WKE

NOV 2017

PROJECT ID: 1030-24-70
WITH: 1030-24-74/77/78, 1033-02-77/78

COUNTY: RACINE

ORDER OF SHEETS

Section No.	1	Title
Section No.	2	Typical Sections and Details (Includes Erosion Control)
Section No.	3	Estimate of Quantities
Section No.	3	Miscellaneous Quantities
Section No.	4	Right of Way Plat
Section No.	5	Plan and Profile
Section No.	6	Standard Detail Drawings
Section No.	7	Sign Plates
~~Section No.~~	~~8~~	~~Structure Plans~~
Section No.	9	Computer Earthwork Data
Section No.	9	Cross Sections

TOTAL SHEETS = 304

36

N

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

N-S FREEWAY STH 11 INTERCHANGE

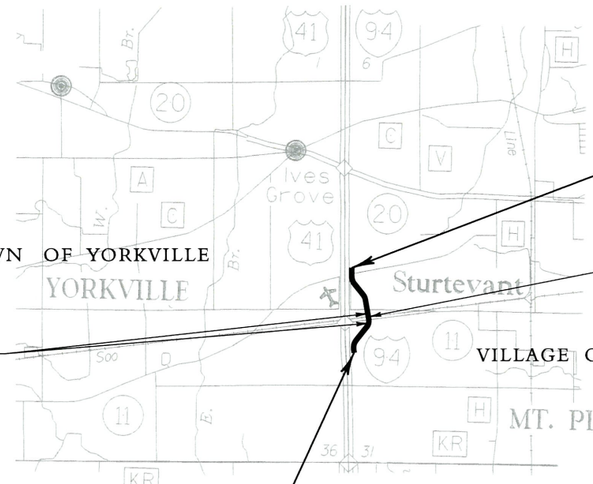
EAST FRONTAGE RD

IH-94

RACINE COUNTY

STATE PROJECT NUMBER
1030-24-70

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1030-24-70	WISC 2017607	1



END PROJECT 1030-24-70
STA. 5791+00

STATION EQUATION
STA. 5754+78.75 EFR =
STA. 3759+53.78 EFR

STA. 3759+31 EFR TO STA. 5755+46 EFR
EXCEPTION TO NET CENTERLINE LENGTH

BEGIN PROJECT 1030-24-70
STA. 3730+00
Y=172283.33
X=594316.50

DESIGN DESIGNATION EAST FRONTAGE RD.

A.A.D.T.	2011	=	1,200
A.A.D.T.	2038	=	1,500
D.H.V.		=	233
D.D.		=	.59 SB/.41 NB
T.		=	9.8%
DESIGN SPEED		=	50 MPH
ESALS		=	744,600

CONVENTIONAL SYMBOLS

PLAN
- CORPORATE LIMITS
- PROPERTY LINE
- LOT LINE
- LIMITED HIGHWAY EASEMENT
- EXISTING RIGHT OF WAY
- PROPOSED OR NEW R/W LINE
- SLOPE INTERCEPT
- REFERENCE LINE
- EXISTING CULVERT
- PROPOSED CULVERT (Box or Pipe)
- COMBUSTIBLE FLUIDS (CAUTION)
- MARSH AREA
- WOODED OR SHRUB AREA

PROFILE
- GRADE LINE
- ORIGINAL GROUND
- MARSH OR ROCK PROFILE (To be noted as such) (ROCK)
- SPECIAL DITCH (LABEL)
- GRADE ELEVATION (95.36)
- CULVERT (Profile View)

UTILITIES
- ELECTRIC (E)
- FIBER OPTIC (FO)
- GAS (G)
- SANITARY SEWER (SAN)
- STORM SEWER (SS)
- TELEPHONE (T)
- WATER (W)
- UTILITY PEDESTAL
- POWER POLE
- TELEPHONE POLE

LAYOUT
SCALE 0 1 MI.

TOTAL NET LENGTH OF CENTERLINE = 1.228 MI.

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), RACINE COUNTY, NAD 1983(97)

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988(91), (NAVD88(91)).

ORIGINAL PLANS PREPARED BY

emcs inc
1300 W. Canal Street, Suite 200
Milwaukee, WI 53233
414.347.1607 Fax 414.347.1347

WISCONSIN PROFESSIONAL ENGINEER
BRIAN J. WILSON
E-34330-6
MILWAUKEE
WI

7/31/2017 (Date) (Signature)

ORIGINAL PLANS PREPARED BY

DAAR ENGINEERING, INC.
www.daarengineering.com
Milwaukee, WI 53212
414-225-9817

WISCONSIN PROFESSIONAL ENGINEER
ANDREW J. SMIEJA
E-31137
WAUKESHA, WI

8/1/17 (Date) (Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	WisDOT/EMCS
Designer	EMCS/DAAR
Project Manager	FRANK PRITZLAFF
Regional Examiner	
Regional Supervisor	WAFA ELQAO

APPROVED FOR THE DEPARTMENT
DATE: 8/1/17 (Signature)

E

UTILITY CONTACTS

AT&T WISCONSIN
MR. MARK EDER
2005 PEWAUKEE RD
WAUKESHA, WI 53188
PHONE: (262) 896-7434
me1754@att.com

CHARTER COMMUNICATIONS
MR. STEVE CRAMER
1320 N. MARTIN LUTHER KING JR. DRIVE
MILWAUKEE, WI 53212
PHONE: (414) 277-4045
CELL: (414) 688-2385
steve.cramer@charter.com
wis.engineering@charter.com

WE ENERGIES - ELECTRIC
SEND ALL CORRESPONDENCE TO:
MR. LATROY BRUMFIELD
333 W. EVERETT STREET - A299
MILWAUKEE, WI 53203
PHONE: (414) 221-5617
latroy.brumfield@we-energies.com

CONSTRUCTION FIELD CONTACT:
MR. DAN TOOMEY
500 S. 116TH STREET
WEST ALLIS, WI 53214
PHONE: (414) 944-5695
dan.toomey@we-energies.com

WE ENERGIES - GAS
SEND ALL CORRESPONDENCE TO:
MR. LATROY BRUMFIELD
333 W. EVERETT STREET - A299
MILWAUKEE, WI 53203
PHONE: (414) 221-5617
latroy.brumfield@we-energies.com

CONSTRUCTION FIELD CONTACT:
MR. DAN TOOMEY
500 S. 116TH STREET
WEST ALLIS, WI 53214
PHONE: (414) 944-5695
dan.toomey@we-energies.com

WISDOT LIGHTING
MR. ERIC PEREA
141 NW BARSTOW STREET
WAUKESHA, WI 53187
PHONE: (262) 574-5422
CELL: (414) 750-0935
eric.perea@dot.wi.gov

WISDOT STOC
MR. JEFFREY MADSON
433 W ST. PAUL AVE. SUITE 300
MILWAUKEE, WI 53203
PHONE: (414) 225-3723
jeffrey.madson@dot.wi.gov

TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN

WIS. STATUTE 182.0175 (1974) REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE.

DIGGERS HOTLINE

Call 811 3 Work Days Before You Dig
or Toll Free (800) 242-8511
Hearing Impaired TDD (800) 542-2289
www.DiggersHotline.com

ORDER OF SECTION 2 DETAIL SHEETS

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
REMOVAL PLAN
PLAN DETAILS
EROSION CONTROL
EXISTING AND PERMANENT SIGNING
PAVEMENT MARKING
TRAFFIC CONTROL
FENCING PLAN
ALIGNMENT PLAN

STATE AGENCIES

WISCONSIN DEPARTMENT OF TRANSPORTATION
MS. LACI KAZAN - ENVIRONMENTAL ANALYST AND REVIEW SPECIALIST
141 NW BARSTOW STREET
WAUKESHA, WI 53187-0798
CELL: (414) 322-1429
laci.kazan@dot.wi.gov

WISCONSIN DEPARTMENT OF TRANSPORTATION
MR. GREG BERRY - UTILITY COORDINATOR
141 NW BARSTOW STREET
WAUKESHA, WI 53187-0798
CELL: (414) 750-7828
gregory.berry@dot.wi.gov

WISCONSIN DEPARTMENT OF NATURAL RESOURCES
KRISTINA BETZOLD
DNR SOUTHEAST REGION HQ
2300 N. DR. MARTIN LUTHER KING JR. DR.
MILWAUKEE, WI 53212
PHONE: (414) 263-8517
kristina.betzold@wisconsin.gov

WISCONSIN DEPARTMENT OF TRANSPORTATION
MR. FRANK PRITZLAFF - PROJECT MANAGER
141 NW BARSTOW STREET
WAUKESHA, WI 53187-0798
PHONE: (262) 548-5683
frank.pritzlaff@dot.wi.gov

SOUTHEASTERN WISCONSIN REGIONAL PLANNING COMMISSION
MR. JOHN WASHBURN
W239 N1812 ROCKWOOD DRIVE
P.O. BOX 1607
WAUKESHA, WI 53187-1607
PHONE: (262) 953-4295
CELL: (414) 218-2866
jwashburn@sewrpc.org

OTHER AGENCIES

CANADIAN PACIFIC RAILWAY CO.
MR. JIM KRIEGER
501 MARQUETTE AVENUE, SUITE 635
MINNEAPOLIS, MN 55402
PHONE: (612) 904-5994

SYLVANIA AIRPORT
AERIS AVIATION, LLC.
2624 SOUTH SYLVANIA AVENUE
STURTEVANT, WI 53177
PHONE: (888) 882-3747
fly@aerosaviation.com

VILLAGE OF MOUNT PLEASANT
MR. MARK BENISH
8700 CAMPUS DRIVE
MOUNT PLEASANT, WI 53406
PHONE: (262) 664-7844
mbenish@mtpleasantwi.gov

TOWN OF YORKVILLE
MR. MICHAEL MCKINNEY
925 15TH AVENUE
UNION GROVE, WI 53182
PHONE: (262) 878-2123
michael@townofyorkville.com

RACINE COUNTY DPW
MR. NATHAN PLUNKETT
14200 WASHINGTON AVE
STURTEVANT, WI 53177
PHONE: (262) 886-8442
nathan.plunkett@racinecounty.com

GENERAL NOTES

NO TREES OR SHRUBS SHALL BE REMOVED WITHOUT APPROVAL OF THE ENGINEER.

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE AND AFFECTED UTILITIES PRIOR TO THE START OF WORK. ANY LOCAL MUNICIPAL UTILITY WHICH IS NOT A MEMBER OF THE DIGGERS HOTLINE MUST BE CONTACTED SEPARATELY.

ALL HOLES OR OPENINGS BELOW SUBGRADE RESULTING FROM ABANDONMENT OR REMOVAL OF EXISTING STRUCTURES SHALL BE FILLED WITH GRANULAR BACKFILL.

WHEN THE QUANTITY OF HMA OR BASE AGGREGATE IS MEASURED FOR PAYMENT BY THE TON, THE DEPTH OR THICKNESS OF THE LAYER SHOWN ON THE PLAN IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.

INLET AND DISCHARGE ELEVATIONS FOR DRAINAGE STRUCTURES SHOWN ON THE PLAN MAY BE ADJUSTED BY THE ENGINEER TO FIT FIELD CONDITIONS.

CURB AND GUTTER GRADES ARE GIVEN TO THE FLANGE. CURB AND GUTTER RADII ARE MEASURED TO THE FLANGE.

EXISTING DRIVEWAYS AND FIELD ENTRANCES SHALL BE RESTORED IN KIND AS DIRECTED BY THE ENGINEER IN THE FIELD AND AT THE LOCATION DETERMINED BY THE ENGINEER.

BROKEN CONCRETE CONTAINING RE-BAR SHALL NOT BE USED AS RIPRAP.

CROSS SECTIONS SHOWN INCLUDE THE THICKNESS OF TOPSOIL WHERE REQUIRED. TOPSOIL SHALL BE REPLACED WITH 4-INCH TYPICAL DEPTH.

TRAFFIC CONTROL DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

USE EROSION MAT URBAN CLASS I TYPE B ADJACENT TO DISTURBED AREAS NEXT TO WETLANDS. DO NOT INSTALL EROSION MAT URBAN CLASS I TYPE B IN WATER.

PRIOR TO ORDERING DRAINAGE PIPES AND STRUCTURES, THE CONTRACTOR SHALL VERIFY RELATED DRAINAGE INFORMATION IN THE PLANS AND PROVIDE DOCUMENTATION TO ENGINEER IN ACCORDANCE WITH THE SPECIFICATIONS.

CONTRACTOR MUST CONTACT THE PROJECT ENGINEER AND THE RACINE COUNTY SURVEYOR, JOHN WASHBURN, AND RACINE COUNTY PUBLIC WORKS DIRECTOR, JULIE ANDERSON, AT LEAST TWO WEEKS PRIOR TO WORK NEAR ANY PUBLIC SURVEY MONUMENT.

ALL ENCROACHMENTS SHOWN IN THE PLAN ARE TO BE REMOVED BY THE PROPERTY OWNER PRIOR TO CONSTRUCTION, UNLESS OTHERWISE NOTED.

THE LOCATIONS OF SELECT SUBBASE AND GEOGRID TYPE SR ARE DEPENDENT ON FIELD CONDITIONS DURING GRADING OPERATIONS. GEOGRID REINFORCEMENT AND FILL MATERIAL SHALL NOT BE PLACED UNTIL AUTHORIZED BY THE ENGINEER OR SOILS ENGINEER.

CONCRETE MEDIAN SLOPED NOSE SHALL BE CONSTRUCTED FOR ALL MEDIAN OPENINGS AT INTERSECTIONS WITH CURB & GUTTER.

FERTILIZER SHALL NOT BE USED WITHIN 20 FEET OF NAVIGABLE WATERWAYS OR WETLANDS.

ASPHALT AND CONCRETE SURFACES INCLUDING DRIVEWAYS AND/OR PARKING LOTS SHALL BE SAWCUT AT THE MATCHLINE AS SHOWN ON THE PLAN DETAILS OR AS DIRECTED BY THE ENGINEER.

STATIONING, DISTANCES AND OFFSETS FOR SIGNS SHOWN ON THE PLANS ARE APPROXIMATE AND THE LOCATIONS OF SIGNS ARE TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

LOCATIONS OF DRAINTILE ON THE PLAN ARE BASED ON AS-BUILT OR PROPERTY OWNER INTERVIEWS. DRAINTILE EXPLORATION ITEM IS TO BE USED TO VERIFY THE EXACT SIZE AND LOCATION.

ADDRESS NUMBER SIGNS WILL BE RELOCATED BY LOCAL MUNICIPALITIES. CONTACT MUNICIPALITY TWO WEEKS PRIOR TO BEGINNING WORK WHICH MAY DISTURB ADDRESS NUMBER SIGNS.

A CONVERSION FACTOR OF 2.0 TONS/CY IS USED TO ESTIMATE QUANTITIES FOR BASE AGGREGATE DENSE.

A CONVERSION FACTOR OF 1.7 TONS/CY IS USED TO ESTIMATE QUANTITIES FOR BREAKER RUN.

A CONVERSION FACTOR OF 1.9 TONS/CY IS USED TO ESTIMATE QUANTITIES FOR SELECT CRUSHED MATERIAL.

A CONVERSION FACTOR OF 115 LB/SY/IN IS USED TO ESTIMATE QUANTITIES FOR HMA PAVEMENT.

FOR SECTION CORNER REPLACEMENT CONTACT JOHN WASHBURN WITH SEWRPC AT 414-218-2866 OR JWASHBURN@SEWRPC.ORG. CONTACT SHALL BE MADE A MINIMUM OF TWO WEEKS BEFORE STARTING CONSTRUCTION OPERATIONS.

ALL TYPES OF HMA PAVEMENT SHALL BE CONSTRUCTED WITH THE FOLLOWING LAYERS AND GRADATIONS:

	PAVEMENT TYPE	TOTAL LAYER PAVEMENT THICKNESS	LAYERS
(AP03)	4 LT 58-28 S 3 LT 58-28 S	5½"	2¼" UPPER LAYER 3¼" LOWER LAYER

STANDARD ABBREVIATIONS

AECPRC	APRON ENDWALL CULVERT PIPE REINFORCED CONCRETE
AECPRCHE	APRON ENDWALL CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL
AECPSS	APRON ENDWALL CULVERT PIPE SLOPED SECTION
AEW	APRON END WALL
AGG	AGGREGATE
ASPH	ASPHALT
BAD	BASE AGGREGATE DENSE
B/C	BACK OF CURB
BM	BENCH MARK
C&G	CURB AND GUTTER
C/L	CENTER OR CONSTRUCTION LINE
CONC	CONCRETE
CP	CULVERT PIPE
CPCM	CULVERT PIPE CORRUGATED METAL
CPRC	CULVERT PIPE REINFORCED CONCRETE
CPRCHE	CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL
CSD	CONCRETE SURFACE DRAIN
CY	CUBIC-YARD
D	DEGREE OF CURVE
△	DELTA
DISCH	DISCHARGE
DWY	DRIVEWAY
EBS	EXCAVATION BELOW SUBGRADE
EFR	EAST FRONTAGE ROAD
EL	ELEVATION
FE	FIELD ENTRANCE
HMA	HOT MIX ASPHALT
INV	INVERT
L	LENGTH OF CURVE
LHF	LEFT HAND FORWARD
LT	LEFT
MID	MIDDLE OF RADIUS
MIN	MINIMUM
M/L	MATCHLINE
NB	NORTHBOUND
NC	NORMAL CROWN
NEFR	NORTHEAST FRONTAGE ROAD
PAVT	PAVEMENT
PC	POINT-OF CURVE
PCC	POINT OF COMPOUND CURVE
PE	PRIVATE ENTRANCE
PGL	PROFILE GRADE LINE
PI	POINT OF INTERSECTION
PLE	PERMANENT LIMITED EASEMENT
PT	POINT OF TANGENT
R	RADIUS OF CURVE
R/L	REFERENCE LINE
R/W	RIGHT OF WAY
RC	REVERSE CROWN
REQ'D	REQUIRED
RHF	RIGHT HAND FORWARD
RO	RUN OFF LENGTH
RT	RIGHT
SALV	SALVAGED
SB	SOUTHBOUND
SDD	STANDARD DETAIL DRAWING
SE	SUPER ELEVATION
SF	SQUARE FOOT
SSPRC	STORM SEWER PIPE REINFORCED CONCRETE
SSPRCHE	STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL
STA	STATION
SY	SQUARE YARD
T	TANGENT LENGTH
TLE	TEMPORARY LIMITED EASEMENT
TYP	TYPICAL
VCL	VERTICAL CURVE LENGTH
VPC	POINT OF VERTICAL CURVE
VPI	POINT OF VERTICAL INTERSECTION
VPT	POINT OF VERTICAL TANGENT
WFR	WEST FRONTAGE ROAD

2

2

END PROJECT
I.D. 1030-24-70
STA. 5791+00
= MATCH PROJECT
I.D. 1033-02-77

WEST FRONTAGE ROAD

LOUIS SORENSON ROAD

END CONSTRUCTION
STA. 58L+15 = MATCH EXISTING

TOWN OF
YORKVILLE

SYLVANIA
AIRPORT

VILLAGE OF
MOUNT PLEASANT

N

EXISTING EAST FRONTAGE ROAD
TO BE OBLITERATED STA 7764+30
TO STA 7781+25

EAST FRONTAGE RD

PRIVATE DRIVEWAY A
(GRADING PREVIOUSLY COMPLETED BY OTHERS
UNDER PROJECT ID 1030-24-76)

SWALE 4 PREVIOUSLY CONSTRUCTED BY OTHERS UNDER PROJECT ID 1030-24-76, FRONTAGE ROAD GRADING

STA. 5762+15.17 NEFR =
STA. 59+50.70 58TH ROAD

58TH ROAD

58TH ROAD

SYLVANIA AVE

BEGIN CONSTRUCTION
I.D. 1030-24-70
STA. 57+72
= MATCH PROJECT
I.D. 1030-24-74

END CONSTRUCTION
STA. 62+00 = MATCH EXISTING

SOO LINE RAILROAD TRACKS
HAVE BEEN REMOVED

CONSTRUCT SWALE 3

SOO LINE RAILROAD CO. D.B.A CANADIAN PACIFIC

STH 11

BEGIN CONSTRUCTION
STA. 5755+46 = MATCH EXISTING

END CONSTRUCTION
STA. 3759+32 = MATCH EXISTING

WEST FRONTAGE RD

IH-94

PARK AND RIDE LOT

PRIVATE DRIVEWAY B

EAST FRONTAGE RD

TOWN OF
YORKVILLE

VILLAGE OF
MOUNT PLEASANT

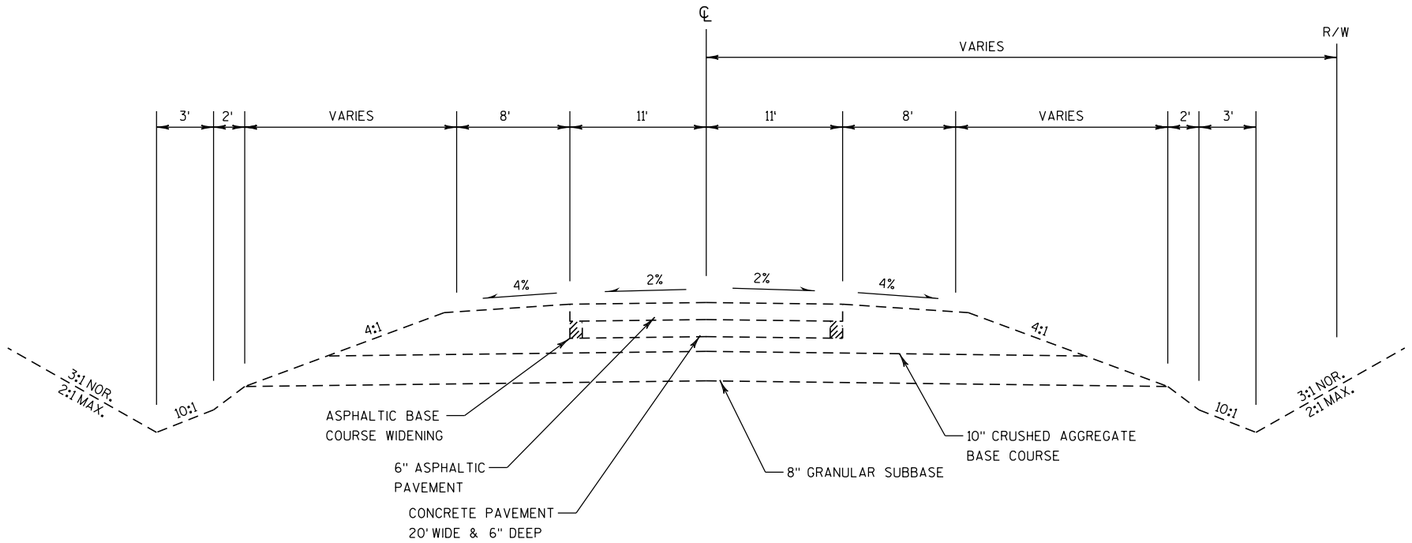
BEGIN PROJECT
I.D. 1030-24-70
STA. 3730+00
= MATCH PROJECT
I.D. 1030-24-77

NOTE: EARTHWORK, GRADING, DRAINAGE, AND RESTORATION WORK PREVIOUSLY COMPLETED BY OTHERS UNDER PROJECT ID 1030-24-76, FRONTAGE ROAD GRADING FOR THE FOLLOWING LOCATIONS:

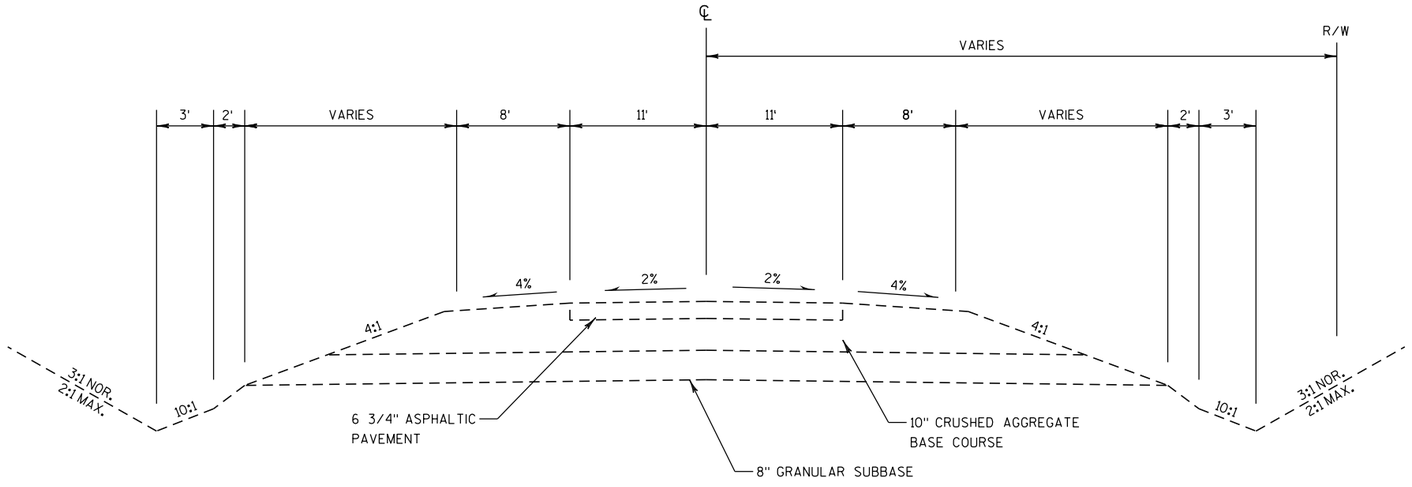
EAST FRONTAGE ROAD: STA. 5763+00 TO STA. 5779+00

PRIVATE DRIVEWAY A: STA. 15+01 TO STA. 20+00

PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	PROJECT OVERVIEW: EAST FRONTAGE ROAD	SHEET 4	E



TYPICAL EXISTING SECTION
EAST FRONTAGE ROAD
STA. 7764+30 TO STA. 7781+25
STA. 5781+50 TO STA. 5791+00

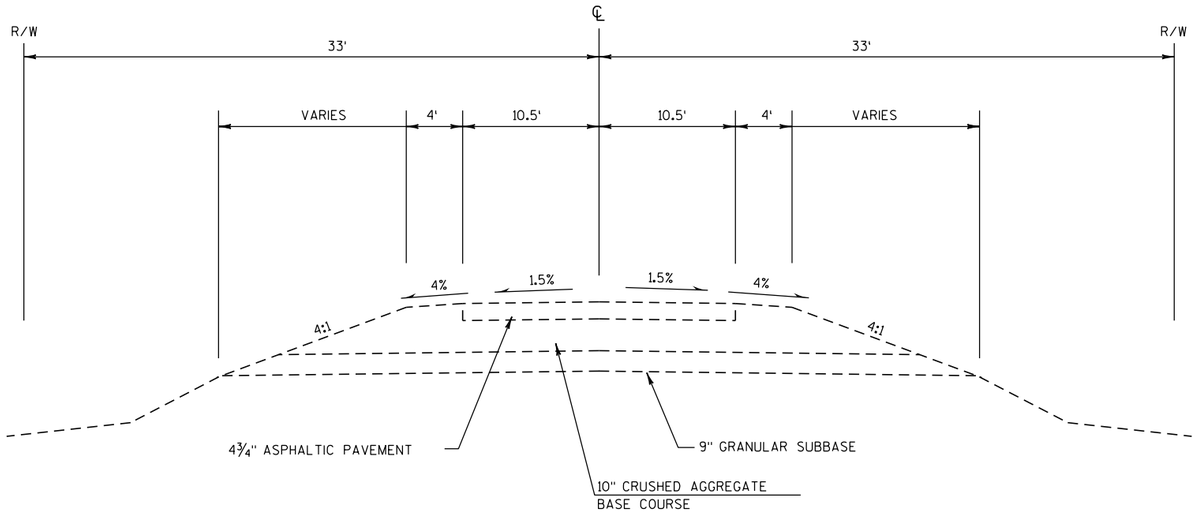


TYPICAL EXISTING SECTION
EAST FRONTAGE ROAD
STA. 3730+00 TO STA. 5762+00

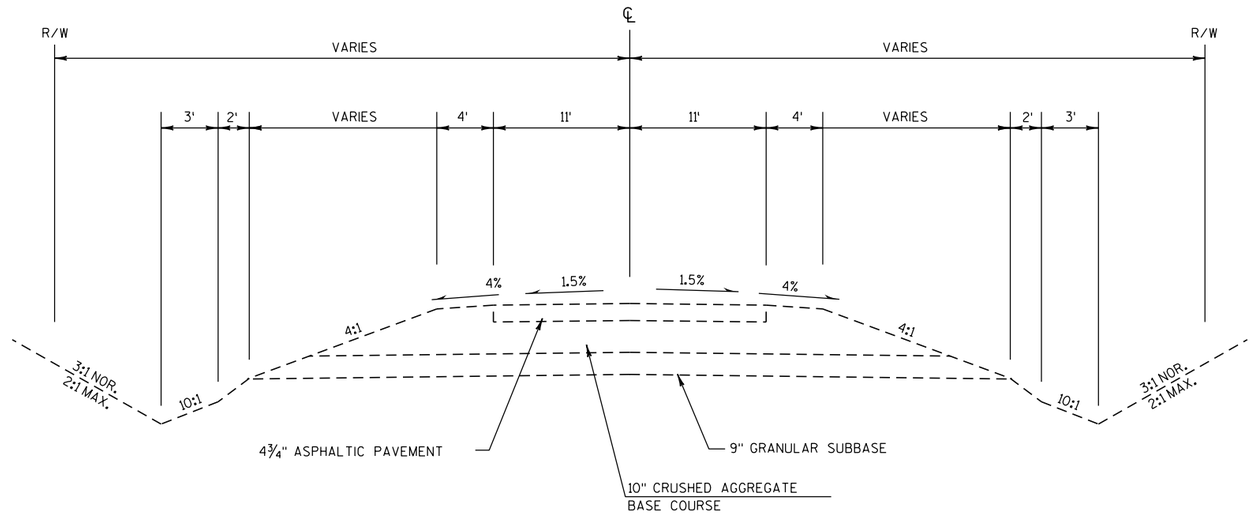
NOTE: EARTHWORK, GRADING, DRAINAGE, AND RESTORATION
FROM STATION 5763+00 TO STATION 5779+00 COMPLETED
BY OTHERS UNDER PROJECT ID 1030-24-76, FRONTAGE ROAD GRADING

PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	TYPICAL SECTIONS: EXISTING EAST FRONTAGE ROAD	SHEET 5	E

2



TYPICAL EXISTING SECTION
LOUIS SORENSON ROAD



TYPICAL EXISTING SECTION
58TH ROAD

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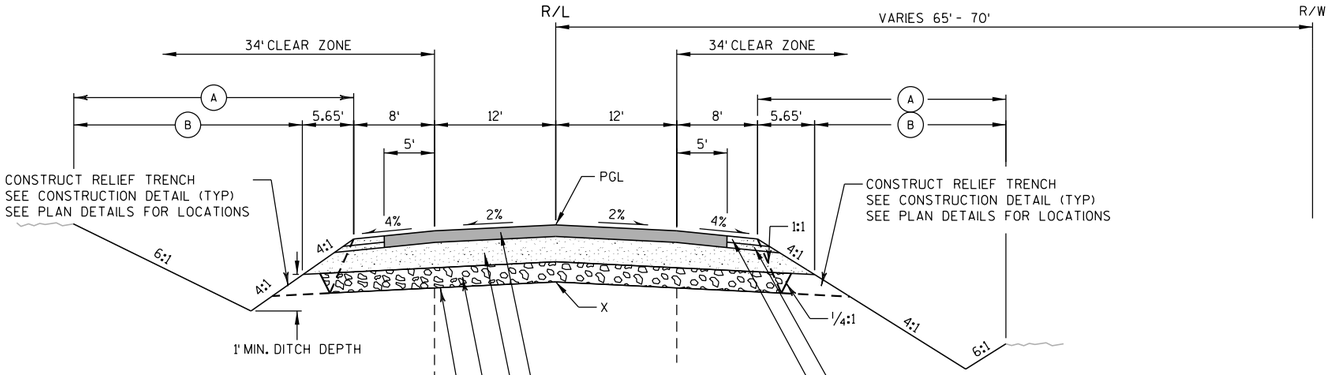
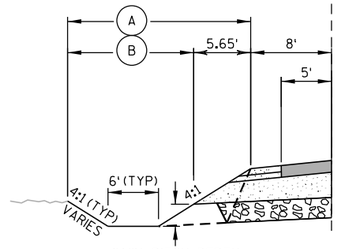
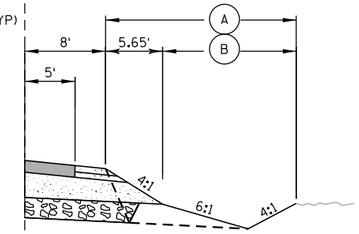
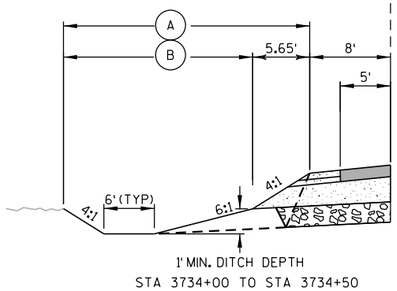




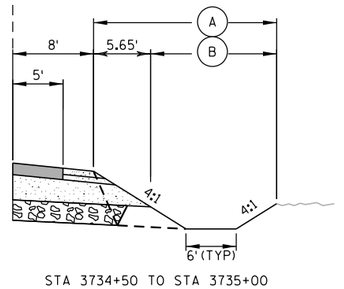
STA 3730+00 TO STA 3734+00



STA 3734+00 TO STA 3734+50



STA 3734+00 TO STA 3734+50



STA 3734+50 TO STA 3735+00

NOTE:

PGL = POINT REFERRED TO ON PROFILE
AND PIVOT POINT FOR SUPERELEVATION
X = POINT REFERRED TO ON CROSS SECTION

LEGEND:

(A) SEEDING MIXTURE NO. 30, SPECIAL* AND FERTILIZER TYPE B, SPECIAL

(B) 4" SALVAGED TOPSOIL AND MULCHING OR EMAT

*EXCEPT USE SEEDING MIXTURE NO. 40 AT AREAS DESIGNATED IN THE EROSION CONTROL PLANS

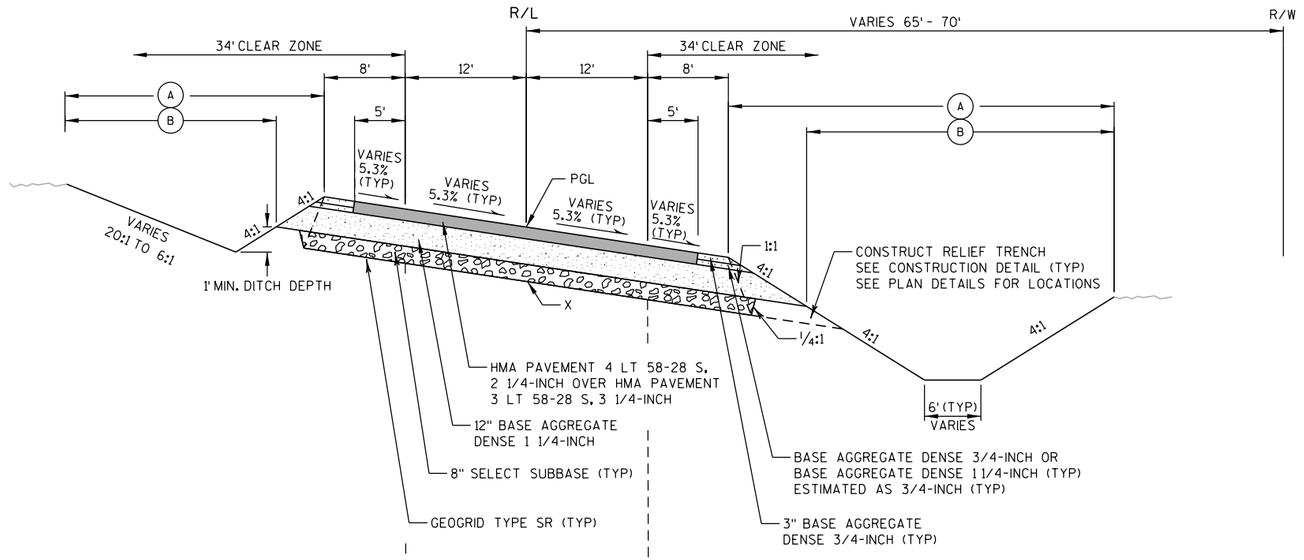
TYPICAL FINISHED SECTION

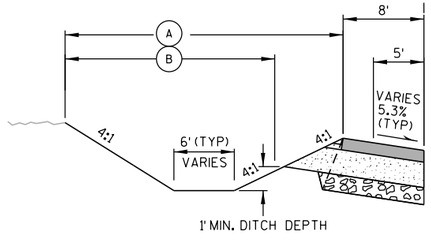
EAST FRONTAGE ROAD

STA 3730+00 TO STA 3735+00
STA 3748+00 TO STA 3749+50

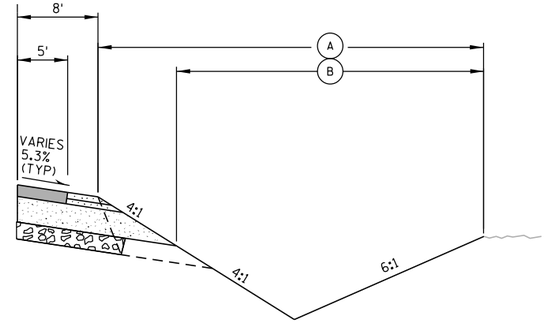
PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	TYPICAL SECTIONS: EAST FRONTAGE ROAD	SHEET 7	E

2





STA 3742+50 TO STA 3744+50



STA 3746+50 TO STA 3748+00

NOTE:

PGL = POINT REFERRED TO ON PROFILE
AND PIVOT POINT FOR SUPERELEVATION
X = POINT REFERRED TO ON CROSS SECTION

LEGEND:

(A) SEEDING MIXTURE NO. 30, SPECIAL* AND FERTILIZER TYPE B, SPECIAL

(B) 4" SALVAGED TOPSOIL AND MULCHING OR EMAT

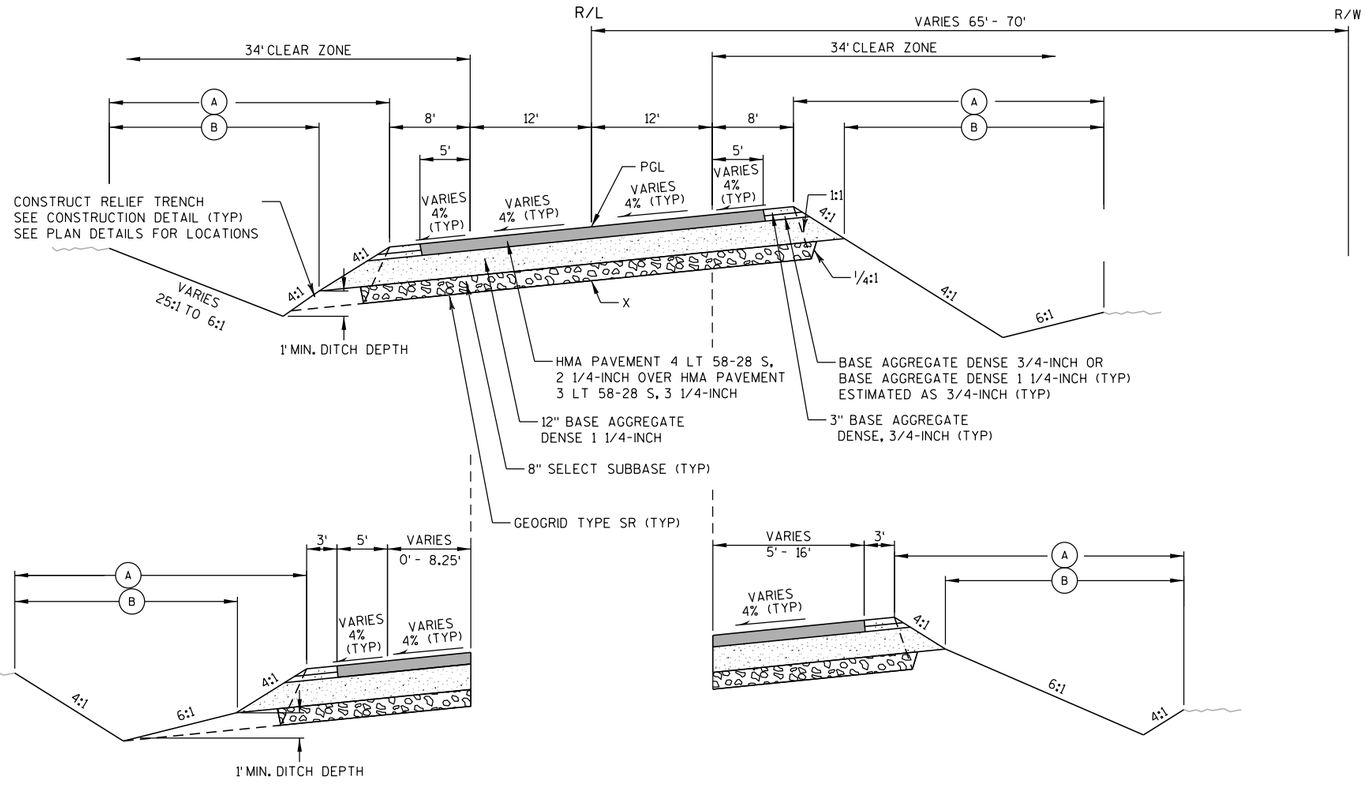
*EXCEPT USE SEEDING MIXTURE NO. 40 AT AREAS DESIGNATED IN THE EROSION CONTROL PLANS

TYPICAL FINISHED SECTION

SUPERELEVATED SECTION EAST FRONTAGE ROAD

STA 3735+00 TO STA 3748+00

2



STA 3754+86 TO STA 3756+50

STA 3754+00 TO STA 3756+25

TYPICAL FINISHED SECTION

SUPERELEVATED SECTION
EAST FRONTAGE ROAD

STA 3749+50 TO STA 3756+50

NOTE:

PGL = POINT REFERRED TO ON PROFILE AND PIVOT POINT FOR SUPERELEVATION
X = POINT REFERRED TO ON CROSS SECTION

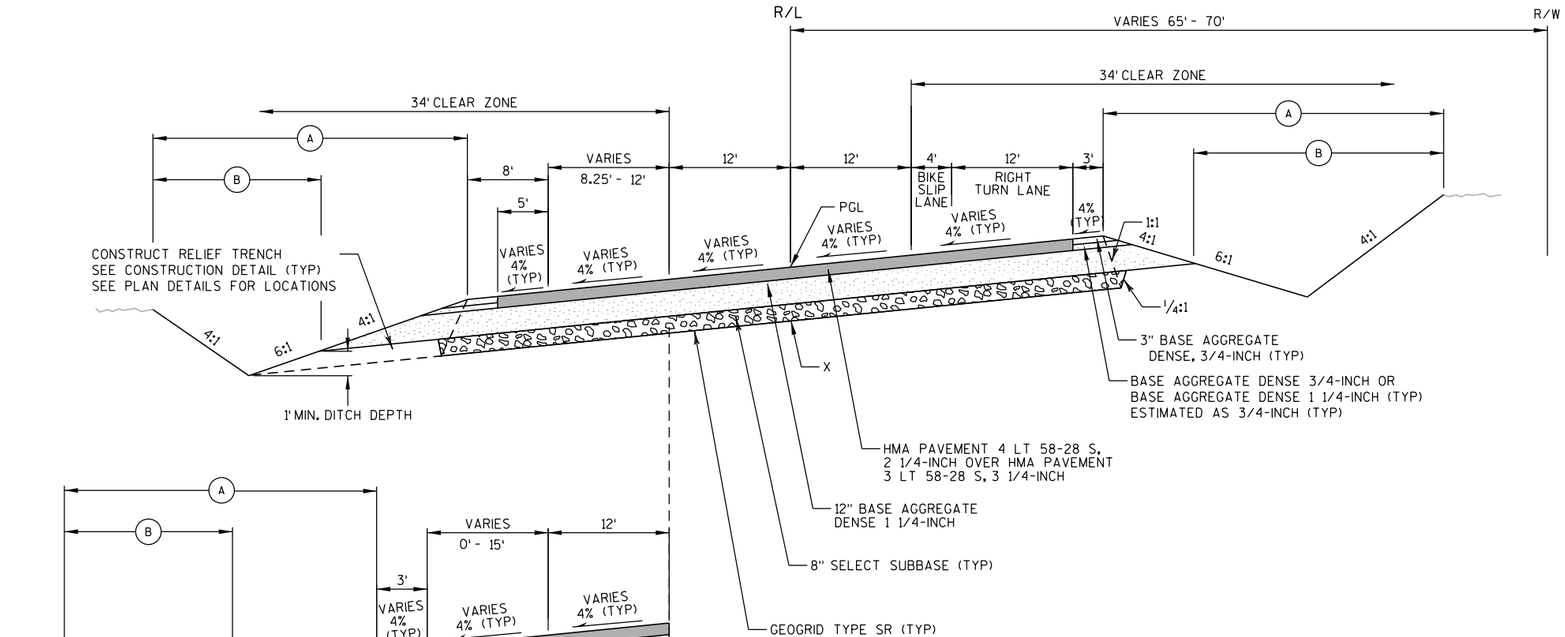
LEGEND:

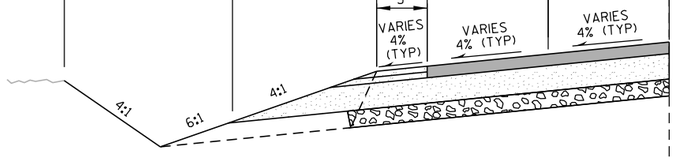
(A) SEEDING MIXTURE NO. 30, SPECIAL* AND FERTILIZER TYPE B, SPECIAL

(B) 4" SALVAGED TOPSOIL AND MULCHING OR EMAT

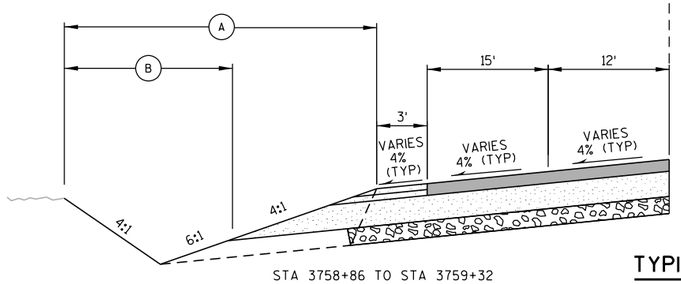
*EXCEPT USE SEEDING MIXTURE NO. 40 AT AREAS DESIGNATED IN THE EROSION CONTROL PLANS

2





STA 3757+29 TO STA 3758+86



STA 3758+86 TO STA 3759+32

TYPICAL FINISHED SECTION

SUPERELEVATED SECTION
EAST FRONTAGE ROAD

STA 3756+50 TO STA 3759+32

NOTE:

PGL = POINT REFERRED TO ON PROFILE
AND PIVOT POINT FOR SUPERELEVATION
X = POINT REFERRED TO ON CROSS SECTION

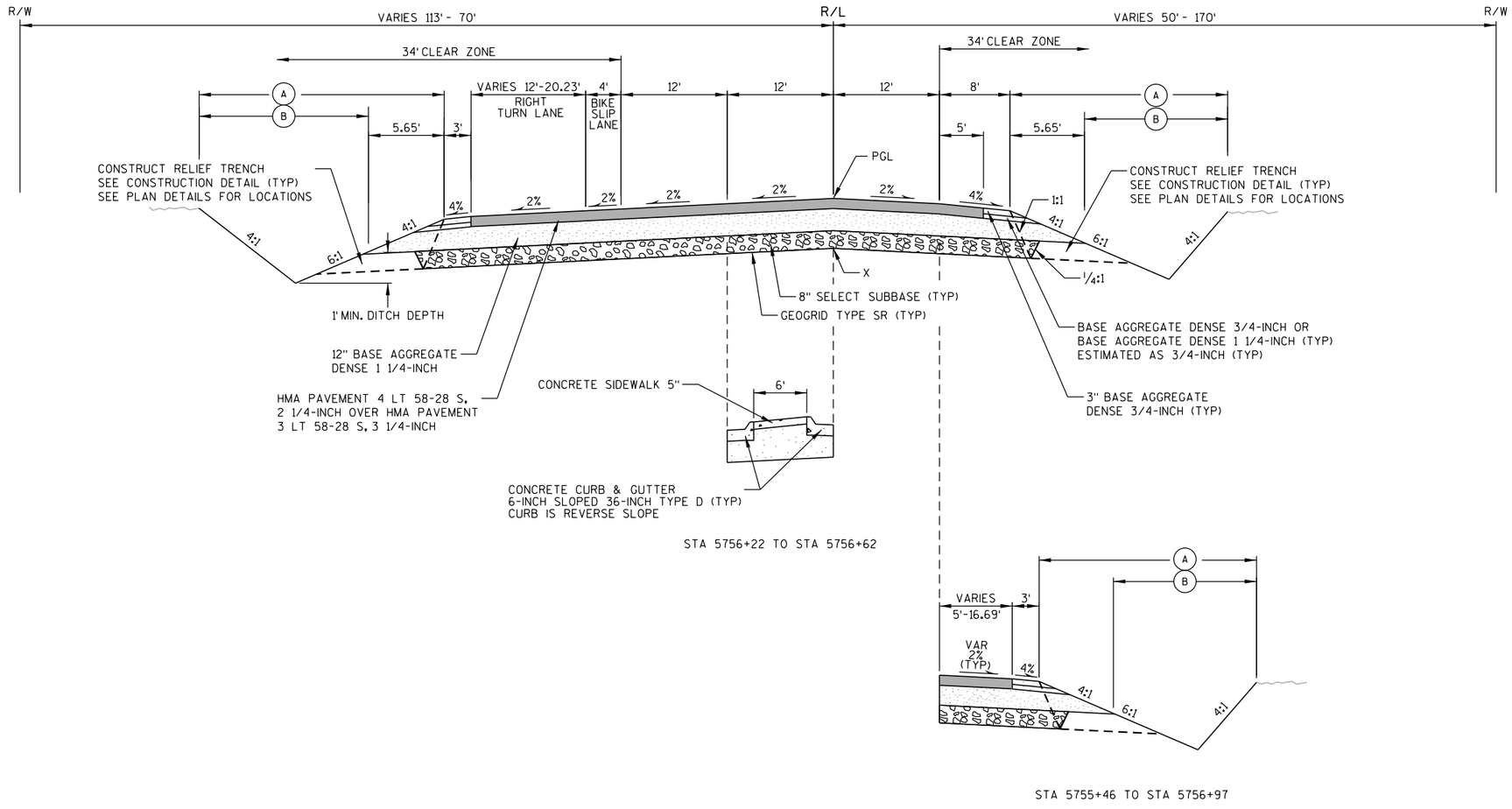
LEGEND:

(A) SEEDING MIXTURE NO. 30, SPECIAL* AND FERTILIZER TYPE B, SPECIAL

(B) 4" SALVAGED TOPSOIL AND MULCHING

*EXCEPT USE SEEDING MIXTURE NO. 40 AT AREAS DESIGNATED IN THE EROSION CONTROL PLANS

PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	TYPICAL SECTIONS: EAST FRONTAGE ROAD	SHEET 10	E



STA 5756+22 TO STA 5756+62

STA 5755+46 TO STA 5756+97

TYPICAL FINISHED SECTION
EAST FRONTAGE ROAD
STA 5755+46 TO STA 5757+00

NOTE:

PGL = POINT REFERRED TO ON PROFILE
AND PIVOT POINT FOR SUPERELEVATION
X = POINT REFERRED TO ON CROSS SECTION

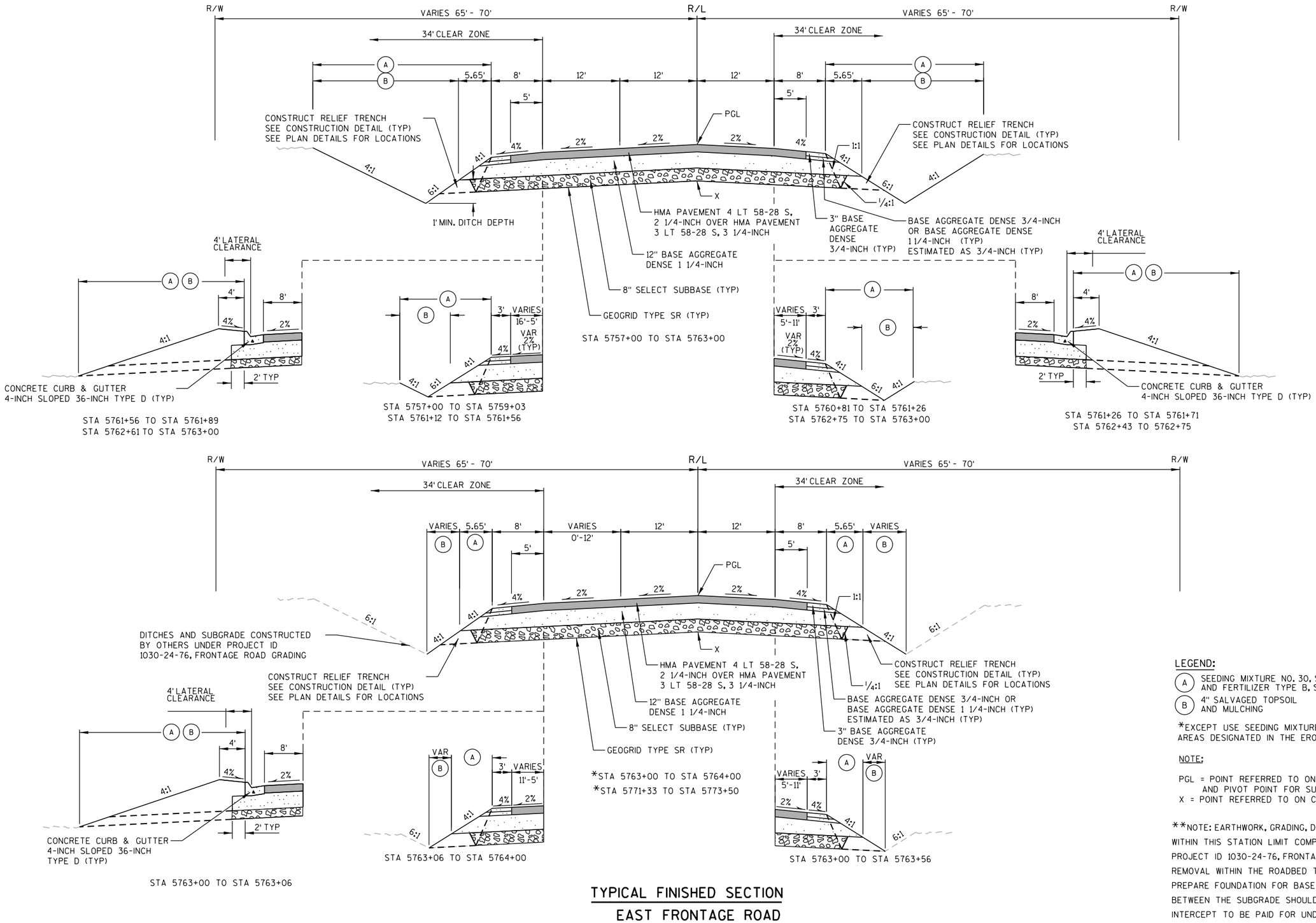
LEGEND:

(A) SEEDING MIXTURE NO. 30, SPECIAL* AND FERTILIZER TYPE B, SPECIAL

(B) 4" SALVAGED TOPSOIL AND MULCHING

*EXCEPT USE SEEDING MIXTURE NO. 40 AT AREAS DESIGNATED IN THE EROSION CONTROL PLANS

PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	TYPICAL SECTIONS: EAST FRONTAGE ROAD	SHEET 11	E



TYPICAL FINISHED SECTION
EAST FRONTAGE ROAD

LEGEND:

(A) SEEDING MIXTURE NO. 30, SPECIAL* AND FERTILIZER TYPE B, SPECIAL

(B) 4" SALVAGED TOPSOIL AND MULCHING

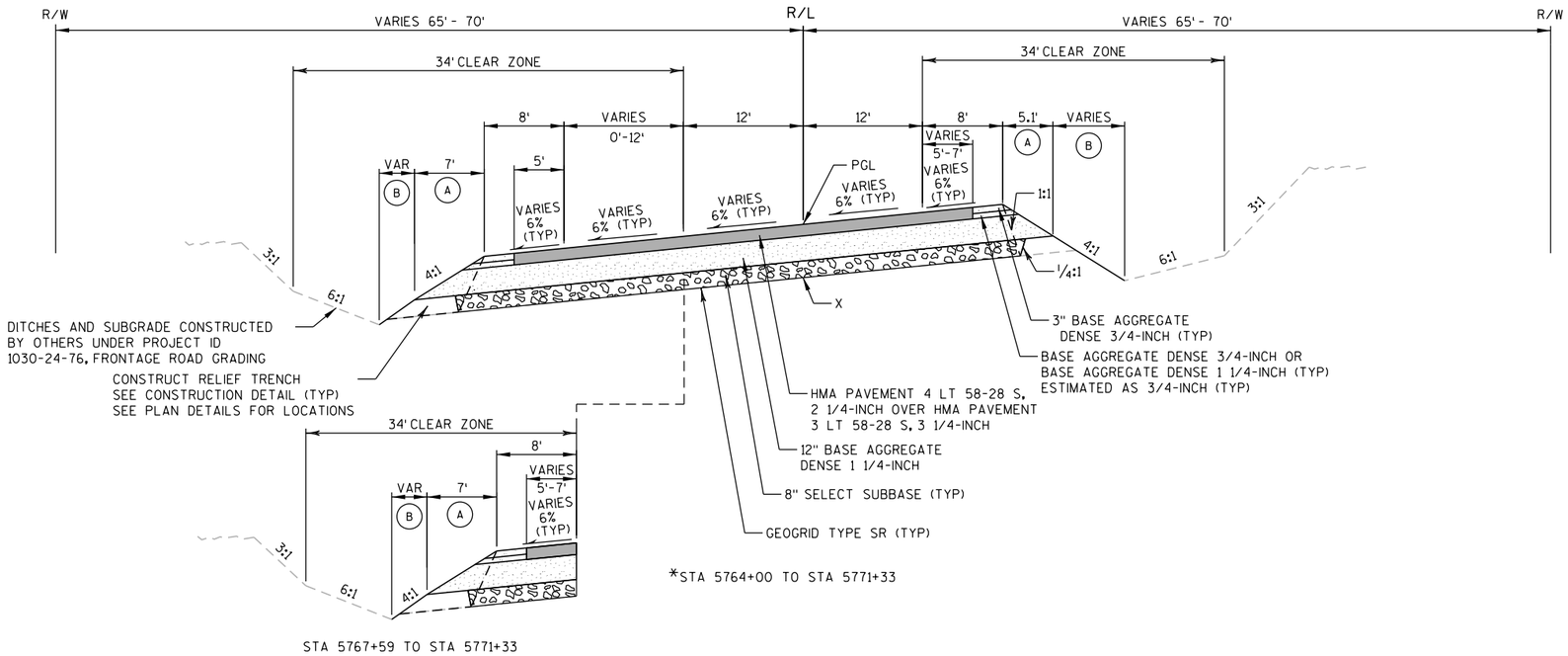
*EXCEPT USE SEEDING MIXTURE NO. 40 AT AREAS DESIGNATED IN THE EROSION CONTROL PLANS

NOTE:

PGL = POINT REFERRED TO ON PROFILE AND PIVOT POINT FOR SUPERELEVATION
X = POINT REFERRED TO ON CROSS SECTION

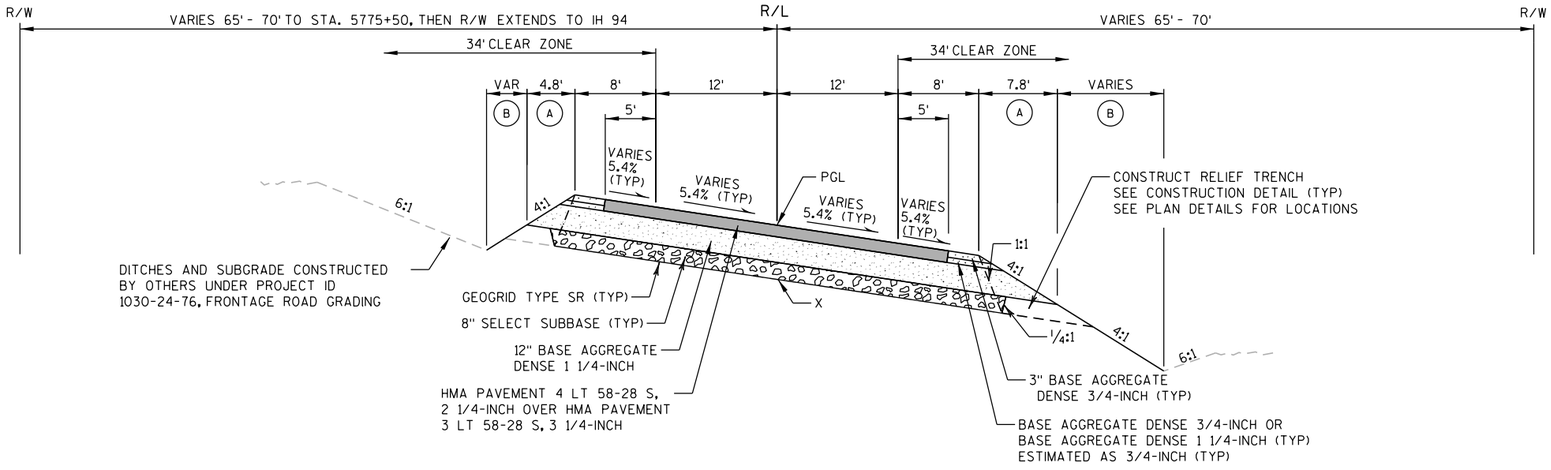
**NOTE: EARTHWORK, GRADING, DRAINAGE, AND RESTORATION WITHIN THIS STATION LIMIT COMPLETED BY OTHERS UNDER PROJECT ID 1030-24-76, FRONTAGE ROAD GRADING. TOPSOIL REMOVAL WITHIN THE ROADBED TO BE PAID FOR UNDER ITEM PREPARE FOUNDATION FOR BASE AGGREGATE. TOPSOIL REMOVAL BETWEEN THE SUBGRADE SHOULDER POINT AND THE SLOPE INTERCEPT TO BE PAID FOR UNDER ITEM TOPSOIL SPECIAL.

PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	TYPICAL SECTIONS: EAST FRONTAGE ROAD	SHEET 12	E



*STA 5764+00 TO STA 5771+33

STA 5767+59 TO STA 5771+33



*STA 5773+50 TO STA 5779+00

LEGEND:

(A) SEEDING MIXTURE NO. 30, SPECIAL* AND FERTILIZER TYPE B, SPECIAL

(B) 4" SALVAGED TOPSOIL AND MULCHING

*EXCEPT USE SEEDING MIXTURE NO. 40 AT AREAS DESIGNATED IN THE EROSION CONTROL PLANS

NOTE:

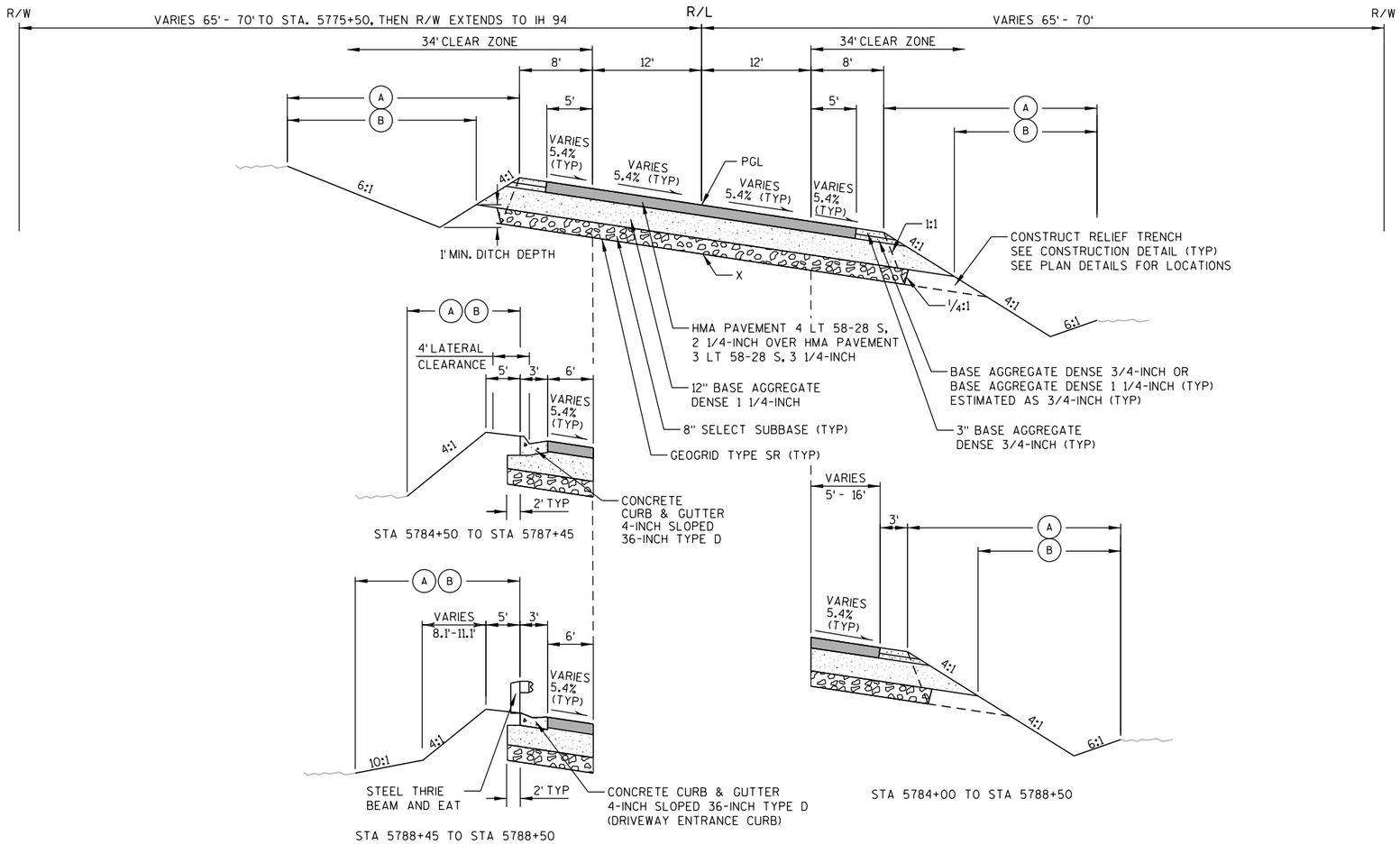
PGL = POINT REFERRED TO ON PROFILE AND PIVOT POINT FOR SUPERELEVATION
X = POINT REFERRED TO ON CROSS SECTION

TYPICAL FINISHED SECTION
SUPERELEVATED SECTION
EAST FRONTAGE ROAD

**NOTE: EARTHWORK, GRADING, DRAINAGE, AND RESTORATION WITHIN THIS STATION LIMIT COMPLETED BY OTHERS UNDER PROJECT ID 1030-24-76, FRONTAGE ROAD GRADING. TOPSOIL REMOVAL WITHIN THE ROADBED TO BE PAID FOR UNDER ITEM PREPARE FOUNDATION FOR BASE AGGREGATE. TOPSOIL REMOVAL BETWEEN THE SUBGRADE SHOULDER POINT AND THE SLOPE INTERCEPT TO BE PAID FOR UNDER ITEM TOPSOIL SPECIAL.

PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	TYPICAL SECTIONS: EAST FRONTAGE ROAD	SHEET 13	E

2



NOTE:

PGL = POINT REFERRED TO ON PROFILE
AND PIVOT POINT FOR SUPERELEVATION
X = POINT REFERRED TO ON CROSS SECTION

LEGEND:

(A) SEEDING MIXTURE NO. 30, SPECIAL* AND FERTILIZER TYPE B, SPECIAL

(B) 4" SALVAGED TOPSOIL AND MULCHING

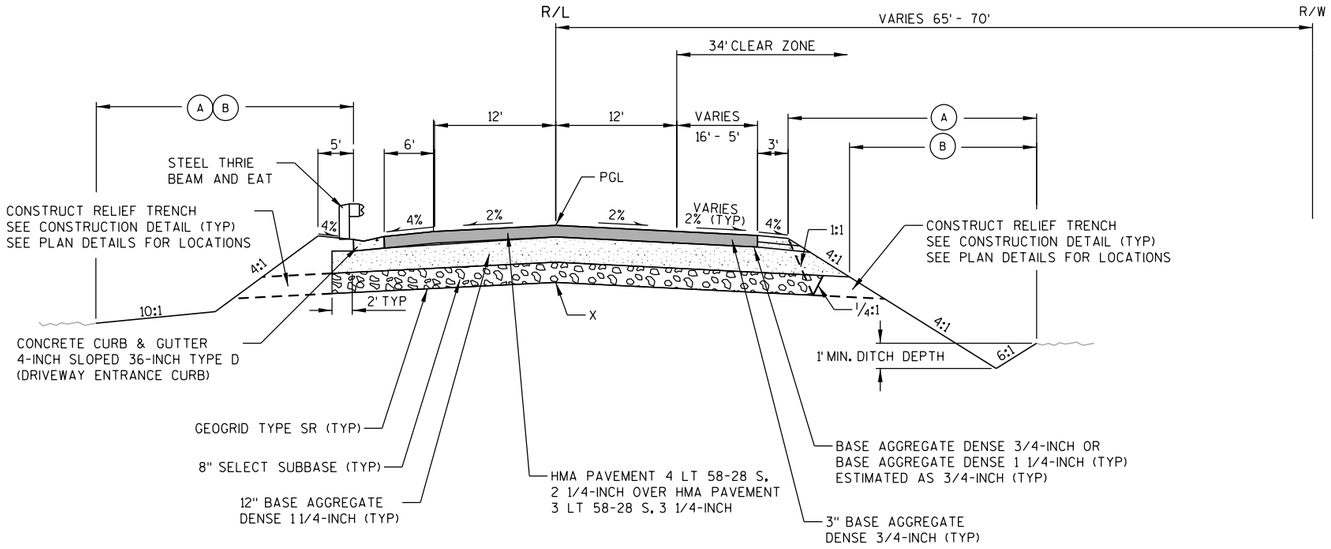
*EXCEPT USE SEEDING MIXTURE NO. 40 AT AREAS DESIGNATED IN THE EROSION CONTROL PLANS

TYPICAL FINISHED SECTION

SUPERELEVATED SECTION
EAST FRONTAGE ROAD

STA 5779+00 TO 5788+50

2



TYPICAL FINISHED SECTION

EAST FRONTAGE ROAD

STA 5788+50 TO 5791+00

NOTE:

PGL = POINT REFERRED TO ON PROFILE
AND PIVOT POINT FOR SUPERELEVATION
X = POINT REFERRED TO ON CROSS SECTION

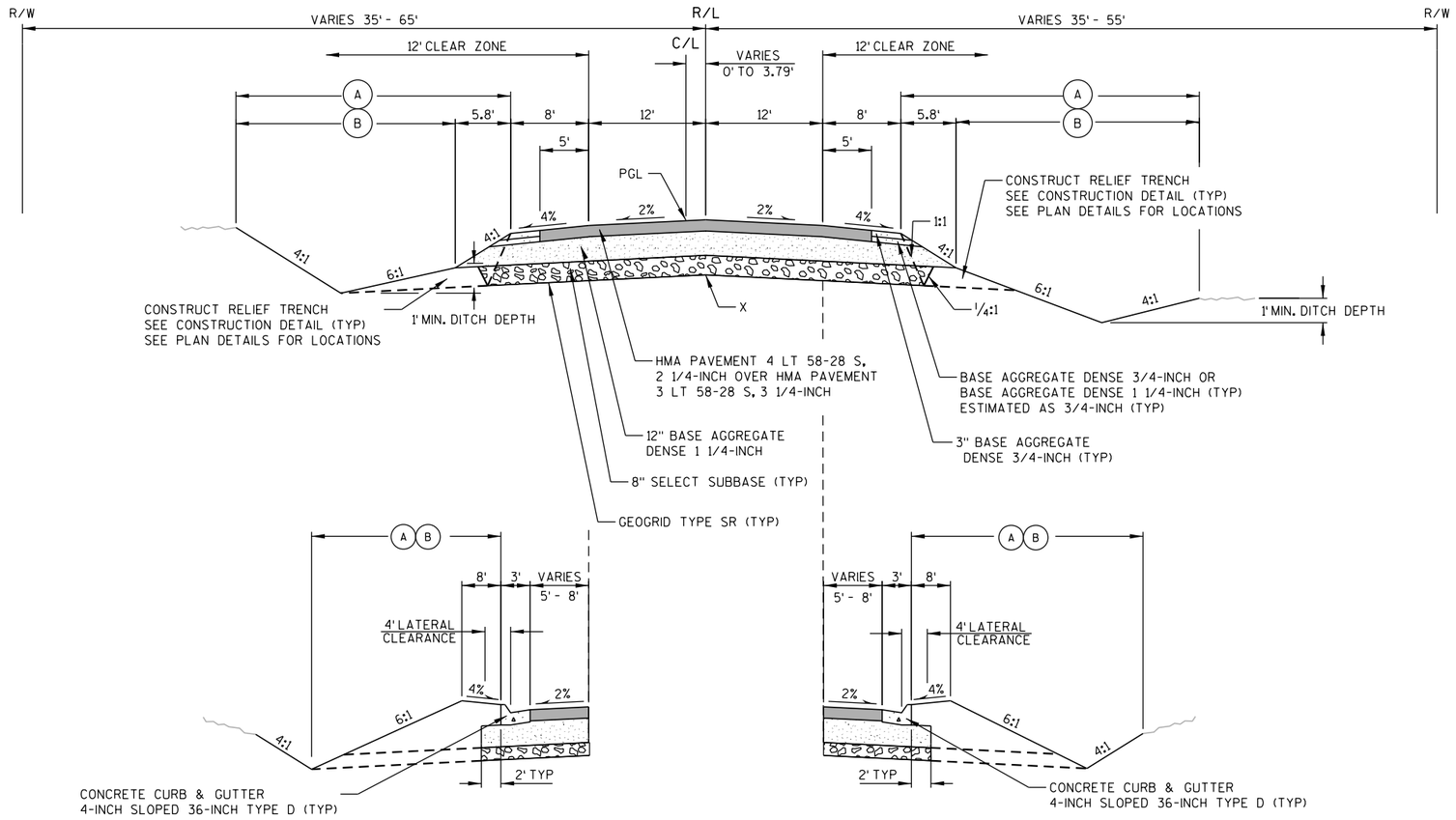
LEGEND:

(A) SEEDING MIXTURE NO. 30, SPECIAL* AND FERTILIZER TYPE B, SPECIAL

(B) 4" SALVAGED TOPSOIL AND MULCHING

*EXCEPT USE SEEDING MIXTURE NO. 40 AT AREAS DESIGNATED IN THE EROSION CONTROL PLANS

2



STA 57+72 TO STA 58+92
STA 59+79 TO STA 60+11

STA 58+70 TO STA 59+10
STA 59+97 TO STA 60+42

TYPICAL FINISHED SECTION

58TH ROAD

STA 57+72 TO STA 62+00

NOTE:

PGL = POINT REFERRED TO ON PROFILE
AND PIVOT POINT FOR SUPERELEVATION
X = POINT REFERRED TO ON CROSS SECTION
* = 34' CLEAR ZONE, STA. 57+72 TO 58+40
12' CLEAR ZONE, STA. 58+40 TO 62+00

LEGEND:

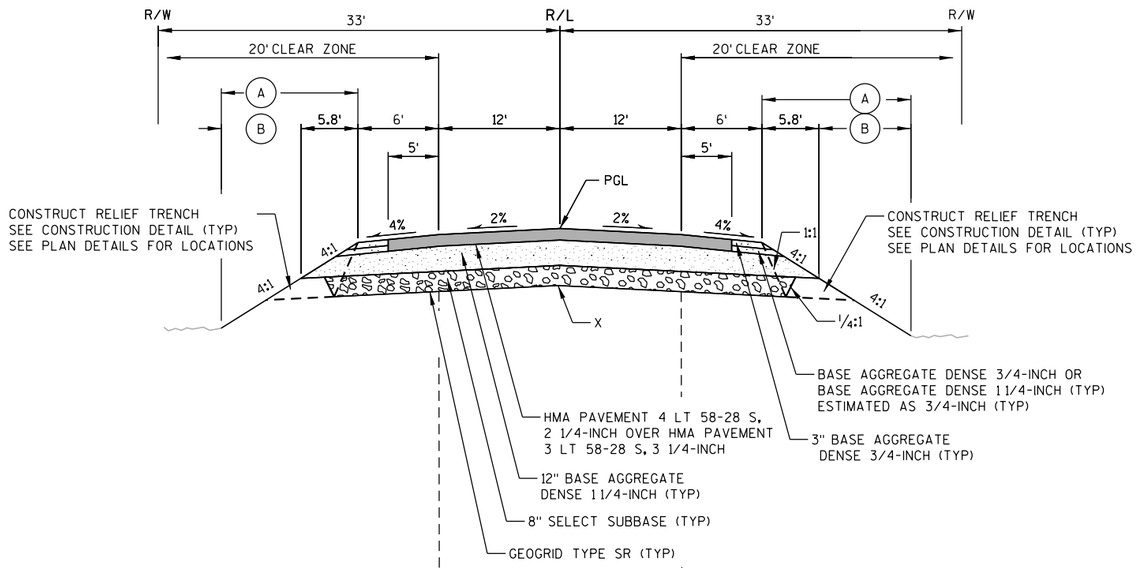
(A) SEEDING MIXTURE NO. 30, SPECIAL* AND FERTILIZER TYPE B, SPECIAL

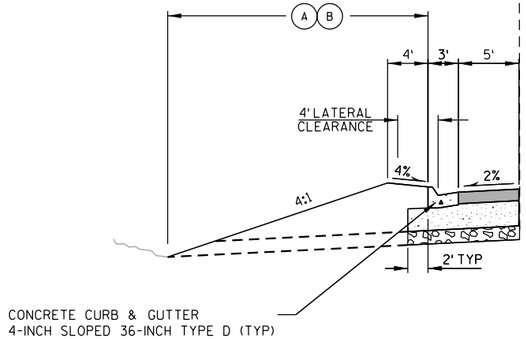
(B) 4" SALVAGED TOPSOIL AND MULCHING

*EXCEPT USE SEEDING MIXTURE NO. 40 AT AREAS DESIGNATED IN THE EROSION CONTROL PLANS

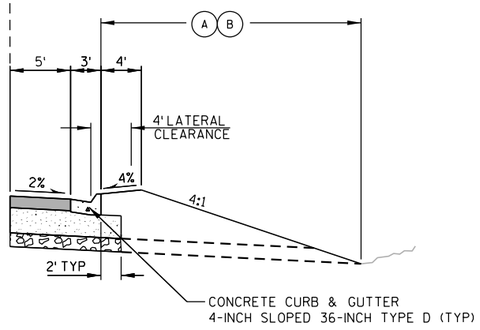
PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	TYPICAL SECTIONS: 58TH ROAD	SHEET 16	E

2





STA 51+85 TO STA 52+24



STA 51+66 TO STA 52+17

TYPICAL FINISHED SECTION

LOUIS SORENSON ROAD

STA 51+66 TO STA 52+29

NOTE:

PGL = POINT REFERRED TO ON PROFILE
AND PIVOT POINT FOR SUPERELEVATION
X = POINT REFERRED TO ON CROSS SECTION

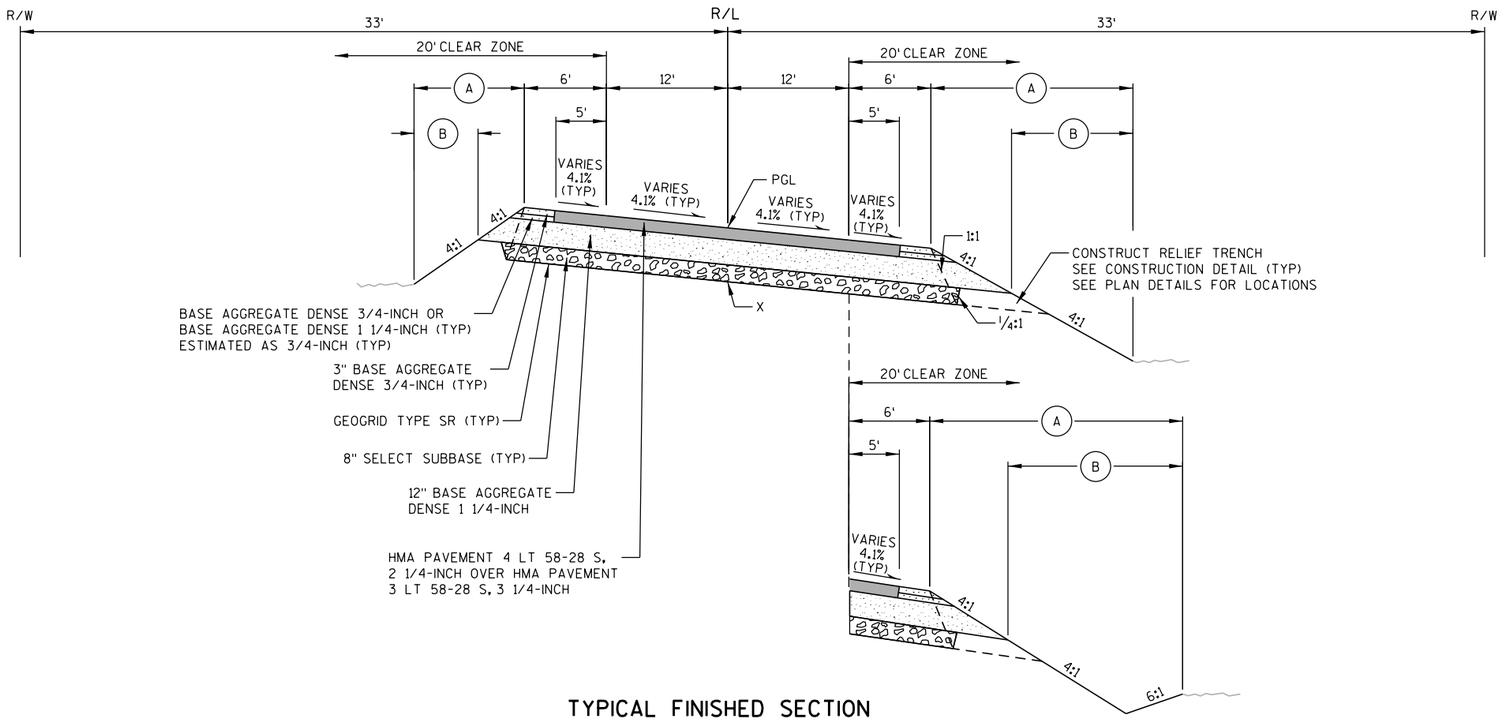
LEGEND:

(A) SEEDING MIXTURE NO. 30, SPECIAL* AND FERTILIZER TYPE B, SPECIAL

(B) 4" SALVAGED TOPSOIL AND MULCHING

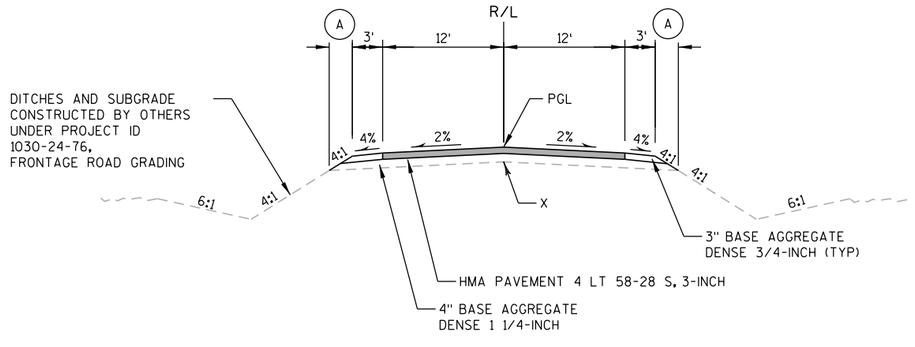
*EXCEPT USE SEEDING MIXTURE NO. 40 AT AREAS DESIGNATED IN THE EROSION CONTROL PLANS

PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	TYPICAL SECTIONS: LOUIS SORENSON ROAD	SHEET 17	E

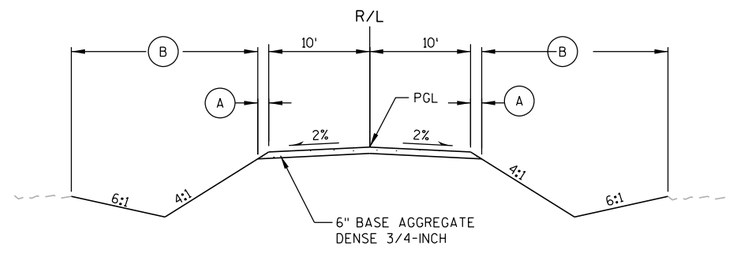


TYPICAL FINISHED SECTION
SUPERELEVATED SECTION
LOUIS SORENSON ROAD
STA 52+29 TO STA 58+14

STA 55+50 TO STA 58+14



TYPICAL FINISHED SECTION
PRIVATE DWY "A"
*STA 15+00 TO STA 20+00



TYPICAL FINISHED SECTION
PRIVATE DWY "B"
STA 30+20 TO STA 31+46.87

*NOTE: EARTHWORK, GRADING, DRAINAGE, AND RESTORATION WITHIN THIS STATION LIMIT COMPLETED BY OTHERS UNDER PROJECT ID 1030-24-76, FRONTAGE ROAD GRADING

NOTE:

PGL = POINT REFERRED TO ON PROFILE AND PIVOT POINT FOR SUPERELEVATION
X = POINT REFERRED TO ON CROSS SECTION

LEGEND:

(A) SEEDING MIXTURE NO. 30, SPECIAL* AND FERTILIZER TYPE B, SPECIAL
(B) 4" SALVAGED TOPSOIL AND MULCHING

*EXCEPT USE SEEDING MIXTURE NO. 40 AT AREAS DESIGNATED IN THE EROSION CONTROL PLANS

PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	TYPICAL SECTIONS: LOUIS SORENSON ROAD & PRIVATE DWY "A", "B"	SHEET 18	E

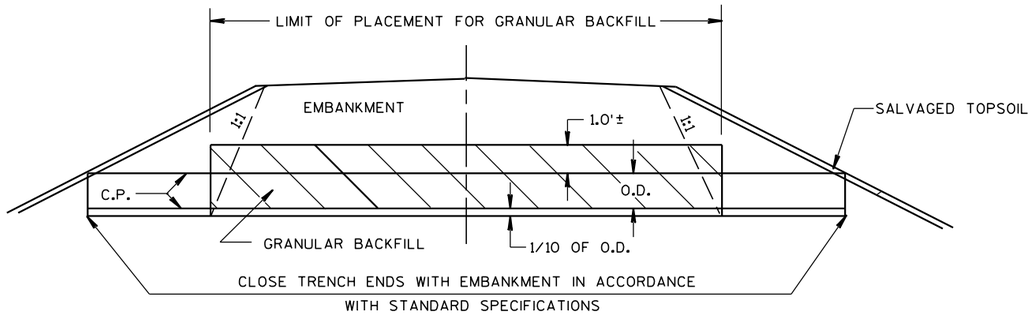
2

RUNOFF COEFFICIENT TABLE

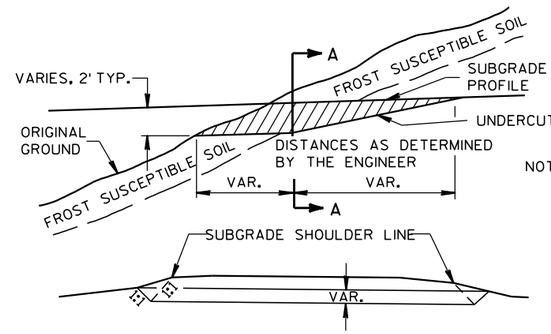
	HYDROLOGIC SOIL GROUP											
	A			B			C			D		
	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)		
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56
MEDIAN STRIP-TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22 .28	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40
SIDE SLOPE-TURF			.25 .32			.27 .34			.28 .36			.30 .38
PAVEMENT:												
ASPHALT	.70 - .95											
CONCRETE	.80 - .95											
BRICK	.70 - .80											
DRIVES, WALKS	.75 - .85											
ROOFS	.75 - .95											
GRAVEL ROADS, SHOULDERS	.40 - .60											

TOTAL PROJECT AREA = 145.79 ACRES (STH 11 INTERCHANGE R/W AREA)
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 19.71 ACRES (ID 1030-24-70 DISTURBED AREA)

090805



CULVERT BACKFILL DETAIL



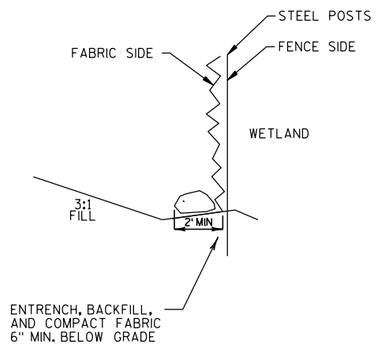
NOTE: EXACT LOCATIONS AND EXTENT OF E.B.S. SECTIONS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

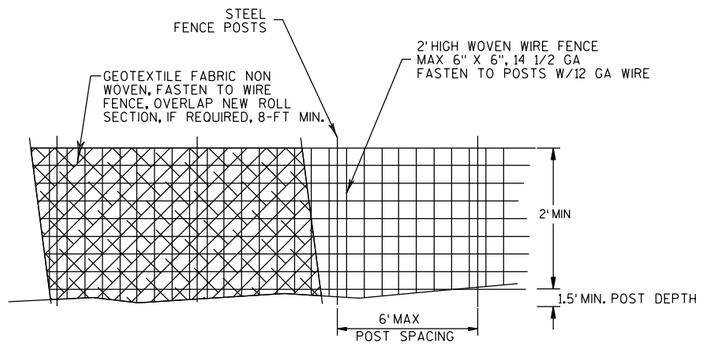
THE FILL SECTION WITHIN 100' OF THE MOUTH OF THE CUT MUST BE KEPT 2' BELOW SUBGRADE UNTIL E.B.S. IS COMPLETED.

SECTION A-A

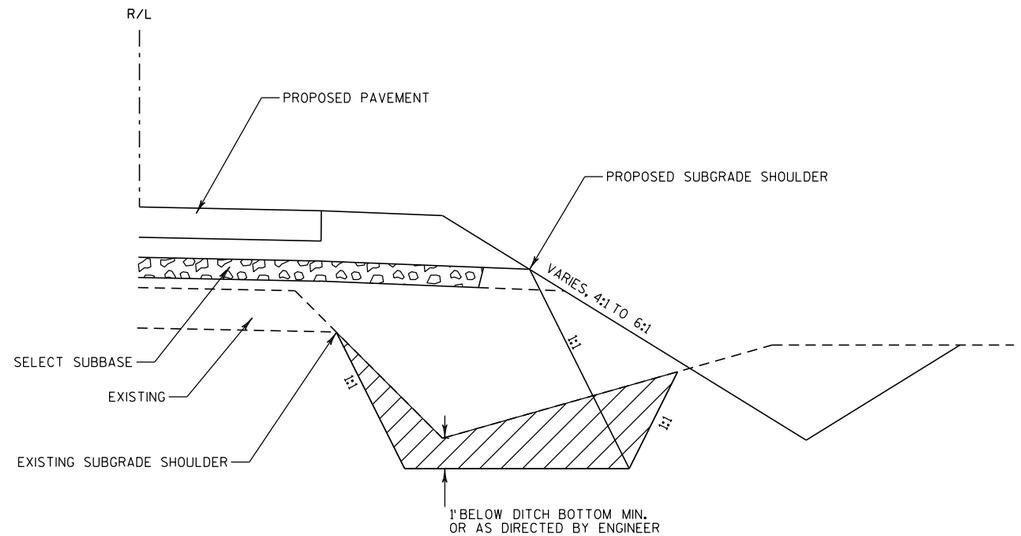
CROSS SECTION SHOWING UNDERCUT

EXCAVATION BELOW SUBGRADE AT CUTS



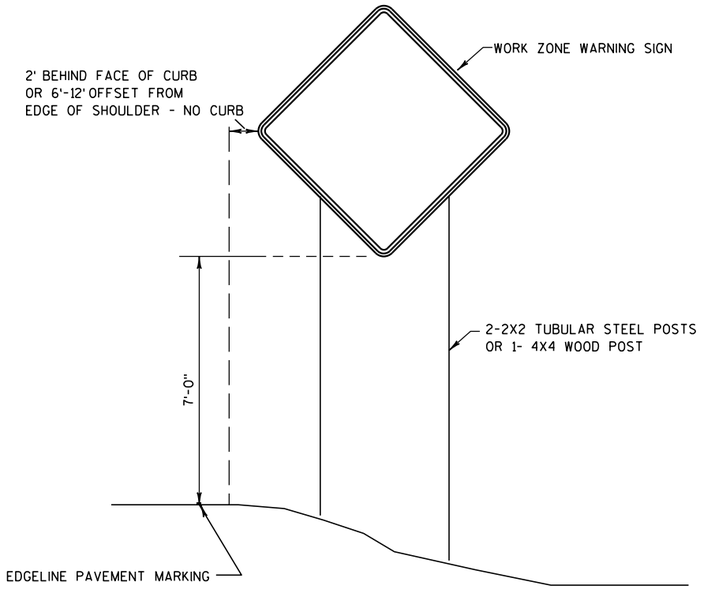


HEAVY DUTY SILT FENCE



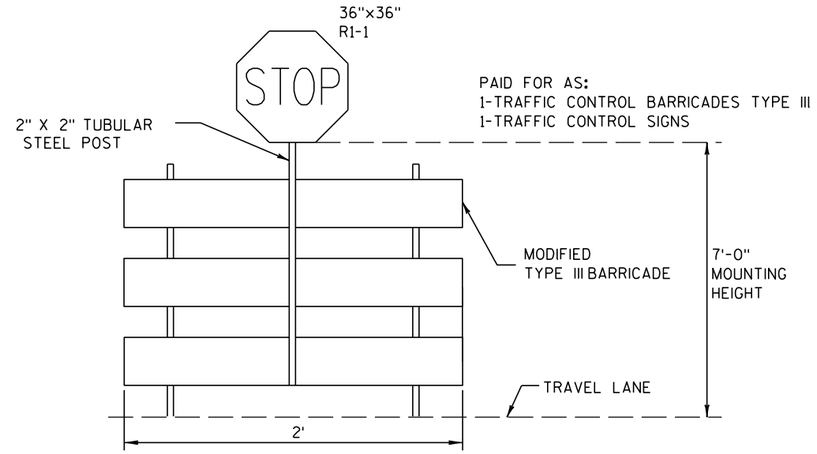
EBS AT DITCH FILLS AT FRONTAGE ROADS

1. UTILIZE DETAIL FOR ALL AREAS WHERE FILL IS TO BE PLACED OVER AN EXISTING DITCH.
2. EXCAVATE AREA TO A MINIMUM OF 1-FOOT BELOW EXISTING DITCH BOTTOM OR AS DIRECTED BY ENGINEER IN THE FIELD.
3. EXACT LOCATIONS AND EXTENTS OF EBS SECTIONS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.



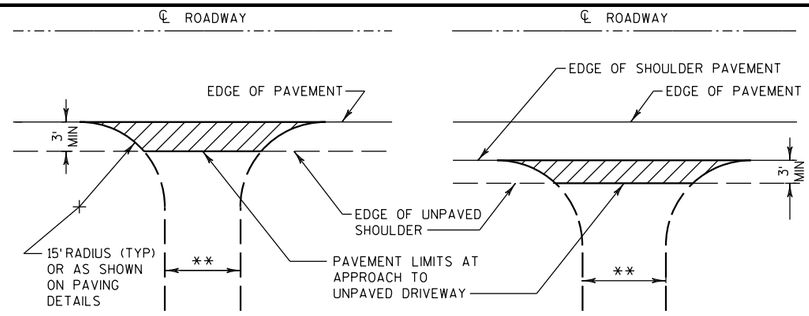
TYPICAL TEMPORARY TRAFFIC CONTROL DETAIL
MOUNTING ON FIXED SUPPORT

LONG TERM
7 DAYS OR MORE



TEMPORARY STOP SIGN

2

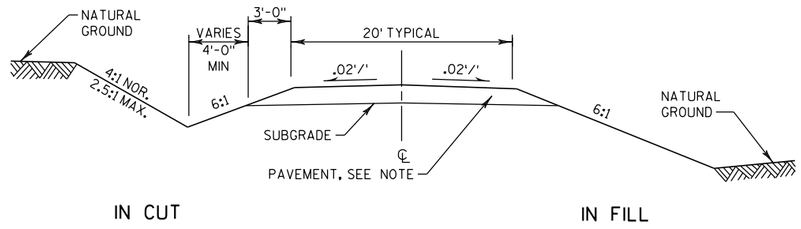


** SEE PAVING DETAILS FOR WIDTH REQUIRED.

PLAN VIEW

PLAN VIEW
(PAVED SHOULDER ON HIGHWAY)

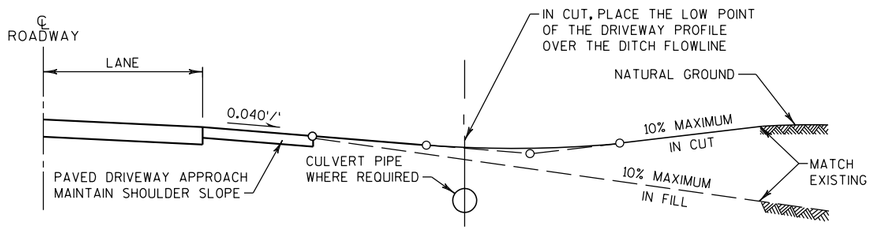
RURAL DRIVEWAY INTERSECTION



IN CUT

IN FILL

TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE



TYPICAL DRIVEWAY PROFILES

NOTES

1. WHERE DRIVEWAY IS PAVED, APPROACH PAVEMENT SHOULD BE EXTENDED TO MATCH DRIVEWAY PAVEMENT. SAWCUT IS REQUIRED.

2. DRIVEWAY SURFACE TO BE SAME AS EXISTING WITH MINIMUM SECTION OF:

   ASPHALTIC SURFACE (3 OR 4-INCH) DRIVEWAYS AND FIELD ENTRANCES OVER BASE AGGREGATE DENSE 3/4 -INCH (4-INCH)

   OR

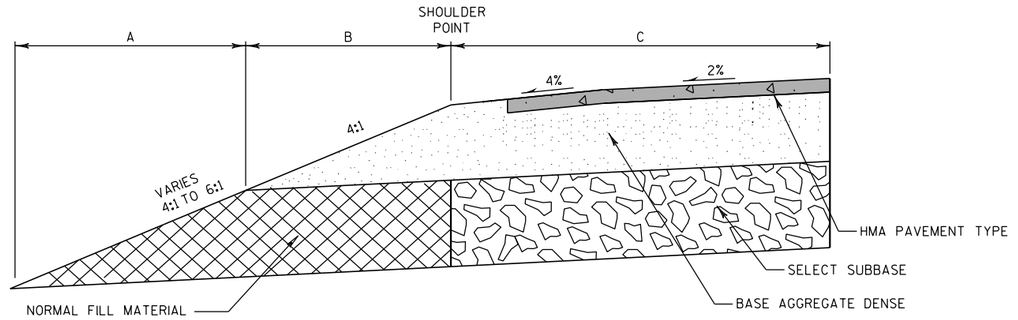
   CONCRETE DRIVEWAY 6-INCH OVER BASE AGGREGATE DENSE 3/4 -INCH (4-INCH)

   OR

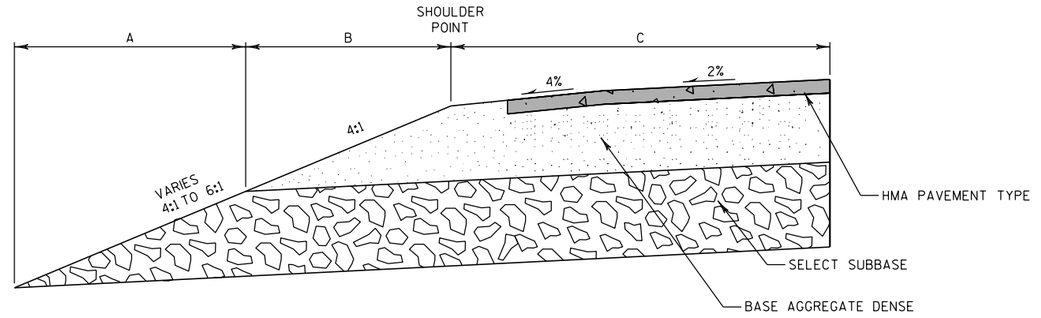
   BASE AGGREGATE DENSE 3/4 -INCH (6-INCH)

RURAL DRIVEWAY

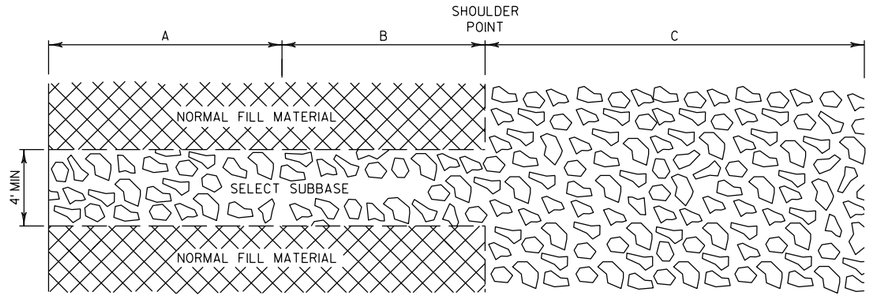
100902



TYPICAL HALF SECTION WITHOUT RELIEF TRENCH



TYPICAL HALF SECTION WITH RELIEF TRENCH



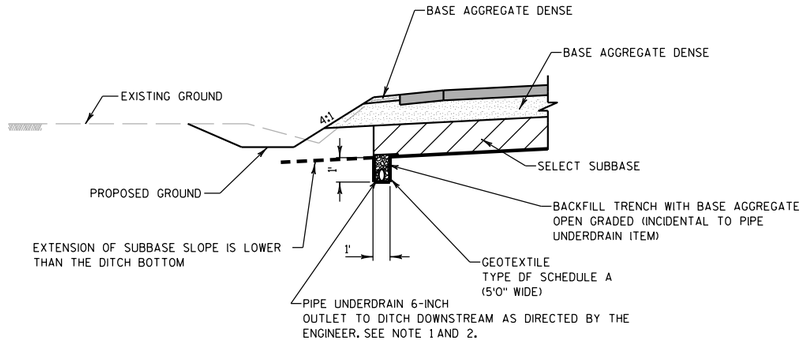
RELIEF TRENCH PLAN VIEW

RELIEF TRENCH

SEE PLAN DETAILS FOR RELIEF TRENCH LOCATIONS.

NOTES: EXCAVATION FOR RELIEF TRENCHES TO BE PAID UNDER THE ITEM EXCAVATION COMMON. DO NOT PLACE TOPSOIL AT RELIEF TRENCH.

110210(MOD)



PIPE UNDERDRAIN IN RURAL SECTIONS

SEE PLAN DETAILS FOR PIPE UNDERDRAIN LOCATIONS

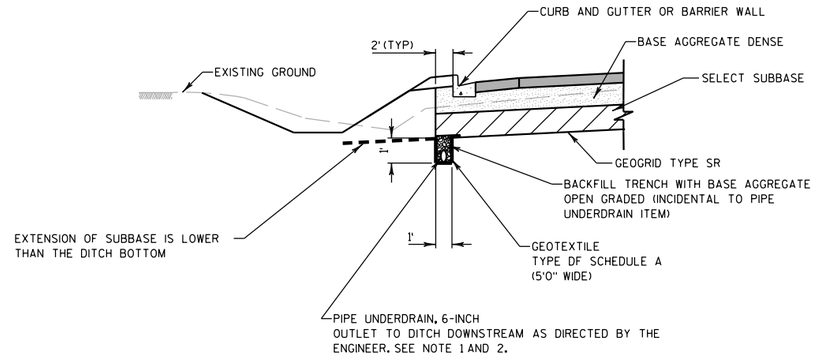
NOTES:

1. PIPE UNDERDRAIN UNPERFORATED REQUIRED AT LOCATIONS WHERE UNDERDRAIN IS REQUIRED TO CONNECT TO DITCHES OUTSIDE THE EBS AREA.

2. PIPE UNDERDRAIN UNPERFORATED REQUIRED AT LOCATIONS WHERE UNDERDRAIN IS REQUIRED TO OUTFALL IN DITCHES ON THE OPPOSITE SIDE OF THE ROAD (SEE UNDERDRAIN LATERAL CROSSING OUTLET DETAIL)

3. USE APRON ENDWALLS FOR UNDERDRAIN REINFORCED CONCRETE AT ALL DITCH OUTFALLS OF PIPE UNDERDRAIN.

4. ADJUST LATERAL LOCATION OF PIPE UNDERDRAIN AS NECESSARY TO AVOID CONFLICTS WITH THE STORM SEWER.



PIPE UNDERDRAIN IN URBAN SECTIONS

SEE PLAN DETAILS FOR PIPE UNDERDRAIN LOCATIONS

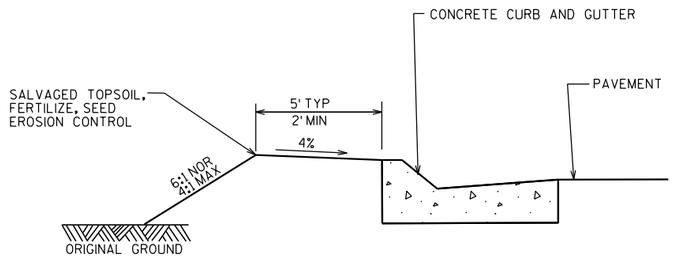
NOTES:

1. PIPE UNDERDRAIN UNPERFORATED REQUIRED AT LOCATIONS WHERE UNDERDRAIN IS REQUIRED TO CONNECT TO DITCHES OUTSIDE THE EBS AREA.

2. PIPE UNDERDRAIN UNPERFORATED REQUIRED AT LOCATIONS WHERE UNDERDRAIN IS REQUIRED TO OUTFALL IN DITCHES ON THE OPPOSITE SIDE OF THE ROAD (SEE UNDERDRAIN LATERAL CROSSING OUTLET DETAIL)

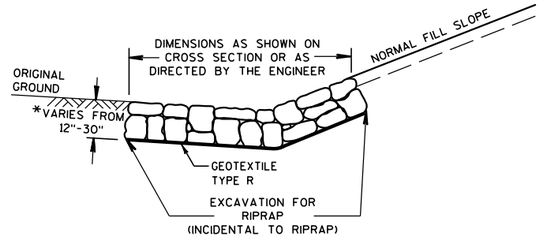
3. USE APRON ENDWALLS FOR UNDERDRAIN REINFORCED CONCRETE AT ALL DITCH OUTFALLS OF PIPE UNDERDRAIN.

4. ADJUST LATERAL LOCATION OF PIPE UNDERDRAIN AS NECESSARY TO AVOID CONFLICTS WITH THE STORM SEWER.



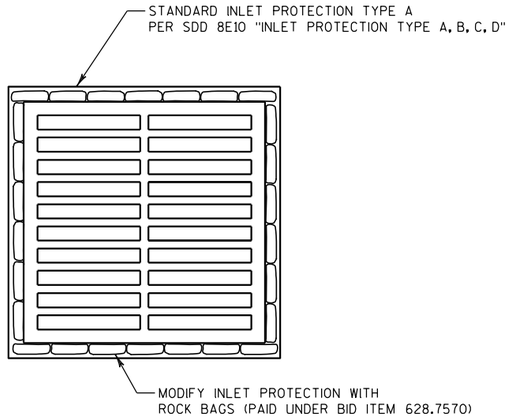
TYPICAL PARTIAL SECTION AT INTERSECTION RADII

081230



DETAIL FOR RIPRAP IN DITCHES

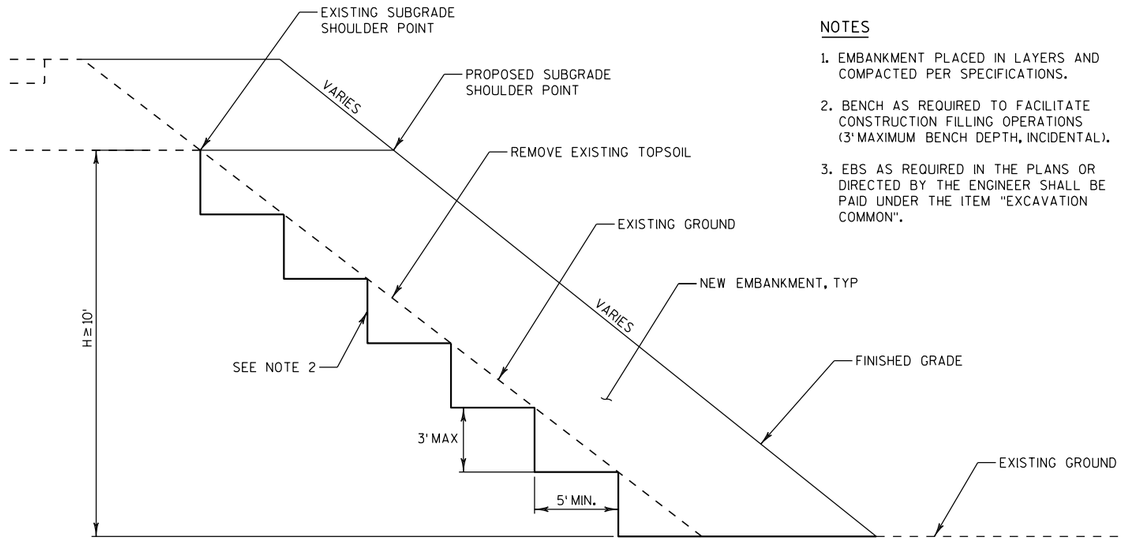
* PROVIDE DEPTHS AND VARIOUS RIPRAP SIZES IN ACCORDANCE WITH SECTION 606 OF THE STANDARD SPECIFICATIONS.



INLET PROTECTION TYPE A MODIFIED DETAIL

NOTE: ROCK BAGS SHALL BE LAID END TO END INSIDE THE TYPE A INLET PROTECTION.

2



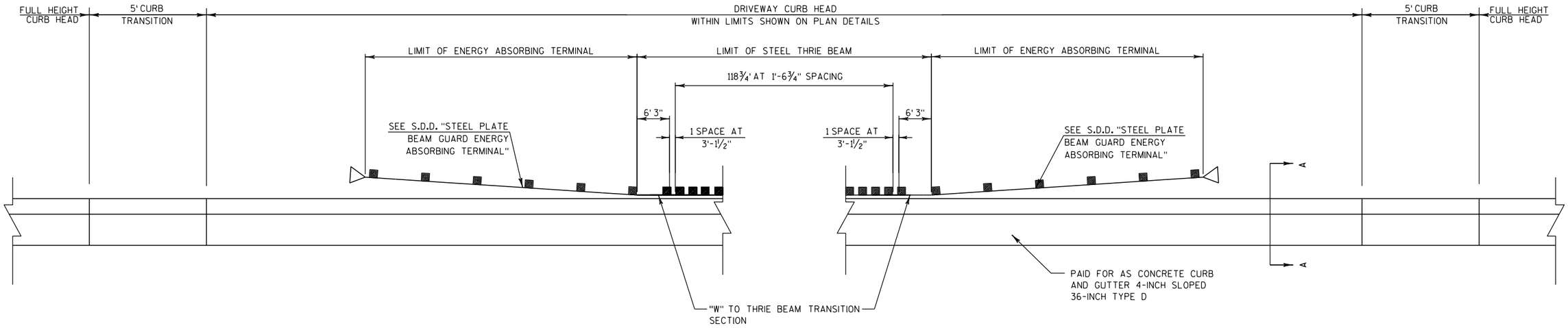
NOTES

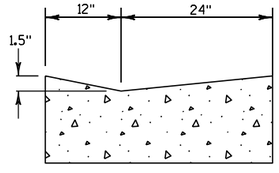
1. EMBANKMENT PLACED IN LAYERS AND COMPACTED PER SPECIFICATIONS.
2. BENCH AS REQUIRED TO FACILITATE CONSTRUCTION FILLING OPERATIONS (3' MAXIMUM BENCH DEPTH, INCIDENTAL).
3. EBS AS REQUIRED IN THE PLANS OR DIRECTED BY THE ENGINEER SHALL BE PAID UNDER THE ITEM "EXCAVATION COMMON".

STEPPED EMBANKMENT

100915

2

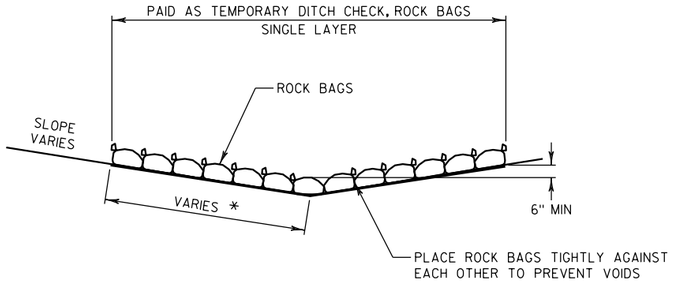




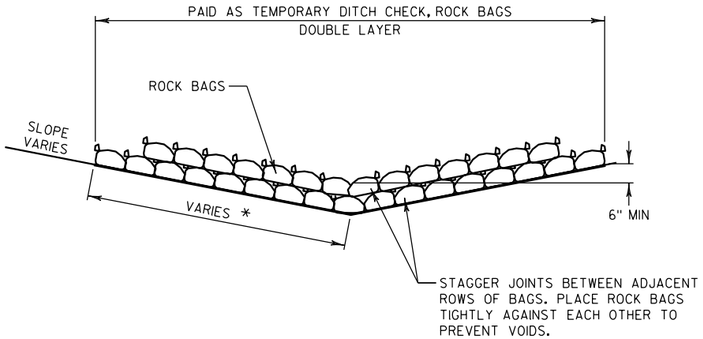
SECTION A-A
DRIVEWAY CURB

DRIVEWAY CURB HEAD AT STEEL THRIE BEAM AND BEAM GUARD TERMINAL

EAST FRONTAGE ROAD & LOUIS SORENSON ROAD INTERSECTION



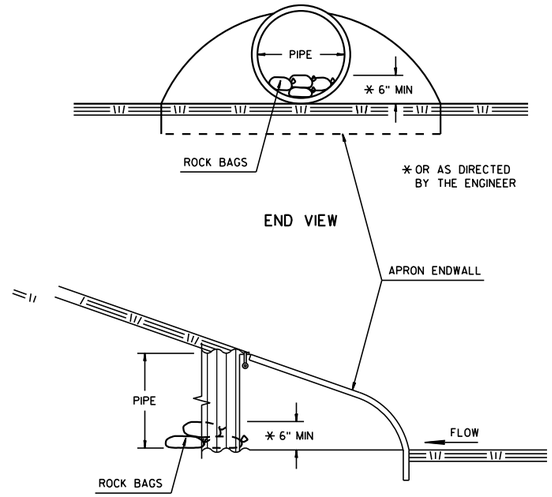
SIDE VIEW (SINGLE LAYER)



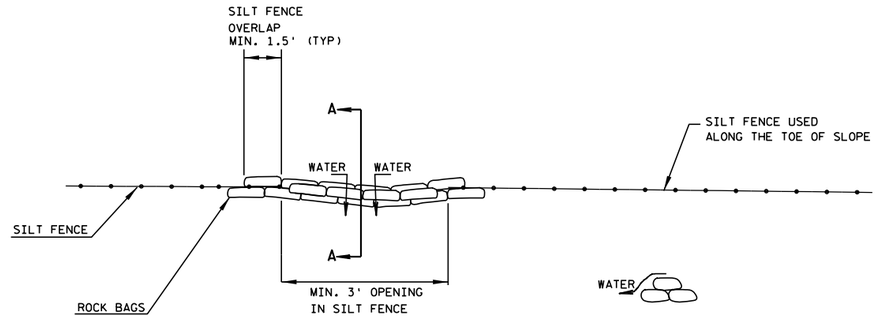
* LENGTH AND NUMBER OF BAGS MAY VARY
DEPENDING ON DESIRED DEPTH OF WATER POOL.

SIDE VIEW (DOUBLE LAYER)

TEMPORARY DITCH CHECK, ROCK BAGS, SINGLE LAYER AND DOUBLE LAYER

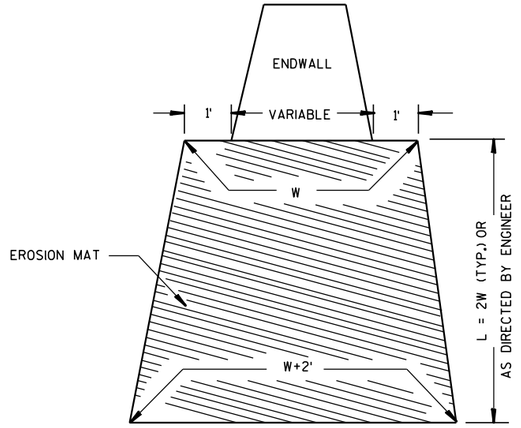


CULVERT PIPE ENDS

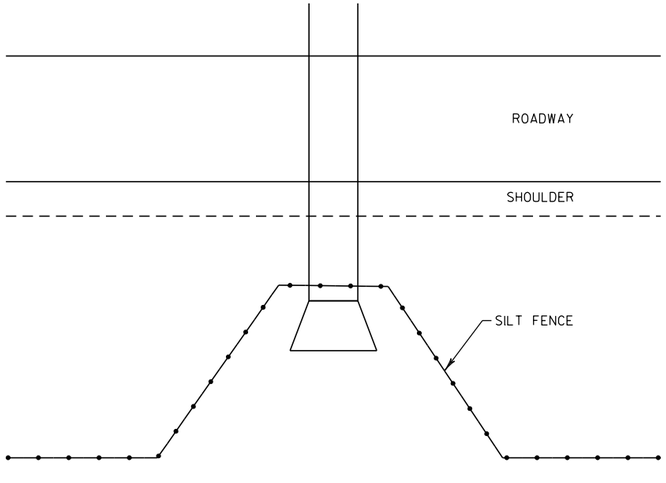


ROCK BAGS USED FOR SILT FENCE RELIEF DETAIL

ROCK BAGS



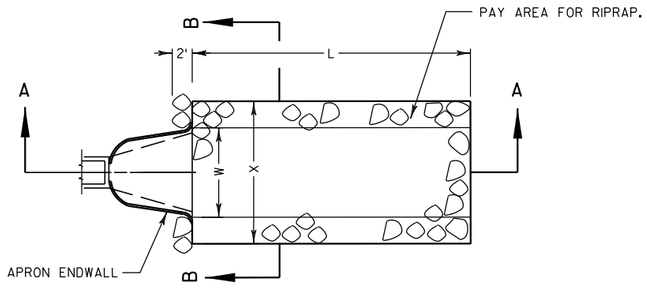
EROSION MAT TREATMENT AT CULVERTS



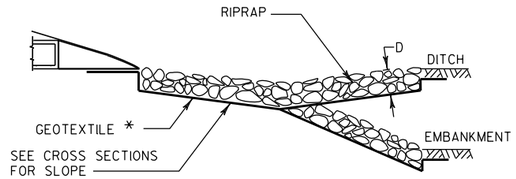
NOTE
SEE SILT FENCE SDD FOR ADDITIONAL INFORMATION.

100902

TYPICAL SILT FENCE DETAIL AT PIPE INLET



PLAN VIEW



SECTION A-A

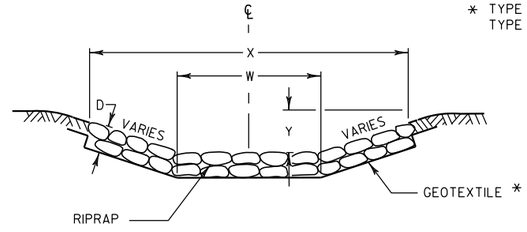
L = 3 x W (NOR) OR 10' MIN
OR AS INDICATED IN THE PLANS
OR AS DIRECTED BY THE ENGINEER

D = 12" FOR RIPRAP LIGHT
18" FOR RIPRAP MEDIUM
24" FOR RIPRAP HEAVY

X = W+2' FOR TYPICAL CULVERT
DISCHARGE INTO DITCH
W+5' FOR CULVERT DISCHARGE
DOWN EMBANKMENT SLOPE

Y = 0' FOR TYPICAL CULVERT
DISCHARGE INTO DITCH
12" FOR CULVERT DISCHARGE
DOWN EMBANKMENT SLOPE

* TYPE R (FOR RIPRAP LIGHT ONLY)
TYPE HR (FOR RIPRAP HEAVY AND MEDIUM ONLY)

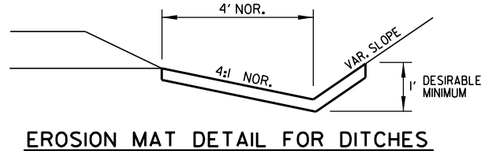


SECTION B-B

RIPRAP AND GEOTEXTILE DETAIL AT APRON ENDWALLS

SEE EROSION CONTROL PLAN FOR LOCATIONS

100914

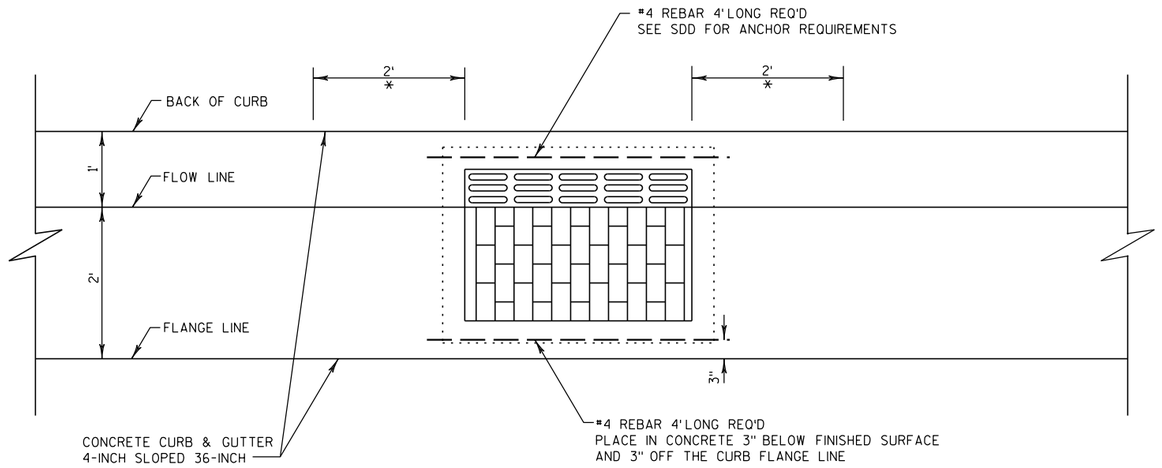


EROSION MAT DETAIL FOR DITCHES

081231

PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	CONSTRUCTION DETAILS: EAST FRONTAGE ROAD	SHEET 28	E

2



PLAN VIEW

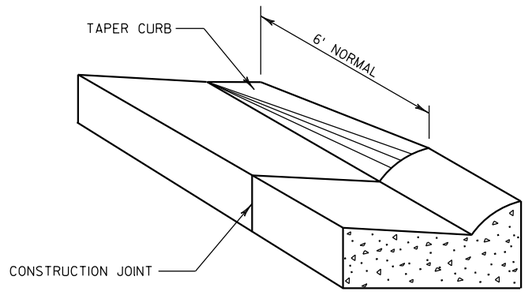
* TRANSITION STANDARD CURB HEAD TO MATCH THE TYPE HM INLET COVER.

NOTES

1. SEE SDD "INLET COVERS TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S" FOR ADDITIONAL INFORMATION.
2. THE TWO 2-FOOT LONG CURB TRANSITION SEGMENTS ARE PAID AS CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH.
3. THE TWO 4-FOOT LENGTHS OF #4 REBAR ARE INCIDENTAL TO THE BID ITEM "INLET COVERS TYPE HM".

INLET COVERS, TYPE HM

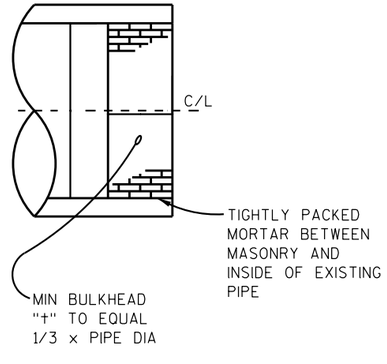
100813



CURB & GUTTER TERMINI DETAIL

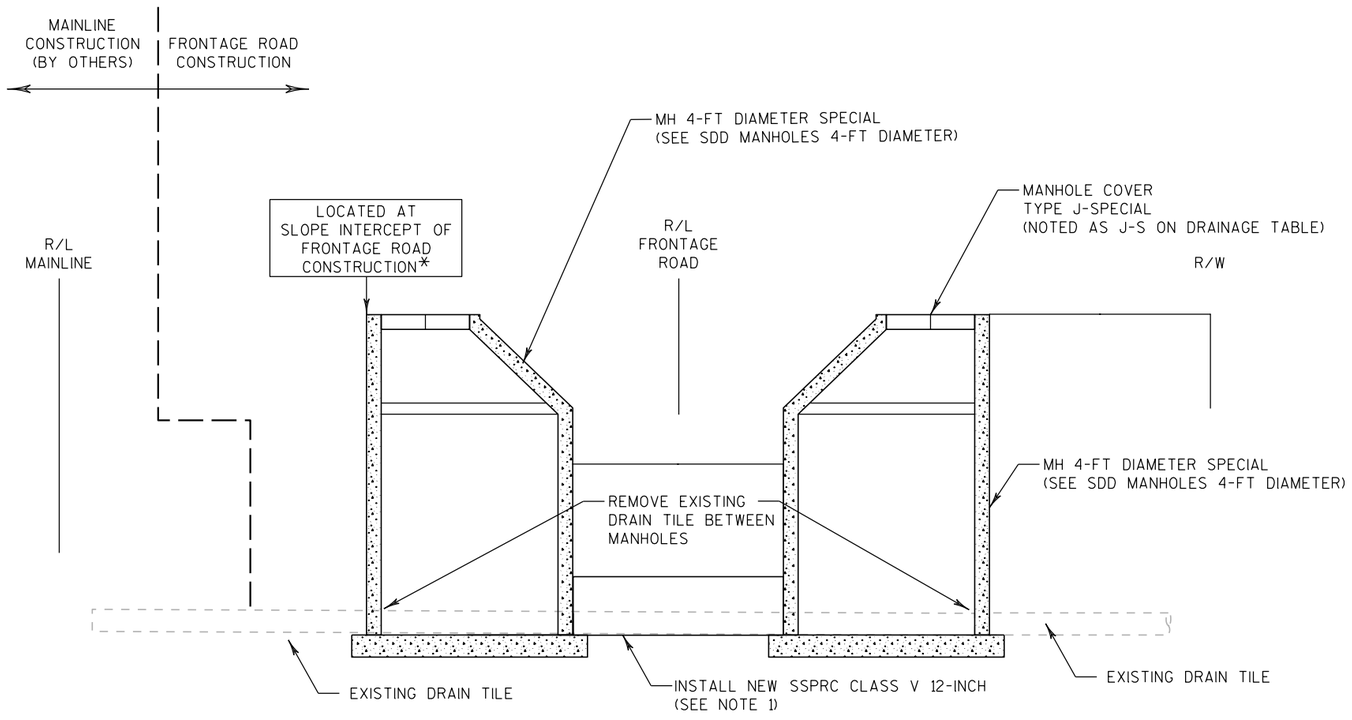
NOTE: USE 6 FT TRANSITION FOR CONCRETE AND ASPHALTIC CURB

100813



TEMPORARY BULKHEAD PIPE MASONRY

ITEM TO BE PAID FOR UNDER ITEM "SEALING PIPES"
FOR LOCATIONS SEE MISCELLANEOUS QUANTITIES SHEETS



* LOCATION CAN BE ADJUSTED AS NEEDED IF APPROVED BY THE ENGINEER

STAGING

1. FRONTAGE ROAD CONSTRUCTION:

   CONSTRUCT MANHOLE 4-FT DIAMETER SPECIAL. CONNECT EXISTING TILE TO MANHOLE. REPLACE EXISTING TILE WITH SSPRC CLASS V 12-INCH BETWEEN MANHOLES.

NOTES

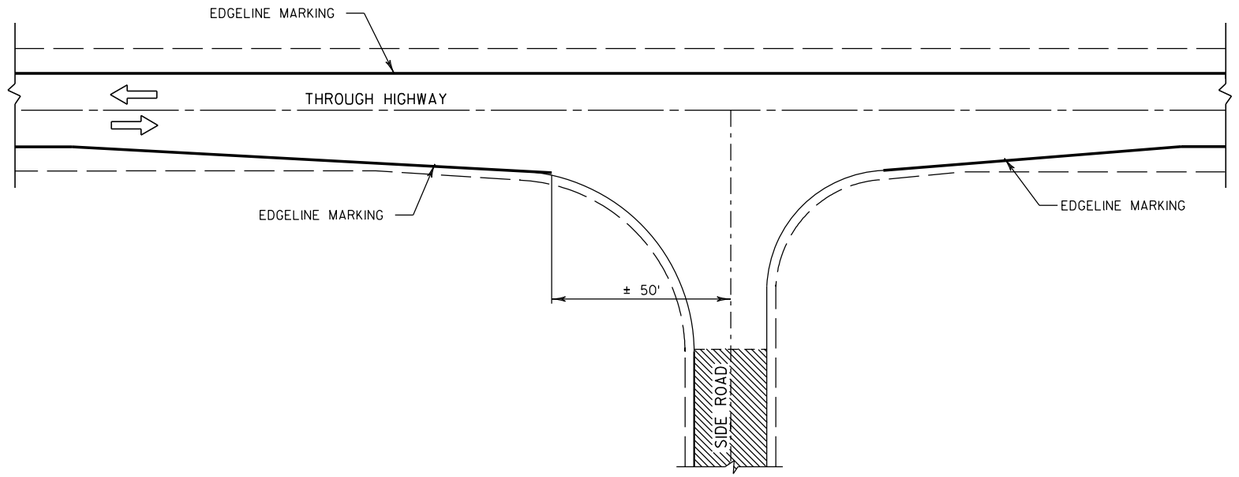
1. IF EXISTING DRAIN TILE IS LARGER THAN 12", MATCH THE EXISTING SIZE IN THE FIELD.
2. GRADING AT MANHOLES WITHIN THE CLEAR ZONE OF THE FRONTAGE ROADS AND MAINLINE IS TO BE FLUSH WITH TOP OF THE MANHOLE.
3. PIPE CONNECTION TO INLET IS INCIDENTAL.

DRAIN TILE CONFIGURATION

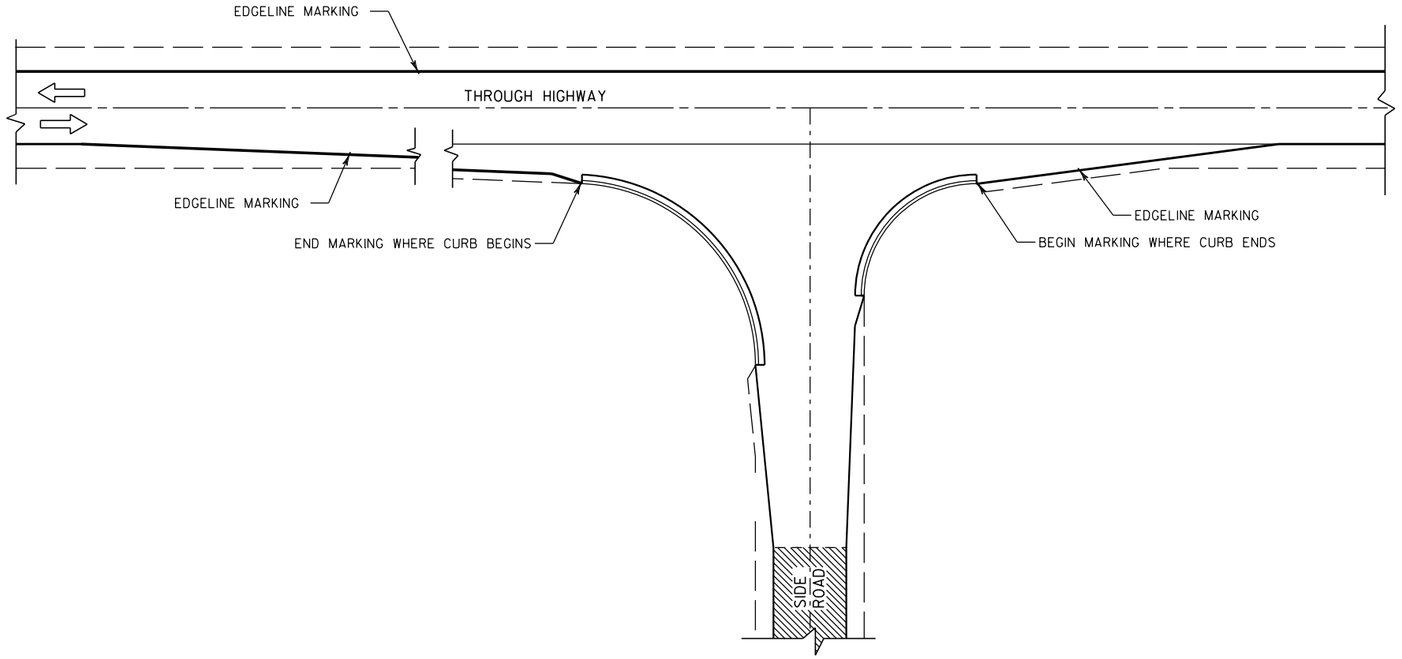
(FOR FRONTAGE ROAD CROSSINGS)

120814 (MOD)

2



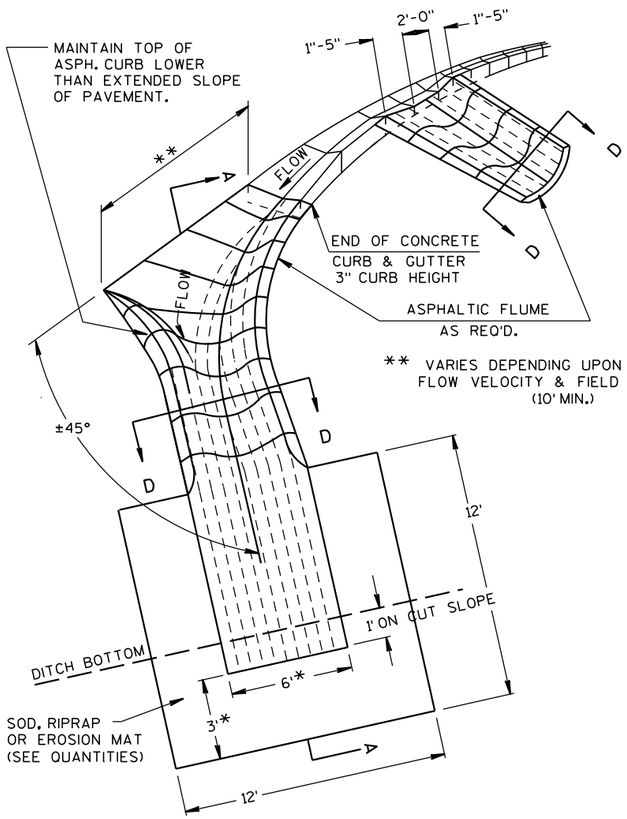
MINOR INTERSECTION WITHOUT CURBS
TYPICAL MARKING

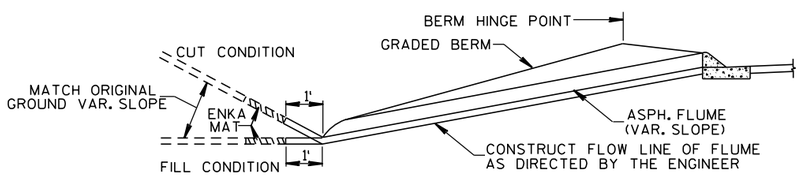


MINOR INTERSECTION WITH CURBS
TYPICAL MARKING

MINOR INTERSECTION EDGELINE MARKING

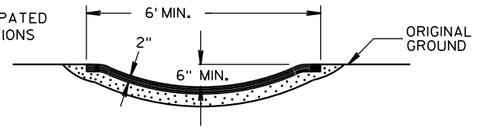
100803





SECTION A-A

** VARIES DEPENDING UPON ANTICIPATED FLOW VELOCITY & FIELD CONDITIONS (10' MIN.)



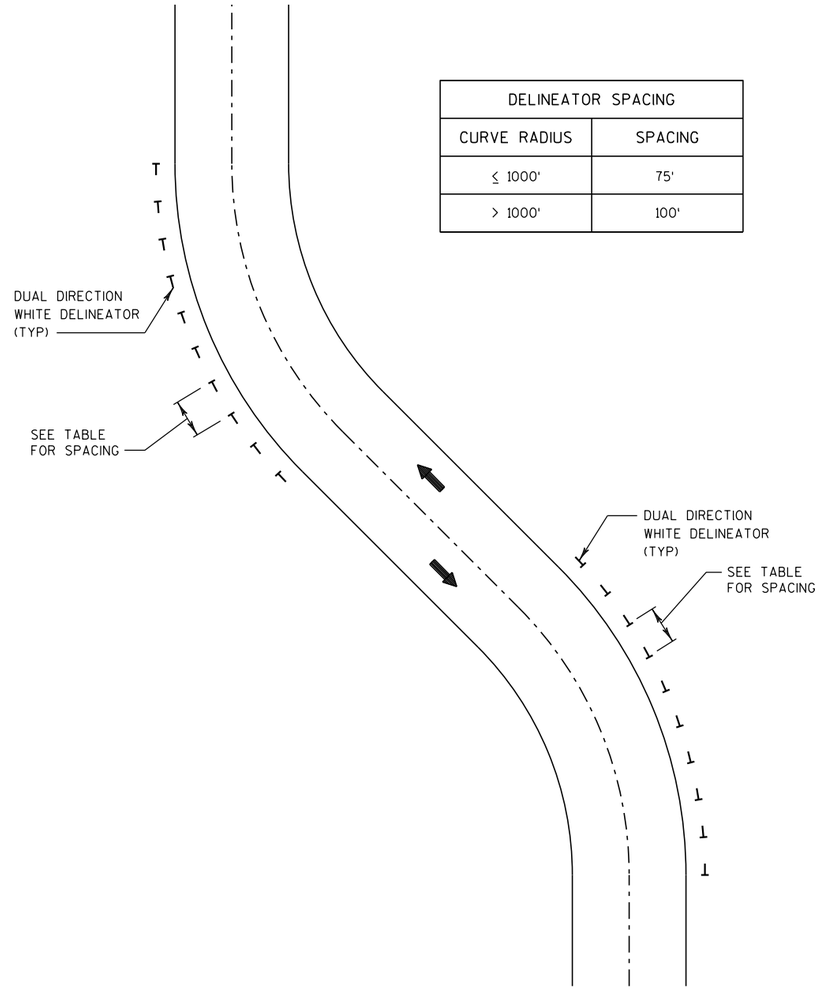
SECTION D-D

ASPHALTIC FLUME DETAIL AT RURAL INTERSECTIONS

NOTES

1. DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND STANDARD DETAIL DRAWINGS.
2. DELINEATORS SHALL BE PLACED AT A CONSTANT DISTANCE FROM THE EDGE OF THE SHOULDER FOR THE LENGTH OF THE INSTALLATION.
3. INSTALL POST PERPENDICULAR TO ROADWAY, AT THE POINT OF INSTALLATION, SO THAT THE DELINEATORS ARE VISIBLE FROM BOTH DIRECTION.

DELINEATOR SPACING	
CURVE RADIUS	SPACING
≤ 1000'	75'
> 1000'	100'



DELINEATOR SPACING

DELINEATOR LAYOUT ON FRONTAGE ROAD REVERSE CURVES

PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	CONSTRUCTION DETAILS: EAST FRONTAGE ROAD	SHEET 32	E

WEST FRONTAGE ROAD

SB ON RAMP

SB IH 94

NB IH 94

NB OFF RAMP

EAST FRONTAGE ROAD

R/L WEST FRONTAGE ROAD

R/L SB ON RAMP

R/L IH 94

R/L NB OFF RAMP

R/L EAST FRONTAGE ROAD

SEE PROJECT ID 1030-24-78
FOR WETLAND AND WATERWAY
IMPACT INFORMATION

REMOVE SMALL
PIPE CULVERT
(1 - 24" CPCM)

REMOVE SMALL
PIPE CULVERT
(2 - 48" CPCM)

REMOVE
DRAINTILE

REMOVE SMALL
PIPE CULVERT
(1-12" CPCM)

PROP R/W

TLE

EXIST R/W

MATCHLINE 3744+00

BEGIN PROJECT
I.D. 1030-24-70
STA. 3730+00
= MATCH PROJECT
I.D. 1030-24-77

REMOVAL LEGEND

- X — CLEARING AND GRUBBING (I.D.)
- CLEARING AND GRUBBING (STA.)
- REMOVING PAVEMENT
- REMOVING CURB AND GUTTER
- REMOVING CONCRETE BARRIER
- REMOVING FENCE
- REMOVING GUARDRAIL
- REMOVING INLETS
- REMOVING MANHOLES
- RM — REMOVING STORM SEWER, CULVERT, DRAIN TILE, OR UNDERDRAIN
- SLOPE INTERCEPT

PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	REMOVAL PLAN: EAST FRONTAGE ROAD	SHEET 33	E

FILE NAME : Z:\Racine\CADDS\13\13E\CDS\021101_RM.dgn PLOT DATE : 7/31/2017 PLOT BY : bjw PLOT NAME : PLOT SCALE : 1:100

2

2

REMOVAL LEGEND

- X — CLEARING AND GRUBBING (I.D.)
- CLEARING AND GRUBBING (STA.)
- REMOVING PAVEMENT
- REMOVING CURB AND GUTTER
- REMOVING CONCRETE BARRIER
- REMOVING FENCE
- REMOVING GUARDRAIL
- REMOVING INLETS
- REMOVING MANHOLES
- RM — REMOVING STORM SEWER, CULVERT, DRAIN TILE, OR UNDERDRAIN
- SLOPE INTERCEPT

SB IH 94
NB IH 94
R/L IH 94
NB ON RAMP
R/L NB ON RAMP
NB OFF RAMP
R/L NB OFF RAMP
R/L STH 11
STH 11
MATCHLINE
MATCHLINE 3744+00
3759+00
114.1' LT
3758+32
45.4' LT
WISDOT PARK
AND RIDE LOT
EXISTING LIGHT POLE
TO REMAIN.
DETENTION POND
EXISTING WEIR
STRUCTURE TO
REMAIN
EAST FRONTAGE ROAD
R/L EAST FRONTAGE ROAD
PROP R/W
EXIST R/W
12" DRAINTILE

REMOVE DRAINTILE
REMOVE SMALL
PIPE CULVERT
(1-48" CPCM)
REMOVE
DRAINTILES
REMOVE DRAINTILE
REMOVE SMALL
PIPE CULVERT
(1-18" CPCM)
REMOVE
DRAINTILE
AND INLET
REMOVE CABLE GATE
AND POSTS, PAID FOR
AS REMOVING GATE
REMOVE SMALL
PIPE CULVERT
(1-24" CPCM)
REMOVE DRAINTILE
REMOVE SMALL
PIPE CULVERT
(1- 18" CPCM)
REMOVE DRAINTILE
REMOVE SMALL
PIPE CULVERT
(1-12" CPCM)
REMOVE DRAINTILES

PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	REMOVAL PLAN: EAST FRONTAGE ROAD	SHEET 34	E

FILE NAME : Z:\Racine\CADDS\13\13E\CDS\021102_RM.dgn PLOT DATE : 7/31/2017 PLOT BY : bjw PLOT NAME : PLOT SCALE : 1:100

2

N

STH 11

SOO LINE RAILROAD COMPANY

PROP R/W

REMOVE APRON ENDWALL TO BE PAID AS REMOVING SMALL PIPE CULVERTS

5756+46 98.6'LT

REMOVE FENCE 5757+69 77.3'LT TLE

5758+69 70.3'LT

5756+46 62.4'LT

EXIST R/W

REMOVE SMALL PIPE CULVERT (1-24" CPCM)

REMOVE MARKER

58TH ROAD

EAST FRONTAGE ROAD

REMOVING PERMANENT BARRICADES TYPE III

MATCHLINE 5770+00

5756 5758 5760 5762 5764 5766 5768

TLE

BURIED TILE

400

PLE

R/L SWALE #4

AVOID IMPACTS TO BLACK WALNUT TREE

REMOVE SMALL PIPE CULVERT (1-12" CPCM)

300

R/L SWALE #3

R/L EAST FRONTAGE ROAD

SEPTIC

R/L 58TH ROAD

REMOVE APRON ENDWALL TO BE PAID AS REMOVING SMALL PIPE CULVERTS

CANADIAN PACIFIC

INL

NOTE:
1) STA 5763+00 TO STA 5779+00 AND STA 15+00 TO STA 19+80 SUBGRADE FILL MATERIAL WAS PREVIOUSLY PLACED BY OTHERS UNDER PROJECT ID 1030-24-76. REMOVE TOPSOIL AS REQUIRED WITHIN THE SLOPE INTERCEPTS PRIOR TO PLACING ANY REQUIRED FILL MATERIAL. REMOVE EXCESS FILL MATERIAL PLACED OVER CULVERT PIPES. PROTECT EXISTING CULVERT PIPES FROM DAMAGE DURING CONSTRUCTION. TOPSOIL REMOVAL WITHIN THE ROADBED TO BE PAID FOR UNDER ITEM PREPARE FOUNDATI FOR BASE AGGREGATE. TOPSOIL REMOVAL BETWEEN THE SUBGRADE SHOULDER POINT AND THE SLOPE INTERCEPT TO BE PAID FOR UNDER ITEM SALVAGED TOPSOIL.

NOTE:
REMOVALS FROM STA 5763+00 TO STA 5779+00 COMPLETED BY OTHERS UNDER PROJECT ID 1030-24-76, FRONTAGE ROAD GRADING

REMOVAL LEGEND

- X CLEARING AND GRUBBING (I.D.)
- CLEARING AND GRUBBING (STA.)
- REMOVING PAVEMENT
- REMOVING CURB AND GUTTER
- REMOVING CONCRETE BARRIER
- REMOVING FENCE
- REMOVING GUARDRAIL
- REMOVING INLETS
- REMOVING MANHOLES
- RM REMOVING STORM SEWER, CULVERT, DRAIN TILE, OR UNDERDRAIN
- SLOPE INTERCEPT

PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	REMOVAL PLAN: EAST FRONTAGE ROAD	SHEET 35	E

FILE NAME : Z:\Racine\CADDS\13\13E\CDS\021103_RM.dgn PLOT DATE : 7/31/2017 PLOT BY : bjw PLOT NAME : PLOT SCALE : 1:100

2

IH-94 SB

IH-94 NB

R/L SB OFF RAMP

R/L IH 94

R/L NB ON RAMP

REMOVE SMALL PIPE CULVERT (1-24" CPCM) CUT IN DRAINAGE DITCH TO MATCH OLD INVERT OF PIPE (SEE NOTE 2)

REMOVE CABLE GATE AND POSTS, PAID FOR AS REMOVING GATE

CAUTION

REMOVE SMALL PIPE CULVERT (1- 12" CPCM)

MATCHLINE 7778+00

EXISTING EAST FRONTAGE ROAD

PROP R/W

R/L EXISTING EAST FRONTAGE ROAD

EXIST R/W

TLE

16

PRIVATE DRIVEWAY "A"

REMOVE STRUCTURE C-48-36 2'X2' CONCRETE BOX CUT IN DRAINAGE DITCH TO MATCH OLD INVERT OF PIPE (SEE NOTE 2)

REMOVE STRUCTURE C-48-33 3'X2' CONCRETE BOX CUT IN DRAINAGE DITCH TO MATCH OLD INVERT OF PIPE (SEE NOTE 2)

OBLITERATE OLD ROAD BEGIN AT STA. 7764+30

R/L 58TH ROAD

REMOVING PERMANENT BARRICADES TYPE III

R/L PRIVATE DRIVEWAY "A"

MATCHLINE 5778+00

58TH ROAD

PROP R/W

R/L EAST FRONTAGE ROAD

EAST FRONTAGE ROAD

MATCHLINE 5770+00

NOTE:
1) OBLITERATING OLD ROAD LIMITS ARE 18-INCHES DEEP FROM EXISTING GROUND AND APPROXIMATELY 6-FEET OUTSIDE EDGE OF SHOULDER. RESTORE PER STANDARD SPECIFICATION. ADJUST GRADING LIMITS IN FIELD AS NECESSARY TO FACILITATE DRAINAGE AND ELIMINATE PONDING.

2) WHERE DRAINAGE DITCHES ARE CALLED FOR AT CULVERT REMOVALS THE DITCH SHALL BE A V-DITCH WITH 6:1 SIDE SLOPES. ALL WORK FOR THIS IS INCIDENTAL TO THE REMOVING SMALL PIPE CULVERT ITEM OR THE REMOVING STRUCTURE ITEM.

3) STA 5763+00 TO STA 5779+00 AND STA 15+00 TO STA 19+80 SUBGRADE FILL MATERIAL WAS PREVIOUSLY PLACED BY OTHERS UNDER PROJECT ID 1030-24-76. REMOVE TOPSOIL AS REQUIRED WITHIN THE SLOPE INTERCEPTS PRIOR TO PLACING ANY REQUIRED FILL MATERIAL. REMOVE EXCESS FILL MATERIAL PLACED OVER CULVERT PIPES. PROTECT EXISTING CULVERT PIPES FROM DAMAGE DURING CONSTRUCTION. TOPSOIL REMOVAL WITHIN THE ROADBED TO BE PAID FOR UNDER ITEM PREPARE FOUNDATION FOR BASE AGGREGATE. TOPSOIL REMOVAL BETWEEN THE SUBGRADE SHOULDER POINT AND THE SLOPE INTERCEPT TO BE PAID FOR UNDER ITEM SALVAGED TOPSOIL.

NOTE:
REMOVALS FROM STA 5763+00 TO STA 5779+00 COMPLETED BY OTHERS UNDER PROJECT ID 1030-24-76, FRONTAGE ROAD GRADING

REMOVAL LEGEND

- X — CLEARING AND GRUBBING (L.D.)
- CLEARING AND GRUBBING (STA.)
- REMOVING PAVEMENT
- REMOVING CURB AND GUTTER
- REMOVING CONCRETE BARRIER
- REMOVING FENCE
- REMOVING GUARDRAIL
- REMOVING INLETS
- REMOVING MANHOLES
- —RM— REMOVING STORM SEWER, CULVERT, DRAIN TILE, OR UNDERDRAIN
- SLOPE INTERCEPT

PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	REMOVAL PLAN: EAST FRONTAGE ROAD	SHEET 36	E

REMOVE OLD STRUCTURE C-47-36
2'X3' CONCRETE BOX CULVERT

CAUTION

IH-94 NB

5784+30

5791+00

R/L EXISTING EAST FRONTAGE ROAD

MATCHLINE 7778+00

78

7780

5786

5788

5790

5784

5782

EAST FRONTAGE ROAD

R/L EAST FRONTAGE ROAD

OBLITERATE
OLD ROAD END
STA 7781+25

REMOVING PERMANENT
BARRICADES TYPE III

PROP R/W

PLE

5780

REMOVE MARKERS

EXIST R/W

52L

PROP R/W

END PROJECT
I.D. 1030-24-70
STA. 5791+00
= MATCH PROJECT
I.D. 1033-02-77

REMOVE DRAIN TILE

R/L LOUIS SORENSON ROAD

MATCHLINE 5778+00

78

R/L EAST FRONTAGE ROAD

PROP R/W

LOUIS SORENSON ROAD

EXIST R/W

54L

56L

58L

60L

REMOVE SMALL
PIPE CULVERT
(1 - 12" CPCM)

N

NOTE:
1) OBLITERATING OLD ROAD LIMITS ARE 18-INCHES DEEP FROM EXISTING GROUND AND APPROXIMATELY 6-FEET OUTSIDE EDGE OF SHOULDER. RESTORE PER STANDARD SPECIFICATION. ADJUST GRADING LIMITS IN FIELD AS NECESSARY TO FACILITATE DRAINAGE AND ELIMINATE PONDING.

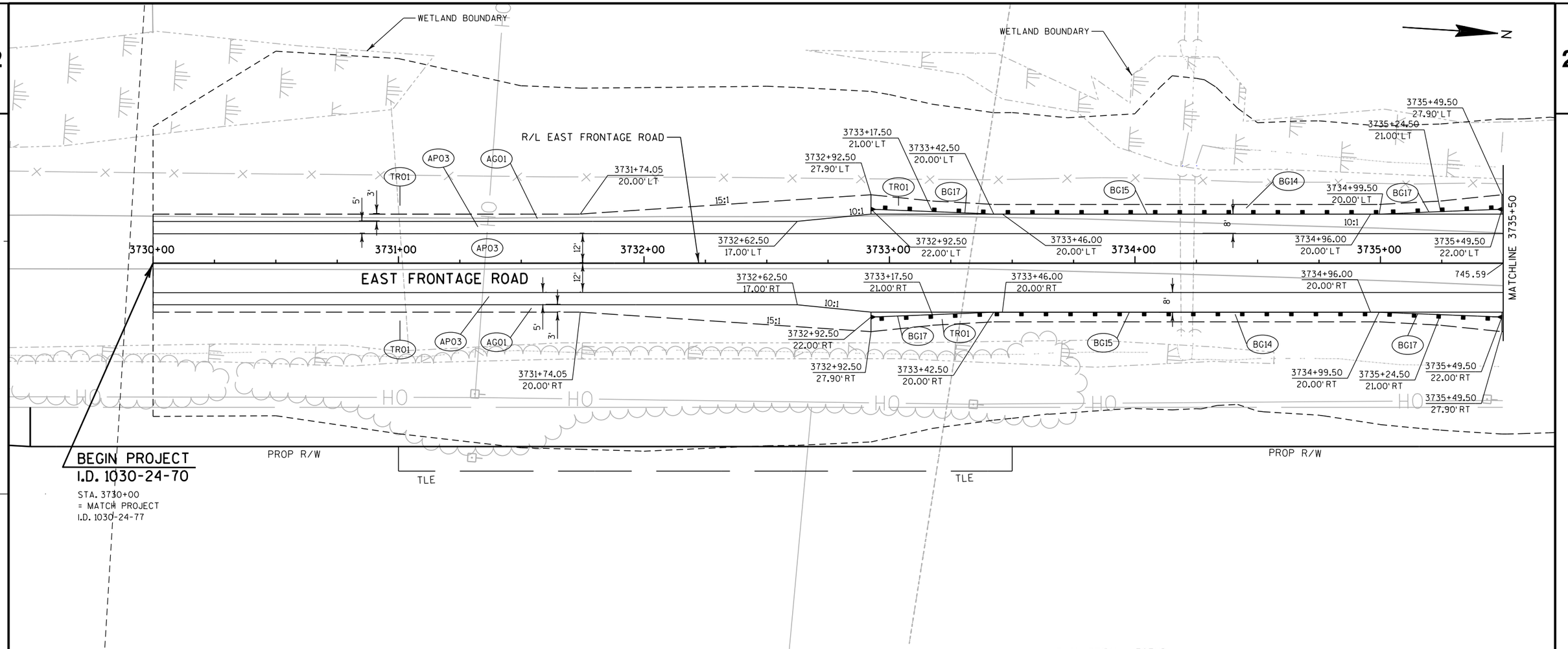
2) STA 5763+00 TO STA 5779+00 AND STA 15+00 TO STA 19+80 SUBGRADE FILL MATERIAL WAS PREVIOUSLY PLACED BY OTHERS UNDER PROJECT ID 1030-24-76. REMOVE TOPSOIL AS REQUIRED WITHIN THE SLOPE INTERCEPTS PRIOR TO PLACING ANY REQUIRED FILL MATERIAL. REMOVE EXCESS FILL MATERIAL PLACED OVER CULVERT PIPES. PROTECT EXISTING CULVERT PIPES FROM DAMAGE DURING CONSTRUCTION. TOPSOIL REMOVAL WITHIN THE ROADBED TO BE PAID FOR UNDER ITEM PREPARE FOUNDATION FOR BASE AGGREGATE. TOPSOIL REMOVAL BETWEEN THE SUBGRADE SHOULDER POINT AND THE SLOPE INTERCEPT TO BE PAID FOR UNDER ITEM SALVAGED TOPSOIL.

NOTE:
REMOVALS FROM STA 5763+00 TO STA 5779+00
COMPLETED BY OTHERS UNDER PROJECT ID 1030-24-76,
FRONTAGE ROAD GRADING

REMOVAL LEGEND

- X — CLEARING AND GRUBBING (I.D.)
- CLEARING AND GRUBBING (STA.)
- REMOVING PAVEMENT
- REMOVING CURB AND GUTTER
- REMOVING CONCRETE BARRIER
- REMOVING FENCE
- REMOVING GUARDRAIL
- REMOVING INLETS
- REMOVING MANHOLES
- RM — REMOVING STORM SEWER, CULVERT, DRAIN TILE, OR UNDERDRAIN
- SLOPE INTERCEPT

PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	REMOVAL PLAN: EAST FRONTAGE ROAD	SHEET 37	E

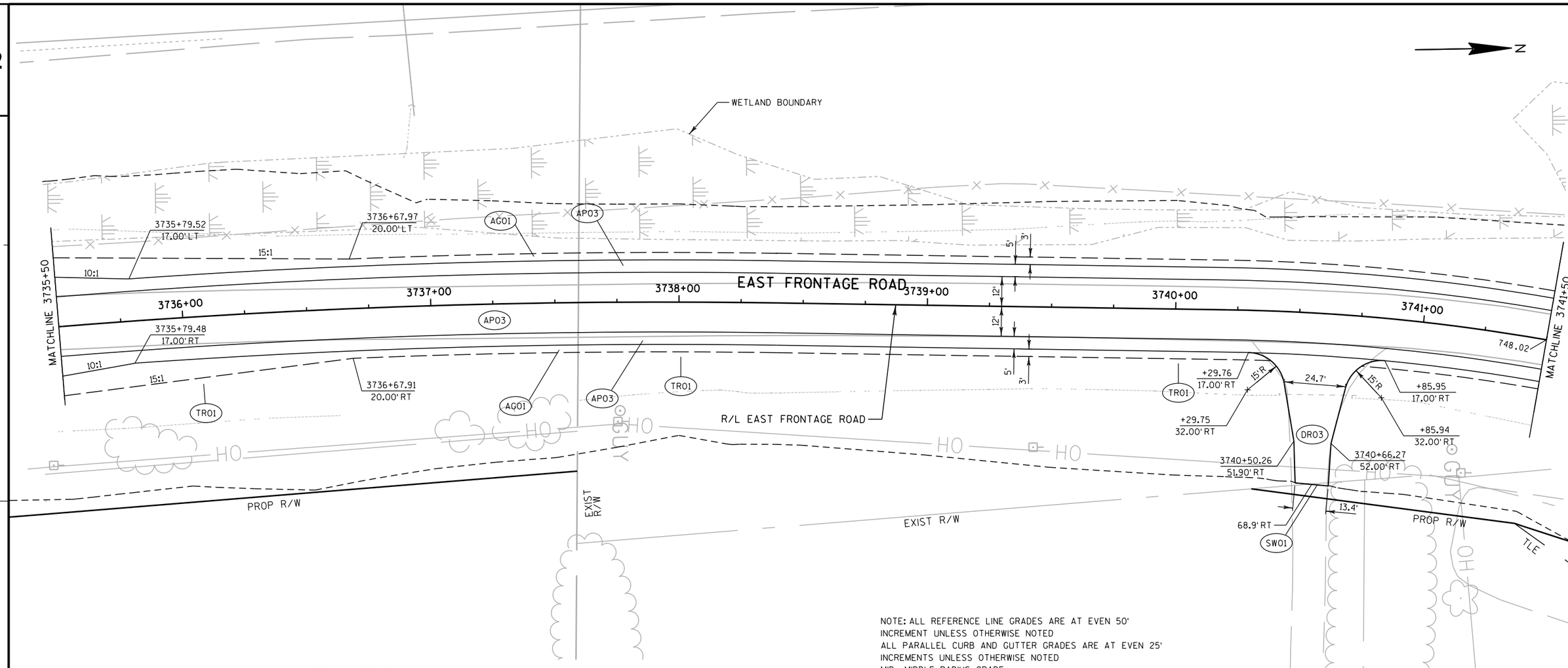


NOTE: ALL REFERENCE LINE GRADES ARE AT EVEN 50'
INCREMENT UNLESS OTHERWISE NOTED
ALL PARALLEL CURB AND GUTTER GRADES ARE AT EVEN 25'
INCREMENTS UNLESS OTHERWISE NOTED
MID= MIDDLE RADIUS GRADE

PLAN DETAIL LEGEND

AP03	HMA PAVEMENT 4 LT 58-28 S, 2¼-INCH (UPPER LAYER) HMA PAVEMENT 3 LT 58-28 S, 3¼-INCH (LOWER LAYER)	BG04	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
AG01	BASE AGGREGATE DENSE ¾-INCH	BG12	STEEL THRIE BEAM
PV05	ASPHALTIC FLUME	BG14	GUARD RAIL MOW STRIP ASPHALT
CG04	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D	BG15	MGS GUARDRAIL 3
CG05	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D REVERSE SLOPE	BG17	MGS GUARDRAIL TERMINAL EAT
CG18	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D	SW01	SAWING ASPHALT
CM01	CONCRETE MEDIAN SLOPED NOSE TYPE 1	SW02	SAWING CONCRETE
CM05	CONCRETE SIDEWALK, 5-INCH	TR01	RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
DR03	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH	PU01	PIPE UNDERDRAIN 6-INCH
DR07	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 4-INCH	PU02	PIPE UNDERDRAIN UNPERFORATED 6-INCH

PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL: EAST FRONTAGE ROAD	SHEET 38	E



NOTE: ALL REFERENCE LINE GRADES ARE AT EVEN 50'
INCREMENT UNLESS OTHERWISE NOTED
ALL PARALLEL CURB AND GUTTER GRADES ARE AT EVEN 25'
INCREMENTS UNLESS OTHERWISE NOTED
MID= MIDDLE RADIUS GRADE

PLAN DETAIL LEGEND

- (APO3) HMA PAVEMENT 4 LT 58-28 S, 2¼-INCH (UPPER LAYER)
  HMA PAVEMENT 3 LT 58-28 S, 3¼-INCH (LOWER LAYER)
- (AG01) BASE AGGREGATE DENSE ¾-INCH
- (PV05) ASPHALTIC FLUME
- (CG04) CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
- (CG05) CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D REVERSE SLOPE
- (CG18) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- (CM01) CONCRETE MEDIAN SLOPED NOSE TYPE 1
- (CM05) CONCRETE SIDEWALK, 5-INCH
- (DR03) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- (DR07) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 4-INCH
- (BG04) STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
- (BG12) STEEL THRIE BEAM
- (BG14) GUARD RAIL MOW STRIP ASPHALT
- (BG15) MGS GUARDRAIL 3
- (BG17) MGS GUARDRAIL TERMINAL EAT
- (SW01) SAWING ASPHALT
- (SW02) SAWING CONCRETE
- (TR01) RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- (PU01) PIPE UNDERDRAIN 6-INCH
- (PU02) PIPE UNDERDRAIN UNPERFORATED 6-INCH

NOTE: ALL REFERENCE LINE GRADES ARE AT EVEN 50' INCREMENT UNLESS OTHERWISE NOTED
ALL PARALLEL CURB AND GUTTER GRADES ARE AT EVEN 25' INCREMENTS UNLESS OTHERWISE NOTED
MID= MIDDLE RADIUS GRADE

WETLAND BOUNDARY
WETLAND BOUNDARY
WETLAND BOUNDARY

MATCHLINE 3741+50
3742+00
3743+00
3744+00
EAST FRONTAGE ROAD
3745+00
3746+00
3747+00
MATCHLINE 3747+50
751.27

R/L EAST FRONTAGE ROAD
PROP R/W
TLE
EXIST R/W

TR01
AG01
AP03
3'
5'
12'

PLAN DETAIL LEGEND

AP03	HMA PAVEMENT 4 LT 58-28 S, 2¼-INCH (UPPER LAYER) HMA PAVEMENT 3 LT 58-28 S, 3¼-INCH (LOWER LAYER)	BG04	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
AG01	BASE AGGREGATE DENSE ¾-INCH	BG12	STEEL THRIE BEAM
PV05	ASPHALTIC FLUME	BG14	GUARD RAIL MOW STRIP ASPHALT
CG04	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D	BG15	MGS GUARDRAIL 3
CG05	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D REVERSE SLOPE	BG17	MGS GUARDRAIL TERMINAL EAT
CG18	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D	SW01	SAWING ASPHALT
CM01	CONCRETE MEDIAN SLOPED NOSE TYPE 1	SW02	SAWING CONCRETE
CM05	CONCRETE SIDEWALK, 5-INCH	TR01	RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
DR03	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH	PU01	PIPE UNDERDRAIN 6-INCH
DR07	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 4-INCH	PU02	PIPE UNDERDRAIN UNPERFORATED 6-INCH

PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL: EAST FRONTAGE ROAD	SHEET 40	E

2

WETLAND BOUNDARY

BEGIN CONSTRUCTION
STA 30+20.00
= STA 3751+19.89, 20' RT
EAST FRONTAGE ROAD

MATCHLINE 3747+50

MATCHLINE 3753+50

EAST FRONTAGE ROAD

3748+00 3749+00 3750+00 3751+00 3752+00 3753+00

754.51

TRO1 AGO1 APO3 DRO3

3' 5' 12'

+72.93 17.00' RT
+72.93 32.00' RT
+22.43 17.00' RT
+22.43 32.00' RT
+95.46 17.00' RT
+95.46 32.00' RT
+43.59 17.01' RT
+43.59 32.00' RT

15'R 19.5' 20'

R/L EAST FRONTAGE ROAD

R/L PRIVATE DRIVEWAY "B"

EXIST R/W

76.8' RT

PROP R/W

TLE

3751+79.47
120.17' RT

3751+66.25
133.09' RT

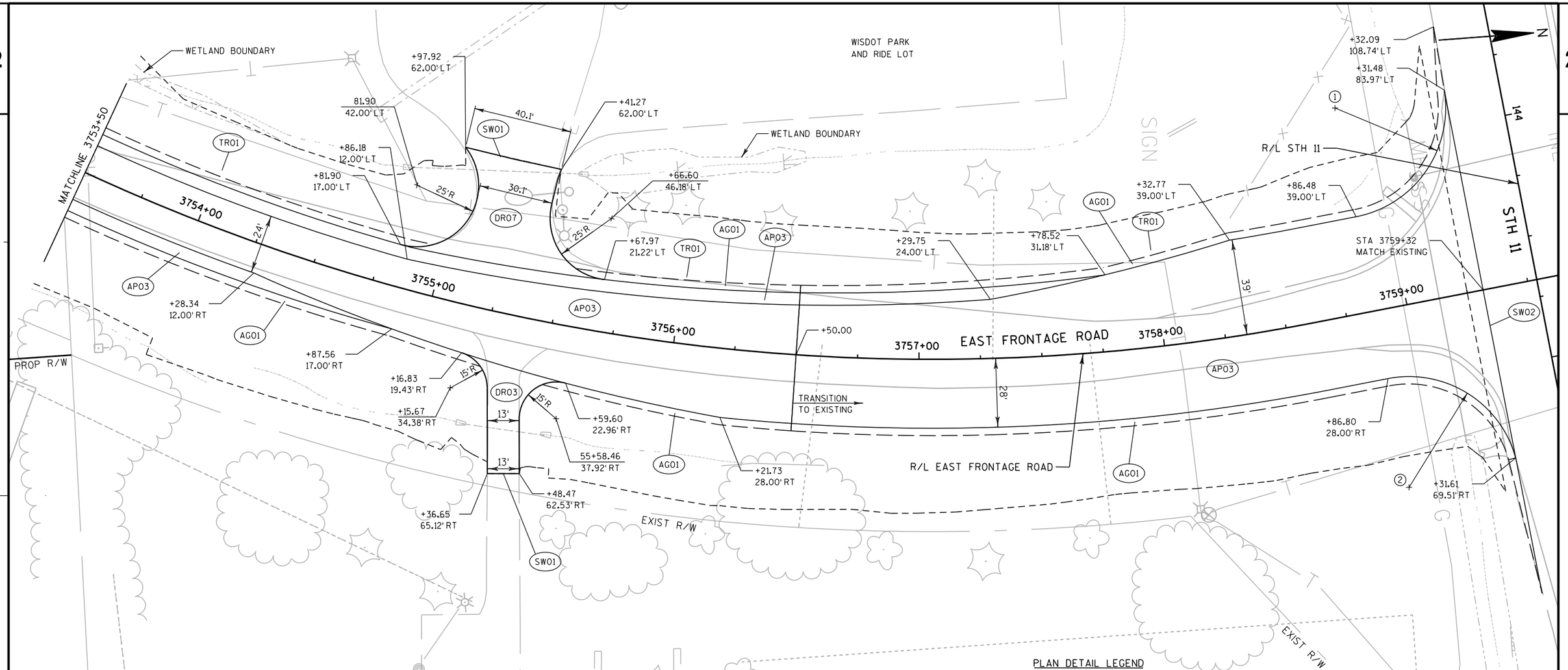
END CONSTRUCTION
STA 31+46.87
= STA 3751+72.82, 126.60' RT
EAST FRONTAGE ROAD

NOTE: ALL REFERENCE LINE GRADES ARE AT EVEN 50' INCREMENT UNLESS OTHERWISE NOTED
ALL PARALLEL CURB AND GUTTER GRADES ARE AT EVEN 25' INCREMENTS UNLESS OTHERWISE NOTED
MID= MIDDLE RADIUS GRADE

PLAN DETAIL LEGEND

- APO3 — HMA PAVEMENT 4 LT 58-28 S, 2¼-INCH (UPPER LAYER) / HMA PAVEMENT 3 LT 58-28 S, 3¼-INCH (LOWER LAYER)
- AGO1 — BASE AGGREGATE DENSE ¾-INCH
- PVO5 — ASPHALTIC FLUME
- CGO4 — CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
- CGO5 — CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D REVERSE SLOPE
- CG18 — CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- CMO1 — CONCRETE MEDIAN SLOPED NOSE TYPE 1
- CMO5 — CONCRETE SIDEWALK, 5-INCH
- DRO3 — ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- DRO7 — ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 4-INCH
- BGO4 — STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
- BG12 — STEEL THRIE BEAM
- BG14 — GUARD RAIL MOW STRIP ASPHALT
- BG15 — MGS GUARDRAIL 3
- BG17 — MGS GUARDRAIL TERMINAL EAT
- SWO1 — SAWING ASPHALT
- SWO2 — SAWING CONCRETE
- TRO1 — RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- PUO1 — PIPE UNDERDRAIN 6-INCH
- PUO2 — PIPE UNDERDRAIN UNPERFORATED 6-INCH

PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL: EAST FRONTAGE ROAD	SHEET 41	E



NOTE: ALL REFERENCE LINE GRADES ARE AT EVEN 50'
INCREMENT UNLESS OTHERWISE NOTED
ALL PARALLEL CURB AND GUTTER GRADES ARE AT EVEN 25'
INCREMENTS UNLESS OTHERWISE NOTED
MID= MIDDLE RADIUS GRADE

NOTE: EAST FRONTAGE ROAD CROSS SLOPE AT STH 11 MATCH SHOWN IN CROSS SECTIONS

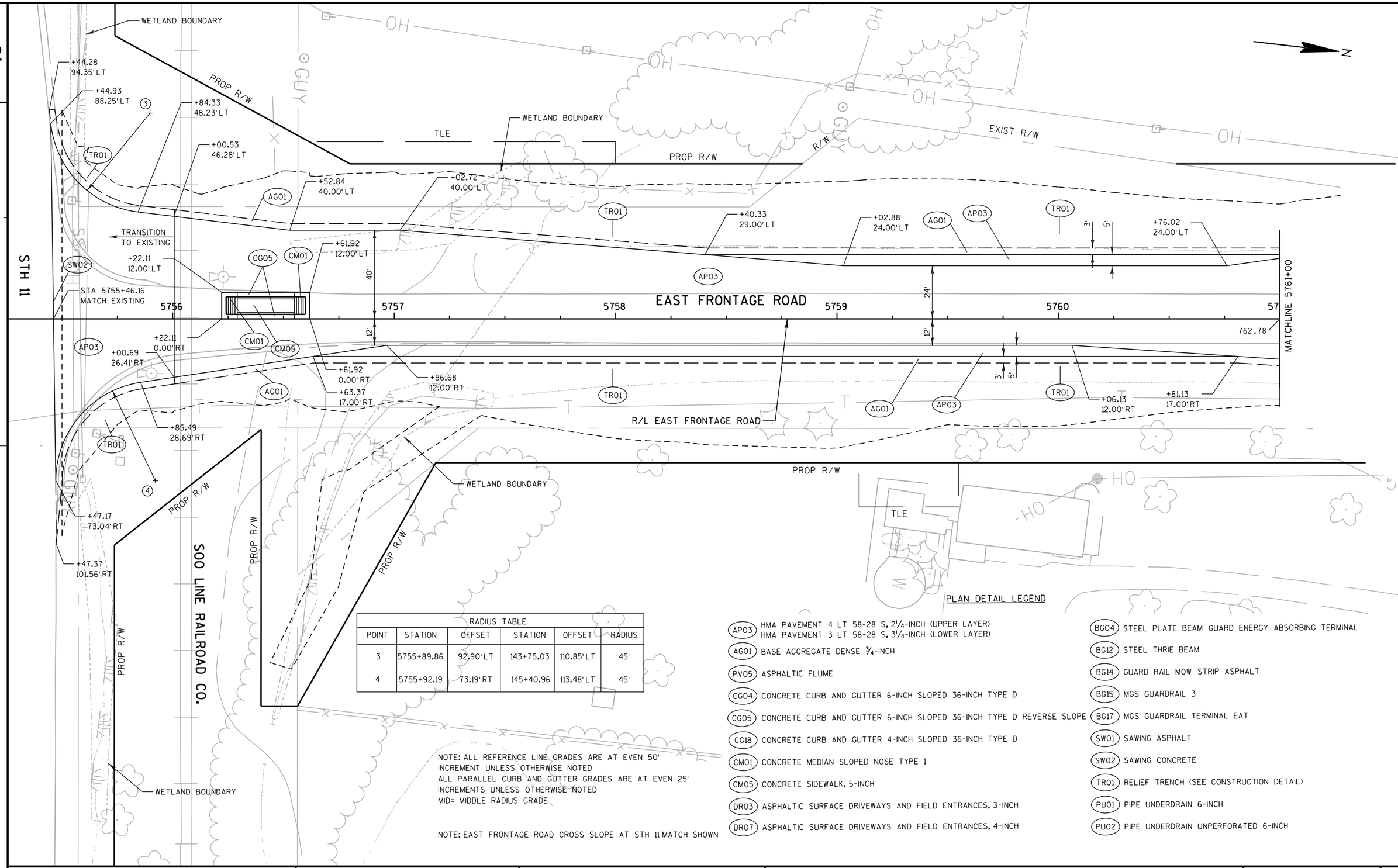
RADIUS TABLE

POINT	STATION	OFFSET	STATION	OFFSET	RADIUS
1	3758+86.48	84.00' LT	143+83.94	67.38' RT	45'
2	3758+86.80	73.00' RT	145+41.04	66.98' RT	45'

PLAN DETAIL LEGEND

- (APO3) HMA PAVEMENT 4 LT 58-28 S, 2¼-INCH (UPPER LAYER); HMA PAVEMENT 3 LT 58-28 S, 3¼-INCH (LOWER LAYER)
- (AGO1) BASE AGGREGATE DENSE ¾-INCH
- (PVO5) ASPHALTIC FLUME
- (CGO4) CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
- (CGO5) CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D REVERSE SLOPE
- (CGI8) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- (CMO1) CONCRETE MEDIAN SLOPED NOSE TYPE 1
- (CMO5) CONCRETE SIDEWALK, 5-INCH
- (DRO3) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- (DRO7) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 4-INCH
- (BGO4) STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
- (BG12) STEEL THRIE BEAM
- (BG14) GUARD RAIL MOW STRIP ASPHALT
- (BG15) MGS GUARDRAIL 3
- (BG17) MGS GUARDRAIL TERMINAL EAT
- (SWO1) SAWING ASPHALT
- (SWO2) SAWING CONCRETE
- (TRO1) RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- (PU01) PIPE UNDERDRAIN 6-INCH
- (PU02) PIPE UNDERDRAIN UNPERFORATED 6-INCH

PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL: EAST FRONTAGE ROAD	SHEET 42	E



RADIUS TABLE					
POINT	STATION	OFFSET	STATION	OFFSET	RADIUS
3	5755+89.86	92.90' LT	143+75.03	110.85' LT	45'
4	5755+92.19	73.19' RT	145+40.96	113.48' LT	45'

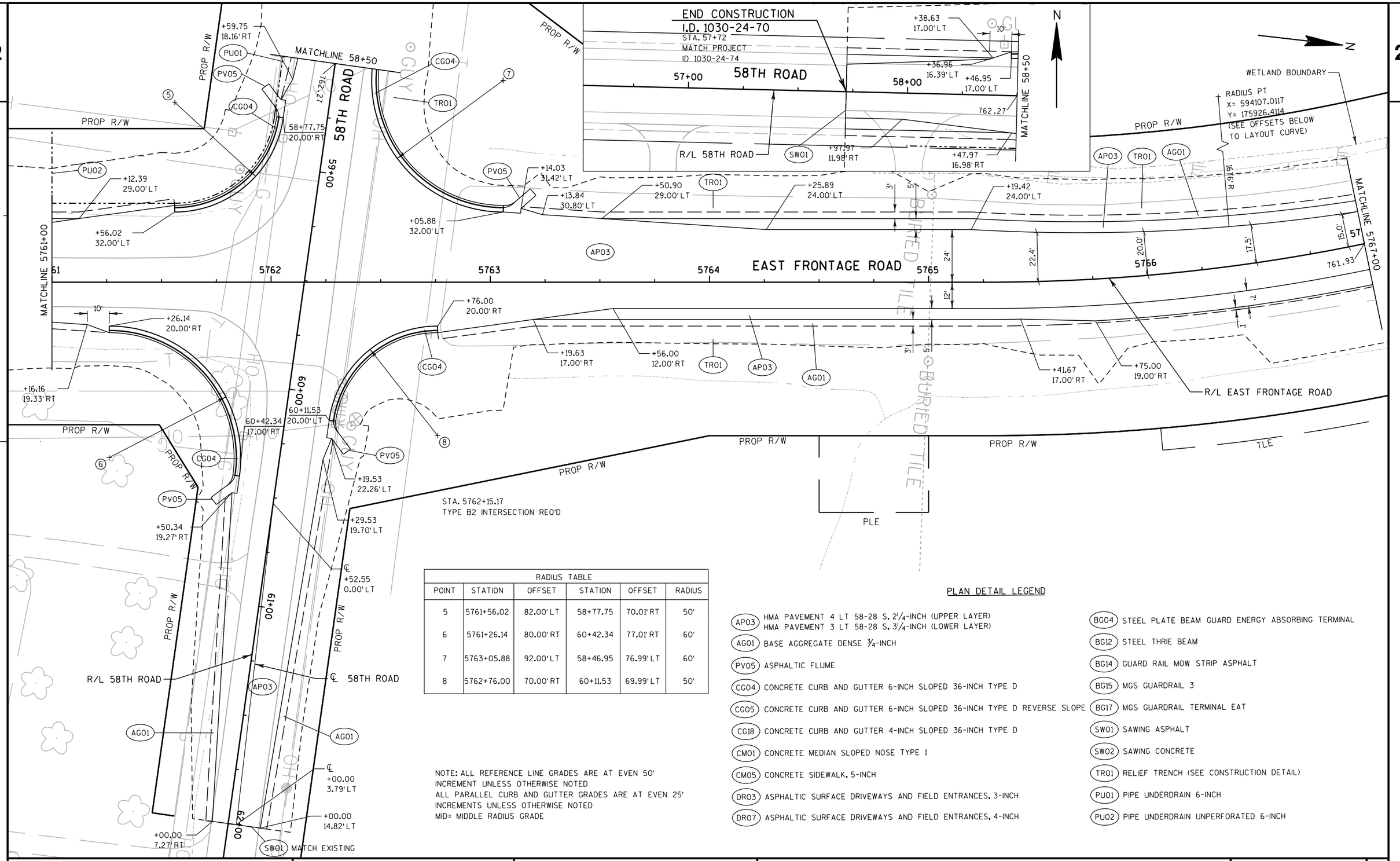
NOTE: ALL REFERENCE LINE GRADES ARE AT EVEN 50' INCREMENT UNLESS OTHERWISE NOTED
ALL PARALLEL CURB AND GUTTER GRADES ARE AT EVEN 25' INCREMENTS UNLESS OTHERWISE NOTED
MID= MIDDLE RADIUS GRADE

NOTE: EAST FRONTAGE ROAD CROSS SLOPE AT STH 11 MATCH SHOWN

PLAN DETAIL LEGEND

- APO3 — HMA PAVEMENT 4 LT 58-28 S, 2¼-INCH (UPPER LAYER) / HMA PAVEMENT 3 LT 58-28 S, 3¼-INCH (LOWER LAYER)
- AGO1 — BASE AGGREGATE DENSE ¾-INCH
- PVO5 — ASPHALTIC FLUME
- CGO4 — CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
- CGO5 — CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D REVERSE SLOPE
- CG18 — CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- CMO1 — CONCRETE MEDIAN SLOPED NOSE TYPE 1
- CMO5 — CONCRETE SIDEWALK, 5-INCH
- DRO3 — ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- DRO7 — ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 4-INCH
- BGO4 — STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
- BG12 — STEEL THRIE BEAM
- BG14 — GUARD RAIL MOW STRIP ASPHALT
- BG15 — MGS GUARDRAIL 3
- BG17 — MGS GUARDRAIL TERMINAL EAT
- SWO1 — SAWING ASPHALT
- SWO2 — SAWING CONCRETE
- TRO1 — RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- PUO1 — PIPE UNDERDRAIN 6-INCH
- PUO2 — PIPE UNDERDRAIN UNPERFORATED 6-INCH

PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL: EAST FRONTAGE ROAD	SHEET 43	E



RADIUS TABLE					
POINT	STATION	OFFSET	STATION	OFFSET	RADIUS
5	5761+56.02	82.00' LT	58+77.75	70.01' RT	50'
6	5761+26.14	80.00' RT	60+42.34	77.01' RT	60'
7	5763+05.88	92.00' LT	58+46.95	76.99' LT	60'
8	5762+76.00	70.00' RT	60+11.53	69.99' LT	50'

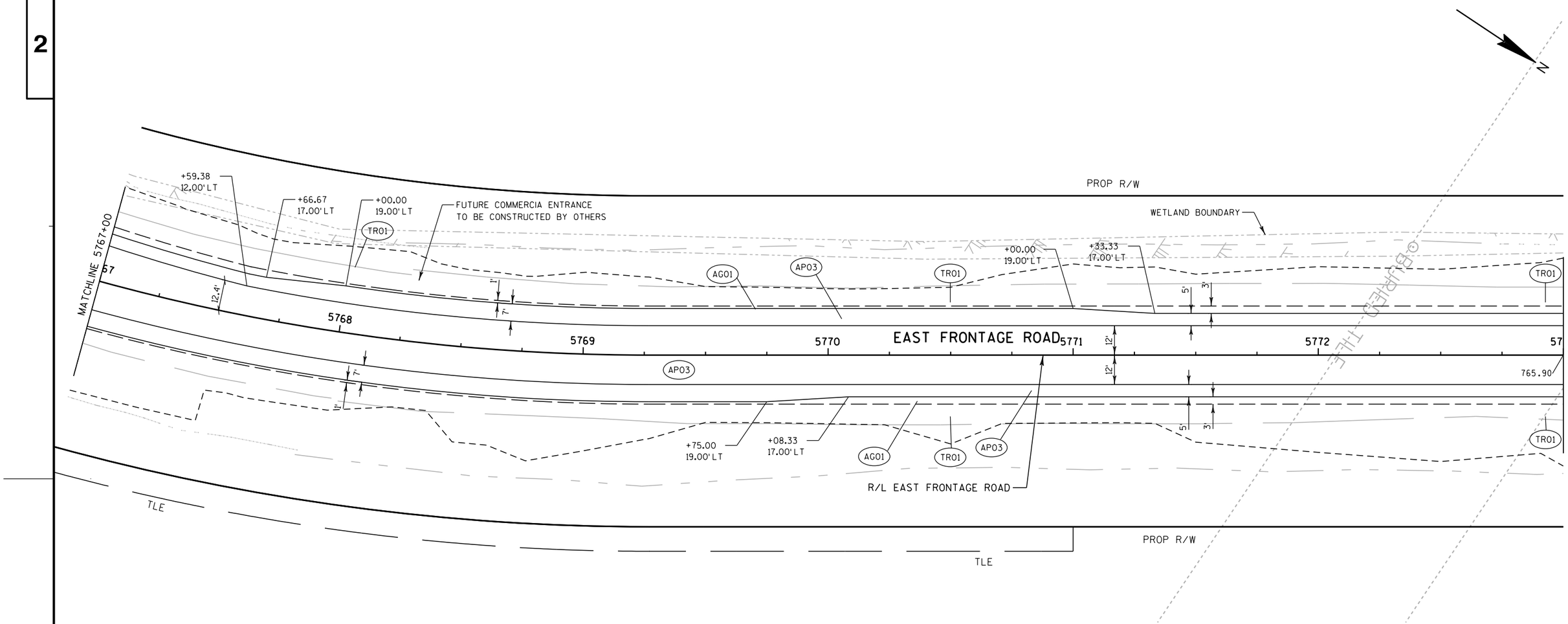
NOTE: ALL REFERENCE LINE GRADES ARE AT EVEN 50'
INCREMENT UNLESS OTHERWISE NOTED
ALL PARALLEL CURB AND GUTTER GRADES ARE AT EVEN 25'
INCREMENTS UNLESS OTHERWISE NOTED
MID= MIDDLE RADIUS GRADE

PLAN DETAIL LEGEND

AP03	HMA PAVEMENT 4 LT 58-28 S, 2¼-INCH (UPPER LAYER) HMA PAVEMENT 3 LT 58-28 S, 3¼-INCH (LOWER LAYER)
AG01	BASE AGGREGATE DENSE ¾-INCH
PV05	ASPHALTIC FLUME
CG04	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
CG05	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D REVERSE SLOPE
CG18	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
CM01	CONCRETE MEDIAN SLOPED NOSE TYPE 1
CM05	CONCRETE SIDEWALK, 5-INCH
DR03	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
DR07	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 4-INCH
BG04	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
BG12	STEEL THRIE BEAM
BG14	GUARD RAIL MOW STRIP ASPHALT
BG15	MGS GUARDRAIL 3
BG17	MGS GUARDRAIL TERMINAL EAT
SW01	SAWING ASPHALT
SW02	SAWING CONCRETE
TR01	RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
PU01	PIPE UNDERDRAIN 6-INCH
PU02	PIPE UNDERDRAIN UNPERFORATED 6-INCH

PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL: EAST FRONTAGE ROAD	SHEET 44	E

2

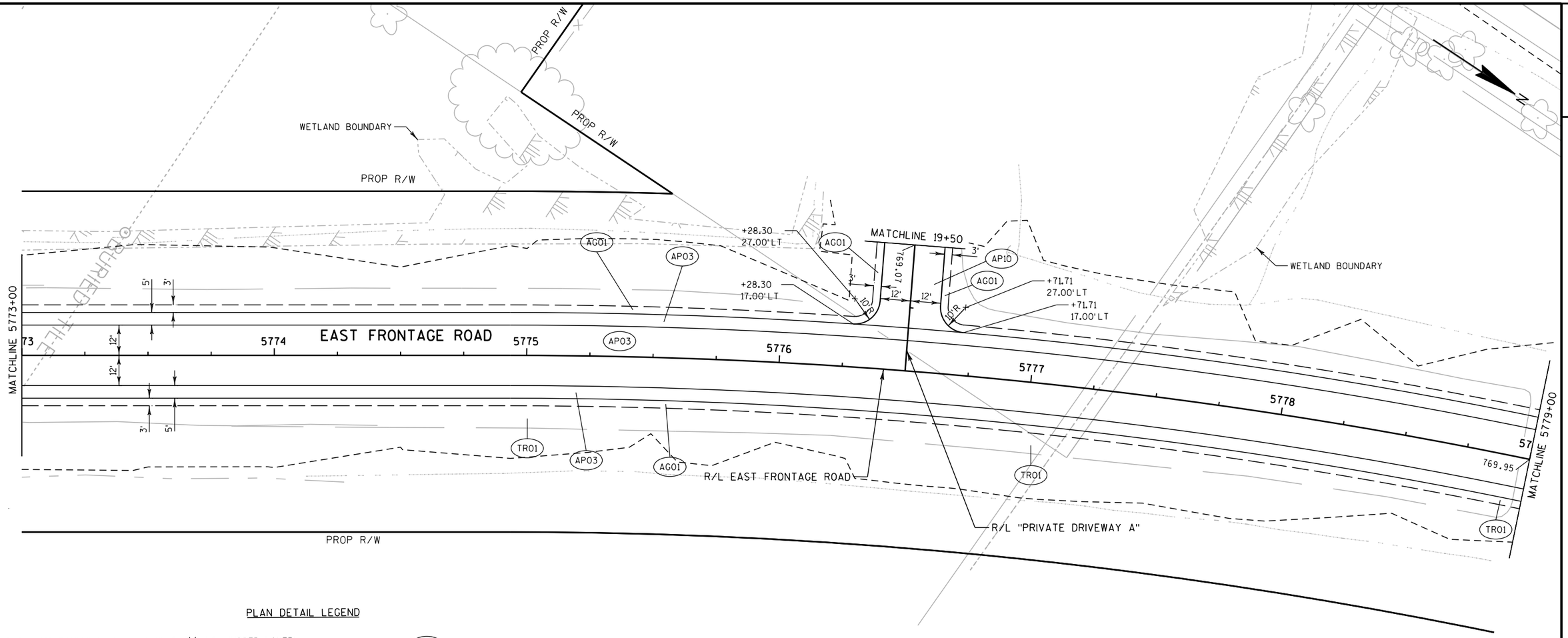


PLAN DETAIL LEGEND

APO3	HMA PAVEMENT 4 LT 58-28 S, 2¼-INCH (UPPER LAYER) HMA PAVEMENT 3 LT 58-28 S, 3¼-INCH (LOWER LAYER)	BG04	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
AG01	BASE AGGREGATE DENSE ¾-INCH	BG12	STEEL THRIE BEAM
PV05	ASPHALTIC FLUME	BG14	GUARD RAIL MOW STRIP ASPHALT
CG04	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D	BG15	MGS GUARDRAIL 3
CG05	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D REVERSE SLOPE	BG17	MGS GUARDRAIL TERMINAL EAT
CG18	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D	SW01	SAWING ASPHALT
CM01	CONCRETE MEDIAN SLOPED NOSE TYPE 1	SW02	SAWING CONCRETE
CM05	CONCRETE SIDEWALK, 5-INCH	TR01	RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
DR03	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH	PU01	PIPE UNDERDRAIN 6-INCH
DR07	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 4-INCH	PU02	PIPE UNDERDRAIN UNPERFORATED 6-INCH

NOTE: ALL REFERENCE LINE GRADES ARE AT EVEN 50'
INCREMENT UNLESS OTHERWISE NOTED
ALL PARALLEL CURB AND GUTTER GRADES ARE AT EVEN 25'
INCREMENTS UNLESS OTHERWISE NOTED
MID= MIDDLE RADIUS GRADE

PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL: EAST FRONTAGE ROAD	SHEET 45	E



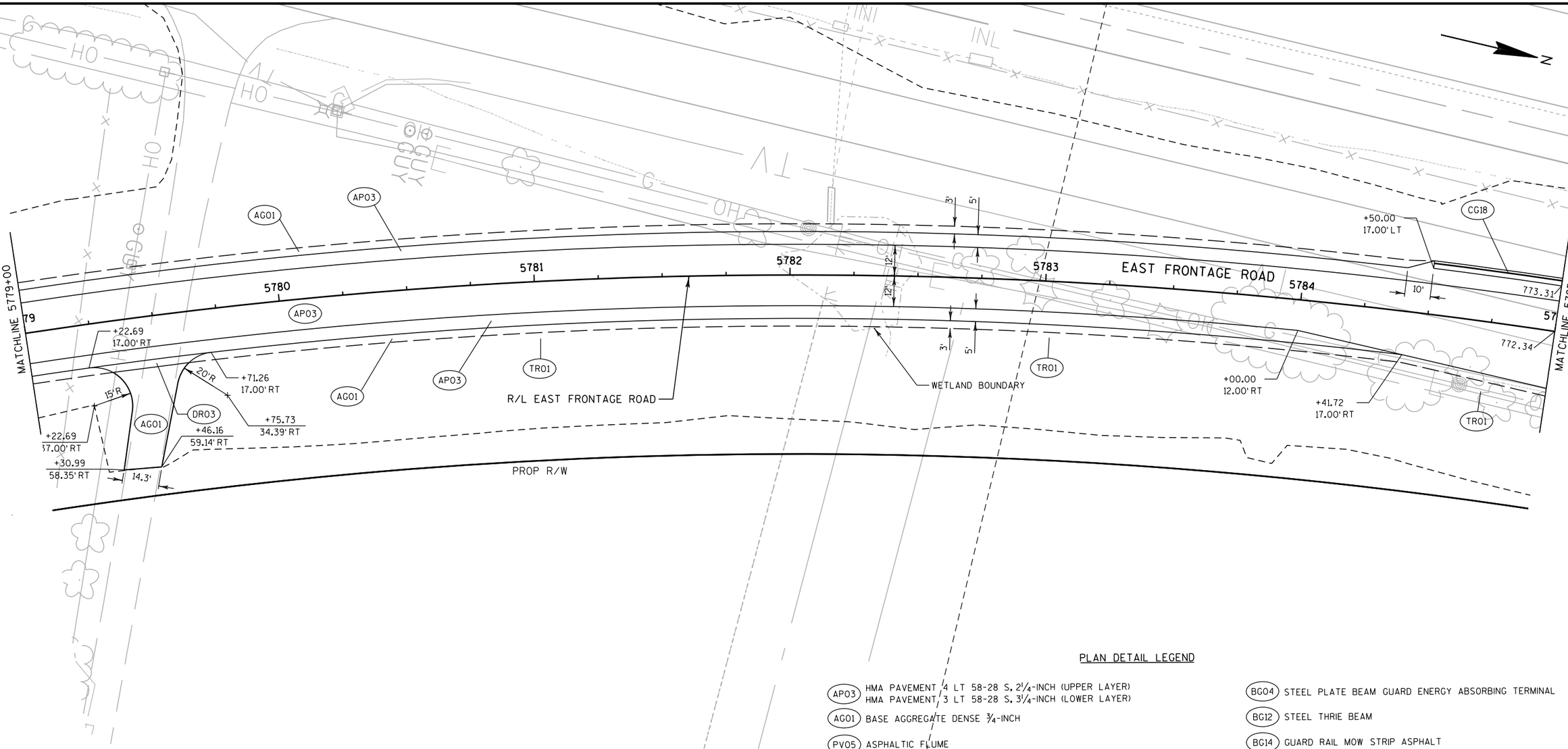
PLAN DETAIL LEGEND

- (AP03) HMA PAVEMENT 4 LT 58-28 S, 2¼-INCH (UPPER LAYER) / HMA PAVEMENT 3 LT 58-28 S, 3¼-INCH (LOWER LAYER)
- (AG01) BASE AGGREGATE DENSE ¾-INCH
- (PV05) ASPHALTIC FLUME
- (CG04) CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
- (CG05) CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D REVERSE SLOPE
- (CG18) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- (CM01) CONCRETE MEDIAN SLOPED NOSE TYPE 1
- (CM05) CONCRETE SIDEWALK, 5-INCH
- (DR03) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- (DR07) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 4-INCH
- (BG04) STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
- (BG12) STEEL THRIE BEAM
- (BG14) GUARD RAIL MOW STRIP ASPHALT
- (BG15) MGS GUARDRAIL 3
- (BG17) MGS GUARDRAIL TERMINAL EAT
- (SW01) SAWING ASPHALT
- (SW02) SAWING CONCRETE
- (TR01) RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- (PU01) PIPE UNDERDRAIN 6-INCH
- (PU02) PIPE UNDERDRAIN UNPERFORATED 6-INCH

NOTE: ALL REFERENCE LINE GRADES ARE AT EVEN 50'
INCREMENT UNLESS OTHERWISE NOTED
ALL PARALLEL CURB AND GUTTER GRADES ARE AT EVEN 25'
INCREMENTS UNLESS OTHERWISE NOTED
MID= MIDDLE RADIUS GRADE

PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL: EAST FRONTAGE ROAD	SHEET 46	E

2

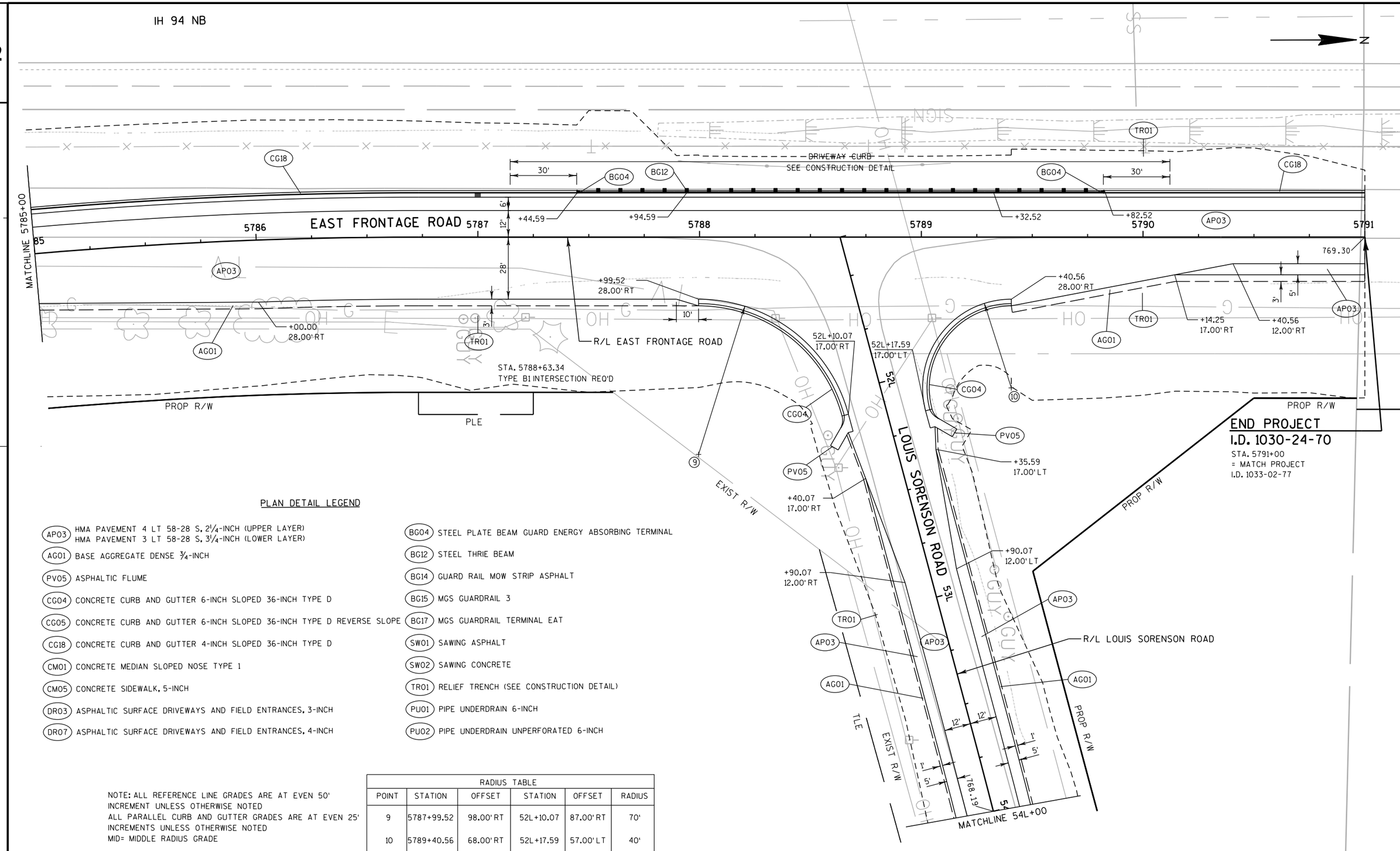


NOTE: ALL REFERENCE LINE GRADES ARE AT EVEN 50'
INCREMENT UNLESS OTHERWISE NOTED
ALL PARALLEL CURB AND GUTTER GRADES ARE AT EVEN 25'
INCREMENTS UNLESS OTHERWISE NOTED
MID= MIDDLE RADIUS GRADE

PLAN DETAIL LEGEND

AP03	HMA PAVEMENT 4 LT 58-28 S, 2¼-INCH (UPPER LAYER) HMA PAVEMENT 3 LT 58-28 S, 3¼-INCH (LOWER LAYER)
AG01	BASE AGGREGATE DENSE ¾-INCH
PV05	ASPHALTIC FLUME
CG04	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
CG05	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D REVERSE SLOPE
CG18	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
CM01	CONCRETE MEDIAN SLOPED NOSE TYPE 1
CM05	CONCRETE SIDEWALK, 5-INCH
DR03	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
DR07	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 4-INCH
BG04	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
BG12	STEEL THRIE BEAM
BG14	GUARD RAIL MOW STRIP ASPHALT
BG15	MGS GUARDRAIL 3
BG17	MGS GUARDRAIL TERMINAL EAT
SW01	SAWING ASPHALT
SW02	SAWING CONCRETE
TR01	RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
PU01	PIPE UNDERDRAIN 6-INCH
PU02	PIPE UNDERDRAIN UNPERFORATED 6-INCH

PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL: EAST FRONTAGE ROAD	SHEET 47	E



PLAN DETAIL LEGEND

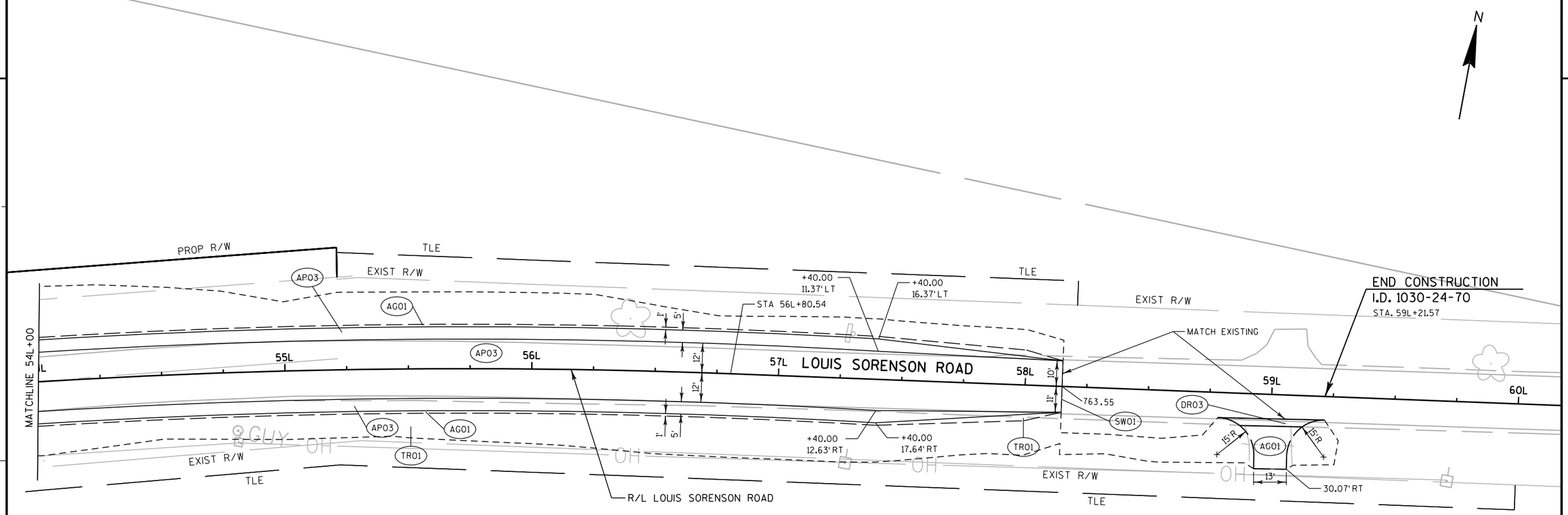
APO3	HMA PAVEMENT 4 LT 58-28 S, 2¼-INCH (UPPER LAYER) HMA PAVEMENT 3 LT 58-28 S, 3¼-INCH (LOWER LAYER)
AG01	BASE AGGREGATE DENSE ¾-INCH
PV05	ASPHALTIC FLUME
CG04	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
CG05	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D REVERSE SLOPE
CG18	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
CM01	CONCRETE MEDIAN SLOPED NOSE TYPE 1
CM05	CONCRETE SIDEWALK, 5-INCH
DR03	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
DR07	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 4-INCH
BG04	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
BG12	STEEL THRIE BEAM
BG14	GUARD RAIL MOW STRIP ASPHALT
BG15	MGS GUARDRAIL 3
BG17	MGS GUARDRAIL TERMINAL EAT
SW01	SAWING ASPHALT
SW02	SAWING CONCRETE
TR01	RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
PU01	PIPE UNDERDRAIN 6-INCH
PU02	PIPE UNDERDRAIN UNPERFORATED 6-INCH

NOTE: ALL REFERENCE LINE GRADES ARE AT EVEN 50' INCREMENT UNLESS OTHERWISE NOTED
ALL PARALLEL CURB AND GUTTER GRADES ARE AT EVEN 25' INCREMENTS UNLESS OTHERWISE NOTED
MID= MIDDLE RADIUS GRADE

RADIUS TABLE

POINT	STATION	OFFSET	STATION	OFFSET	RADIUS
9	5787+99.52	98.00' RT	52L+10.07	87.00' RT	70'
10	5789+40.56	68.00' RT	52L+17.59	57.00' LT	40'

PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL: EAST FRONTAGE ROAD	SHEET 48	E



NOTE: ALL REFERENCE LINE GRADES ARE AT EVEN 50'
INCREMENT UNLESS OTHERWISE NOTED
ALL PARALLEL CURB AND GUTTER GRADES ARE AT EVEN 25'
INCREMENTS UNLESS OTHERWISE NOTED
MID= MIDDLE RADIUS GRADE

PLAN DETAIL LEGEND

AP03	HMA PAVEMENT 4 LT 58-28 S, 2¼-INCH (UPPER LAYER) HMA PAVEMENT 3 LT 58-28 S, 3¼-INCH (LOWER LAYER)
AG01	BASE AGGREGATE DENSE ¾-INCH
PV05	ASPHALTIC FLUME
CG04	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
CG05	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D REVERSE SLOPE
CG18	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
CM01	CONCRETE MEDIAN SLOPED NOSE TYPE 1
CM05	CONCRETE SIDEWALK, 5-INCH
DR03	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
DR07	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 4-INCH
BG04	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
BG12	STEEL THRIE BEAM
BG14	GUARD RAIL MOW STRIP ASPHALT
BG15	MGS GUARDRAIL 3
BG17	MGS GUARDRAIL TERMINAL EAT
SW01	SAWING ASPHALT
SW02	SAWING CONCRETE
TR01	RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
PU01	PIPE UNDERDRAIN 6-INCH
PU02	PIPE UNDERDRAIN UNPERFORATED 6-INCH

PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL: LOUIS SORENSON ROAD	SHEET 49	E

EXISTING EAST FRONTAGE ROAD

BEGIN CONSTRUCTION
I.D. 1030-24-70
STA. 15+01.50

EXIST R/W

AG01

3"
12"
12"
3"

16+00

PRIVATE DRIVEWAY "A"

17+00

AP10

TLE

MATCH EXISTING

AG01

TLE

TLE

TLE

EXIST R/W

AG01

18+00

AG01

R/L "PRIVATE DRIVEWAY A"

19+00

WETLAND BOUNDARY

PROP R/W

NOTE: ALL REFERENCE LINE GRADES ARE AT EVEN 50' INCREMENT UNLESS OTHERWISE NOTED
ALL PARALLEL CURB AND GUTTER GRADES ARE AT EVEN 25' INCREMENTS UNLESS OTHERWISE NOTED
MID= MIDDLE RADIUS GRADE

MATCHLINE 19+50

PROP R/W

PROP R/W

PLAN DETAIL LEGEND

APO3	HMA PAVEMENT 4 LT 58-28 S, 2¼-INCH (UPPER LAYER) HMA PAVEMENT 3 LT 58-28 S, 3¼-INCH (LOWER LAYER)
AG01	BASE AGGREGATE DENSE ¾-INCH
PV05	ASPHALTIC FLUME
CG04	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
CG05	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D REVERSE SLOPE
CG18	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
CM01	CONCRETE MEDIAN SLOPED NOSE TYPE 1
CM05	CONCRETE SIDEWALK, 5-INCH
DR03	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
DR07	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 4-INCH
BG04	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
BG12	STEEL THRIE BEAM
BG14	GUARD RAIL MOW STRIP ASPHALT
BG15	MGS GUARDRAIL 3
BG17	MGS GUARDRAIL TERMINAL EAT
SW01	SAWING ASPHALT
SW02	SAWING CONCRETE
TR01	RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
PU01	PIPE UNDERDRAIN 6-INCH
PU02	PIPE UNDERDRAIN UNPERFORATED 6-INCH

PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL: PRIVATE DRIVEWAY "A"	SHEET 50	E

2

WEST FRONTAGE ROAD

WETLAND BOUNDARY

SEE PROJECT ID 1030-24-78 FOR WETLAND AND WATERWAY IMPACT INFORMATION

R/L WEST FRONTAGE ROAD

WETLAND BOUNDARY

SB ON RAMP

R/L SB ON RAMP

IH 94 SB

IH 94 NB

R/L IH 94

R/L NB OFF RAMP

NB OFF RAMP

WETLAND BOUNDARY

EAST FRONTAGE ROAD

WETLAND BOUNDARY

RIPRAP
L= 40 FT
W= 27 FT

PROP R/W

TLE

R/L EAST FRONTAGE ROAD

WETLAND BOUNDARY

EXIST R/W

PROP R/W

TLE

SEEDING MIXTURE NO. 40
APPROX. STA. 3736+75 TO 3745+00

MATCHLINE 3743+00

BEGIN PROJECT
I.D. 1030-24-70
STA. 3730+00
= MATCH PROJECT
I.D. 1030-24-77

LEGEND

- EROSION MAT CLASS I TYPE B
- EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- HEAVY DUTY SILT FENCE
- ROCK BAGS
- RIP RAP (LIGHT UNLESS NOTED)
- SLOPE INTERCEPT
- INLET PROTECTION TYPE A
- INLET PROTECTION TYPE C*
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW

NOTE:
* PLACE INLET PROTECTION TYPE A UNTIL CURB IS IN PLACE, THEN PLACE TYPE B, C, OR D AS INDICATED

PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	EROSION CONTROL: EAST FRONTAGE ROAD	SHEET 51	E

2

IH 94 SB

IH 94 NB

R/L IH 94

WETLAND BOUNDARY

R/L NB ON RAMP

NB ON RAMP

NB OFF RAMP

R/L NB OFF RAMP

R/L STH 11

STH 11

MATCHLINE 3760+00

WISDOT PARK AND RIDE LOT

WETLAND BOUNDARY

EXIST R/W

R/L EAST FRONTAGE ROAD

WETLAND BOUNDARY

DETENTION POND

DETENTION POND OUTLET STRUCTURE

+52.02 54.61'LT

+28.23 42.24'LT

+25.00 45.41'LT

+76.16 44.27'LT

+05.94 44.29'LT

+76.12 43.16'LT

+26.29 42.76'LT

+58.36 47.21'LT

+53.70 50.72'LT

+43.89 41.71'LT

+50.36 42.30'LT

+21.95 46.38'LT

+99.27 40.96'LT

+89.76 62.40'RT

+13.23 62.67'RT

+23.71 82.58'RT

EXIST R/W

SEEDING MIXTURE NO. 40 APPROX. STA. 3753+50 TO 3759+75

PROP R/W

TILE

EAST FRONTAGE ROAD

EXIST R/W

WETLAND BOUNDARY

+25.90 65.00'LT

+64.81 64.81'LT

+87.62 39.09'LT

+01.27 63.85'LT

+76.81 44.73'LT

+74.71 63.66'LT

+24.52 56.63'LT

+00.07 45.33'LT

+49.88 47.22'LT

+29.44 41.45'LT

RIPRAP L= 18 FT W= 8 FT

MATCHLINE 3743+00

SEEDING MIXTURE NO. 40 APPROX. STA. 3736+75 TO 3745+00

LEGEND

- EROSION MAT CLASS I TYPE B
- EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- HEAVY DUTY SILT FENCE
- ROCK BAGS
- RIP RAP (LIGHT UNLESS NOTED)
- SLOPE INTERCEPT
- INLET PROTECTION TYPE A
- INLET PROTECTION TYPE C*
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW

NOTE:
* PLACE INLET PROTECTION TYPE A UNTIL CURB IS IN PLACE, THEN PLACE TYPE B, C, OR D AS INDICATED

PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	EROSION CONTROL: EAST FRONTAGE ROAD	SHEET 52	E

2

NOTE:
1. STA 5763+00 TO STA 5779+00 EROSION CONTROL MEASURES INSTALLED BY OTHERS UNDER PROJECT ID 1030-24-76, FRONTAGE ROAD GRADING
2. EROSION CONTROL MEASURES LEFT IN PLACE FROM PROJECT ID 1030-24-76 SHALL BE REMOVED BY THE CONTRACTOR. PAYMENT IS INCLUDED IN THE FINISHING ROADWAY ITEM.

SEE PROJECT I.D. 1030-24-74 FOR ADDITIONAL EROSION CONTROL MEASURES

STH 11

SOO LINE RAILROAD CO.

58TH ROAD

R/L EAST FRONTAGE ROAD

R/L 58TH ROAD

R/L SWALE #3

R/L SWALE #4

RIPRAP
L= 12 FT
W= 12 FT

WETLAND BOUNDARY

SEEDING MIXTURE NO. 40
APPROX. STA. 5756+00 TO 5762+00

MATCHLINE 3760+00

MATCHLINE 5768+00

+00.00 38.45' RT
+78.62 43.62' RT
+77.39 50.24' RT
+59.63 70.13' RT
+51.29 99.03' RT
+11.40 40.51' RT
+76.05 69.76' RT
+12.85 49.96' LT
+03.86 44.10' LT
+19.55 50.44' LT
+95.12 45.24' LT
+78.58 53.98' LT
+50.06 49.73' LT
+41.43 48.05' LT
+75.29 45.77' LT
+88.63 45.60' LT
+26.33 43.10' LT
+24.98 38.48' LT
+49.77 41.81' LT
+94.15 35.26' LT
+66.42 33.36' LT
+50.48 36.47' LT

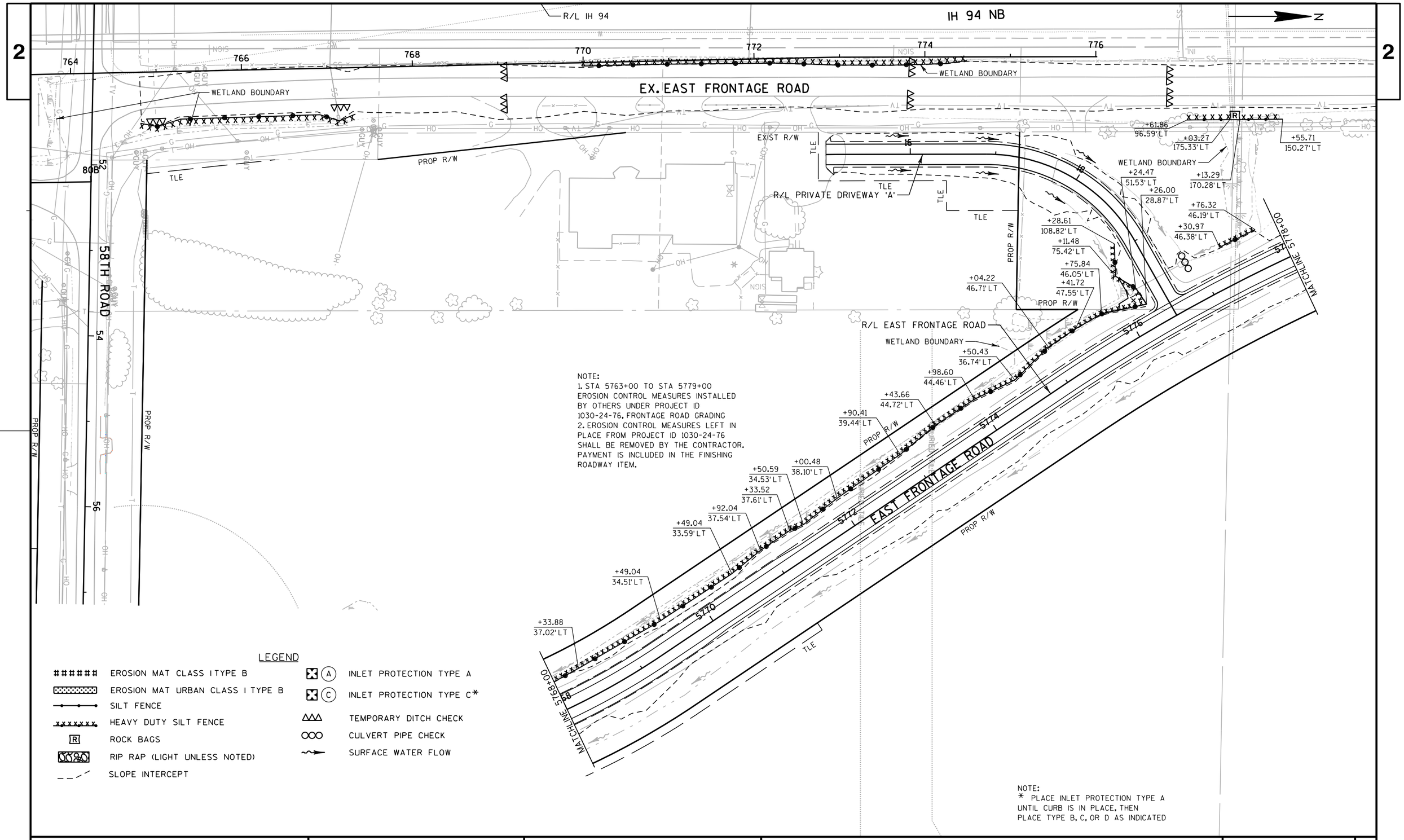
5756 5758 5760 5762 5764 5766

LEGEND

- EROSION MAT CLASS I TYPE B
- EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- HEAVY DUTY SILT FENCE
- ROCK BAGS
- RIP RAP (LIGHT UNLESS NOTED)
- SLOPE INTERCEPT
- INLET PROTECTION TYPE A
- INLET PROTECTION TYPE C*
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW

NOTE:
* PLACE INLET PROTECTION TYPE A UNTIL CURB IS IN PLACE, THEN PLACE TYPE B, C, OR D AS INDICATED

PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	EROSION CONTROL: EAST FRONTAGE ROAD	SHEET 53	E



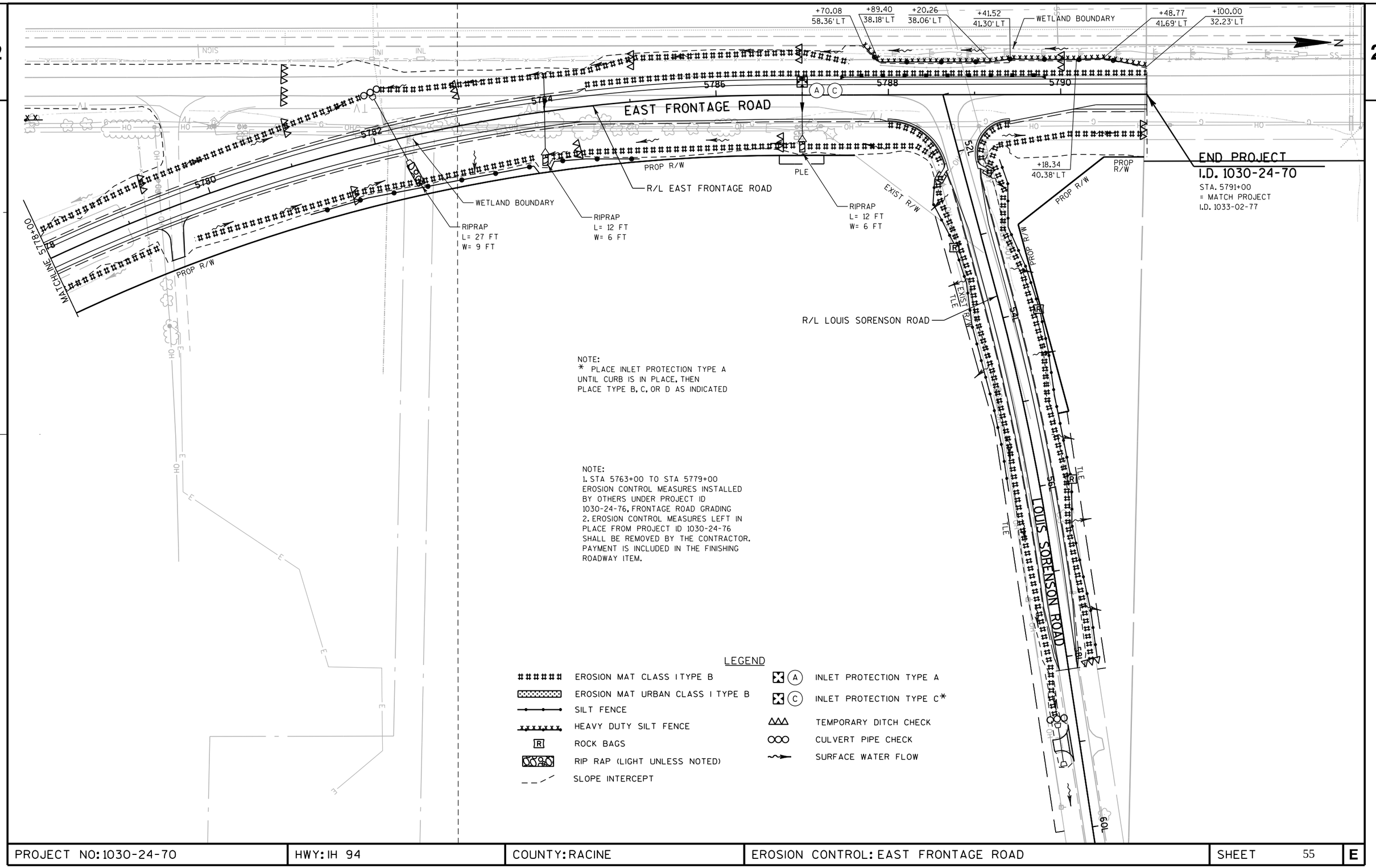
NOTE:
1. STA 5763+00 TO STA 5779+00 EROSION CONTROL MEASURES INSTALLED BY OTHERS UNDER PROJECT ID 1030-24-76, FRONTAGE ROAD GRADING
2. EROSION CONTROL MEASURES LEFT IN PLACE FROM PROJECT ID 1030-24-76 SHALL BE REMOVED BY THE CONTRACTOR. PAYMENT IS INCLUDED IN THE FINISHING ROADWAY ITEM.

LEGEND

- EROSION MAT CLASS I TYPE B
- EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- HEAVY DUTY SILT FENCE
- [R] ROCK BAGS
- RIP RAP (LIGHT UNLESS NOTED)
- SLOPE INTERCEPT
- (A) INLET PROTECTION TYPE A
- (C) INLET PROTECTION TYPE C*
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW

NOTE:
* PLACE INLET PROTECTION TYPE A UNTIL CURB IS IN PLACE, THEN PLACE TYPE B, C, OR D AS INDICATED

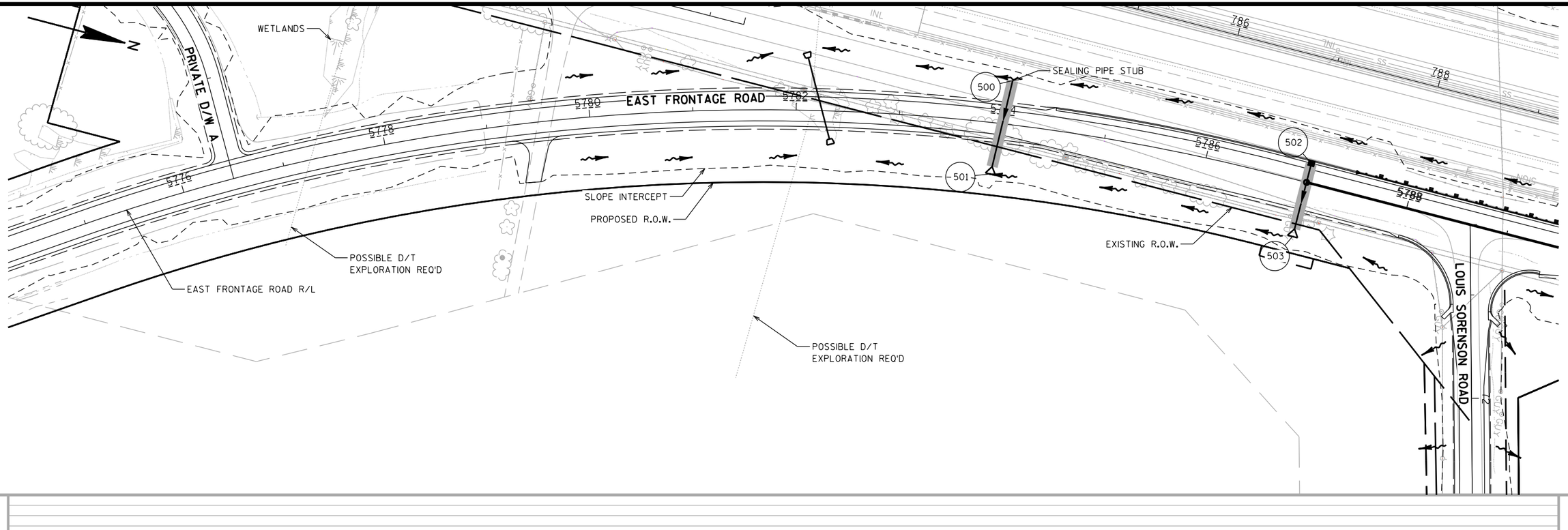
PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	EROSION CONTROL: EAST FRONTAGE ROAD	SHEET 54	E



PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	EROSION CONTROL: EAST FRONTAGE ROAD	SHEET 55	E

FILE NAME : Z:\Racine\CADDS\13\13E\CDS\022005_EC.dgn PLOT DATE : 7/31/2017 PLOT BY : bjw PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42



PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	STORM SEWER: SEG. 13 EFR	SHEET 56 E

FILE NAME : S:\2015\WisDOT\I-94_N-S\CADD files\CDS\SSE_IH-94_13EFR_SS1.dgn PLOT DATE : 11/28/2016 PLOT BY : Harlan PLOT NAME : _____ PLOT SCALE : 1:100

2

WEST FRONTAGE ROAD

R/L WEST FRONTAGE ROAD

SB ON RAMP

R/L SB ON RAMP

IH-94 SB

IH-94 NB

R/L IH 94

NB OFF RAMP

R/L NB OFF RAMP

NO PASSING ZONE

REMOVE
(1R03)

EAST FRONTAGE ROAD

R/L EAST FRONTAGE ROAD

MATCHLINE 3744+00

BEGIN PROJECT
I.D. 1030-24-70
STA. 3730+00
= MATCH PROJECT
I.D. 1030-24-77

45 M.P.H.

REMOVE
(1R01)
(1R02)

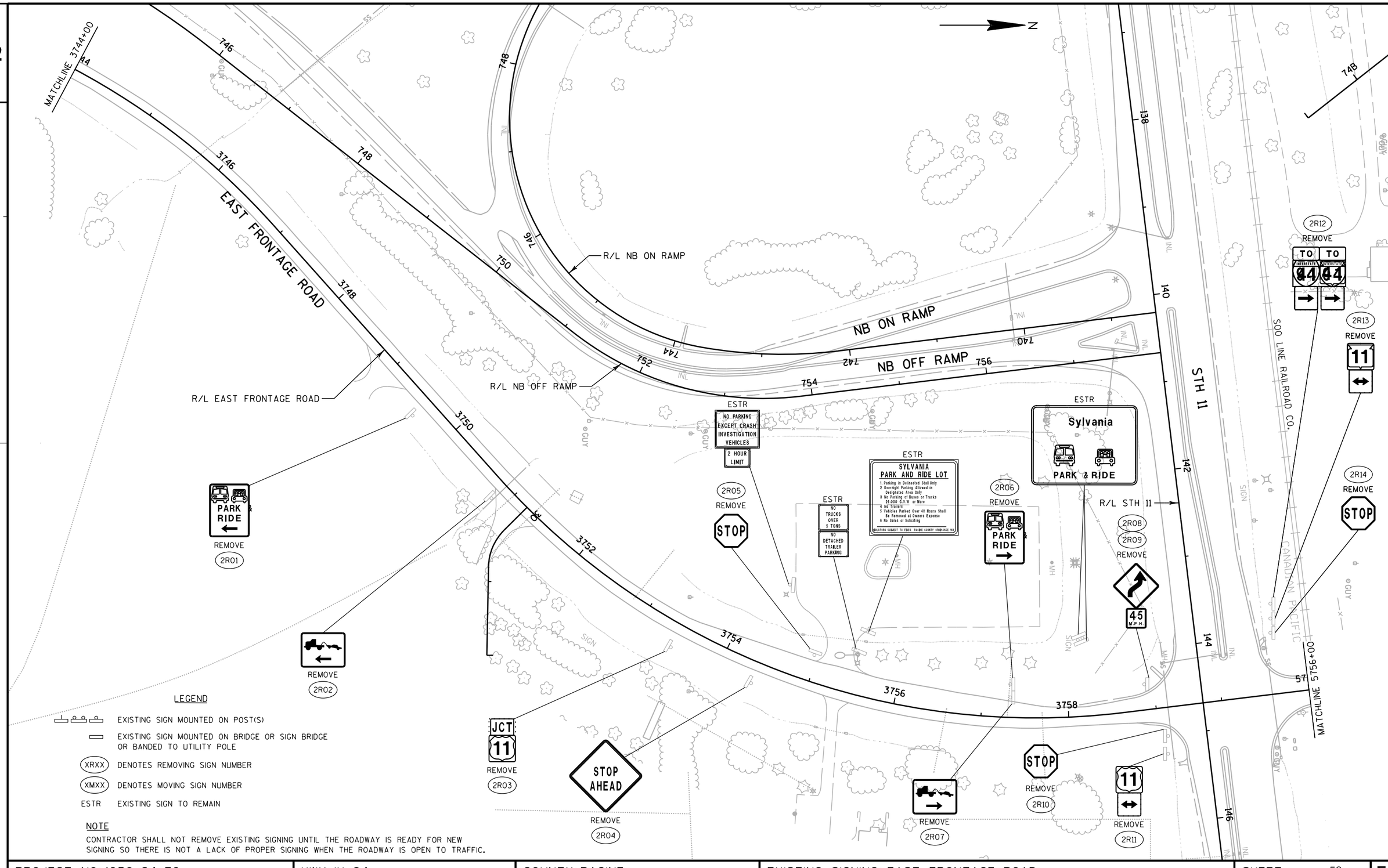
LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE OR BANDED TO UTILITY POLE
- (XRXX) DENOTES REMOVING SIGN NUMBER
- (XMXX) DENOTES MOVING SIGN NUMBER
- ESTR EXISTING SIGN TO REMAIN

NOTE

CONTRACTOR SHALL NOT REMOVE EXISTING SIGNING UNTIL THE ROADWAY IS READY FOR NEW SIGNING SO THERE IS NOT A LACK OF PROPER SIGNING WHEN THE ROADWAY IS OPEN TO TRAFFIC.

PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	EXISTING SIGNING: EAST FRONTAGE ROAD	SHEET 57	E



LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE OR BANDED TO UTILITY POLE
- (XRXX) DENOTES REMOVING SIGN NUMBER
- (XMXX) DENOTES MOVING SIGN NUMBER
- ESTR EXISTING SIGN TO REMAIN

NOTE

CONTRACTOR SHALL NOT REMOVE EXISTING SIGNING UNTIL THE ROADWAY IS READY FOR NEW SIGNING SO THERE IS NOT A LACK OF PROPER SIGNING WHEN THE ROADWAY IS OPEN TO TRAFFIC.

PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	EXISTING SIGNING: EAST FRONTAGE ROAD	SHEET 58	E

2

2

N

SOO LINE RAILROAD CO.

58TH ROAD

54

56

58

60

62

E FRONTAGE RD
OLD HWY 11

SALVAGE
BY LOCAL MUNICIPALITY

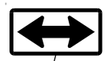
3R12
REMOVE

3R02
REMOVE

3R03
REMOVE

3R04
REMOVE

3R14
REMOVE



3M05 3M10
3M06 3M11
MOVE

R/L EAST
FRONTAGE
ROAD

MATCHLINE 5756+00

5758
5760
5762
5764
5766
5768
5770

MATCHLINE 5771+00

EAST FRONTAGE ROAD

REMOVE
3R07
3R13

REMOVE
3R01

REMOVE
3R08

MOVE
3M09

R/L 58TH ROAD

BURIED TILE

SEPTIC

GUY

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE OR BANDED TO UTILITY POLE
- (XRXX) DENOTES REMOVING SIGN NUMBER
- (XMXX) DENOTES MOVING SIGN NUMBER
- ESTR EXISTING SIGN TO REMAIN

NOTE

CONTRACTOR SHALL NOT REMOVE EXISTING SIGNING UNTIL THE ROADWAY IS READY FOR NEW SIGNING SO THERE IS NOT A LACK OF PROPER SIGNING WHEN THE ROADWAY IS OPEN TO TRAFFIC.

PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	EXISTING SIGNING: EAST FRONTAGE ROAD	SHEET 59	E

R/L WEST FRONTAGE ROAD

EX. WEST FRONTAGE ROAD

IH-94 SB

R/L SB OFF RAMP

IH-94 NB

R/L IH 94

R/L NB ON RAMP

EX. EAST FRONTAGE ROAD

R/L EXISTING EAST FRONTAGE ROAD

EX. ACCESS ROAD "B"

58TH ROAD

PROPOSED PRIVATE DRIVEWAY "A"

R/L PRIVATE DRIVEWAY "A"

MATCHLINE 577+00

R/L EAST FRONTAGE ROAD

PROPOSED EAST FRONTAGE ROAD

MATCHLINE 571+00

STOP AHEAD

REMOVE 4R02

NO PASSING ZONE

REMOVE 4R01

LEGEND

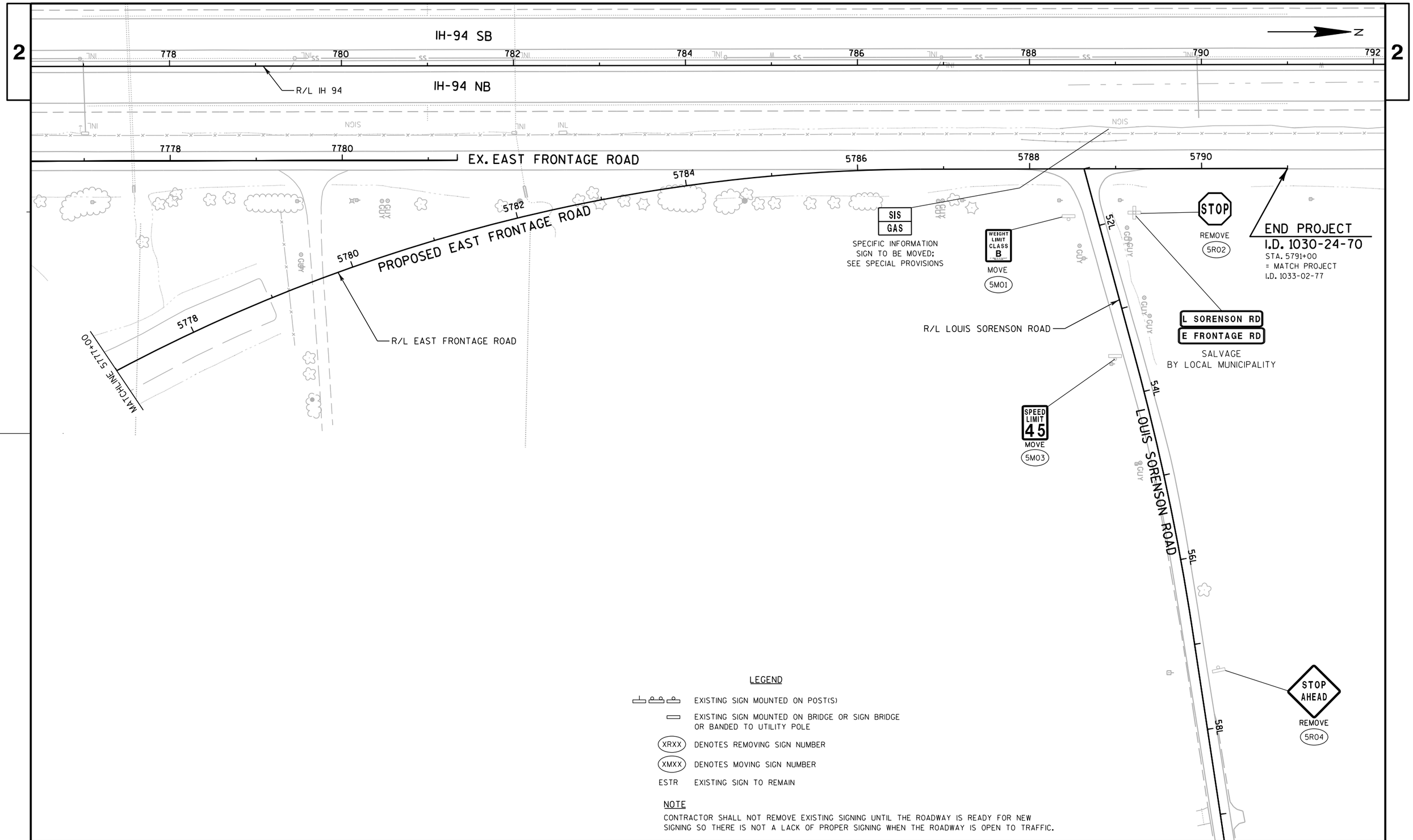
	EXISTING SIGN MOUNTED ON POST(S)
	EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE OR BANDED TO UTILITY POLE
XRXX	DENOTES REMOVING SIGN NUMBER
XMXX	DENOTES MOVING SIGN NUMBER
ESTR	EXISTING SIGN TO REMAIN

NOTE

CONTRACTOR SHALL NOT REMOVE EXISTING SIGNING UNTIL THE ROADWAY IS READY FOR NEW SIGNING SO THERE IS NOT A LACK OF PROPER SIGNING WHEN THE ROADWAY IS OPEN TO TRAFFIC.

PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	EXISTING SIGNING: EAST FRONTAGE ROAD	SHEET 60	E

FILE NAME : Z:\Racine\CADDS\13\13E\CDS\023204_es.dgn PLOT DATE : 7/31/2017 PLOT BY : bjw PLOT NAME : PLOT SCALE : 1:100



LEGEND

⊥ ▭ ▭ ▭	EXISTING SIGN MOUNTED ON POST(S)
▭	EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE OR BANDED TO UTILITY POLE
(XRXX)	DENOTES REMOVING SIGN NUMBER
(XMXX)	DENOTES MOVING SIGN NUMBER
ESTR	EXISTING SIGN TO REMAIN

NOTE

CONTRACTOR SHALL NOT REMOVE EXISTING SIGNING UNTIL THE ROADWAY IS READY FOR NEW SIGNING SO THERE IS NOT A LACK OF PROPER SIGNING WHEN THE ROADWAY IS OPEN TO TRAFFIC.

PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	EXISTING SIGNING: EAST FRONTAGE ROAD	SHEET 61	E

2

N

2740
2738
744
742
740
738
736
734
732
730

R/L WEST FRONTAGE ROAD

R/L SB ON RAMP

R/L IH 94

R/L NB OFF RAMP

IH-94 SB

IH-94 NB

EAST FRONTAGE ROAD

R/L EAST FRONTAGE ROAD

NOTE: LOCATE SIGN BASED ON "LOCATING NO-PASSING ZONES" ITEM

1P01
SPEED LIMIT 55
R2-1
24" X 30"

1P03
NO PASSING ZONE
W14-3
48" X 36"

1P06
IN LINE WITH TANGENT
W1-6
48" X 24"

1P04
W1-4R
36" X 36"

1P05
40 M.P.H.
W13-1
24" X 24"

1P02
SPEED LIMIT 45
R2-1
24" X 30"

BEGIN PROJECT
I.D. 1030-24-70
STA. 3730+00
= MATCH PROJECT
I.D. 1030-24-77

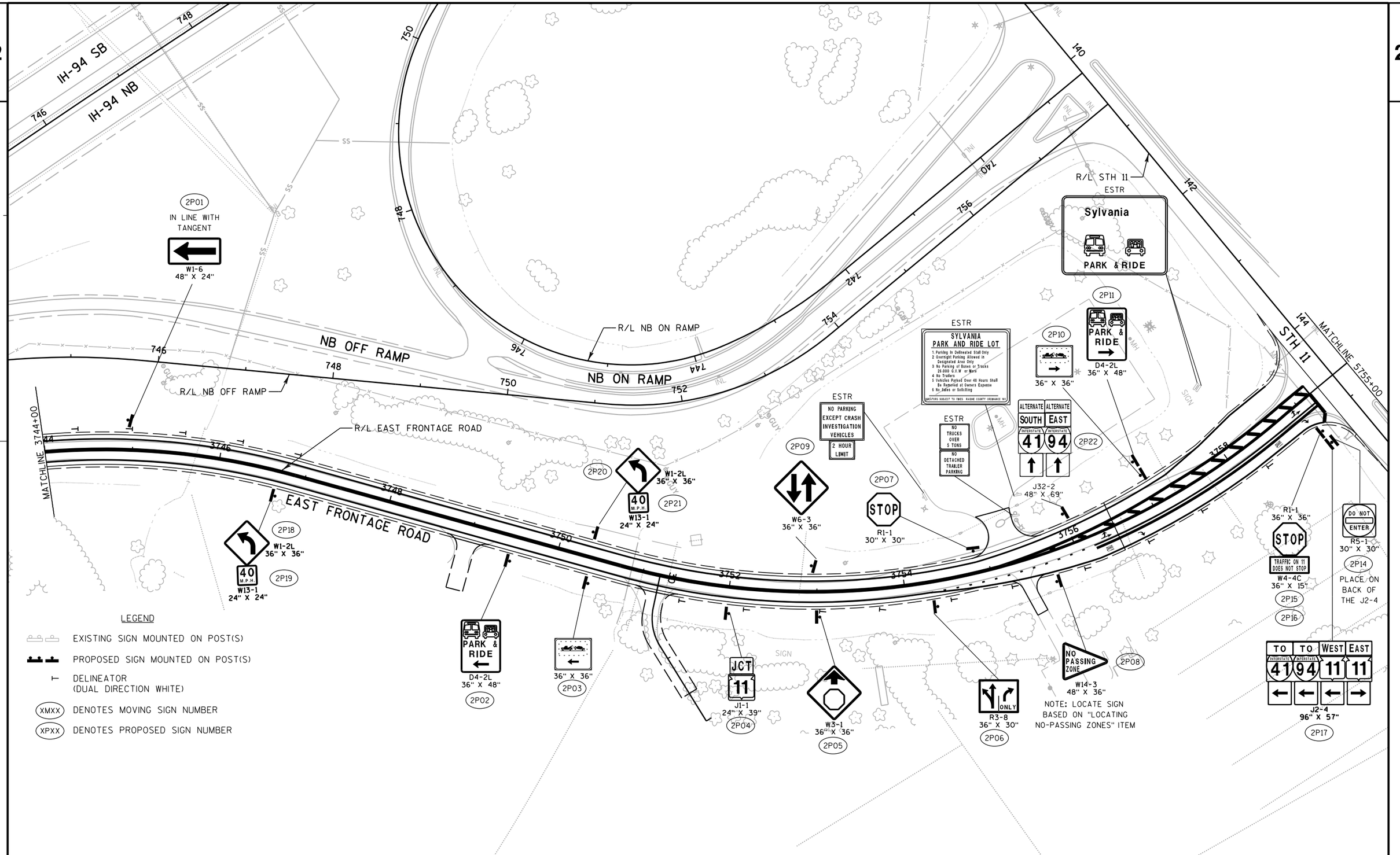
3730
3732
3734
3736
3738
3740
3742
744

MATCHLINE 3744+00

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POST(S)
- DELINEATOR (DUAL DIRECTION WHITE)
- XMXX — DENOTES MOVING SIGN NUMBER
- XPXX — DENOTES PROPOSED SIGN NUMBER

PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	PERMANENT SIGNING: EAST FRONTAGE ROAD	SHEET 62	E



LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POST(S)
- DELINEATOR (DUAL DIRECTION WHITE)
- (XMXX) DENOTES MOVING SIGN NUMBER
- (XPXX) DENOTES PROPOSED SIGN NUMBER

PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	PERMANENT SIGNING: EAST FRONTAGE ROAD	SHEET 63	E

2

PCMS

1. INSTALL PCMS 500' FROM STOP AHEAD (W3-1) SIGN.
2. PCMS MESSAGE TO READ "STOP AHEAD".
3. MAINTAIN FOR 30 DAYS AFTER FLASHING BEACON INSTALLATION.
4. PAID FOR UNDER APPROPRIATE TRAFFIC CONTROL ITEMS.

N

SEE PROJECT I.D. 1030-24-74
FOR ADDITIONAL SIGNING

NOTE: LOCATE SIGN BASED ON "LOCATING NO-PASSING ZONES" ITEM

MATCHLINE 5770+00

MATCHLINE 5755+00

STH 11

SOO LINE RAILROAD CO.

CANADIAN PACIFIC

EAST FRONTAGE ROAD

58TH ROAD

R/L 58TH ROAD

R/L EAST FRONTAGE ROAD

5770 5768 5766 5764 5762 5760 5758 5756

3P01 — R5-1, 30" X 30", DO NOT ENTER, PLACE ON BACK OF THE J2-4

3P02 — J2-4, 96" X 57", EAST 11 WEST 11 TO INTERSTATE 41 TO INTERSTATE 94

3P03 — R1-1, 36" X 36", STOP

3P04 — W4-4C, 36" X 15", TRAFFIC ON 11 DOES NOT STOP

3P05 — R3-8, 36" X 30", ONLY

3P06 — W3-1, 36" X 36"

3P07 — R3-8A, 36" X 30", ONLY

3P08 — J1-1, 24" X 39", JCT 11

3P09 — 3M09, WEIGHT LIMIT 3 TONS

3P10 — J22-2, 48" X 57", TO INTERSTATE 41 TO INTERSTATE 94

3P11 — R1-1, 36" X 36", STOP

3P12 — R1-1, 36" X 36", STOP

3P13 — J22-2, 48" X 57", TO INTERSTATE 41 TO INTERSTATE 94

3P14 — W1-4L, 36" X 36"

3P15 — W14-3, 48" X 36", NO PASSING ZONE

3P16 — W6-3, 36" X 36"

3P17 — R3-8A, 36" X 30", ONLY

3P18 — W3-1, 36" X 36", INSTALL 500' FROM STOP SIGN

3P19 — W4-4P, 24" X 12", CROSS TRAFFIC DOES NOT STOP

3P20 — W4-4P, 24" X 12", CROSS TRAFFIC DOES NOT STOP

3P21 — W3-1, 36" X 36", INSTALL 500' FROM STOP SIGN

3P22 — R4-7, 24" X 30"

3P23 — W5-54, 18" X 18"

3P24 — R4-7, 24" X 30"

3P25 — W5-54, 18" X 18"

3P28 — J32-2, 48" X 69", ALTERNATE NORTH 41 ALTERNATE WEST 94

3P29 — R2-1, 24" X 30", SPEED LIMIT 45

3P30 — R2-1, 24" X 30", SPEED LIMIT 45

3M05 — DEAD END, 3/4 MILE

3M06 — DEAD END, 3/4 MILE

3M10 — DEAD END, 3/4 MILE

3M11 — DEAD END, 3/4 MILE

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POST(S)
- DELINEATOR (DUAL DIRECTION WHITE)
- (XMXX) DENOTES MOVING SIGN NUMBER
- (XPXX) DENOTES PROPOSED SIGN NUMBER

1. INSTALL PCMS 500' FROM STOP AHEAD (W3-1) SIGN.
2. PCMS MESSAGE TO READ "STOP AHEAD".
3. MAINTAIN FOR 30 DAYS AFTER FLASHING BEACON INSTALLATION.
4. PAID FOR UNDER APPROPRIATE TRAFFIC CONTROL ITEMS.

PCMS

PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	PERMANENT SIGNING: EAST FRONTAGE ROAD	SHEET 64	E

2

N

IH-94 SB

IH-94 NB

772 774 776 778 780 782 784 786

R/L IH 94

R/L NB ON RAMP

4P09
IN LINE WITH TANGENT
W1-6
48" X 24"

MATCHLINE 5785+00

PRIVATE DRIVEWAY "A"

R/L PRIVATE DRIVEWAY "A"

4P08
IN LINE WITH TANGENT
W1-6
48" X 24"

R3-8D
36" X 30"
4P10

4P07
SPEED LIMIT 45
W3-5
36" X 36"

4P05
NOTE: LOCATE SIGN BASED ON "LOCATING NO-PASSING ZONES" ITEM

4P01
W1-2R
36" X 36"

NO PASSING ZONE
W14-3
48" X 36"

EAST FRONTAGE ROAD

R/L EAST FRONTAGE ROAD

4P03
SPEED LIMIT 45
R2-1
36" X 48"

W1-2R
36" X 36"
4P06

MATCHLINE 5770+00

SPEED LIMIT 55
R2-1
24" X 30"

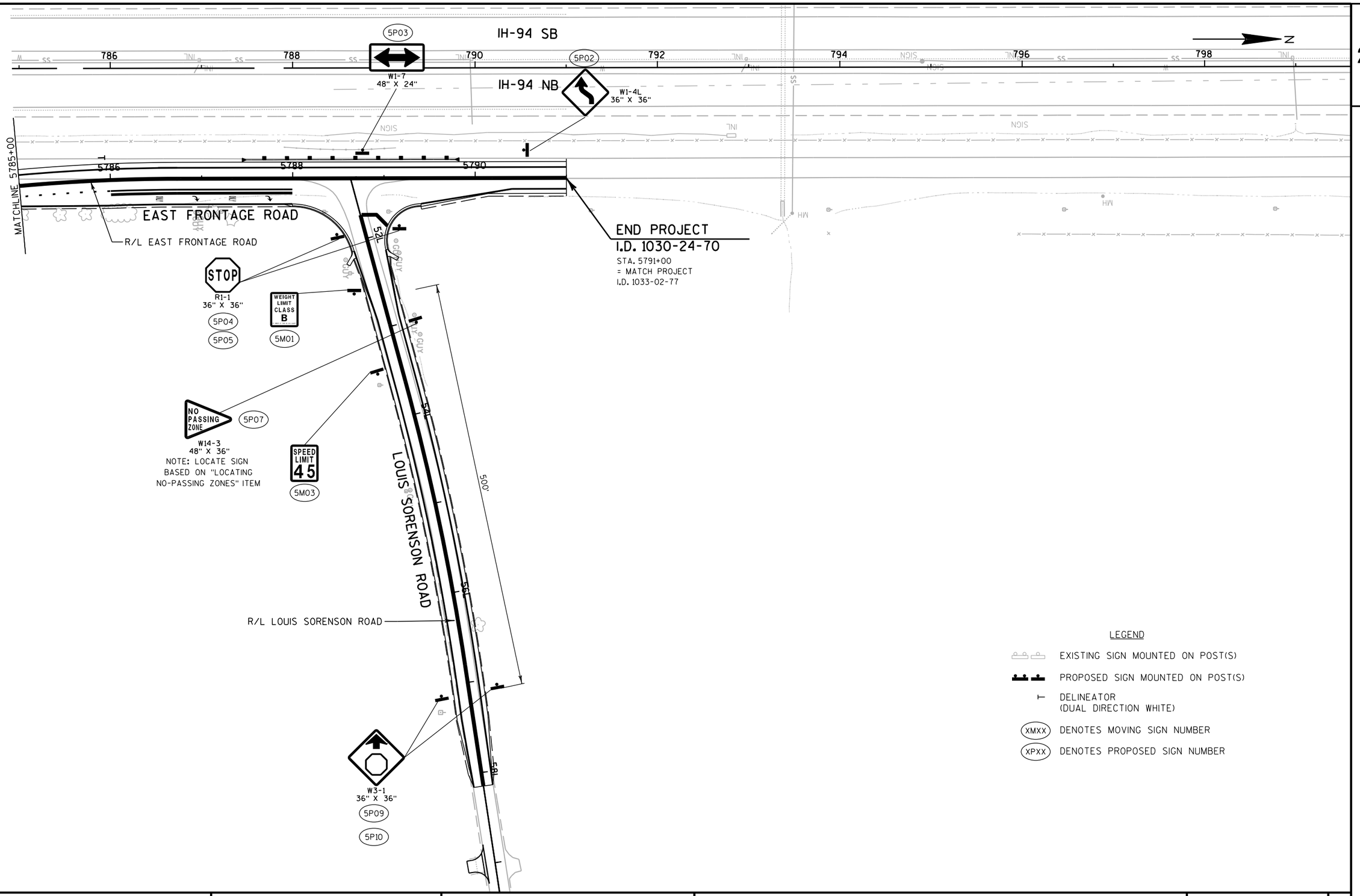
NO PASSING ZONE
W14-3
48" X 36"
4P02

4P04
NOTE: LOCATE SIGN BASED ON "LOCATING NO-PASSING ZONES" ITEM

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POST(S)
- DELINEATOR (DUAL DIRECTION WHITE)
- (XMXX) DENOTES MOVING SIGN NUMBER
- (XPXX) DENOTES PROPOSED SIGN NUMBER

PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	PERMANENT SIGNING: EAST FRONTAGE ROAD	SHEET 65	E



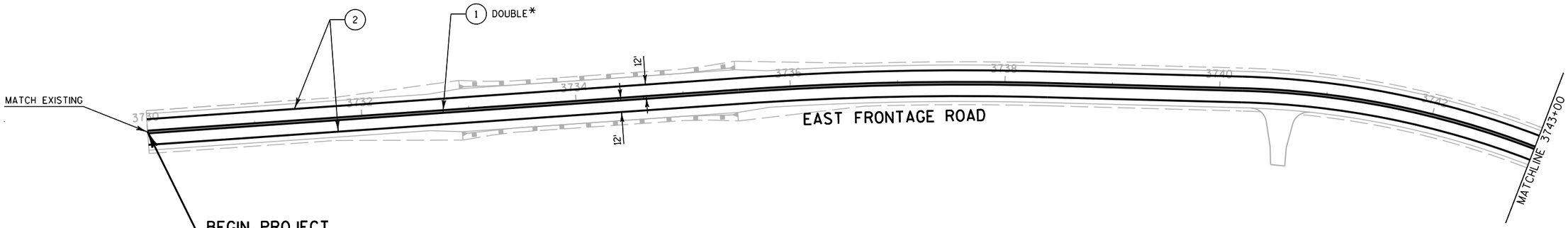
LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POST(S)
- DELINEATOR (DUAL DIRECTION WHITE)
- (XMXX) DENOTES MOVING SIGN NUMBER
- (XPXX) DENOTES PROPOSED SIGN NUMBER

PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	PERMANENT SIGNING: EAST FRONTAGE ROAD	SHEET 66	E

2

N



BEGIN PROJECT
I.D. 1030-24-70
STA. 3730+00
= MATCH PROJECT
I.D. 1030-24-77

* LIMITS OF PAVEMENT MARKING EPOXY 4-INCH (YELLOW) WILL BE DETERMINED UNDER THE PAY ITEM "LOCATING NO PASSING ZONES"

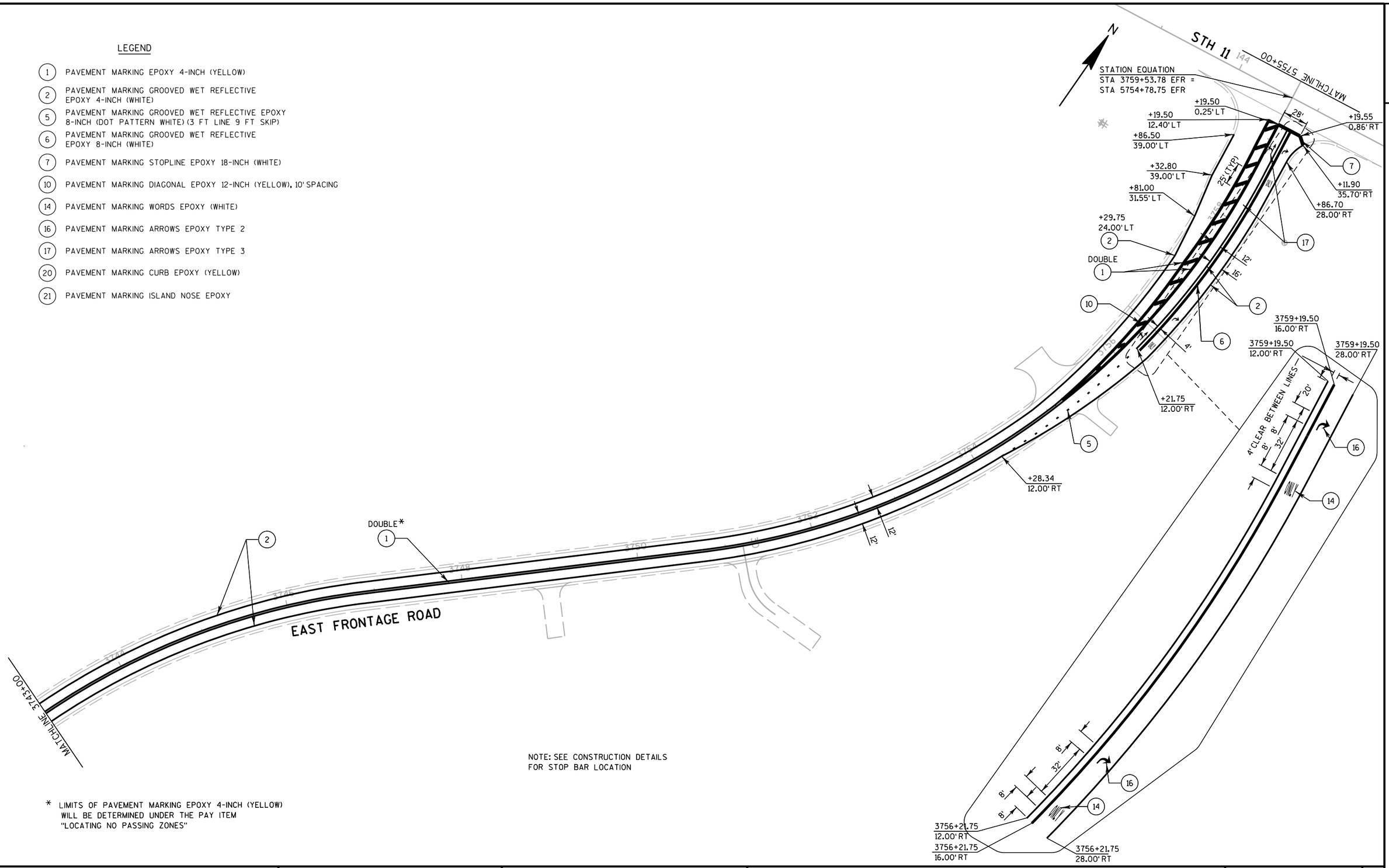
LEGEND

1	PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
2	PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
5	PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 8-INCH (DOT PATTERN WHITE)(3 FT LINE 9 FT SKIP)
6	PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 8-INCH (WHITE)
7	PAVEMENT MARKING STOPLINE EPOXY 18-INCH (WHITE)
10	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW), 10' SPACING
14	PAVEMENT MARKING WORDS EPOXY (WHITE)
16	PAVEMENT MARKING ARROWS EPOXY TYPE 2
17	PAVEMENT MARKING ARROWS EPOXY TYPE 3
20	PAVEMENT MARKING CURB EPOXY (YELLOW)
21	PAVEMENT MARKING ISLAND NOSE EPOXY

PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	PAVEMENT MARKING: EAST FRONTAGE ROAD	SHEET 67	E

LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
2. PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
5. PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 8-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)
6. PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 8-INCH (WHITE)
7. PAVEMENT MARKING STOPLINE EPOXY 18-INCH (WHITE)
10. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW), 10' SPACING
14. PAVEMENT MARKING WORDS EPOXY (WHITE)
16. PAVEMENT MARKING ARROWS EPOXY TYPE 2
17. PAVEMENT MARKING ARROWS EPOXY TYPE 3
20. PAVEMENT MARKING CURB EPOXY (YELLOW)
21. PAVEMENT MARKING ISLAND NOSE EPOXY

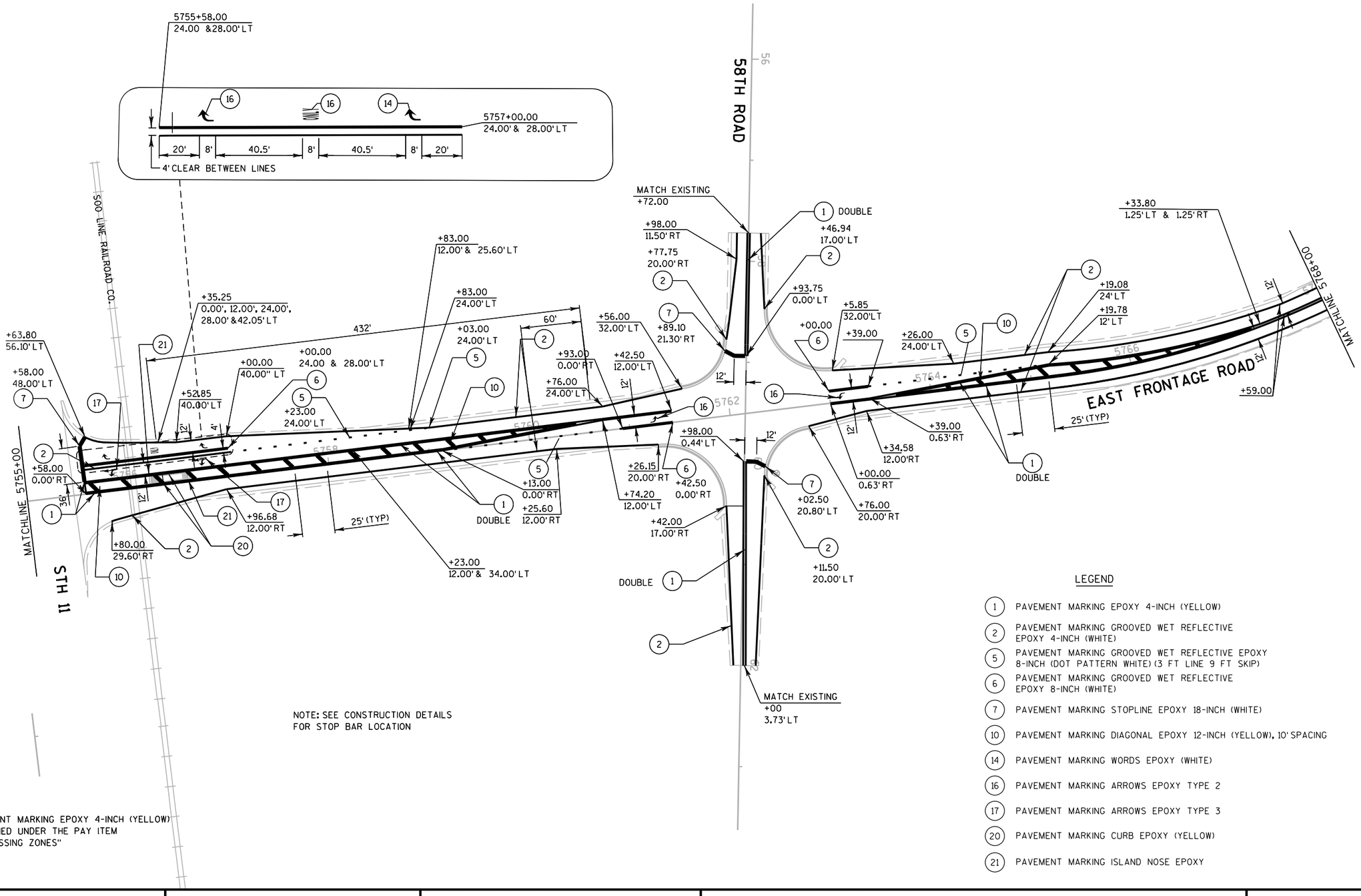


NOTE: SEE CONSTRUCTION DETAILS FOR STOP BAR LOCATION

* LIMITS OF PAVEMENT MARKING EPOXY 4-INCH (YELLOW) WILL BE DETERMINED UNDER THE PAY ITEM "LOCATING NO PASSING ZONES"

PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	PAVEMENT MARKING: EAST FRONTAGE ROAD	SHEET 68	E

2



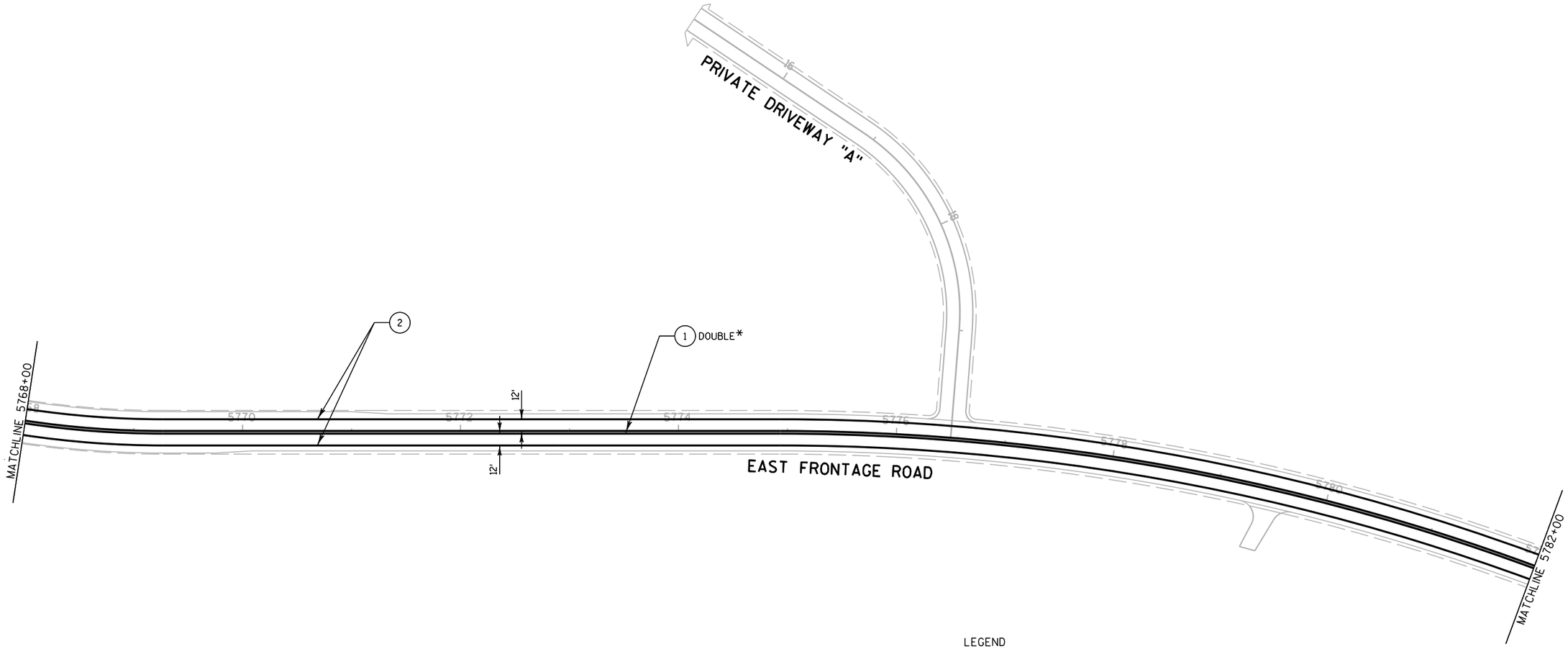
* LIMITS OF PAVEMENT MARKING EPOXY 4-INCH (YELLOW) WILL BE DETERMINED UNDER THE PAY ITEM "LOCATING NO PASSING ZONES"

LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
2. PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
5. PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 8-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)
6. PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 8-INCH (WHITE)
7. PAVEMENT MARKING STOPLINE EPOXY 18-INCH (WHITE)
10. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW), 10' SPACING
14. PAVEMENT MARKING WORDS EPOXY (WHITE)
16. PAVEMENT MARKING ARROWS EPOXY TYPE 2
17. PAVEMENT MARKING ARROWS EPOXY TYPE 3
20. PAVEMENT MARKING CURB EPOXY (YELLOW)
21. PAVEMENT MARKING ISLAND NOSE EPOXY

PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	PAVEMENT MARKING: EAST FRONTAGE ROAD	SHEET 69	E

2



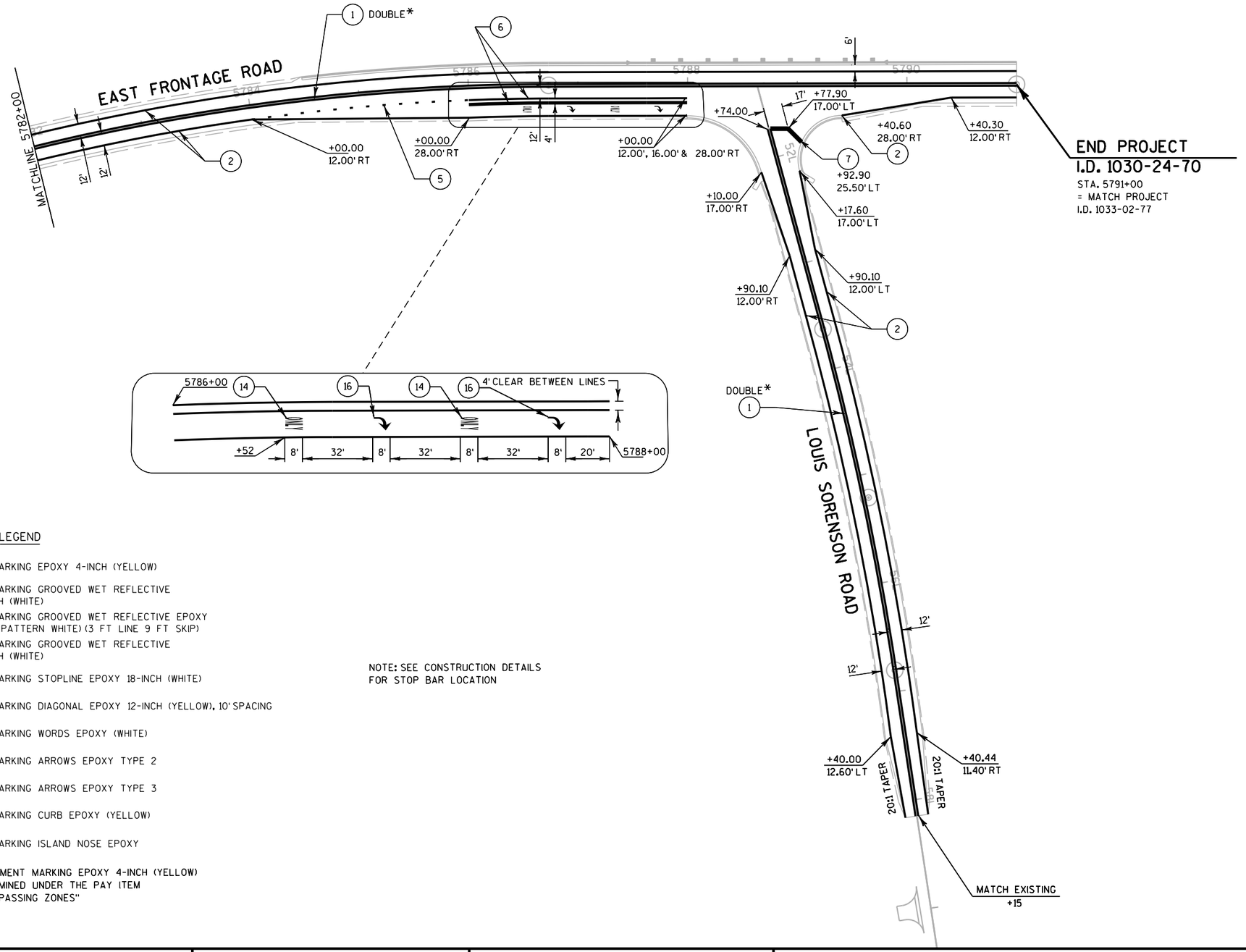
LEGEND

1	PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
2	PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
5	PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 8-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)
6	PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 8-INCH (WHITE)
7	PAVEMENT MARKING STOPLINE EPOXY 18-INCH (WHITE)
10	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW), 10' SPACING
14	PAVEMENT MARKING WORDS EPOXY (WHITE)
16	PAVEMENT MARKING ARROWS EPOXY TYPE 2
17	PAVEMENT MARKING ARROWS EPOXY TYPE 3
20	PAVEMENT MARKING CURB EPOXY (YELLOW)
21	PAVEMENT MARKING ISLAND NOSE EPOXY

* LIMITS OF PAVEMENT MARKING EPOXY 4-INCH (YELLOW) WILL BE DETERMINED UNDER THE PAY ITEM "LOCATING NO PASSING ZONES"

PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	PAVEMENT MARKING: EAST FRONTAGE ROAD	SHEET 70	E

2



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LEGEND

(1) PAVEMENT MARKING EPOXY 4-INCH (YELLOW)

(2) PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)

(5) PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 8-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)

(6) PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 8-INCH (WHITE)

(7) PAVEMENT MARKING STOPLINE EPOXY 18-INCH (WHITE)

(10) PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW), 10' SPACING

(14) PAVEMENT MARKING WORDS EPOXY (WHITE)

(16) PAVEMENT MARKING ARROWS EPOXY TYPE 2

(17) PAVEMENT MARKING ARROWS EPOXY TYPE 3

(20) PAVEMENT MARKING CURB EPOXY (YELLOW)

(21) PAVEMENT MARKING ISLAND NOSE EPOXY

* LIMITS OF PAVEMENT MARKING EPOXY 4-INCH (YELLOW) WILL BE DETERMINED UNDER THE PAY ITEM "LOCATING NO PASSING ZONES"

NOTE: SEE CONSTRUCTION DETAILS FOR STOP BAR LOCATION

PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	PAVEMENT MARKING: EAST FRONTAGE ROAD	SHEET 71	E

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN AND TYPE "A" LIGHTS
- SIGN ON PERMANENT SUPPORT
- WORK AREA
- DIRECTION OF TRAFFIC
- MB — PORTABLE CHANGEABLE MESSAGE BOARD
- XXX — FIXED MESSAGE SIGN NUMBER
- SIGN ON TEMPORARY SUPPORT
- FLAGS, 16"X16", ORANGE

N

PCMS NOTES:
1) PLACE PCMS 10 CALENDAR DAYS PRIOR TO WEST FRONTAGE ROAD CLOSURE.
2) PCMS SHALL BE REMOVED ONCE ROAD CLOSURE IS IMPLEMENTED.
3) PROPOSED MESSAGE: "EAST FRONTAGE ROAD TO CLOSE ON (DATE)"

GENERAL NOTES FOR CONSTRUCTION STAGING AND TRAFFIC CONTROL

1. ALL TRAFFIC CONTROL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED IN THE PLANS.
2. "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS REFLECTIVE ORANGE.
3. SIGN LOCATIONS ARE APPROXIMATE. THE ACTUAL LOCATION SPACING MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER TO MEET FIELD CONDITIONS.
4. ALL SIGNS, TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE COVERED OR REMOVED AS NEEDED AND/OR AS DIRECTED BY THE ENGINEER.
5. ALL EXISTING CONFLICTING PAVEMENT MARKING SHALL BE REMOVED.
6. A FLAGGER MAY BE REQUIRED WHERE CONSTRUCTION VEHICLES ENTER OR LEAVE "WORK/CLOSED" AREAS IF WARRANTED BY CONDITIONS AND/OR AS DIRECTED BY THE ENGINEER.
7. CONTRACTOR SHALL INSTALL PERMANENT SIGNS AND PERMANENT PAVEMENT MARKING WHEN APPROPRIATE DURING CONSTRUCTION STAGING AS SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER.
8. ADEQUATE TURNING PROVISION SHALL BE MAINTAINED FOR ALL VEHICLES, INCLUDING TRUCKS AS DIRECTED BY THE ENGINEER.
9. BARRICADE STRIPES ARE TO BE SLOPED DOWNWARD IN THE DIRECTION OF TRAFFIC FLOW.
10. ACCESS TO THE PARK & RIDE SHALL BE MAINTAINED AT ALL TIMES. ALL PARK & RIDE SIGNS SHALL REMAIN IN USE, AT THE EXISTING LOCATION OR A MOVED LOCATION, DURING CONSTRUCTION UNTIL THE NEW PARK & RIDE SIGNS ARE INSTALLED. MOVING OF PARK & RIDE SIGNS WILL BE CONSIDERED INCIDENTAL TO THE TRAFFIC CONTROL LUMP SUM ITEM.
11. CONTRACTOR SHALL COORDINATE WITH THE RAILROAD COMPANY FOR SIGN REQUIREMENTS DURING CONSTRUCTION AT THE GRADE CROSSING. ANY SIGNS REQUIRED ARE INCLUDED THE TRAFFIC CONTROL SIGNS ITEM.

BEGIN PROJECT
I.D. 1030-24-70
STA. 3730+00
= MATCH PROJECT
I.D. 1030-24-77

SEE PROJECT I.D. 1030-24-77 FOR ADDITIONAL EAST FRONTAGE ROAD TRAFFIC CONTROL

SIGN FOR IH 94 NB TRAFFIC

ROAD WORK AHEAD W20-1A

BRAUN ROAD

WEST FRONTAGE RD.

EAST FRONTAGE RD.

IH 94

STH 11

58TH ROAD

56TH ROAD

D

END ROAD WORK G20-2A 48" X 24"

ROAD WORK AHEAD W20-1A

1307

RIGHT SHOULDER CLOSED AHEAD W21-5B

RIGHT SHOULDER CLOSED W21-5A

1305

ROAD CLOSED 1000 FT W20-3C

1306

END ROAD WORK G20-2A 48" X 24"

ROAD CLOSED AHEAD W20-3A

ROAD CLOSED 500 FT W20-3D

R11-4 60" X 30" ROAD CLOSED TO THRU TRAFFIC

INSTALL BARRICADES PER S.D.D. "BARRICADES AND SIGNS FOR MAINLINE CLOSURES"

STA. 772+00 TO STA. 783+00
TRAFFIC CONTROL DRUMS (100' SPACING)
INSTALL AT EDGE OF GRAVEL SHOULDER OF IH 94 NB

500'

500'

1309

STOP R1-1 36" X 36"

PRIVATE DWY "A"

SEE PROJECT I.D. 1033-02-77 FOR ADDITIONAL EAST FRONTAGE ROAD TRAFFIC CONTROL

GRANDVIEW PARKWAY

STH 20

IH 94

PARK AND RIDE

1310

R11-4 60" X 30" ROAD CLOSED TO THRU TRAFFIC

STOP R1-1 36" X 36"

500'

STOP R1-1 36" X 36"

R11-4 60" X 30" ROAD CLOSED TO THRU TRAFFIC

INSTALL TRAFFIC CONTROL DRUMS, BARRICADES AND ARROW BOARDS PER S.D.D. "TRAFFIC CONTROL SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH" (EAST AND WESTBOUND STH 11)

RIGHT SHOULDER CLOSED W21-5A

1308

100'

END ROAD WORK G20-2A 48" X 24"

RIGHT SHOULDER CLOSED AHEAD W21-5B

ROAD WORK AHEAD W20-1A

58TH ROAD

ROAD CLOSED 500 FT W20-3D

ROAD CLOSED AHEAD W20-3A

END PROJECT
I.D. 1030-24-70
STA. 5787+00
= MATCH PROJECT
I.D. 1033-02-77

500'

500'

1000'

LOUIS SORENSON ROAD

ROAD CLOSED R11-2 48" X 30"

SEE S.D.D. "BARRICADES AND SIGNS FOR MAINLINE CLOSURES

ROAD CLOSED 500 FT W20-3D

ROAD CLOSED 1000 FT W20-3C

ROAD CLOSED AHEAD W20-3A

END ROAD WORK G20-2A 48" X 24"

ROAD CLOSED 2 MILES AHEAD LOCAL TRAFFIC ONLY R11-3 60" X 30"

CTH H

STH 20

EAST FRONTAGE ROAD STAGE 2

CONSTRUCTION
- PROPOSED EAST FRONTAGE ROAD
- OBLITERATE OLD EAST FRONTAGE ROAD
- PROPOSED 58TH ROAD INTERSECTION
- PROPOSED PRIVATE DRIVEWAY "A"
- PROPOSED LOUIS SORENSON ROAD
- PROPOSED ACCESS ROAD (1030-24-74)
- PROPOSED 58TH ROAD STA 49+00 TO 57+72 (1030-24-74)

TRAFFIC
- EAST FRONTAGE ROAD CLOSED TO THROUGH TRAFFIC.
- STH 11 REMAINS OPEN
- PARK AND RIDE TO REMAIN OPEN AT ALL TIMES

PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	TRAFFIC CONTROL: OVERVIEW - STAGE 2	SHEET 72	E

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN AND TYPE "A" LIGHTS
- SIGN ON PERMANENT SUPPORT
- WORK AREA
- DIRECTION OF TRAFFIC
- MB — PORTABLE CHANGEABLE MESSAGE BOARD
- XXX — FIXED MESSAGE SIGN NUMBER
- SIGN ON TEMPORARY SUPPORT
- FLAGS, 16"X16", ORANGE

N

PCMS NOTES:
1) PLACE PCMS 10 CALENDAR DAYS PRIOR TO WEST FRONTAGE ROAD CLOSURE.
2) PCMS SHALL BE REMOVED ONCE ROAD CLOSURE IS IMPLEMENTED.
3) PROPOSED MESSAGE: "EAST FRONTAGE ROAD TO CLOSE ON (DATE)"

GENERAL NOTES FOR CONSTRUCTION STAGING AND TRAFFIC CONTROL

1. ALL TRAFFIC CONTROL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED IN THE PLANS.
2. "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS REFLECTIVE ORANGE.
3. SIGN LOCATIONS ARE APPROXIMATE. THE ACTUAL LOCATION SPACING MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER TO MEET FIELD CONDITIONS.
4. ALL SIGNS, TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE COVERED OR REMOVED AS NEEDED AND/OR AS DIRECTED BY THE ENGINEER.
5. ALL EXISTING CONFLICTING PAVEMENT MARKING SHALL BE REMOVED.
6. A FLAGGER MAY BE REQUIRED WHERE CONSTRUCTION VEHICLES ENTER OR LEAVE "WORK/CLOSED" AREAS IF WARRANTED BY CONDITIONS AND/OR AS DIRECTED BY THE ENGINEER.
7. CONTRACTOR SHALL INSTALL PERMANENT SIGNS AND PERMANENT PAVEMENT MARKING WHEN APPROPRIATE DURING CONSTRUCTION STAGING AS SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER.
8. ADEQUATE TURNING PROVISION SHALL BE MAINTAINED FOR ALL VEHICLES, INCLUDING TRUCKS AS DIRECTED BY THE ENGINEER.
9. BARRICADE STRIPES ARE TO BE SLOPED DOWNWARD IN THE DIRECTION OF TRAFFIC FLOW.
10. ACCESS TO THE PARK & RIDE SHALL BE MAINTAINED AT ALL TIMES. ALL PARK & RIDE SIGNS SHALL REMAIN IN USE, AT THE EXISTING LOCATION OR A MOVED LOCATION, DURING CONSTRUCTION UNTIL THE NEW PARK & RIDE SIGNS ARE INSTALLED. MOVING OF PARK & RIDE SIGNS WILL BE CONSIDERED INCIDENTAL TO THE TRAFFIC CONTROL LUMP SUM ITEM.
11. CONTRACTOR SHALL COORDINATE WITH THE RAILROAD COMPANY FOR SIGN REQUIREMENTS DURING CONSTRUCTION AT THE GRADE CROSSING. ANY SIGNS REQUIRED ARE INCLUDED THE TRAFFIC CONTROL SIGNS ITEM.

BEGIN PROJECT
I.D. 1030-24-70
STA. 3730+00
= MATCH PROJECT
I.D. 1030-24-77

SEE PROJECT I.D. 1030-24-77 FOR ADDITIONAL EAST FRONTAGE ROAD TRAFFIC CONTROL

SIGN FOR IH 94 NB TRAFFIC

ROAD WORK AHEAD W20-1A

BRAUN ROAD

WEST FRONTAGE RD.

IH 94

EAST FRONTAGE RD.

PARK AND RIDE

1305 1307 1308 1309 1310

RIGHT SHOULDER CLOSED AHEAD W21-5B

RIGHT SHOULDER CLOSED W21-5A

ROAD CLOSED 1000 FT W20-3C

ROAD CLOSED AHEAD W20-3A

ROAD CLOSED 500 FT W20-3D

END ROAD WORK G20-2A 48" X 24"

1306

STH 11

58TH ROAD

56TH ROAD

R11-4 60" X 30" ROAD CLOSED TO THRU TRAFFIC

INSTALL BARRICADES PER S.D.D. "BARRICADES AND SIGNS FOR MAINLINE CLOSURES"

STA. 772+00 TO STA. 783+00
TRAFFIC CONTROL DRUMS (100' SPACING)
INSTALL AT EDGE OF GRAVEL SHOULDER OF IH 94 NB

SEE PROJECT I.D. 1033-02-77 FOR ADDITIONAL EAST FRONTAGE ROAD TRAFFIC CONTROL

GRANDVIEW PARKWAY

STH 20

500'

STOP R1-1 36" X 36"

PRIVATE DWY "A"

END PROJECT
I.D. 1030-24-70
STA. 5787+00
= MATCH PROJECT
I.D. 1033-02-77

SEE S.D.D. "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC"

ROAD WORK 500 FT W20-1D

ROAD WORK 1000 FT W20-1C

ROAD WORK AHEAD W20-1A

1000'

100'

LOUIS SORENSON ROAD

INSTALL TRAFFIC CONTROL DRUMS, BARRICADES AND ARROW BOARDS PER S.D.D. "TRAFFIC CONTROL SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH" (EAST AND WESTBOUND STH 11)

CTH H

EAST FRONTAGE ROAD STAGE 2

CONSTRUCTION
- REMAINDER OF PROPOSED EAST FRONTAGE ROAD
- OBLITERATE OLD EAST FRONTAGE ROAD
- PROPOSED ACCESS ROAD (1030-24-74)
- PROPOSED 58TH ROAD STA 49+00 TO 57+72 (1030-24-74)

TRAFFIC
- EAST FRONTAGE ROAD CLOSED TO THROUGH TRAFFIC EXCEPT FROM STH 11 TO LOUIS SORENSON ROAD
- STH 11 REMAINS OPEN
- PARK AND RIDE TO REMAIN OPEN AT ALL TIMES

PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	TRAFFIC CONTROL: OVERVIEW - STAGE 2 - NEFR OPEN	SHEET 73	E

2

BRAUN ROAD

CTH KR

51ST DRIVE

STH 11

58TH ROAD

56TH ROAD

LEETSBIR ROAD

GRANDVIEW PARKWAY

CTH C

WEST FRONTAGE ROAD

EAST FRONTAGE ROAD

LOUIS SORENSON RD

STH 20

N

LEGEND

- PROPOSED SIGN MOUNTED ON POST(S)
- (X) SIGN NUMBER
- DETOUR ROUTE
- WORK AREA

NOTES

ALL SIGNS SHALL BE PLACED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

EXACT NUMBER, LOCATION AND SPACING OF SIGNS AND DEVICES MAY BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FEDERAL HIGHWAY ADMINISTRATION MANUAL OF STANDARD HIGHWAY SIGNS. UNLESS OTHERWISE PROVIDED IN THE PLAN.

SIGNS IN CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE COVERED AS DIRECTED BY THE ENGINEER.

1. DETOUR / EAST FRONTAGE ROAD — M4-8 24" X 12" / M1-95A 24" X 30"
2. END DETOUR / EAST FRONTAGE ROAD — M4-6 24" X 12" / M4-8 24" X 12" / M1-95A 24" X 30"
3. EAST FRONTAGE ROAD — M1-95A 24" X 30"; DETOUR AHEAD — W20-2A 48" X 48"

A. M06-1 21" X 21"
B. M06-1 21" X 21"
C. M05-1R 21" X 21"
D. M05-1L 21" X 21"
E. M06-1 21" X 21"

PROJECT NO: 1030-24-70	HWY: IH 94/STH 11	COUNTY: RACINE	DETOUR ROUTE: EAST FRONTAGE ROAD - STAGE 2	SHEET 74	E

2

2

BEGIN FENCE
STA 3730+00, 46'LT
MATCH I.D. 1030-24-77
PROPOSED FENCE

R/L WEST FRONTAGE ROAD

WEST FRONTAGE ROAD

R/L SB ON RAMP

R/L IH 94

IH 94 SB

IH 94 NB

EAST FRONTAGE ROAD

R/L NB OFF RAMP

STA. 3740+21
50'LT

EXISTING
FENCE WOVEN WIRE
TO REMAIN

STA. 3735+52
46'LT

FENCE
WOVEN WIRE
4-FT

R/L EAST FRONTAGE ROAD

END FENCE
STA. 3741+44
50'LT
CONNECT TO
EXISTING FENCE

BEGIN PROJECT
I.D. 1030-24-70
STA. 3730+00
= MATCH PROJECT
I.D. 1030-24-77

PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	FENCE PLAN: EAST FRONTAGE ROAD	SHEET 75	E

FILE NAME : Z:\Racine\CADDS\13\13E\CDS\027101_FN.dgn PLOT DATE : 7/31/2017 PLOT BY : bjw PLOT NAME : PLOT SCALE : 1:200

2

N

2

4770

4775

4780

4785

R/L WEST FRONTAGE ROAD

WEST FRONTAGE ROAD

R/L SB OFF RAMP

56TH ROAD

FENCE
WOVEN WIRE
4-FT

770 775 780 IH 94 SB 785 790 795

IH 94 NB

R/L IH 94

R/L NB ON RAMP

770 775

END FENCE
STA. 5790+60
41' LT
CONNECT TO
EXISTING FENCE

5785 5790

EAST FRONTAGE ROAD

EXISTING FENCE
WOVEN WIRE
TO REMAIN

5780

BEGIN FENCE
STA. 5781+30
118.0' LT
CONNECT TO
EXISTING FENCE

END PROJECT
I.D. 1030-24-70
STA. 5791+00
= MATCH PROJECT
I.D. 1033-02-77 (BY OTHERS)

R/L PRIVATE DRIVEWAY "A"

R/L LOUIS SORENSON ROAD

LOUIS SORENSON RD.

5775

55'

R/L EAST FRONTAGE ROAD

5770

60'

PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	FENCE PLAN: EAST FRONTAGE ROAD	SHEET 76	E

FILE NAME : Z:\Racine\CADDS\13\13E\CDS\027102_FN.dgn PLOT DATE : 7/31/2017 PLOT BY : bjw PLOT NAME : PLOT SCALE : 1:200

2

2

N

T3N R21E 25 36

POINT SEC3142
CAST IRON MON. WITH BRASS CAP
Y=170411.23
X=591482.10

S 89°44'10" E
2644.746'

BRAUN ROAD

SECTION LINE

R/L BRAUN ROAD

POINT SEC3143
CAST IRON MON. WITH BRASS CAP
Y=170399.04
X=594126.82

T3N R21E R22E 25 30 36 31

2644.98'
N 0°07'52" W

SECTION LINE

710 715 720 725 730

R/L IH 94

T3N R21E 25

POINT SEC3129
CAST IRON MON. WITH BRASS CAP
Y=173056.26
X=591480.34

S 89°44'05" E
2640.45'

1/4 SECTION LINE

R/L WEST
FRONTAGE ROAD

2740

R/L SB ON RAMP

735 740

735 740

R/L NB OFF RAMP

PI
FSE1

3730 3735 3740

N 3°58'47" W

PC
FSE1

CURVE FSE1

CP72779

CP73787

N 1°31'05" E
PT
FSE1

PC
FSE2

BEGIN PROJECT
I.D. 1030-24-70

EAST FRONTAGE ROAD STA 3730+00
Y = 172283.33
X = 594316.50

R/L EAST FRONTAGE
ROAD

T3N R22E 25 30 25 30

POINT SEC3130
Y=173044.02
X=594120.76

S 88°57'41" E
2519.96'

POINT SEC3119
CAST IRON MON. WITH BRASS CAP
Y=172998.34
X=596640.31

T3N R22E 30

S 88°42'26" E
2538.264'

POINT SEC3132
CAST IRON MON. WITH BRASS CAP
Y=170341.77
X=596664.43

T3N R22E 30 31

PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	ALIGNMENT LAYOUT: EAST FRONTAGE ROAD	SHEET 77	E

WEST FRONTAGE ROAD STA. 2737+00
Y = 172958.43
X = 593934.31

POINT SEC3129
CAST IRON MON. WITH BRASS CAP
Y=173056.26
X=591480.34

2640.45'

S 89°44'05" E

1/4 SECTION LINE

T3N R21E 25

2745 2740 2735 750 745 740

R/L WEST FRONTAGE ROAD

R/L SB ON RAMP

R/L SB OFF RAMP

R/L IH 94

18'

150'

PI FSE1

CURVE FSE1

CP73787

N 1°31'05" E

PT FSE1

PC FSE2

3740

PI FSE2

CURVE FSE2

3745

R/L EAST FRONTAGE ROAD

R/L NB OFF RAMP

R/L NB ON RAMP

PT FSE2

N 48°14'18" E

3750

EAST FRONTAGE ROAD STA 3751+19.89=
PRIVATE DRIVEWAY "B" STA 30+00.00
Y = 174179.92
X = 594870.92

PC B1

PI B1

PT B1

CURVE B1

PC FSE3

R/L PRIVATE DRIVEWAY "B"

STA 31+83.86
Y = 174134.3345
X = 595039.2207

3755

CURVE FSE3

PI FSE3

PT FSE3

EAST FRONTAGE RD STA 3759+53.78=
EAST FRONTAGE RD STA 5754+78.75
STH 11 STA 144+67.93
Y = 174948.86
X = 595093.36

R/L STH 11

N 6°57'46" W

5755

145

140

755 750 745 740

POINT SEC3130
Y=173044.02
X=594120.76

T3N R22E 25 30

POINT SEC3119
CAST IRON MON. WITH BRASS CAP
Y=172998.34
X=596640.31

T3N R22E 30

2519.96'

S 88°57'41" E

HMOD304

N

N 89° 51' 48.25" W

2639.16'

45

POINT SEC4787
Y=175702.44
X=591478.72

T3N R21E 25 24

R/L 58TH ROAD

R/L EXISTING WEST FRONTAGE ROAD

100 105 760 765 8765

755 760 765 7765

50

185

200

R/L EXISTING EAST FRONTAGE ROAD

T3N R22E 25 30 24 19

80B

75B

POINT SEC3117
Y=175696.15
X=594117.87

R/L ACCESS ROAD "B"

58TH ROAD ALIGNMENT SAME AS SECTION LINE

55

BEGIN CONSTRUCTION
STA 57+72
Y = 175683.13
X = 594825.41

EAST FRONTAGE ROAD STA 5762+15.17=
58TH ROAD STA 59+50.71
Y = 175679.85
X = 595004.08

EAST FRONTAGE RD STA 5755+06.75
Y = 174976.65
X = 595089.97

BEGIN SWALE 3 STA 300+00
Y = 175197.52
X = 595107.66

5765 5760

N 6°57'50" W

60

CP76428

1672.58'

S 88° 56' 45.47" E

300

S 80°00'25" E

S 40°51'15" E

END CONSTRUCTION
STA 62+00
Y = 175675.26
X = 595253.33

R/L SWALE 3

END SWALE 3 STA 301+42
Y = 175141.57
X = 595229.25

T3N R22E 30 19

POINT SEC3106
Y=175650.19
X=596615.74

PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	ALIGNMENT LAYOUT: EAST FRONTAGE ROAD	SHEET 78	E

POINT SEC4787
Y=175702.44
X=594478.72

T3N R21E 24 25

R/L 58TH ROAD

45

4770

N

POINT SEC3303
Y=178365.46
X=591472.83

T 3 N R22E 24

R/L WEST FRONTAGE ROAD

R/L EXISTING
WEST FRONTAGE ROAD

4775

CP78638

POINT SEC3104
Y=178368.73
X=594112.87

T 3 N R22E 24 19

1/4 LINE

N 89° 53' 8.88" E
2640.05'

8765

R/L SB OFF RAMP

8770

4780

4785

765

N 89° 51' 48.25" W
2639.16'

765

770

775

R/L IH 94

780

785

790

EXISTING EAST FRONTAGE ROAD STA = 7781+33.88
EAST FRONTAGE ROAD STA = 5781+50.82.56'LT
Y = 177403.85
X = 594160.68

50

R/L NB ON RAMP

765

770

775

2672.58'

SECTION LINE

7765

7770

7775

N 0° 6'25.43" W

7780

5785

5790

POB
STA 7765+50
EXEFR
Y=175720.2499
X=594176.8759

80B

N 2°25'04" W

PI
EXEFR

N 0°05'25" W

PC
A1

PI
A1

N 0°07'43" W

PI
FNE2

PT
FNE2

N 0°07'43" W

T3N R21E 24 25 30 19

POINT SEC3117
Y=175696.15
X=594117.87

R/L EXISTING
EAST FRONTAGE ROAD

BEGIN PRIVATE DRIVEWAY 'A'
STA. 15+01.48
Y = 176553.50
X = 594241.30

R/L PRIVATE
DRIVEWAY "A"

CURVE A1

N 60°33'30" E

N 60°33'28" E

5780

CURVE FNE2

EAST FRONTAGE ROAD STA =5788+63.34
LOUIS SORENSON ROAD STA 51L+31.93
Y = 178132.62
X = 594170.75

PT
A1

PI
A2

PC
LS1

R/L EAST FRONTAGE ROAD

R/L LOUIS SORENSON ROAD

END PROJECT
I.D. 1030-24-70
WEST FRONTAGE ROAD
STA 5791+00
Y = 178369.29
X = 594170.22

1/4 LINE

N 74° 52' 27" E

55

5775

EAST FRONTAGE ROAD STA =5776+50.00
PRIVATE DRIVEWAY 'A' STA 20+00.00
Y = 176963.92
X = 594429.46

PC
FNE2

55L

CURVE LS1

PI
LS1

BEGIN CONSTRUCTION
STA 57+72
X = 594825.41
Y = 175683.13

5770

N 33°55'36" W

S 88° 43' 15.63" E
2500.00'

PT
LS1

N 81° 22' 47" E

EAST FRONTAGE ROAD STA 5762+15.17=
58TH ROAD STA 59+50.71
Y = 175679.85
X = 595004.08

PC
FNE1

5765

CURVE FNE1

PT
FNE1

PI
FNE1

POINT SEC3093
Y=178312.92
X=596612.25

T 3 N R22E 19

60L

N 6°57'50" W

BEGIN SWALE 4
STA 400+00
Y = 175968.67
X = 595019.68

400

END SWALE 4
STA 400+56
Y = 175938.32
X = 595067.31

R/L SWALE 4

END CONSTRUCTION
STA 60L+00
Y=178306.08
X=595020.26

60

CP76428

1672.58'

S 88° 55' 45.47" E

END CONSTRUCTION
STA 62+00
Y = 175675.26
X = 595253.33

T3N R22E 19 30

POINT SEC3106
Y=175650.19
X=596615.74

EAST FRONTAGE ROAD

CURVE	SUPERELEVATION & CROSS SLOPE DATA	STATION	RATE			
			LEFT SHOULDER	LEFT LANE	RIGHT LANE	RIGHT SHOULDER
FSE1	END NORMAL SHOULDER	3734+34	-4.00%	-2.00%	-2.00%	-4.00%
	END NORMAL CROWN	3734+75	-2.00%	-2.00%	-2.00%	-4.00%
	LEVEL CROWN	3735+17	0.00%	0.00%	-2.00%	-4.00%
	REVERSE CROWN	3735+59	2.00%	2.00%	-2.00%	-4.00%
	BEGIN FULL SUPER	3735+69	2.50%	2.50%	-2.50%	-4.00%
	END FULL SUPER	3738+22	2.50%	2.50%	-2.50%	-4.00%
	BEGIN FULL SUPER	3740+58	5.30%	5.30%	-5.30%	-5.30%
	END FULL SUPER	3746+52	5.30%	5.30%	-5.30%	-5.30%
FSE2	LOW SHOULDER MATCH	3746+79	4.00%	4.00%	-4.00%	-4.00%
	REVERSE CROWN	3747+20	2.00%	2.00%	-2.00%	-4.00%
	LEVEL CROWN	3747+62	0.00%	0.00%	-2.00%	-4.00%
	BEGIN NORMAL CROWN	3748+03	-2.00%	-2.00%	-2.00%	-4.00%
	BEGIN NORMAL SHOULDER	3748+45	-4.00%	-2.00%	-2.00%	-4.00%
FSE3	END NORMAL SHOULDER	3749+39	-4.00%	-2.00%	-2.00%	-4.00%
	END NORMAL CROWN	3749+80	-4.00%	-2.00%	-2.00%	-2.00%
	LEVEL CROWN	3750+22	-4.00%	-2.00%	0.00%	0.00%
	REVERSE CROWN	3750+64	-4.00%	-2.00%	2.00%	2.00%
	BEGIN FULL SUPER	3750+99	-4.00%	-3.70%	3.70%	3.70%
	END FULL SUPER	3758+36	-4.00%	-3.70%	3.70%	3.70%
	REVERSE CROWN	3758+72	-4.00%	-2.00%	2.00%	2.00%
	LEVEL CROWN	3759+13	-4.00%	-2.00%	0.00%	0.00%
	BEGIN NORMAL CROWN	3759+55	-4.00%	-2.00%	-2.00%	-2.00%
	BEGIN NORMAL SHOULDER	3759+97	-4.00%	-2.00%	-2.00%	-4.00%
FNE1	END NORMAL SHOULDER	5763+35	-4.00%	-2.00%	-2.00%	-4.00%
	END NORMAL CROWN	5763+83	-4.00%	-2.00%	-2.00%	-2.00%
	LEVEL CROWN	5764+31	-4.00%	-2.00%	0.00%	0.00%
	REVERSE CROWN	5764+79	-4.00%	-2.00%	2.00%	2.00%
	LOW SHOULDER MATCH	5765+27	-4.00%	-4.00%	4.00%	4.00%
	BEGIN FULL SUPER	5765+75	-6.00%	-6.00%	6.00%	6.00%
	END FULL SUPER	5768+79	-6.00%	-6.00%	6.00%	6.00%
	LOW SHOULDER MATCH	5769+27	-4.00%	-4.00%	4.00%	4.00%
	REVERSE CROWN	5769+75	-4.00%	-2.00%	2.00%	2.00%
	LEVEL CROWN	5770+23	-4.00%	-2.00%	0.00%	0.00%
	BEGIN NORMAL CROWN	5770+71	-4.00%	-2.00%	-2.00%	-2.00%
	BEGIN NORMAL SHOULDER	5771+19	-4.00%	-2.00%	-2.00%	-4.00%
FNE2	END NORMAL SHOULDER	5772+91	-4.00%	-2.00%	-2.00%	-4.00%
	END NORMAL CROWN	5773+44	-2.00%	-2.00%	-2.00%	-4.00%
	LEVEL CROWN	5773+97	0.00%	0.00%	-2.00%	-4.00%
	REVERSE CROWN	5774+51	2.00%	2.00%	-2.00%	-4.00%
	LOW SHOULDER MATCH	5775+04	4.00%	4.00%	-4.00%	-4.00%
	BEGIN FULL SUPER	5775+41	5.40%	5.40%	-5.40%	-5.40%
	END FULL SUPER	5786+25	5.40%	5.40%	-5.40%	-5.40%
	LOW SHOULDER MATCH	5786+63	4.00%	4.00%	-4.00%	-4.00%
	REVERSE CROWN	5787+16	2.00%	2.00%	-2.00%	-4.00%
	LEVEL CROWN	5787+69	0.00%	0.00%	-2.00%	-4.00%
	BEGIN NORMAL CROWN	5788+23	-2.00%	-2.00%	-2.00%	-4.00%
	BEGIN NORMAL SHOULDER	5788+76	-4.00%	-2.00%	-2.00%	-4.00%

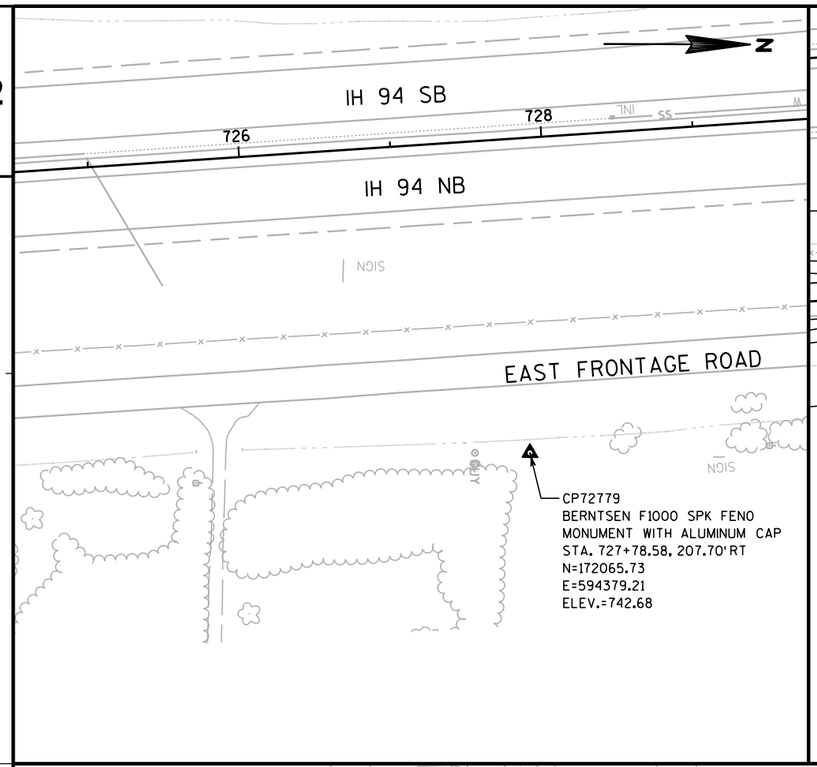
NOTES
1) POSITIVE VALUES SLOPE TOWARDS THE REFERENCE LINE
2) NEGATIVE VALUES SLOPE AWAY FROM THE REFERENCE LINE

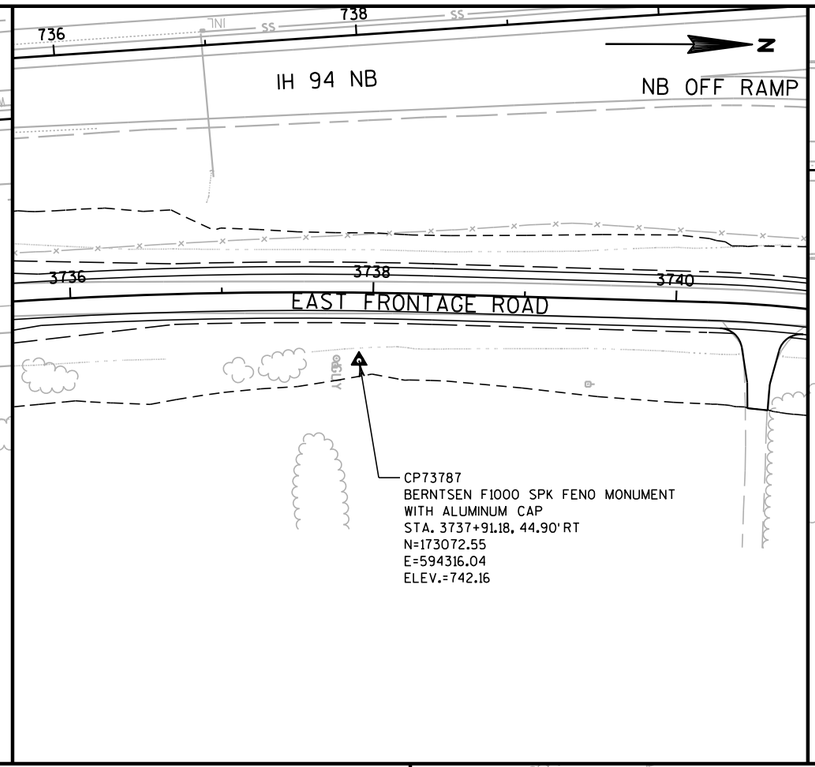
LOUIS SORENSON ROAD

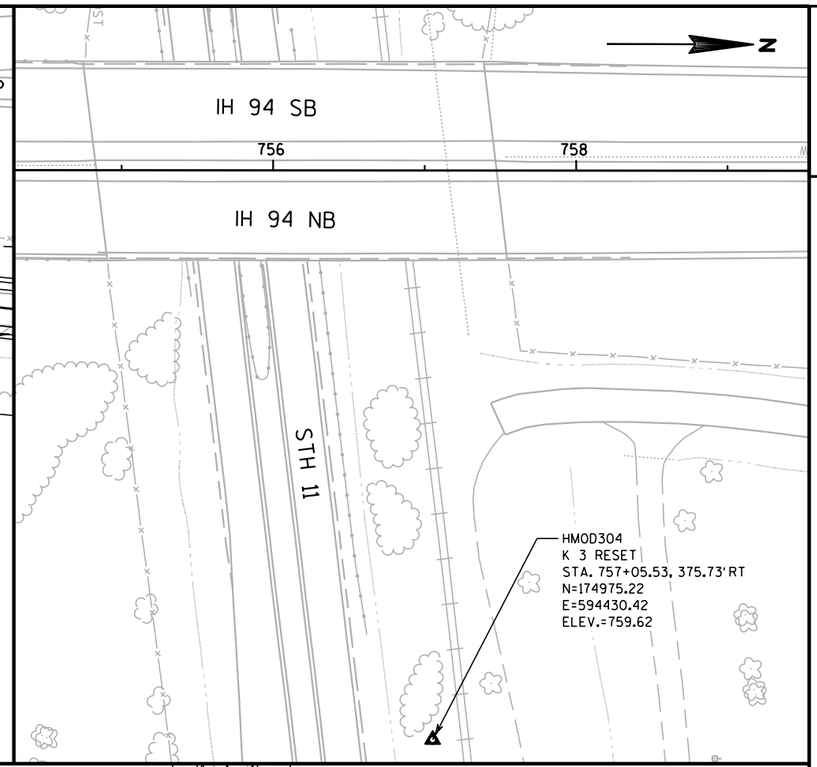
CURVE	SUPERELEVATION & CROSS SLOPE DATA	STATION	RATE			
			LEFT SHOULDER	LEFT LANE	RIGHT LANE	RIGHT SHOULDER
LS1	END NORMAL SHOULDER	52+10	-4.00%	-2.00%	-2.00%	-4.00%
	END NORMAL CROWN	52+58	-2.00%	-2.00%	-2.00%	-4.00%
	LEVEL CROWN	53+05	0.00%	0.00%	-2.00%	-4.00%
	REVERSE CROWN	53+53	2.00%	2.00%	-2.00%	-4.00%
	BEGIN FULL SUPER	53+91	3.60%	3.60%	-3.60%	-4.00%
	END FULL SUPER	56+52	3.60%	3.60%	-3.60%	-4.00%
	REVERSE CROWN	56+90	2.00%	2.00%	-2.00%	-4.00%
	LEVEL CROWN	57+38	0.00%	0.00%	-2.00%	-4.00%
	BEGIN NORMAL CROWN	57+86	-2.00%	-2.00%	-2.00%	-4.00%
	BEGIN NORMAL SHOULDER	58+33	-4.00%	-2.00%	-2.00%	-4.00%

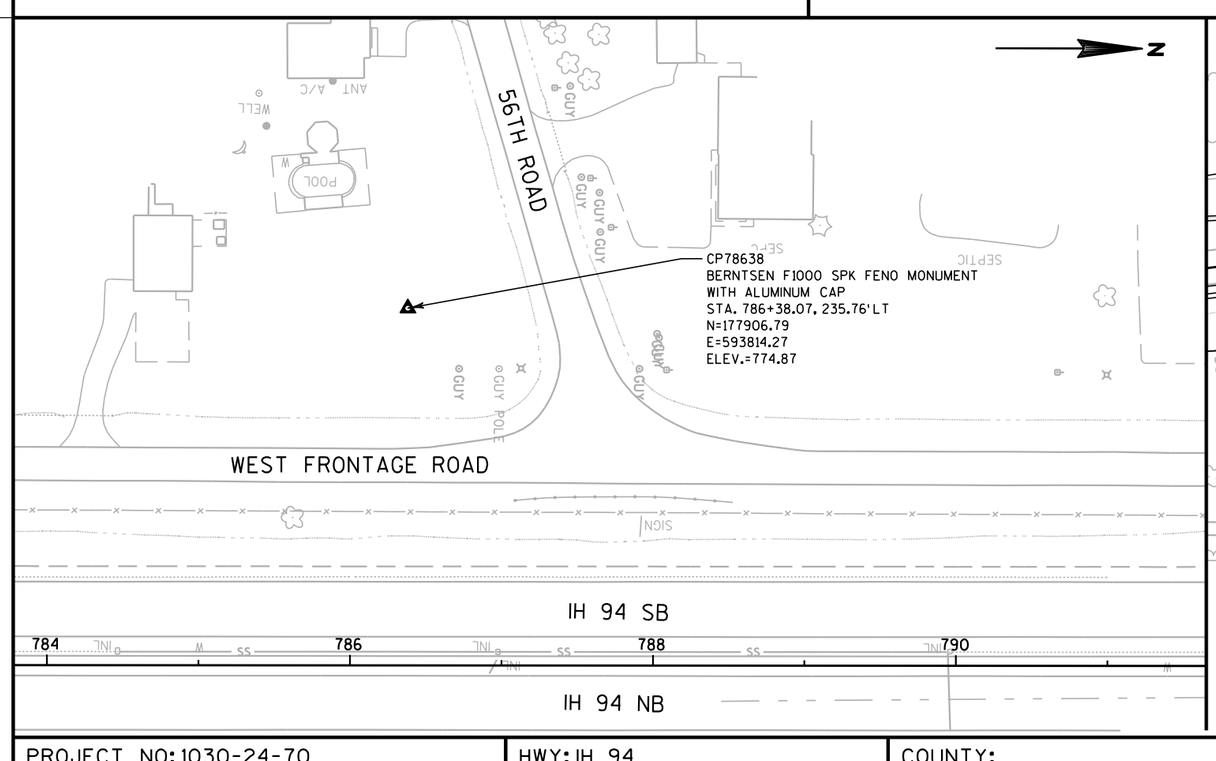
NOTES
1) POSITIVE VALUES SLOPE TOWARDS THE REFERENCE LINE
2) NEGATIVE VALUES SLOPE AWAY FROM THE REFERENCE LINE

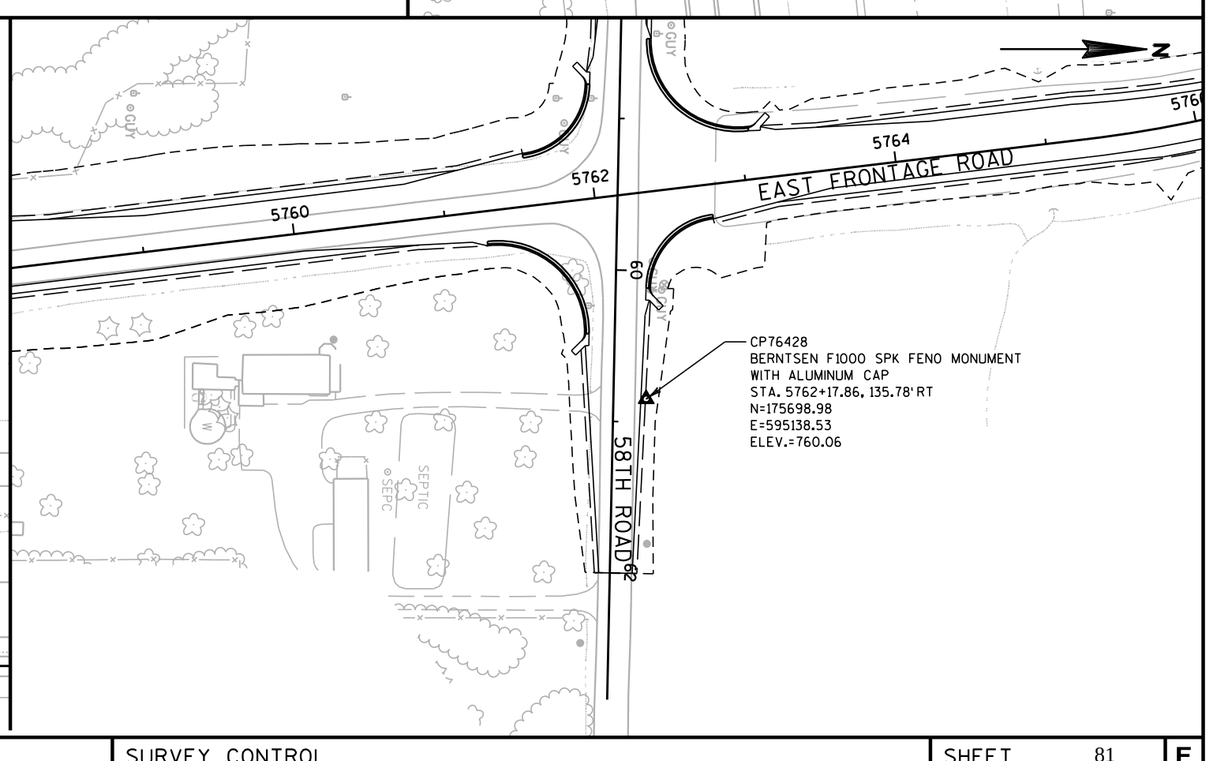
NOTE
EAST FRONTAGE ROAD CROSS SLOPE AT STH 11 MATCH SHOWN IN CROSS SECTIONS











PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY:	SURVEY CONTROL	SHEET 81	E

FILE NAME : Z:\Racine\CADDS\13\13E\CDS\027205_ad.dgn PLOT DATE : 7/31/2017 PLOT BY : bjw PLOT NAME : PLOT SCALE : 1:100

1030-24-70

Line	Item	Item Description	Unit	Total	Qty
0002	108.4400	CPM Progress Schedule	EACH	0.200	0.200
0004	201.0105	Clearing	STA	15.000	15.000
0006	201.0120	Clearing	ID	80.000	80.000
0008	201.0205	Grubbing	STA	15.000	15.000
0010	201.0220	Grubbing	ID	80.000	80.000
0012	203.0100	Removing Small Pipe Culverts	EACH	17.000	17.000
0020	203.0200	Removing Old Structure (station) 017. 7767+10 LT & RT	LS	1.000	1.000
0022	203.0200	Removing Old Structure (station) 018. 7777+70 LT & RT	LS	1.000	1.000
0024	203.0200	Removing Old Structure (station) 019. 5782+18 LT	LS	1.000	1.000
0026	204.0100	Removing Pavement **P**	SY	6,395.000	6,395.000
0028	204.0150	Removing Curb & Gutter **P**	LF	355.000	355.000
0030	204.0165	Removing Guardrail	LF	362.000	362.000
0032	204.0170	Removing Fence **P**	LF	4,412.000	4,412.000
0034	204.0180	Removing Delineators and Markers	EACH	3.000	3.000
0042	204.0220	Removing Inlets	EACH	4.000	4.000
0052	204.0245	Removing Storm Sewer (size) 008. 18-Inch	LF	345.000	345.000
0062	204.0280	Sealing Pipes	EACH	1.000	1.000
0064	204.9060.S	Removing (item description) 001. Gate	EACH	1.000	1.000
0066	204.9060.S	Removing (item description) 006. Permanent Barricades Type III	EACH	6.000	6.000
0068	204.9090.S	Removing (item description) 002. Draintile	LF	573.000	573.000
0072	205.0100	Excavation Common	CY	33,879.000	33,879.000
0074	208.1100	Select Borrow	CY	13,759.000	13,759.000
0076	209.2100	Backfill Granular Grade 2	CY	316.000	316.000
0078	211.0500	Prepare Foundation for Base Aggregate	STA	21.000	21.000
0084	213.0100	Finishing Roadway (project) 028. 1030-24-70	EACH	1.000	1.000
0092	214.0100	Obliterating Old Road	STA	18.000	18.000
0094	305.0110	Base Aggregate Dense 3/4-Inch	TON	2,400.000	2,400.000
0096	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	30,220.000	30,220.000
0098	311.0110	Breaker Run	TON	1,598.000	1,598.000
0100	440.4410	Incentive IRI Ride	DOL	2,897.000	2,897.000
0102	450.4000	HMA Cold Weather Paving	TON	2,467.000	2,467.000
0104	455.0605	Tack Coat	GAL	1,602.000	1,602.000
0106	460.2000	Incentive Density HMA Pavement	DOL	6,317.000	6,317.000
0108	460.5223	HMA Pavement 3 LT 58-28 S	TON	5,701.000	5,701.000
0110	460.5224	HMA Pavement 4 LT 58-28 S	TON	4,169.000	4,169.000
0116	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	78.000	78.000
0120	465.0315	Asphaltic Flumes	SY	48.000	48.000
0128	504.0900	Concrete Masonry Endwalls	CY	16.700	16.700
0134	520.1012	Apron Endwalls for Culvert Pipe 12-Inch	EACH	2.000	2.000

1030-24-70

Line	Item	Item Description	Unit	Total	Qty
0136	520.3312	Culvert Pipe Class III-A 12-Inch	LF	40.000	40.000
0140	520.3318	Culvert Pipe Class III-A 18-Inch	LF	168.000	168.000
0144	520.3330	Culvert Pipe Class III-A 30-Inch	LF	80.000	80.000
0152	520.8000	Concrete Collars for Pipe	EACH	2.000	2.000
0160	521.1618	Apron Endwalls for Culvert Pipe Sloped Side Drains Steel 18-Inch 10 to 1	EACH	8.000	8.000
0166	522.0118	Culvert Pipe Reinforced Concrete Class III 18-Inch	LF	70.000	70.000
0170	522.0130	Culvert Pipe Reinforced Concrete Class III 30-Inch	LF	70.000	70.000
0184	522.1018	Apron Endwalls for Culvert Pipe Reinforced Concrete 18-Inch	EACH	2.000	2.000
0186	522.1024	Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	EACH	2.000	2.000
0188	522.1030	Apron Endwalls for Culvert Pipe Reinforced Concrete 30-Inch	EACH	4.000	4.000
0194	523.0129	Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-III 29x45-Inch	LF	168.000	168.000
0196	523.0419	Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 19x30-Inch	LF	148.000	148.000
0202	523.0519	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 19x30-Inch	EACH	4.000	4.000
0206	523.0529	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 29x45-Inch	EACH	4.000	4.000
0212	601.0553	Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type D **P**	LF	650.000	650.000
0214	601.0557	Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type D **P**	LF	550.000	550.000
0216	602.0410	Concrete Sidewalk 5-Inch **P**	SF	155.000	155.000
0220	606.0100	Riprap Light	CY	42.000	42.000
0230	608.0324	Storm Sewer Pipe Reinforced Concrete Class III 24-Inch	LF	167.000	167.000
0246	608.0512	Storm Sewer Pipe Reinforced Concrete Class V 12-Inch	LF	600.000	600.000
0254	611.0535	Manhole Covers Type J-Special	EACH	12.000	12.000
0276	611.8110	Adjusting Manhole Covers	EACH	1.000	1.000
0280	612.0106	Pipe Underdrain 6-Inch	LF	200.000	200.000
0288	612.0206	Pipe Underdrain Unperforated 6-Inch	LF	10.000	10.000
0290	612.0700	Drain Tile Exploration	LF	900.000	900.000
0292	612.0806	Apron Endwalls for Underdrain Reinforced Concrete 6-Inch	EACH	1.000	1.000
0294	614.0230	Steel Thrie Beam	LF	138.000	138.000
0296	614.0370	Steel Plate Beam Guard Energy Absorbing Terminal	EACH	2.000	2.000
0298	614.0396	Guardrail Mow Strip Asphalt	SY	262.000	262.000
0304	614.2300	MGS Guardrail 3 **P**	LF	300.000	300.000

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Line	Item	Item Description	Unit	Total	Qty
0308	614.2610	MGS Guardrail Terminal EAT **P**	EACH	4.000	4.000
0310	616.0100	Fence Woven Wire (height) 001. 4-FT	LF	2,210.000	2,210.000
0312	616.0700.S	Fence Safety	LF	1,100.000	1,100.000
0318	618.0100	Maintenance And Repair of Haul Roads (project) 008. 1030-24-70	EACH	1.000	1.000
0326	619.1000	Mobilization	EACH	0.200	0.200
0328	620.0300	Concrete Median Sloped Nose **P**	SF	168.000	168.000
0330	623.0200	Dust Control Surface Treatment	SY	20,400.000	20,400.000
0332	624.0100	Water	MGAL	430.000	430.000
0334	625.0500	Salvaged Topsoil	SY	71,500.000	71,500.000
0336	627.0200	Mulching	SY	69,100.000	69,100.000
0338	628.1504	Silt Fence	LF	4,334.000	4,334.000
0340	628.1520	Silt Fence Maintenance	LF	4,334.000	4,334.000
0342	628.1905	Mobilizations Erosion Control	EACH	4.000	4.000
0344	628.1910	Mobilizations Emergency Erosion Control	EACH	4.000	4.000
0346	628.2004	Erosion Mat Class I Type B	SY	17,856.000	17,856.000
0348	628.2008	Erosion Mat Urban Class I Type B	SY	6,578.000	6,578.000
0350	628.6510	Soil Stabilizer Type B	ACRE	7.400	7.400
0352	628.7005	Inlet Protection Type A	EACH	3.000	3.000
0356	628.7015	Inlet Protection Type C	EACH	2.000	2.000
0358	628.7020	Inlet Protection Type D	EACH	1.000	1.000
0360	628.7504	Temporary Ditch Checks	LF	438.000	438.000
0362	628.7555	Culvert Pipe Checks	EACH	163.000	163.000
0364	628.7560	Tracking Pads	EACH	6.000	6.000
0366	628.7570	Rock Bags	EACH	103.000	103.000
0368	630.0140	Seeding Mixture No. 40	LB	170.000	170.000
0370	630.0200	Seeding Temporary	LB	1,261.000	1,261.000
0372	633.0100	Delineator Posts Steel	EACH	40.000	40.000
0374	633.0500	Delineator Reflectors	EACH	80.000	80.000
0376	633.5200	Markers Culvert End	EACH	16.000	16.000
0380	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	27.000	27.000
0382	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	31.000	31.000
0384	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	8.000	8.000
0388	637.2210	Signs Type II Reflective H	SF	369.440	369.440
0392	637.2230	Signs Type II Reflective F	SF	240.500	240.500
0394	638.2102	Moving Signs Type II	EACH	7.000	7.000
0396	638.2602	Removing Signs Type II	EACH	30.000	30.000
0398	638.3000	Removing Small Sign Supports	EACH	26.000	26.000
0404	643.0100	Traffic Control (project) 028. 1030-24-70	EACH	1.000	1.000
0412	643.0300	Traffic Control Drums	DAY	3,403.000	3,403.000

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Line	Item	Item Description	Unit	Total	Qty
0414	643.0420	Traffic Control Barricades Type III	DAY	1,816.000	1,816.000
0416	643.0705	Traffic Control Warning Lights Type A	DAY	3,633.000	3,633.000
0422	643.0900	Traffic Control Signs	DAY	3,445.000	3,445.000
0424	643.0920	Traffic Control Covering Signs Type II	EACH	25.000	25.000
0426	643.1000	Traffic Control Signs Fixed Message	SF	133.000	133.000
0428	643.1050	Traffic Control Signs PCMS	DAY	30.000	30.000
0432	643.2000	Traffic Control Detour (project) 016. 1030-24-70	EACH	1.000	1.000
0434	643.3000	Traffic Control Detour Signs	DAY	14,139.000	14,139.000
0436	645.0111	Geotextile Type DF Schedule A	SY	110.000	110.000
0440	645.0130	Geotextile Type R	SY	115.000	115.000
0442	645.0135	Geotextile Type SR	SY	1,959.000	1,959.000
0444	645.0220	Geogrid Type SR	SY	43,087.000	43,087.000
0446	646.0106	Pavement Marking Epoxy 4-Inch	LF	13,378.000	13,378.000
0448	646.0805.S	Pavement Marking Outfall	EACH	1.000	1.000
0450	646.2304.S	Pavement Marking Grooved Wet Reflective Epoxy 4-Inch	LF	16,010.000	16,010.000
0452	646.2308.S	Pavement Marking Grooved Wet Reflective Epoxy 8-Inch	LF	976.000	976.000
0454	647.0166	Pavement Marking Arrows Epoxy Type 2	EACH	8.000	8.000
0456	647.0176	Pavement Marking Arrows Epoxy Type 3	EACH	4.000	4.000
0458	647.0356	Pavement Marking Words Epoxy	EACH	5.000	5.000
0460	647.0456	Pavement Marking Curb Epoxy	LF	52.000	52.000
0462	647.0566	Pavement Marking Stop Line Epoxy 18-Inch	LF	161.000	161.000
0464	647.0606	Pavement Marking Island Nose Epoxy	EACH	2.000	2.000
0466	647.0726	Pavement Marking Diagonal Epoxy 12-Inch	LF	587.000	587.000
0468	648.0100	Locating No-Passing Zones	MI	1.230	1.230
0470	690.0150	Sawing Asphalt	LF	156.000	156.000
0472	690.0250	Sawing Concrete	LF	265.000	265.000
0474	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	280.000	280.000
0476	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	300.000	300.000
0478	SPV.0030	Special 001. Fertilizer Type B, Special	CWT	46.000	46.000
0486	SPV.0060	Special 088. Field Facilities Office Space	EACH	0.200	0.200
0498	SPV.0075	Special 029. Pavement Cleanup Project 1030-24-70	HRS	30.000	30.000
0506	SPV.0085	Special 002. Seeding Mixture No. 30, Special	LB	1,006.000	1,006.000
0508	SPV.0090	Special 006. Culvert Pipe Reinforced Conc Horiz Elliptical Class HE-IV 53x83-Inch	LF	152.000	152.000
0512	SPV.0090	Special 084. Heavy Duty Silt Fence	LF	5,321.000	5,321.000
0514	SPV.0090	Special 085. Temporary Ditch Check Rock Bags Single Layer	LF	90.000	90.000
0516	SPV.0090	Special 086. Temporary Ditch Check Rock Bags Double Layer	LF	90.000	90.000

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Line	Item	Item Description	Unit	Total	Qty
0522	SPV.0105	Special 028. Survey Project 1030-24-70	LS	1.000	1.000
0536	SPV.0195	Special 006. Select Subbase	TON	16,652.000	16,652.000
0538	SPV.0200	Special 002. Manholes 4-FT Diameter Special	VF	72.000	72.000

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CPM PROGRESS SCHEDULE

CATEGORY	ROADWAY	108.4400 EACH
1000	EAST FRONTAGE ROAD	0.2
	TOTAL (I.D. 1030-24-70)	0.2

CLEARING AND GRUBBING

CATEGORY	ROADWAY	STA	TO	STA	OFFSET	201.0105 CLEARING STA.	201.0120 CLEARING I.D.	201.0205 GRUBBING STA.	201.0220 GRUBBING I.D.
1000	EAST FRONTAGE ROAD								
		3740+00	-	3741+00	RT	1	--	1	--
		3743+00	-	3744+00	RT	1	--	1	--
		3753+00	-	3755+00	RT	2	--	2	--
		3755+77			LT	--	5	--	5
		3756+00			LT	--	4	--	4
		3756+38			LT	--	4	--	4
		3756+00		3757+00	RT	1	--	1	--
		3756+92			LT	--	5	--	5
		5756+00	-	5758+00	RT	2	--	2	--
		5758+71			RT	--	4	--	4
		5758+93			RT	--	3	--	3
		5761+80			RT	1	--	1	--
		5759+60			RT	--	20	--	20
		5780+00	-	5788+00	RT	7	--	7	--
	LOUIS SORENSON RD								
		56L+40			LT	--	35	--	35
		TOTALS (I.D. 1030-24-70)				15	80	15	80

UPDATED 8/3/09 CCU

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REMOVING OLD STRUCTURES

CATEGORY	ROADWAY / STRUCTURE	STA	LOCATION	203.0200.017 REMOVING OLD STRUCTURE STA. 7767+10 LT & RT LS	203.0200.018 REMOVING OLD STRUCTURE STA. 7777+70 LT & RT LS	203.0200.019 REMOVING OLD STRUCTURE STA. 5782+18 LT LS	COMMENTS
1000	EXISTING EFR						
	C-48-33	7767+10	LT & RT	1	--	--	3'x2' CONCRETE BOX
	C-48-36	7777+70	LT & RT	--	1	--	2'x2' CONCRETE BOX
	EAST FRONTAGE ROAD						
	C-47-36	5782+18	LT	--	--	1	CONCRETE APRON ENDWALL
	TOTAL (I.D. 1030-24-70)			1	1	1	

REMOVING SMALL PIPE CULVERTS

CATEGORY	ROADWAY	STATION	LOCATION	SIZE	LENGTH	203.0100 EACH	COMMENTS
1000	EAST FRONTAGE ROAD						
		3731+02	LT & RT	24" CPCM	100'	1	
		3734+19	LT & RT	48" CPCM	66'	1	
		3734+24	LT & RT	48" CPCM	66'	1	
		3740+60	RT	12" CPCM	32'	1	
		3745+73	LT & RT	48" CPCM	65'	1	
		3750+87	LT & RT	24" CPCM	73'	1	
		3751+16	RT	24" CPCM	39'	1	
		3755+32	LT	18" CPCM	71'	1	
		3755+32	RT	12" CPCM	34'	1	
		3759+14	LT & RT	18" CPCM	134'	1	
		5755+57	LT	18" CPRC	6'	1	APRON ENDWALL
		5755+57	RT	18" CPRC	6'	1	APRON ENDWALL
		5757+41	LT & RT	24" CPCM	76'	1	
	PRIVATE DRIVEWAY "A"						
		17+77	LT	12" CPCM	43'	1	
	58TH ROAD						
		60+89	RT	12" CPCM	20'	1	
	LOUIS SORENSON ROAD						
		58L+99	RT	15" CPCM	22'	1	
	EXISTING EFR						
		7765+00	LT & RT	24" CPCM	60'	1	
		TOTAL (I.D. 1030-24-70)				17	

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REMOVING CURB & GUTTER

CATEGORY	ROADWAY	STA.	TO	STA.	LOCATION	204.0150 REMOVING CURB & GUTTER LF
1000	EAST FRONTAGE ROAD					
		3758+70	-	3759+30	LT	112
		3758+90	-	3759+30	RT	82
		5755+48	-	5755+86	LT	70
		5755+48	-	5755+96	RT	91
		TOTAL (I.D. 1030-24-70)				355

REMOVING DELINEATORS AND MARKERS

CATEGORY	ROADWAY / STATION	LOC	204.0180 REMOVING DELINEATORS AND MARKERS EACH	
1000	EAST FRONTAGE ROAD			
	5761+85	LT	1	WOOD POST
	5788+40	RT	1	WOOD POST
	5788+90	RT	1	WOOD POST
	TOTAL (I.D. 1030-24-70)		3	

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REMOVING DRAIN TILE

CATEGORY	ROADWAY	STATION	LOCATION	204.9090.S.002 LF
1000	EAST FRONTAGE ROAD			
		3733+33	RT & LT	125
		3745+82	RT	34
		3747+20	RT	65
		3750+86	RT	21
		3751+29	RT & LT	111
		3752+80	LT	50
		3757+30	LT	51
		3757+70	RT	65
		5782+07	RT	51
		TOTAL (I.D. 1030-24-70)		573

REMOVING FENCE

CATEGORY	ROADWAY	STA	TO	STA	LOCATION	204.0170 REMOVING FENCE LF
1000	EAST FRONTAGE ROAD					
		3730+00	-	3742+00	LT	1,218
		3758+31	-	3759+00	LT	94
		5756+46			LT	36
		5757+69	-	5758+69	LT	118
		5781+50	-	5791+00	LT	982
		5781+50	-	5791+00	LT	982
		5781+50	-	5791+00	LT	982
		TOTAL (I.D. 1030-24-70)				4,412

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REMOVING GUARDRAIL

CATEGORY	ROADWAY	STA	TO	STA	LOC	204.0165 REMOVING GUARDRAIL LF
1000	EAST FRONTAGE ROAD					
		5787+93	-	5789+13	LT	120
	EXISTING EAST FRONTAGE ROAD					
		7769+50	-	7773+50	RT	242
		TOTAL (I.D. 1030-24-70)				362

REMOVING PAVEMENT

CATEGORY	ROADWAY	STA	TO	STA	LOCATION	204.0100 REMOVING PAVEMENT SY	COMMENTS
1000	EAST FRONTAGE ROAD						
		5781+50	-	5791+00	LT	2,354	
	EXISTING EFR						
		7764+80	-	7781+25	LT & RT	4,041	EXISTING EFR ROAD AREA
		TOTAL (I.D. 1030-24-70)				6,395	

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REMOVING GATE

CATEGORY	ROADWAY	STA	LOCATION	204.9060.S.001 REMOVING GATE EACH
1000	EXISTING EFR			
		7775+90	RT	1
		TOTAL (I.D. 1030-24-70)		1

REMOVING PERMANENT BARRICADES

CATEGORY	LOCATION	204.9060.S.006 REMOVING PERMANENT BARRICADES TYPE III EACH
1000		
	EAST FRONTAGE ROAD	4
	PRIVATE DRIVEWAY A	2
	TOTAL	6

REMOVING STORM SEWER

CATEGORY	ROADWAY	STA	TO	STA	LOCATION	204.0245.008 REMOVING STORM SEWER 18-INCH LF	REMARKS
1000	EXISTING EFR						
		7767+04	-	7769+95	LT	292	CPRC
		7777+02	-	7777+54	LT	53	CPCM
		TOTAL (I.D. 1030-24-70)				345	

REMOVING STORM SEWER STRUCTURES

CATGORY	ROADWAY	STATION	OFFSET	LOCATION	204.0220 REMOVING INLETS EACH
1000	EAST FRONTAGE ROAD				
		3750+86	66'	RT	1
	EXISTING EFR				
		7767+04	30'	LT	1
		7769+95	29'	LT	1
		7777+02	32'	LT	1
		TOTALS (I.D. 1030-24-70)			4

3

EARTHWORK

CATEGORY	ROADWAY	FROM / TO STATION	205.0100 EXCAVATION COMMON CY		SALVAGED / UNUSABLE PAVEMENT MATERIAL (4)	AVAILABLE MATERIAL (5)	REDUCED EBS IN FILL (6)	EXPANDED EBS BACKFILL (7)	208.1100 SELECT BORROW CY	UNEXPANDED FILL (8)	EXPANDED FILL (9)	MASS ORDINATE +/- (10)	WASTE (11)	ESTIMATED DISPOSAL AREA OUTSIDE 1:1 SLOPE (12)
			CUT (2)	EBS EXCAVATION (3)			Factor 0.80	Factor 1.30			FACTOR 1.20			
1000	EAST FRONTAGE ROAD	3730+00 TO 5763+00 AND 5779+00 TO 5791+00	20,742	513	2,502	18,754	411	667	667	15,349	18,419	335	335	5,201
	EFR EBS DITCH FILLS	3730+00 TO 5762+00 AND 5785+50 TO 5791+00	0	7,510	0	7,510	6,008	9,763	9,763	0	0	7,510	7,510	0
	EFR EBS EXCESS TOPSOIL	5779+00 TO 5785+00	0	852	0	852	682	1,108	1,108	0	0	852	852	0
	EFR EBS EXIST PAVEMENT (13)	3738+00 TO 3740+50, 3747+50 TO 3752+00, AND 5783+00 TO 5787+00	0	856	0	856	685	1,113	1,113	0	0	856	856	0
	58TH ROAD	57+72 TO 62+00	980	49	138	891	39	64	64	9	11	880	880	156
	58TH RD EBS DITCH FILLS	57+72 TO 62+00	0	304	0	304	243	395	395	0	0	304	304	0
	LOUIS SORENSON ROAD	52L+00 TO 59L+22	939	47	192	794	38	61	61	371	446	349	349	85
	LSR EBS DITCH FILLS	52L+00 TO 58L+50	0	449	0	449	359	584	584	0	0	449	449	0
	PRIVATE DWY A	15+02 TO 19+80	423	0	0	423	0	0	0	94	113	310	310	
	PRIVATE DWY B	30+20 TO 31+47	18	4	0	21	3	5	5	364	437	-416	0	820
	SWALE 3	300+00 TO 301+42	49	0	0	49	0	0	0	0	0	49	49	0
GRAND TOTALS (I.D. 1030-24-70)			23,151	9,728	2,831	30,904	8,467	13,759	13,759	16,189	19,426	11,477	11,893	6,262
		TOTAL EXCAVATION COMMON		32,879										

1) COMMON EXCAVATION IS THE SUM OF THE CUT AND EBS EXCAVATION COLUMNS. ITEM NUMBER 205.0100

2) SALVAGED / UNUSABLE PAVEMENT MATERIAL IS INCLUDED IN CUT UNLESS EXISTING PAVEMENT IS BELOW SUBGRADE.

3) EBS TO BE BACKFILLED WITH SELECT BORROW. EBS TO BE WASTED OUTSIDE THE 1:1 SLOPES (SEE NOTE 6) OR HAULED OFF-SITE.

4) EXISTING PAVEMENT VOLUME (CY), NOT AVAILABLE FOR FILL.

5) AVAILABLE MATERIAL = CUT + EBS EXCAVATION - SALVAGED/UNUSABLE PAVEMENT MATERIAL.

6) REDUCED EBS IN FILL - FOR INFORMATION ONLY. EXCAVATED EBS MATERIALS ARE UNUSABLE IN FILLS OUTSIDE THE 1:1 SLOPE BETWEEN IH 94 AND THE FRONTAGE ROAD. EBS MATERIAL CAN BE USED OUTSIDE THE 1:1 SLOPE ON THE NON-IH 94 SIDE OF THE FRONTAGE ROAD.

7) EXPANDED EBS BACKFILL - THIS IS TO BE FILLED WITH SELECT BORROW MATERIAL. EBS BACKFILL FACTOR = 1.3 ITEM NUMBER 208.1100

8) UNEXPANDED FILL - FILL FROM END AREA EARTHWORK VOLUMES

9) EXPANDED FILL FACTOR = 1.20 (EXPANDED FILL DOES NOT CONTAIN EBS)

10) MASS ORDINATE = AVAILABLE MATERIAL - EXPANDED FILL. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE STAGE. MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE STAGE.

11) WASTE = MASS ORDINATE IF POSITIVE (FOR INFORMATION ONLY - BORROW = MASS ORDINATE IF NEGATIVE)

12) THE ESTIMATED AREA OUTSIDE THE 1:1 FILL SLOPES = LOCATION WHERE THE EBS AND CUT MATERIALS CAN BE WASTED (USED AT CONTRACTORS DISCRETION). AREA IS PART OF THE FILL NUMBERS.

13) EXISTING PAVEMENT EBS IS NOT INCLUDED IN THE TOTAL COMMON EXCAVATION; REMOVAL IS COVERED BY ITEM NUMBER 204.0100 "REMOVING PAVEMENT" AND IS SOLELY SHOWN TO QUANTIFY THE SELECT BORROW USED TO FILL TO THE SUBGRADE

PREPARE FOUNDATION FOR BASE AGGREGATE

CATEGORY	ROADWAY	STA	TO	STA	211.0500 STA.
1000	EAST FRONTAGE ROAD				
		5763+00	-	5779+00	16
	PRIVATE DRIVEWAY "A"				
		15+00	-	19+80	5
	TOTAL (I.D. 1030-24-70)				21

NOTE

1) INCLUDES REMOVAL OF TOPSOIL WITHIN ROADBED

FINISHING ROADWAY PROJECT ID 1030-24-70

CATEGORY	STAGE		213.0100.028 EACH
1000	ALL	PROJECT	1
	TOTAL (I.D. 1030-24-70)		1

BACKFILL GRANULAR

CATEGORY	ROADWAY	STATION	TO	STATION	*209.2100 BACKFILL GRANULAR GRADE 2 CY
1000	EAST FRONTAGE ROAD				
		3730+00	-	5791+00	316
	TOTALS (I.D. 1030-24-70)				316

*GRANULAR BACKFILL USED TO BACKFILL HOLES RESULTING FROM STRUCTURE REMOVAL. SEE GENERAL NOTES FOR ADDITIONAL INFORMATION.

OBLITERATING OLD ROAD

CATEGORY	ROADWAY	STA	TO	STA	214.0100 STA.
1000	EXISTING EFR	7764+80	-	7781+25	18
	TOTAL (I.D. 1030-24-70)				18

DRIVEWAY ITEMS

CATEGORY	ROADWAY	STA	LOCATION	*305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	465.0120 ASPHALTIC SURFACE DRIVEWAY AND FIELD ENTRANCES TON
1000	EAST FRONTAGE ROAD				
		3740+55	RT	30	3
		3749+00	RT	30	3
		3751+20	RT	40	3
		3755+32	LT	50	50
		3755+32	RT	20	14
		5779+54	RT	30	3
	LOUIS SORENSON ROAD				
		59L+00	RT	10	2
	TOTALS (I.D. 1030-24-70)			210	78

*ADDITIONAL QUANTITIES LISTED ELSEWHERE

BASE AGGREGATE ITEMS

CATEGORY	ROADWAY	STA	TO	STA	LOCATION	*305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	311.0110 BREAKER RUN TON	**SPV.0195.006 SELECT SUBBASE TON	645.0135 GEOTEXTILE TYPE SR SY	**645.0220 GEOGRID TYPE SR SY
1000	EAST FRONTAGE ROAD										
		3730+00	-	3756+50	LT & RT	890	9,310	--	6,280	--	14,855
		5756+12	-	5791+00	LT & RT	810	13,350	--	8,240	--	19,489
	58TH ROAD										
		57+73	-	59+18	LT & RT	30	650	--	370	--	858
		59+72	-	62+00	LT & RT	50	890	--	520	--	1,210
	RELIEF TRENCHES										
		3730+00	-	5791+00	LT & RT	–	--	--	72	--	--
	PRIVATE DRIVEWAY "A"										
		15+00	-	19+82	LT & RT	140	1,280	--	--	--	--
	LOUIS SORENSON RD										
		51+60	-	58+15	LT & RT	50	1,910	--	1,170	--	2,758
	UNDISTRIBUTED					220	2,740	1,598	--	1,959	3,917
	TEMPORARY ACCESS					–	90	--	--	--	--
	TOTAL (I.D. 1030-24-70)					2,190	30,220	1,598	16,652	1,959	43,087

*ADDITIONAL QUANTITIES LISTED ELSEWHERE

**QUANTITY BASED ON PROJECT LENGTH. USAGE TO BE AUTHORIZED BY ENGINEER OR SOILS ENGINEER. SEE GENERAL NOTES FOR ADDITIONAL INFORMATION.

3

ASPHALTIC PAVEMENT ITEMS

CATEGORY	ROADWAY	STA	TO	STA	LOCATION	440.4410 INCENTIVE IRI RIDE DOL	455.0605 TACK COAT GAL	460.2000 INCENTIVE DENSITY HMA PAVEMENT DOL	450.4000 HMA COLD WEATHER PAVING TON	460.5223 HMA PAVEMENT 3 LT 58-28 S TON	460.5224 HMA PAVEMENT 4 LT 58-28 S TON
1000	EAST FRONTAGE ROAD										
		3730+00	-	3756+50	LT & RT	1,004	514	2,081	813	1,921	1,330
		5756+12	-	5791+00	LT & RT	1,321	805	3,208	1,253	2,962	2,051
	58TH ROAD										
		57+73	-	59+18	LT & RT	55	37	149	58	138	95
		59+72	-	62+00	LT & RT	86	55	221	86	204	141
	PRIVATE DRIVEWAY "A"										
		15+00	-	19+82	LT & RT	183	64	142	56	0	222
	LOUIS SORENSON RD										
		51+60	-	58+15	LT & RT	248	127	516	201	476	330
	UNDISTRIBUTED										
	TOTAL (I.D. 1030-24-70)					2,897	1,602	6,317	2,467	5,701	4,169

ASPHALTIC FLUMES

CATEGORY	ROADWAY	STA.	LOCATION	465.0315 ASPHALTIC FLUMES SY
1000	EAST FRONTAGE ROAD			
		5763+06	LT	8
	58TH ROAD			
		58+77	RT	8
		60+12	LT	8
		60+42	RT	8
	LOUIS SORENSON ROAD			
		52L+10	RT	8
		52L+18	LT	8
	TOTAL (I.D. 1030-24-70)			48

CONCRETE MASONRY ENDWALLS

CATEGORY	ROADWAY	STATION	504.0900 CONCRETE MASONRY ENDWALLS CY
1000	EAST FRONTAGE ROAD		
		3734+20	8.4
		3734+20	8.4
	TOTAL (1030-24-70)		16.7

DRIVEWAY CULVERT ITEMS

CATEGORY	ROADWAY	STATION	OFFSET	*522.0118 CULVERT PIPE REINFORCED CONCRETE CLASS III 18-INCH LF	520.3312 CULVERT PIPE CLASS III-A 12-INCH LF	520.3318 CULVERT PIPE CLASS III-A 18-INCH LF	520.3330 CULVERT PIPE CLASS III-A 30-INCH LF	*522.1030 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 30-INCH EACH	520.1012 APRON ENDWALLS FOR CULVERT PIPE 12-INCH EACH	521.1618 APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS STEEL 18-INCH 10 TO 1 EACH	THICKNESS (INCHES) STEEL
1000	EAST FRONTAGE ROAD										
		3740+50	43.3' RT	--	--	–	80	2	--	–	
		3749+00	48.4' RT	--	--	40	–	–	--	2	0.064
		3751+20	53.7' RT	--	--	98	–	–	--	2	0.064
		3755+30	44.6' RT	--	--	30	–	–	--	2	0.064
		3755+30	41.7' LT	60	--	–	–	–	--	2	
	LOUIS SORENSON ROAD										
		59L+00	22.4' RT	--	40	–	–	–	2	–	0.064
	TOTALS (I.D. 1030-24-70)			60	40	168	80	2	2	8	

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

NOTE
1) PIPE OFFSETS AND ELEVATIONS ARE TO THE CENTERLINE AND INVERT OF PIPE.
2) PIPE LENGTH IS FROM END OF PIPE TO END OF PIPE AND DOES NOT INCLUDE LENGTH OF APRON ENDWALL.

CROSS CULVERT ITEMS

CAT	ROADWAY	STATION	INLET END OFFSET	INLET END ELEV	DISCHARGE END STATION	DISCHARGE END OFFSET	DISCHARGE END ELEV	DISCHARGE END STATION	SLOPE	*522.0118 CULVERT PIPE REINFORCED CONCRETE CLASS III 18-INCH LF	522.0130 CULVERT PIPE REINFORCED CONCRETE CLASS III 30-INCH LF	523.0129 CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-III 29 x 45-INCH LF	523.0419 CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-IV 19x 30-INCH LF	SPV.0090.006 CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-IV 53 x 83-INCH LF	522.1018 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 18-INCH EACH	*522.1030 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 30-INCH EACH	523.0519 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 19 x 30-INCH EACH	523.0529 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 29 x 45-INCH EACH	*633.5200 MARKERS CULVERT END EACH	520.8000 CONCRETE COLLARS FOR PIPE EACH
1000	EAST FRONTAGE ROAD																				--
		3734+17	38.4' LT	738.99	3734+17	34.9' RT	738.63	3734+17	0.50%	–	–	–	–	72	–	--	--	--	--	--
		3734+25	38.4' LT	738.99	3734+25	41.8' RT	738.63	3734+25	0.45%	–	–	–	–	80	–	--	--	--	--	--
		3745+60	42.4' LT	744.78	3745+81	31.5' RT	742.53	3745+41	2.74%	–	–	82	–	--	–	--	--	2	2	--
		3748+50	30.5' LT	746.12	3748+50	38.4' RT	744.15	3748+50	2.81%	–	70	–	–	--	–	2	--		2	--
		5755+57	69.8' LT	755.99	5755+57	61.4' LT	755.77	5755+57	2.20%	10	–	–	–	--	1	--	--	--	2	1
		5755+57	72.5' RT	754.77	5755+57	--	--	–	0.70%	–	–	–	–	--	1	--	--	--	2	1
		5757+25	45.5' LT	755.45	5757+25	27.9' RT	755.35	5757+25	0.14%	–	–	–	74	--	–	--	2	--	2	--
		5757+33	45.5' LT	755.45	5757+33	27.9' RT	755.35	5757+33	0.14%	–	–	–	74	--	–	--	2	--	2	--
		5782+25	40.4' LT	764.03	5782+11	42.9' RT	761.56	5782+33	2.87%	–	–	86	–	--	–	--	--	2	2	--
	TOTALS (I.D. 1030-24-70)									10	70	168	148	152	2	2	4	4	14	-- 2

NOTES
1) STATION OFFSETS SHOWN ARE TO THE CENTER OF INLET STRUCTURES OR END OF PIPE (NOT THE APRON END OF ENDWALLS).
2) PIPE LENGTH IS FROM END OF PIPE TO END OF PIPE AND DOES NOT INCLUDE LENGTH OF APRON ENDWALL.

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

3

DRAIN TILE

CATEGORY	LOCATION	SPV.0200.002 MANHOLES 4-FT DIAMETER SPECIAL VF	611.0535 MANHOLE COVERS TYPE J-SPECIAL EACH	608.0512 STORM SEWER PIPE REINFORCED CONCRETE CLASS V 12-INCH LF	612.0700 DRAIN TILE EXPLORATION LF
	UNDISTRIBUTED	72	12	600	900
	TOTAL (I.D. 1033-02-70)	72	12	600	900

PIPE UNDERDRAIN ITEMS

CATEGOR	STATION	612.0106 PIPE UNDERDRAIN 6-INCH LF	612.0206 PIPE UNDERDRAIN UNPERFORATED 6-INCH LF	612.0806 APRON ENDWALLS FOR PIPE UNDERDRAIN REINFORCED CONCRETE 6-INCH EACH	645.0111 GEOTEXTILE TYPE DF SCHEDULE A SY	646.0805.S PAVEMENT MARKING OUTFALL EACH
1000	EAST FRONTAGE ROAD					
	5761+00	--	10	1	--	1
	5761+00 - 5762+00	200	--	--	110	--
	TOTAL	200	10	1	110	1

3

CONCRETE ITEMS

CATEGORY	ROADWAY	STA	TO	STA	LOCATION	601.0553 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D LF	601.0557 CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D LF	602.0410 CONCRETE SIDEWALK 5-INCH SF	620.0300 CONCRETE MEDIAN SLOPED NOSE SF
1000	EAST FRONTAGE ROAD								
		5756+22	-	5756+62	LT	--	52	155	168
		5784+50	-	5791+00	LT	650	--	--	--
	58TH ROAD						--		
		58+47	-	59+18	LT	--	99	--	--
		58+78	-	59+18	RT	--	70	--	--
		59+71	-	60+11	LT	--	70	--	--
		59+71	-	60+42	RT	--	99	--	--
	LOUIS SORENSON RD								
		51+61	-	52+10	RT	--	90	--	--
		51+61	-	52+18	LT	--	70	--	--
		TOTAL (I.D. 1030-24-70)				650	550	155	168

ADJUSTING MANHOLE COVERS

CATEGORY	ROADWAY	STA	LOCATION	611.8110 ADJUSTING MANHOLE COVERS EACH
1000	EAST FRONTAGE ROAD			
		3759+13	50' LT	1
		TOTAL (I.D. 1030-24-70)		1

GUARDRAIL ITEMS

CATEGORY	ROADWAY	STA	TO	STA	LOCATION	614.0230 STEEL THRIE BEAM LF	614.0370 STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL EACH	614.0396 GUARDRAIL MOW STRIP ASPHALT SY	614.2300 MGS GUARDRAIL 3 LF	614.2610 MGS GUARDRAIL TERMINAL EAT EACH
1000	EAST FRONTAGE ROAD									
		5787+44.59	-	5789+82.52	RT	138	2	--	--	--
		3732+92.5	-	3735+49.5	RT	--	--	131	150	2
		3732+92.5	-	3735+49.5	LT	--	--	131	150	2
		TOTALS		(I.D. 1030-24-70)		138	2	262	300	4

FENCING

CATEGORY	ROADWAY	STA	TO	STA	LOCATION	616.0100 FENCE WOVEN WIRE 4-FT LF
1000	EAST FRONTAGE ROAD					
		3730+00	-	3742+00	LT	1,228
		5781+50	-	5791+00	LT	982
		TOTAL (I.D. 1030-24-70)				2,210

FENCE SAFETY

CATEGORY	ROADWAY	616.0700.S FENCE SAFETY LF
1000	UNDISTRIBUTED	1,100
	TOTAL (I.D. 1030-24-70)	1,100

MAINTENANCE AND REPAIR OF HAUL ROADS (1030-24-70)

CATEGORY	ROADWAY	618.0100.008 EACH
1000		
	EAST FRONTAGE RD	1
	TOTAL (I.D 1030-24-70)	1

MOBILIZATION

CATEGORY	ROADWAY	619.1000 EACH
1000	EAST FRONTAGE RD	0.2
	TOTAL (I.D 1030-24-70)	0.2

EROSION CONTROL ITEMS

CATEGORY	ROADWAY	606.0100 RIPRAP LIGHT CY	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH	628.2004 EROSION MAT CLASS I TYPE B SY	628.2008 EROSION MAT URBAN CLASS I TYPE B SY	628.7005 INLET PROTECTION TYPE A EACH	628.7015 INLET PROTECTION TYPE C EACH	628.7020 INLET PROTECTION TYPE D EACH	628.7504 TEMPORARY DITCH CHECKS LF	628.7555 CULVERT PIPE CHECKS EACH	645.0130 GEOTEXTILE TYPE R SY	628.7570 ROCK BAGS EACH	SPV.0090.084 HEAVY DUTY SILT FENCE LF	SPV.0090.085 TEMPORARY DITCH CHECK ROCK BAGS SINGLE LAYER LF	SPV.0090.086 TEMPORARY DITCH CHECK ROCK BAGS DOUBLE LAYER LF
1000	EAST FRONTAGE ROAD	33	1,990	1,990	–	–	12,383	5,260	2	1	--	320	120	115	12	4,237	--	--
	58TH ROAD	--	319	319	–	–	431	--	–	–	--	20	--	--	1	--	--	--
	LOUIS SORENSON RD	--	962	962	–	–	1,471	--	–	–	--	10	10	--	5	--	--	--
	UNDISTRIBUTED	9	1,063	1,063	4	4	3,573	1,318	1	1	1	88	33	--	85	1,084	90	90
	TOTALS (I.D. 1030-24-70)	42	4,334	4,334	4	4	17,858	6,578	3	2	1	438	163	115	103	5,321	90	90

RESTORATION ITEMS

CATEGORY	ROADWAY	625.0500 SALVAGED TOPSOIL SY	627.0200 MULCHING SY	628.6510 SOIL STABILIZER TYPE B ACRE	SPV.0030.001 FERTILIZER TYPE B SPECIAL CWT	SPV.0085.002 SEEDING MIX NO. 30 SPECIAL LB	630.0140 SEEDING MIX NO. 40 LB	630.0200 SEEDING TEMPORARY LB
1000	EAST FRONTAGE ROAD	46,885	45,000	--	30	617	152	845
	EXISTING EFR	10,305	10,300	--	6	185	--	185
	UNDISTRIBUTED	14,310	13,800	7.4	10	204	18	231
	TOTALS (I.D. 1030-24-70)	71,500	69,100	7.4	46	1,006	170	1,261

DELINEATORS

CATEGORY	ROADWAY	LOCATION	STA	TO	STA	633.0100 DELINEATOR POSTS STEEL EACH	633.0500 DELINEATOR REFLECTORS EACH
1000	EAST FRONTAGE ROAD						
		LT - SOUTHBOUND	3740+00	-	3746+25	11	22
		RT - NORTHBOUND	3751+50	-	3758+25	10	20
		RT - NORTHBOUND	5764+25	-	5769+25	7	14
		LT - SOUTHBOUND	5775+00	-	5786+00	12	24
	TOTALS (I.D. 1030-24-70)					40	80

PERMANENT SIGNING SUMMARY

CATEGORY	SIGN NO.	CODE NO.	SIGN MESSAGE	COMMENTS	SIZE INCH	x	INCH	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	STATION	LOCATION	SAME POST AS SIGN NO.	634.0614 POSTS WOOD 4x6-INCH x 14-FT EACH	634.0616 POSTS WOOD 4x6-INCH x 16-FT EACH	634.0618 POSTS WOOD 4x6-INCH x 18-FT EACH	638.2102 MOVING SIGNS TYPE II EACH
1000	1P01	R2-1(2)	SPEED LIMIT	55 MPH	24	x	30	5.00	--	3730+00	LT	--	1	--	--	--
	1P02	R2-1(2)	SPEED LIMIT	45 MPH	24	x	30	5.00	--	3730+00	RT	--	1	--	--	--
	1P03	W14-3 (2)	NO PASSING ZONE	--	48	x	36	--	6.00	3732+00	LT	--	1	--	--	--
	1P04	W1-4R (3)	RIGHT REVERSE CURVE	--	36	x	36	--	9.00	3732+17	RT	--	--	1	--	--
	1P05	W13-1(3)	ADVISORY SPEED (YELLOW)	40 MPH	24	x	24	--	4.00	3732+17	RT	1P04	--	--	--	--
	1P06	W1-6 (2)	NIGHT ARROW (SINGLE)	--	48	x	24	--	8.00	3742+50	LT	--	1	--	--	--
	2P01	W1-6 (2)	NIGHT ARROW (SINGLE)	--	48	x	24	--	8.00	3745+00	LT	--	1	--	--	--
	2P02	D4-2L	PARK & RIDE	--	36	x	48	12.00	--	3749+50	RT	--	--	1	--	--
	2P03	--	CRASH INVESTIGATION SITE (SEE DETAIL)	--	36	x	36	9.00	--	3750+43	RT	--	--	1	--	--
	2P04	J1-1(2)	JUNCTION	--	24	x	39	6.50	--	3752+00	RT	--	--	1	--	--
		M2-1(2)	JCT	--	21	x	15	--	--	--	--	--	--	--	--	--
		M1-6 (2)	STATE ROUTE MARKER	STH 11	24	x	24	--	--	--	--	--	--	--	--	--
	2P05	W3-1(2)	STOP AHEAD	--	36	x	36	--	9.00	3753+00	RT	--	--	1	--	--
	2P06	R3-8 (2)	LANE DESIGNATION LTS RO	--	36	x	30	7.50	--	3754+35	RT	--	1	--	--	--
	2P07	R1-1(2)	STOP	--	30	x	30	5.18	--	3754+86	LT	--	1	--	--	--
	2P08	W14-3 (2)	NO PASSING ZONE	--	48	x	36	--	6.00	3755+66	RT	--	1	--	--	--
	2P09	W6-3 (2)	TWO WAY TRAFFIC ARROWS	--	36	x	36	--	9.00	3736+00	LT	--	--	1	--	--
	2P10	--	CRASH INVESTIGATION SITE (SEE DETAIL)	--	36	x	36	9.00	--	3757+00	LT	--	1	--	--	--
	2P11	D4-2L	PARK & RIDE	--	36	x	48	12.00	--	3757+00	LT	--	--	1	--	--
	2P14	R5-1	DO NOT ENTER	--	30	x	30	6.25	--	3759+00	RT	2P17	--	--	--	--
	2P15	R1-1(3)	STOP	--	36	x	36	7.46	--	3759+00	RT	--	--	1	--	--
	2P16	W4-4C	TRAFFIC ON 11 DOES NOT STOP	--	36	x	15	3.75	--	3759+00	RT	2P15	--	--	--	--
	2P17	J2-4 (2)	ROUTE TURN ASSEMBLY	--	96	x	57	38.00	--	3759+00	RT	--	--	--	2	--
		M3-4 (2)	WEST	--	24	x	12	--	--	--	--	--	--	--	--	--
		M1-6 (2)	STATE ROUTE MARKER	STH 11	24	x	24	--	--	--	--	--	--	--	--	--
		M6-1(2)	DIRECTION ARROW	LEFT	21	x	21	--	--	--	--	--	--	--	--	--
		M3-2 (2)	EAST	--	24	x	12	--	--	--	--	--	--	--	--	--
		M1-6 (2)	STATE ROUTE MARKER	STH 11	24	x	24	--	--	--	--	--	--	--	--	--
		M6-1(2)	DIRECTION ARROW	RIGHT	21	x	21	--	--	--	--	--	--	--	--	--
		M4-5 (2)	TO	--	24	x	12	--	--	--	--	--	--	--	--	--
		M1-1(2)	INTERSTATE SHIELD	I-41	24	x	24	--	--	--	--	--	--	--	--	--
		M6-1(2)	DIRECTION ARROW	LEFT	21	x	21	--	--	--	--	--	--	--	--	--
		M4-5 (2)	TO	--	24	x	12	--	--	--	--	--	--	--	--	--
		M1-1(2)	INTERSTATE SHIELD	I-94	24	x	24	--	--	--	--	--	--	--	--	--
		M6-1(2)	DIRECTION ARROW	LEFT	21	x	21	--	--	--	--	--	--	--	--	--
	2P18	W1-2L (3)	LEFT CURVE	--	36	x	36	--	9.00	3746+75	RT	--	--	1	--	--
	2P19	W13-1(3)	ADVISORY SPEED (YELLOW)	40 MPH	24	x	24	--	4.00	3746+75	RT	2P18	--	--	--	--
	2P20	W1-2L (3)	LEFT CURVE	--	36	x	36	--	9.00	3750+50	LT	--	--	1	--	--
	2P21	W13-1(3)	ADVISORY SPEED (YELLOW)	40 MPH	24	x	24	--	4.00	3750+50	LT	2P20	--	--	--	--
	2P22	J32-2 (2)	TRAILBLAZER W/ CARDINAL		48	x	69	23.00	--	3756+00	LT	--	--	--	2	
		M4-1(2)	ALTERNATE		24	x	12	--	--	--	--	--	--	--	--	--
		M3-3 (2)	SOUTH		24	x	12	--	--	--	--	--	--	--	--	--
		M1-1(2)	INTERSTATE SHIELD	I-41	24	x	24	--	--	--	--	--	--	--	--	--
		M6-1(2)	DIRECTION ARROW	AHEAD	21	x	21	--	--	--	--	--	--	--	--	--
		M4-1(2)	ALTERNATE		24	x	12	--	--	--	--	--	--	--	--	--
		M3-2 (2)	EAST		24	x	12	--	--	--	--	--	--	--	--	--
		M1-1(2)	INTERSTATE SHIELD	I-94	24	x	24	--	--	--	--	--	--	--	--	--
		M6-1(2)	DIRECTION ARROW	AHEAD	21	x	21		--							
	3P01	R5-1	DO NOT ENTER	--	30	x	30	6.25	--	5755+69	LT	3P02	--	--	--	--
	3P02	J2-4 (2)	ROUTE TURN ASSEMBLY	--	96	x	57	38.00	--	5755+69	LT	--	--	--	2	--
		M3-2 (2)	EAST	--	24	x	12	--	--	--	--	--	--	--	--	--
		M1-6 (2)	STATE ROUTE MARKER	STH 11	24	x	24	--	--	--	--	--	--	--	--	--
		M6-1(2)	DIRECTION ARROW	LEFT	21	x	21	--	--	--	--	--	--	--	--	--
		M3-4 (2)	WEST	--	24	x	12	--	--	--	--	--	--	--	--	--
		M1-6 (2)	STATE ROUTE MARKER	STH 11	24	x	24	--	--	--	--	--	--	--	--	--
		M6-1(2)	DIRECTION ARROW	RIGHT	21	x	21	--	--	--	--	--	--	--	--	--
		M4-5 (2)	TO	--	24	x	12	--	--	--	--	--	--	--	--	--

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PERMANENT SIGNING SUMMARY

CATEGORY	SIGN NO.	CODE NO.	SIGN MESSAGE	COMMENTS	SIZE INCH	x	INCH	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	STATION	LOCATION	SAME POST AS SIGN NO.	634.0614 POSTS WOOD 4x6-INCH x 14-FT EACH	634.0616 POSTS WOOD 4x6-INCH x 16-FT EACH	634.0618 POSTS WOOD 4x6-INCH x 18-FT EACH	638.2102 MOVING SIGNS TYPE II EACH
		M1-1(2)	INTERSTATE SHIELD	I-41	24	x	24	--	--	–	–	–	--	–	--	--
		M6-1(2)	DIRECTION ARROW	RIGHT	21	x	21	--	--	–	–	–	--	–	--	--
		M4-5 (2)	TO	--	24	x	12	--	--	–	–	–	--	–	--	--
		M1-1(2)	INTERSTATE SHIELD	I-94	24	x	24	--	--	–	–	–	--	–	--	--
		M6-1(2)	DIRECTION ARROW	RIGHT	21	x	21	--	--	–	–	–	--	–	--	--
	3P03	R1-1(3)	STOP	--	36	x	36	7.46	--	5755+69	LT	–	--	1	--	--
	3P04	W4-4C	TRAFFIC ON 11 DOES NOT STOP	--	36	x	15	3.75	--	5755+69	LT	3P03	--	–	--	--
	3P05	R3-8 (2)	LANE DESIGNATION LTS RO	--	36	x	30	7.50	--	5757+80	LT	–	1	–	--	--
	3P06	W3-1(2)	STOP AHEAD	--	36	x	36	--	9.00	5758+84	LT	–	--	1	--	--
	3P07	R3-8A (2)	LANE DESIGNATION LO RTS	--	36	x	30	7.50	--	5759+02	RT	–	1	–	--	--
	3P08	J1-1(2)	JUNCTION	--	24	x	39	6.50	--	5759+69	LT	–	--	1	--	--
		M2-1(2)	JCT	--	21	x	15	--	--	–	–	–	--	–	--	--
		M1-6 (2)	STATE ROUTE MARKER	STH 11	24	x	24	--	--	–	–	–	--	–	--	--
	3P10	J22-2 (2)	TRAILBLAZER	--	48	x	57	19.00	--	5761+65	LT	–	--	1	--	--
		M4-5 (2)	TO	--	24	x	12	--	--	–	–	–	--	–	--	--
		M1-1(2)	INTERSTATE SHIELD	I-41	24	x	24	--	--	–	–	–	--	–	--	--
		M6-1(2)	DIRECTION ARROW	RIGHT	21	x	21	--	--	–	–	–	--	–	--	--
		M4-5 (2)	TO	--	24	x	12	--	--	–	–	–	--	–	--	--
		M1-1(2)	INTERSTATE SHIELD	I-94	24	x	24	--	--	–	–	–	--	–	--	--
		M6-1(2)	DIRECTION ARROW	RIGHT	21	x	21	--	--	–	–	–	--	–	--	--
	3P11	R1-1(3)	STOP	--	36	x	36	7.46	--	5761+82	LT	–	--	–	--	--
	3P12	R1-1(3)	STOP	--	36	x	36	7.46	--	5762+53	RT	–	--	–	--	--
	3P13	J22-2 (2)	TRAILBLAZER	--	48	x	57	19.00	--	5762+72	RT	–	--	1	--	--
		M4-5 (2)	TO	--	24	x	12	--	--	–	–	–	--	–	--	
		M1-1(2)	INTERSTATE SHIELD	I-41	24	x	24	--	--	–	–	–	--	–	--	
		M6-1(2)	DIRECTION ARROW	LEFT	21	x	21	--	--	–	–	–	--	–	--	
		M4-5 (2)	TO	--	24	x	12	--	--	–	–	–	--	–	--	
		M1-1(2)	INTERSTATE SHIELD	I-94	24	x	24	--	--	–	–	–	--	–	--	
		M6-1(2)	DIRECTION ARROW	LEFT	21	x	21	--	--	–	–	–	--	–	--	
	3P14	W1-4L (3)	LEFT REVERSE CURVE	--	36	x	36	--	9.00	5763+96	RT	–	--	1	--	--
	3P15	W14-3 (2)	NO PASSING ZONE	--	48	x	36	--	6.00	5763+96	LT	–	1	–	--	--
	3P16	W6-3 (2)	TWO WAY TRAFFIC ARROWS	--	36	x	36	--	9.00	5765+00	RT	–	--	1	--	--
	3P17	R3-8A (2)	LANE DESIGNATION LO RTS	--	36	x	30	7.50	--	5765+31	LT	–	1	–	--	--
	3P18	W3-1(2)	STOP AHEAD	--	36	x	36	--	9.00	55+00	RT	–	--	1	--	--
	3P19	W4-4P (2)	CROSS TRAFFIC DOES NOT STOP	--	24	x	12	--	2.00	5761+82	LT	3P11	--	–	--	--
	3P20	W4-4P (2)	CROSS TRAFFIC DOES NOT STOP	--	24	x	12	--	2.00	5762+53	RT	3P12	--	–	--	--
	*3M09	EXISTING	WEIGHT LIMIT 3 TONS	MOVE	--	x	–	--	--	61+73	RT	–	1	–	--	1
	*3M05	EXISTING	DEAD END	MOVE	--	x	–	--	--	63+00	RT	–	1	–	--	1
	*3M06	EXISTING	3/4 MILE	MOVE	--	x	–	--	--	63+00	RT	3M05	--	–	--	1
	*3M10	EXISTING	DEAD END	MOVE	--	x	–	--	--	63+00	LT	–	1	–	--	1
	*3M11	EXISTING	3/4 MILE	MOVE	--	x	–	--	--	63+00	LT	3M10	--	–	--	1
	3P21	W3-1(2)	STOP AHEAD	--	36	x	36	--	9.00	64+00	LT	–	--	1	--	--
	3P22	R4-7 (2)	KEEP RIGHT SYMBOL	--	24	x	30	5.00	--	5756+30	LT	–	--	1	--	--
	3P23	W5-54 (2)	REFLECTIVE DOTS ON DIAMOND	--	18	x	18	--	2.25	5756+30	LT	3P22	--	–	--	--
	3P24	R4-7 (2)	KEEP RIGHT SYMBOL	--	24	x	30	5.00	--	5756+55	LT	–	--	1	--	--
	3P25	W5-54 (2)	REFLECTIVE DOTS ON DIAMOND	--	18	x	18	--	2.25	5756+55	LT	3P24	--	–	--	--
	3P28	J32-2 (2)	TRAILBLAZER W/ CARDINAL		48	x	69	23.00	--	5760+75	RT	–	--	–	2	
		M4-1(2)	ALTERNATE		24	x	12	--	--	–	–	–	--	–	--	--
		M3-1(2)	NORTH		24	x	12	--	--	–	–	–	--	–	--	--
		M1-1(2)	INTERSTATE SHIELD	I-41	24	x	24	--	--	–	–	–	--	–	--	--
		M6-1(2)	DIRECTION ARROW	AHEAD	21	x	21	--	--	–	–	–	--	–	--	--

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PERMANENT SIGNING SUMMARY

CATEGORY	SIGN NO.	CODE NO.	SIGN MESSAGE	COMMENTS	SIZE INCH	x	INCH	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	STATION	LOCATION	SAME POST AS SIGN NO.	634.0614 POSTS WOOD 4x6-INCH x 14-FT EACH	634.0616 POSTS WOOD 4x6-INCH x 16-FT EACH	634.0618 POSTS WOOD 4x6-INCH x 18-FT EACH	638.2102 MOVING SIGNS TYPE II EACH
		M4-1 (2)	ALTERNATE		24	x	12	--	--	–	–	–	--	–	--	--
		M3-4 (2)	WEST		24	x	12	--	--	–	–	–	--	–	--	--
		M1-1 (2)	INTERSTATE SHIELD	I-94	24	x	24	--	--	–	–	–	--	–	--	--
		M6-1 (2)	DIRECTION ARROW	AHEAD	21	x	21	--	--	–	–	–	--	–	--	--
	3P29	R2-1 (2)	SPEED LIMIT	45 MPH	24	x	30	5.00	--	5757+50	RT	–	1	–	--	--
	3P30	R2-1 (2)	SPEED LIMIT	45 MPH	24	x	30	5.00	--	5766+00	RT	–	1	–	--	--
	4P01	W1-2R (3)	RIGHT CURVE	--	36	x	36	--	9.00	5770+29	LT	–	--	1	--	--
	4P02	W14-3 (2)	NO PASSING ZONE	--	48	x	36	--	6.00	5771+00	RT	–	--	1	--	--
	4P03	R2-1 (2)	SPEED LIMIT	45 MPH	36	x	48	12.00	--	5771+14	LT	–	1	–	--	--
	4P04	R2-1 (2)	SPEED LIMIT	55 MPH	24	x	30	5.00	--	5773+00	RT	–	--	1	--	--
	4P05	W14-3 (2)	NO PASSING ZONE	--	48	x	36	--	6.00	5773+50	LT	–	1	–	--	--
	4P06	W1-2R (3)	RIGHT CURVE	--	36	x	36	--	9.00	5774+00	RT	–	--	1	--	--
	4P07	W3-5 (2)	SPEED LIMIT AHEAD SYMBOL	45 MPH	36	x	36	--	9.00	5776+14	LT	–	--	1	--	--
	4P08	W1-6 (2)	NIGHT ARROW (SINGLE)	--	48	x	24	--	8.00	5778+47	LT	–	1	–	--	--
	4P09	W1-6 (2)	NIGHT ARROW (SINGLE)	--	48	x	24	--	8.00	5784+00	LT	–	1	–	--	--
	4P10	R3-8D (2)	LANE DESIGNATION SO RO	--	36	x	30	7.50	--	5784+00	RT	–	1	–	--	--
	5P02	W1-4L (3)	LEFT REVERSE CURVE	--	36	x	36	--	9.00	5788+00	LT	–	--	1	--	--
	5P03	W1-7 (2)	NIGHT ARROW (DOUBLE)	--	48	x	24	--	8.00	5788+77	LT	–	1	–	--	--
	5P04	R1-1 (3)	STOP	--	36	x	36	7.46	--	52L+00	LT	–	--	1	--	--
	5P05	R1-1 (3)	STOP	--	36	x	36	7.46	--	52L+00	RT	–	--	1	--	--
	*5M01	EXISTING	WEIGHT LIMIT CLASS B	MOVE	--	x	–	--	--	52L+50	RT	–	1	–	--	1
	5P07	W14-3 (2)	NO PASSING ZONE	--	48	x	36	--	6.00	53L+00	LT	–	1	–	--	--
	*5M03	EXISTING	SPEED LIMIT 45 MPH	MOVE	--	x	–	--	--	53L+50	RT	–	1	–	--	1
	5P09	W3-1 (2)	STOP AHEAD	--	36	x	36	--	9.00	56L+50	LT	–	--	1	--	--
	5P10	W3-1 (2)	STOP AHEAD	--	36	x	36	--	9.00	56L+50	RT	–	--	1	--	--
	TOTALS (I.D. 1030-24-70)							369.44	240.50				27	31	8	7

* SEE "REMOVING SIGNS" TABLE FOR EXISTING STATION AND LOCATION

REMOVING SIGNS

CATEGORY	ROADWAY	SIGN NO.	STATION	LOCATION	SAME POST AS SIGN NO.	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	SIGN MESSAGE
1000	EAST FRONTAGE ROAD							
		1R01	3732+00	RT	–	1	1	REVERSE CURVE AHEAD
		1R02	3732+00	RT	1R01	1	–	ADVISORY SPEED LIMIT 45 M.P.H.
		1R03	3735+00	LT	–	1	1	NO PASSING ZONE
		2R01	3749+55	RT	–	1	1	PARK & RIDE
		2R02	3750+84	RT	–	1	1	CRASH INVESTIGATION SITE TRAILBLAZER
		2R03	3753+45	RT	–	1	1	JCT 11
		2R04	3754+41	RT	–	1	1	STOP AHEAD
		2R05	3754+97	LT	–	1	1	STOP
		2R06	3757+30	LT	–	1	–	PARK & RIDE
		2R07	3757+30	LT	–	1	1	CRASH INVESTIGATION SITE TRAILBLAZER
		2R08	3758+90	LT	–	1	1	REVERSE CURVE AHEAD
		2R09	3758+90	LT	2R08	1	–	ADVISORY SPEED LIMIT 45 M.P.H.
		2R10	3759+10	RT	–	1	1	STOP
		2R11	3759+10	LT	–	1	1	11 DIRECTIONAL ARROW LT OR RT
		2R12	5755+65	LT	–	1	1	TO 94 RT ARROW, TO 41 RT ARROW
		2R13	5755+65	LT	–	1	1	11 DIRECTIONAL ARROW LT OR RT
		2R14	5755+65	LT	–	1	1	STOP
		3R01	5758+11	RT	–	1	1	STOP AHEAD
		3R02	5758+50	LT	–	1	1	JCT 11
		3R03	5760+37	LT	–	1	1	STOP AHEAD
		3R04	5760+82	LT	–	1	1	RAIL ROAD CROSSING
		*3M05	60+10	RT	–	–	–	DEAD END
		*3M06	60+10	RT	3M05	–	–	3/4 MILE
		3R07	60+24	RT	3R13	1	1	STOP
		3R08	60+44	RT	–	1	1	ALT WEST 94 LT ARROW, ALT NORTH 41 LT ARROW
		*3M09	60+77	RT	–	–	–	WEIGHT LIMIT 3 TONS
		*3M10	60+10	LT	–	–	–	DEAD END
		*3M11	60+10	LT	3M10	–	–	3/4 MILE
		3R12	58+85	RT	–	1	1	TO 94 RT ARROW, TO 41 RT ARROW
		3R13	60+24	RT	3R07	1	–	CROSS TRAFFIC DOES NOT STOP
		3R14	59+52	LT	–	1	1	DOUBLE NIGHT ARROW
	EX. EAST FRONTAGE ROAD							
		4R01	7769+62	RT	–	1	1	NO PASSING ZONE
		4R02	7769+68	RT	–	1	1	STOP AHEAD
	LOUIS SORENSON ROAD							
		*5M01	51L+84	RT	–	–	–	WEIGHT LIMIT CLASS B
		5R02	51L+84	LT	–	1	1	STOP
		*5M03	53L+55	RT	–	–	–	SPEED LIMIT 45
		5R04	57L+31	LT	–	1	1	STOP AHEAD
		TOTALS	(I.D. 1030-24-70)			30	26	

TRAFFIC CONTROL ITEMS

CATEGORY	LOCATION	STAGE	STAGE DURATION DAYS	643.0300 TRAFFIC CONTROL DRUMS NO.	643.0300 TRAFFIC CONTROL DRUMS DAYS	643.0420 TRAFFIC CONTROL BARRICADES TYPE III NO.	643.0420 TRAFFIC CONTROL BARRICADES TYPE III DAYS	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A NO.	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A DAYS	643.0900 TRAFFIC CONTROL SIGNS NO.	643.0900 TRAFFIC CONTROL SIGNS DAYS	643.1050 TRAFFIC CONTROL SIGNS PCMS NO.	643.1050 TRAFFIC CONTROL SIGNS PCMS DAYS	643.3000 TRAFFIC CONTROL DETOUR SIGNS NO.	643.3000 TRAFFIC CONTROL DETOUR SIGNS DAYS
1000	EAST FRONTAGE ROAD	2	108	30	3,240	16	1,728	32	3,456	29	3,132	–	–	119	12,852
	UNDISTRIBUTED			--	163	--	88	--	177	–	313	2	30	–	1,287
	TOTALS (I.D. 1030-24-70)				3,403		1,816		3,633		3,445		30		14,139

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FIELD FACILITIES OFFICE SPACE

CATEGORY	ROADWAY	SPV.0060.088 EACH
1000	EAST FRONTAGE RD	0.2
	TOTAL (I.D. 1030-24-70)	0.2

TRAFFIC CONTROL SIGNS FIXED MESSAGE

CATEGORY	LOCATION	STAGE	SIGN NO.	643.1000 TRAFFIC CONTROL SIGNS FIXED MESSAGE SF
1000	EAST FRONTAGE ROAD	1	1305	13.00
			1306	24.00
			1307	24.00
			1308	24.00
			1309	24.00
			1310	24.00
			TOTAL	133.00

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TRAFFIC CONTROL ITEMS (PROJECT)

CATEGORY	ROADWAY	643.0100.028 TRAFFIC CONTROL 1030-24-70 EACH	643.2000.016 TRAFFIC CONTROL DETOUR 1030-24-70 EACH
1000	EAST FRONTAGE ROAD	1	1
	TOTALS (I.D. 1030-24-70)	1	1

TRAFFIC CONTROL COVERING SIGNS

CATEGORY	LOCATION	STAGE	STATION	OFFSET	643.0920 TRAFFIC CONTROL COVERING SIGNS TYPE II EACH	NO. CYCLES	NO. SIGNS	SIGN MESSAGE
1000	CTH KR WESTBOUND			RT	1	1	1	NORTH (ARROW)
				RT	1	1	1	EAST FRONTAGE ROAD (ARROW)
1000	CTH KR EASTBOUND			RT	1	1	1	ALT WEST I-94 (ARROW)
				RT	1	1	1	EAST FRONTAGE ROAD (ARROW)
1000	STH 11 WESTBOUND			RT	1	1	1	EAST FRONTAGE ROAD (ARROW)
				LT	1	1	1	EAST FRONTAGE ROAD (ARROW)
				LT	1	1	1	PARK & RIDE (ARROW)
				RT	1	1	1	EAST FRONTAGE ROAD (ARROW)
				LT	1	1	1	EAST FRONTAGE ROAD (ARROW)
1000	STH 11 EASTBOUND			LT	1	1	1	EAST STH 11 (ARROW)
				RT	1	1	1	PARK & RIDE (ARROW)
				RT	1	1	1	CRASH INVESTIGATION
				RT	1	1	1	RIGHT LANE MUST TURN RIGHT
				RT	1	1	1	EAST FRONTAGE ROAD (ARROW)
				RT	1	1	1	ALT EAST I-94 (ARROW)
				RT	1	1	1	ALT SOUTH I-41 (ARROW)
				LT	1	1	1	ALT WEST I-94 (ARROW)
				LT	1	1	1	ALT NORTH I-41 (ARROW)
1000	STH 20 WESTBOUND			RT	1	1	1	EAST FRONTAGE ROAD (ARROW)
				LT	1	1	1	EAST FRONTAGE ROAD (ARROW)
1000	STH 20 EASTBOUND			RT	1	1	1	RIGHT LANE MUST TURN RIGHT
				RT	1	1	1	RIGHT LANE MUST TURN RIGHT
				LT	1	1	1	EAST FRONTAGE ROAD (ARROW)
				RT	1	1	1	ALT EAST I-94 (ARROW)
				RT	1	1	1	ALT SOUTH I-41 (ARROW)
	TOTALS (I.D. 1030-24-70)				25			

PAVEMENT MARKING

CATEGORY	ROADWAY	DESCRIPTION	STATION	646.0106 PAVEMENT MARKING EPOXY 4-INCH YELLOW LF	646.2304.S PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH WHITE LF	646.2308.S PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 8-INCH WHITE LF	646.2308.S PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 8-INCH DASHED WHITE 3' LINE, 9' SKIP LF	647.0726 PAVEMENT MARKING DIAGONAL EPOXY 12-INCH YELLOW LF	647.0166 PAVEMENT MARKING ARROWS EPOXY TYPE 2 EACH	647.0176 PAVEMENT MARKING ARROWS EPOXY TYPE 3 EACH	647.0356 PAVEMENT MARKING WORDS EPOXY EACH	647.0456 PAVEMENT MARKING CURB EPOXY LF	647.0566 PAVEMENT MARKING STOP LINE EPOXY 18-INCH LF	647.0606 PAVEMENT MARKING ISLAND NOSE EPOXY EACH
1000	EAST FRONTAGE ROAD													
		RIGHT EDGE OF PAVEMENT	3730+00 - 3754+28	–	2,423	–	–	--	–	--	--	–	--	–
		LEFT EDGE OF PAVEMENT	3730+00 - 3754+86	–	2,494	–	–	--	–	--	--	–	--	–
		CENTER LINE (DOUBLE)	3730+00 - 3755+10	5,020	–	–	–	--	–	--	--	–	--	–
		RIGHT TURN LANE TAPER	3754+28 - 3756+22	–	–	–	49	--	–	--	--	–	--	–
		RIGHT EDGE OF PAVEMENT	3754+28 - 3759+12	–	499	–	–	--	–	--	--	–	--	–
		LEFT EDGE OF PAVEMENT	3754+86 - 3758+86	–	391	–	–	--	–	--	--	–	--	–
		CENTER LINE (DOUBLE)	3755+10 - 3759+20	829	–	–	–	--	–	--	--	–	--	–
		GORE AREA	3755+10 - 3759+20	–	–	–	–	260	–	--	--	–	--	–
		BIKE LANE	3756+22 - 3759+20	–	303	303		--	–	--	--	–	--	–
		RIGHT TURN LANE	3756+22 - 3759+20	–	–	–	–	--	2	--	2	–	--	–
		LEFT TURN OR THROUGH LANE	3756+22 - 3759+20	–	–	–	–	--	–	2	--	–	--	–
		NB STOP LINE	3759+20	–	–	–	–	--	–	--	--	–	40	–
		SB STOP LINE	5755+58	–	–	–	–	--	–	--	--	–	46	–
		RIGHT TURN LANE	5755+58 - 5757+00	–	–	–	–	--	2	--	1	–	--	–
		LEFT TURN OR THROUGH LANE	5755+58 - 5757+00	–	–	–	–	--	–	2	--	–	--	–
		CENTER LINE (DOUBLE)	5755+58 - 5761+43	–	1,182	–	–	--	–	--	--	–	--	–
		GORE AREA	5755+58 - 5761+43	–	–	–	–	207	–	--	--	–	--	–
		BIKE LANE	5755+58 - 5757+03	–	145	145	–	--	–	--	--	–	--	–
		BIKE LANE	5757+03 - 5759+03	–	–	–	50	--	–	--	--	–	--	–
		RIGHT EDGE OF PAVEMENT	5755+80 - 5761+26	–	548	–	–	--	–	--	--	–	--	–
		LEFT EDGE OF PAVEMENT	5755+64 - 5761+56	–	595	–	–	--	–	--	--	–	--	–
		MEDIAN ISLAND	5756+22 - 5756+62	–	–	–	–	--	–	--	--	52	--	2
		LEFT TURN LANE	5759+13 - 5761+43	–	–	50	45	--	1	--	--	–	--	–
		LEFT TURN LANE	5763+00 - 5765+20	–	–	39	45	--	1	--	--	–	--	–
		CENTER LINE (DOUBLE)	5763+00 - 5767+59	917	–	–	–	--	–	--	--	–	--	–
		GORE AREA	5763+39 - 5767+59	–	–	–	–	120	–	--	--	–	--	–
		RIGHT EDGE OF PAVEMENT	5762+76 - 5788+00	–	2,522	–	–	--	–	--	--	–	--	–
		LEFT EDGE OF PAVEMENT	5763+06 - 5791+00	–	2,816	–	–	--	–	--	--	–	--	–
		CENTER LINE (DOUBLE)	5767+59 - 5791+00	4,682	–	–	–	--	–	--	--	–	--	–
		BIKE LANE	5784+00 - 5788+00	–	200	200	50	--	–	--	--	–	--	–
		RIGHT TURN LANE	5786+00 - 5788+00	–	–	–	–	--	2	--	2	–	--	–
		RIGHT EDGE OF PAVEMENT	5789+41 - 5791+00	–	161	–	–	--	–	--	--	–	--	–
	58TH ROAD													
		LEFT EDGE OF PAVEMENT	57+72 - 58+47	–	75	–	–	--	–	--	--	–	--	–
		RIGHT EDGE OF PAVEMENT	57+72 - 58+78	–	106	–	–	--	–	--	--	–	--	–
		CENTER LINE (DOUBLE)	57+72 - 58+94	244	–	–	–	--	–	--	--	–	--	–
		EB STOP LINE	58+94	–	–	–	–	--	–	--	--	–	21	–
		WB STOP LINE	59+98	–	–	–	–	--	–	--	--	–	20	–
		LEFT EDGE OF PAVEMENT	60+12 - 62+00	–	189	–	–	--	–	--	--	–	--	–
		RIGHT EDGE OF PAVEMENT	60+42 - 62+00	–	158	–	–	--	–	--	--	–	--	–
		CENTER LINE (DOUBLE)	59+98 - 62+00	404	–	–	–	--	–	--	--	–	--	–
	LOUIS SORENSON ROAD											–		–
		STOP LINE	51+74	–	–	–	–	--	–	--	--	–	34	–
		CENTER LINE (DOUBLE)	51+74 - 58+15	1,282	–	–	–	--	–	--	--	–	--	–
		RIGHT EDGE OF PAVEMENT	52+10 - 58+15	–	604	–	–	--	–	--	--	–	--	–
		LEFT EDGE OF PAVEMENT	52+18 - 58+15	–	599	–	–	--	–	--	--	–	--	–
		SUBTOTALS (I.D. 1030-24-70)		13,378	16,010	737	239							
		TOTALS (I.D. 1030-24-70)		13,378	16,010	976		587	8	4	5	52	161	2

LOCATING NO PASSING ZONES

CATEGORY	ROADWAY	START		END	648.0100 MI
1000	EAST FRONTAGE ROAD	3730+00	-	5791+00	1.23
	TOTAL (I.D. 1030-24-70)				1.23

SAW CUTTING ITEMS

CATEGORY	ROADWAY	STA	LOCATION	690.0150 SAWING ASPHALT LF	690.0250 SAWING CONCRETE LF	DESCRIPTION
1000	EAST FRONTAGE ROAD					
		3755+32	LT	65	--	DRIVEWAY
		3755+32	RT	14	--	DRIVEWAY
		3759+31	LT & RT	--	135	MATCH PT.
		5755+48	LT & RT	--	130	MATCH PT.
	58TH ROAD					
		57+72	LT & RT	34	--	BEGIN CONSTRUCTION MATCH POINT
		62+00	LT	22	--	END CONSTRUCTION MATCH POINT
	LOUIS SORENSON ROAD					
		58L+15	LT & RT	21	--	END CONSTRUCTION MATCH POINT
		TOTALS (I.D. 1030-24-70)		156	265	

3

SURVEY PROJECT

CATEGORY	LOCATION	SPV.0105.028 SURVEY PROJECT 1030-24-70 LS
1000	PROJECT ID 1030-24-70	1
	TOTAL (I.D. 1030-24-70)	1

PAVEMENT CLEANUP PROJECT 1030-24-70

CATEGORY	ROADWAY	SPV.0075.029 HRS
1000	EAST FRONTAGE ROAD	30
	TOTAL (I.D. 1030-24-70)	30

WATER

CATEGORY	ROADWAY	624.0100 WATER MGAL
1000	EAST FRONTAGE ROAD	430
	TOTAL (I.D. 1030-24-70)	430

DUST CONTROL SURFACE TREATMENT

CATEGORY	ROADWAY	623.0200 SY
1000	EAST FRONTAGE ROAD	20,400
	TOTAL (I.D. 1030-24-70)	20,400

TRACKING PADS

CATEGORY	ROADWAY	LOCATION	628.7560 TRACKING PADS EACH
1000	EAST FRONTAGE ROAD		
		N. OF STH 11	3
		S. OF STH 11	3
	TOTAL (I.D. 1030-24-70)		6

3

STORM SEWER ITEMS

STAGE	STRUCTURE NUMBER	STATION	OFFSET FT		611.3230 INLETS 2x3-FT EACH	611.0627 INLET COVERS TYPE HM EACH	RIM OR FLANGE ELEV	STR DEPTH FT	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE	608.0324 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 24-INCH LF	522.1024 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH EACH	633.5200 MARKERS CULVERT END EACH	204.0280 SEALING PIPES EACH	NOTES
13 EAST FRONTAGE ROAD																		
	500	5784+05	42.64	LT	--	--	--	--	500	501	763.00	762.50	0.54%	93	--	--	1	SEAL WEST END OF PIPE FOR FUTURE CONNECTION
	501	5783+94	49.74	RT	--	--	--	--	501	OUTFALL	762.50	--	--	--	1	1	--	
	502	5787+00	20.00	LT	1	1	771.95	5.91	502	503	765.21	764.47	1.00%	74	--	--	--	
	503	5787+00	54.05	RT	--	--	--	--	503	OUTFALL	764.47	--	--	--	1	1	--	
					1	1								167	2	2	1	

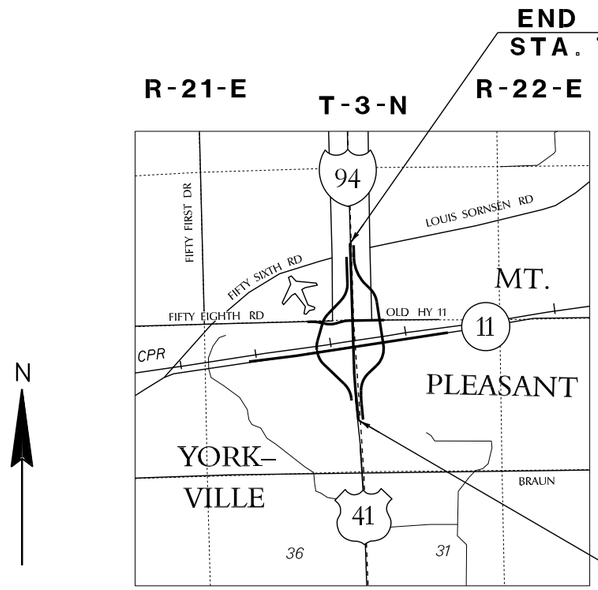
NOTES

1) APRON ENDWALLS: STATIONS AND OFFSETS ARE TO THE APRON END OF ENDWALLS.
2) PIPE LENGTHS ARE MEASURED TO THE CENTER OF STRUCTURES OR TO THE APRON END OF ENDWALLS (INCLUDES LENGTH OF AEW).
3) MANHOLES AND INLETS: RIM ELEVATIONS, STATIONS AND OFFSETS ARE GIVEN AT THE CENTER OF CASTING
4) STRUCTURE DEPTH = RIM ELEVATION - INVERT - CASTING HEIGHT ADJUSTMENT
   CASTING HEIGHT = 0.75 FT FOR J COVERS; 0.5 FT FOR TYPE HM AND S COVERS; 0 FT FOR TYPE MS COVERS
   ADJUSTMENT (RINGS) = 0.33 FT FOR J, HM AND S COVERS; 0 FT FOR TYPE MS COVERS
5) FLAT TOP SLAB WITH CENTERED 24" X 36" RECTANGULAR OPENING REQUIRED ON MANHOLES WITH TYPE HM INLET COVERS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

TRANSPORTATION PROJECT PLAT TITLE SHEET

PROJECT NO. 1030-24-20
INTERSTATE 94
STH 11 INTERCHANGE
RACINE COUNTY



N

YORKVILLE **MT. PLEASANT**
R-21-E **R-22-E**
RACINE COUNTY

LAYOUT
SCALE 0 1 MILE

THE NOTES, CONVENTIONAL SYMBOLS, AND VARIOUS ABBREVIATIONS ARE ASSOCIATED WITH EACH TRANSPORTATION PROJECT PLAT OF PROJECT 1030-24-20.

NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, RACINE COUNTY ZONE, NAD83 (97) ADJUSTMENT AND ARE REFERENCED TO GPS HARN POINTS YORKVILLE EAST, RAYMOND SOUTH, AND PARIS EAST. ALL DISTANCES ARE GROUND LENGTH.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL ¾" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT, BY SE REGION DOT SURVEY.

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS OF PUBLIC RECORD".

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY LINES, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE. ALL TLEs EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

A PERMANENT LIMITED EASEMENT (PLE) IS A RIGHT FOR CONSTRUCTION AND MAINTENANCE PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE. BUT WITHOUT PREJUDICE TO THE OWNER'S RIGHT TO MAKE OR CONSTRUCT IMPROVEMENT ON SAID LANDS OR TO FLATTEN THE SLOPES, PROVIDING SAID ACTIVITIES WILL NOT IMPAIR OR OTHERWISE ADVERSELY AFFECT THE HIGHWAY FACILITIES.

CONVENTIONAL ABBREVIATIONS

ACCESS POINT	AP	RELEASE OF RIGHTS	ROR
ACCESS RIGHTS	AR	REMAINING	REM.
ACRES	AC.	RIGHT-OF-WAY	R/W
AND OTHERS	ET.AL.	SECTION	SEC.
CENTERLINE	C/L	STATION	STA.
CERTIFIED SURVEY MAP	CSM	TEMPORARY LIMITED EASEMENT	TLE
CORNER	COR.	VOLUME	V.
CONVEYANCE OF RIGHTS	CR		
DOCUMENT	DOC.	**CURVE DATA**	
EASEMENT	EASE.	LONG CHORD	LCH
LAND CONTRACT	LC	LONG CHORD BEARING	LCB
MONUMENT	MON.	RADIUS	R
PAGE	P.	DEGREE OF CURVE	D
PERMANENT LIMITED EASEMENT	PLE	CENTRAL ANGLE OR DELTA	DELTA
PROPERTY LINE	PL	LENGTH OF CURVE	L
RECORDED AS	(100')	TANGENT	TAN
REFERENCE LINE	R/L		

CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN	⌀ (1" UNLESS NOTED)	PROPOSED R/W LINE	
		EXISTING H.E. LINE	
R/W MONUMENT	●(SET)	PROPERTY LINE	
R/W STANDARD	▲(SET)	LOT & TIE LINES	
SIGN	SIGN	SLOPE INTERCEPTS	
SECTION CORNER MONUMENT		CORPORATE LIMITS	
SECTION CORNER SYMBOL		NO ACCESS (BY PREVIOUS ACQUISITION/CONTROL)	
FEE - HE (HATCH VARIES)		NO ACCESS (BY ACQUISITION)	
TEMPORARY LIMITED EASEMENT		NO ACCESS (BY STATUTORY AUTHORITY)	
PERMANENT LIMITED EASEMENT		SECTION LINE	
R/W BOUNDARY POINT	RWBZ0	QUARTER LINE	
PARCEL NUMBER	02	SIXTEENTH LINE	
SIGN NUMBER (OFF PREMISE)	21	EXISTING CENTERLINE	
BUILDING		PROPOSED REFERENCE LINE	
		PARALLEL OFFSET	

CONVENTIONAL UTILITY SYMBOLS

WATER	W	
GAS	G	
TELEPHONE	T	
OVERHEAD TRANSMISSION LINES	OH	
ELECTRIC	E	
CABLE TELEVISION	TV	
FIBER OPTIC	FO	
SANITARY SEWER	SAN	
STORM SEWER	SS	
	NON COMPENSABLE	COMPENSABLE
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		
ELECTRIC TOWER		

THIS IS A COPY, THE ORIGINAL DOCUMENT IS AT THE RACINE COUNTY REGISTER OF DEEDS.

TPP NUMBER 1030-24-20-4.01
SHEET 2 OF 2

DOCUMENT #2237987
RACINE COUNTY REGISTER OF DEEDS
December 29, 2009 8:24 AM
JAMES A LADWIG
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: $25.00
Pages: 2
Vol 1 pg 90

FILE NAME : J:\projects\d2_r_10302494\20\040400_rp.dgn PLOT DATE : 11-DEC-2009 08:11 PLOT BY : dotphk PLOT NAME : PLOT SCALE : 100.000000:1.000000
CONST. 1030-24-70 STH 11 R/W 1030-24-20 4.00

TRANSPORTATION PROJECT PLAT NO: 1030-24-20 - 4.01

THAT PART OF THE NE1/4 OF THE SE1/4, SECTION 25, TOWN 3 NORTH, RANGE 21 EAST, TOWN OF YORKVILLE, AND THE NW1/4 OF THE SW1/4, SECTION 30, TOWN 3 NORTH, RANGE 22 EAST, VILLAGE OF MT. PLEASANT, RACINE COUNTY, WISCONSIN.

RELOCATION ORDER IH-94/STH 11 RACINE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

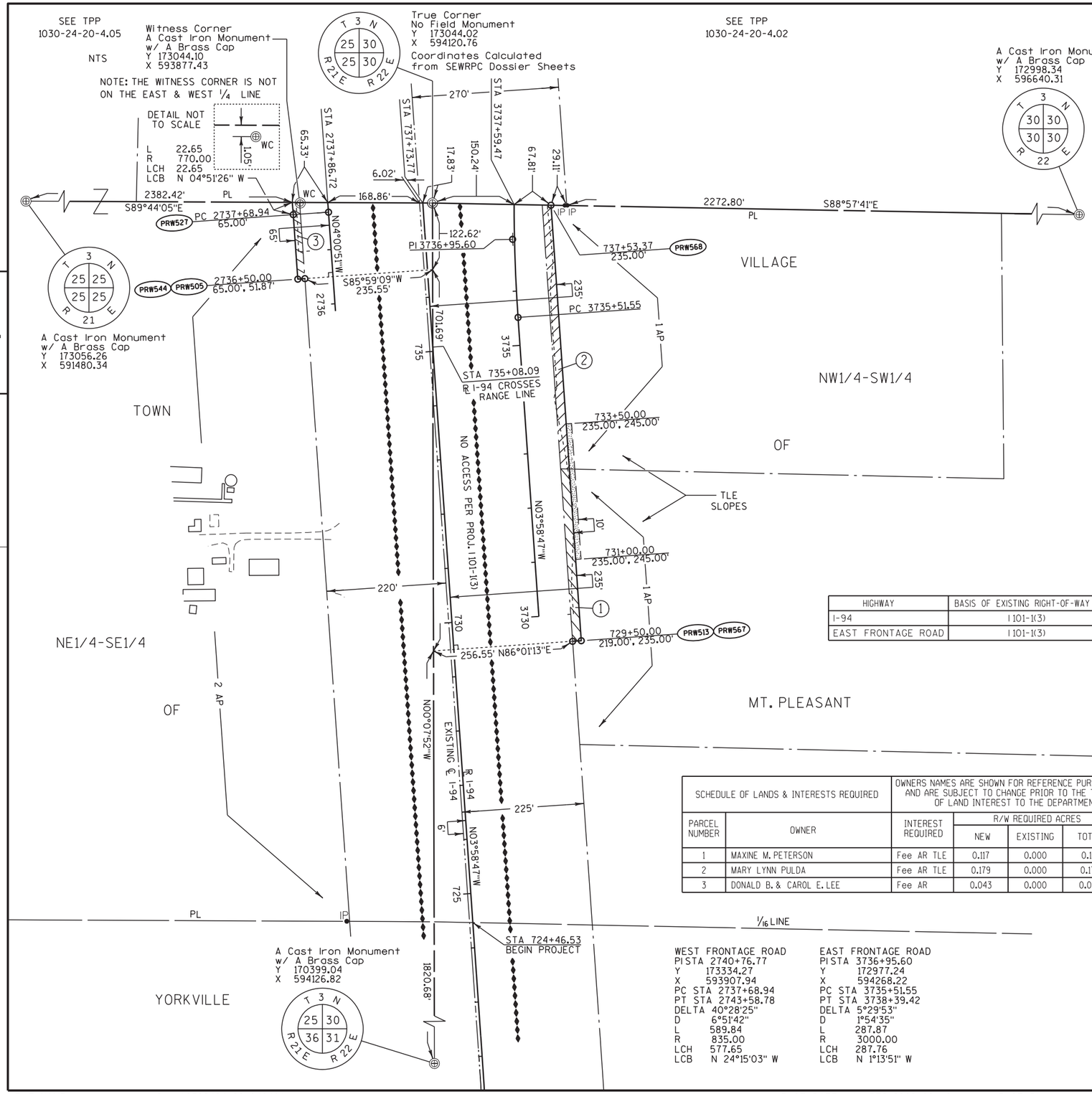
TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, RACINE COUNTY ZONE, NAD83 (97) ADJUSTMENT AND ARE REFERENCED TO GPS HARN POINTS YORKVILLE EAST, RAYMOND SOUTH, AND PARIS EAST. ALL DISTANCES ARE GROUND LENGTH.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL ¾" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT, BY SE REGION DOT SURVEY.

FOR THE LATEST ACCESS / DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

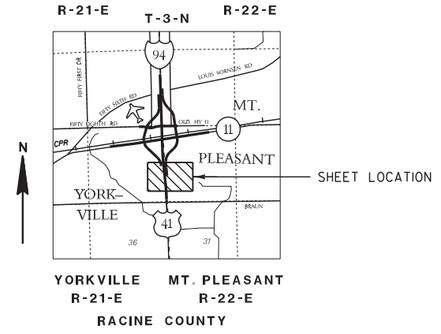


HIGHWAY	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
I-94	I 101-1(3)	VARIES	1956
EAST FRONTAGE ROAD	I 101-1(3)	VARIES	1956

SCHEDULE OF LANDS & INTERESTS REQUIRED		OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.				
PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED ACRES			T.L.E. TEMP. ACRES
			NEW	EXISTING	TOTAL	
1	MAXINE M. PETERSON	Fee AR TLE	0.117	0.000	0.117	0.038
2	MARY LYNN PULDA	Fee AR TLE	0.179	0.000	0.179	0.019
3	DONALD B. & CAROL E. LEE	Fee AR	0.043	0.000	0.043	0.000

WEST FRONTAGE ROAD
PISTA 2740+76.77
Y 173334.27
X 593907.94
PC STA 2737+68.94
PT STA 2743+58.78
DELTA 40°28'25"
D 6°51'42"
L 589.84
R 835.00
LCH 577.65
LCB N 24°15'03" W

EAST FRONTAGE ROAD
PISTA 3736+95.60
Y 172977.24
X 594268.22
PC STA 3735+51.55
PT STA 3738+39.42
DELTA 5°29'53"
D 1°54'35"
L 287.87
R 3000.00
LCH 287.76
LCB N 1°13'51" W



YORKVILLE R-21-E | MT. PLEASANT R-22-E
RACINE COUNTY

THIS IS A COPY, THE ORIGINAL DOCUMENT IS AT THE RACINE COUNTY REGISTER OF DEEDS.

GN

SCALE, FEET
0 100 200

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2, OF THIS DOCUMENT FOR ADDITIONAL INFORMATION.

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENTOF TRANSPORTA...

DATE: 12-11-09
Name Craig Andersen
Title Real Estate Supervisor

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:
DATE: 12-11-2009
Name Paul Krause

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1030-24-20-4.01
SHEET 1 OF 2
AMENDMENT NO:

DOCUMENT #2237987
RACINE COUNTY REGISTER OF DEEDS
December 29, 2009 8:24 AM
JAMES A LADWIG
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: $25.00
Pages: 2
Vol 1 pg 90

FILE NAME : J:\projects\d2_r_10302494\20\040401_rp.dgn
PLOT DATE : 11-DEC-2009 08:10
PLOT BY : dotphk
PLOT NAME :
PLOT SCALE : 100.000000:1.000000
CONST. 1030-24-70 STH 11 R/W 1030-24-20 4.01

TRANSPORTATION PROJECT PLAT NO: 1030-24-20 - 4.02
AMENDMENT NO: 3

AMENDS PARCEL 100 OF TPP 1030-24-20-4.02 AMENDMENT NO: 2, RECORDED AS DOCUMENT 2288420.

THAT PART OF THE SW1/4 OF THE NW1/4 AND THE NW1/4 OF THE NW1/4, SECTION 30, TOWN 3 NORTH, RANGE 22 EAST, VILLAGE OF MT. PLEASANT, RACINE COUNTY, WISCONSIN.

RELOCATION ORDER IH-94/STH 11 RACINE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF DOCUMENT 2237987, OF TRANSPORTATION PROJECT PLATS IN THE RACINE COUNTY REGISTER OF DEEDS.

HIGHWAY	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
I-94	I 101-1(3)	VARIES	1956
I-94	2382	VARIES	1935
STH 11	1320-03-20	VARIES	2000
STH 11	2665	94'	1927
EAST FRONTAGE ROAD	1320-03-20	VARIES	2000
EAST FRONTAGE ROAD	1032-01-21	VARIES	1969
58TH ROAD	TOWN ROAD V. B P.62	49.50'	1843

NOTE: SEE CONTROLLED ACCESS PLAT 1320-00-27

NOTE: THE WITNESS CORNER IS NOT ON THE EAST & WEST 1/4 LINE

Witness Corner
A Cast Iron Monument
w/ A Brass Cap
Y 173044.10
X 593877.43

DETAIL NOT TO SCALE

True Corner
No Field Monument
Y 173044.02
X 594120.76

Coordinates Calculated from SEWRPC Dossier Sheets

SEE TPP 1030-24-20-4.05

SEE TPP 1030-24-20-4.01

SEE TPP 1030-24-20-4.03

SEE TPP 1030-24-20-4.04

I-94
PISTA 744+39.94
Y 173708.68
X 594056.69
PC STA 739+64.64
PT STA 749+14.88
DELTA 3°53'20"
D 0°24'33"
L 950.25'
R 14000.00'
LCH 950.06'
LCB N 2°02'07" W

EAST FRONTAGE ROAD
PISTA 3736+95.60
Y 172977.24
X 594268.22
PC STA 3735+51.55
PT STA 3738+39.42
DELTA 5°29'53"
D 1°54'35"
L 287.87'
R 3000.00'
LCH 287.76'
LCB N 1°13'51" W

EAST FRONTAGE ROAD
PISTA 3743+74.44
Y 173656.07
X 594286.21
PC STA 3740+20.91
PT STA 3746+88.34
DELTA 46°43'12"
D 7°00'00"
L 667.43'
R 818.51'
LCH 649.09'
LCB N 24°52'41" E

EAST FRONTAGE ROAD
PISTA 3755+01.36
Y 174433.03
X 595156.36
PC STA 3750+73.45
PT STA 3758+62.03
DELTA 55°12'04"
D 7°00'00"
L 788.58'
R 818.51'
LCH 758.44'
LCB N 20°38'16" E

STA 755+53.87 I-94 = STA 134+21.89 STH 11

STA 764+28.24 I-94 = STA 50+00.00 58TH ROAD

STA 134+86.24

STA 50+64.34 58TH ROAD

STA 3737+59.47

STA 59+19.80 58TH ROAD = STA 80+00.00 CUL DE SAC

STA 59+50.71 58TH ROAD = STA 57+62+16.19 E FR NORTH

L 833.34'
R 12277.67'
LCH 833.18'
LCB N 02°02'07" W

L 216.51'
R 768.51'
LCH 215.79'
LCB N 37°00'19" E

L 211.26'
R 908.51'
LCH 210.78'
LCB N 36°13'05" E

L 465.02'
R 888.51'
LCH 459.73'
LCB N 12°12'07" E

(100) NO RECORDED EASEMENT PCL. 8
V. 919 P. 279 DOC. 811995 PCL. 9

(101) NO RECORDED EASEMENT PCL. 8

(103) V 485 P 507 DOC. 544359 PCL. 9,11

ACCESS FOR PARCEL 5 VIA NONDESCRIPT EASEMENT AGREEMENT V 2513 P 899

NO ACCESS PER PROJ. I 101-1(3)

NO ACCESS, PER PROJ. 1032-01-21

NO ACCESS, PER PROJ. 1320-03-20

DOT LANDS PARK & ROAD

TLE SLOPES

TLE SLOPES & DRIVE

TLE DRIVE

1 AP

1 AP PER PROJ. 1320-03-20

DETAIL NOT TO SCALE

SHEET LOCATION

MOUNT PLEASANT

VILLAGE OF

SW1/4-NW1/4

NW1/4-NW1/4

R EAST FRONTAGE ROAD

R NORTH BOUND ON RAMP

R NORTH BOUND EXIT RAMP

R NORTH BOUND ON RAMP

R STH 11

℄ STH 11

℄ I-94

SOO LINE RAILROAD CO.

1/16 LINE

A Concrete Monument w/ An Aluminum Cap
Y 175696.15
X 594117.87

A Cast Iron Monument
w/ A Brass Cap
Y 172998.34
X 596640.31

A Cast Iron Monument
Y 175603.19
X 596615.74

NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, RACINE COUNTY ZONE, NAD83 (97) ADJUSTMENT AND ARE REFERENCED TO GPS HARN POINTS YORKVILLE EAST, RAYMOND SOUTH, AND PARIS EAST. ALL DISTANCES ARE GROUND LENGTH.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL ¾" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT, BY SE REGION DOT SURVEY.

FOR THE LATEST ACCESS / DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

SCHEDULE OF LANDS & INTERESTS REQUIRED		OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.					
			R/W REQUIRED ACRES			T.L.E.	P.L.E.
PARCEL NUMBER	OWNER	INTEREST REQUIRED	NEW	EXISTING	TOTAL	TEMP. ACRES	PERM. ACRES
4	VERENA E. PETERSEN TRUST	Fee AR	0.007	0.000	0.007	0.000	0.000
5	RODNEY A. JENSEN	Fee AR TLE	0.054	0.000	0.054	0.044	0.000
6	ELIMINATED		0.000	0.000	0.000	0.000	0.000
7	JOSEPH C. MRAZEK SR.	Fee AR TLE	0.133	0.000	0.133	0.097	0.000
8	SOO LINE RAILROAD COMPANY	HE	0.593	0.000	0.593	0.000	0.000
9	LAKE-COOK FARM SUPPLY	Fee AR TLE	0.433	0.255	0.688	0.090	0.000
10	W. H. PUGH OIL CO.	Fee TLE	0.316	0.418	0.734	0.033	0.000
11	CHARLES R. & MARILYN A. ENGEL	Fee	0.465	0.045	0.510	0.000	0.000
100	WE ENERGIES ELECTRIC	ROR	-----	-----	-----	-----	-----
101	WE ENERGIES GAS	ROR	-----	-----	-----	-----	-----
103	AT&T WISCONSIN	ROR	-----	-----	-----	-----	-----

SCALE, FEET
0 100 200

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1030-24-20-4.02
AMENDMENT NO: 3

DOCUMENT # 2294368
RACINE COUNTY REGISTER OF DEEDS
September 15, 2011 12:00 PM
TYSON FEITES
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: $30.00
Pages: 1
Vol 1 Pg 189

THIS IS A COPY, THE ORIGINAL DOCUMENT IS AT THE RACINE COUNTY REGISTER OF DEEDS

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENTOF TRANSPORTATION.

DATE: 9-6-2011
Name
Title

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 9-6-2011
Name PAUL KRAUSE

FILE NAME : J:\projects\d2_r_10302494\20\040402A3_rp.dgn
PLOT DATE : 02-SEP-2011 09:35
PLOT BY : dotphk
PLOT NAME :
PLOT SCALE : 100.000000:1.000000
CONST. 1030-24-70 STH 11 R/W 1030-24-20 4.02A3

TRANSPORTATION PROJECT PLAT NO: 1030-24-20 - 4.03
AMENDMENT NO: 1

AMENDS PARCEL 100 OF TPP 1030-24-20-4.03, RECORDED AS DOCUMENT 2240908.

THAT PART OF PARCEL 2 OF CSM 1085, LOCATED IN AND INCLUDING THAT PART OF THE NE1/4 OF THE NW1/4, AND THE NW1/4 OF THE NW1/4, SECTION 30, TOWN 3 NORTH, RANGE 22 EAST, VILLAGE OF MT. PLEASANT, RACINE COUNTY, WISCONSIN.

RELOCATION ORDER IH-94/STH 11 RACINE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

SCHEDULE OF LANDS & INTERESTS REQUIRED		OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.					
PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED ACRES			T.L.E. TEMP. ACRES	P.L.E. PERM. ACRES
			NEW	EXISTING	TOTAL		
8	SOO LINE RAILROAD COMPANY	HE TLE	0.432	0.000	0.432	0.155	0.000
9	LAKE-COOK FARM SUPPLY	Fee	0.062	0.000	0.062	0.000	0.000
12	WALTER THOMAS HARMANN	TLE	0.000	0.000	0.000	0.123	0.000
13	JAY D. & JANE E. WILDFONG	TLE	0.000	0.000	0.000	0.010	0.000
14	KAREN A. SCHUTTEN	Fee AR TLE	0.252	0.129	0.381	0.021	0.000
100	WE ENERGIES ELECTRIC	ROR	-----	-----	-----	-----	-----
103	AT&T WISCONSIN	ROR	-----	-----	-----	-----	-----

HIGHWAY	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
STH 11	1320-03-20	VARIES	2000
STH 11	2665	94'	1927
EAST FRONTAGE ROAD	1320-03-20	VARIES	2000
EAST FRONTAGE ROAD	1032-01-21	VARIES	1969
58TH ROAD	TOWN ROAD V. B P.62	49.50'	1843

NOTE: EXISTING RIGHT-OF-WAY FOR STH 11 IS MEASURED IN METERS PER PROJECT 1320-03-20

NOTE: SEE CONTROLLED ACCESS PLAT 1320-00-27

A Concrete Monument w/ An Aluminum Cap
Y 175696.15
X 594117.87

A Cast Iron Monument w/ A Brass Cap
Y 175650.19
X 596615.74

SEE TPP 1030-24-20-4.04

DETAIL NOT TO SCALE

STA 59+50.71 58TH ROAD = STA 5762+15.17 E FR NORTH

STA 50+64.34 58TH ROAD

STA 75+62.64 58TH ROAD

TLE FOR BUILDING REMOVAL

DETAIL NOT TO SCALE

SEE TPP 1030-24-20-4.02

STA 144+67.93 STH 11 = STA 5754+78.75 E FR NORTH = STA 3759+53.78 E FR SOUTH

STA 160+06.27 STH 11

PT 3758+62.03

L 59.59'
R 818.51'
LCH 59.58'
LCB N 04°52'37" W

VILLAGE

OF

MT. PLEASANT

NW1/4-NW1/4

NE1/4-NW1/4

NW1/4-NE1/4

SOO LINE RAILROAD CO.

℄ STH 11 1927

℄ STH 11

℄ EAST FRONTAGE ROAD

TLE SLOPES

TLE SLOPES & DRIVE

NO ACCESS PER PROJ. 1320-03-20

1 AP PER PROJ. 1320-03-20

PARCEL 1 CSM 1085 V 3 P 202

PARCEL 2 CSM 1085 V 3 P 202

PI 160+50.00 Y=175139.27 X=596663.94

PI 167+51.97 Y=175221.76 X=597361.04

EAST FRONTAGE ROAD SOUTH
PI STA 3755+01.36
Y 174433.03
X 595156.36
PC STA 3750+73.45
PT STA 3758+62.03
DELTA 55°12'04"
D 7°00'00"
L 788.58'
R 818.51'
LCH 758.44'
LCB N 20°38'16" E

A Cast Iron Monument w/ A Brass Cap
Y 172998.34
X 596640.31

R-21-E T-3-N R-22-E

SHEET LOCATION

YORKVILLE R-21-E MT. PLEASANT R-22-E

RACINE COUNTY

(100) NO RECORDED EASEMENT PCL. 8

(103) V 485 P 507 DOC. 544359 PCL. 14

SCALE, FEET
0 100 200

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF DOCUMENT 2237987, OF TRANSPORTATION PROJECT PLATS IN THE RACINE COUNTY REGISTER OF DEEDS.

NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, RACINE COUNTY ZONE, NAD83 (97) ADJUSTMENT AND ARE REFERENCED TO GPS HARN POINTS YORKVILLE EAST, RAYMOND SOUTH, AND PARIS EAST. ALL DISTANCES ARE GROUND LENGTH.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL ¾" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT, BY SE REGION DOT SURVEY.

FOR THE LATEST ACCESS / DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

THIS IS A COPY, THE ORIGINAL DOCUMENT IS AT THE RACINE COUNTY REGISTER OF DEEDS

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES, THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENTOF TRANSPORTATION.

DATE: 9-6-2011 — Name: J E Andersen — Title:

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 9-6-2011 — Name: Paul Krause

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1030-24-20-4.03
AMENDMENT NO: 1

DOCUMENT # 2294369
RACINE COUNTY REGISTER OF DEEDS
September 15, 2011 12:00 PM
TYSON FETTES
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: $30.00
Pages: 1
Vol 1 Pg 200

FILE NAME : J:\projects\d2_r_10302494\20\040403A1_rp.dgn PLOT DATE : 02-SEP-2011 09:36 PLOT BY : dotphk PLOT NAME : PLOT SCALE : 100.000000:1.000000
CONST. 1030-24-70 STH 11 R/W 1030-24-20 4.03A1

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF DOCUMENT 2237987, OF TRANSPORTATION PROJECT PLATS IN THE RACINE COUNTY REGISTER OF DEEDS.

NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, RACINE COUNTY ZONE, NAD83 (97) ADJUSTMENT AND ARE REFERENCED TO GPS HARN POINTS YORKVILLE EAST, RAYMOND SOUTH, AND PARIS EAST. ALL DISTANCES ARE GROUND LENGTH.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL ¾" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT, BY SE REGION DOT SURVEY.

FOR THE LATEST ACCESS / DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

HIGHWAY	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
I-94	1101-1(3)	VARIES	1956
I-94	2382	VARIES	1935
58TH ROAD	TOWN ROAD V. B P.62	49.50'	1843
LOUIS SORENSON ROAD	RACINE & BURLINGTON TERRITORIAL ROAD	66'	1846

(100) V. 2236 P. 810 DOC. 1411771 PCL. 20
V. 1766 P. 752 DOC. 1176978 PCL. 18
V. 2236 P. 804 DOC. 1411769 PCL. 18
V. 2236 P. 807 DOC. 1411770 PCL. 19
(103) V. 2236 P. 807 DOC. 1411770 PCL. 19
V. 2236 P. 804 DOC. 1411769 PCL. 18
V. 2236 P. 810 DOC. 1411771 PCL. 20

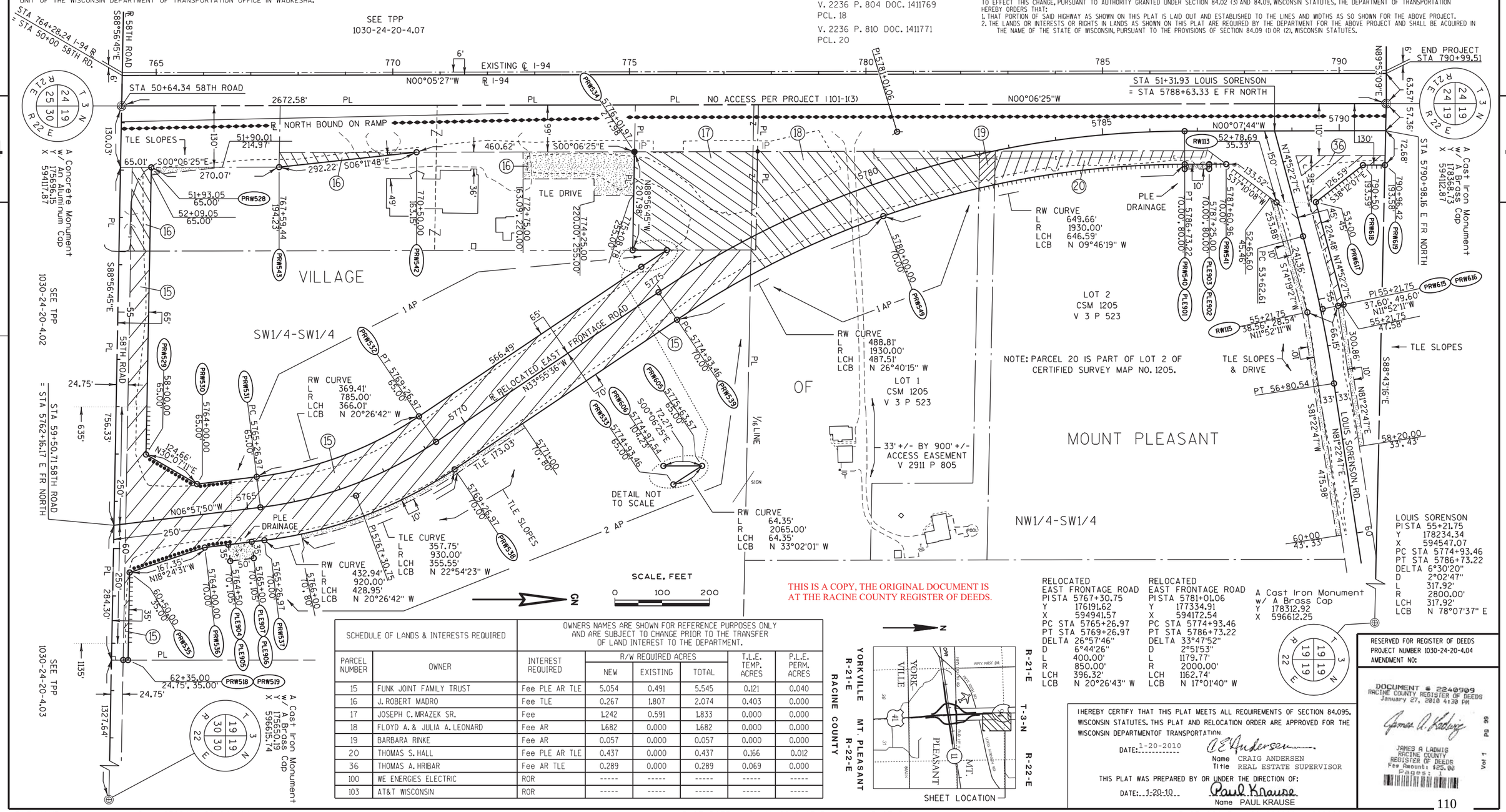
TRANSPORTATION PROJECT PLAT NO: 1030-24-20 - 4.04

THAT PART OF LOT 1 AND LOT 2 OF CSM 1205, LOCATED IN AND INCLUDING THAT PART OF THE NW1/4 OF THE SW1/4, AND THAT PART OF THE SW1/4 OF THE SW1/4 OF SECTION 19, TOWN 3 NORTH, RANGE 22 EAST, VILLAGE OF MT. PLEASANT, RACINE COUNTY, WISCONSIN.

RELOCATION ORDER IH-94/STH 11 RACINE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.



SCHEDULE OF LANDS & INTERESTS REQUIRED		OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.					
			R/W REQUIRED ACRES			T.L.E.	P.L.E.
PARCEL NUMBER	OWNER	INTEREST REQUIRED	NEW	EXISTING	TOTAL	TEMP. ACRES	PERM. ACRES
15	FUNK JOINT FAMILY TRUST	Fee PLE AR TLE	5.054	0.491	5.545	0.121	0.040
16	J. ROBERT MADRO	Fee TLE	0.267	1.807	2.074	0.403	0.000
17	JOSEPH C. MRAZEK SR.	Fee	1.242	0.591	1.833	0.000	0.000
18	FLOYD A. & JULIA A. LEONARD	Fee AR	1.682	0.000	1.682	0.000	0.000
19	BARBARA RINKE	Fee AR	0.057	0.000	0.057	0.000	0.000
20	THOMAS S. HALL	Fee PLE AR TLE	0.437	0.000	0.437	0.166	0.012
36	THOMAS A. HRIBAR	Fee AR TLE	0.289	0.000	0.289	0.069	0.000
100	WE ENERGIES ELECTRIC	ROR	-----	-----	-----	-----	-----
103	AT&T WISCONSIN	ROR	-----	-----	-----	-----	-----

THIS IS A COPY, THE ORIGINAL DOCUMENT IS AT THE RACINE COUNTY REGISTER OF DEEDS.

RELOCATED EAST FRONTAGE ROAD
PI STA 5767+30.75
Y 176191.62
X 594941.57
PC STA 5765+26.97
PT STA 5769+26.97
DELTA 26°57'46"
D 6°44'26"
L 400.00'
R 850.00'
LCH 396.32'
LCB N 20°26'43" W

RELOCATED EAST FRONTAGE ROAD
PI STA 5781+01.06
Y 177334.91
X 594172.54
PC STA 5774+93.46
PT STA 5786+73.22
DELTA 33°47'52"
D 2°51'53"
L 1179.77'
R 2000.00'
LCH 1162.74'
LCB N 17°01'40" W

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1030-24-20-4.04
AMENDMENT NO:

DOCUMENT # 2240909
RACINE COUNTY REGISTER OF DEEDS
January 27, 2010 4:30 PM
JAMES A LADWIG
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: $25.00
Pages: 1
Vol 1 Pg 99

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENTOF TRANSPORTATION.

DATE: 1-20-2010
Name CRAIG ANDERSEN
Title REAL ESTATE SUPERVISOR

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 1-20-10
Name PAUL KRAUSE

FILE NAME : j:\projects\d2_r_10302494\20\040404_rp.dgn
PLOT DATE : 19-JAN-2010 17:31
PLOT BY : dotphk
PLOT NAME :
PLOT SCALE : 100.000000:1.000000
CONST. 1030-24-70 STH 11 R/W 1030-24-20 4.04

TRANSPORTATION PROJECT PLAT NO: 1030-24-20 - 4.05 AMENDMENT NO: 1

ADDS PARCEL 125 AND AMENDS PARCELS 8 & 100 OF TPP 1030-24-20-4.05, RECORDED AS DOCUMENT 2240910.

THAT PART OF THE NE1/4 OF THE NE1/4, THE SE1/4 OF THE NE1/4, AND THE NW1/4 OF THE NE1/4, SECTION 25, TOWN 3 NORTH, RANGE 21 EAST, TOWN OF YORKVILLE, RACINE COUNTY, WISCONSIN.

RELOCATION ORDER IH-94/STH 11 RACINE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

A Cast Iron Monument
w/ A Brass Cap
Y 173056.26
X 591480.34

SCHEDULE OF LANDS & INTERESTS REQUIRED			OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.			
PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED ACRES NEW	EXISTING	TOTAL	T.L.E. TEMP. ACRES
3	DONALD B. & CAROL LEE	Fee AR	0.042	0.000	0.042	0.000
8	SOO LINE RAILROAD COMPANY	HE TLE	1.249	0.000	1.249	0.907
21	ROBERT L. JR. & ANGELA S. KRENCISZ	Fee AR TLE	0.094	0.000	0.094	0.030
22	JEFFREY D. & BEVERLY L. LEE	Fee AR TLE	0.092	0.000	0.092	0.056
23	MARIA C. VARGAS	Fee AR TLE	0.621	0.000	0.621	0.074
24	YORKVILLE REAL ESTATE ASSC. LLC	Fee AR	0.531	TLE	0.531	0.000
25	13901-58TH ROAD LLC	Fee AR	3.767	0.511	4.278	0.000
125	13901-58TH ROAD LLC	TLE	0.000	0.000	0.000	0.168
100	WE ENERGIES ELECTRIC	ROR	-----	-----	-----	-----
101	WE ENERGIES GAS	ROR	-----	-----	-----	-----
103	AT&T WISCONSIN	ROR	-----	-----	-----	-----

NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, RACINE COUNTY ZONE, NAD83 (97) ADJUSTMENT AND ARE REFERENCED TO GPS HARN POINTS YORKVILLE EAST, RAYMOND SOUTH, AND PARIS EAST. ALL DISTANCES ARE GROUND LENGTH.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT. BY SE REGION DOT SURVEY.

FOR THE LATEST ACCESS / DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF DOCUMENT 2237987, OF TRANSPORTATION PROJECT PLATS IN THE RACINE COUNTY REGISTER OF DEEDS.

SEE TPP 1030-24-20-4.01

SE1/4-NE1/4

NW1/4-NE1/4

SEE TPP 1030-24-20-4.06

NE1/4-NE1/4

SEE TPP 1030-24-20-4.07

SEE TPP 1030-24-20-4.02

TOWN

YORKVILLE

SHEET LOCATION

R-21-E T-3-N R-22-E
YORKVILLE MT. PLEASANT
R-21-E R-22-E
RACINE COUNTY

OF

(100) V. 2750 P. 763 DOC. 1622630 PCL. 23

(101) NO RECORDED EASEMENT PCL. 25

(103) V. 483 P. 17 DOC. 542064 PCL. 25

THIS IS A COPY, THE ORIGINAL DOCUMENT IS AT THE RACINE COUNTY REGISTER OF DEEDS

NO ACCESS PER PROJECT 1032-01-21

NO ACCESS PER PROJ. 1101-1(3)

TLE SLOPES

TLE SLOPES & DRIVES

TLE FOR DITCHING

DETAIL NOT TO SCALE

RW CURVE
L 332.91'
R 795.00'
LCH 330.48'
LCB N 32°29'29" W

RELOCATED WEST FRONTAGE ROAD
PISTA 2740+76.77
Y 173334.27
X 593907.94
PC STA 2737+68.94
PT STA 2743+58.78
DELTA 40°28'25"
D 6°51'42"
L 589.84'
R 835.00'
LCH 577.65'
LCB N 24°15'03" W

WEST FRONTAGE ROAD
PISTA 2755+33.40
Y 174391.86
X 592869.10
PC STA 2753+44.31
PT STA 2757+14.36
DELTA 29°02'40"
D 7°50'55"
L 370.05'
R 730.00'
LCH 366.10'
LCB N 29°57'56" W

RELOCATED WEST FRONTAGE ROAD
PISTA 4752+97.87
Y 174921.80
X 592761.75
PC STA 4751+38.97
PT STA 4754+51.88
DELTA 24°33'33"
D 7°50'55"
L 312.91'
R 730.00'
LCH 310.52'
LCB N 5°22'02" E

RELOCATED WEST FRONTAGE ROAD
PISTA 4762+72.98
Y 175855.68
X 593058.83
PC STA 4760+61.94
PT STA 4764+75.65
DELTA 27°53'15"
D 6°44'26"
L 413.72'
R 850.00'
LCH 409.65'
LCB N 31°35'26" E

HIGHWAY	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
I-94	1101-1(3)	VARIES	1956
STH 11	1101-1(3)	VARIES	1956
STH 11	2665	94'	1927
WEST FRONTAGE ROAD	1032-01-21	VARIES	1969
58th ROAD	1101-1(3)	130'	1956
58th ROAD	WIDTH BY SS 82.31(2)	66'	

58TH ROAD
PISTA 36+70.73
Y 175699.42
X 592745.84
PC STA 35+52.29
PT STA 37+88.08
DELTA 13°30'35"
D 5°43'46"
L 235.79'
R 1000.00'
LCH 235.24'
LCB S 83°06'31" E

58TH ROAD
PISTA 42+22.27
Y 175569.04
X 593282.88
PC STA 40+15.48
PT STA 44+20.90
DELTA 27°49'09"
D 6°51'42"
L 405.42'
R 835.00'
LCH 401.45'
LCB N 89°44'12" E

58TH ROAD
PISTA 47+56.48
Y 175701.84
X 593808.74
PC STA 46+44.87
PT STA 48+66.78
DELTA 15°13'37"
D 6°51'42"
L 221.91'
R 835.00'
LCH 221.26'
LCB N 83°26'26" E

I-94
PISTA 744+39.94
Y 173708.68
X 594056.69
PC STA 739+64.64
PT STA 749+14.88
DELTA 3°53'20"
D 0°24'33"
L 950.25'
R 14000.00'
LCH 950.06'
LCB N 2°02'07" W

STA 4760+46.74 E FR = STA 39+21.14 58TH ROAD
PC 4760+61.94

STA 755+53.87 I-94 = STA 134+21.89 STH 11

STA 134+86.24 STH 11

STA 764+28.24 I-94 ℄ = STA 50+00.00 58TH ROAD

STA 764+27.21 I-94 ℄

STA 50+64.34 58TH ROAD

STA 2737+86.72

STA 737+73.17

Witness Corner
A Cast Iron Monument
w/ A Brass Cap
Y 173044.10
X 593877.43

True Corner
No Field Monument
Y 173044.02
X 594120.76
Coordinates Calculated from SEWRPC Dossier Sheets

A Concrete Monument
w/ An Aluminum Cap
Y 175696.15
X 594117.87

A Cast Iron Monument
w/ A Brass Cap
Y 175078.12
X 591478.72

NOTE: THE WITNESS CORNER IS NOT ON THE EAST & WEST 1/4LINE

SCALE, FEET
0 100 200

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENTOF TRANSPORTATION.

DATE: 9-6-2011 — O.E. Andersen — Name, Title

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 9-6-2011 — Paul Krause — Name

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1030-24-20-4.05
AMENDMENT NO: 1

DOCUMENT # 2294370
RACINE COUNTY REGISTER OF DEEDS
September 14, 2011 12:00 PM
TYSON FEITES
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: $30.00
Pages: 1
Vol 1 Pg 201

FILE NAME : J:\projects\d2_r_10302494\20\040405A1_rp.dgn PLOT DATE : 02-SEP-2011 09:37 PLOT BY : dotphk PLOT NAME : PLOT SCALE : 100.000000:1.000000

CONST. 1030-24-70 STH 11 R/W 1030-24-20 4.05A1

TRANSPORTATION PROJECT PLAT NO: 1030-24-20 - 4.06
AMENDMENT NO: 1

ADDS PARCELS 123 & 135 AND AMENDS PARCELS 8 & 100 OF TPP 1030-24-20-4.06, RECORDED AS DOCUMENT 2240911.

THAT PART OF THE NW1/4 OF THE NE1/4, THE SW1/4 OF THE NE1/4, THE NE1/4 OF THE NW1/4, AND THE SE1/4 OF THE NW1/4, SECTION 25, TOWN 3 NORTH, RANGE 21 EAST, TOWN OF YORKVILLE, RACINE COUNTY, WISCONSIN.

RELOCATION ORDER IH-94/STH 11 RACINE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, RACINE COUNTY ZONE, NAD83 (97) ADJUSTMENT AND ARE REFERENCED TO GPS HARN POINTS YORKVILLE EAST, RAYMOND SOUTH, AND PARIS EAST. ALL DISTANCES ARE GROUND LENGTH.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT, BY SE REGION DOT SURVEY.

FOR THE LATEST ACCESS / DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

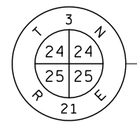
FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF DOCUMENT 2237987, OF TRANSPORTATION PROJECT PLATS IN THE RACINE COUNTY REGISTER OF DEEDS.

SCHEDULE OF LANDS & INTERESTS REQUIRED		OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.					
			R/W REQUIRED ACRES			T.L.E.	P.L.E.
PARCEL NUMBER	OWNER	INTEREST REQUIRED	NEW	EXISTING	TOTAL	TEMP. ACRES	PERM. ACRES
8	SOO LINE RAILROAD COMPANY	HE	0.226	0.000	0.226	0.000	0.000
23	MARIA C. VARGAS	Fee	0.989	0.000	0.989	0.000	0.000
26	ASHLEY YORKVILLE, LLC	Fee AR TLE	0.070	0.000	0.070	0.204	0.000
27	WAYNE & MARDELL FULLER LIVING TRUST	AR TLE	0.000	0.000	0.000	0.153	0.000
28	CLARENCE R. & VERA A. BAER	Fee TLE	0.042	0.140	0.182	0.023	0.000
29	VERONICA E. HORNBOSTEL	Fee	0.017	0.110	0.127	0.000	0.000
35	LEE BROTHERS LLP	Fee	0.035	0.000	0.035	0.000	0.000
123	MARIA C. VARGAS	TLE	0.000	0.000	0.000	0.087	0.000
135	LEE BROTHERS LLP	TLE	0.000	0.000	0.000	0.058	0.000
100	WE ENERGIES ELECTRIC	ROR	-----	-----	-----	-----	-----
103	AT&T WISCONSIN	ROR	-----	-----	-----	-----	-----

(100) V 1559 P 21 DOC 1071735 PCL 27

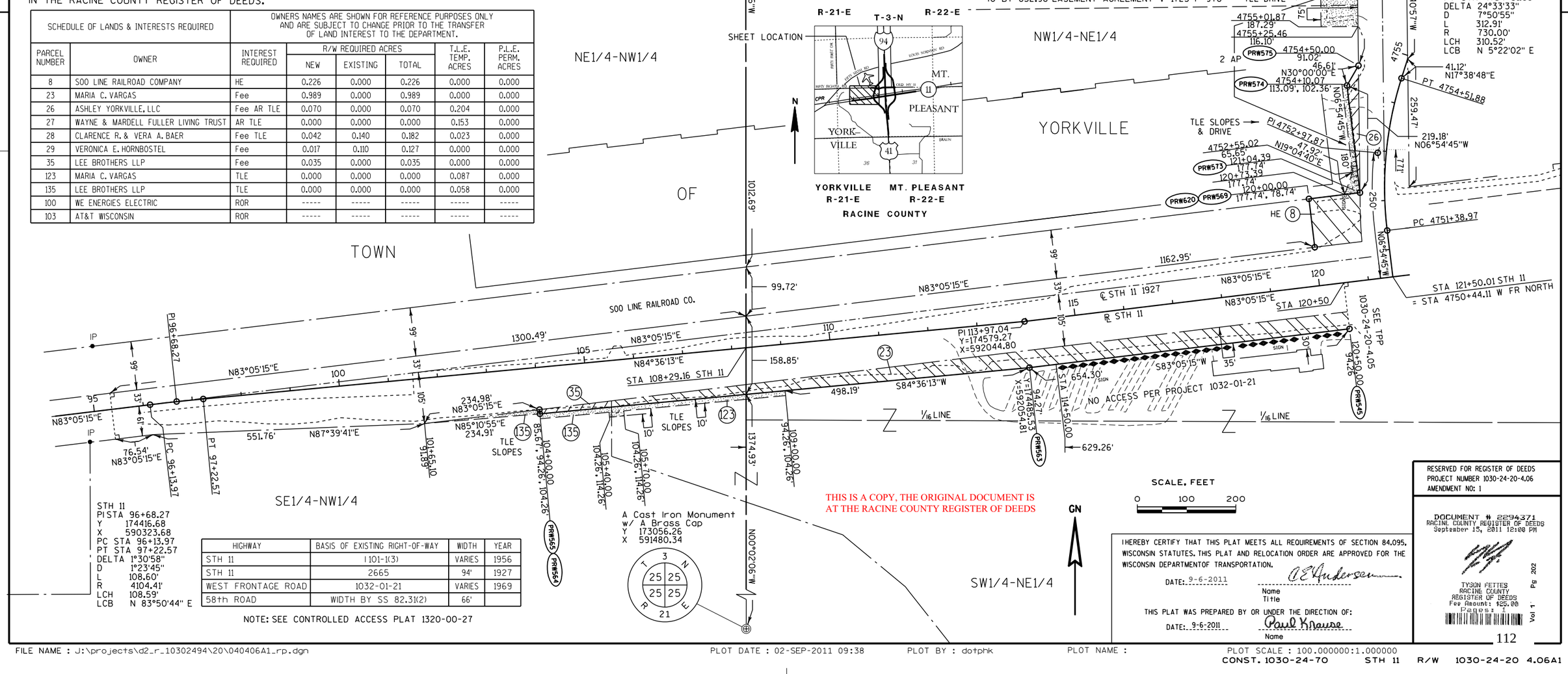
(103) V 483 P 17 DOC. 542064 PCL. 27

A Cast Iron Monument w/ A Brass Cap
Y 175702.44
X 591478.72



NE1/4-NW1/4

NW1/4-NE1/4



HIGHWAY	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
STH 11	1101-1(3)	VARIES	1956
STH 11	2665	94'	1927
WEST FRONTAGE ROAD	1032-01-21	VARIES	1969
58th ROAD	WIDTH BY SS 82.31(2)	66'	

NOTE: SEE CONTROLLED ACCESS PLAT 1320-00-27

THIS IS A COPY, THE ORIGINAL DOCUMENT IS AT THE RACINE COUNTY REGISTER OF DEEDS

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENTOF TRANSPORTATION.

DATE: 9-6-2011 — Name — Title

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 9-6-2011 — Paul Krause — Name

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1030-24-20-4.06
AMENDMENT NO: 1

DOCUMENT # 2294371
RACINE COUNTY REGISTER OF DEEDS
September 15, 2011 12:00 PM
TYSON FETTES
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: $25.00
Pages: 1
Vol 1 Pg 202

FILE NAME : J:\projects\d2_r_10302494\20\040406A1_rp.dgn PLOT DATE : 02-SEP-2011 09:38 PLOT BY : dotphk PLOT NAME : PLOT SCALE : 100.000000:1.000000
CONST. 1030-24-70 STH 11 R/W 1030-24-20 4.06A1

TRANSPORTATION PROJECT PLAT NO: 1030-24-20 - 4.07 AMENDMENT NO: 1

ADDS PARCEL 134 OF TPP 1030-24-20-4.07, RECORDED AS DOCUMENT 2240912.

THAT PART OF PARCELS 1, 2, AND 3 OF CSM 1149, LOCATED IN AND INCLUDING THAT PART OF THE SE1/4 OF THE SE1/4, AND THE NE1/4 OF THE SE1/4, SECTION 24, TOWN 3 NORTH, RANGE 21 EAST, TOWN OF YORKVILLE, RACINE COUNTY, WISCONSIN.

RELOCATION ORDER IH-94/STH 11 RACINE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF DOCUMENT 2237987, OF TRANSPORTATION PROJECT PLATS IN THE RACINE COUNTY REGISTER OF DEEDS.

SCHEDULE OF LANDS & INTERESTS REQUIRED		OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.					
PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED ACRES			T.L.E. TEMP. ACRES	P.L.E. PERM. ACRES
			NEW	EXISTING	TOTAL		
30	KEVIN R. HAIGH	Fee AR TLE	0.121	0.157	0.278	0.030	0.000
31	MIKE BENBEN INC.	Fee AR TLE	3.853	0.367	4.220	0.143	0.000
32	SYLVANIA AIRPORT, LLC	AR TLE	0.000	0.000	0.000	0.044	0.000
33	ROBERT B. MCKAY	AR TLE	0.000	0.000	0.000	0.064	0.000
34	D'ACQUISTO - REV. LIVING TRUST	AR TLE	0.000	0.000	0.000	0.035	0.000
134	D'ACQUISTO - REV. LIVING TRUST	Fee	0.020	0.102	0.122	0.000	0.000
100	WE ENERGIES ELECTRIC	ROR	-----	-----	-----	-----	-----

HIGHWAY	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
I-94	I 101-1(3)	VARIES	1956
I-94	2382	VARIES	1935
58TH ROAD	I 101-1(3)	130'	1956
58TH ROAD	WIDTH BY SS 82.31(2)	66'	
56TH ROAD	RACINE & BURLINGTON TERRITORIAL ROAD	66'	1846

NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, RACINE COUNTY ZONE, NAD83 (97) ADJUSTMENT AND ARE REFERENCED TO GPS HARN POINTS YORKVILLE EAST, RAYMOND SOUTH, AND PARIS EAST. ALL DISTANCES ARE GROUND LENGTH.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT, BY SE REGION DOT SURVEY.

FOR THE LATEST ACCESS / DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

SCALE, FEET
0 100 200

SEE TPP 1030-24-20-4.04

SEE TPP 1030-24-20-4.05

SEE TPP 1030-24-20-4.06

SEE TPP 1033-02-21-4.01

SHEET LOCATION

THIS IS A COPY, THE ORIGINAL DOCUMENT IS AT THE RACINE COUNTY REGISTER OF DEEDS.

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENTOF TRANSPORTATION.

DATE: 6-9-2011 — Name / Title

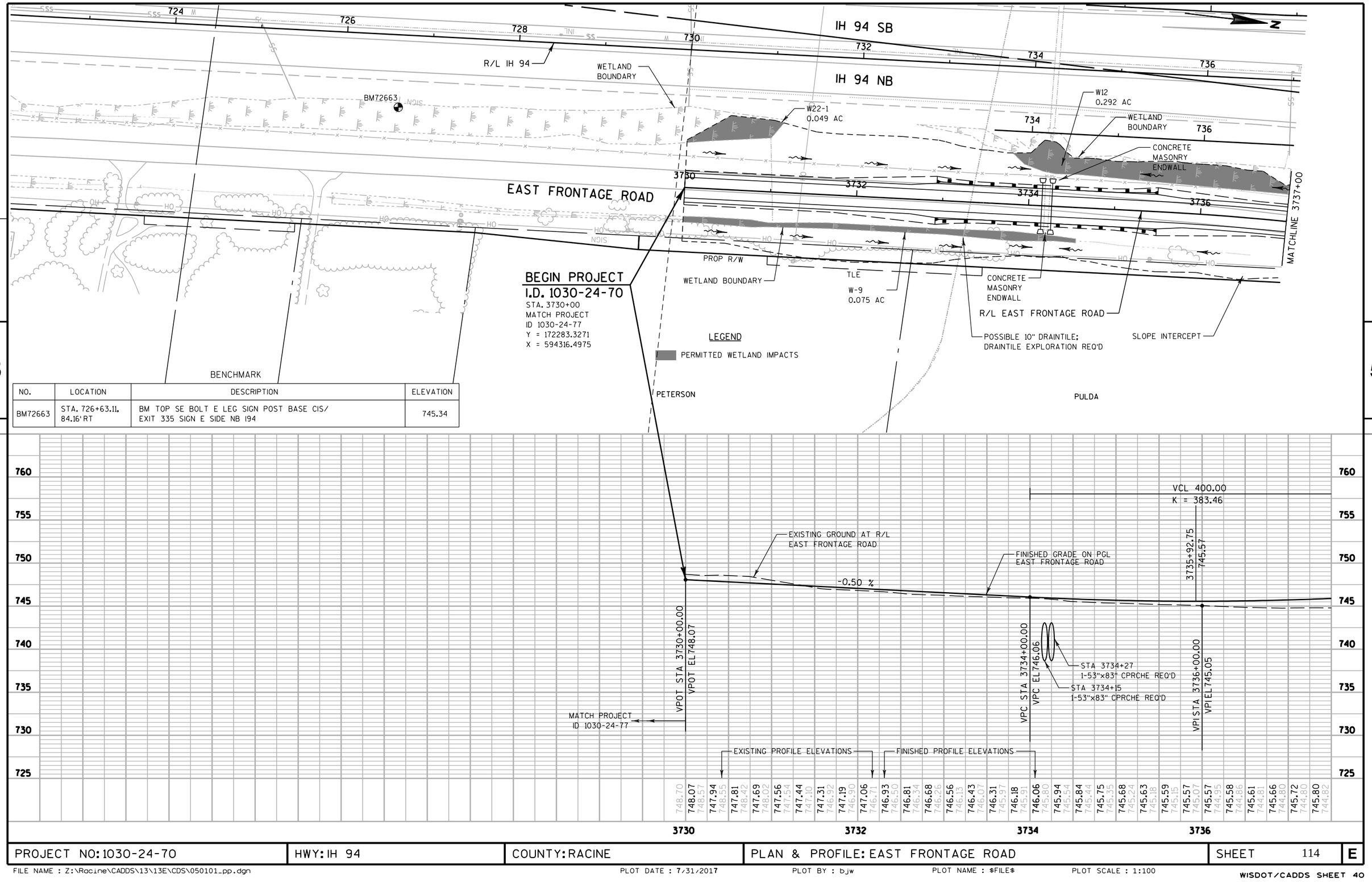
THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 6-7-2011 — Name PAUL KRAUSE

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1030-24-20-4.07
AMENDMENT NO: 1

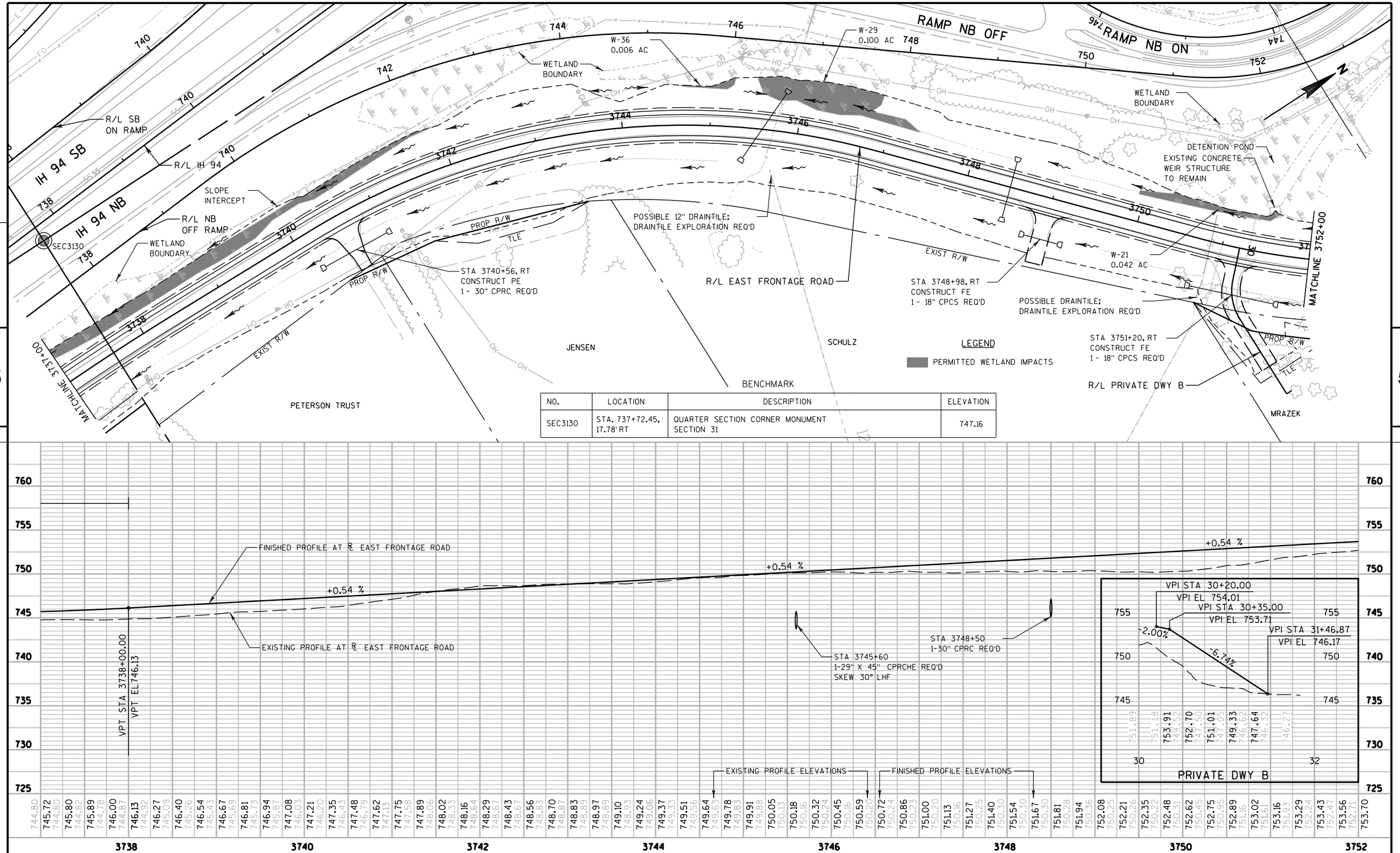
DOCUMENT # 2288421
RACINE COUNTY REGISTER OF DEEDS
July 07, 2011 7:55 AM
TRACEY L FEICHTNER
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: $25.00
Pages: 1
Vol 1 Pg 186

FILE NAME : J:\projects\d2_r_10302494\20\040407A1_rp.dgn PLOT DATE : 06-JUN-2011 13:38 PLOT BY : dotphk PLOT NAME : PLOT SCALE : 100.000000:1.000000
CONST. 1030-24-70 STH 11 R/W 1030-24-20 4.07A1



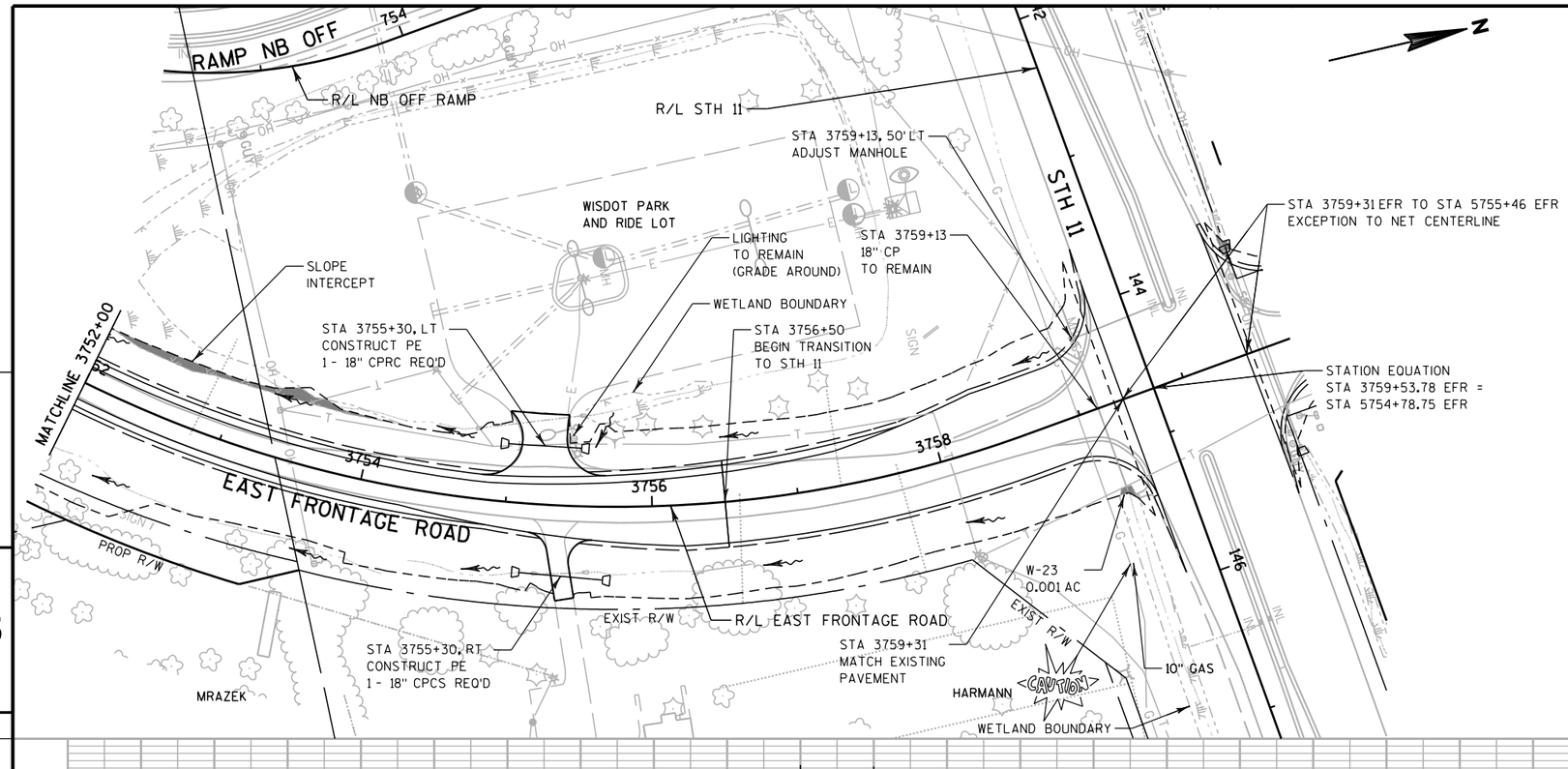
NO.	LOCATION	DESCRIPTION	ELEVATION
BM72663	STA. 726+63.11, 84.16' RT	BM TOP SE BOLT E LEG SIGN POST BASE CIS/ EXIT 335 SIGN E SIDE NB 194	745.34

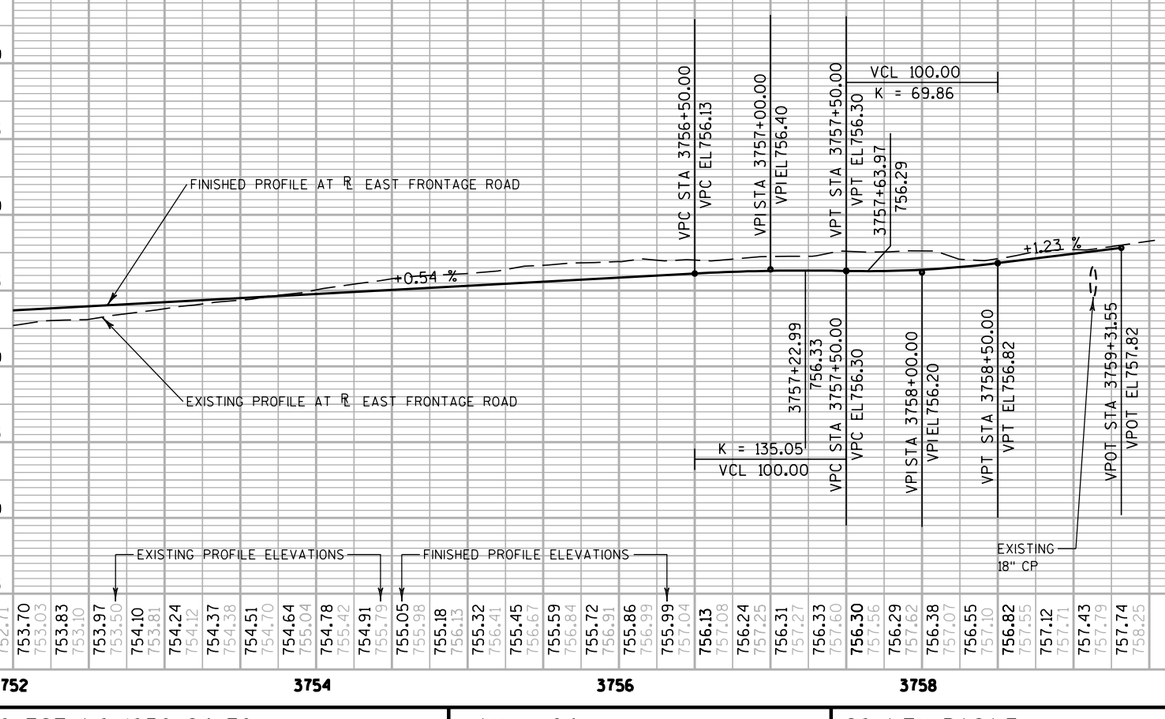
PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	PLAN & PROFILE: EAST FRONTAGE ROAD	SHEET 114	E



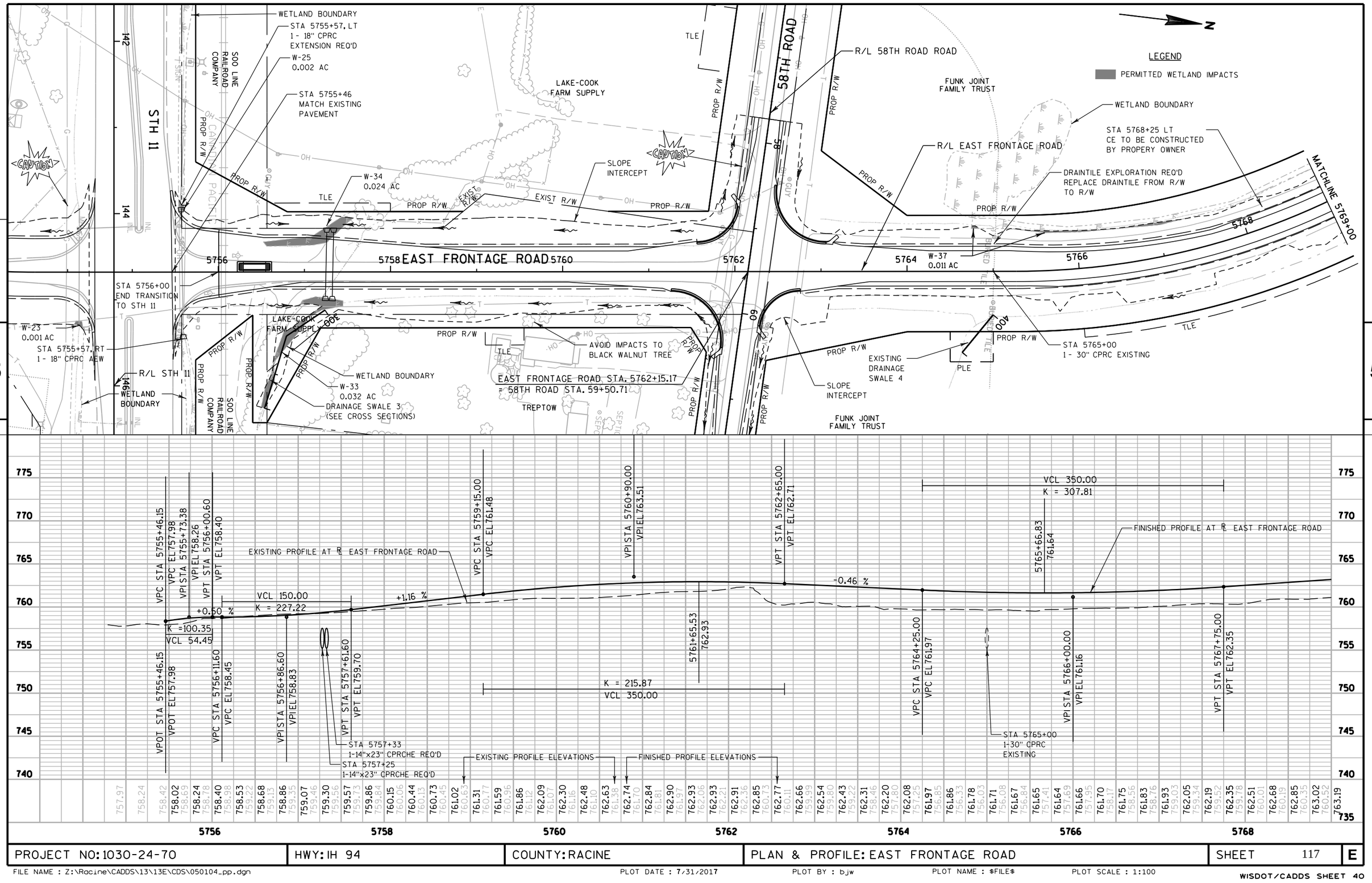
NO.	LOCATION	DESCRIPTION	ELEVATION
SEC3130	STA. 737+72.45, 17.78' RT	QUARTER SECTION CORNER MONUMENT SECTION 31	747.16

PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	PLAN & PROFILE: EAST FRONTAGE ROAD	SHEET 115	E





PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	PLAN & PROFILE: EAST FRONTAGE ROAD	SHEET 116	E



PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	PLAN & PROFILE: EAST FRONTAGE ROAD	SHEET 117	E

FUNK JOINT
FAMILY TRUST

DRAINTILE EXPLORATION REQ'D
REPLACE DRAINTILE FROM R/W
TO R/W

SLOPE
INTERCEPT

WETLAND
BOUNDARY

W-37
0.011 AC

PROP R/W

R/L PRIVATE
DRIVEWAY "A"

PRIVATE

W-3-5
0.001 AC

EXIST R/W

WETLAND
BOUNDARY

IH 94 NB

IH 94 SB

782

CAUTION

W-20
0.035 AC

CAUTION

MATCHLINE 5769+00

EAST FRONTAGE ROAD

5770

5772

5774

5776

5778

5780

5782

MATCHLINE 5783+80

PROP R/W

TLE

PROP R/W

R/L EAST FRONTAGE ROAD

EAST FRONTAGE ROAD STA. 5776+50.00
= ACCESS ROAD A STA. 20+00.00

POSSIBLE DRAINTILE;
DRAINTILE EXPLORATION REQ'D

STA 5779+50, RT
CONSTRUCT PE

PROP R/W

WETLAND
BOUNDARY

POSSIBLE DRAINTILE;
DRAINTILE EXPLORATION REQ'D

FUNK JOINT
FAMILY TRUST

LEONARD

RINKE

LEGEND

PERMITTED WETLAND IMPACTS

5

5

785
780
775
770
765
760
755
750

FINISHED PROFILE AT ℄ EAST FRONTAGE ROAD

EXISTING PROFILE AT ℄ EAST FRONTAGE ROAD

+0.68 %

+0.68 %

+0.68 %

VPC STA 5781+00.00
VPC EL 771.31

VPI STA 5784+00.00
VPI EL 773.33

K = 478.97
VCL 600.00

STA 5782+28
1-29" X 45" CPRCHE REQ'D
SKEW 16.17° RHF

EXISTING PROFILE ELEVATIONS

FINISHED PROFILE ELEVATIONS

763.19 763.36 763.53 763.70 763.87 764.04 764.20 764.37 764.54 764.71 764.88 765.05 765.22 765.39 765.56 765.73 765.90 766.06 766.23 766.40 766.57 766.74 766.91 767.08 767.25 767.42 767.59 767.76 767.92 768.09 768.26 768.43 768.60 768.77 768.94 769.11 769.28 769.45 769.62 769.78 769.95 770.12 770.29 770.46 770.63 770.80 770.97 771.14 771.31 771.47 771.62 771.75 771.88 771.99 772.09 772.17 772.24 772.30 772.34 772.38 772.40

5770 5772 5774 5776 5778 5780 5782 5784

PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	PLAN & PROFILE: EAST FRONTAGE ROAD	SHEET 118	E

EAST FRONTAGE ROAD STA. 5788+63.34
= LOUIS SORENSON ROAD STA. 51L+31.93

IH 94 SB

IH 94 NB

STA 5784+00
1 - 24" SSPRC REQ'D
SKEW 8° LHF

STA 5787+00
1 - 24" SSPRC REQ'D

SEC3104

EAST FRONTAGE ROAD

WETLAND BOUNDARY

MATCHLINE 5783+80

PROP R/W

PLE

EXIST R/W

R/L EAST FRONTAGE ROAD

SLOPE INTERCEPT

R/L LOUIS SORENSON ROAD

HALL

HRIBAR

LOUIS SORENSON ROAD

PROP R/W

END PROJECT
I.D. 1030-24-70
STA. 5791+00
MATCH PROJECT
ID 1033-02-77

BENCHMARK

NO.	LOCATION	DESCRIPTION	ELEVATION
SEC3104	STA 5790+99.57 57.35' LT	QUARTER SECTION CORNER MONUMENT SECTION 31	764.87

VPI STA 5784+00.00
VPI EL 773.33

VPT STA 5787+00.00
VPT EL 771.61

VPOT STA 5791+00.00
VPOT EL 769.30

FINISHED PROFILE AT ℄ EAST FRONTAGE ROAD

EXISTING PROFILE AT ℄ EAST FRONTAGE ROAD

-0.58 %

5784+23.92
772.40

K = 478.97
VCL 600.00

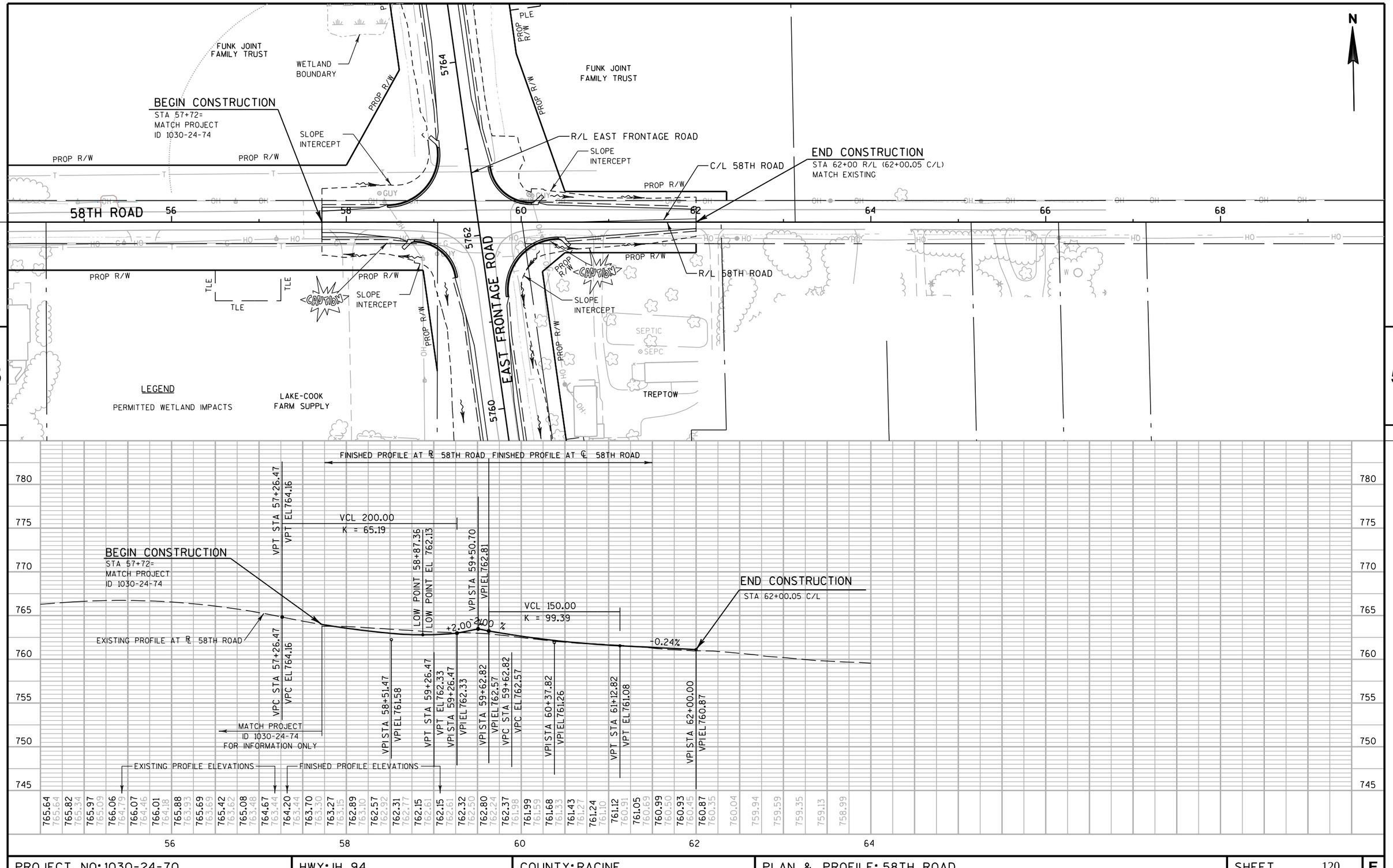
EXISTING PROFILE ELEVATIONS

FINISHED PROFILE ELEVATIONS

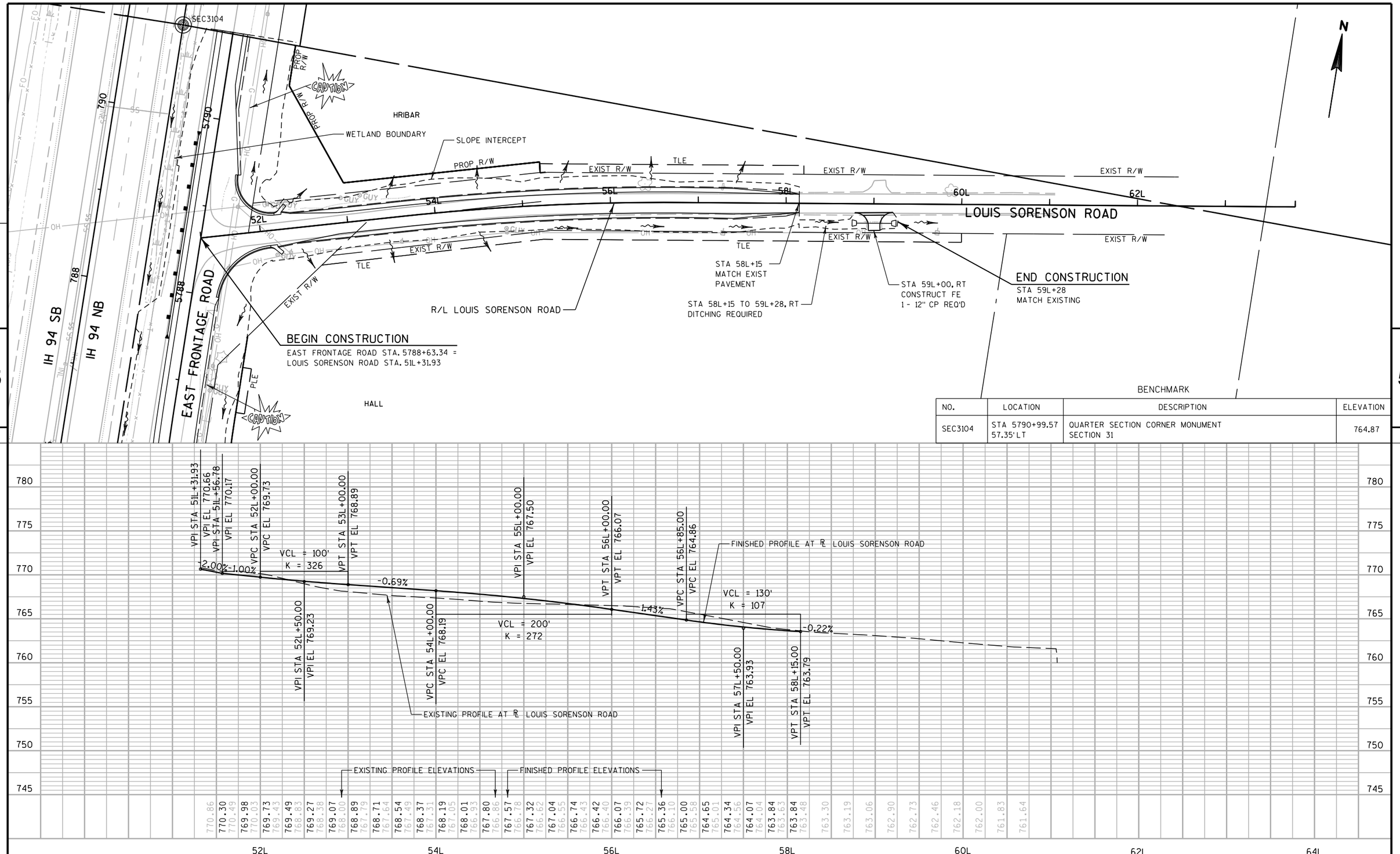
5784	5786	5788	5790
772.40 / 766.69	772.16 / 770.65	771.61 / 771.28	771.03 / 771.16
772.40 / 767.82	772.08 / 770.85	771.46 / 771.21	770.89 / 771.08
772.40 / 768.75	771.98 / 771.05	771.32 / 771.16	770.74 / 770.94
772.39 / 769.55	771.87 / 771.28	771.17 / 771.10	770.60 / 770.69
772.37 / 769.96	771.74 / 771.30	771.03 / 771.16	770.45 / 770.58
772.34 / 770.24	771.61 / 771.28	770.89 / 771.08	770.31 / 770.51
772.29 / 770.45	771.46 / 771.21	770.74 / 770.94	770.16 / 770.53
772.24 / 770.61	771.32 / 771.16	770.60 / 770.69	770.02 / 770.14
	771.17 / 771.10	770.45 / 770.58	769.88 / 770.05
	771.03 / 771.16	770.31 / 770.51	769.73 / 769.93
	770.89 / 771.08	770.16 / 770.53	769.59 / 769.73
	770.74 / 770.94	770.02 / 770.14	769.44 / 769.56
	770.60 / 770.69	769.88 / 770.05	769.30
	770.45 / 770.58	769.73 / 769.93	
	770.31 / 770.51	769.59 / 769.73	
	770.16 / 770.53	769.44 / 769.56	
	770.02 / 770.14	769.30	
	769.88 / 770.05		
	769.73 / 769.93		
	769.59 / 769.73		
	769.44 / 769.56		
	769.30		

790 785 780 775 770 765 760 755

PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	PLAN & PROFILE: EAST FRONTAGE ROAD	SHEET 119	E



PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	PLAN & PROFILE: 58TH ROAD	SHEET 120	E



NO.	LOCATION	DESCRIPTION	ELEVATION
SEC3104	STA 5790+99.57 57.35'LT	QUARTER SECTION CORNER MONUMENT SECTION 31	764.87

PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	PLAN & PROFILE: LOUIS SORENSON ROAD	SHEET 121	E

IH 94 SB

IH 94 NB

PRIVATE DRIVEWAY 'A'

WETLAND BOUNDARY

ENCROACHMENT
CABLE GATE AND POSTS

EXIST R/W

WETLAND BOUNDARY

STA 19+50
1 - 30" CPRC
EXISTING

W-3-5
0.001 AC

CAUTION

CAUTION

BEGIN CONSTRUCTION
STA 15+01.50
MATCH EXISTING GRAVEL

SLOPE
INTERCEPT

PROP R/W

MRAZEK

PROP R/W

R/L PRIVATE DRIVEWAY 'A'

MADRO

W-37
0.011 AC

WETLAND
BOUNDARY

PROP R/W

ENCROACHMENT
GUARDRAIL
(SEE REMOVAL PLANS)

WETLAND
BOUNDARY

R/L EAST FRONTAGE ROAD

WETLAND BOUNDARY

END CONSTRUCTION
EAST FRONTAGE ROAD STA. 5776+50.00 =
ACCESS ROAD A STA. 20+00.00

LEGEND

PERMITTED WETLAND IMPACTS

FINISHED PROFILE AT
℄ ACCESS ROAD 'A'

EXISTING PROFILE AT
℄ ACCESS ROAD 'A'

BEGIN CONSTRUCTION
STA 15+01.50
MATCH EXISTING

VCL 100.00
K = 119.88

-0.35 %

VCL 100.00
K = 67.61

16+98.380
766.03

+1.13 %

VCL 100.00
K = 121.28

+1.96 %

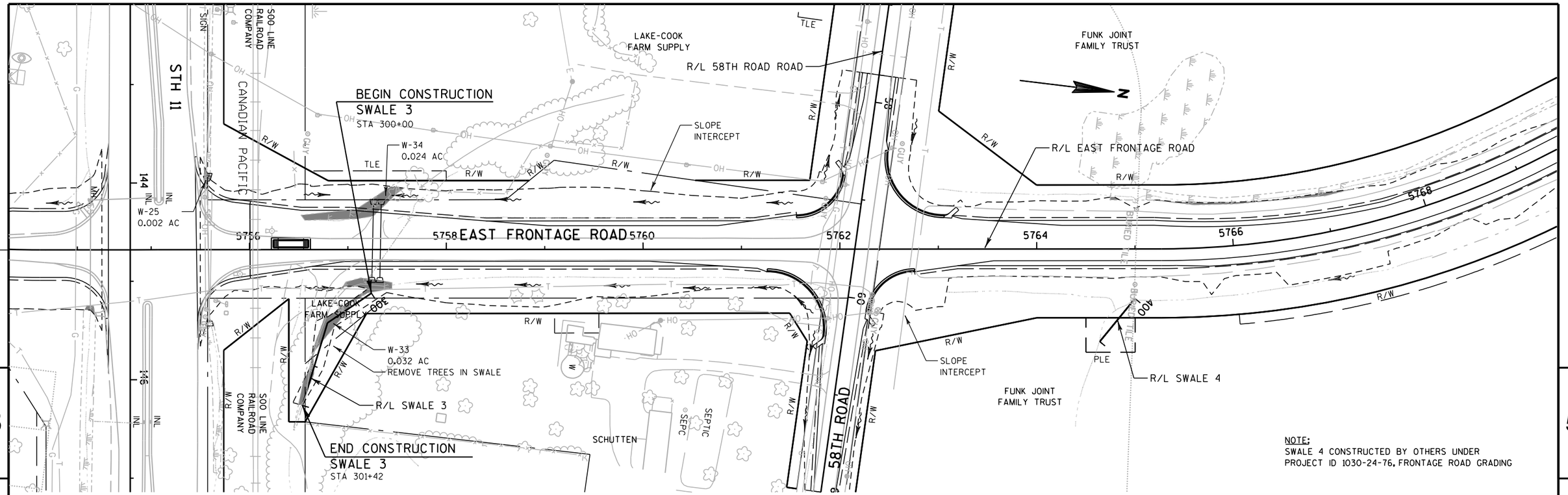
+1.25 %

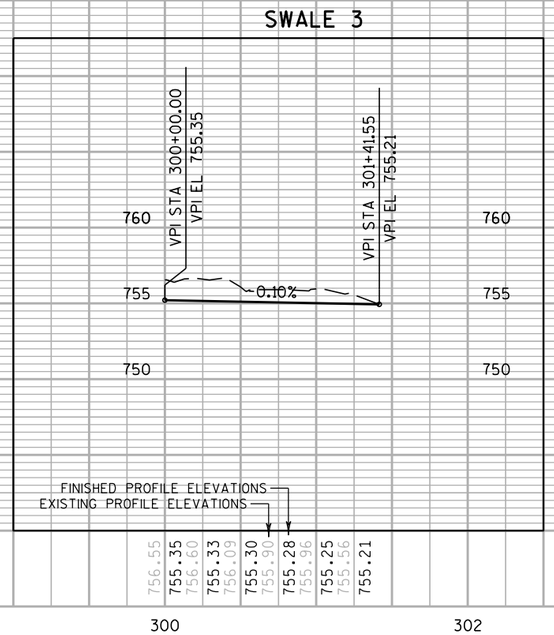
VPI STA 19+70.000
VPI EL 769.46

END CONSTRUCTION
EAST FRONTAGE ROAD STA. 5776+50.00 =
ACCESS ROAD A STA. 20+00.00

VPOT STA 15+01.500	VPOT EL 767.09			
VPC STA 15+01.500	VPC EL 767.09			
VPI STA 15+51.500	VPI EL 766.50			
VPT STA 16+01.500	VPT EL 766.33			
VPC STA 16+75.000	VPC EL 766.07			
VPI STA 17+25.000	VPI EL 765.90			
VPT STA 17+75.000	VPT EL 766.47			
VPC STA 18+25.000	VPC EL 767.03			
VPI STA 18+75.000	VPI EL 767.60			
VPT STA 19+25.000	VPT EL 768.58			
VPOT STA 19+80.000	VPOT EL 769.34			

| EXISTING PROFILE ELEVATIONS | | | |





PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	PLAN & PROFILE: SWALE 3 & SWALE 4	SHEET 123	E

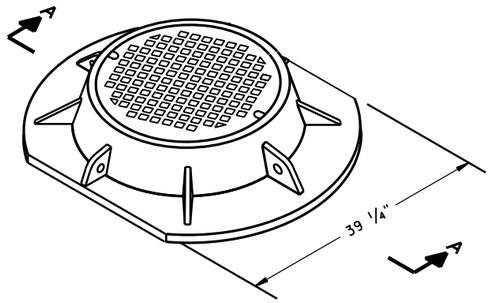
FILE NAME : Z:\Racine\CADDS\13\13E\CDS\050110_pp.dgn PLOT DATE : 7/31/2017 PLOT BY : bjw PLOT NAME : $FILE$ PLOT SCALE : 1:100

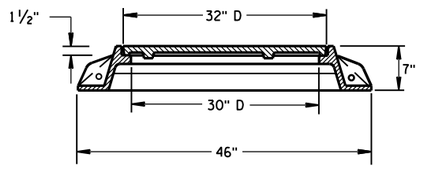
WISDOT/CADDS SHEET 40

Standard Detail Drawing List

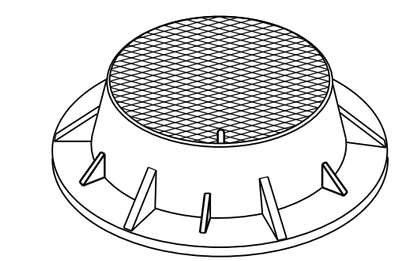
08A05-19D	INLET COVER TYPE BW, MANHOLE COVERS, TYPE K, J, J-S, L & M
08B09-02	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER
08C07-02	INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT
08D01-19	CONCRETE CURB, CONCRETE CURB AND GUTTER AND TIES
08D04-05	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08D15-05A	EDGEDRAIN OUTLET AND OUTFALL MARKERS
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08E14-01	TRACKING PAD
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F02-01	APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
08F06-04	REINFORCED CONCRETE APRON ENDWALL FOR PIPE UNDERDRAIN
08F07-05	STEEL APRON ENDWALLS FOR CULVERT PIPE AND PIPE ARCH SLOPED SIDE FRAINS
08F10-01	CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH
09A01-13A	AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND D AND TEE INTERSECTION BYPASS LANE
11B02-02	CONCRETE MEDIAN NOSE
14B15-09A	STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION & ELEMENTS
14B15-09B	STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION & ELEMENTS
14B15-09C	STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS
14B18-06A	STEEL PLATE BEAM GUARD, CLASS "A" (AT BRIDGES, OBSTACLES AND SIDEROADS/DRIVEWAYS)
14B20-11A	STEEL THRIE BEAM STRUCTURE APPROACH
14B24-08A	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
14B24-08B	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
14B24-08C	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
14B28-03	GUARDRAIL MOW STRIP
14B42-04A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-04B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-04C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-02A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-02B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-02C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
15A02-09	DELINEATOR POST, DELINEATOR REFLECTOR AND DELINEATOR BRACKET WITH REFLECTIVE SHEETING
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15B01-08A	FENCE WOVEN WIRE
15B01-08B	FENCE WOVEN WIRE
15C02-06A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C03-03	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C04-03	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C05-03	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C07-13B	PAVEMENT MARKING WORDS
15C07-13C	PAVEMENT MARKING ARROWS
15C08-17A	LONGITUDINAL MARKING (MAINLINE)
15C08-17B	PAVEMENT MARKING (TURN LANES)
15C08-17C	PAVEMENT MARKING (ISLANDS)
15C12-04	TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
15C12-05	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C18-03	MEDIAN ISLAND MARKING
15C33-02	STOP LINE AND CROSSWALK PAVEMENT MARKING
15D28-03	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D29-04	TRAFFIC CONTROL, VEHICLE ENTRANCE/EXIT OR HAUL ROAD
15D38-01A	TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS
15D38-01B	ATTACHMENT OF SIGNS TO POSTS

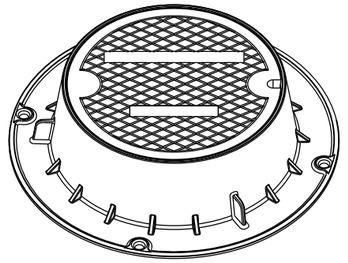
6

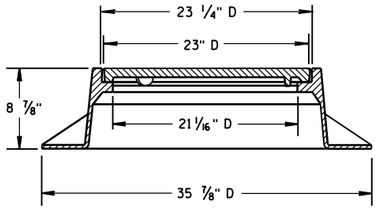


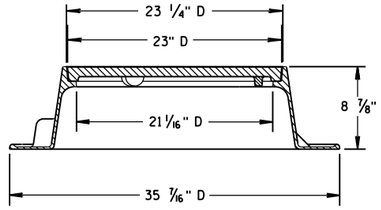


SECTION A-A
TYPE "K"









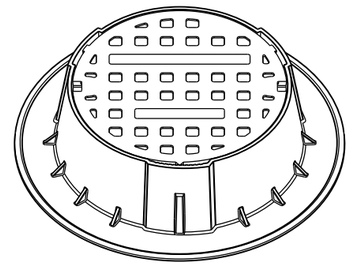
TYPE "J"
NOTE: EITHER CASTING IS ACCEPTABLE

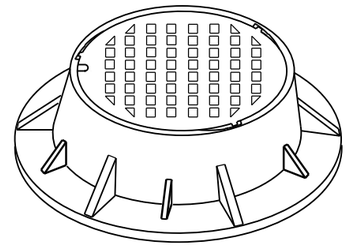
GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

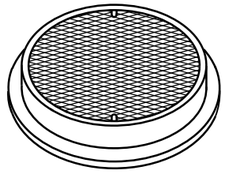
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR MANHOLE COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

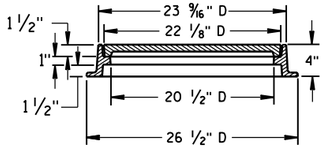
ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.



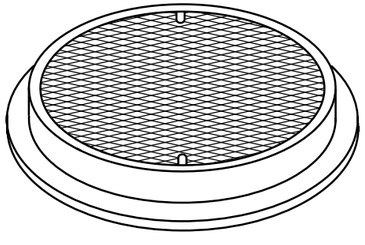


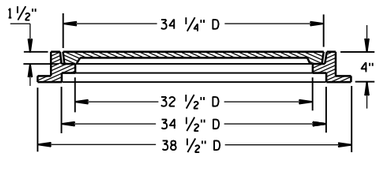
TYPE "J" SPECIAL
TYPE "B" NON-ROCKING SELF-SEAL LID
(NOTED AS TYPE J-S ON THE DRAINAGE TABLE)
NOTE: EITHER CASTING IS ACCEPTABLE



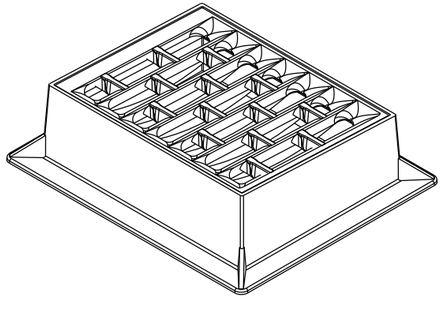


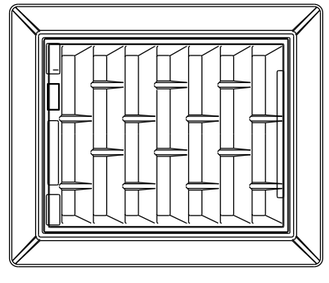
TYPE "L"

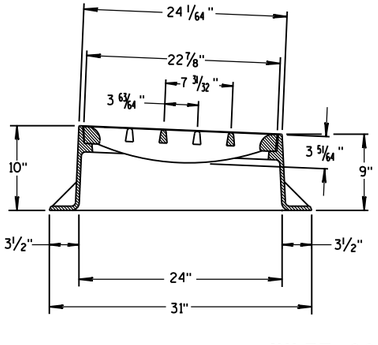


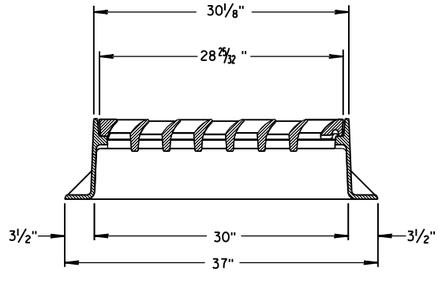


TYPE "M"









INLET COVER TYPE "BW"

INLET COVER TYPE BW
MANHOLE COVERS, TYPE K, J, J-S, L & M

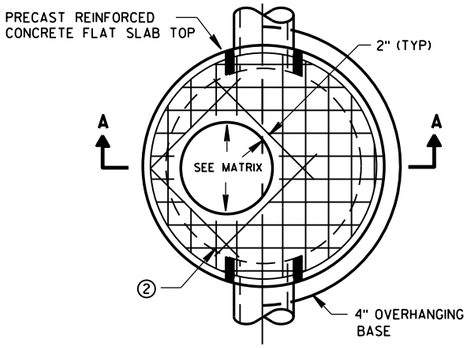
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013
DATE
FHWA

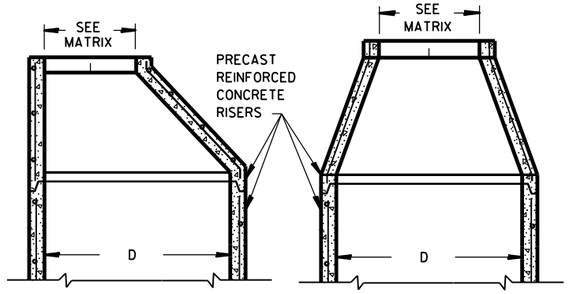
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

6

S.D.D. 8 A 5-19d

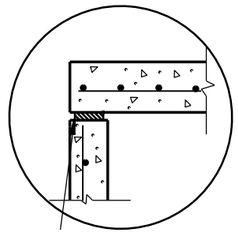


PLAN VIEW CIRCULAR OPENING

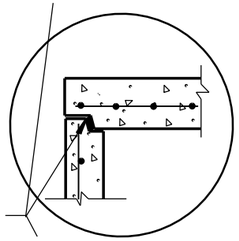


OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

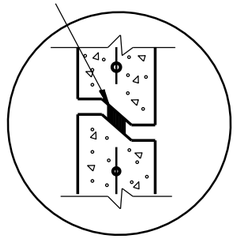


TOP WITH PLAIN END JOINT



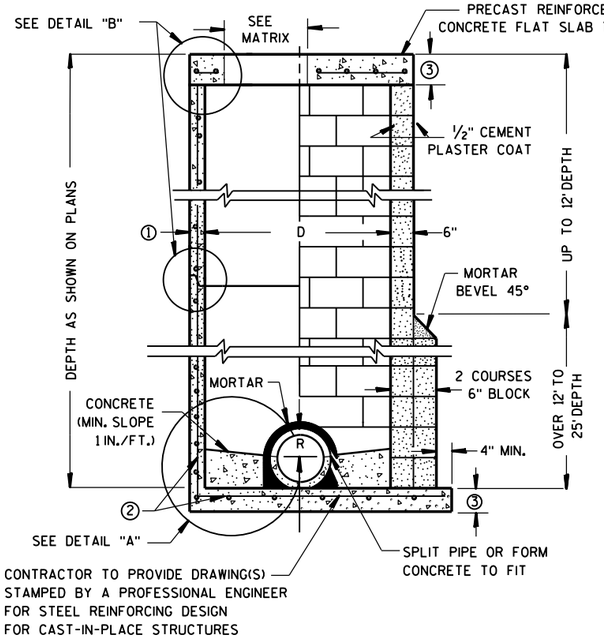
JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C990 (TYP)

TOP WITH TONGUE AND GROOVE JOINT



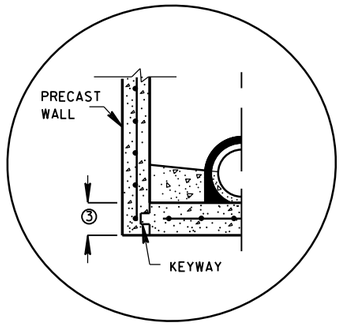
RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"

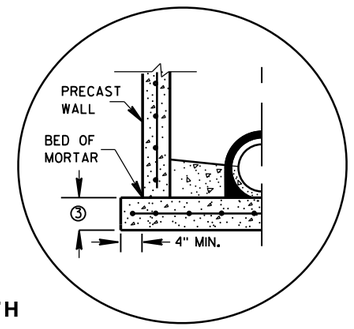


PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

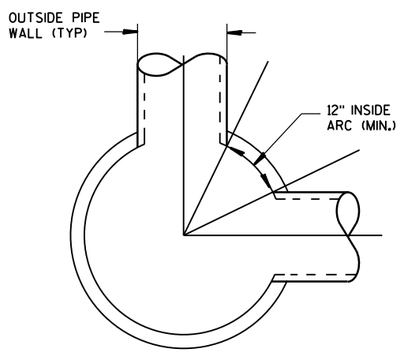


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "C"

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST MANHOLE UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES, AND CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 5 FEET OR LESS IN DEPTH, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

STEPS MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF ½" AND MEET THE REQUIREMENTS OF ASTM A615.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

CONCRETE BLOCK WILL NOT BE PERMITED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

ALL PRECAST MANHOLE UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT, 5 INCHES FOR 4-FT, 6 INCHES FOR 5-FT, 7 INCHES FOR 6-FT, 8 INCHES FOR 7-FT AND 9 INCHES FOR 8-FT DIAMETER PRECAST MANHOLES.

② FOR PRECAST MANHOLES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

③ PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER OF 48" AND LESS SHALL HAVE A MINIMUM THICKNESS OF 6". PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER LARGER THAN 48" SHALL HAVE A MINIMUM THICKNESS OF 8".

MANHOLE COVER OPENING MATRIX

MANHOLE COVER TYPE	C	ALL J'S	K	L	M
OPENING SIZE (FT)					
2 DIA.	X	X		X	
3 DIA.			X		X

PIPE MATRIX

MANHOLE SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18
5-FT	36	24
6-FT	42	36
7-FT	48	36
8-FT	60	42

MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

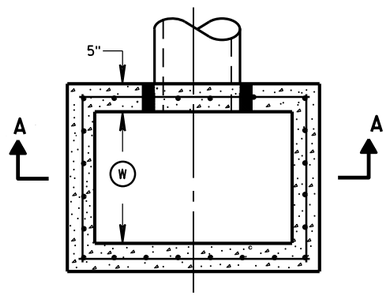
APPROVED

Sept., 2016
DATE

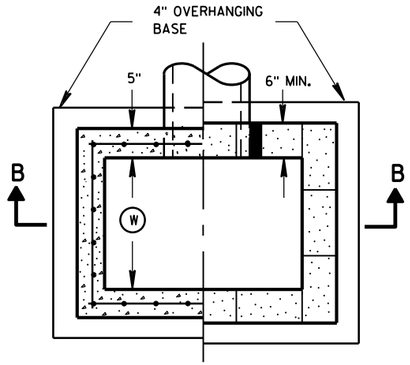
/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT
UNIT SUPERV

FHWA

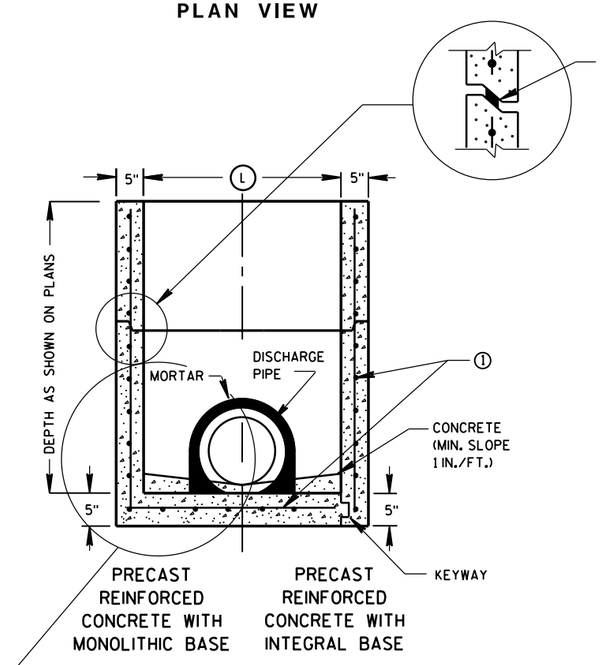
6
S.D.D. 8 B 9-2



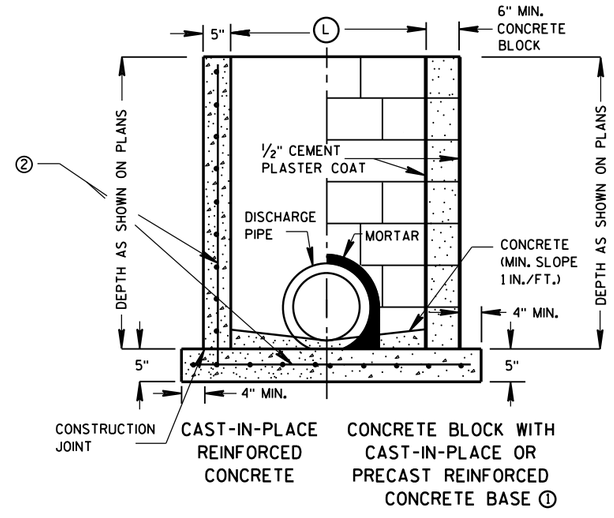
PLAN VIEW



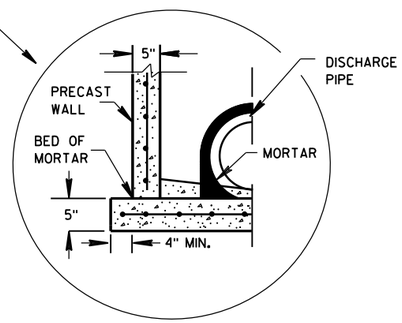
PLAN VIEW



SECTION A-A



SECTION B-B



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATES THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANGING BASES ARE REQUIRED FOR CAST-IN-PLACE REINFORCED CONCRETE AND CONCRETE BLOCK INSTALLATIONS.
4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED.
OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3 INCH CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

① FOR PRECAST INLETS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

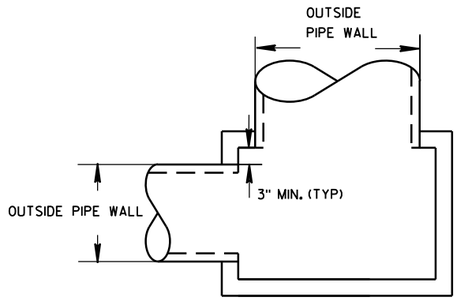
② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

INLET COVER MATRIX

INLET SIZE		INLET COVER TYPE	ALL A'S	ALL B'S	BW	F	ALL H'S	S	T	V	WM
	WIDTH (W) (FT)	LENGTH (L) (FT)									
2X2-FT	2	2	X	X				X		X	
2X2.5-FT	2	2.5			X			X	X	X	X
2X3-FT	2	3					X				
2.5X3-FT	2.5	3				X					

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER	
	WIDTH (IN)	LENGTH (IN)
2X2-FT	12	12
2X2.5-FT	12	18
2X3-FT	12	24
2.5X3-FT	18	24



DETAIL "A"

INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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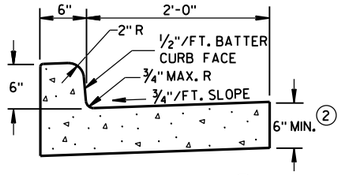
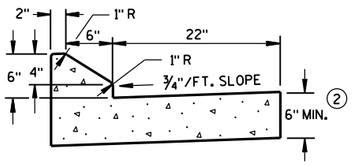
/S/ Rodney Taylor
ROADWAY STANDARDS D IT
UNIT SUPERVIS
FHWA

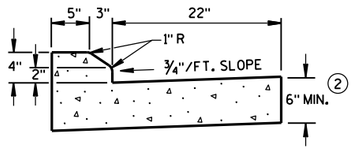
INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT



TYPES A & D ①

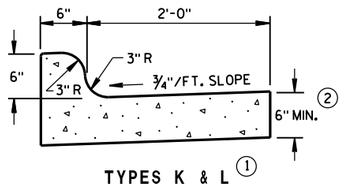


6" SLOPED CURB TYPES G & J ①

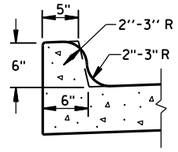


4" SLOPED CURB TYPES G & J ①

CONCRETE CURB & GUTTER 30"

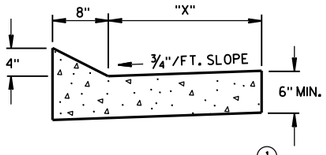


TYPES K & L ①



OPTIONAL CURB SHAPE FOR TYPES K & L ①

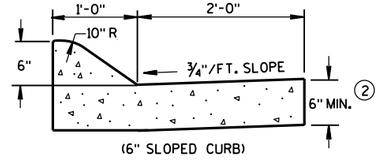
CONCRETE CURB & GUTTER 30"



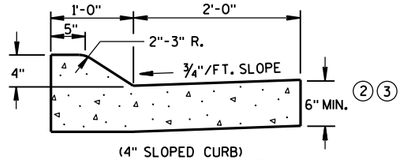
TYPES TBT & TBTT ①

CONCRETE CURB & GUTTER

TBT & TBTT	"X"
30"	22"
36"	28"

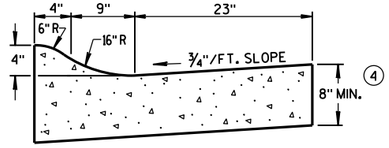


(6" SLOPED CURB)



(4" SLOPED CURB)

TYPES A & D ①



4" SLOPED CURB TYPES R & T ①⑤

CONCRETE CURB & GUTTER 36"

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

INTEGRAL CURB & GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB & GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE. A LONGITUDINAL CONSTRUCTION JOINT IS NOT REQUIRED WITH INTEGRAL CURB AND GUTTER.

WHERE THE TRANSVERSE JOINTS IN THE PAVEMENT ARE REQUIRED TO BE SEALED, THE JOINTS IN THE INTEGRAL CURB AND GUTTER SHALL BE SEALED TO THE FACE OF CURB WITH THE SAME TYPE OF SEALANT. THE COST OF FURNISHING AND INSTALLING THIS SEALANT SHALL BE INCIDENTAL TO THE ITEM CONCRETE CURB AND GUTTER.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2'-0" BEHIND THE BACK OF CURBS.

① TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K, R AND TBTT.

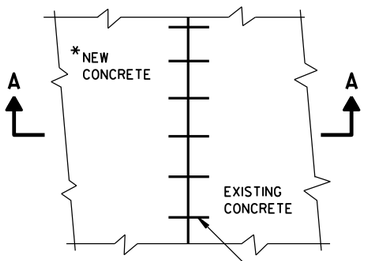
② THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

③ USE 8" MINIMUM GUTTER THICKNESS WHEN USED WITH AN ADJACENT CONCRETE TRUCK APRON PLACED BEHIND BACK OF CURB.

④ THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.

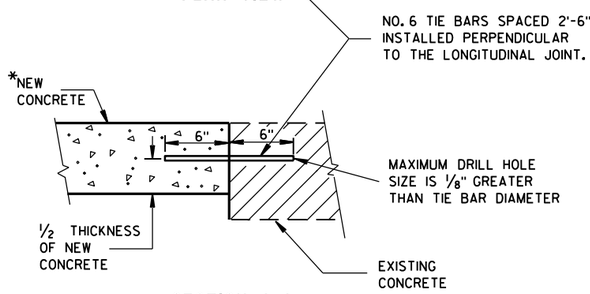
⑤ THE FACE OF CURB IS 6" FROM THE BACK OF CURB.

⑥ WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.



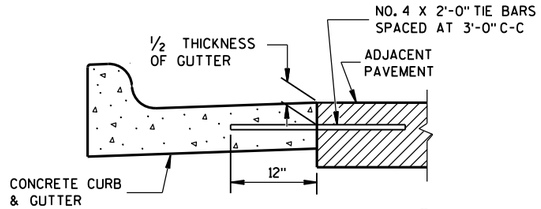
PLAN VIEW

*NEW CURB & GUTTER, SURFACE DRAINS, CONCRETE PAVEMENT OR OTHER NEW CONCRETE.

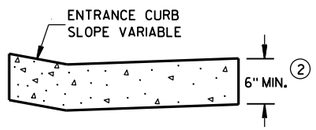


SECTION A-A

TIE BARS DRILLED INTO EXISTING PAVEMENT

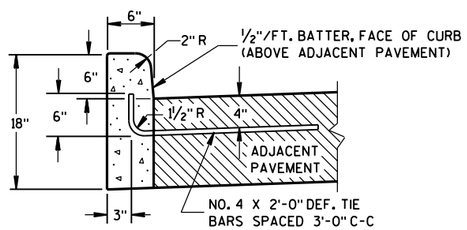


TYPICAL TIE BAR LOCATION ①

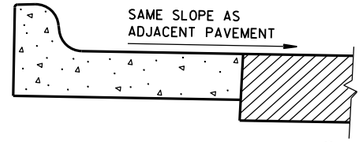


DRIVEWAY ENTRANCE CURB

(WHEN DIRECTED BY THE ENGINEER)

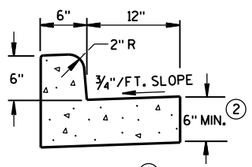


① TYPES A & D



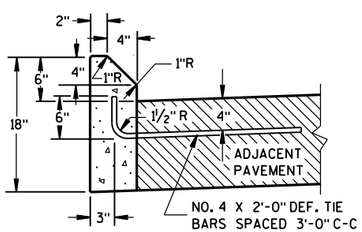
⑥ REVERSE SLOPE GUTTER

(TYPICAL FOR ALL CURB & GUTTER TYPES)



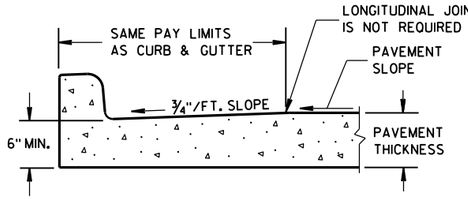
① TYPES A & D

CONCRETE CURB & GUTTER 18"

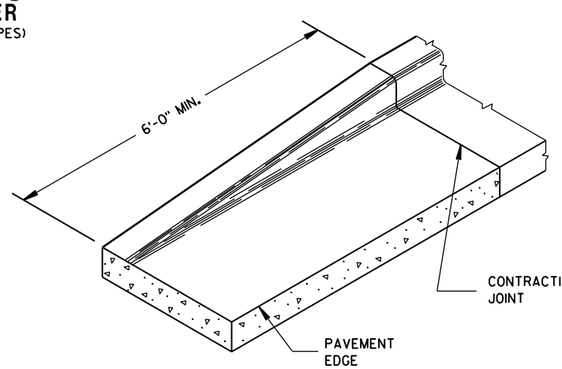


① TYPES G & J

CONCRETE CURB



PARTIAL SECTION OF PAVEMENT WITH INTEGRAL CURB & GUTTER



END SECTION CURB & GUTTER

CONCRETE CURB, CONCRETE CURB & GUTTER AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2016 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

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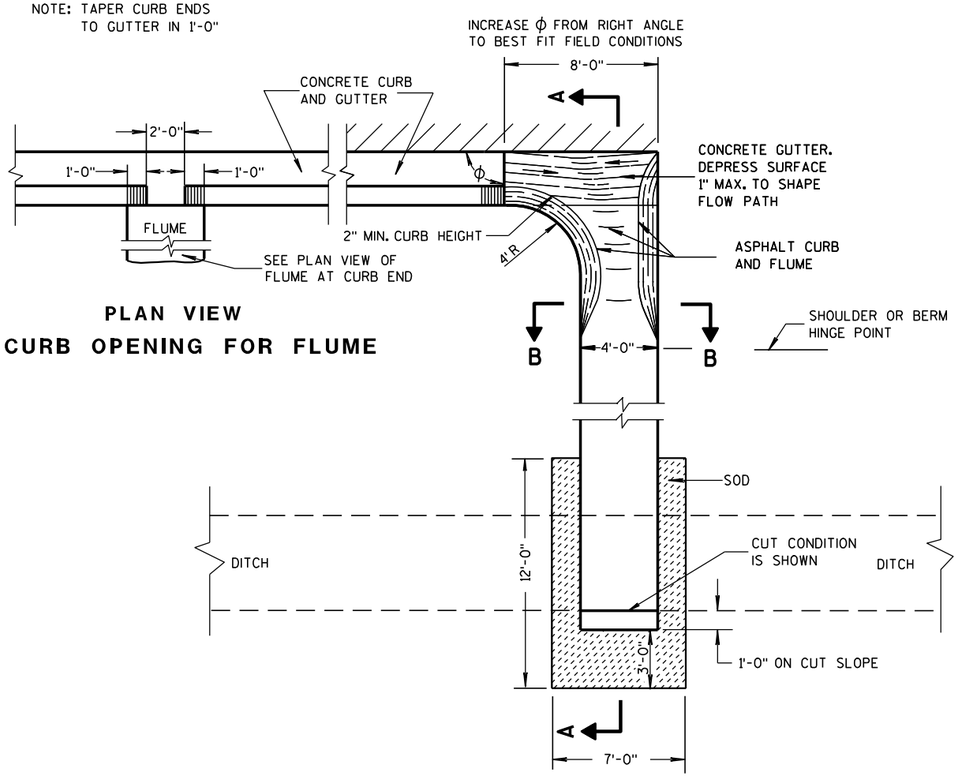
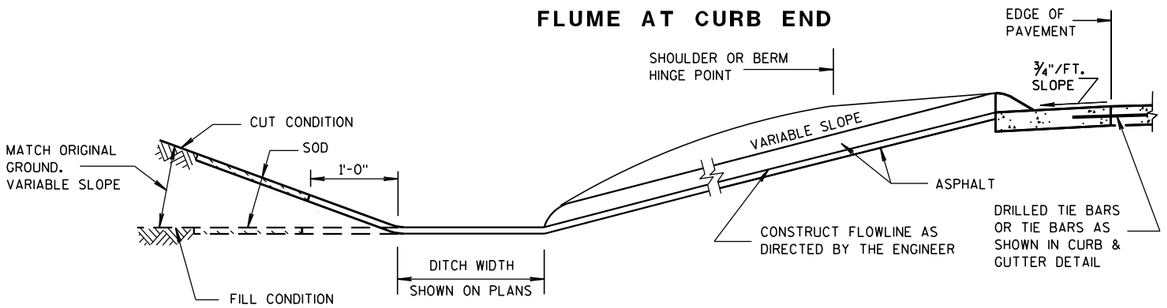
S.D.D. 8 D 1-19

ASPHALTIC FLUME

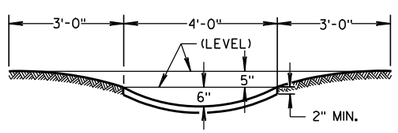


PLAN VIEW
CURB OPENING FOR FLUME

PLAN VIEW
FLUME AT CURB END



SECTION A-A



SECTION B-B

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

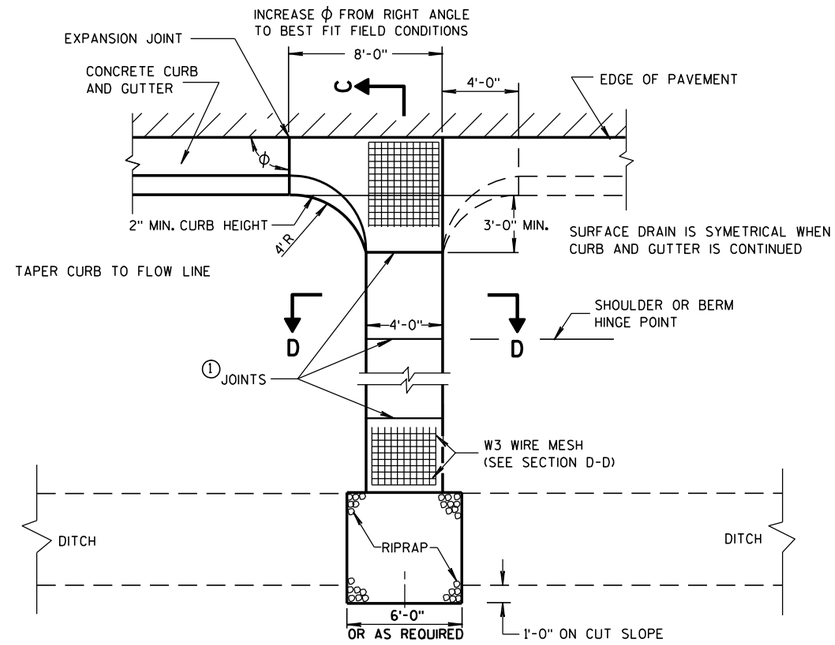
WELDED STEEL WIRE FABRIC SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

① JOINTS SHALL BE $\frac{1}{8}$ TO $\frac{1}{4}$ INCH WIDE BY $1\frac{1}{2}$ INCHES DEEP AND SPACED AT UNIFORM INTERVALS OF APPROXIMATELY 4 FEET.

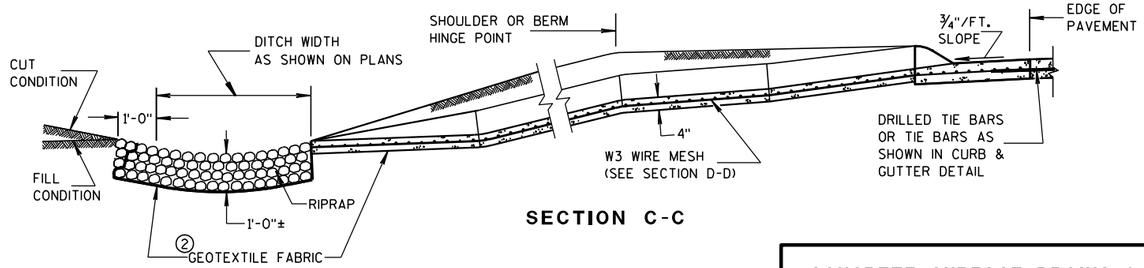
② GEOTEXTILE FABRIC TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.

③ CONCRETE SURFACE DRAIN WITHOUT CURB AND GUTTER MAY BE USED ON BACKSLOPES WHEN SPECIFIED

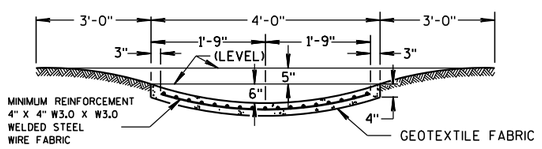
③ CONCRETE SURFACE DRAIN



PLAN VIEW



SECTION C-C



SECTION D-D

CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
9-4-08 DATE
/S/ Jerry H. Zogg ROADWAY STANDARDS ENGINEER
MENT
FHWA

6
S.D.D. 8 D 4-5

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(1) UNPERFORATED PIPE UNDERDRAIN AND FITTINGS FURNISHED FOR OUTFALL PIPE SHALL MEET THE REQUIREMENTS OF ONE OF THE FOLLOWING SPECIFICATIONS:

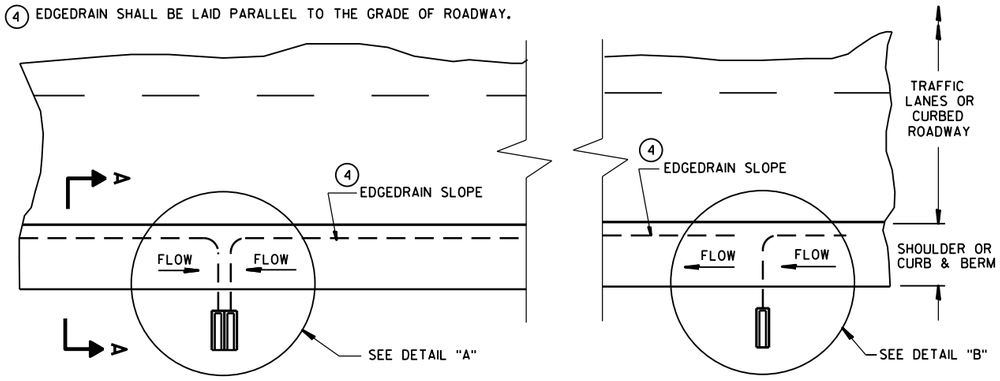
POLYVINYL CHLORIDE (PVC) PLASTIC DRAIN, WASTE, AND VENT PIPE AND FITTINGS, ASTM D 2665, SCHEDULE 40 PVC.

TYPE PSM POLYVINYL CHLORIDE (PVC) SEWER PIPE AND FITTINGS, ASTM D 3034, SDR 23.5 PVC SEWER PIPE.

(2) MAXIMUM SPACING OF EDGEDRAIN OUTLETS SHALL BE 250 FEET UNLESS OTHERWISE SPECIFIED IN THE CONTRACT OR DIRECTED BY THE ENGINEER.

(3) EDGEDRAIN SHALL BE CONNECTED TO INLETS REGARDLESS OF FLOW DIRECTION FOR DRAINAGE AND MAINTENANCE ACCESS.

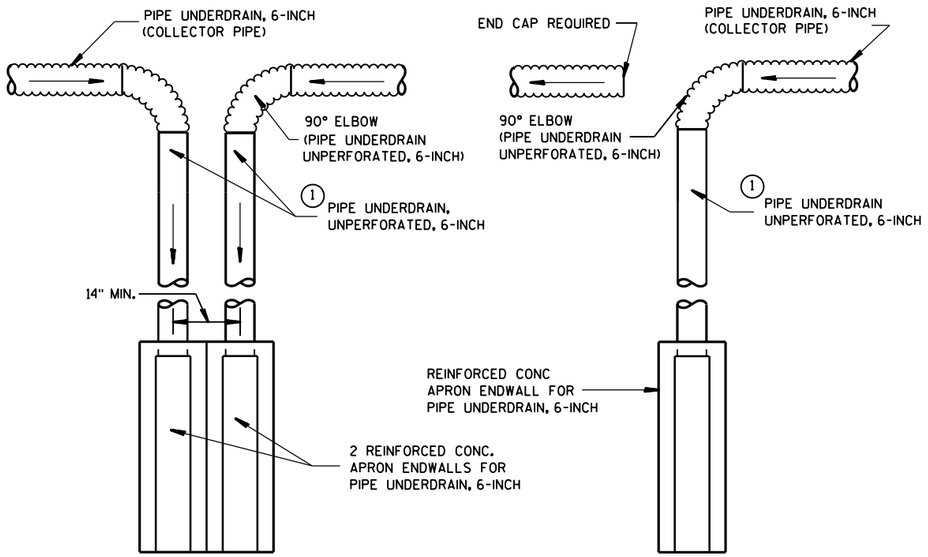
(4) EDGEDRAIN SHALL BE LAID PARALLEL TO THE GRADE OF ROADWAY.



PLAN VIEW

ROADWAY WITH SHOULDERS OR CURBS

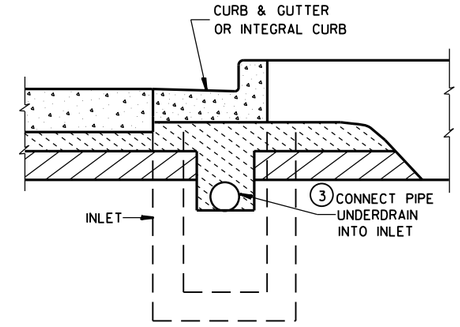
(EDGEDRAIN OUTLETS TO ROADSIDE)(2)



DETAIL "A"
TO BE USED AT LOW POINT LOCATIONS

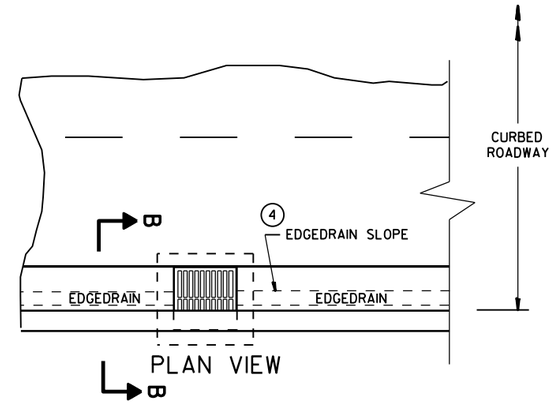
DETAIL "B"
TO BE USED AT INTERMEDIATE LOCATIONS

TYPICAL DRAIN OUT DETAILS



SECTION B-B

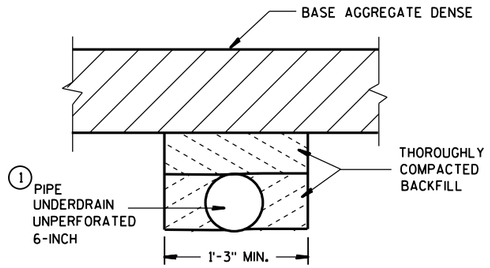
URBAN CROSS SECTION



PLAN VIEW

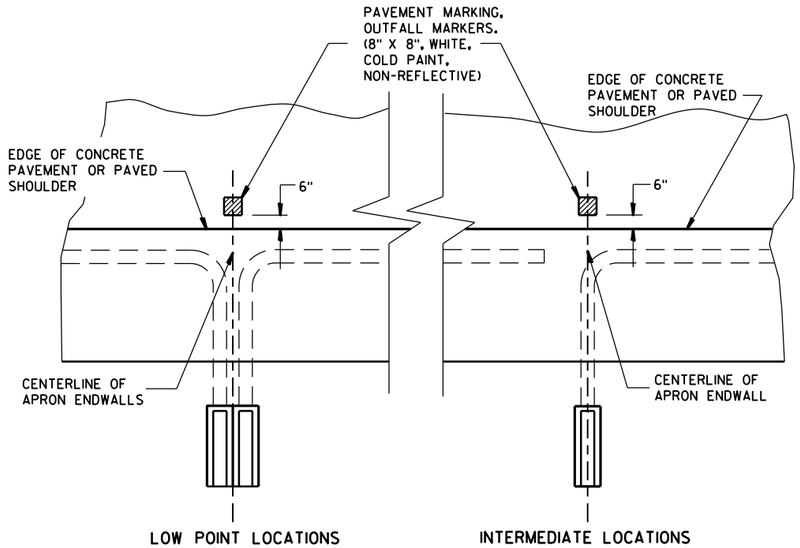
ROADWAY WITH CURBS

(EDGEDRAIN CONNECTS INTO INLET STRUCTURE)



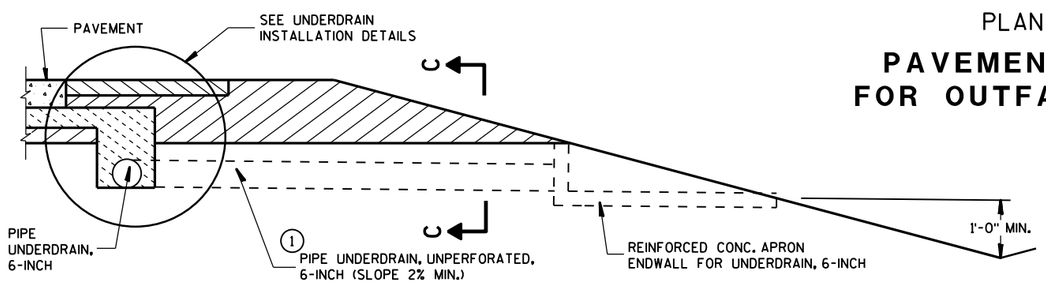
SECTION C-C

(TRENCH FOR OUTFALL PIPE)



PLAN VIEW

PAVEMENT MARKING FOR OUTFALL MARKERS



SECTION A-A

RURAL CROSS SECTION

EDGEDRAIN OUTLET AND OUTFALL MARKERS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

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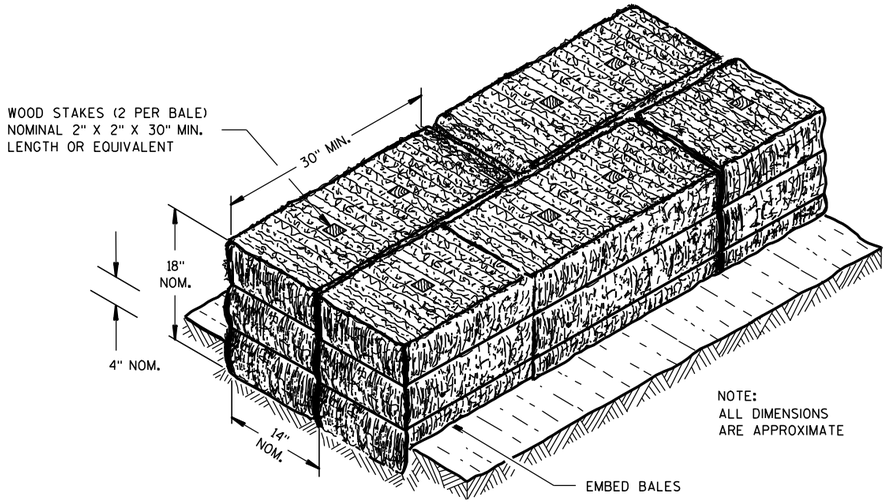
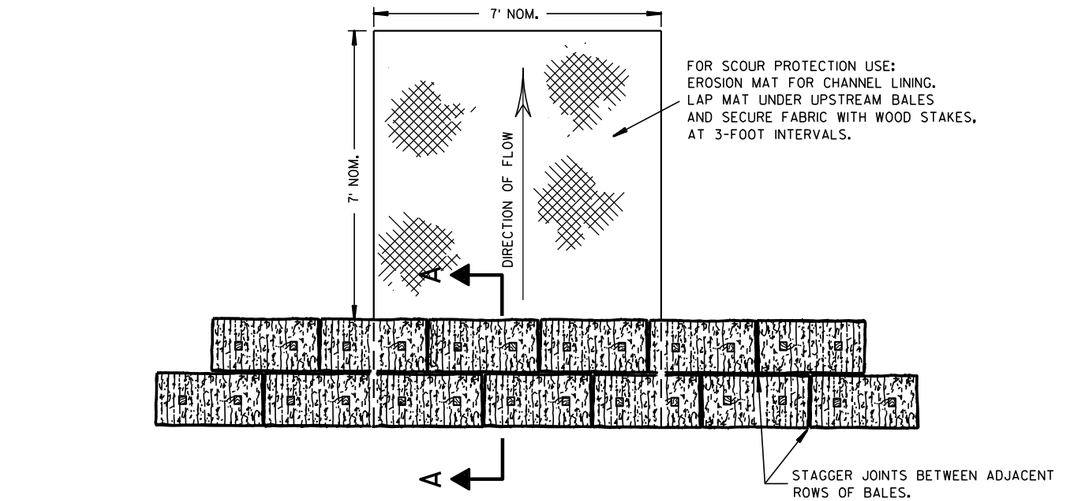
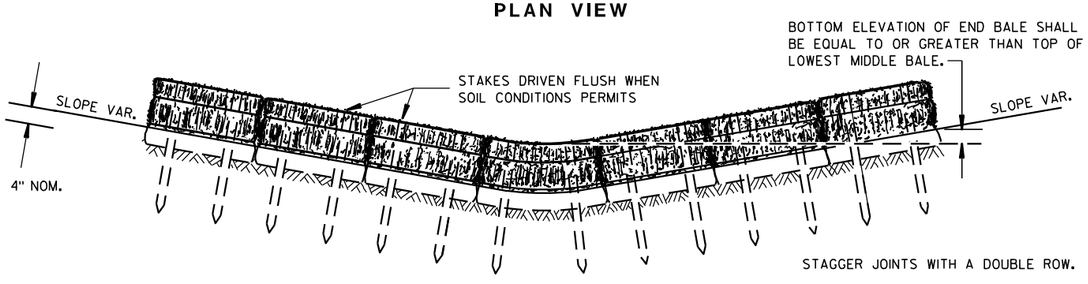
S.D.D. 8 D 15-5a



SECTION A-A



PLAN VIEW



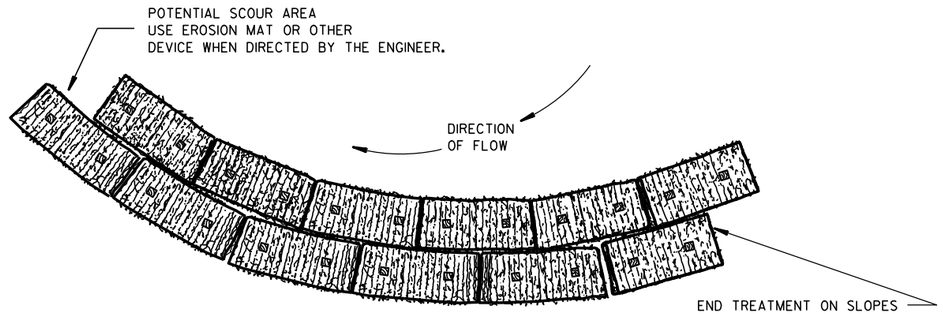
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES ①

GENERAL NOTES

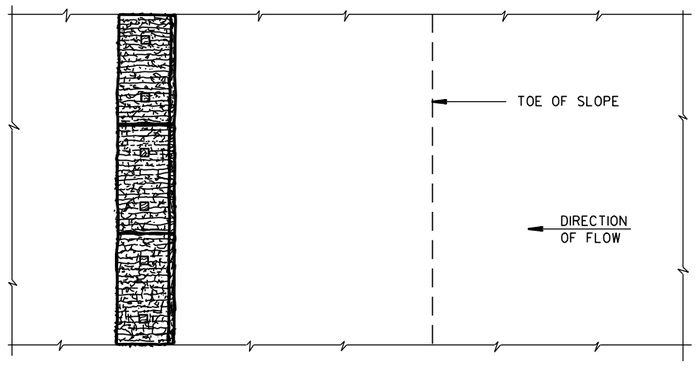
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

① TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.

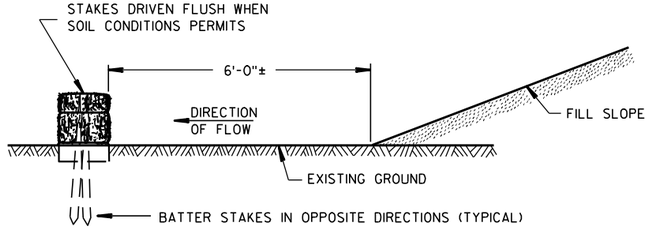


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/04/02 — DATE
/S/ Beth Cannestra — CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 8 E 8-3

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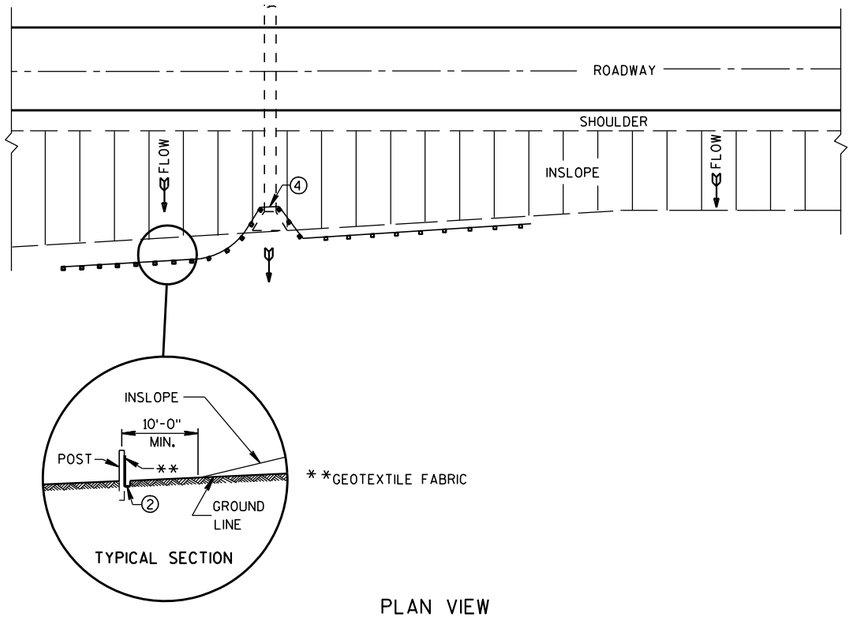
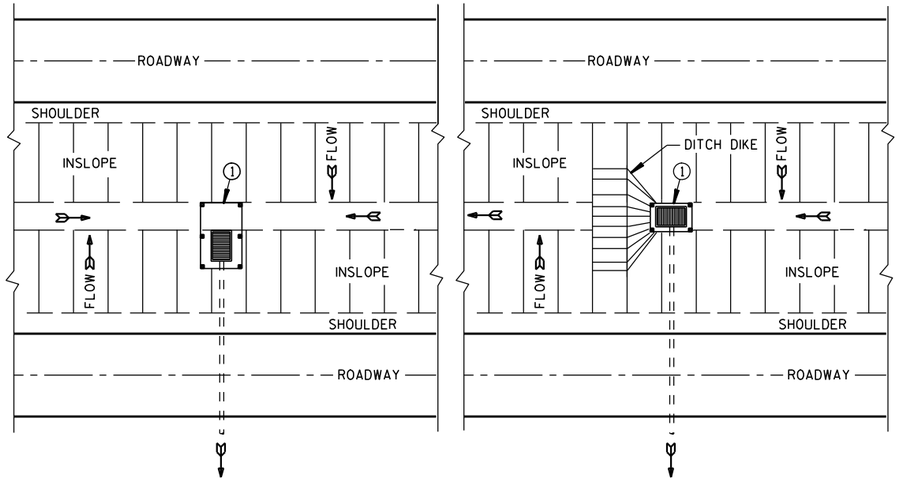
S.D.D. 8 E 8-3



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



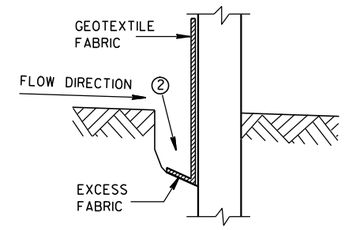
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

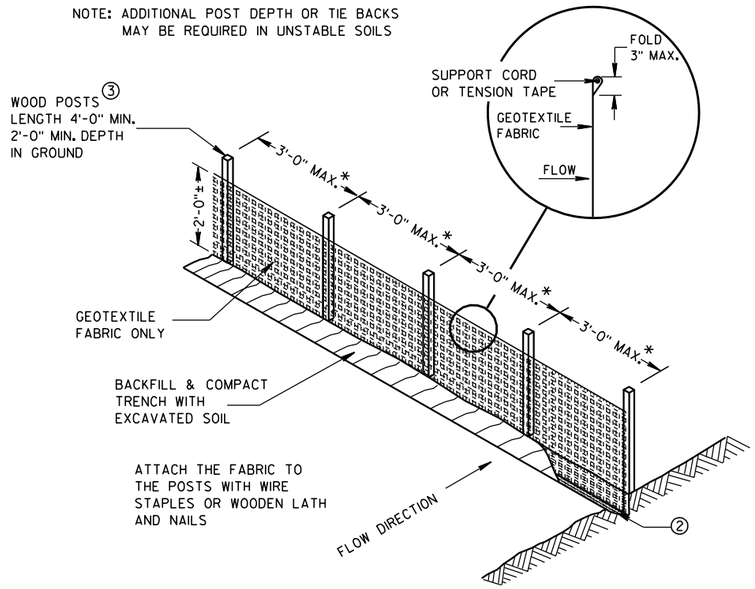
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

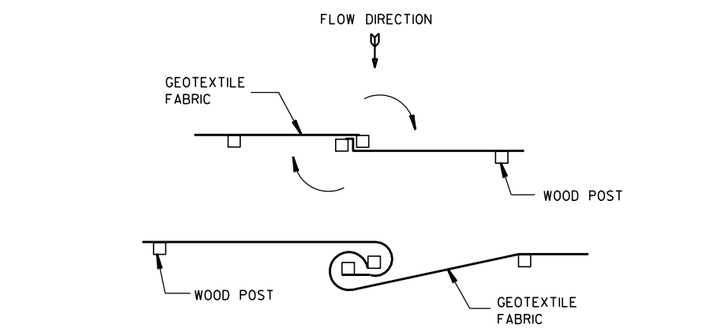
1. HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
2. FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.
4. SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
5. CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



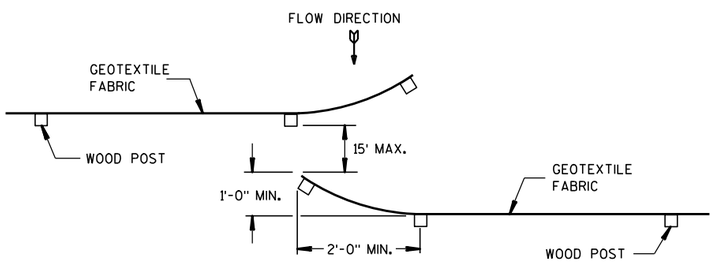
TRENCH DETAIL



SILT FENCE

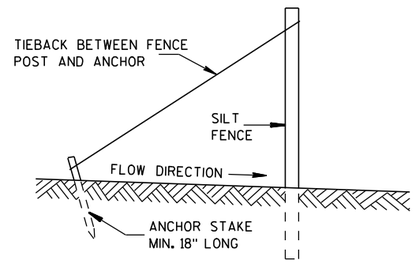


TWIST METHOD



HOOK METHOD

JOINING TWO LENGTHS OF SILT FENCE 5



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

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S.D.D. 8 E 9-6

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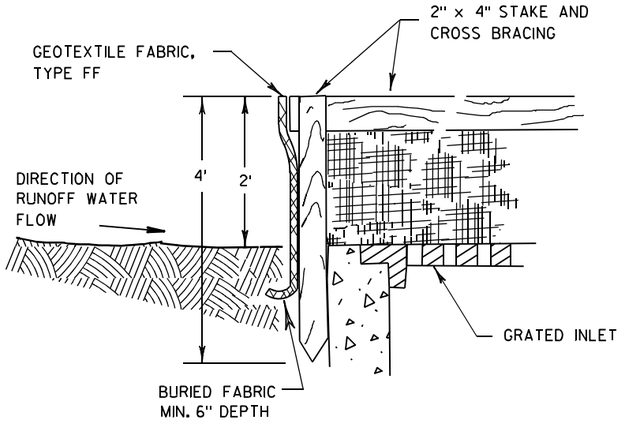
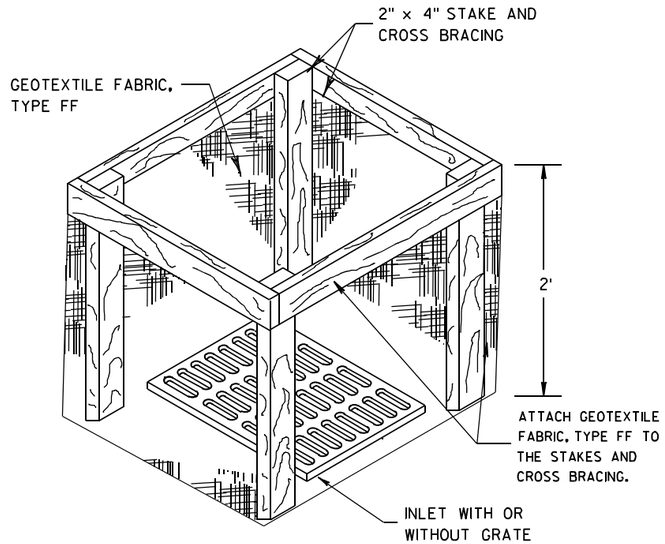
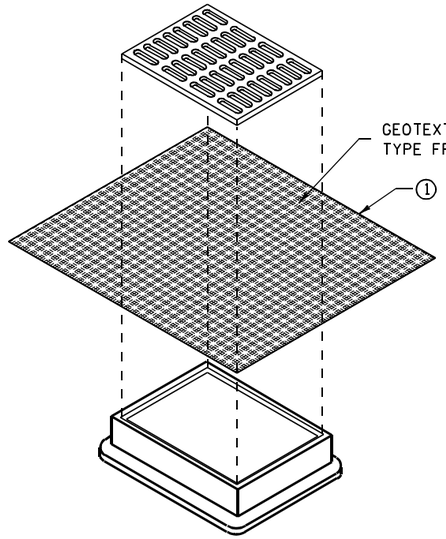
S.D.D. 8 E 9-6



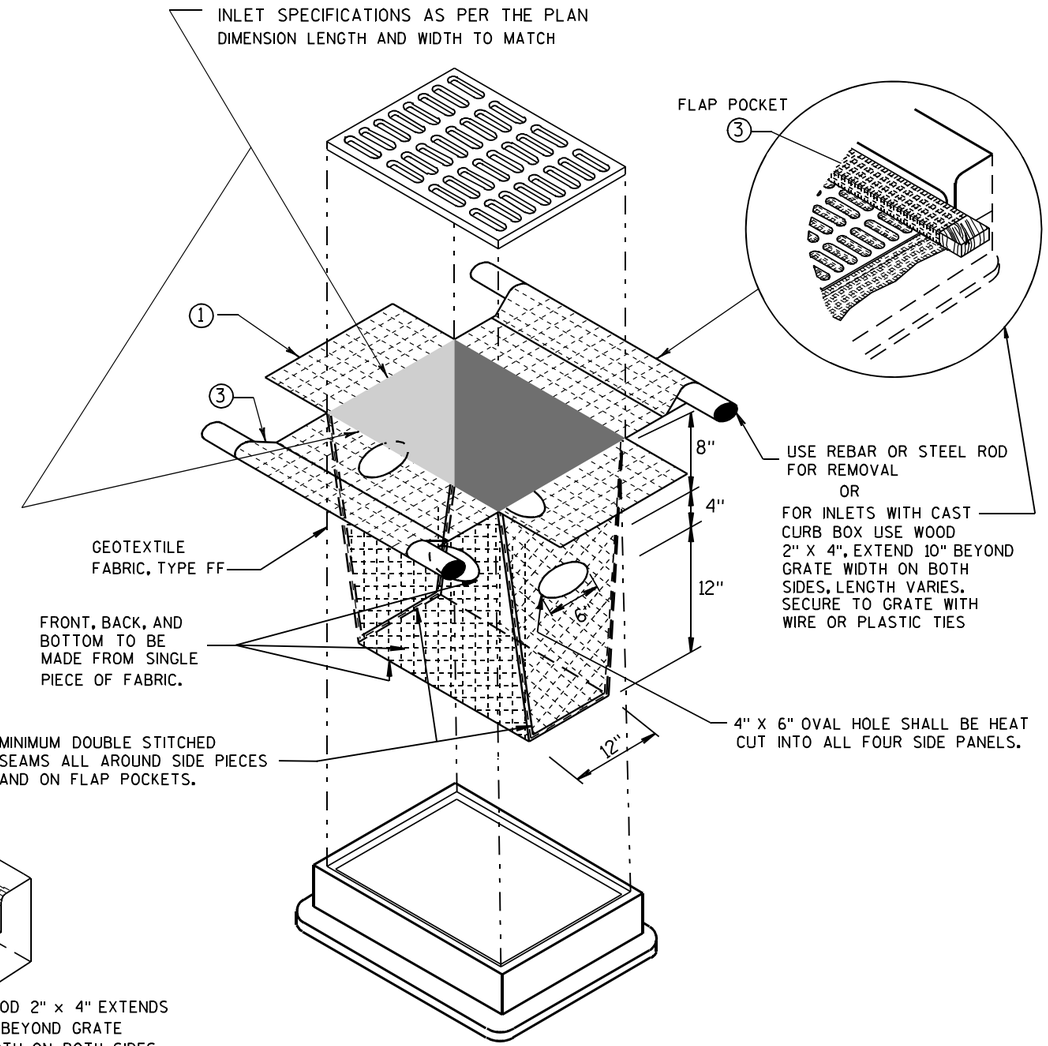


INLET PROTECTION, TYPE A



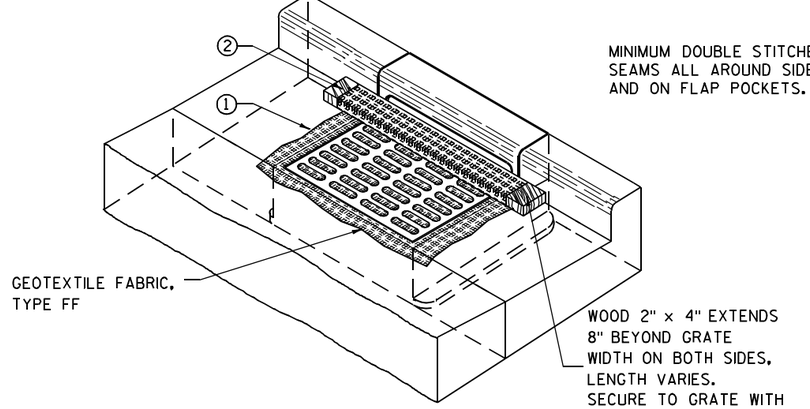
INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH
OR WITHOUT A CURB BOX AS PER NOTE ②)



INLET PROTECTION, TYPE C (WITH CURB BOX)

GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION
TYPE A, B, C, AND D

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

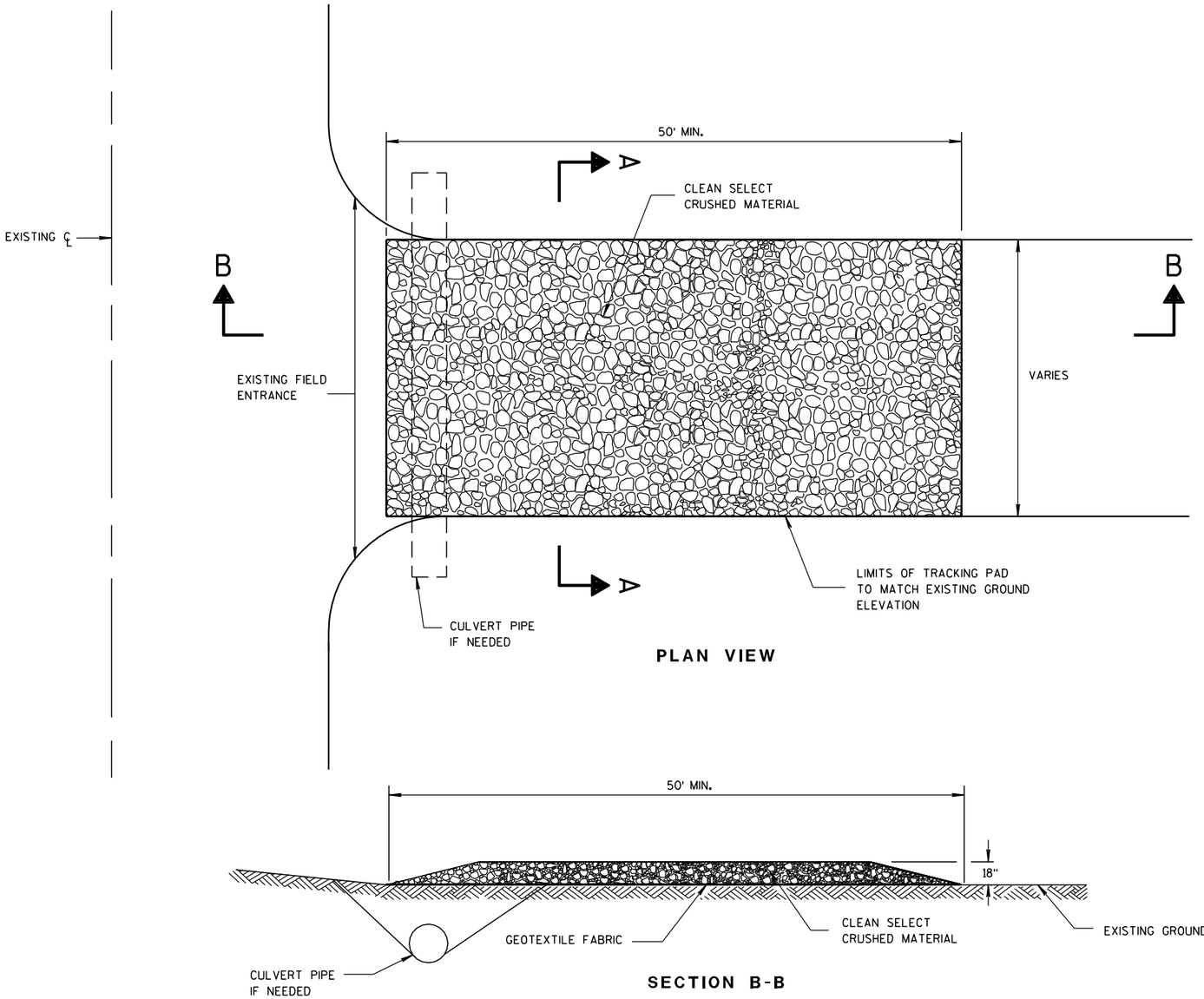
APPROVED

10/16/02
DATE

/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

6
S.D.D. 8 E 10-2



PLAN VIEW

SECTION B-B

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

TRACKING PAD SHALL BE INSPECTED DAILY. DEFICIENT AREAS SHALL BE REPAIRED OR REPLACED IMMEDIATELY.

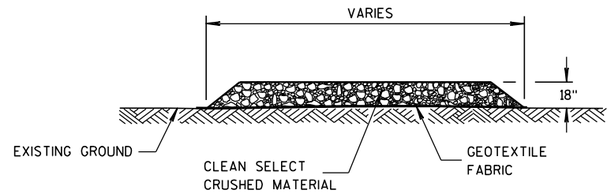
TRACKING PAD TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

TRACKING PAD SHALL BE THE FULL WIDTH OF THE EGRESS POINT.

SURFACE WATER MUST BE PREVENTED FROM PASSING THROUGH THE TRACKING PAD. FLOWS SHALL BE DIVERTED AWAY, AROUND OR CONVEYED UNDER THE TRACKING PAD.

CULVERT PIPE OR OTHER BMP USED TO DIVERT WATER AWAY, AROUND OR UNDER THE TRACKING PAD SHALL BE DESIGNED TO CONVEY THE 2 YEAR - 24 HOUR EVENT.

THE COST OF ADDITIONAL BMP TO DIVERT WATER ARE INCIDENTAL TO THE TRACKING PAD BID ITEM.



SECTION A-A

TRACKING PAD

6

S.D.D. 8 E 14-1

TRACKING PAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

3/24/2011 — DATE

/S/ Jerry H. Zoda — ROADWAY STANDARDS ENGINEER

FHWA

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6

S.D.D. 8 E 14-1

METAL APRON ENDWALLS

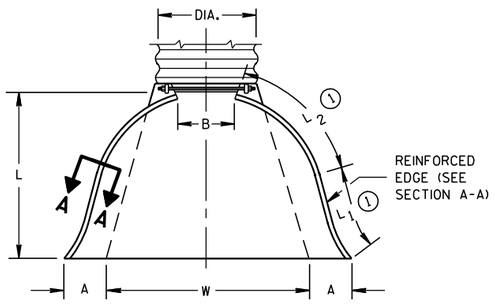
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	36	2 1/2 to 1	1 Pc.
21	.064	.060	9	12	6	36	18	29 5/8	42	2 1/2 to 1	1 Pc.
24	.064	.075	10	13	6	41	18	37 1/4	48	2 1/2 to 1	1 Pc.
30	.079	.075	12	16	8	51	18	52 1/4	60	2 1/2 to 1	1 Pc.
36	.079	.105	14	19	9	60	24	59 3/4	72	2 1/2 to 1	2 Pc.
42	.109	.105	16	22	11	69	24	75 5/8	84	2 1/2 to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 1/4 to 1	3 Pc.
54	.109	.105	18	30	12	84	30	85 1/2	102	2 1/4 to 1	3 Pc.
60	.109×	.105×	18	33	12	87	—	—	114	2 to 1	3 Pc.
66	.109×	.105×	18	36	12	87	—	—	120	2 to 1	3 Pc.
72	.109×	.105×	18	39	12	87	—	—	126	2 to 1	3 Pc.
78	.109×	.105×	18	42	12	87	—	—	132	1 1/2 to 1	3 Pc.
84	.109×	.105×	18	45	12	87	—	—	138	1 1/2 to 1	3 Pc.
90	.109×	.105×	18	37	12	87	—	—	144	1 1/2 to 1	3 Pc.
96	.109×	.105×	18	35	12	87	—	—	150	1 1/2 to 1	3 Pc.

× EXCEPT CENTER PANEL SEE GENERAL NOTES

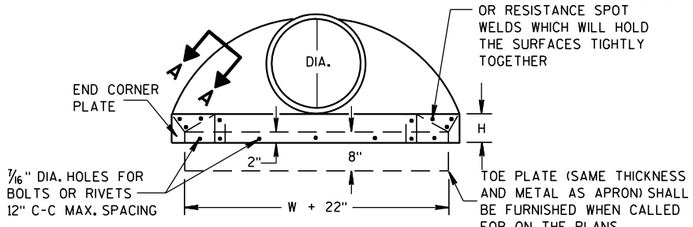
REINFORCED CONCRETE APRON ENDWALLS

PIPE DIA. (IN.)	DIMENSIONS (Inches) T	A	B	C	D	E	G	APPROX. SLOPE
12	2	4	24	48 7/8	72 1/8	24	2	3 to 1
15	2 1/4	6	27	46	73	30	2 1/4	3 to 1
18	2 1/2	9	27	46	73	36	2 1/2	3 to 1
21	2 3/4	9	36	37 1/2	73 1/2	42	2 3/4	3 to 1
24	3	9 1/2	43 1/2	30	73 1/2	48	3	3 to 1
27	3 1/4	10 1/2	49 1/2	24	73 1/2	54	3 1/4	3 to 1
30	3 1/2	12	54	19 3/4	73 1/2	60	3 1/2	3 to 1
36	4	15	63	34 3/4	97 3/4	72	4	3 to 1
42	4 1/2	21	63	35	98	78	4 1/2	3 to 1
48	5	24	72	26	98	84	5	3 to 1
54	5 1/2	27	65	* 33 1/4 - ** 35	* 98 1/4 - ** 100	90	5 1/2	2 2/5 to 1
60	6	* 30 - ** 35	60	39	99	96	5	2 to 1
66	6 1/2	* 24 - ** 30	* 72 - ** 78	* 21 - ** 27	99	102	5 1/2	2 to 1
72	7	* 24 - ** 36	78	21	99	108	6	2 to 1
78	7 1/2	* 24 - ** 36	78	21	99	114	6 1/2	2 to 1
84	8	36	90 1/2	21	111 1/2	120	6 1/2	1 1/2 to 1
90	8 1/2	41	87 1/2	24	111 1/2	132	6 1/2	1 1/2 to 1

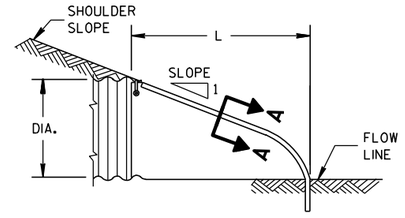
*MINIMUM
**MAXIMUM



PLAN VIEW

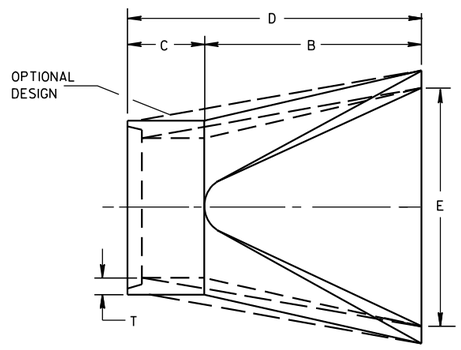


END VIEW

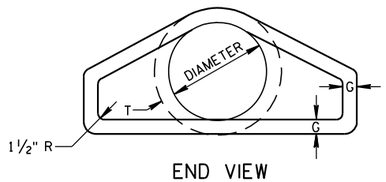


SIDE ELEVATION

METAL ENDWALLS



PLAN



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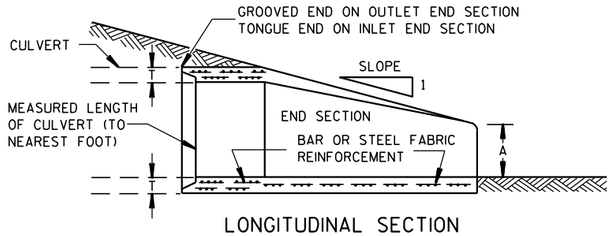
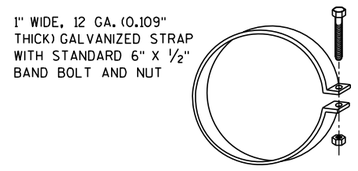


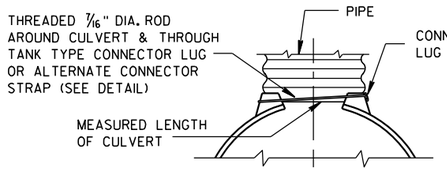
LONGITUDINAL SECTION

CONCRETE ENDWALLS

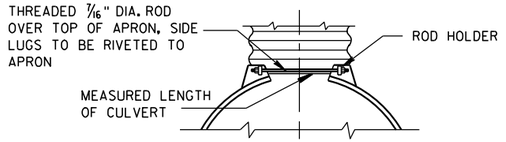


ALTERNATE FOR TYPE 1 CONNECTION

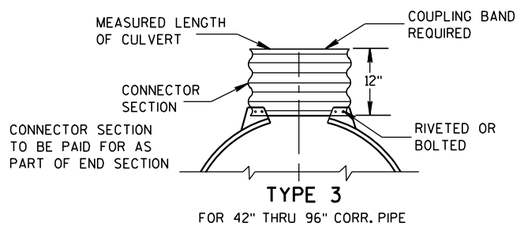
END SECTION CONNECTOR STRAP



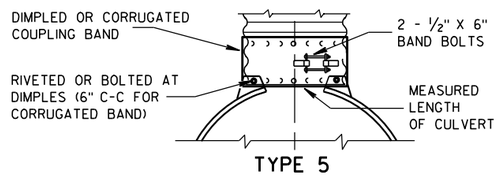
TYPE 1
FOR 12" THRU 24" CORR. PIPE



TYPE 2
FOR 30" THRU 96" CORR. PIPE



TYPE 3
FOR 42" THRU 96" CORR. PIPE



TYPE 5
ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

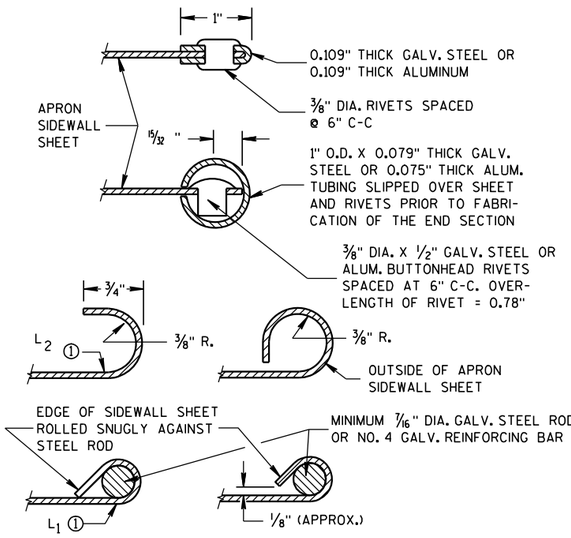
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5 AS APPLICABLE.

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

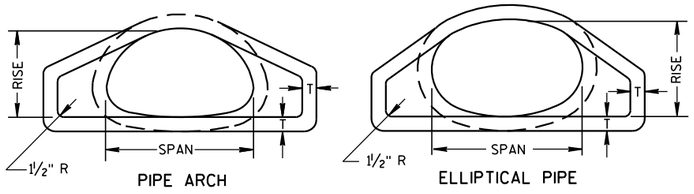
① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR CULVERT PIPE

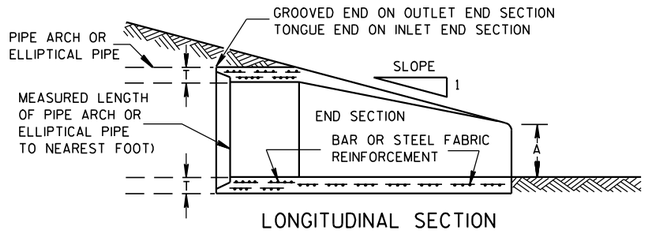
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/30/94 DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6
S.D.D. 8 F 1-11



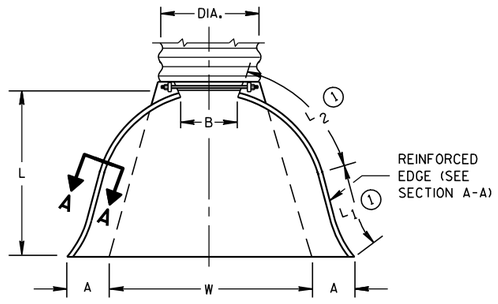
END VIEW



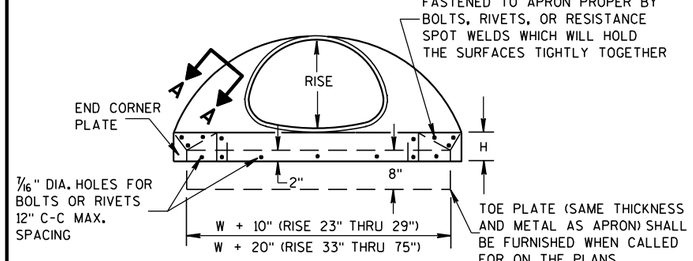
LONGITUDINAL SECTION

PLAN VIEW

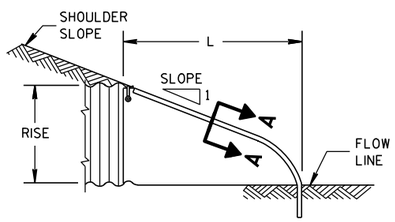
CONCRETE ENDWALLS



PLAN VIEW

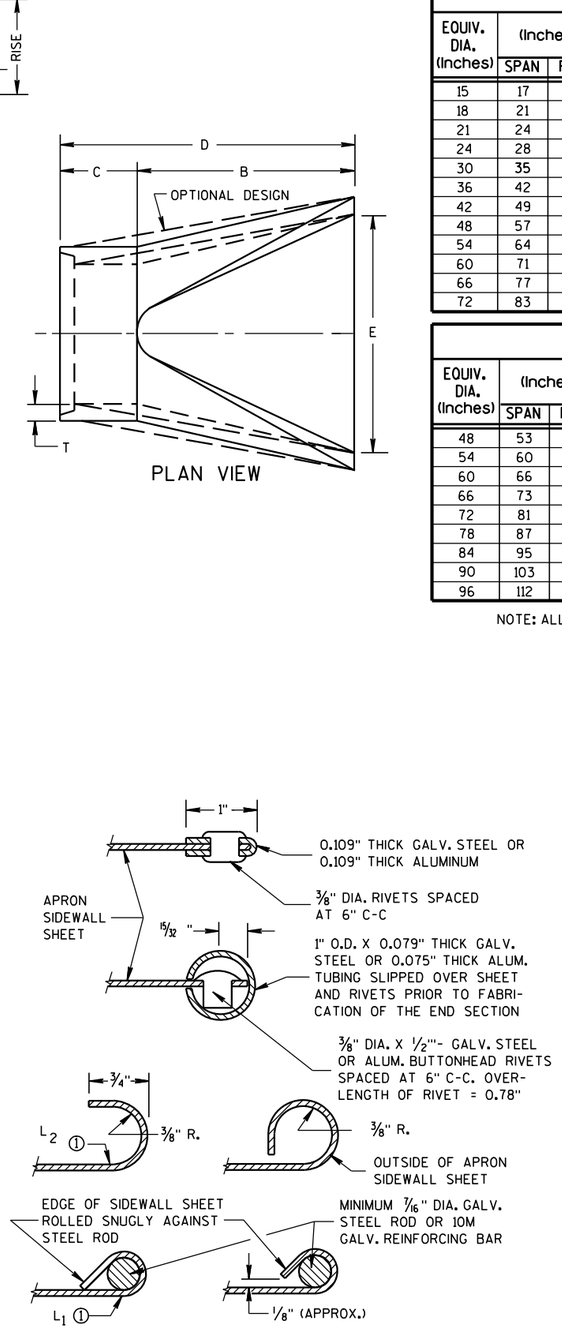


END VIEW



SIDE ELEVATION

METAL ENDWALLS



SECTION A-A

2- 2/3" X 1/2" CORRUGATIONS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
15	17	13	.064	.060	7	9	6	19	14	16	30	2½ to 1	1 Pc.
18	21	15	.064	.060	7	10	6	23	14	19⅜	36	2½ to 1	1 Pc.
21	24	18	.064	.060	8	12	6	28	18	21¾	42	2½ to 1	1 Pc.
24	28	20	.064	.060	9	14	6	32	18	27½	48	2½ to 1	1 Pc.
30	35	24	.079	.075	10	16	6	39	18	37⅝	60	2½ to 1	1 Pc.
36	42	29	.079	.075	12	18	8	46	24	45⅜	75	2½ to 1	1 Pc.
42	49	33	.109	.105	13	21	9	53	24	54¾	85	2½ to 1	2 Pc.
48	57	38	.109	.105	18	26	12	63	24	68	90	2½ to 1	3 Pc.
54	64	43	.109	.105	18	30	12	70	24	72¾	102	2¼ to 1	3 Pc.
60	71	47	.109*	.105*	18	33	12	77	30	82¼	114	2¼ to 1	3 Pc.
66	77	52	.109*	.105*	18	36	12	77	—	—	126	2 to 1	3 Pc.
72	83	57	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.

3" X 1" CORRUGATIONS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
48	53	41	.109	.105	18	26	12	63	24	72¾	90	2½ to 1	2 Pc.
54	60	46	.109	.105	18	30	12	70	30	82¼	102	2 to 1	2 Pc.
60	66	51	.109*	.105*	18	33	12	77	—	—	114	1½ to 1	3 Pc.
66	73	55	.109*	.105*	18	36	12	77	—	—	126	1½ to 1	3 Pc.
72	81	59	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.
78	87	63	.109*	.105*	22	38	12	77	—	—	148	1½ to 1	3 Pc.
84	95	67	.109*	.105*	22	34	12	77	—	—	162	1½ to 1	3 Pc.
90	103	71	.109*	.105*	22	38	12	77	—	—	174	1½ to 1	3 Pc.
96	112	75	.109*	.105*	24	40	12	77	—	—	174	1½ to 1	3 Pc.

NOTE: ALL SPLICES TO BE LAP RIVETED OR BOLTED.

* EXCEPT CENTER PANEL SEE GENERAL NOTES

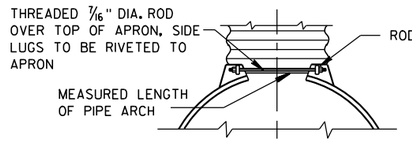
REINFORCED CONCRETE PIPE ARCH

EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	29	18	3	8½	39	33	72	48	3 to 1
30	36	22	3½	9½	50	46	96	60	3 to 1
36	44	27	4	11⅛	60	36	96	72	3 to 1
42	51	31	4½	15 13/16	60	36	96	78	3 to 1
48	58	36	5	21	60	36	96	84	3 to 1
54	65	40	5½	25½	60	36	96	90	3 to 1
60	73	45	6	31	60	36	96	96	3 to 1
72	88	54	7	31	60	39	99	120	2 to 1
84	102	62	8	28½	83	19	102	144	2 to 1

REINFORCED CONCRETE ELLIPTICAL PIPE

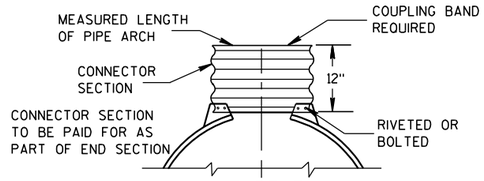
EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	30	19	3¼	8½	39	33	72	48	3 to 1
30	38	24	3¾	9½	54	18	72	60	3 to 1
36	45	29	4½	11⅛	60	24	84	72	2½ to 1
42	53	34	5	15¾	60	36	96	78	2½ to 1
48	60	38	5½	21	60	36	96	84	2½ to 1
54	68	43	6	25½	60	36	96	90	2½ to 1
60	76	48	6½	30	60	36	96	96	2½ to 1

**NOMINAL SIZE



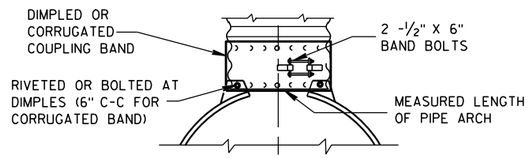
TYPE 2

FOR 17" X 13" THRU 112" X 75" PIPE ARCH



TYPE 3

FOR 64" X 43" THRU 112" X 75" PIPE ARCH



TYPE 5

ALTERNATE FOR:

ALL SIZES CORRUGATED PIPE ARCHES

NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL, AND CORRUGATED BAND FITS INSIDE ENDWALL.

CONNECTION DETAILS

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

CONCRETE APRON ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM APRON ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE ARCH PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 77" X 52" THROUGH 112" X 75" APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

① FOR PIPE ARCH SIZES UP TO 73" X 55" A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

11/30/94 — DATE

/S/ Rory L. Rhinesmith — CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

6

S.D.D. 8 F 2-1

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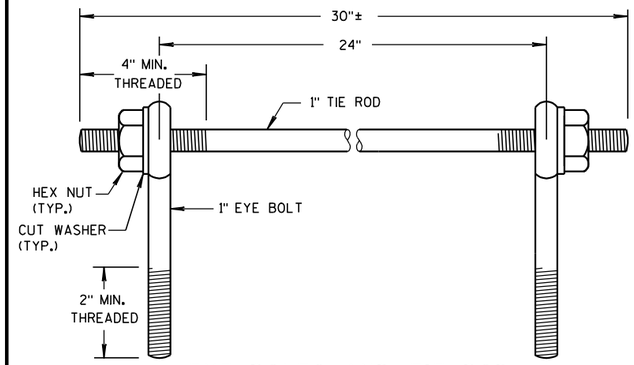
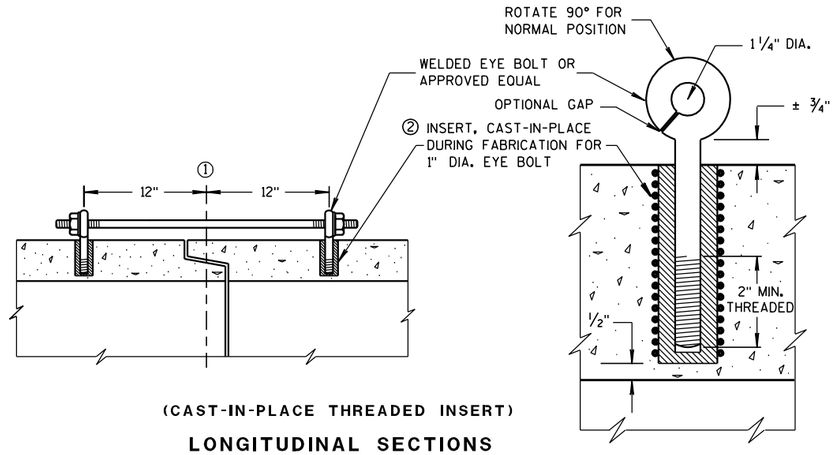
S.D.D. 8 F 2-1



EYE BOLTS AND TIE ROD



(CAST-IN-PLACE THREADED INSERT)

LONGITUDINAL SECTIONS

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 1)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT AND STORM SEWER PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED IN THE STANDARD SPECIFICATIONS AND THE PLAN. THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR DRAINAGE STRUCTURES. ONLY ALTERNATE 1 AND 3 MAY BE USED FOR CATTLE PASSES, UNLESS OTHERWISE STATED IN THE CONTRACT. THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE THE PIPE BY THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO THE PIPE AND APRON ENDWALLS IF REQUIRED.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

JOINT TIES TO BE HOT-DIP GALVANIZED PER ASTM A 153.

① ℄ OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.

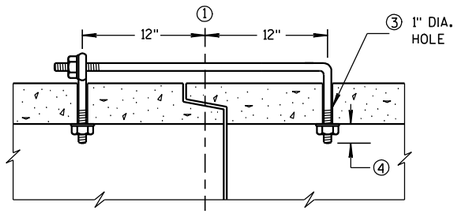
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

③ HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12 INCHES FROM ℄ OF TONGUE AND GROOVE.

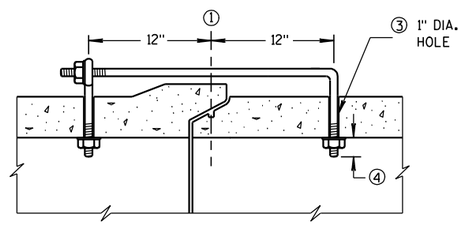
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

⑤ OPENING TO BE ROD DIAMETER PLUS 1 INCH.

⑥ LENGTH ADEQUATE TO EXTEND TO WITHIN 1/2 INCH OF THE INNER SURFACE OF THE PIPE.



(TONGUE & GROOVE PIPE)

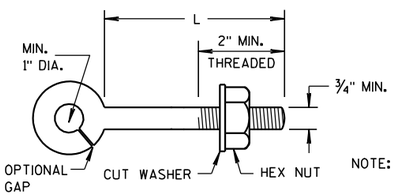


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

EYE BOLT DIMENSION TABLE

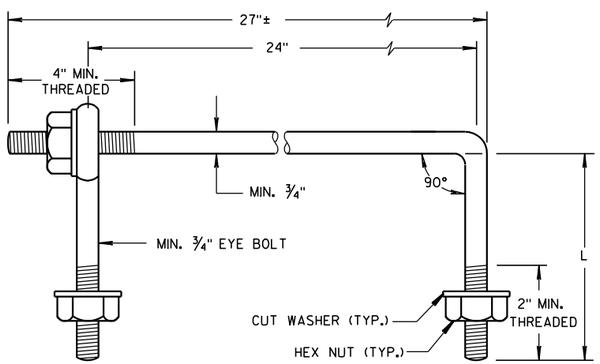
PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	



NOTE:

EYE BOLT

NOTE: TWO EYE BOLTS MAY BE USED WITH A 30" LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.



EYE BOLT AND TIE ROD

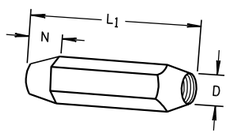
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 2)

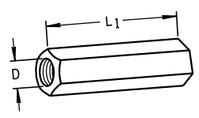
ADJUSTABLE TIE ROD TABLE

PIPE DIAMETER	TIE ROD DIAMETER	D	L_1	N
12-60	5/8	5/8	5	1/2
66-84	3/4	3/4	5	1/2
90-108	1	1	7	1 1/16

DIMENSIONS SHOWN ARE IN INCHES



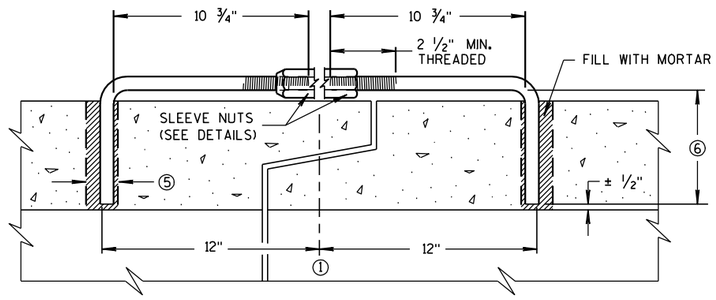
TAPERED



PLAIN

RIGHT AND LEFT THREADS

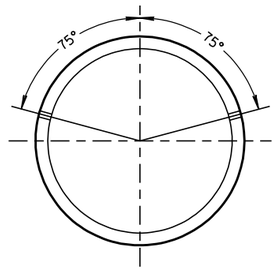
SLEEVE NUTS



LONGITUDINAL SECTION

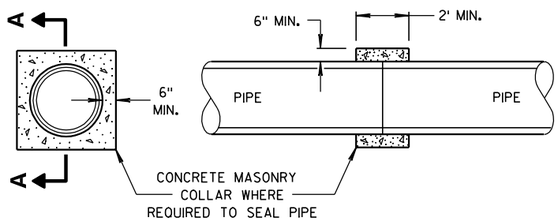
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



PLACEMENT OF (2) CAST-IN-PLACE INSERTS OR HOLES DURING FABRICATION FOR PIPE SECTIONS REQUIRING TIE RODS

TRANSVERSE SECTION



SECTION A-A

CONCRETE COLLAR DETAIL

JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
137
FHWA

6

S.D.D. 8 F 4-7

6

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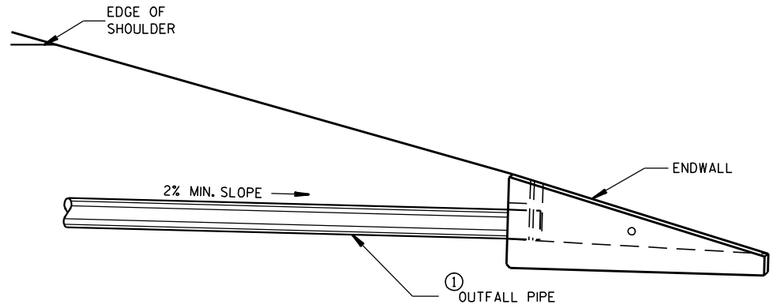
DIMENSIONS IN INCHES											
PIPE DIA.	A	B	C	D	E	F	G	H	J	L	Z
**4	6	12	5 1/4	9	8	32	36	11	2 3/8	6 1/2	4
6	8	14	7 1/4	11	10	42	44	13	3 5/8	8 1/2	6

**APRON ENDWALL FOR 6 INCH DIAMETER PIPE MAY BE SUBSTITUTED FOR THIS SIZE PROVIDED THE HOLE IN THE HEADWALL IS SIZED AND LOCATED TO CONFORM TO THE 4 INCH DIAMETER PIPE DIMENSIONS (C & J)



INSTALLATION DETAIL

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

ALTERNATIVE DESIGNS WHICH PROVIDE EQUIVALENT CAPACITY AND STRENGTH MAY BE USED WHEN APPROVED BY THE ENGINEER. ENDWALL MAY BE EITHER PRECAST OR CAST-IN-PLACE CONCRETE.

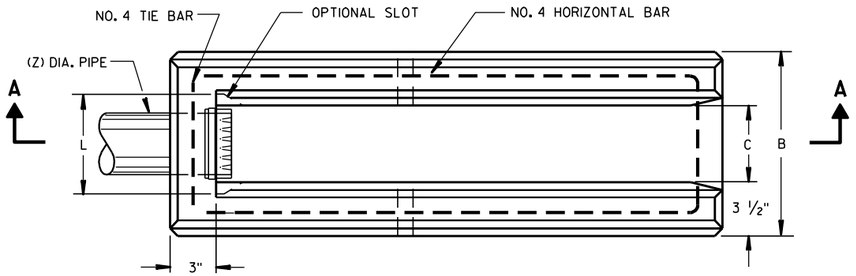
THE UNDERDRAIN PIPE SHALL BE FULLY INSERTED AND SEALED INTO THE ENDWALL WITH CEMENT MORTAR PRIOR TO BACKFILLING AROUND THE STRUCTURE.

THE UPPERMOST POINT OF THE ENDWALL SHALL BE PLACED FLUSH WITH THE ROADWAY SLOPE. ADJACENT EMBANKMENT SLOPES SHALL BE SHAPED TO FIT THE SIDES AND TOE OF THE ENDWALL. EXACT PLACEMENT OF THE OUTFALL PIPE AND ENDWALL SHALL BE DETERMINED BY THE ENGINEER TO MATCH THE ELEVATIONS AND FLOW DIRECTION OF THE ROADSIDE DITCH.

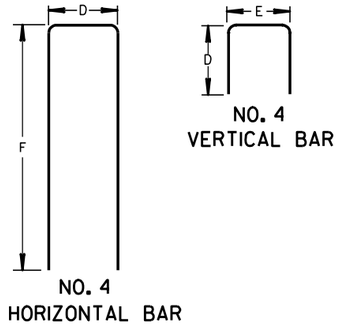
① THE OUTFALL PIPE UNDERDRAIN AND FITTINGS SHALL CONFORM TO THE REQUIREMENTS OF THE SPECIFICATION FOR POLY (VINYL CHORIDE) (PVC) PLASTIC DRAIN, WASTE AND VENT PIPE AND FITTINGS, ASTM DESIGNATION: D 2665, SCHEDULE 40 PVC OR THE STANDARD SPECIFICATION FOR TYPE PSM POLY (VINYL CHORIDE) (PVC) SEWER PIPE AND FITTINGS, ASTM DESIGNATION: D 3034, TYPE PSM SDR 23.5 PVC SEWER PIPE, ALL JOINTS SHALL BE SOLVENT WELDED.

THE OUTFALL PIPE INCLUDING ALL FITTINGS AND THE RODENT SHIELD SHALL BE MEASURED AND PAID FOR AS PIPE UNDERDRAIN UNPERFORATED.

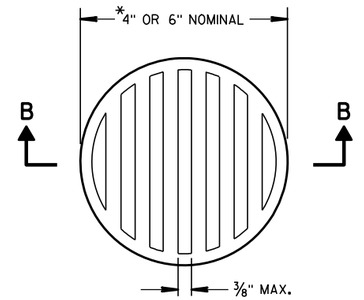
② THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE OUTFALL PIPE. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.

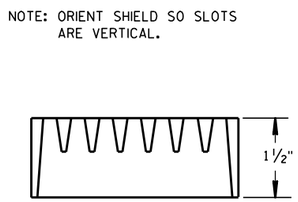


PLAN VIEW



BAR STEEL REINFORCEMENT DETAILS

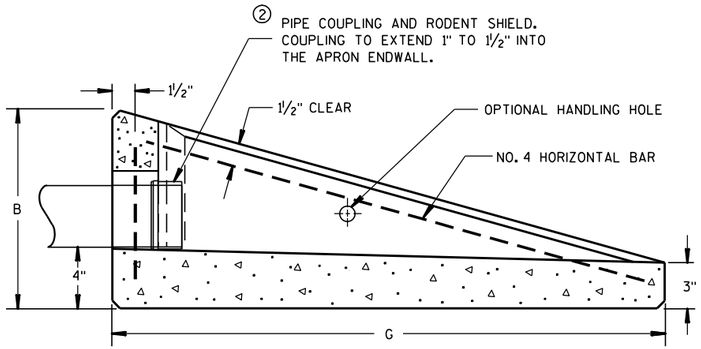




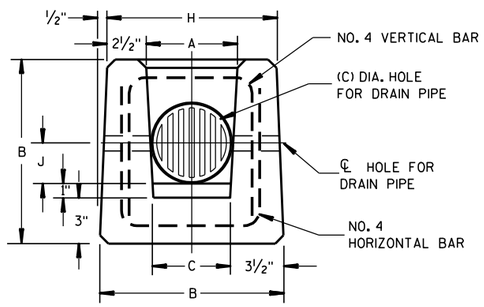
SECTION B-B

② RODENT SHIELD

*NOTE: DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING.



SECTION A-A



END VIEW

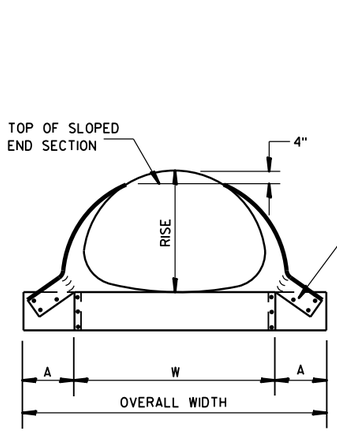
CONCRETE APRON ENDWALL FOR UNDERDRAIN

REINFORCED CONCRETE APRON ENDWALL FOR PIPE UNDERDRAIN

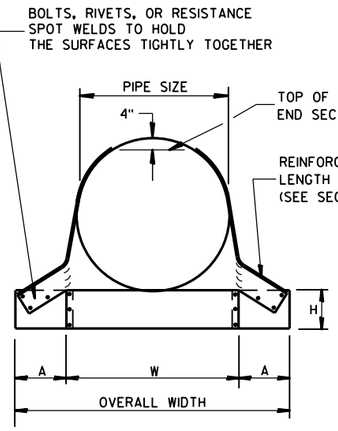
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
3/10/98 DATE
/S/ Rory L. Rhinearson
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

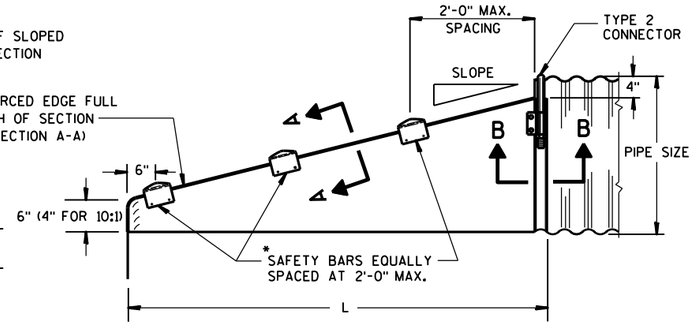
6
S.D.D. 8 F 6-4



FRONT VIEW



FRONT VIEW



SIDE VIEW

GENERAL NOTES

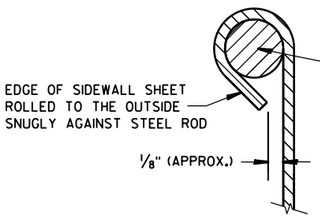
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

SLOPED END SECTIONS SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS, SECTION 521 FOR STEEL APRON ENDWALLS.

SAFETY BARS SHALL BE FABRICATED FROM GALVANIZED STEEL PIPE MEETING THE REQUIREMENTS OF ASTM A-53, GRADE B, SCHEDULE 40 OR APPROVED EQUAL.

STEEL APRON ENDWALLS FOR CULVERT PIPE
SLOPED SIDE DRAINS

PIPE DIA. (IN.)	MIN. THICK. (Inches)	DIMENSIONS (Inches)				L DIMENSIONS					
		A	H	W	OVERALL WIDTH	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES
15	.064	8	6	21	37	4:1	20	6:1	30	10:1	70
18	.064	8	6	24	40	4:1	32	6:1	48	10:1	100
21	.064	8	6	27	43	4:1	44	6:1	66	10:1	130
24	.064	8	6	30	46	4:1	56	6:1	84	10:1	160
30	.109	12	9	36	60	4:1	80	6:1	120	10:1	220
36	.109	12	9	42	66	4:1	104	6:1	156	10:1	280
42	.109	16	12	48	80	4:1	128	6:1	192	——	——
48	.109	16	12	54	86	4:1	152	6:1	228	——	——
54	.109	16	12	60	92	4:1	176	6:1	264	——	——
60	.109	16	12	66	98	4:1	200	6:1	300	——	——



SECTION A-A

*NOTE:
THREE SAFETY BARS ARE SHOWN. ACTUAL NUMBER OF BARS REQUIRED AT A 2'-0" C-C MAX. SPACING WILL VARY DEPENDING ON THE LENGTH OF THE END SECTION.

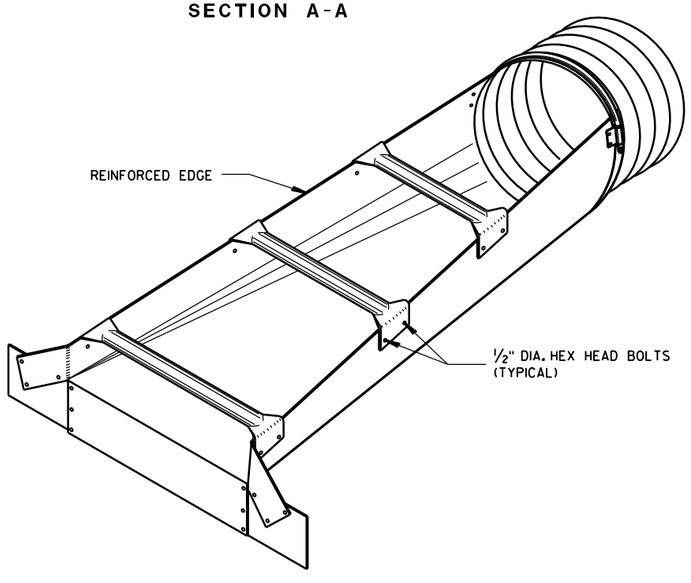
3" GALVANIZED PIPE. FLATTEN ENDS, THEN BEND OUTSIDE 4" TO MATCH END SECTION SIDES.

DETAIL OF SAFETY BAR

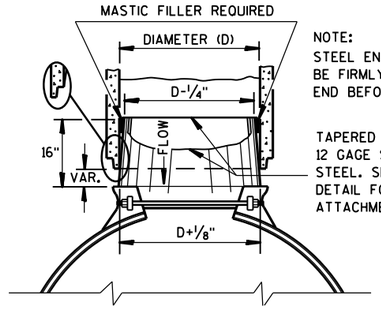
STEEL APRON ENDWALLS FOR PIPE ARCH
SLOPED SIDE DRAINS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) ①	DIMENSIONS (Inches) A	H	W	OVERALL WIDTH	L DIMENSIONS SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES
15	17	13	.064 *	7	6	30	44	4:1	19	6:1	30	10:1 ②	70
18	21	15	.064 *	8	6	27	43	4:1	20	6:1	30	10:1	70
21	24	18	.064 *	8	6	30	46	4:1	32	6:1	48	10:1	100
24	28	20	.064 *	8	6	34	50	4:1	40	6:1	60	10:1	120
30	35	24	.079 *	12	9	41	65	4:1	56	6:1	84	10:1	160
36	42	29	.109 *	12	9	48	72	4:1	76	6:1	114	10:1	210
42	49	33	.109	16	12	55	87	4:1	92	6:1	138	——	——
48	57	38	.109	16	12	63	95	4:1	112	6:1	168	——	——
54	64	43	.109	16	12	70	102	4:1	132	6:1	198	——	——

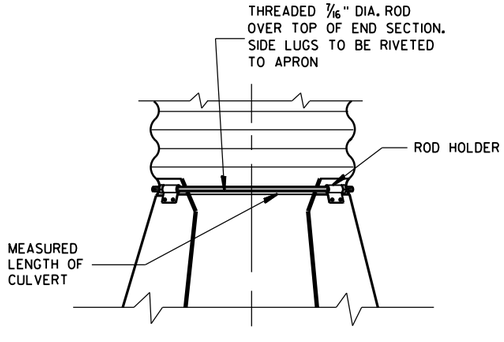
① * MINIMUM THICKNESS OF ALL 10:1 SLOPED SIDE DRAINS IS 0.109".
② ACTUAL SLOPE GREATER THAN 10:1.



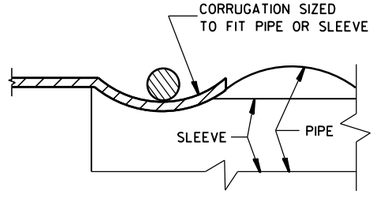
ISOMETRIC VIEW



STEEL ADAPTER SLEEVE FOR CONCRETE PIPE



TYPE 2
CONNECTION DETAIL



SECTION B-B

STEEL APRON ENDWALLS FOR CULVERT PIPE AND PIPE ARCH SLOPED SIDE DRAINS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
9/14/2012 — DATE
/S/ Jerry H. Zoda — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

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S.D.D. 8 F 7-5

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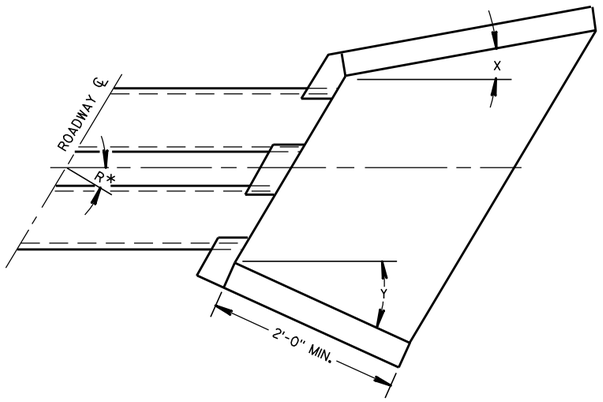
S.D.D. 8 F 7-5



WINGWALL ANGLE DETAILS

INLET			OUTLET		
R*	X	Y	R*	X	Y
0 - 7°	30°	30°	0 - 15°	15°	15°
8 - 22°	25°	"	16 - 45°	10°	"
23 - 37°	20°	"	46 - 75°	5°	"
38 - 52°	15°	"	OVER 75°	0°	"
53 - 67°	10°	"			
68 - 82°	5°	"			
OVER 82°	0°	"			

*R = NUMBER OF DEGREES RIGHT OR LEFT HAND FORWARD

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

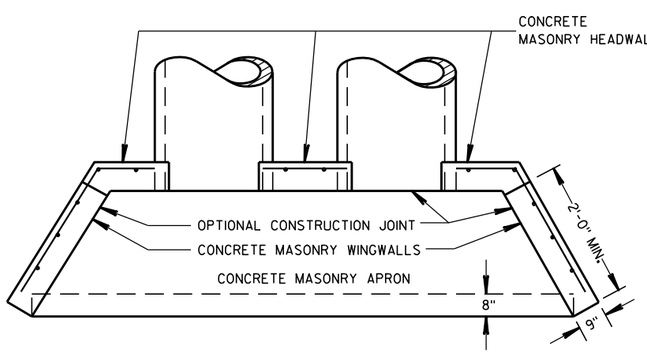
FILL SLOPES FLATTER THAN 2 ½:1 SHALL BE WARPED TO MEET THE TOP OF THE WINGWALLS.

ALL STEEL REINFORCEMENT AND WELDED STEEL WIRE FABRIC SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE NOTED.

(1) MINIMUM REINFORCEMENT SHALL BE 6" X 6" - W4.0 X W4.0 OR NO. 3 BARS SPACED 12" C-C IN BOTH DIRECTIONS.

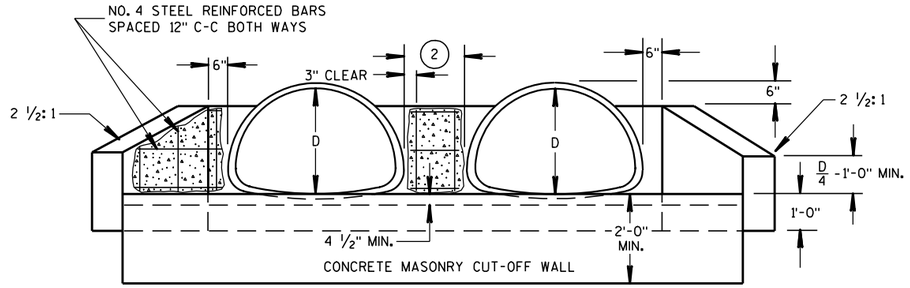
(2) THE SPACE BETWEEN PIPES SHALL BE AS FOLLOWS:

DIAMETER OR SPAN	SPACE
UP TO AND INCLUDING 48"	2'-0"
OVER 48" TO 72"	½ DIA. OR SPAN
OVER 72"	3'-0"



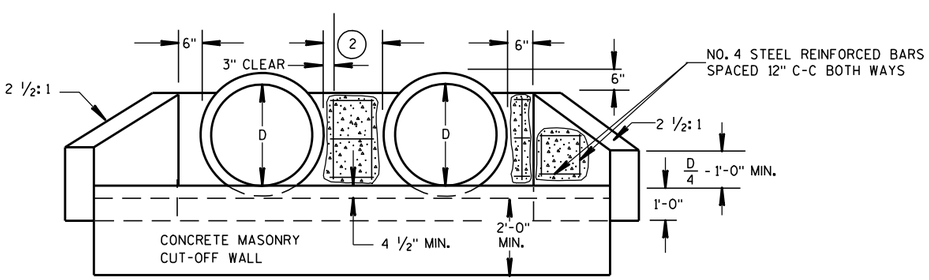
PLAN VIEW

CULVERT PIPE AND PIPE ARCH



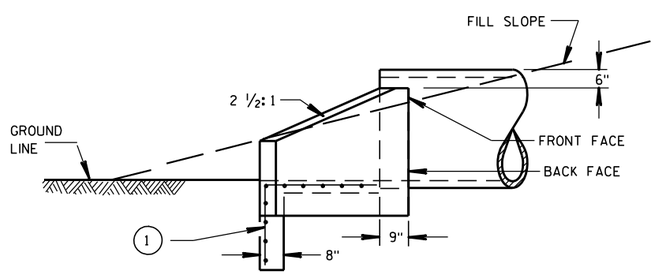
END ELEVATION

PIPE ARCH



END ELEVATION

CULVERT PIPE



SIDE ELEVATION

CULVERT PIPE AND PIPE ARCH

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
9/14/98 DATE
/S/ Rory L. Rhinehart
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

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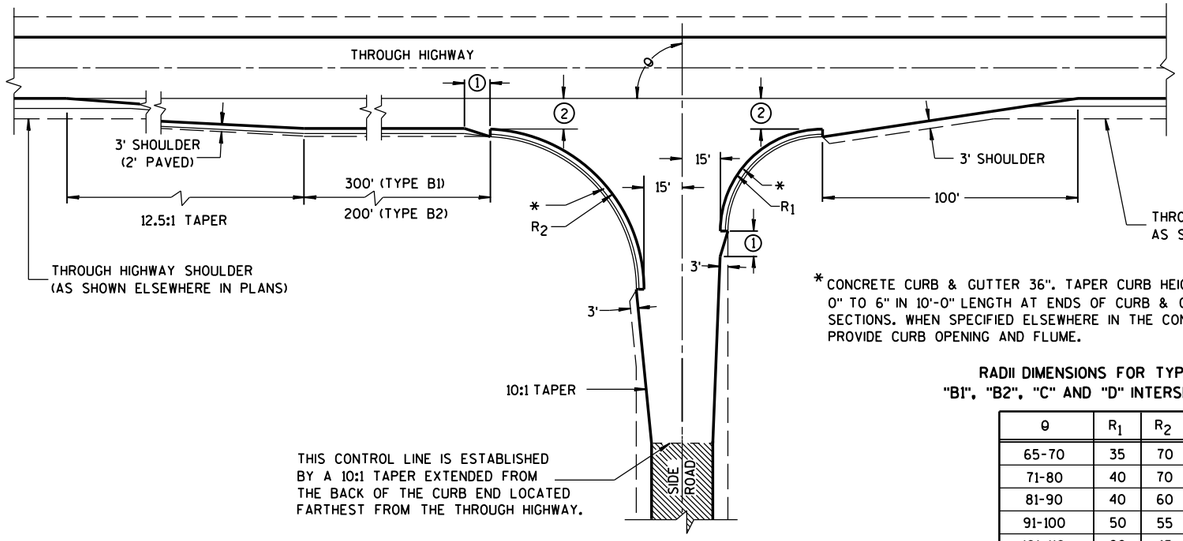
S.D.D. 8 F 10-1

6

S.D.D. 8 F 10-1

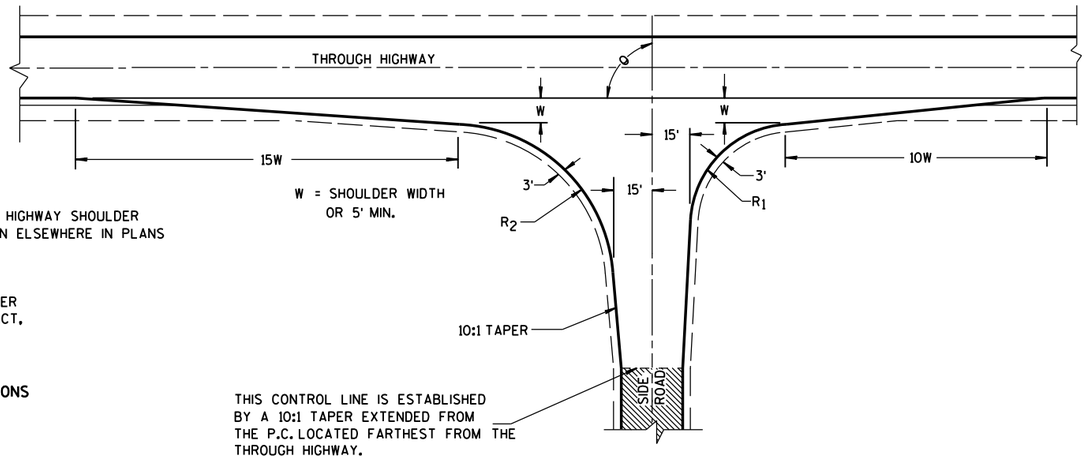


TYPE "B1" AND "B2"

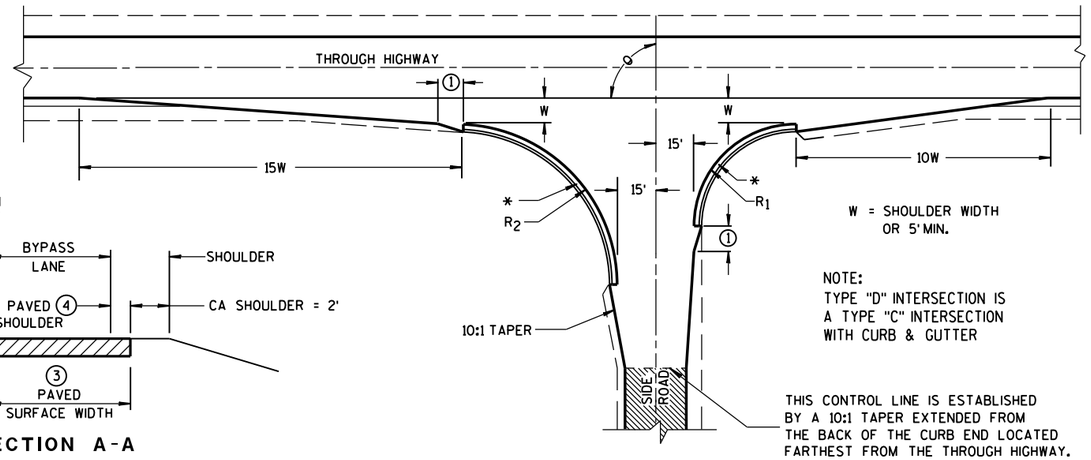
*CONCRETE CURB & GUTTER 36". TAPER CURB HEIGHT 0" TO 6" IN 10'-0" LENGTH AT ENDS OF CURB & GUTTER SECTIONS. WHEN SPECIFIED ELSEWHERE IN THE CONTRACT, PROVIDE CURB OPENING AND FLUME.

RADII DIMENSIONS FOR TYPES "B1", "B2", "C" AND "D" INTERSECTIONS

θ	R_1	R_2
65-70	35	70
71-80	40	70
81-90	40	60
91-100	50	55
101-110	60	45



TYPE "C"



TYPE "D"

GENERAL NOTES

DESIGNS MAY BE USED INTERCHANGEABLY IN COMBINATION OR SEPARATELY FOR ANY ONE COMPLETE INTERSECTION DEPENDING UPON INTERSECTION ANGLE AND SURFACING OF EACH APPROACH ROADWAY.

SIDE ROAD SURFACING NOTE

WHEN THE SIDE ROAD IS NOT PRESENTLY PAVED, PAVEMENT SHALL BE PLACED TO THE LIMITS SHOWN UNLESS OTHERWISE PROVIDED IN THE CONTRACT. WHERE THE CONSTRUCTION LIMITS ARE BEYOND THE PAVING LIMITS, CRUSHED AGGREGATE SURFACING SHALL BE PLACED BETWEEN THE PAVING LIMITS AND CONSTRUCTION LIMITS.

WHEN THE SIDE ROAD IS PRESENTLY PAVED, NEW PAVEMENT SHALL BE PLACED TO THE LIMITS OF DESIGN AS SHOWN AND BEYOND, IF NECESSARY, TO MEET EXISTING PAVEMENT.

WHEN THE SIDE ROAD IS THE CONSTRUCTION PROJECT, THE INTERSECTION SURFACING SHALL BE THE SAME AS FOR THE PROJECT.

EXISTING PAVED SURFACE

BYPASS LANE

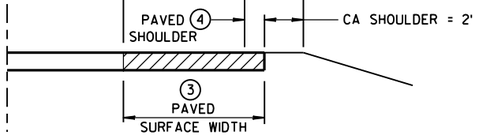
(1) 10-FT TYPICAL.

(2) 12-FT** PLUS ADDITIONAL WIDTH FOR BIKE LANE IF SHOWN ELSEWHERE IN THE PLAN.

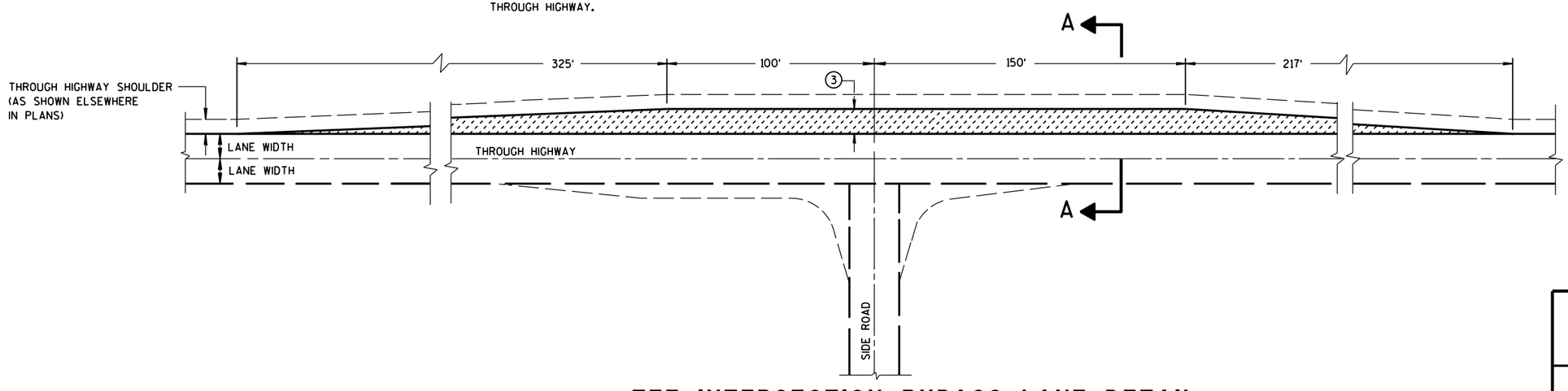
**10-FT MAY BE USED ON TYPE B2 ON RESURFACING PROJECTS IF SPECIFIED IN THE CONTRACT.

(3) BYPASS LANE PAVED SURFACE WIDTH OUTSIDE OF TRAVEL LANE
-ASPHALT = 12-FT PLUS PAVED SHOULDER WIDTH.
-PC CPNCRETE = 13-FT PLUS PAVED SHOULDER WIDTH.

(4) BYPASS LANE PAVED SHOULDER WIDTH = THE GREATER OF 1-FT OR THE PAVED SHOULDER WIDTH OF THE THROUGH HIGHWAY.



SECTION A-A
(SHOWING BYPASS LANE AND SHOULDER)



TEE INTERSECTION BYPASS LANE DETAIL

AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND "D" AND TEE INTERSECTION BYPASS LANE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

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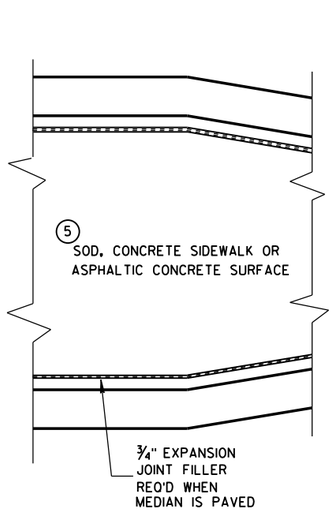
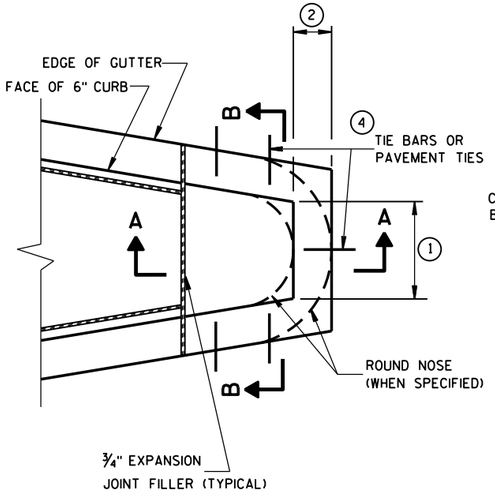
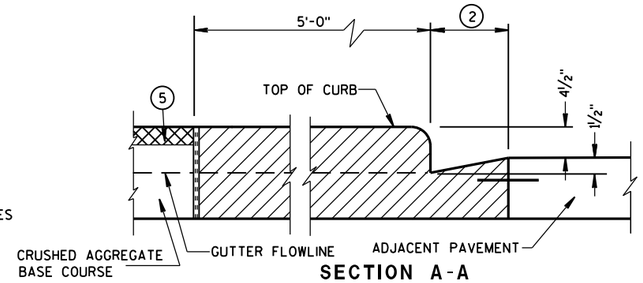
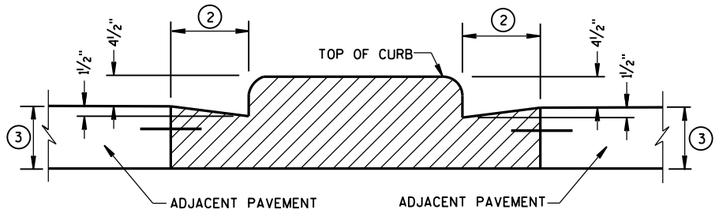
S.D.D. 9 A 1-13a







SECTION A-A



SECTION B-B

CONCRETE MEDIAN BLUNT NOSE DETAIL

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(1) SEE PLAN FOR MEDIAN NOSE WIDTH AND RADIUS (FOR ROUND NOSE ALTERNATE).

(2) WIDTH OF GUTTER TO MATCH EXISTING ADJACENT GUTTER OR AS SPECIFIED ELSEWHERE IN THE PLAN.

(3) DEPTH EQUAL TO ADJACENT PAVEMENT. ADJACENT PAVEMENT STRUCTURE DETAILS ARE SHOWN ON THE PLAN. TYPICAL OPTIONS ARE:

(1) NEW OR EXISTING CONCRETE PAVEMENT.

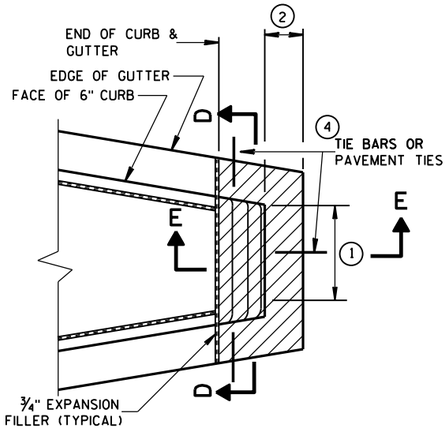
(2) ASPHALTIC CONCRETE PAVEMENT OVER NEW OR EXISTING CONCRETE BASE COURSE.

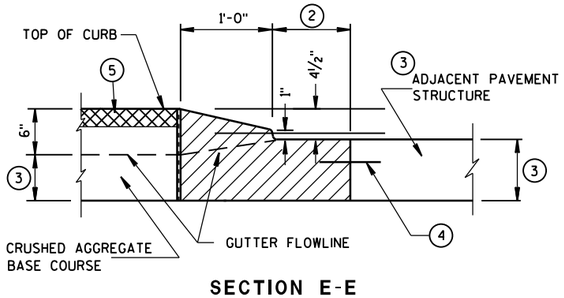
(3) ASPHALTIC CONCRETE PAVEMENT OVER CRUSHED AGGREGATE BASE COURSE.

(4) TIE BARS OR PAVEMENT TIES REQUIRED IN NEW CONCRETE PAVEMENT OR CONCRETE BASE COURSE. TIE BARS SHALL BE NO. 4 X 2'-0" SPACED AT 2'-0" C-C.

PAVEMENT TIES REQUIRED IN EXISTING CONCRETE BASE COURSE. PAVEMENT TIES SHALL BE NO. 6 X 1'-0" SPACED AT 3'-0" C-C INSTALLED ON A HORIZONTAL SKEW OF 6:1. THE DIRECTION OF SKEW SHALL ALTERNATE AFTER EVERY ONE OR TWO BARS.

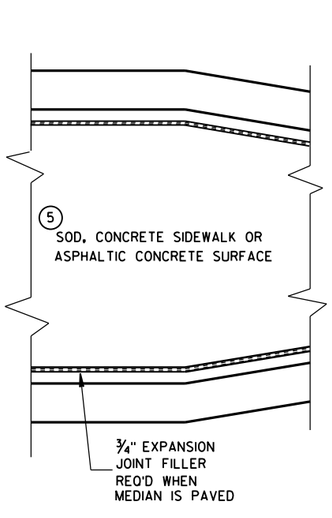
(5) SURFACE TYPE AND DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.

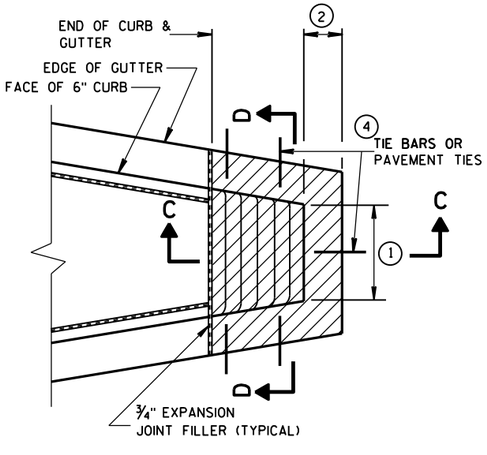


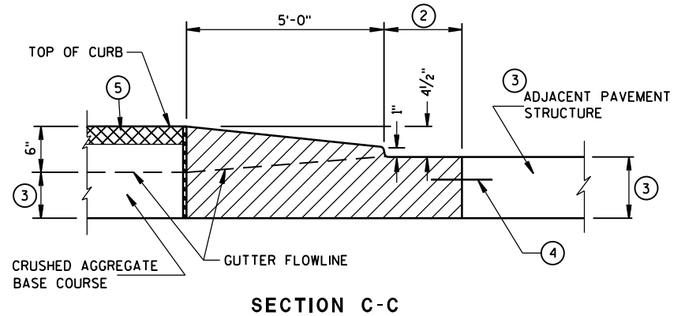


SECTION E-E

CONCRETE MEDIAN SLOPED NOSE TYPE 2

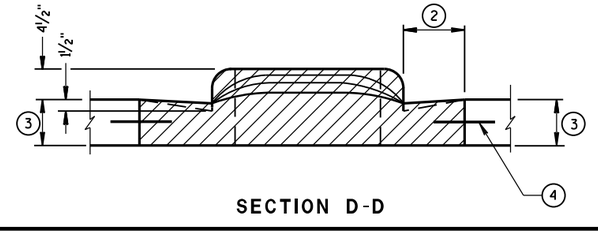






SECTION C-C

CONCRETE MEDIAN SLOPED NOSE TYPE 1



SECTION D-D

CONCRETE MEDIAN NOSE	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 6/8/2006 DATE FHWA	/S/ Jerry H. Zogg ROADWAY STANDARDS D ENGINEER

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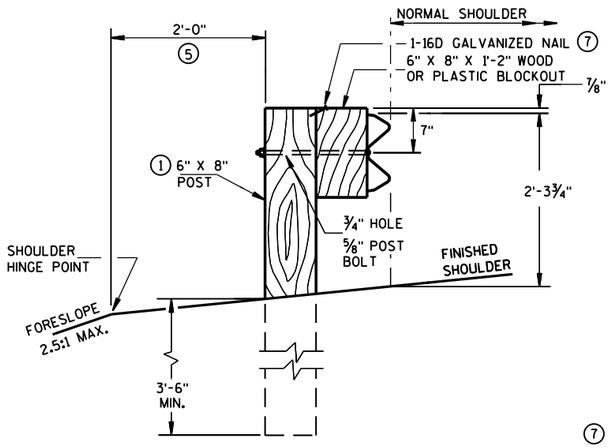
S.D.D. 11 B 2-2

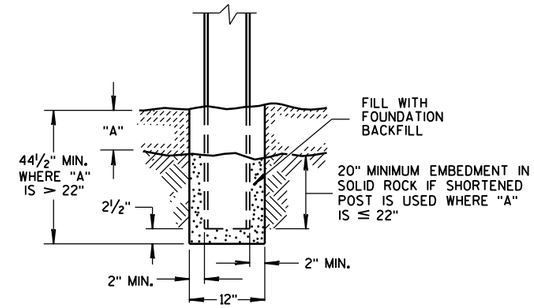
GENERAL NOTES

1. W6 X 9 OR W6 X 8.5 STEEL POSTS AND NOTCHED PLASTIC BLOCKOUTS ARE ACCEPTABLE ALTERNATIVES FOR 6" X 8" WOOD POSTS WITH WOOD OR PLASTIC BLOCKOUTS. USE APPROVED NOTCHED PLASTIC BLOCKOUTS WITH STEEL POSTS. APPROVED PLASTIC BLOCKOUT DESIGNS MAY VARY FROM THIS TYPICAL DETAIL WHEN USED IN CONJUNCTION WITH STEEL POSTS.
   DO NOT MIX STEEL POSTS AND WOOD POSTS IN A SINGLE INSTALLATION.
2. USE STRUCTURAL STEEL POSTS CONFORMING TO ASTM A 36. GALVANIZED POSTS ACCORDING TO AASHTO M 111. EITHER SET THE POSTS IN DRILLED HOLES OR DRIVE TO GRADE. REMOVE MUSHROOMING CAUSED BY DRIVING AND REPAIR DAMAGED SPELTER COATING ON GALVANIZED POSTS.
3. INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.
4. USE EITHER WOOD OR APPROVED PLASTIC BLOCKOUTS ON WOOD POSTS.
5. IF THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING, W BEAM (LHW).
6. IF ROCK IS ENCOUNTERED DURING EXCAVATION, THE ENGINEER MAY APPROVE USING A 12 INCH DIAMETER POST HOLE EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE APPROXIMATELY 2½ INCHES DEEP. CUT THE POSTS TO LENGTH AND PLACE IN YHE HOLE. BACKFILL WITH MATERIAL EXCAVATED FROM THE HOLE AND COMPACT ADEQUATEY.
7. WHEN USING STEEL POSTS AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

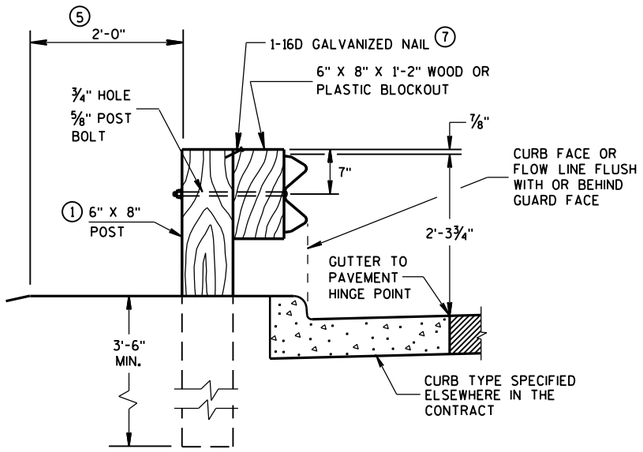
INSTALL BEAM GUARD SECTIONS AND ALL NECESSARY HARDWARE ACCORDING TO THE APPLICABLE PLAN AND CURRENT STANDARD AND SUPPLEMENTAL SPECIFICATIONS.
ALL DIMENSIONS ARE SUBJECT TO MANUFACTURER'S TOLERANCES EXCEPT WHERE ALLOWABLE TOLERANCES ARE SHOWN.



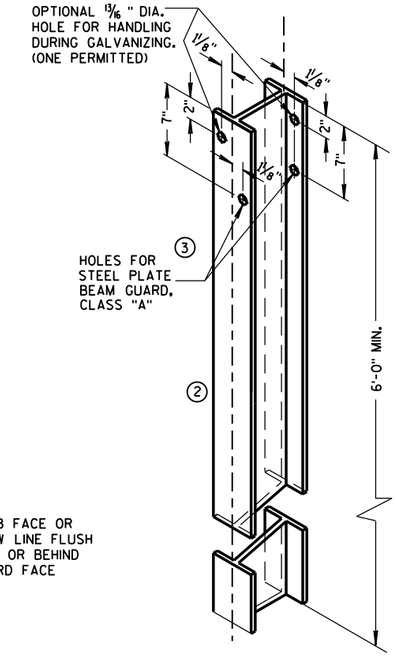
END VIEW
LOCATED ALONG A ROADWAY SHOULDER
STANDARD INSTALLATION



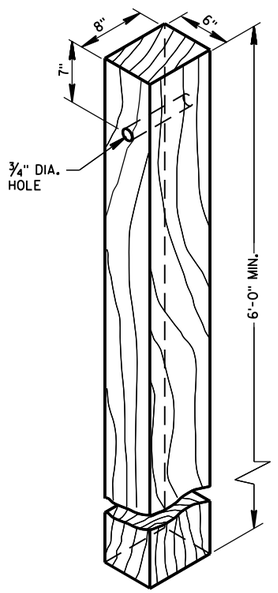
END VIEW
SETTING STEEL OR WOOD POST IN ROCK ⑥



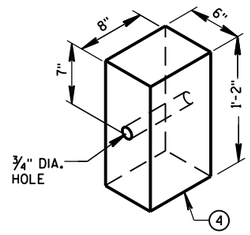
END VIEW
LOCATED ALONG A CURBED ROADWAY



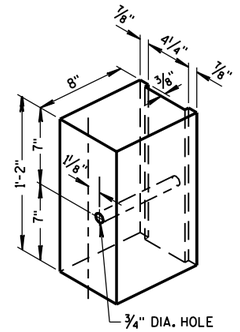
STEEL POST &
HOLE PUNCHING DETAIL
(W6 X 9) ①
ALL HOLES 13/16" DIAMETER EXCEPT AS NOTED



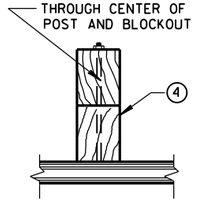
WOOD POST
(6"X8") NOMINAL



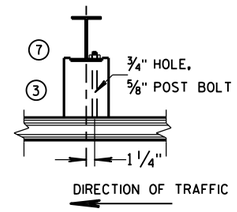
WOOD OR PLASTIC
BLOCKOUT FOR
WOOD POSTS



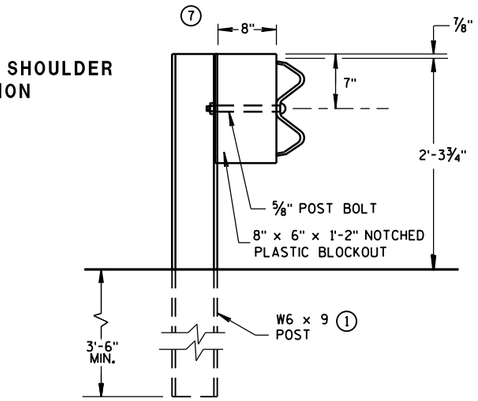
TYPICAL NOTCHED ①
PLASTIC BLOCKOUT
FOR STEEL POSTS



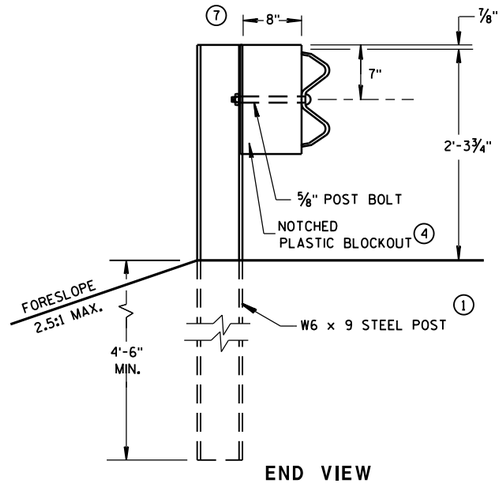
PLAN VIEW
WOOD POST, BLOCKOUT & BEAM



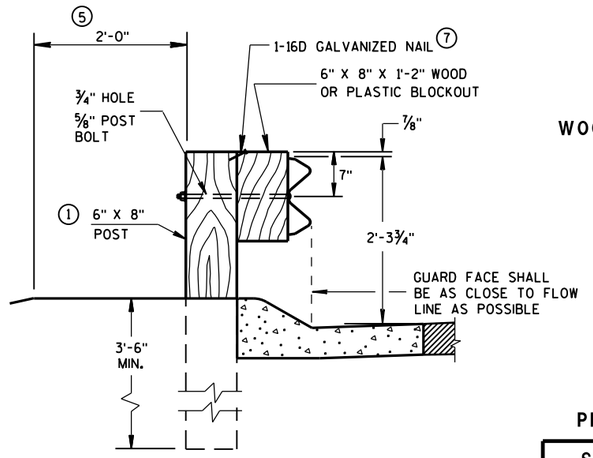
PLAN VIEW
STEEL POST, NOTCHED
PLASTIC BLOCKOUT & BEAM



END VIEW
STEEL POST & NOTCHED
PLASTIC BLOCKOUT ALTERNATIVE
STANDARD INSTALLATION



END VIEW
LONGER POST AT HALF
POST SPACING W BEAM
(LHW)



END VIEW
LOCATED ALONG A
MOUNTABLE CURBED ROADWAY

TYPICAL INSTALLATION OF STEEL PLATE BEAM GUARD

STEEL PLATE BEAM GUARD,
CLASS "A"
INSTALLATION & ELEMENTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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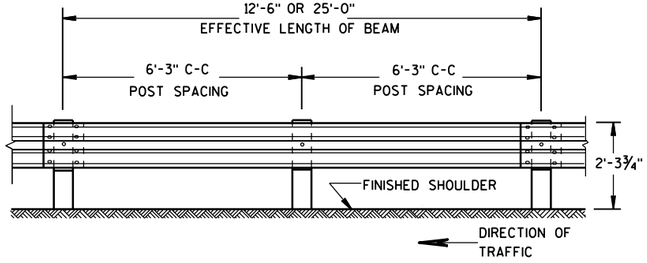
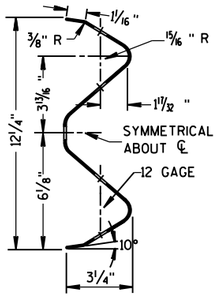
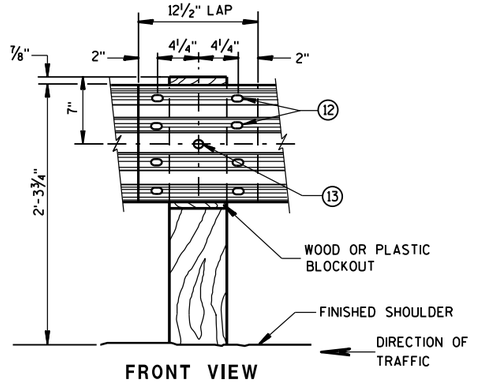


FRONT VIEW

POST SPACING STANDARD INSTALLATION



SECTION THRU W BEAM



FRONT VIEW
BEAM SPLICE AT WOOD POST
AND POST MOUNTING DETAIL

GENERAL NOTES

(8) PROVIDE SILVER REFLECTIVE SHEETING ON ALL REFLECTORS EXCEPT THOSE LOCATED ALONG THE LEFT EDGE OF ONE-WAY ROADWAYS, WHICH SHALL BE PROVIDED WITH YELLOW REFLECTIVE SHEETING. SHEETING IS TYPE H. SEE STANDARD SPECIFICATION 637.

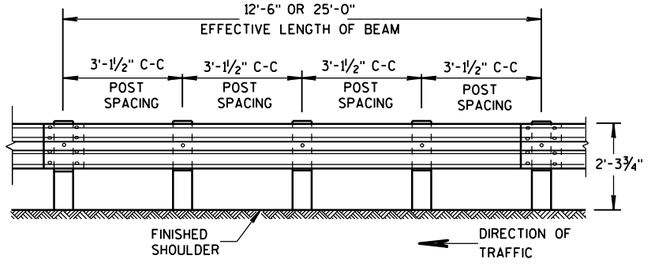
(9) DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

(10) REVERSE EVERY OTHER REFLECTOR FOR 2-WAY VISIBILITY. THE CONTRACTOR MAY FURNISH TWO-SIDED REFLECTORS IN LIEU OF ONE-SIDED REFLECTORS.

(11) PROVIDE AN ANGLE OF BEND OF 90° ± 1° FOR TWO-SIDED REFLECTORS.

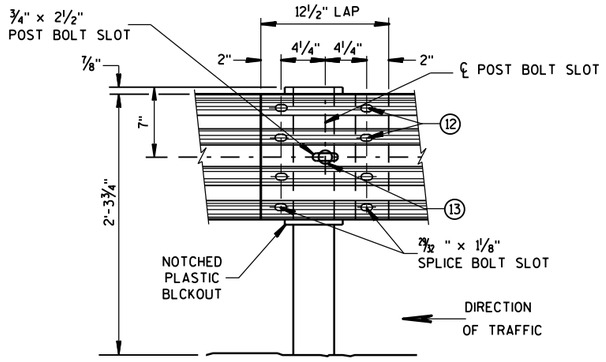
(12) 8 -⅝" ϕ X 2" BUTTON HEAD BOLTS WITH OVAL SHOULDERS & RECESS NUTS.

(13) ⅝" DIA. BUTTON HEAD BOLT AND RECESS NUT WITH ⅝" DIA. F844 FLAT WASHER UNDER NUT.



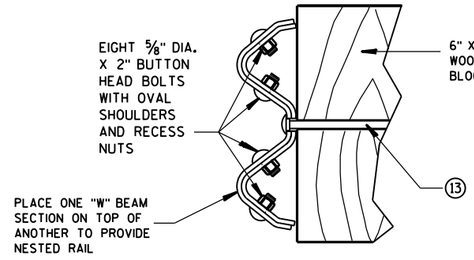
FRONT VIEW

POST SPACING FOR LONGER POST AT HALF POST SPACING W BEAM (LHW)



FRONT VIEW
BEAM SPLICE AT STEEL POST

TYPICAL SPLICING DETAILS OF STEEL PLATE BEAM GUARD

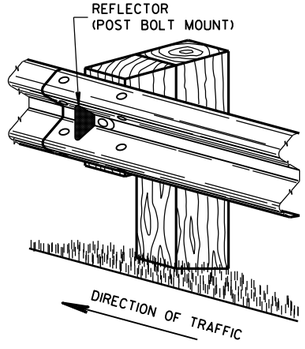


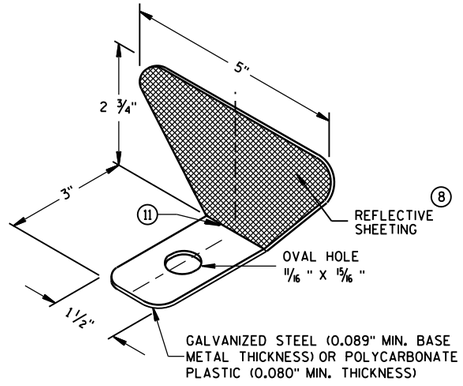
NESTED W BEAM (NW)

USE ALL OTHER STANDARD BEAM GUARD DETAILS FOR CONSTRUCTING NESTED W BEAM (NW)

REFLECTOR SPACING (9)

	BEAM GUARD LENGTH	REFLECTOR SPACING	NO. SURFACES REFLECTORIZED	MIN. NO. REFLECTORS
ONE WAY TRAFFIC	< 200'	50' C-C	1	3
	> 200'	100' C-C	1	
TWO WAY TRAFFIC	< 200'	25' C-C	1 (10)	6
	> 200'	50' C-C	1	
TWO WAY TRAFFIC	< 200'	50' C-C	2 (11)	3
	> 200'	100' C-C	2	





ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION (8)

STEEL PLATE BEAM GUARD,
CLASS "A",
INSTALLATION & ELEMENTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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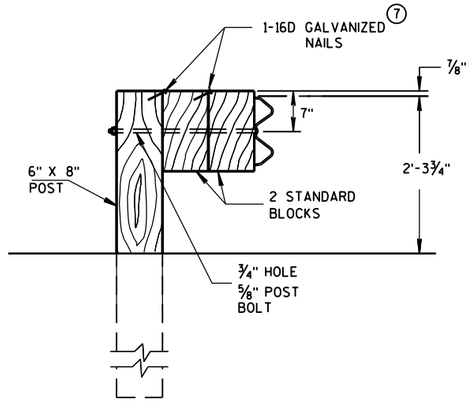
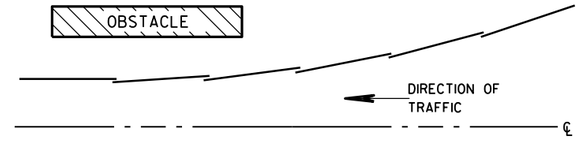
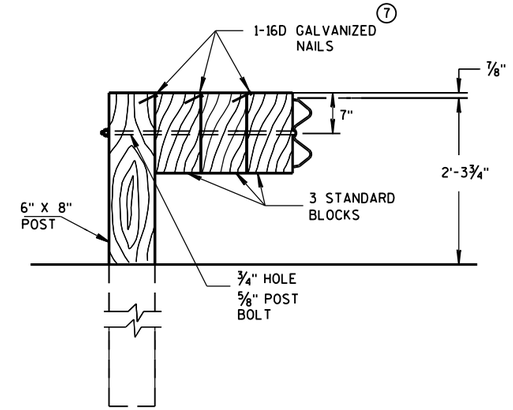


DETAIL FOR DOUBLE BLOCKS

THE NUMBER OF DOUBLE BLOCK POSTS WITHIN A BARRIER RUN IS UNLIMITED

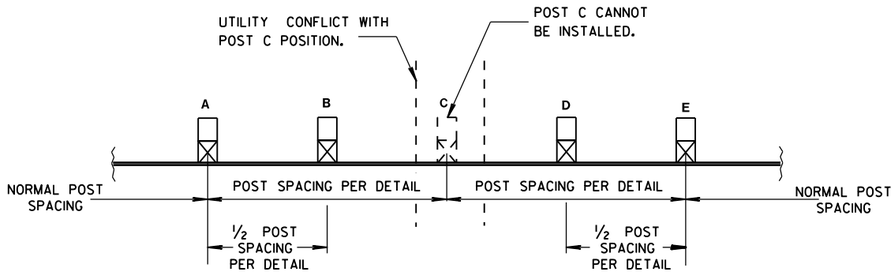


PLAN VIEW
BEAM LAPPING DETAIL



DETAIL FOR TRIPLE BLOCKS

TRIPLE BLOCK DETAIL IS LIMITED TO ONE LOCATION WITHIN A BEAM GUARD RUN.



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION

NOTES: USE DOUBLE OR TRIPLE BLOCKS WHEN UNDERGROUND OBSTACLES PREVENT THE POST FROM BEING INSTALLED.

DO NOT USE EXTRA BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June 2016
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

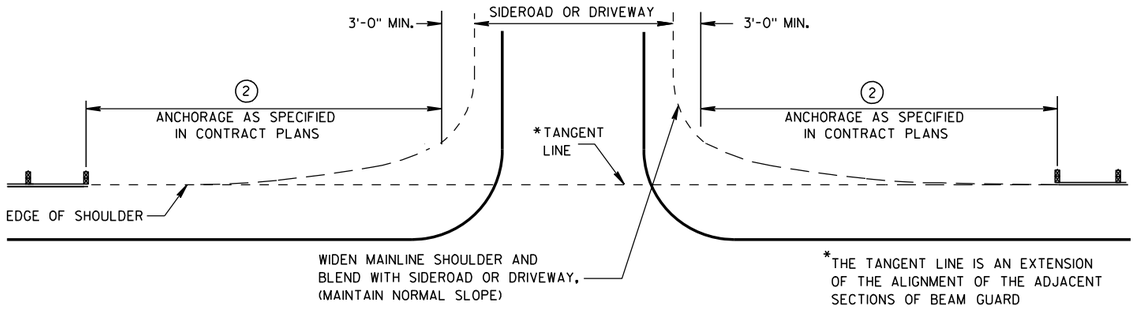
FHWA

6

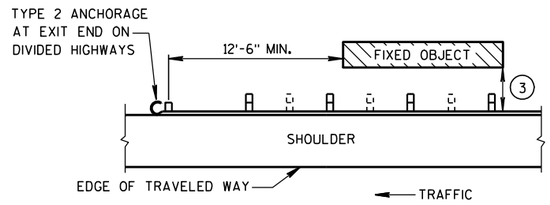
S.D.D. 14 B 15-9c

6

S.D.D. 14 B 15-9c



BEAM GUARD AT SIDEROADS OR DRIVEWAYS



BEAM GUARD AT OBSTACLES EXIT END - ONE WAY TRAFFIC

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE PERTINENT STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

W6 X 9 OR W6 X 8.5 STEEL POSTS WITH NOTCHED PLASTIC BLOCKOUTS ARE ACCEPTABLE ALTERNATIVES FOR 6" X 8" WOOD POSTS WITH WOOD OR PLASTIC BLOCKOUTS. USE APPROVED NOTCHED PLASTIC BLOCKOUTS WITH STEEL POSTS.

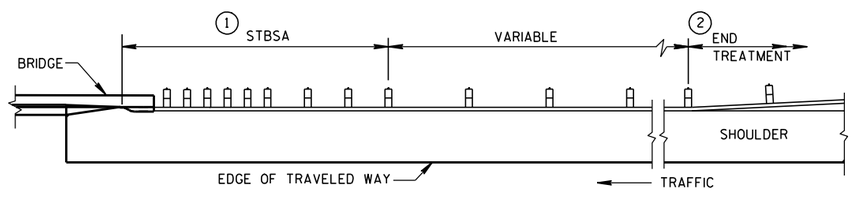
THE LOCATIONS AND LENGTHS OF BEAM GUARD ARE SHOWN ELSEWHERE IN THE PLAN.

(1) STEEL THRIE BEAM STRUCTURAL APPROACH (STBSA) - SEE CURRENT SDD 14B20.

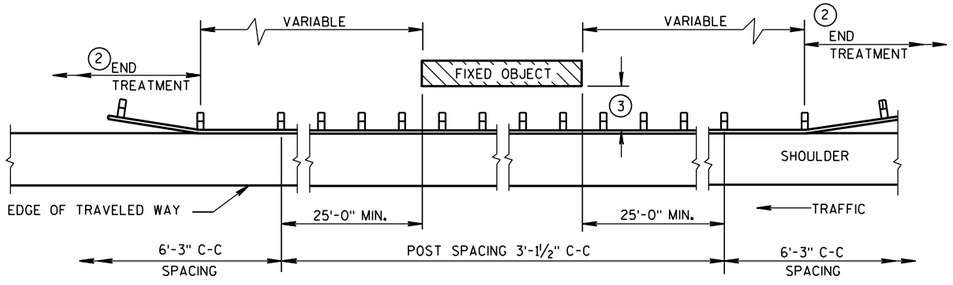
(2) USE AN APPROVED END TREATMENT FOR THE TRAFFIC APPROACH SIDE OF BRIDGE/OBSTACLES. USE TYPE 2 ANCHORAGE ONLY AT THE DOWNSTREAM ENDS OF BEAM GUARD LOCATED ALONG ROADWAYS WITH ONE WAY TRAFFIC.

(3)

MINIMUM LATERAL DISTANCE FROM FACE OF BEAM GUARD TO FIXED OBJECT	POST SPACING
3'-6"	3' - 1½"
4'-6"	6' - 3"

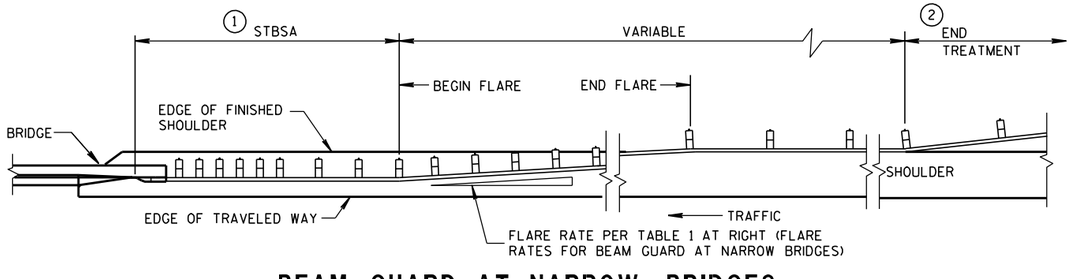


BEAM GUARD AT FULL WIDTH BRIDGES



BEAM GUARD AT OBSTACLES - TWO WAY TRAFFIC

(RAIL TO OBSTACLE CLEARANCE 3'-6" TO 4'-6")



BEAM GUARD AT NARROW BRIDGES
(FLARED TO SHOULDER EDGE, THEN PARALLEL TO ROADWAY)

TABLE 1
FLARE RATES FOR BEAM GUARD AT NARROW BRIDGES

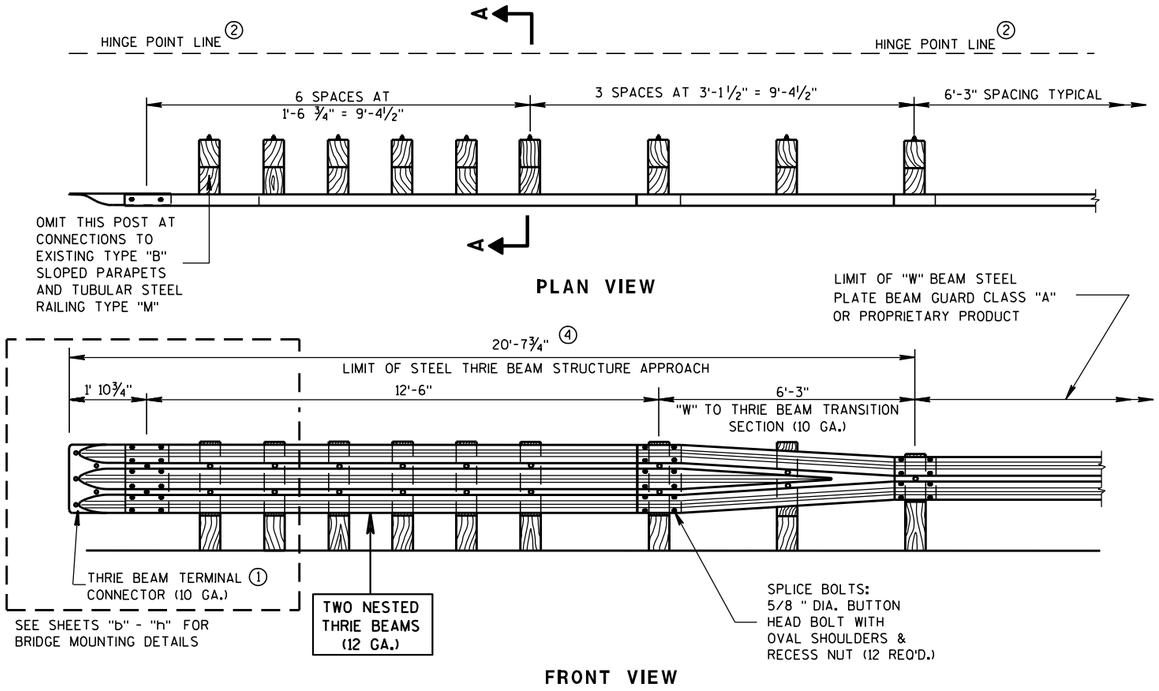
POSTED SPEED (MPH)	FLARE RATE
25	13:1
30	15:1
35	16:1
40	18:1
45	21:1
50	24:1
55	26:1
65	30:1

STEEL PLATE BEAM GUARD CLASS "A" AT BRIDGES, OBSTACLES AND SIDEROADS/DRIVEWAYS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
8-21-07 DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6
S.D.D. 14 B 18-6a



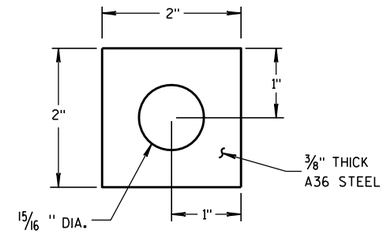


PLATE WASHER DETAIL

GENERAL NOTES

BOLT THE THRIE BEAM TO ALL POSTS AND BLOCKOUTS. DRILL OR PUNCH BOLT HOLES IN THE BEAM IF THE POST SPACING IS LESS THAN 6'-3".

DO NOT USE STEEL POSTS AND NOTCHED PLASTIC BLOCKOUTS IN THE STEEL THRIE BEAM STRUCTURAL APPROACH AND THE TRANSITION SECTION OF STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATIONS.

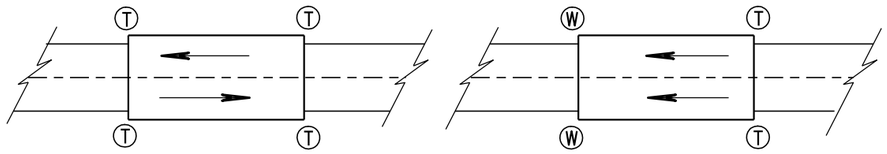
IF ROCK IS ENCOUNTERED, REMOVE ROCK TO FULL DEPTH OF POST PLUS 2 1/2" , AND 12" DIAMETER AROUND POST. SEE 14B15 FOR MORE DETAILS.

① BRIDGE RAILING TYPE "W" DOES NOT REQUIRE A TERMINAL CONNECTOR.

② MINIMUM EMBEDMENT SHALL BE 4'-0". WHERE EXISTING CONDITIONS DO NOT PERMIT THE APPROPRIATE EARTHWORK SHOWN ON THE PLAN TYPICAL SECTIONS OR DETAILS, THE ENGINEER MAY ALLOW THE REDUCTION OR ELIMINATION OF THE 2 FOOT DISTANCE TO THE HINGE POINT. OTHERWISE BUILD AS THE PLAN SHOWS OR AS THE ENGINEER DIRECTS. IF THE 2 FOOT DISTANCE TO THE HINGE POINT IS REDUCED OR ELIMINATED, INCREASE THE POST EMBEDMENT DEPTH TO 4'-6" OR MORE.

③ POST BOLTS ARE 5/8" DIAMETER ASTM A307 BUTTON HEAD BOLT. A POST BOLT REQUIRES A 5/8" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX AND A 5/8" DIAMETER F844 FLAT WASHER. LENGTH OF POST BOLT MAY VARY.

④ ALL WOOD POSTS MUST BE 6" X 8" AND AT LEAST 7'-0" LONG.



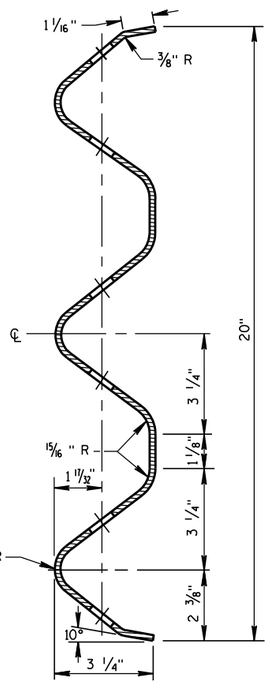
TWO WAY TRAFFIC

ONE WAY TRAFFIC

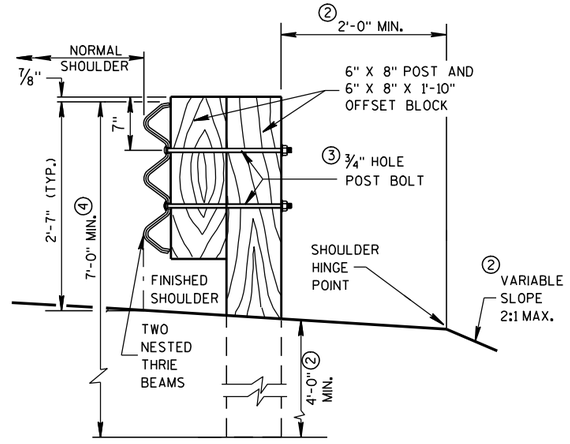
T THRIE BEAM CONNECTION

W W-BEAM CONNECTION WHEN REQUIRED

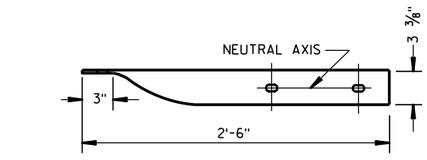
TYPICAL LOCATIONS OF THRIE BEAM AND W-BEAM CONNECTIONS TO BRIDGE

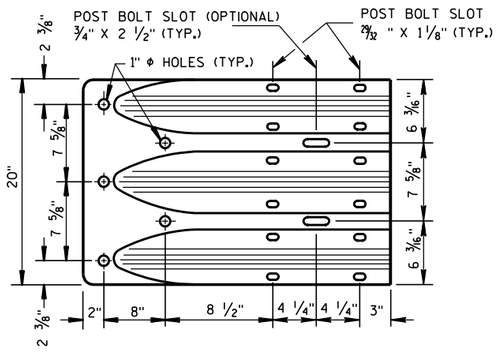


SECTION THRU THRIE BEAM RAIL ELEMENT

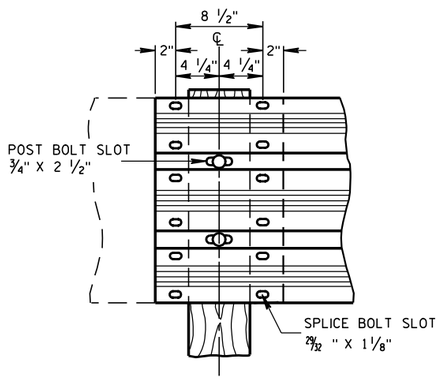


SECTION A-A





THRIE BEAM TERMINAL CONNECTOR



THRIE BEAM SPLICE

STEEL THRIE BEAM STRUCTURE APPROACH

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

8/31/2012
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

FHWA

BILL OF MATERIALS

NOTE NO.	QTY.	DESCRIPTION
(1)	4	WOOD BREAKAWAY TERMINAL POST: 5½" X 7½" X 3'-9"
(2)	**	STEEL TUBE: OPTION 1 - QUANITY OF 4 TS 8" X 6" X 0.188", 4'-6" LONG OR OPTION 2 - QUANITY OF 2 TS 8" X 6" X 0.188", 6'-0" AND 2 TS 8" X 6" X 0.188", 4'-6" LONG
(3)	2	SOIL PLATE: 2'-0" X 1'-6" X ¼" **
(4)	4	WOOD BREAKAWAY CRT POST: 6" X 8" X 6'-0"
(5)	6	WOOD OFFSET BLOCKS: 6' X 8" X 1'-2"
(6)	1	PIPE SLEEVE: 2" X 5 ½" STANDARD PIPE
(7)	1	BEARING PLATE
(8)	1	BCT CABLE ASSEMBLY
(9)	1	CABLE ANCHOR BOX
(10)	1	STRUT & YOKE
(11)	1	STEEL PLATE BEAM, END PANEL 12 GA. 13'-6½" LONG FOR SKT-350, ET-2000 AND ET-2000 PLUS
(12)	3	STEEL PLATE BEAM: 12 GA. 13'-6½"
(13)	1	ET-2000/ET-2000 PLUS GUARDRAIL EXTRUDER OR SKT-350 IMPACT HEAD: AS FURNISHED BY MANUFACTURER
(14)	1	0.040" ALUMINUM SHEET WITH REFLECTIVE SHEETING TYPE F PER SECTION 637 OF THE STANDARD SPECIFICATIONS
(15)	1	E.A.T. MARKER POST

GENERAL NOTES

FOLLOW MANUFACTURE'S BOLTING RECOMMENDATIONS. IF NONE ARE AVAILABLE, INSTALL ⅝" ø X 1'-6" BUTTON HEAD BOLTS AT ALL POSTS EXCEPT FOR POST 1.

(A) THE SLOPE IN THE AREA BOUNDED BY THE GRADELINE, THE HINGE POINT LINE (HPL), AND THE CLEAR ZONE LIMITS (CZL) SHALL BE 4:1 OR FLATTER.

(B) AFTER FINAL ASSEMBLY, RECHECK CABLE TO BE SURE IT IS TAUT AND HAS NOT RELAXED.

(C) THE 13 SLOT FIRST RAIL PANEL MAY BE USED IN LIEU OF THE 3 SLOT RAIL PANEL ON SKT-350 ONLY.

(D) THE TOP OF THE STEEL TUBE ON POSTS 1 THROUGH 4 SHALL NOT BE MORE THAN 3" ABOVE THE FINISH GROUND ELEVATION.

(E) THE CENTER OF THE UPPER 3½" DIAMETER HOLE ON POST 5 THROUGH 8 SHALL BE ¾" ABOVE THE FINISHED GROUND LINE.

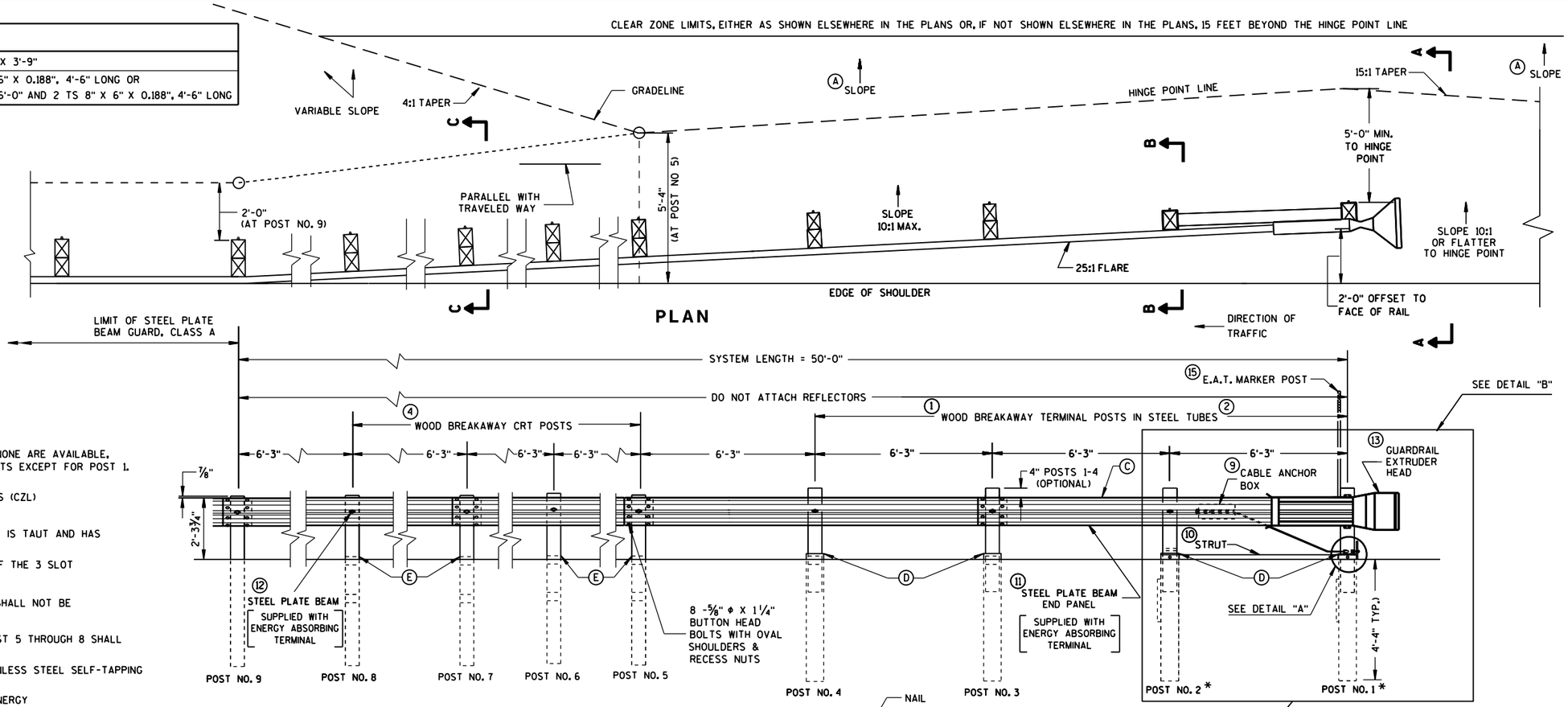
(F) ATTACH ALUMINUM SHEET TO E.A.T. HEAD USING 4 STAINLESS STEEL SELF-TAPPING SCREWS. ONE SCREW PER CORNER.

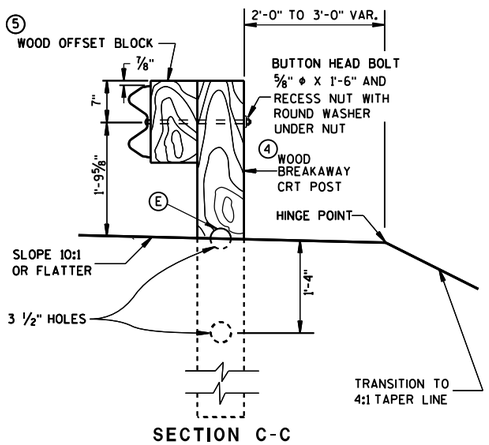
STEEL POSTS SHALL NOT BE ALLOWED FOR USE WITH ENERGY ABSORBING TERMINALS.

DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

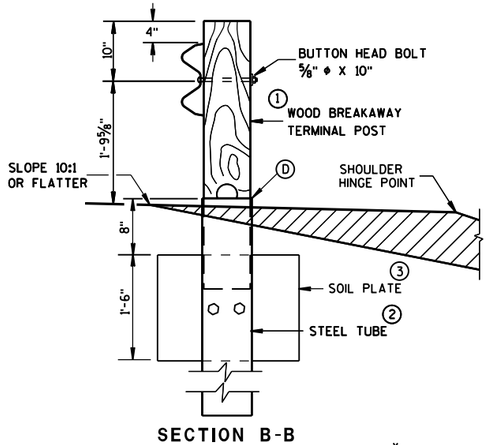
* DO NOT ATTACH BLOCKOUTS TO POSTS 1 AND 2.

** SDD SHOWS 4 - 54 INCH STEEL TUBES WITH SOIL PLATES INSTALLED ON POST 1 AND POST 2. POST 3 AND 4 DO NOT NEED SOIL PLATES. AN ALTERNATIVE INSTALLATION WOULD CONSIST OF 2 - 72 INCH STEEL TUBES ON POST 1 AND POST 2 AND 54 INCH SOIL TUBES ON POSTS 3 AND 4. THE ALTERNATIVE INSTALLATION DOES NOT REQUIRE SOIL PLATES.

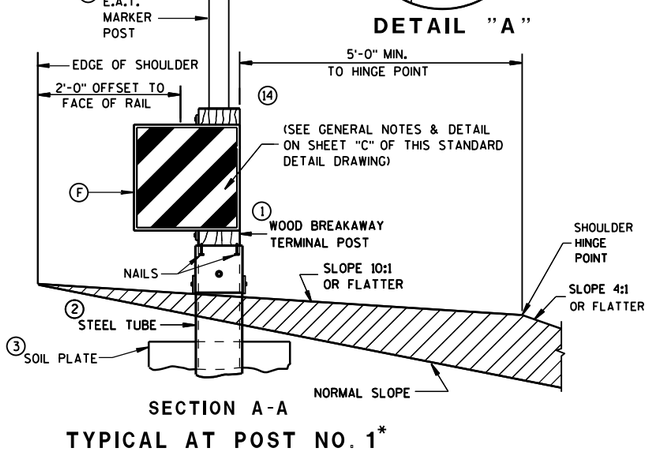




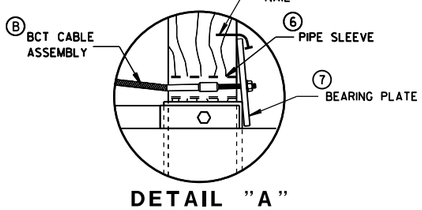
SECTION C-C
TYPICAL AT POST NOS. 6, 8



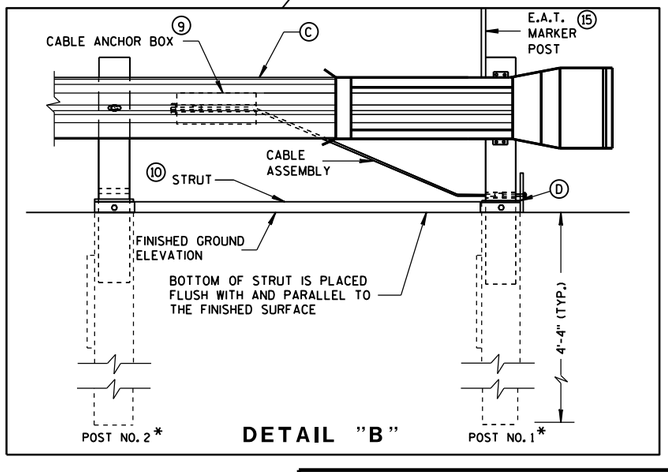
SECTION B-B
TYPICAL AT POST NO. 2*



SECTION A-A
TYPICAL AT POST NO. 1*



DETAIL "A"

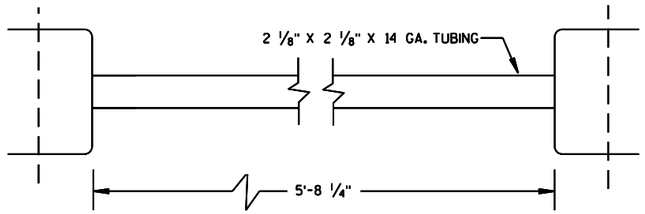


DETAIL "B"

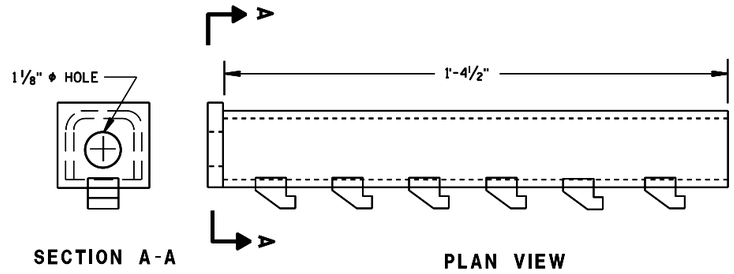
STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

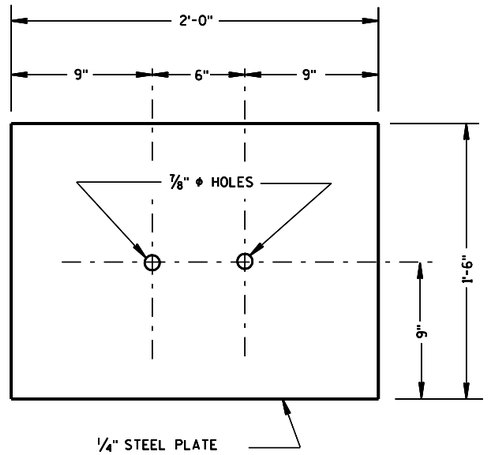
6
S.D.D. 14 B 24-8a



⑩ STRUT DETAIL (SKT-350)

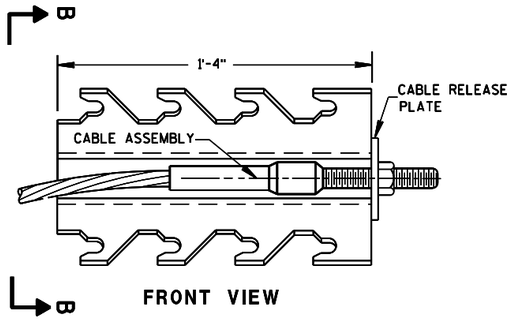


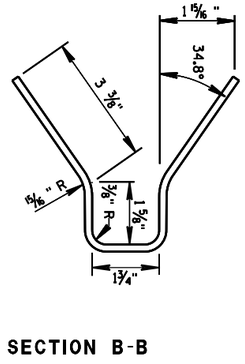
⑨ CABLE ANCHOR BOX (ET-2000/ET-2000 PLUS)



③ SOIL PLATE

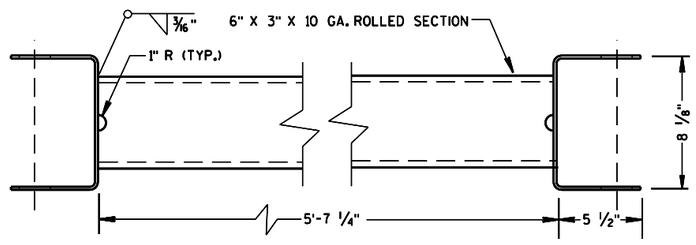
(SKT-350, ET-2000/ET-2000 PLUS)





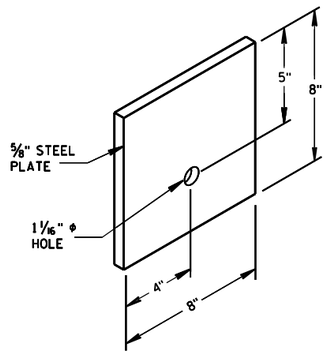
⑨ CABLE ANCHOR BOX (SKT-350)

(SKT-350)



⑩ STRUT DETAIL (ET-2000/ET-2000 PLUS)

(ET-2000/ET-2000 PLUS)



⑦ STEEL BEARING PLATE

(SKT-350, ET-2000/ET-2000 PLUS)

6

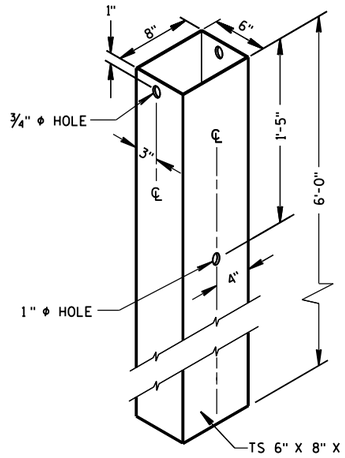
6

S.D.D. 14 B 24-8b

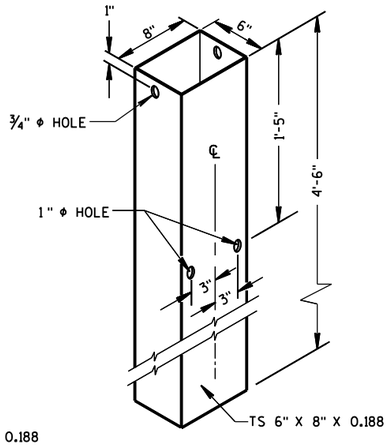
S.D.D. 14 B 24-8b

STEEL PLATE BEAM GUARD
ENERGY ABSORBING TERMINAL

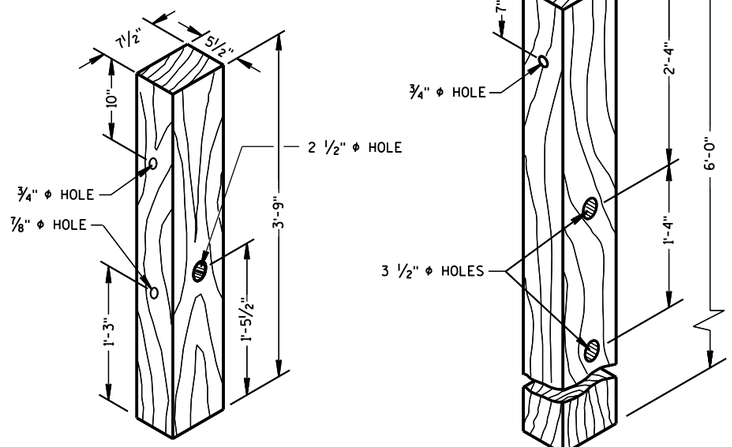
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI



② 72" STEEL TUBE
(POSTS NO. 1-4



② 54" STEEL TUBE
(POSTS NO. 1-4



① TERMINAL POST
(POSTS NO. 1-4

④ CRT POST
(POSTS NO'S 5-8

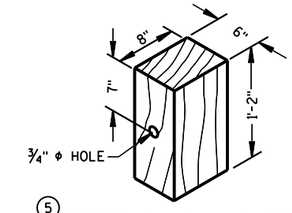
WOOD BREAKAWAY POSTS

GENERAL NOTES

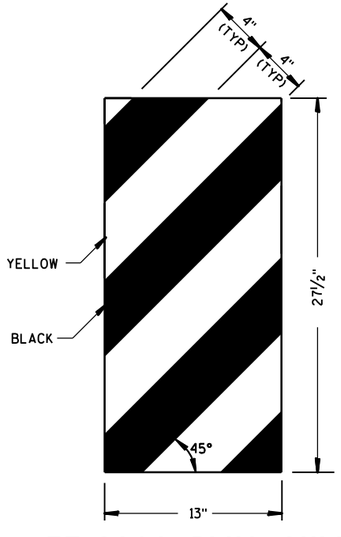
WHEN ROCK IS ENCOUNTERED DURING EXCAVATION, A 12 INCH DIA. POST HOLE EXTENDING 20 INCHES DEEP INTO THE ROCK MAY BE USED IF APPROVED BY THE ENGINEER. GRANULAR MATERIAL SHALL BE PLACED IN THE BOTTOM OF THE HOLE APPROXIMATELY 2 ½" INCHES DEEP TO PROVIDE DRAINAGE. THE SOIL TUBES SHALL BE FIELD CUT TO LENGTH, PLACED IN THE HOLE AND BACKFILLED WITH ADEQUATELY COMPACTED MATERIAL EXCAVATED FROM THE HOLE.

SEE APPROVED PRODUCTS LIST FOR ACCEPTABLE E. A. T. MARKER POST.

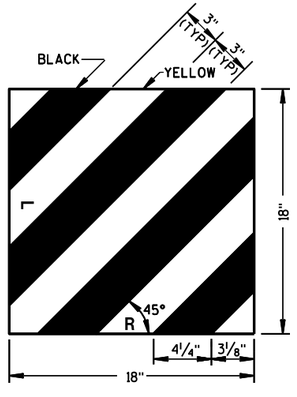
(G) ½" DIA. X 3" LAG BOLT WITH WASHER.



⑤ WOOD OFFSET BLOCK
REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2

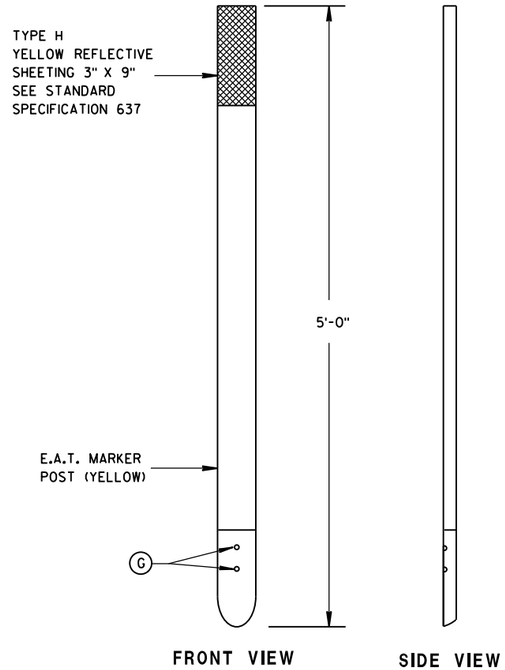


ET-2000 PLUS ONLY



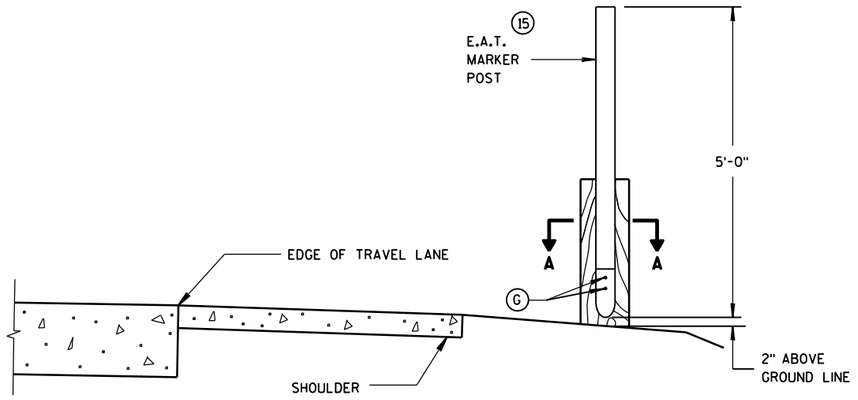
ET-2000 AND SKT-350

⑭ REFLECTIVE SHEETING DETAILS

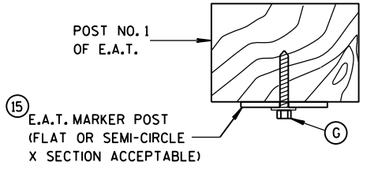


FRONT VIEW SIDE VIEW

⑮ E.A.T. MARKER POST



TYPICAL INSTALLATION OF E.A.T.
MARKER POST BACKSIDE OF POST NO. 1
(E.A.T. AND RAIL REMOVED FOR CLARITY)



SECTION A-A

STEEL PLATE BEAM GUARD
ENERGY ABSORBING TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2014 — DATE
/S/ Jerry H. Zoda — ROADWAY STANDARDS ENGINEER
FHWA

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S.D.D. 14 B 24-8c

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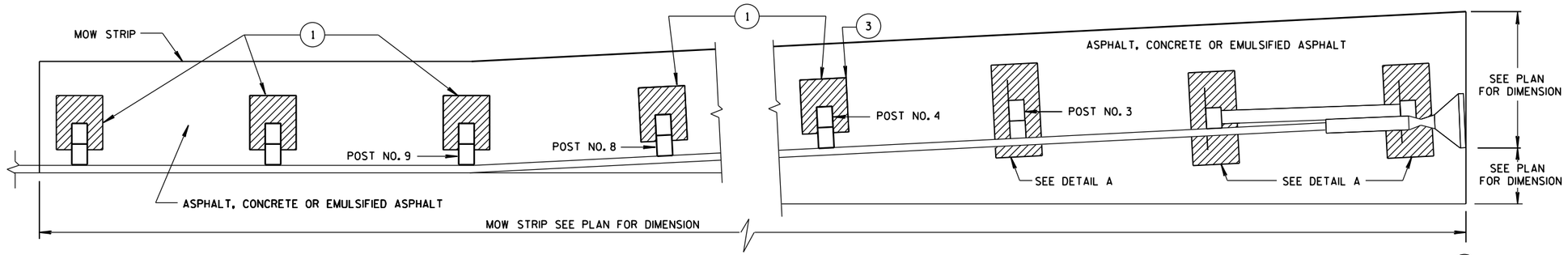
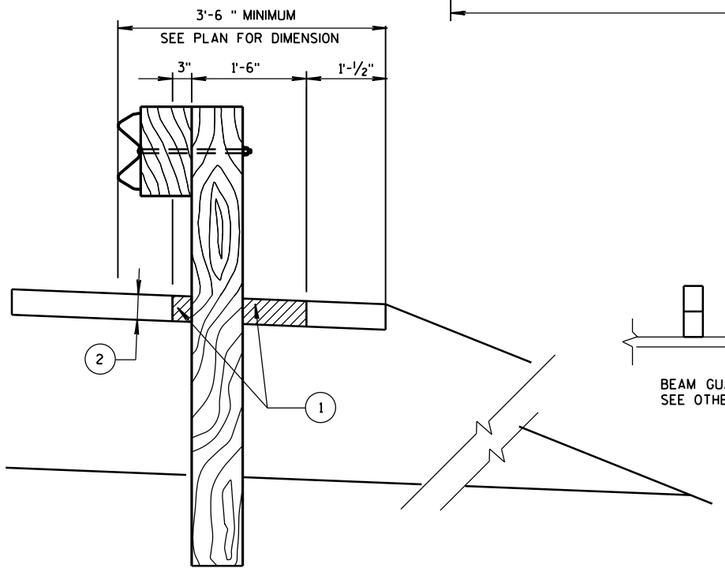
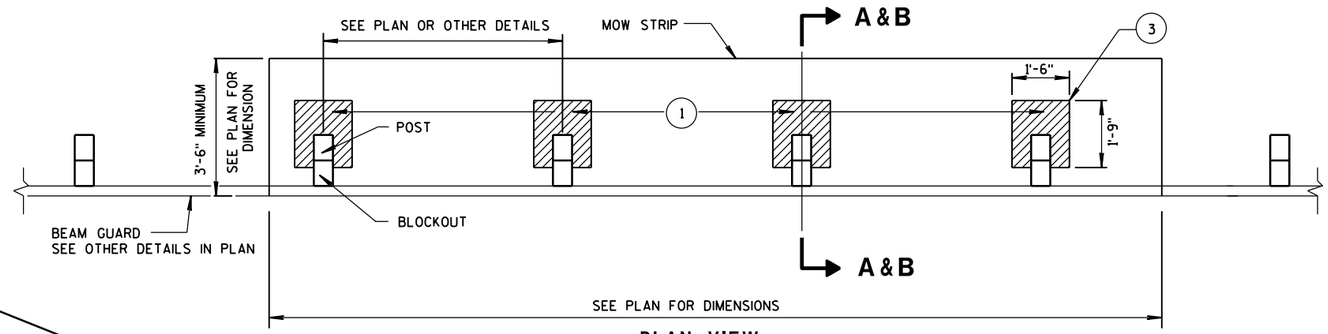


PLAN VIEW

MOW STRIP LAYOUT FOR ENERGY ABORBING TERMINAL

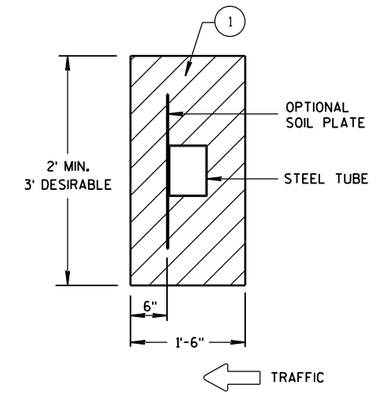


SECTION A-A

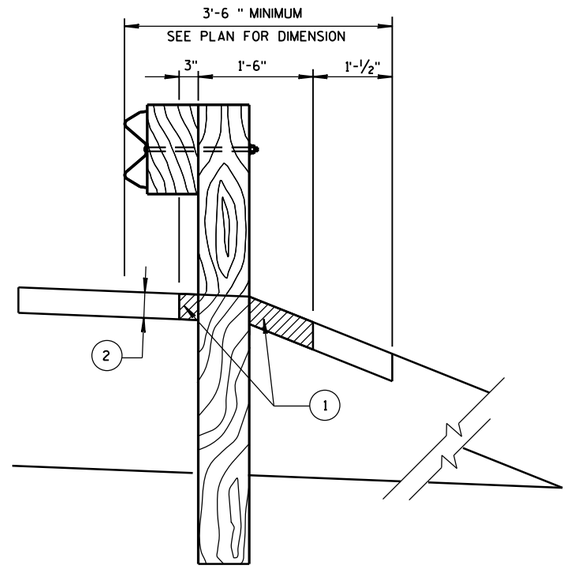


PLAN VIEW

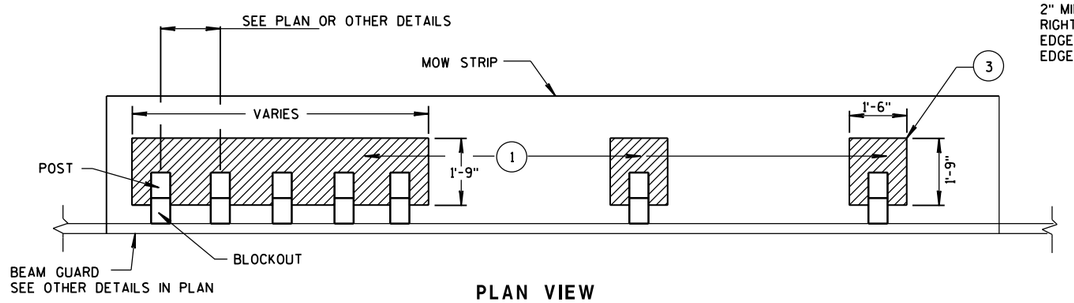
MOW STRIP FOR TYPICAL BLOCKOUT LAYOUT



DETAIL A

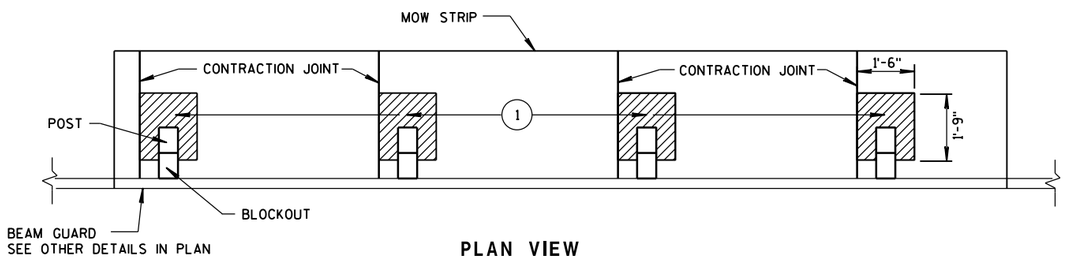


SECTION B-B



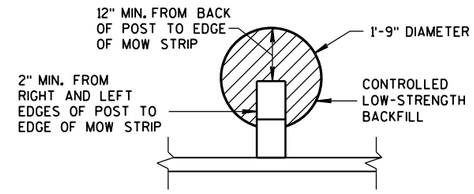
PLAN VIEW

MOW STRIP FOR TIGHT SPACING LAYOUT



PLAN VIEW

JOINT PLACEMENT FOR CONCRETE MOW STRIP



ALTERNATIVE HMA
MOW STRIP DESIGN

(1) CONTROLLED LOW-STRENGTH BACKFILL OR EMULSIFIED ASPHALT.

(2) DEPTH OF MOW STRIP:
ASPHALT - 4"
CONCRETE - 4"
EMULSIFIED ASPHALT - 1" OR LESS

(3) FOR EMULSIFIED ASPHALT MOW STRIP LEAVE OUTS NOT REQUIRED. (TYPICAL FOR ALL POSTS.)

GUARDRAIL MOW STRIP

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2014
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

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① WOOD OR STEEL POSTS (w6X9 OR w6X8.5) MAY BE USED. DO NOT INTERMIX WOOD AND STEEL POSTS. INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.

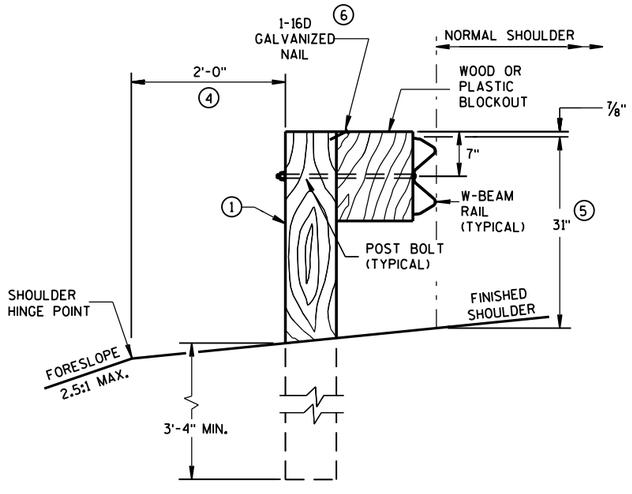
② USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.

③ IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2½ INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS TO BE FREE OF LARGE ROCKS.

④ WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).

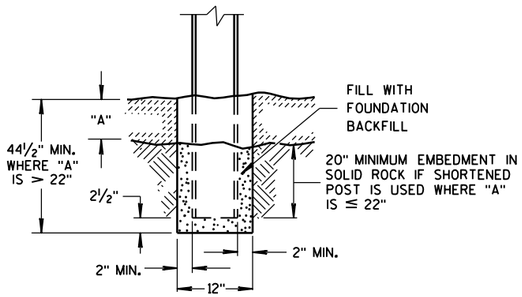
⑤ FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ± 1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27¾" TO 32".

⑥ WHEN USING STEEL POST AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.



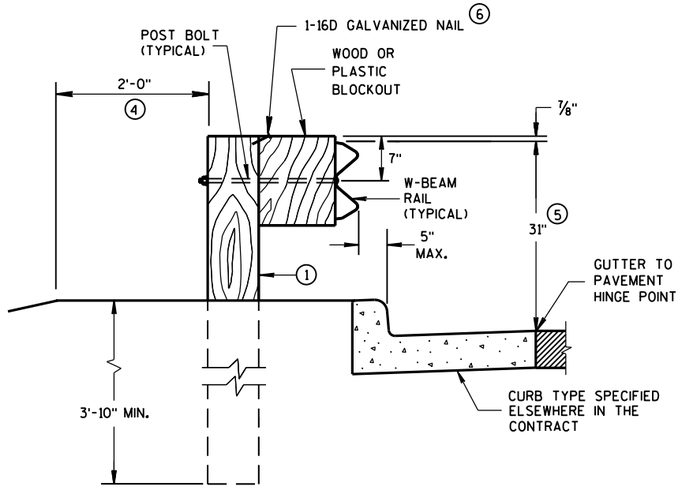
END VIEW

LOCATED ALONG A ROADWAY SHOULDER
STANDARD INSTALLATION



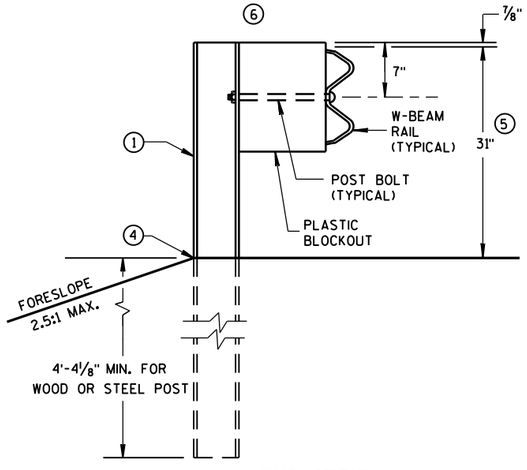
END VIEW

SETTING STEEL OR WOOD POST IN ROCK ③



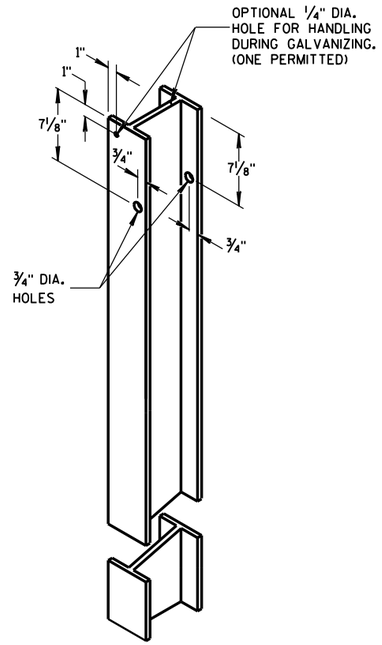
END VIEW

LOCATED ALONG A CURBED ROADWAY

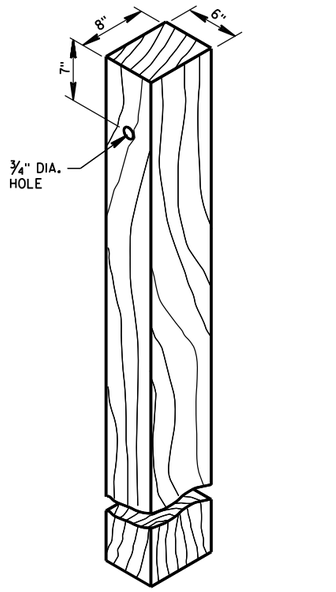


END VIEW

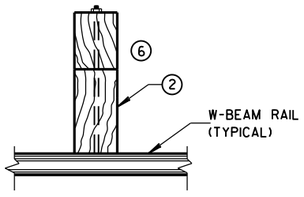
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



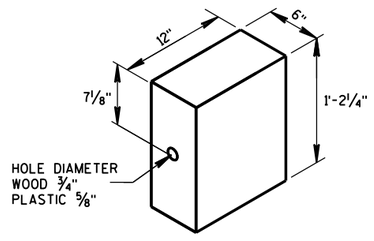
STEEL POST &
HOLE PUNCHING DETAIL
(w6X9) ①



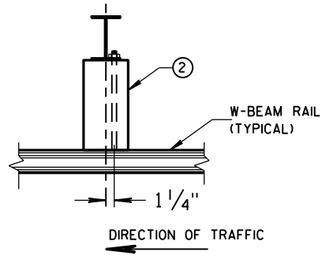
WOOD POST
(6" X 8") NOMINAL ①



PLAN VIEW
WOOD POST,
BLOCKOUT & BEAM



WOOD OR
PLASTIC BLOCKOUT ②



PLAN VIEW
STEEL POST,
PLASTIC BLOCKOUT & BEAM

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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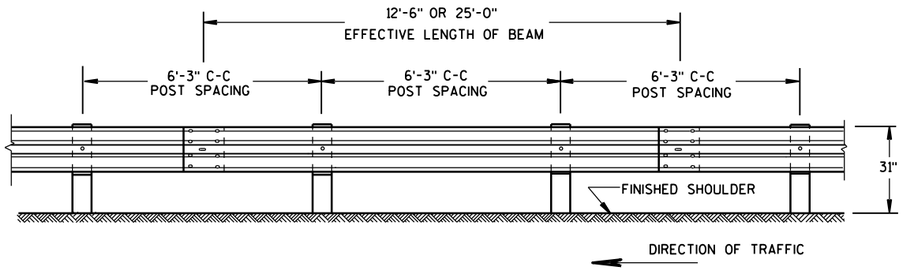
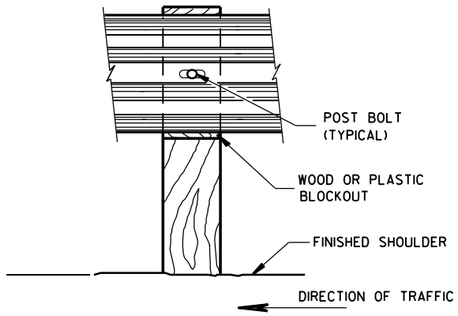
S.D.D. 14 B 42-4a



FRONT VIEW

POST SPACING STANDARD INSTALLATION



FRONT VIEW AT WOOD POST

7. PROVIDE SILVER REFLECTIVE SHEETING ON ALL REFLECTORS EXCEPT THOSE LOCATED ALONG THE LEFT EDGE OF ONE-WAY ROADWAYS, WHICH SHALL BE PROVIDED WITH YELLOW REFLECTIVE SHEETING. SHEETING IS TYPE H. SEE STANDARD SPECIFICATION 637.

8. DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL. RAIL SPLICE LOCATIONS ARE THE ONLY ACCEPTABLE LOCATIONS FOR REFLECTORS.

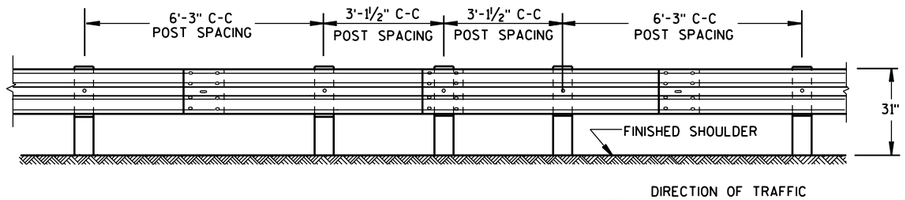
9. REVERSE EVERY OTHER REFLECTOR FOR 2-WAY VISIBILITY. THE CONTRACTOR MAY FURNISH TWO-SIDED REFLECTORS IN LIEU OF ONE-SIDED REFLECTORS.

10. PROVIDE AN ANGLE OF BEND OF 90° ± 1° FOR TWO-SIDED REFLECTORS.

11. 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.

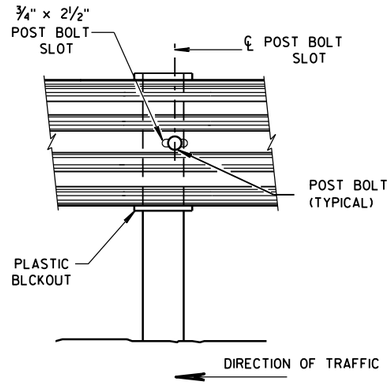
POST BOLTS ARE A 5/8" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT REQUIRES 5/8" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND 5/8" DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS ARE BEING USED.

GUARD RAIL SPLICE BOLTS ARE A 5/8" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES 5/8" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.

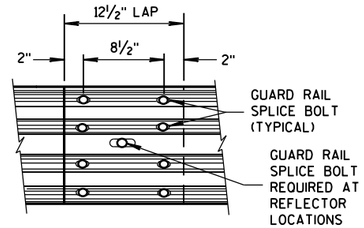


FRONT VIEW

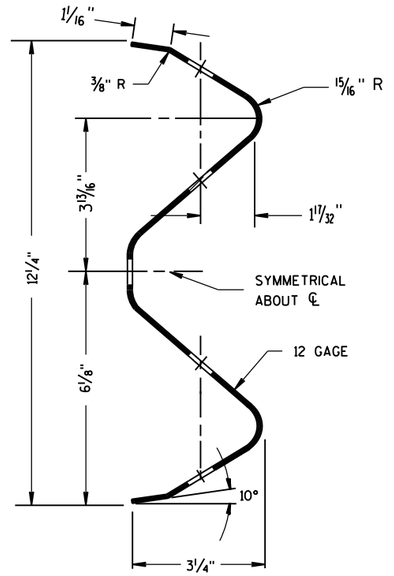
HALF POST SPACING (HS) AND HALF POST SPACING WITH LONGER POSTS (K)



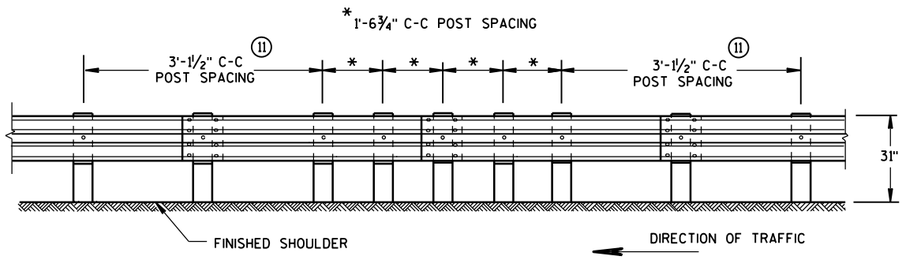
FRONT VIEW AT STEEL POST



FRONT VIEW
MID-SPAN BEAM SPLICE

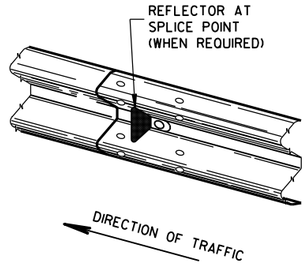


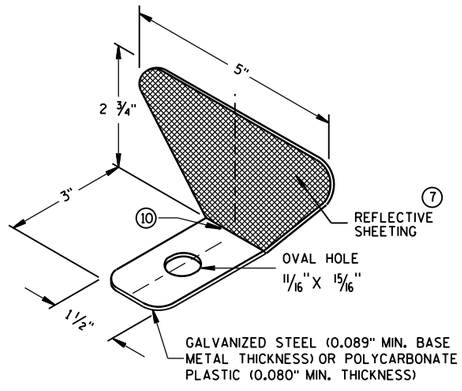
SECTION THRU W-BEAM RAIL



FRONT VIEW

QUARTER POST SPACING (QS)





REFLECTOR SPACING (8)

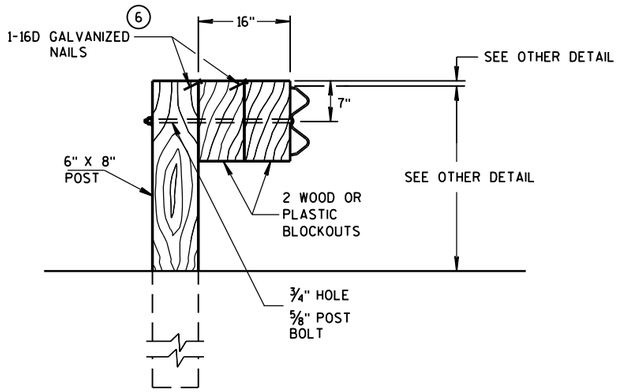
	BEAM GUARD LENGTH	REFLECTOR SPACING	NO. SURFACES REFLECTORIZED	MIN. NO. REFLECTORS
ONE WAY TRAFFIC	< 200'	50' C-C	1	3
	> 200'	100' C-C	1	
TWO WAY TRAFFIC	< 200'	25' C-C	1 (9)	6
	> 200'	50' C-C	1	
TWO WAY TRAFFIC	< 200'	50' C-C	2	3
	> 200'	100' C-C	2 (10)	

ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION (7)

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

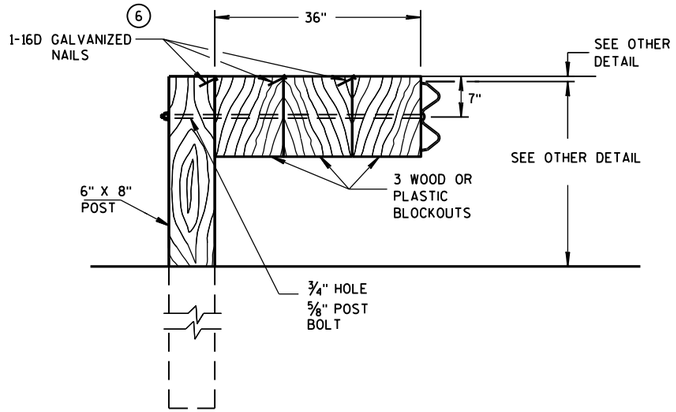
STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

6
S.D.D. 14 B 42-4b



DETAIL FOR 16" BLOCKOUT DEPTH

IT IS ACCEPTABLE TO USE BLOCKOUTS UP TO 16" DEEP TO INCREASE THE POST OFFSET TO AVOID UNDERGROUND OBSTACLES. THERE IS NO LIMIT TO THE NUMBER OF POSTS THAT CAN HAVE ADDITIONAL BLOCKOUTS UP TO 16" DEEP.

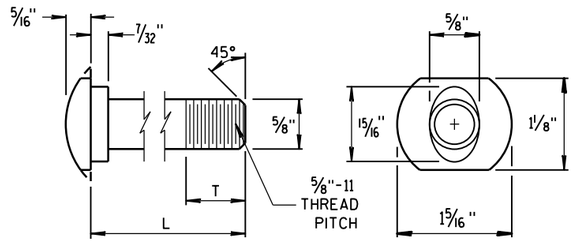


DETAIL FOR 36" BLOCKOUT DEPTH

NOTES: UNDER SPECIAL CIRCUMSTANCES, SUCH AS AVOIDING OBSTACLES THAT ARE NOT RELOCATED, IT IS ACCEPTABLE TO INSTALL ADDITIONAL BLOCKOUTS TO OBTAIN UP TO 36" DEPTH FOR ONE OR TWO POSTS IN A SECTION OF GUARDRAIL.

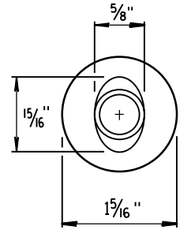
DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

NOTE: 1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF 1/16".
2. IF THE BOLT EXTENDS MORE THAN 1/4" FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.

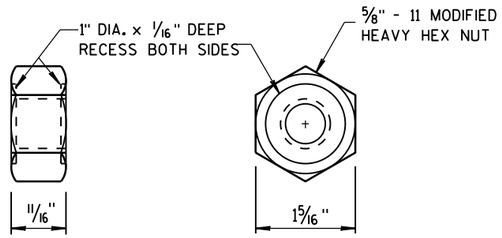


POST BOLT TABLE

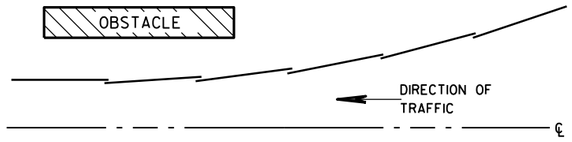
L	T (MIN.)
1 1/4"	1 1/8"
2"	1 3/4"
10"	4"
14"	4 1/16"
18"	4"
21"	4 1/16"
25"	4"



ALTERNATE BOLT HEAD

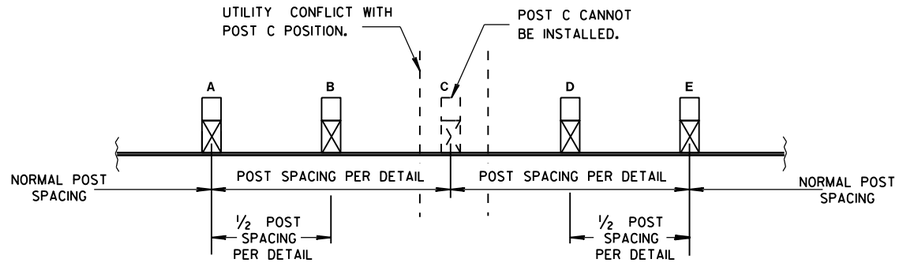


POST BOLT, SPLICE BOLT AND RECESS NUT

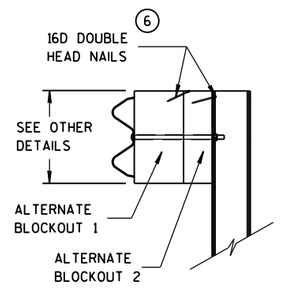


PLAN VIEW

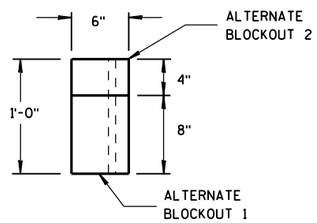
BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION



SIDE VIEW



TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2016 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

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S.D.D. 14 B 42-4c

GENERAL NOTES

(A) THE SLOPE IN THE AREA BOUNDED BY THE GRADELINE, THE HINGE POINT LINE (HPL), AND THE CLEAR ZONE LIMITS (CZL) SHALL BE 4:1 OR FLATTER.

(B) AFTER FINAL ASSEMBLY, RECHECK CABLE TO BE SURE IT IS TAUT AND HAS NOT RELAXED.

(C) DIFFERENT MANUFACTURES REQUIRE DIFFERENT PERFORATED W-BEAM RAIL END PANELS. SEE MANUFACTURES INFORMATION.

(D) THE TOP OF THE STEEL TUBE ON POST 1 AND POST 2 SHALL NOT BE MORE THAN 3" ABOVE THE FINISH GROUND ELEVATION.

(F) ATTACH ALUMINUM SHEET TO E.A.T. HEAD USING 4 STAINLESS STEEL SELF-TAPPING SCREWS. ONE SCREW PER CORNER.

(G) ½" DIAMETER X 3" LONG LAG BOLT AND WASHER.

(H) HARDWARE VARIES BETWEEN DIFFERENT MANUFACTURES. SEE MANUFACTURE'S DRAWING FOR INFORMATION.

(I) DIMENSIONS MAY VARY. SEE MANUFACTURE'S INFORMATION.

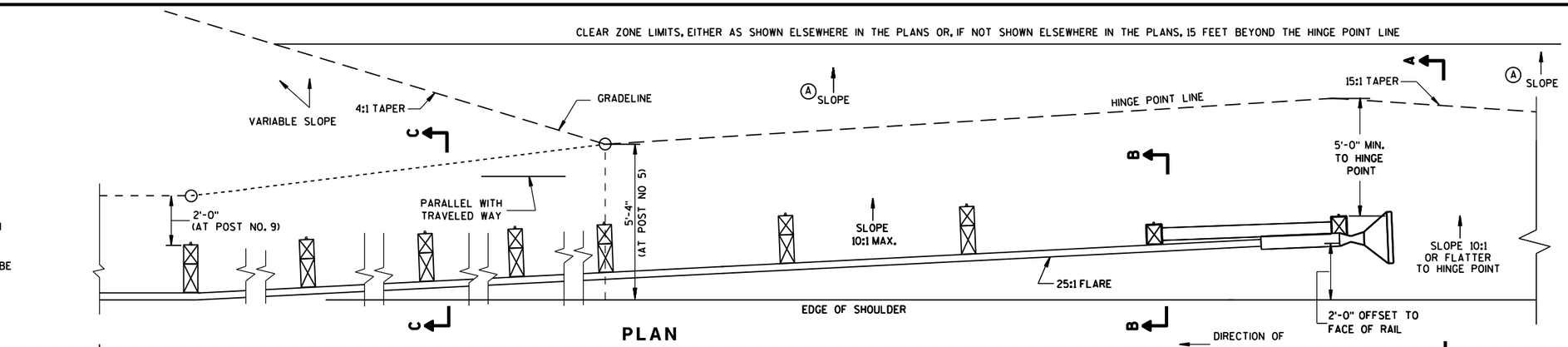
SEE SDD 14B42 FOR MORE INFORMATION.

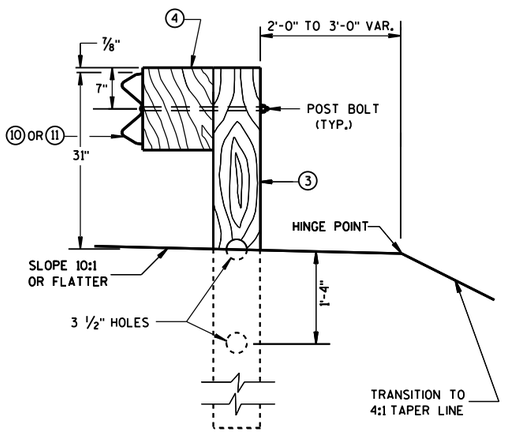
* DO NOT ATTACH BLOCKOUTS TO POSTS 1 AND 2.

DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

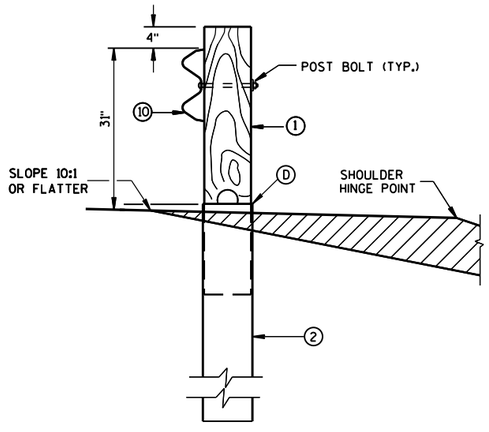
W-BEAM RAIL SPLICES ARE LOCATED AT POST NUMBER 3, AND BETWEEN POST 5 AND 6, BETWEEN POSTS 7 AND 8, AND MIDDLE OF THE SPAN AFTER POST 9.

THE CENTER OF THE UPPER 3½" DIAMETER HOLE ON POST NUMBER 3 THROUGH POST 9 IS TO BE FLUSH WITH THE GROUND LINE UP TO A MAXIMUM OF 2" ABOVE GROUND LINE.

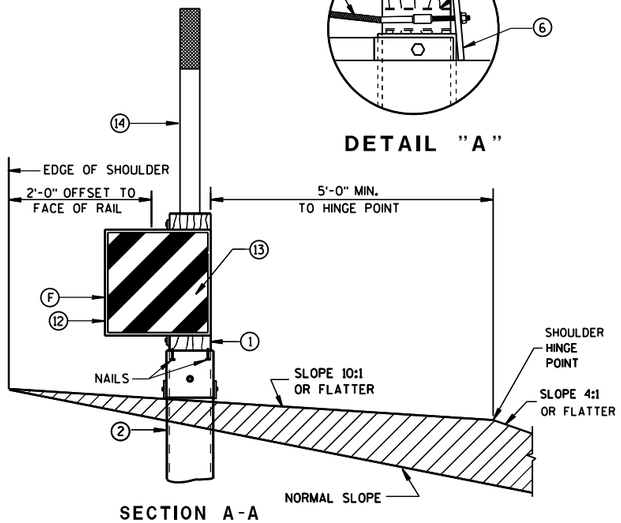




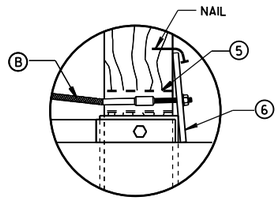
SECTION C-C
TYPICAL AT POST NOS. 3-9



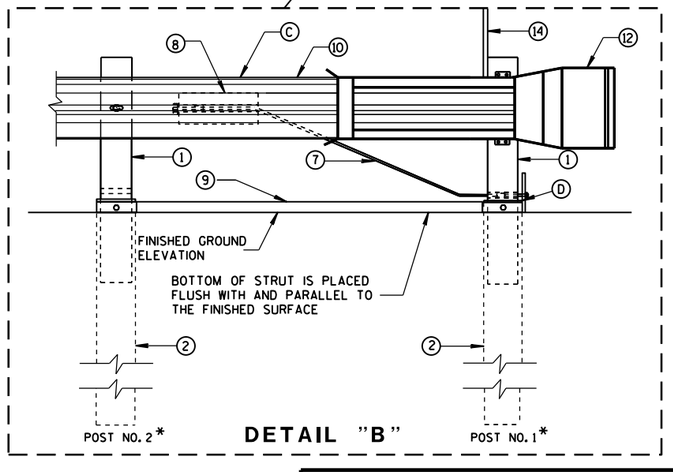
SECTION B-B
TYPICAL AT POST NO. 2*



SECTION A-A
TYPICAL AT POST NO. 1*



DETAIL "A"



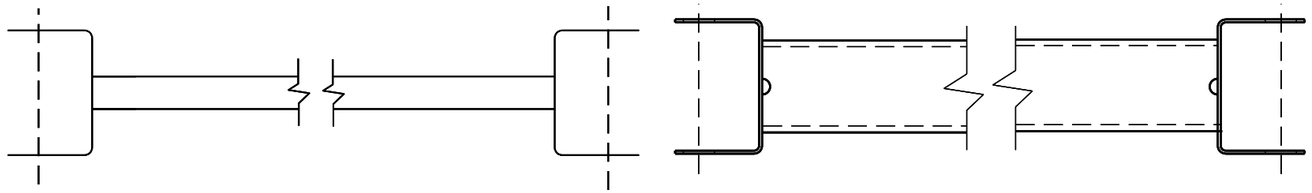
DETAIL "B"

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

S.D.D. 14 B 44-2a

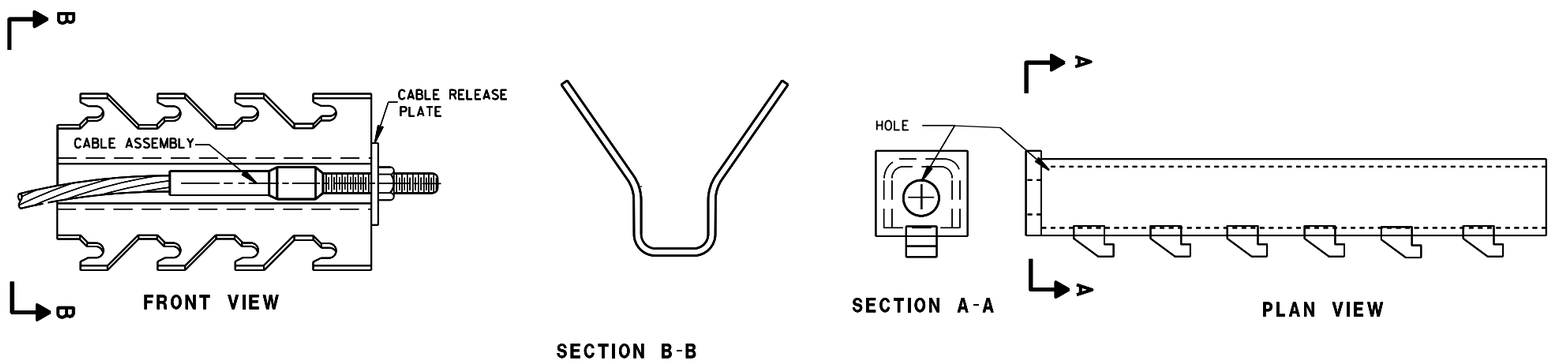
S.D.D. 14 B 44-2a



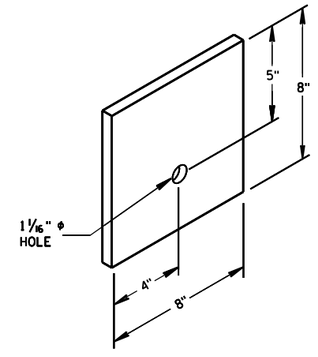
GENERIC GROUND STRUT (9) (H)

BILL OF MATERIALS

PART NO.	DESCRIPTION MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUFACTURER'S DETAILS FOR MORE INFORMATION.
(1)	WOOD BREAKAWAY POST
(2)	6" X 8" X 0.188", 6'-0" LONG FOUNDATION TUBE AT POSTS 1 AND 2
(3)	WOOD CRT
(4)	WOOD BLOCKOUT
(5)	PIPE SLEEVE
(6)	BEARING PLATE
(7)	BCT CABLE ASSEMBLY
(8)	ANCHOR CABLE BOX
(9)	GROUND STRUT
(10)	PERFORATED W-BEAM RAIL END PANEL, 12'-6" LONG.
(11)	STANDARD W-BEAM RAIL. MULTIPLE SECTIONS REQUIRED. SECTIONS VARY IN LENGTH.
(12)	END SECTION EAT
(13)	0.040" ALUMINUM SHEET WITH REFLECTIVE SHEETING TYPE F PER SECTION 637 OF THE STANDARD SPECIFICATIONS
(14)	EAT MARKER POST - YELLOW (SEE APPROVED PRODUCTS LIST)



GENERIC ANCHOR CABLE BOX (8) (H)

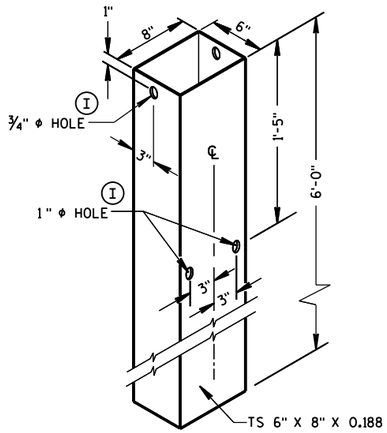


BEARING PLATE (6)

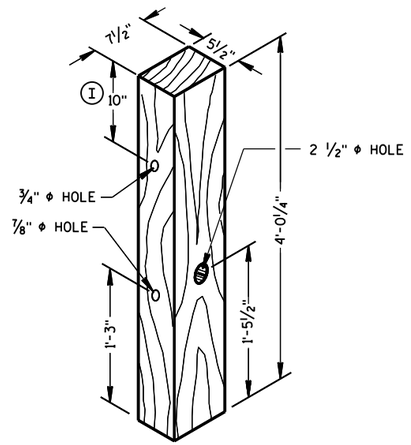
MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6
S.D.D. 14 B 44-2b

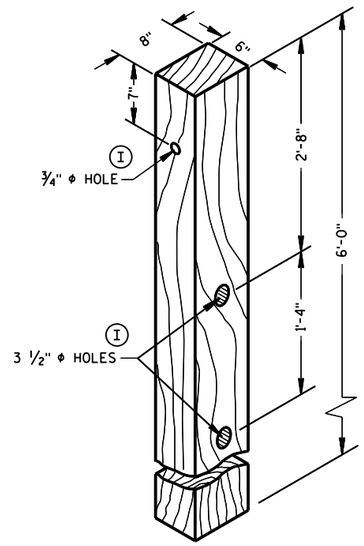


FOUNDATION TUBE (2)



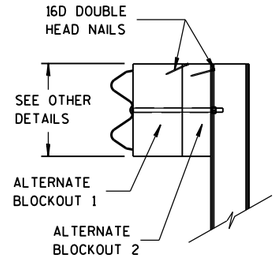
POSTS NUMBER 1 AND 2

WOOD BREAKAWAY POST (1)

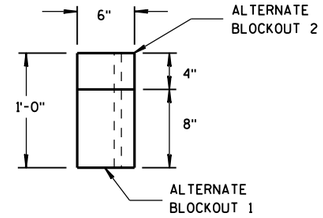


POSTS NUMBER 3-9

WOOD CRT POST (3)

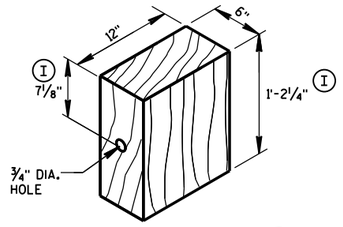


SIDE VIEW



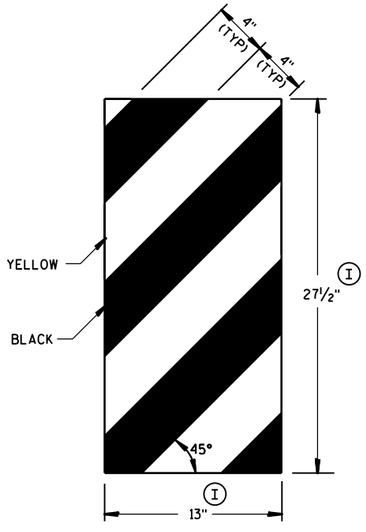
TOP VIEW

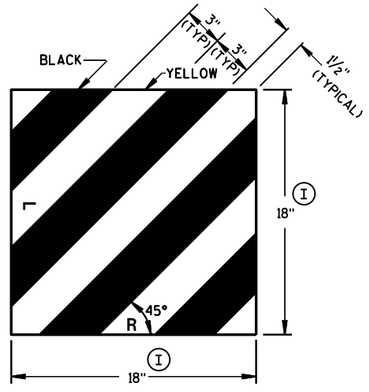
ALTERNATE WOOD BLOCKOUT DETAIL



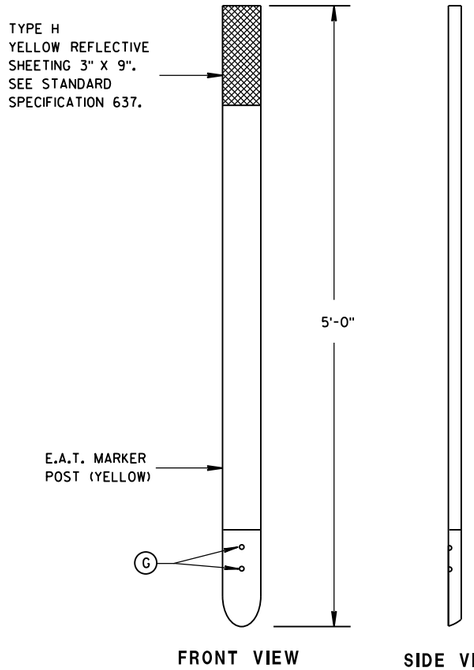
WOOD BLOCKOUT (4)

REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2





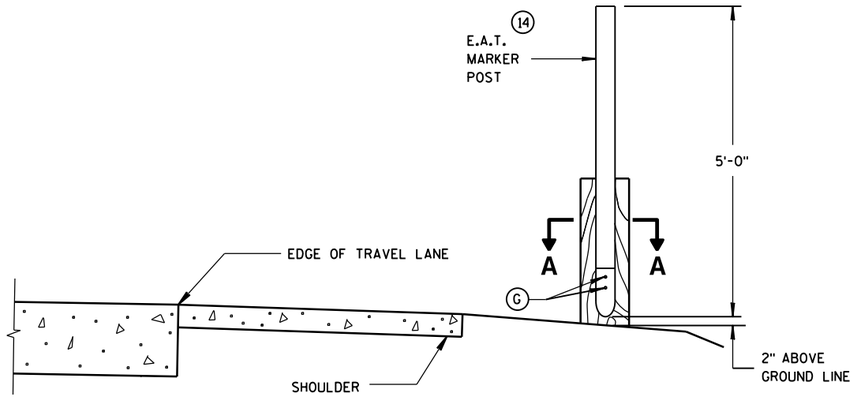
GENERIC REFLECTIVE SHEETING (13) (H)



FRONT VIEW

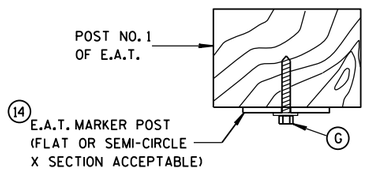
SIDE VIEW

E.A.T. MARKER POST (14)



TYPICAL INSTALLATION OF E.A.T. MARKER POST BACKSIDE OF POST NO. 1

(E.A.T. AND RAIL REMOVED FOR CLARITY)



SECTION A-A

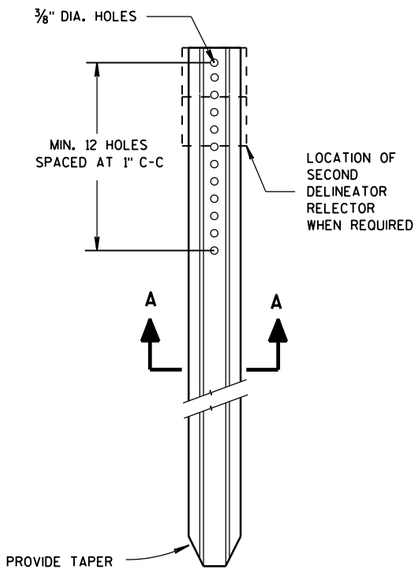
MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

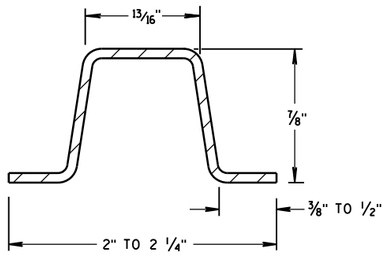
APPROVED
June 2014 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

6

S.D.D. 14 B 44-2c

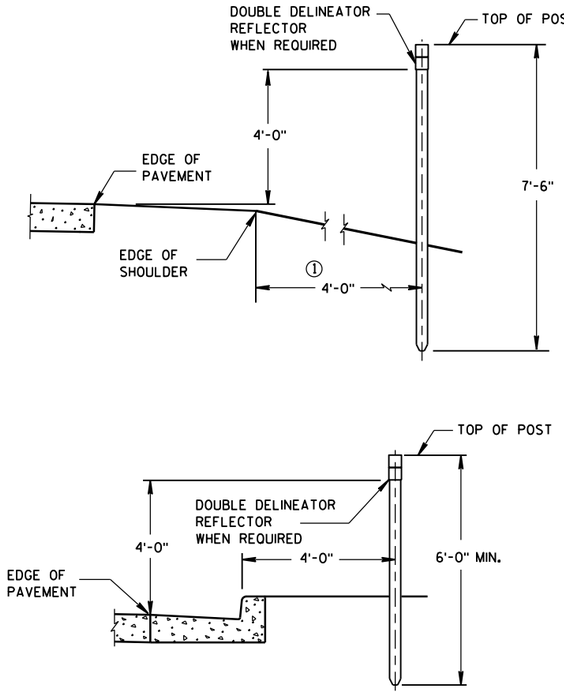


DELINEATOR POST



SECTION A-A

WEIGHT 1.12 LBS PER FT. ± 0.1 LB.

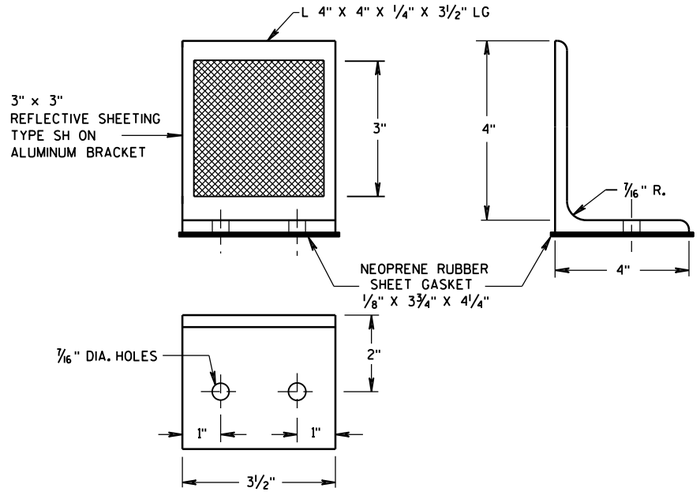


TYPICAL INSTALLATIONS OF DELINEATOR POSTS

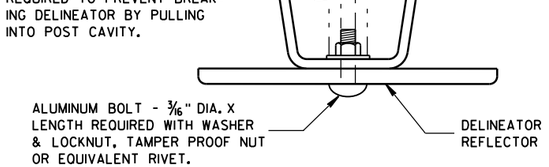
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

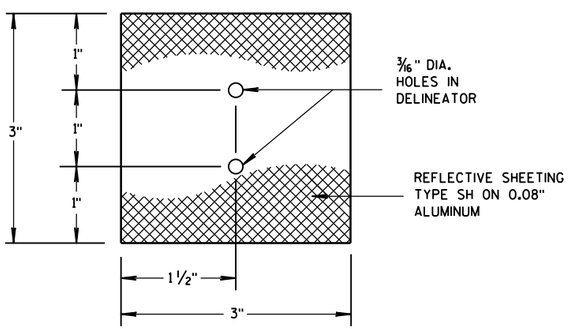
① DELINEATORS SHALL BE PLACED AT A CONSTANT DISTANCE FROM THE EDGE OF THE SHOULDER FOR THE LENGTH OF THE INSTALLATION.



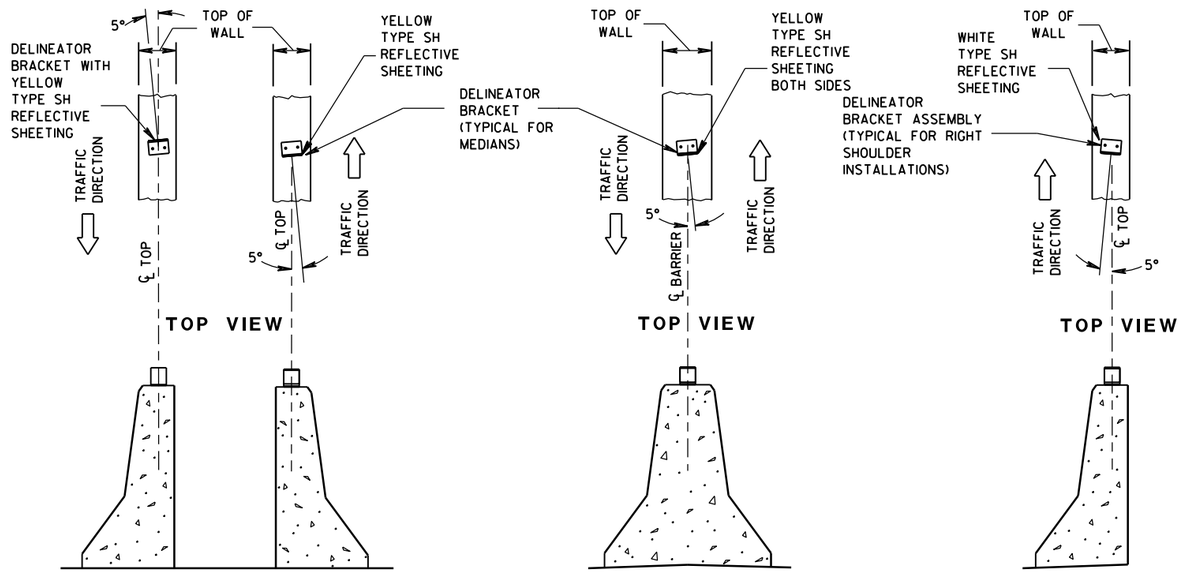
DELINEATOR BRACKET



MOUNTING DETAIL FOR DELINEATOR REFLECTOR

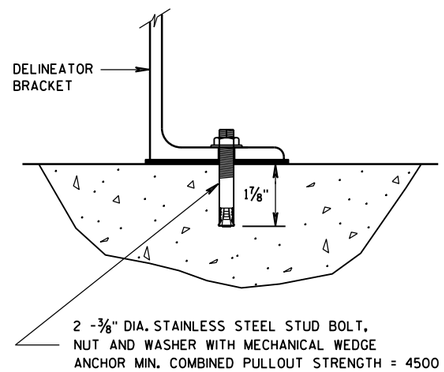


3"x 3" DELINEATOR REFLECTOR



DOUBLE BARRIERS IN MEDIAN | MEDIAN BARRIER | BARRIER LOCATED TO RT. OF TRAFFIC FLOW

LOCATION AND AIMING DETAILS FOR DELINEATOR BRACKETS MOUNTED ON CONCRETE BARRIERS



DELINEATOR BRACKET MOUNTING DETAIL

DELINEATOR POST, DELINEATOR REFLECTOR AND DELINEATOR BRACKET WITH REFLECTIVE SHEETING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

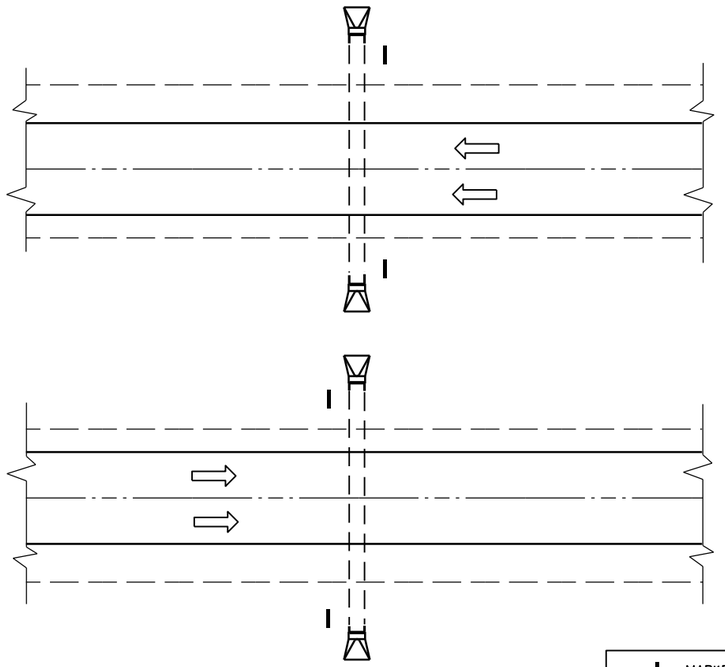
APPROVED
4-18-16 DATE
/S/ Matthew R. Rauch
STATE SIGNING AND MAR[illegible] GINEER
FHWA

6

S.D.D. 15 A 2-9

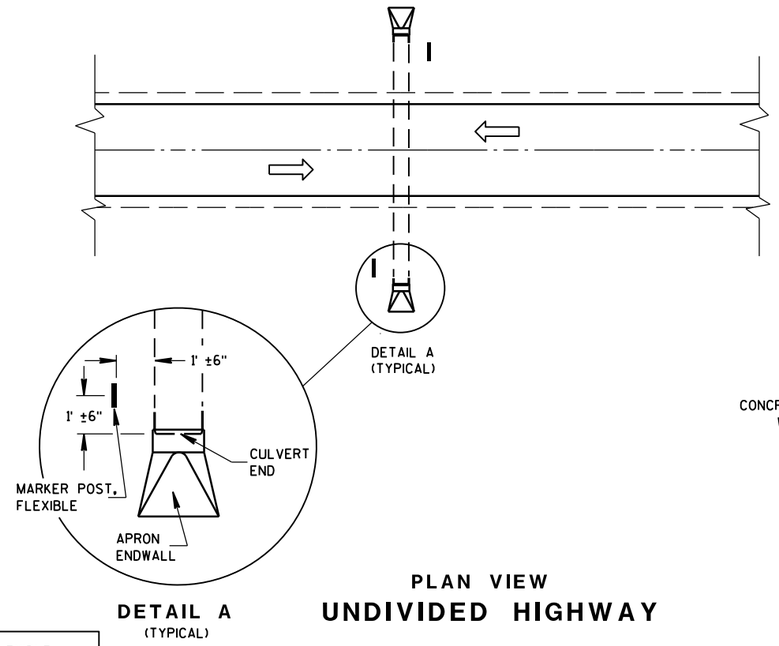
6

S.D.D. 15 A 2-9



PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

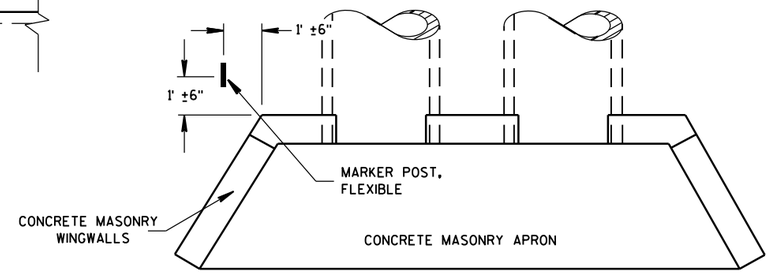
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

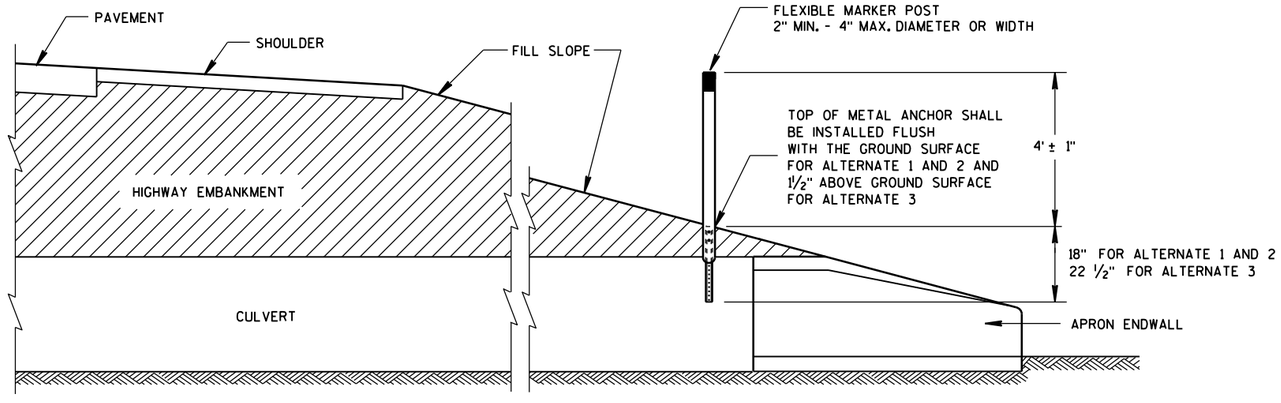
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



PLAN VIEW

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

FLEXIBLE MARKER POST LOCATION



CROSS SECTION

FLEXIBLE MARKER POST

FLEXIBLE MARKER POST FOR CULVERT END

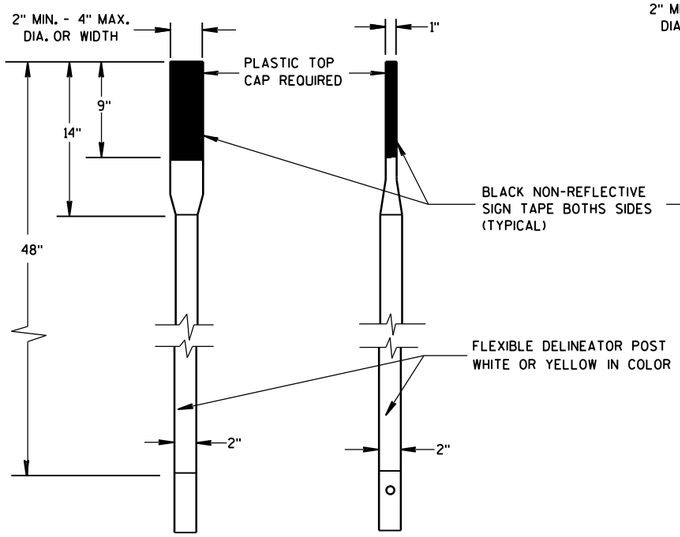
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

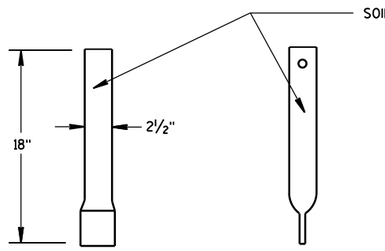
6

S.D.D. 15 A 3-2a

6

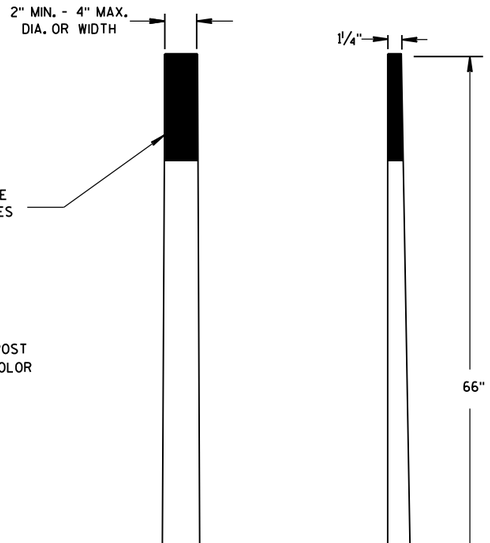
S.D.D. 15 A 3-2a





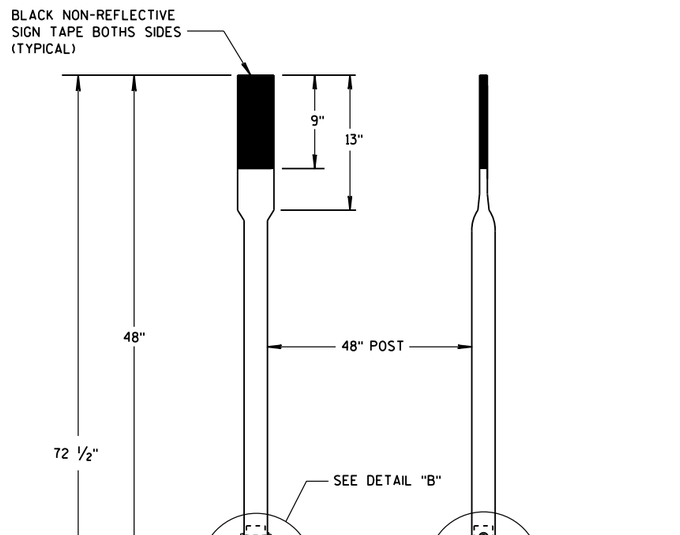
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

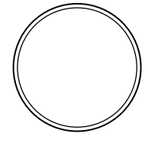
ALTERNATE 2



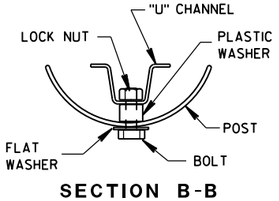
FRONT VIEW SIDE VIEW

ALTERNATE 3

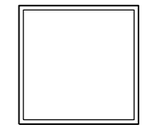
FLEXIBLE MARKER POSTS



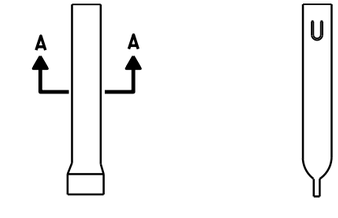
SECTION A-A



SECTION B-B

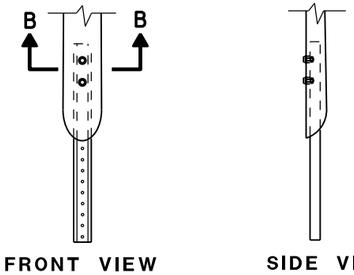


SECTION C-C



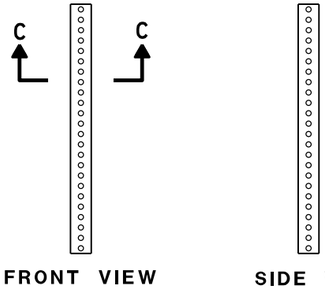
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

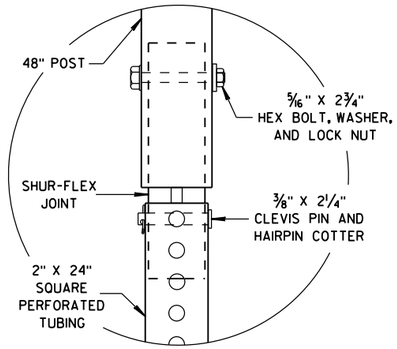
ALTERNATE 2



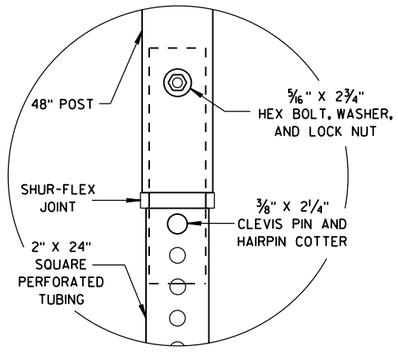
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POST ANCHORS



DETAIL B



DETAIL C

FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/1/2012 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

6

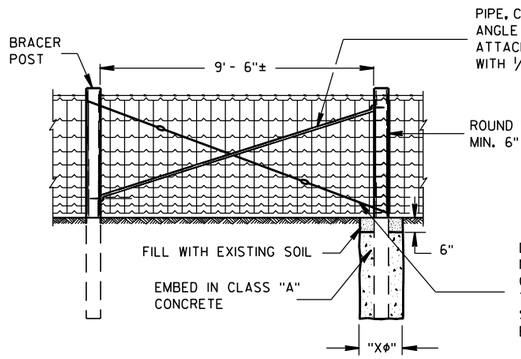
S.D.D. 15 A 3-2b

6

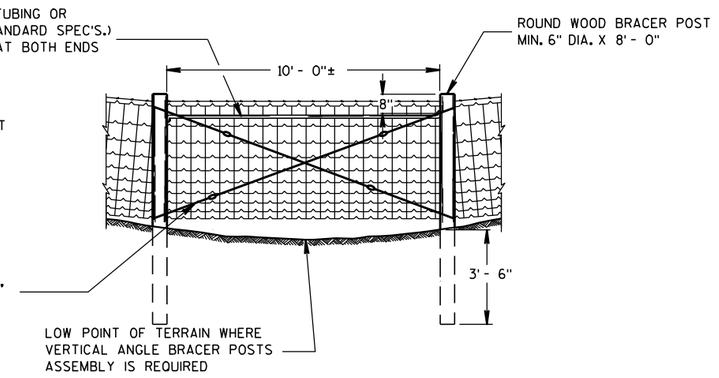
S.D.D. 15 A 3-2b

NOTE: PULL OR STRETCHER POST ASSEMBLIES SHALL BE PLACED MIDWAY BETWEEN END POSTS AND CORNER POSTS WHERE A RUN OF FENCE EXCEEDS 660' BUT IS LESS THAN 1,320'. FOR RUNS OF FENCE IN EXCESS OF 1,320' MAXIMUM SPACING OF PULL OR STRETCHER POST ASSEMBLIES SHALL BE 660'± C-C.

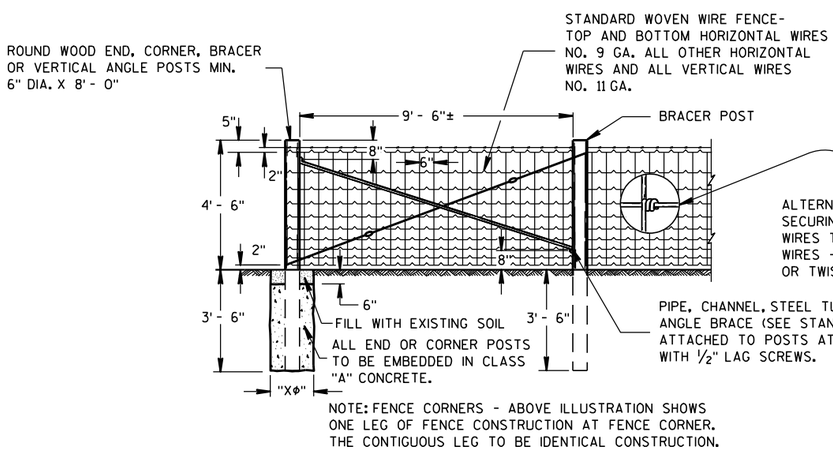
ILLUSTRATION SHOWS POSITION OF STANDARD STEEL BRACE, DOUBLE STRAND GALVANIZED WIRE, AND THE POST TO BE EMBEDDED IN CONCRETE WHEN WIRE FENCE IS INSTALLED FROM LEFT TO RIGHT. THE BRACES SHALL BE POSITIONED ON THE OPPOSITE DIAGONALS AND THE OPPOSITE POST SHALL BE EMBEDDED IN CONCRETE WHEN WIRE FENCE IS INSTALLED FROM RIGHT TO LEFT.



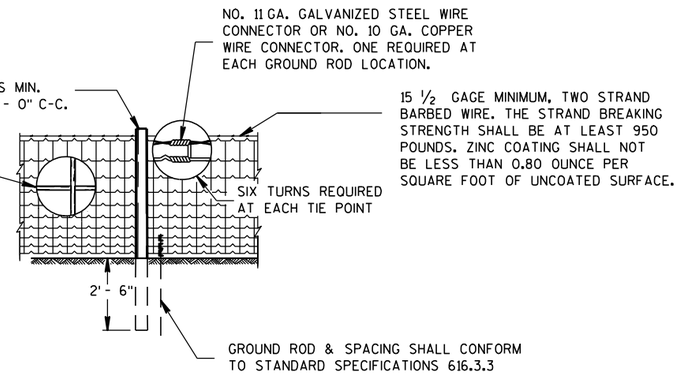
PULL OR STRETCHER POSTS ASSEMBLY



VERTICAL ANGLE BRACER POSTS ASSEMBLY



END OR CORNER POSTS ASSEMBLY



LINE FENCE CONSTRUCTION

GENERAL NOTES

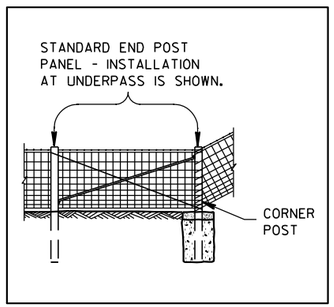
"XΦ" = DIAMETER OF THE POST PLUS 12".

FENCE STAPLES SHOULD NEVER BE DRIVEN VERTICALLY INTO WOOD POSTS (WITH BOTH LEGS PARALLEL WITH THE WOOD GRAIN). DOING SO CAN SEPARATE THE GRAIN AND SIGNIFICANTLY REDUCE THE HOLDING POWER. ROTATING THE STAPLES SLIGHTLY OFF VERTICAL STRADDLES THE GRAIN AND PROVIDES MORE RESISTANCE TO PULL-OUT.

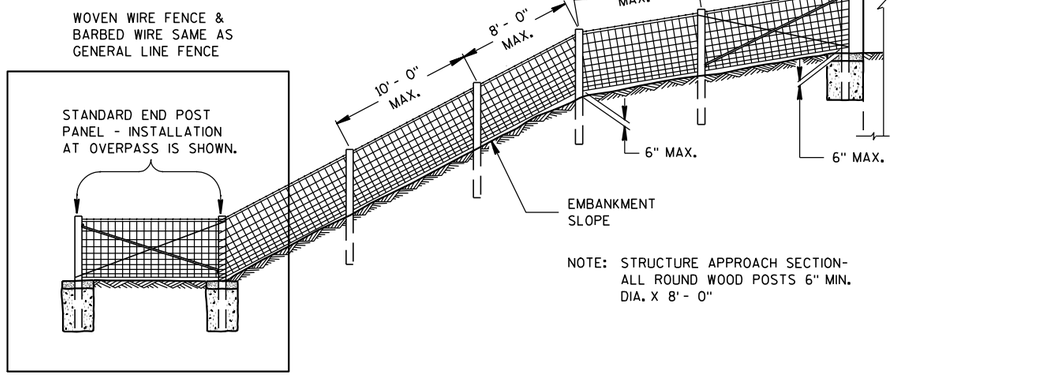
DO NOT STAPLE WIRE TIGHT TO THE LINE POSTS. ALLOW MOVEMENT OF WIRE FOR EXPANSION AND CONTRACTION. STAPLE ARRANGEMENT SHALL BE THE SAME FOR ALL OTHER POSTS EXCEPT THAT THEY SHALL BE DRIVEN TIGHT TO POSTS. ALL STAPLES SHALL BE 2" X 9 GAGE AND SHALL BE MANUFACTURED FROM GALVANIZED WIRE OR HOT DIP GALVANIZED AFTER FORMING. STAPLES SHALL HAVE SLASH-CUT POINTS.

FENCE SHALL BE LOCATED 3'-0" INSIDE THE RIGHT OF WAY LINE UNLESS OTHERWISE INDICATED ON THE PLANS.

GENERAL ROADSIDE VIEW OF WOVEN WIRE FENCE



ALTERNATE FENCE DESIGN AT STRUCTURE



FENCE DESIGN AT STRUCTURE APPROACH

FENCE WOVEN WIRE

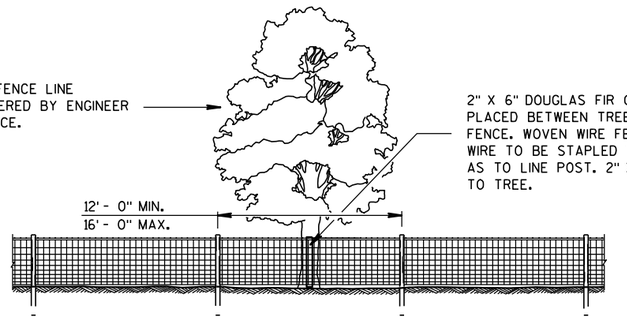
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

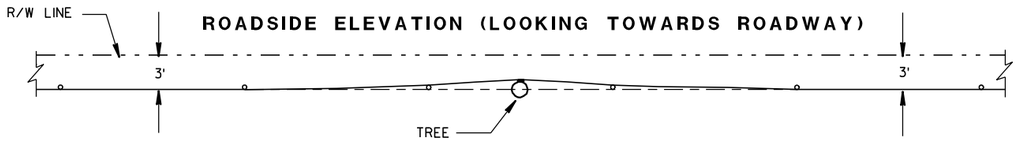
S.D.D. 15 B 1-8a

NOTE: TREE IN NORMAL FENCE LINE SPECIFICALLY ORDERED BY ENGINEER TO REMAIN IN PLACE.

2" X 6" DOUGLAS FIR OR SO. YELLOW PINE PLACED BETWEEN TREE AND WOVEN WIRE FENCE. WOVEN WIRE FENCE AND BARBED WIRE TO BE STAPLED TO 2" X 6" LIKE AS TO LINE POST. 2" X 6" NOT FASTENED TO TREE.

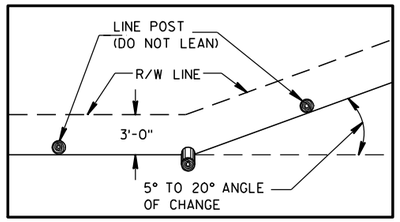


ROADSIDE ELEVATION (LOOKING TOWARDS ROADWAY)

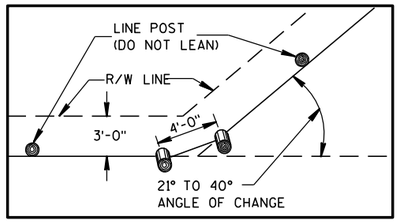


PLAN VIEW

FENCE DESIGN AT TREES REMAINING IN NORMAL FENCE LINE



PLAN VIEW
SINGLE POST CORNER

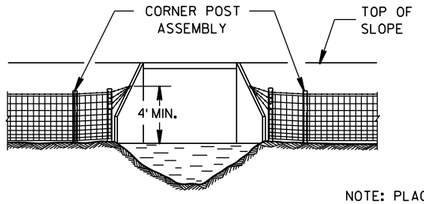


PLAN VIEW
DOUBLE POST CORNER

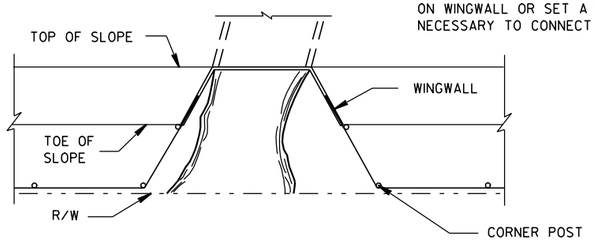
RIGHT OF WAY LINE CHANGE 40° AND LESS

NOTE: SINGLE AND DOUBLE POSTS SHALL BE A MIN. 6" DIA. X 8'-0" WITH A LEAN OF 4" TOWARD THE OUTSIDE OF THE CURVE.

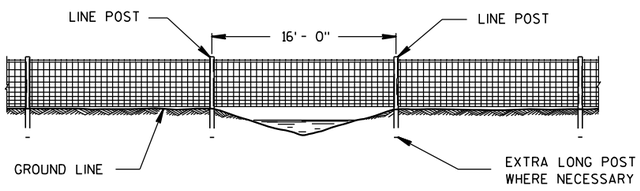
WHEN THE RIGHT OF WAY LINE CHANGE IS MORE THAN 40° USE THE CORNER OR STRETCHER POSTS ASSEMBLY.



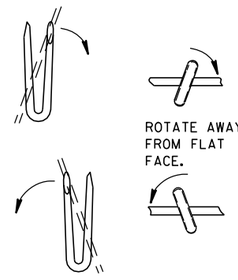
NOTE: PLACE A MINIMUM OF 4 STRANDS OF BARBED WIRE, 6" MAXIMUM CENTERS IN FAN SHAPE CONNECTED TO AN EYE BOLT ON WINGWALL OR SET A LONE POST WHEN NECESSARY TO CONNECT BARBED WIRE.



FENCE INSTALLATION TO WINGWALLS

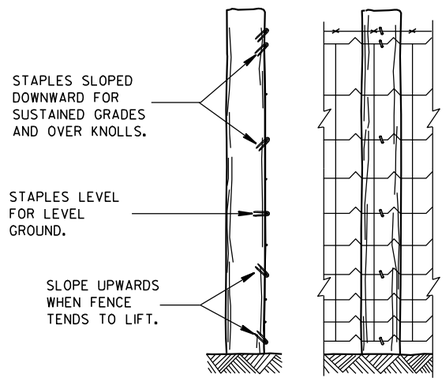


FENCE CONSTRUCTION OVER STREAM COURSES OF 15 FT. OR LESS IN WIDTH



LINE POST

NOTE: WHEN POSTS ARE DRIVEN THE SMALL END SHALL BE DOWN.

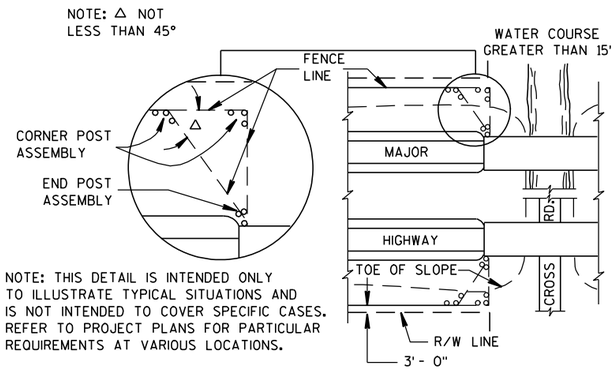


END ELEVATION

FARM SIDE ELEVATION

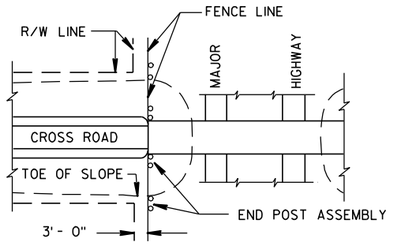
FENCE MOUNTING DETAIL

NOTE: △ NOT LESS THAN 45°



NOTE: THIS DETAIL IS INTENDED ONLY TO ILLUSTRATE TYPICAL SITUATIONS AND IS NOT INTENDED TO COVER SPECIFIC CASES. REFER TO PROJECT PLANS FOR PARTICULAR REQUIREMENTS AT VARIOUS LOCATIONS.

PLAN VIEW
MAJOR HIGHWAY OVERPASS OR STREAM COURSE CROSSING OF GREATER THAN 15 FT. IN WIDTH



PLAN VIEW
MAJOR HIGHWAY UNDERPASS

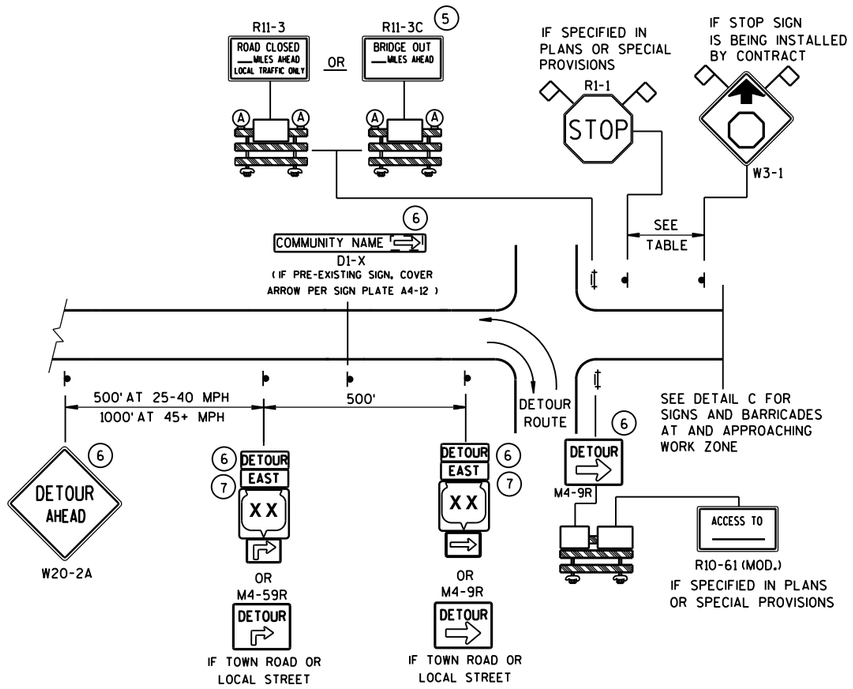
FENCE LOCATION AT STRUCTURES

FENCE WOVEN WIRE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

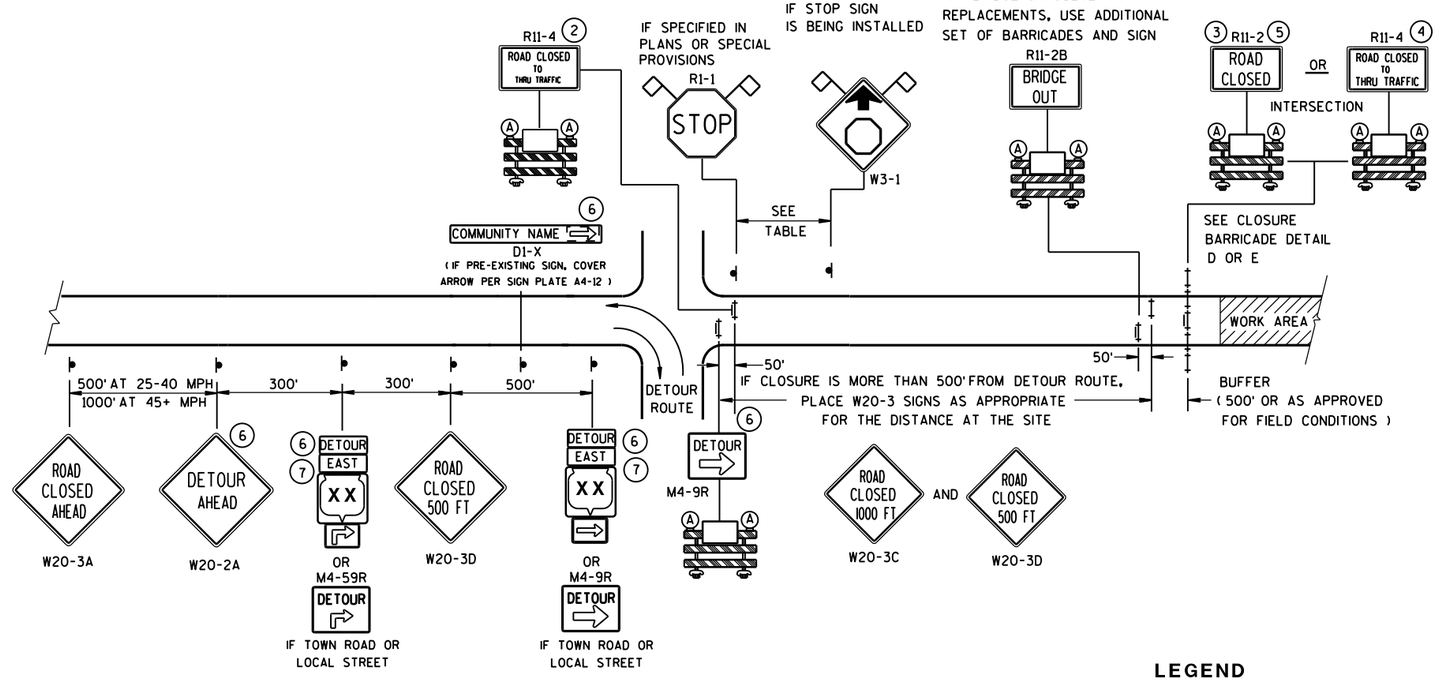
APPROVED
4/4/2008
DATE
/S/ Jerry H. [illegible]
ROADWAY STANDARDS [illegible] ENGINEER
FHWA

6
S.D.D. 15 B 1-8b



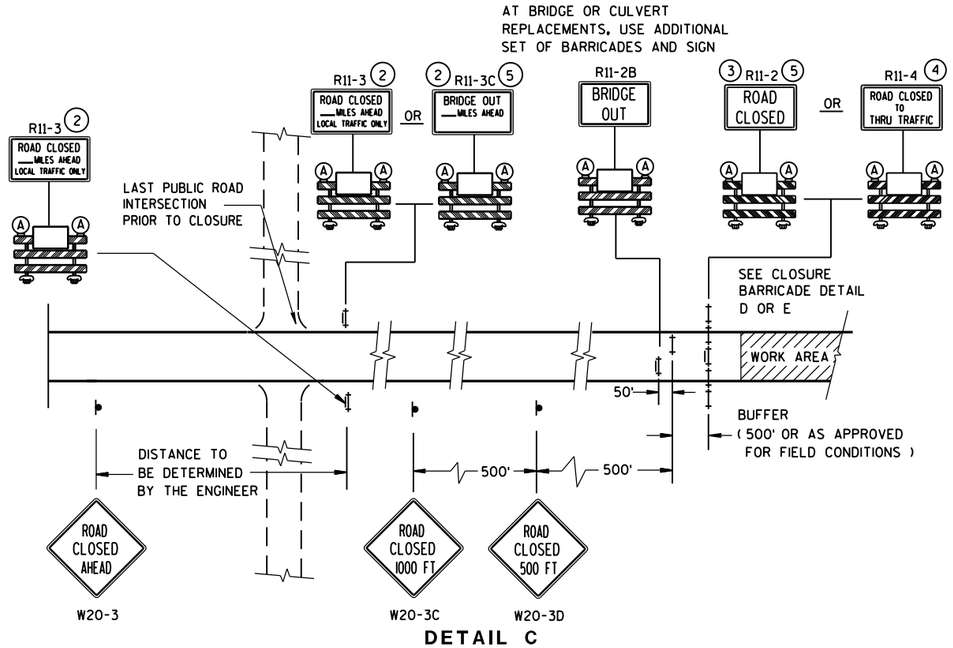
DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE GREATER THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE LESS THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR

SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (FT)
25	200
30	200
35	350
40	350
45	500
50	550
55	750

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA
- DETOUR / EAST — M4-8 / M3-X
- XX — M1-4; COUNTY XX — M1-5A; XX — M1-6
- M05-1 OR M06-1
- FLAGS, 16" X 16" MIN., (ORANGE)

SEE SDD 15C2-SHEET "**b**" FOR GENERAL NOTES AND FOOTNOTES (1) THROUGH (7)

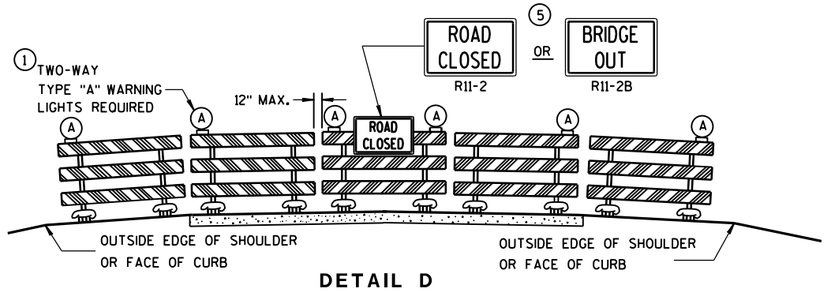
BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

Sept. 2015 — DATE
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER
FHWA

S.D.D. 15 C 2-6a

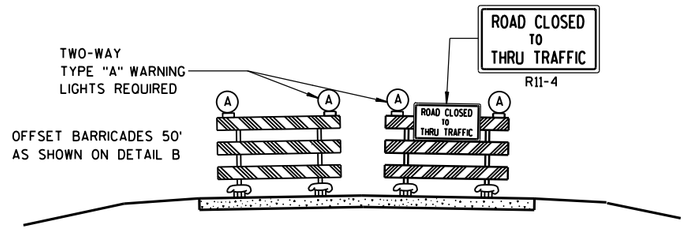
S.D.D. 15 C 2-6a



DETAIL D

ROAD CLOSURE BARRICADE DETAIL

APPROACH VIEW



DETAIL E

LANE CLOSURE BARRICADE DETAIL

APPROACH VIEW

SEE SDD 15C2-SHEET "**a**" FOR LEGEND

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL D FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3, M4-9, R11-4 AND R10-61 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

"WO AND "MO" SIGNS ARE THE SAME AS "W" AND "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
- R11-2 SHALL BE 48" X 30".
- R11-3, R11-4 AND R10-61 SHALL BE 60" X 30".
- M4-9 SHALL BE 30" X 24".
- M3-X SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS.)
- M4-8 SHALL BE 24" X 12". (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS.)
- M1-4, M1-5A, AND M1-6 SHALL BE 24" X 24". (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS.)
- M05-1 AND M06-1 SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS.)
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1-1 SHALL BE 36" X 36".

(1) TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8-FOOT LIGHT SPACING).

(2) THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT INTERSECTION.

(3) FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL D.

(4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE LANE CLOSURE BARRICADE DETAIL E.

(5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11-2 AND R11-3 SIGNS.

(6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.

(7) "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

Sept. 2015 — DATE

/S/ Peter Amakobe Atepe
STATEWIDE WORK ZO SAFETY ENGI — FHWA — FIC

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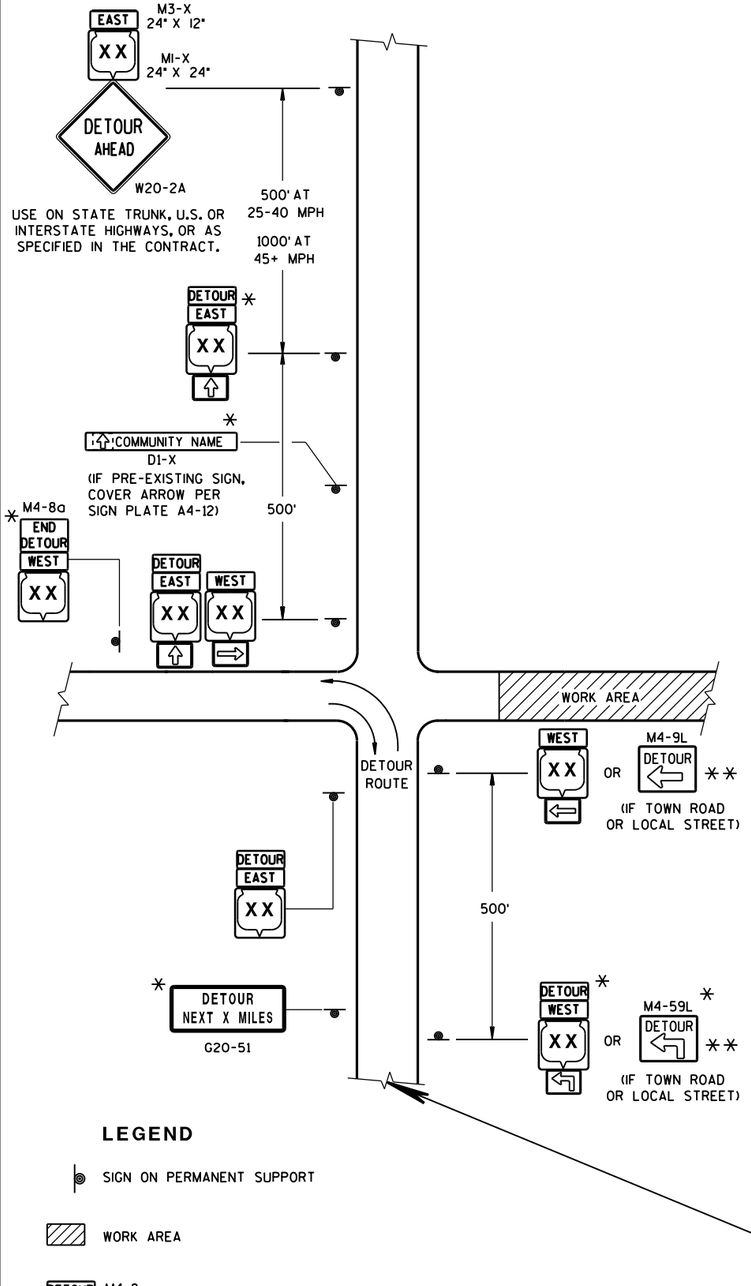
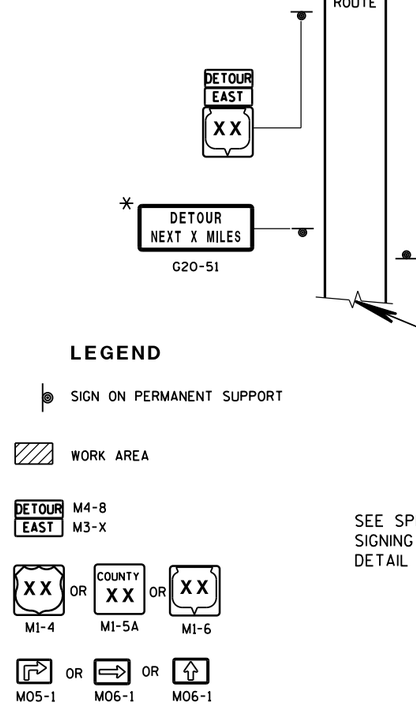
S.D.D. 15 C 2-6b

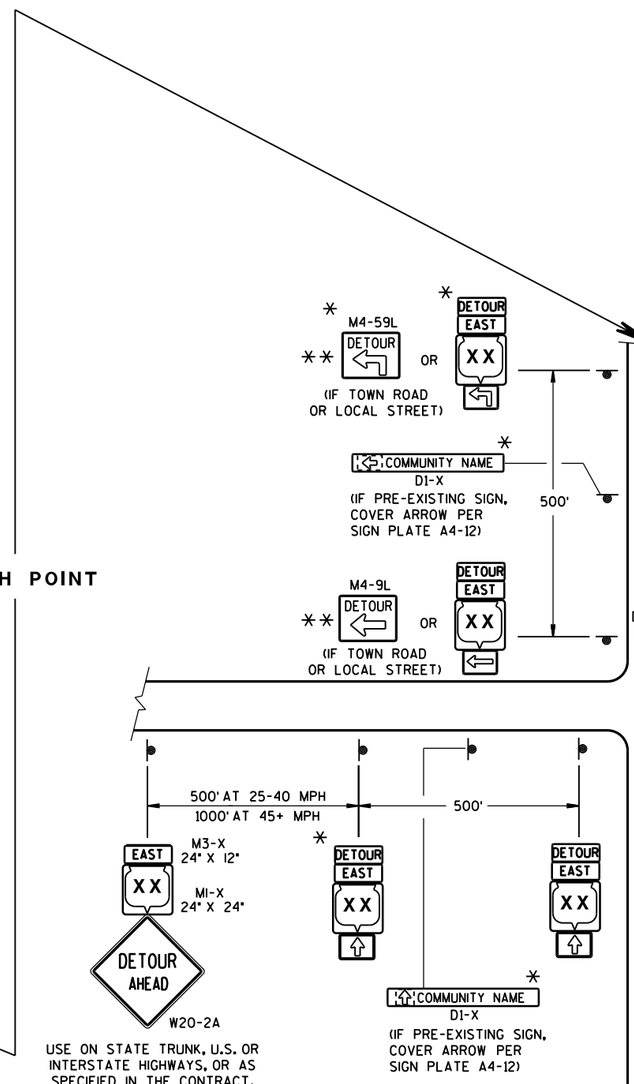


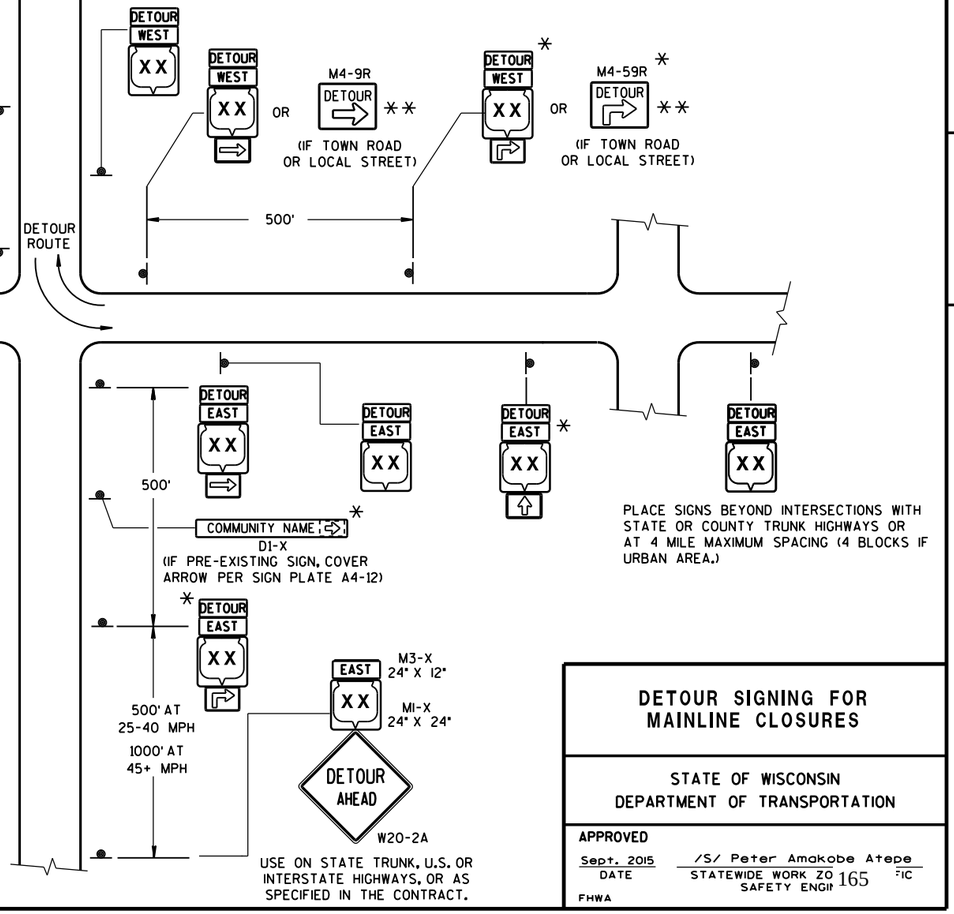


SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS AND DETAIL A OR B ON SDD 15C2-SHEET "a"

THIS DRAWING PROVIDES GENERAL GUIDANCE ON TYPICAL DETOUR SIGN LAYOUT AND SPACING. SEE PROJECT DETOUR SIGNING SHEETS FOR SPECIFIC DETAILS FOR EACH PROJECT.

MATCH POINT





DETAIL F

DETOUR SIGNING

GENERAL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.

THE SPACING BETWEEN TRAFFIC CONTROL AND DETOUR SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE", SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGN SIZES SHALL BE AS FOLLOWS:

- M3-X SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS.)
- M4-8 SHALL BE 24" X 12". (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS.)
- M1-4, M1-5A, AND M1-6 SHALL BE 24" X 24". (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS.)
- M05-1 AND M06-1 SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS.)
- M4-9 SHALL BE 30" X 24".
- M4-8a SHALL BE 24" X 18".
- G20-51 SHALL BE 60" X 24".
- W20-2 SHALL BE 48" X 48".
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

* OPTIONAL SIGNS. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS.

** FOR A TOWN ROAD OR LOCAL STREET DETOURED ONTO A STATE TRUNK HIGHWAY, PLACE A ROAD NAME PLAQUE ABOVE THE M4-9 SIGN AS SPECIFIED IN THE CONTRACT.

DETOUR SIGNING FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

Sept. 2015
DATE

/S/ Peter Amakobe Atepe
STATEWIDE WORK ZO SAFETY ENGI

FHWA

6

S.D.D. 15 C 2-6c

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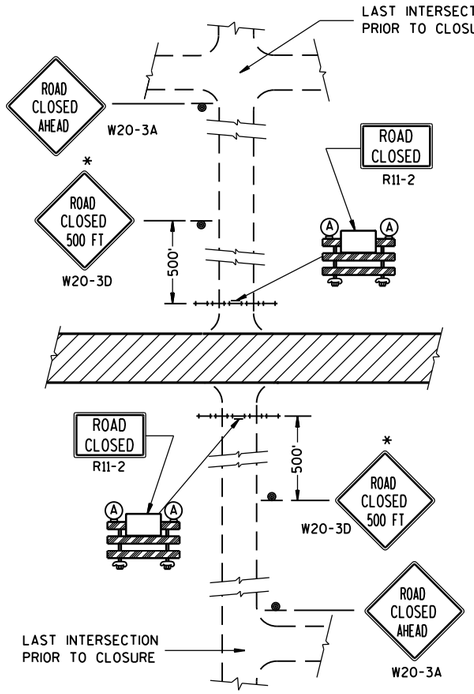
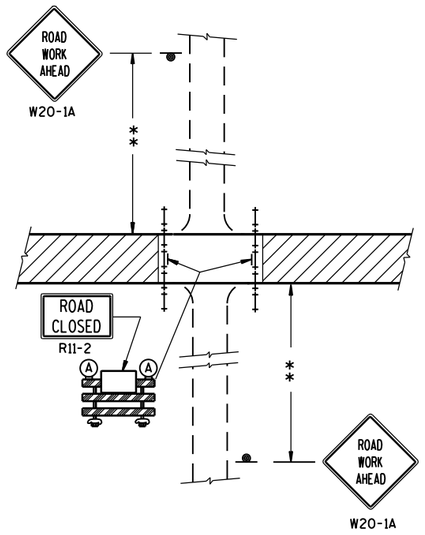
S.D.D. 15 C 2-6c



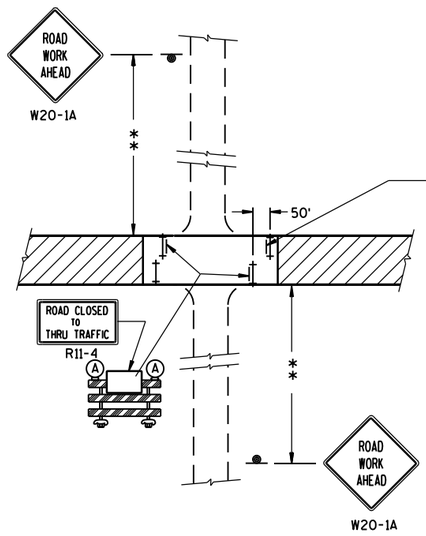
DETAIL 1

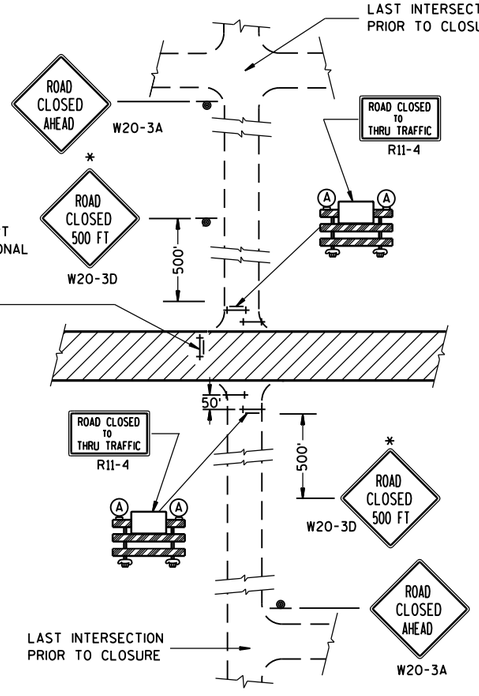
(NO ACCESS TO PROJECT)



DETAIL 2

(PUBLIC CROSS-TRAFFIC MAINTAINED. NO ACCESS TO PROJECT).





DETAIL 3

(PUBLIC CROSS-TRAFFIC MAINTAINED. CONTRACTOR, LOCAL BUSINESS AND RESIDENT ACCESS).

DETAIL 4

(CONTRACTOR, LOCAL BUSINESS AND RESIDENT ACCESS TO PROJECT)

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL D FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3 AND R11-4 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
R11-2 SHALL BE 48" X 30".
R11-4 AND R11-3 SHALL BE 60" X 30".

*OMIT THE "ROAD CLOSED 500 FT." SIGN IF THE LAST INTERSECTION IS 500 FT. OR LESS FROM THE WORK ZONE.

**500' MAX. OR AT LAST INTERSECTION WHICHEVER IS CLOSER.

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2015 — DATE
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZO[illegible]FIC SAFETY ENGI[illegible]
FHWA

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S.D.D. 15 C 3-3

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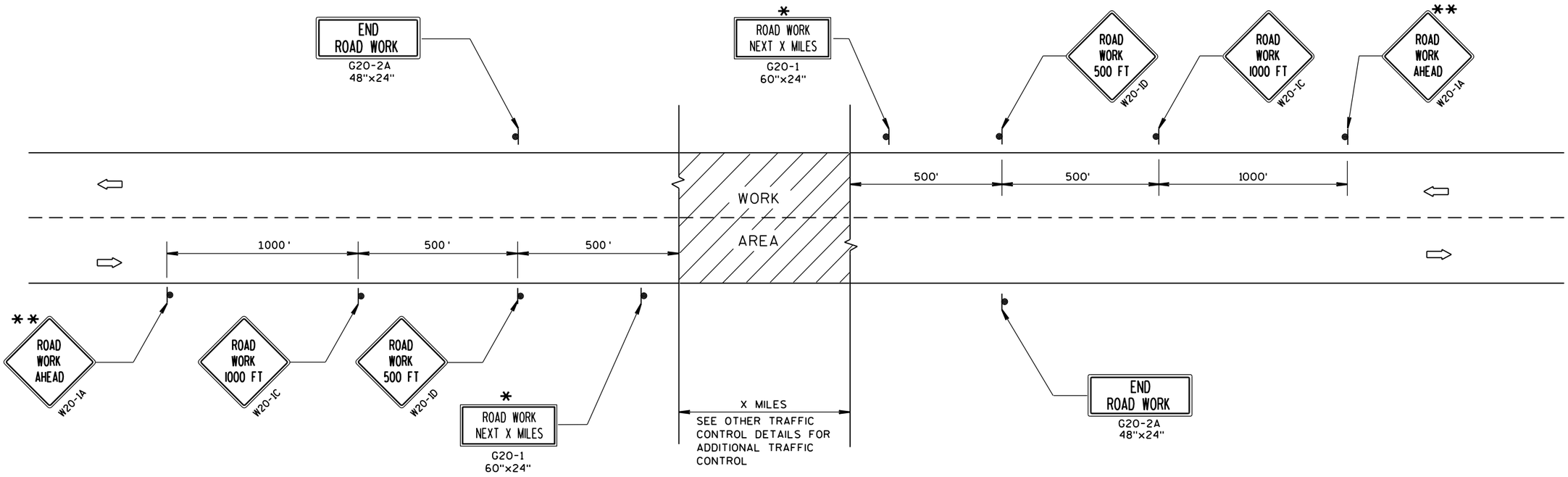
S.D.D. 15 C 3-3



TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

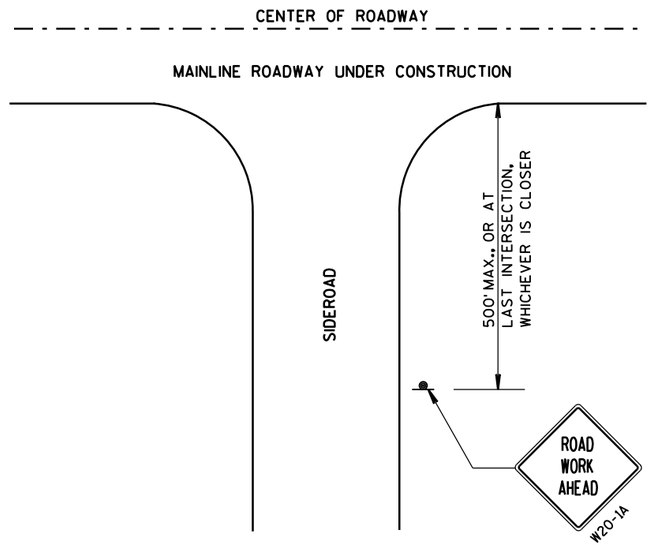
ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

* OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

** PLACE ADDITIONAL W20-1A "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.



LEGEND

- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

Sept. 2015	/S/ Peter Amakobe Atepe
DATE	STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER

FHWA

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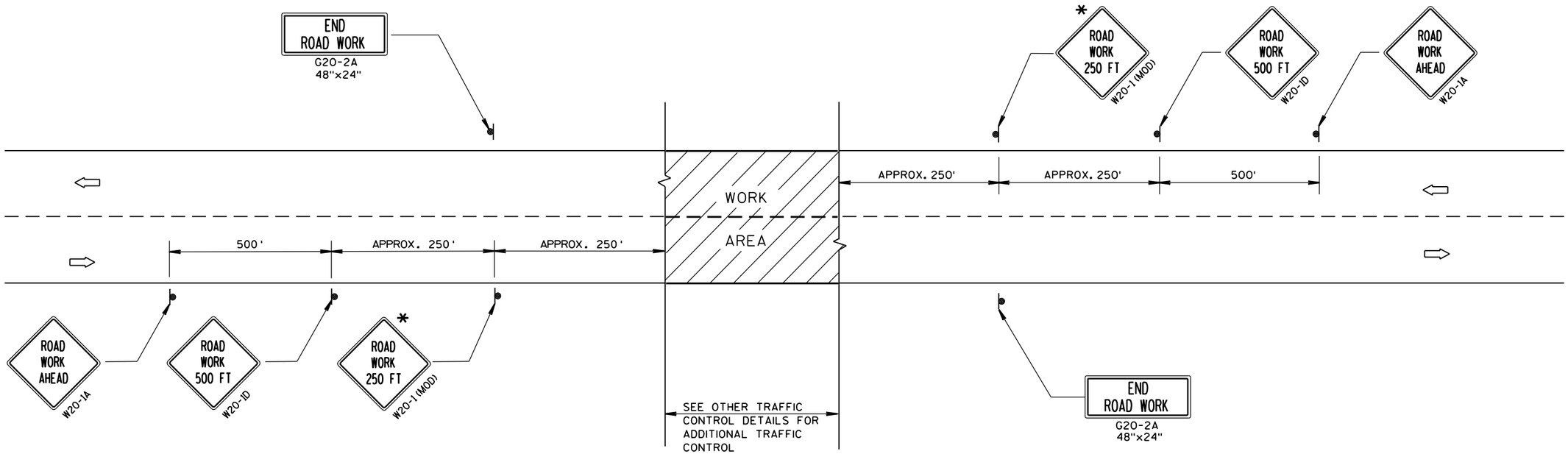
S.D.D. 15 C 4-3



TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

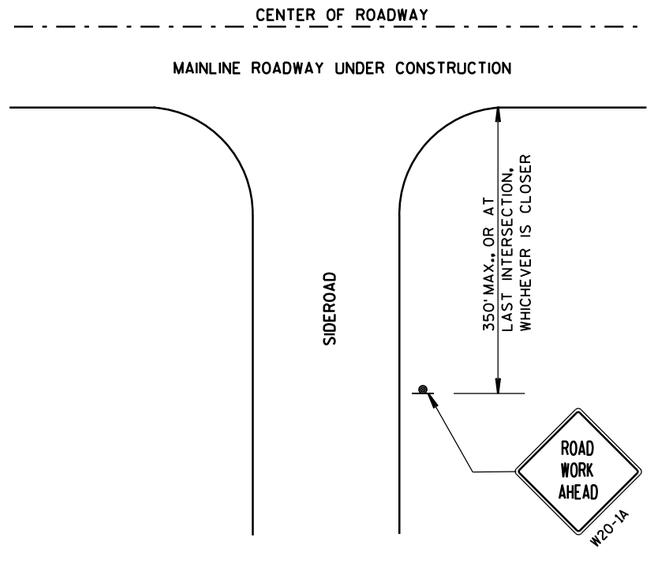
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"x36" SIGNS MAY BE USED INSTEAD OF 48"x48" SIGNS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

* THE THIRD W20-1 SIGN IS REQUIRED ONLY IF THERE IS AN INTERSECTION BETWEEN THE "ROAD WORK 500 FT" SIGN AND THE WORK ZONE. ADJUST THE PLACEMENT OF THIS SIGN BASED ON INTERSECTION LOCATION AND OTHER FIELD CONDITIONS.



LEGEND

- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2015 — DATE
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZOI — SAFETY ENGIN
IC
FHWA

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S.D.D. 15 C 5-3

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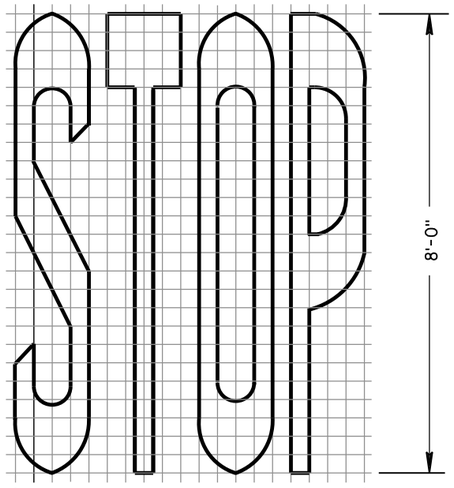
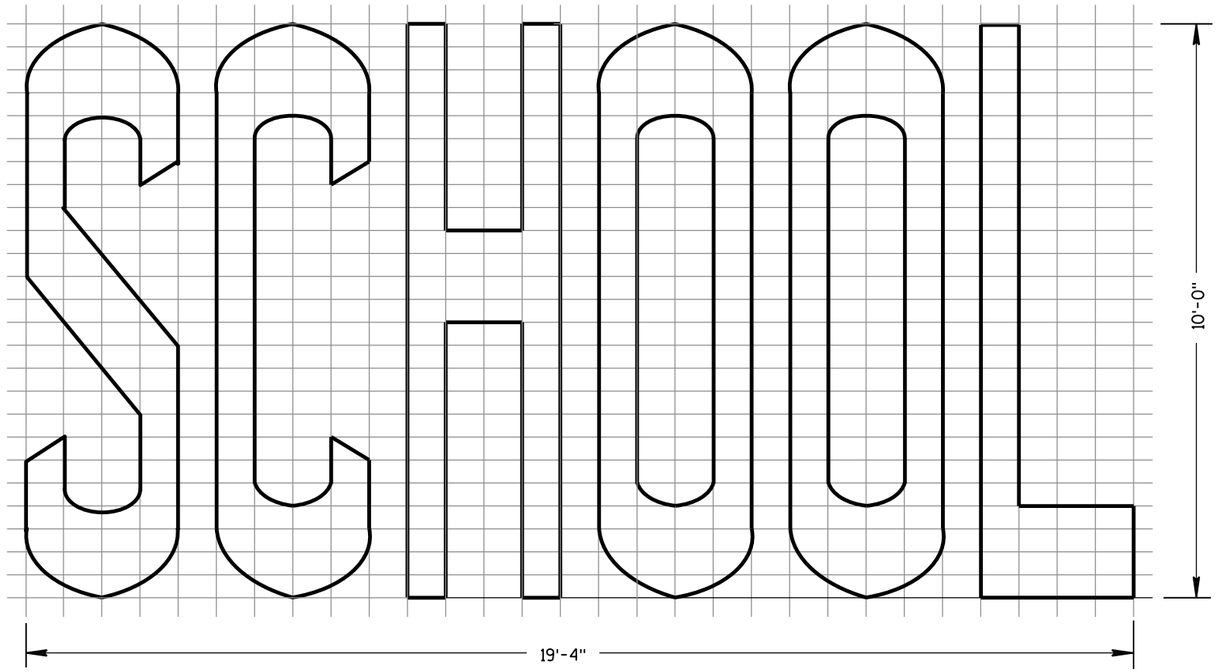
S.D.D. 15 C 5-3

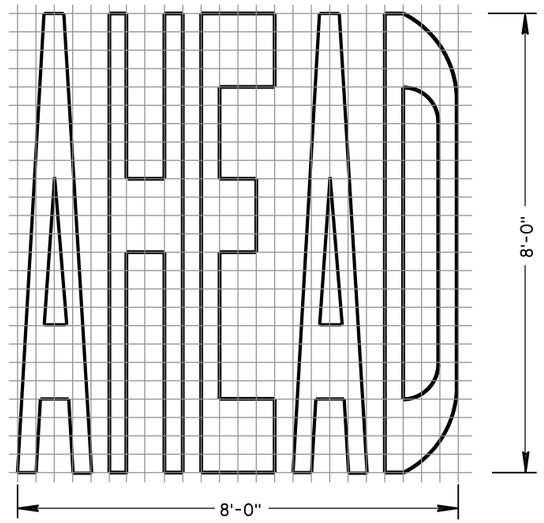
GENERAL NOTES

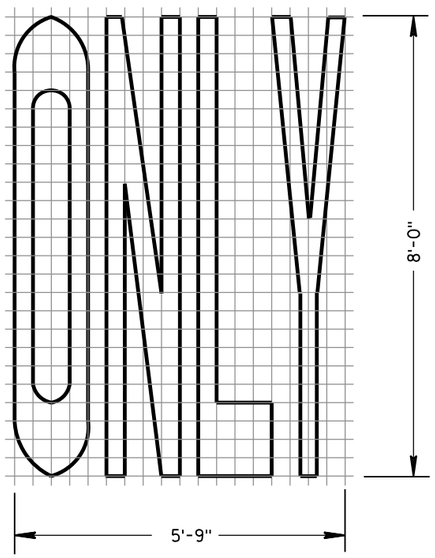
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

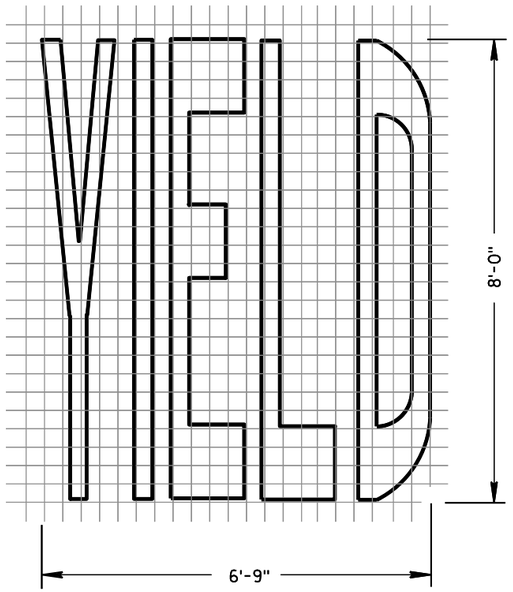


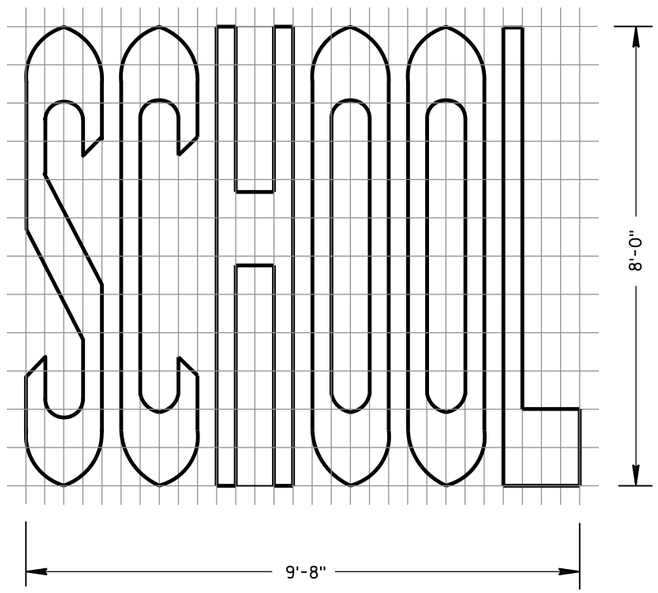


TWO-LANE









SINGLE-LANE

PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

4-18-16	/S/ Matthew R. Rauch	
DATE	STATE SIGNING AND MARK	EER

FHWA

6

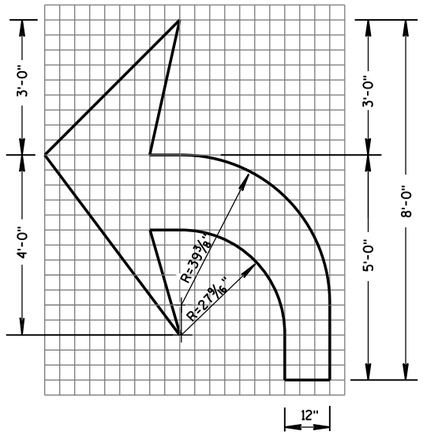
S.D.D. 15 C 7-13b

6

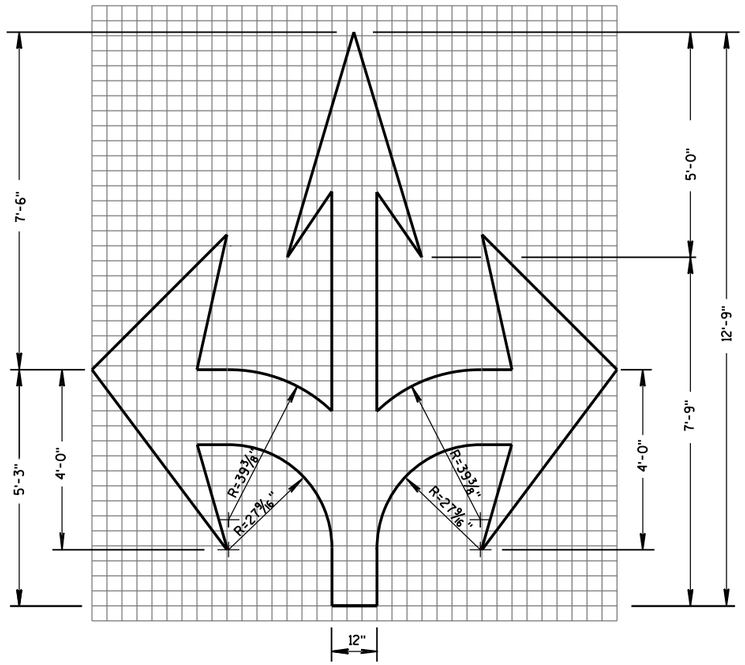
S.D.D. 15 C 7-13b

GENERAL NOTES

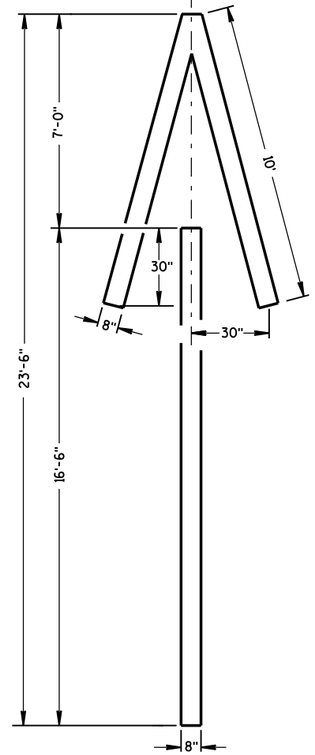
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



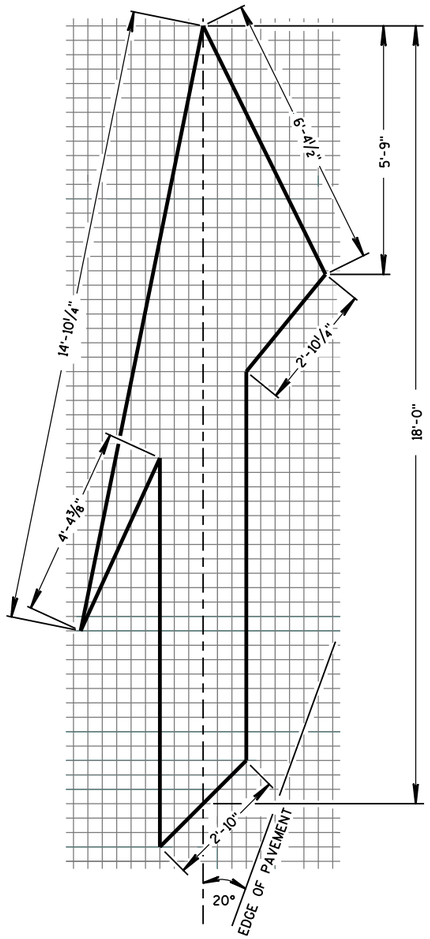
TYPE 2



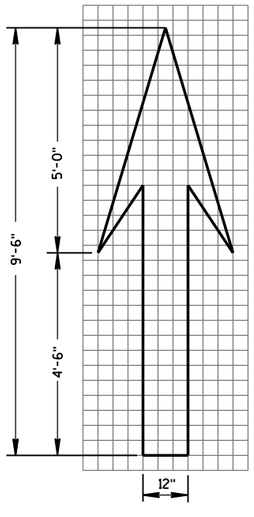
TYPE 6



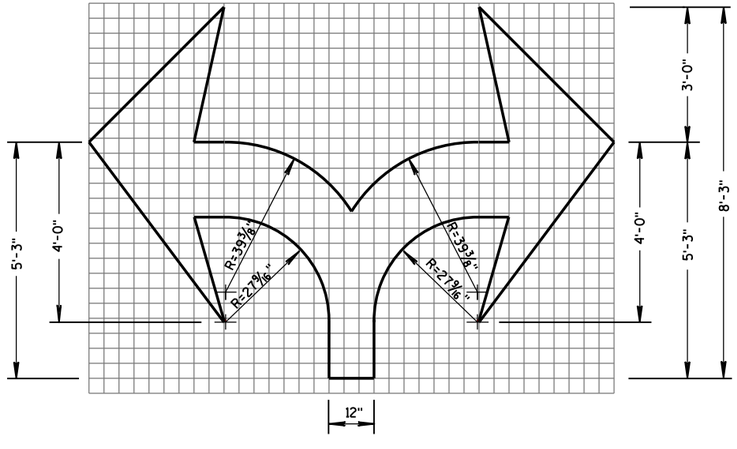
TYPE 4



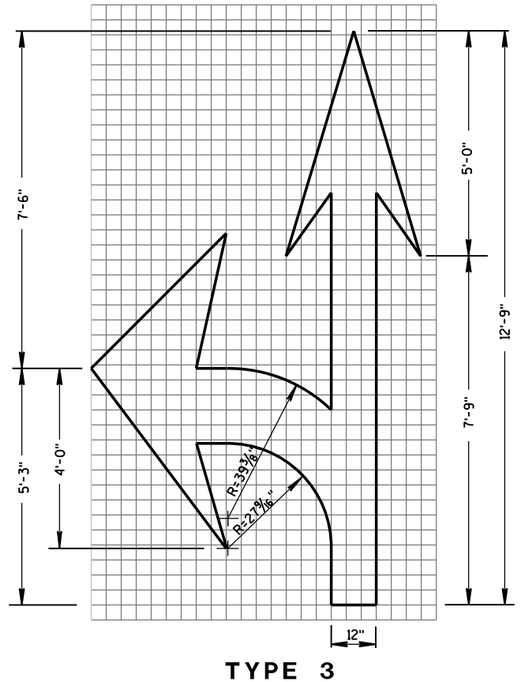
TYPE 5 LANE DROP ARROW



TYPE 1



TYPE 7



TYPE 3

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4-18-16 DATE
/S/ Matthew R. Rauch
STATE SIGNING AND MAR[illegible]NEER
FHWA

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S.D.D. 15 C 7-13c

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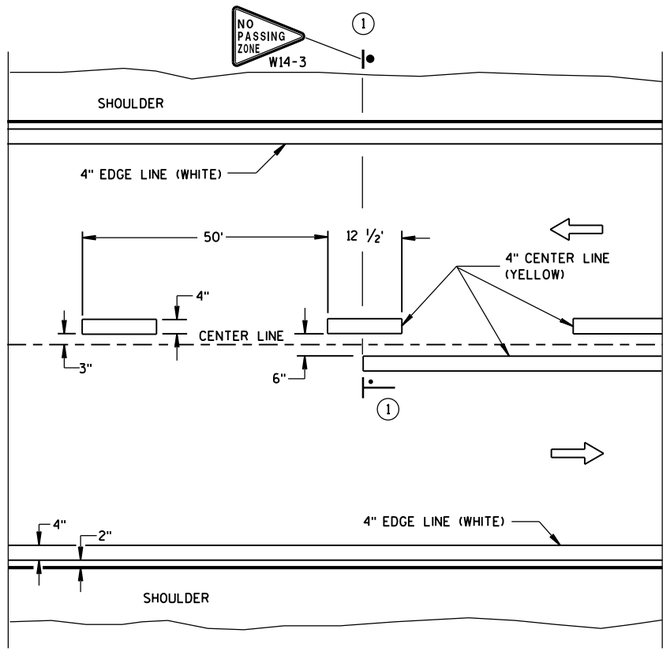
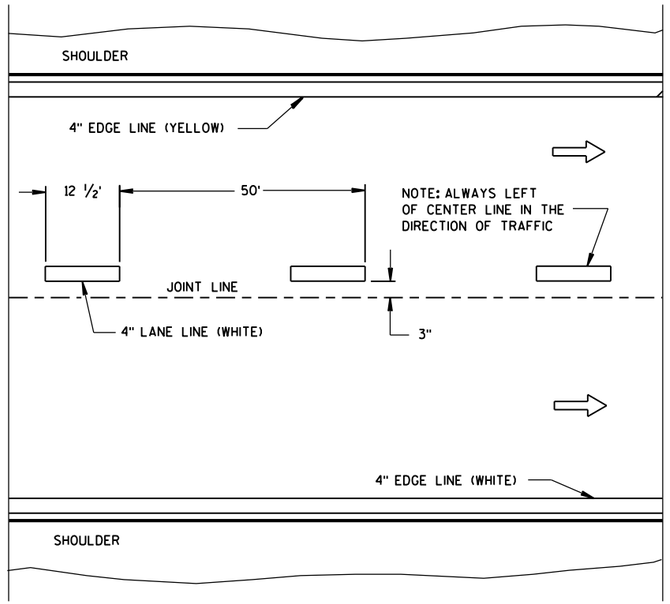
S.D.D. 15 C 7-13c



TWO WAY TRAFFIC



ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

(1) NO PASSING ZONE W14-3 SIGN SHALL BE LOCATED WITHIN 50 FEET OF THE "T" MARKING.

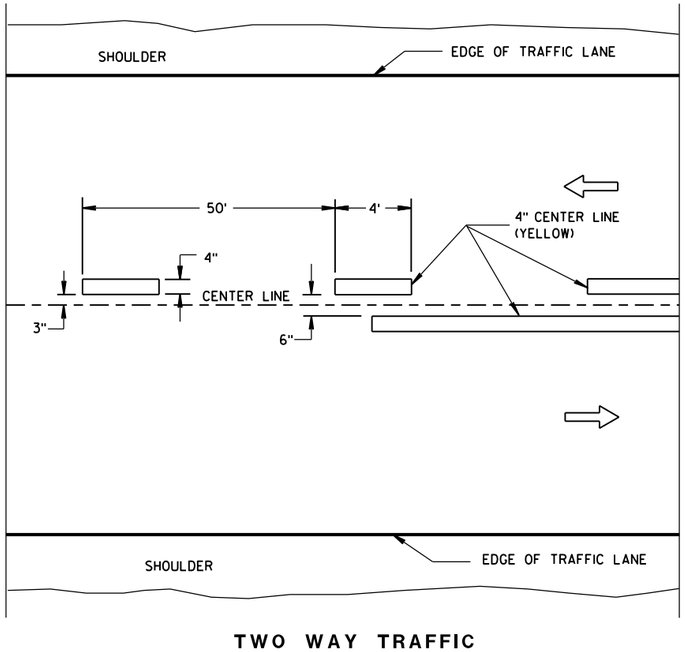
NOTE

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

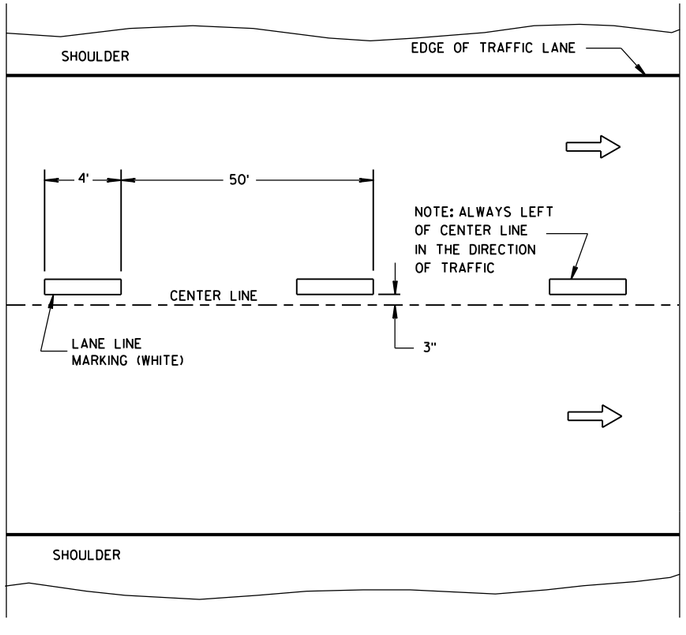
LEGEND

"T" MARKING

POST MOUNTED SIGN



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY PAVEMENT MARKING

LONGITUDINAL MARKING (MAINLINE)	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
Sept., 2016	/S/ Matthew R. Rauch
DATE	STATE SIGNING AND MAR[illegible] INEER
FHWA	

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S.D.D. 15 C 8-17a

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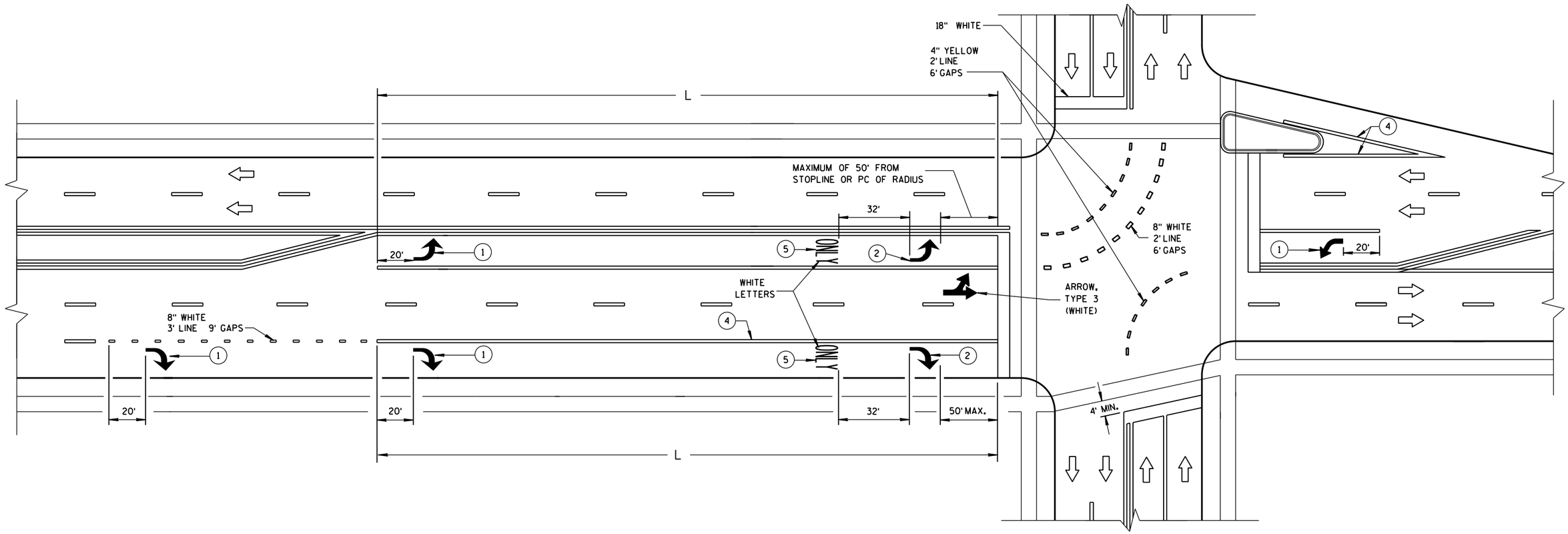
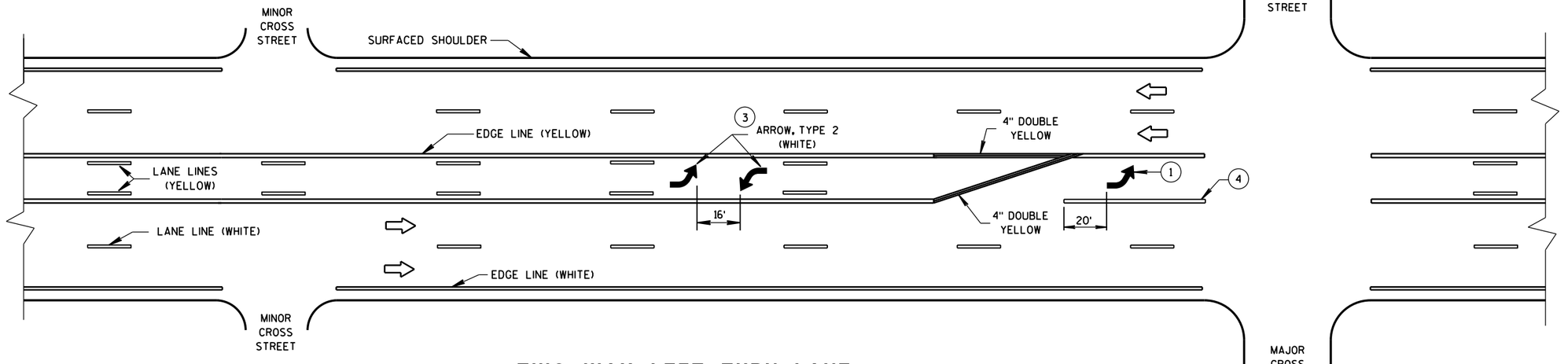
S.D.D. 15 C 8-17a





GENERAL NOTES

(1) REQUIRED ARROW, TYPE 2 (WHITE).

(2) REQUIRED ARROW, TYPE 2 (WHITE) WHEN L IS GREATER THAN 78 FEET AND LESS THAN OR EQUAL TO 166 FEET.

(3) A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.

(4) 8" WHITE

(5) REQUIRED WORD ONLY WHEN L IS GREATER THAN 166 FEET.

NOTE:
ARROW SYMBOL (⇨)
SHOWS DIRECTION OF TRAVEL

L = LENGTH OF TURN BAY

TWO WAY LEFT TURN LANE

PAVEMENT MARKING (TURN LANES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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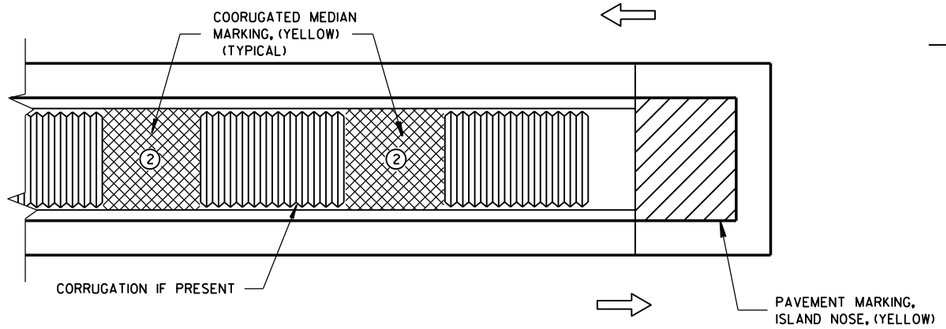
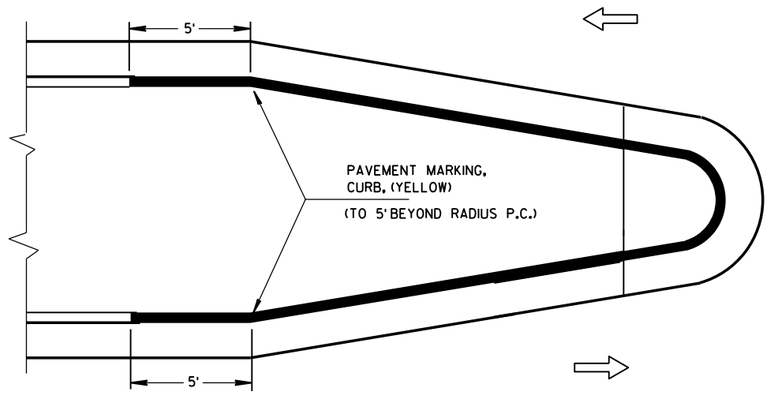
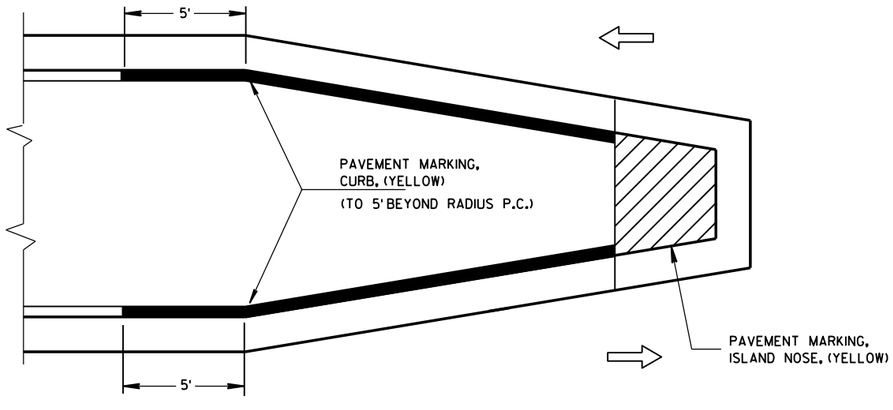
S.D.D. 15 C 8-17b



MEDIAN ISLAND WITH SQUARE BLUNT NOSE

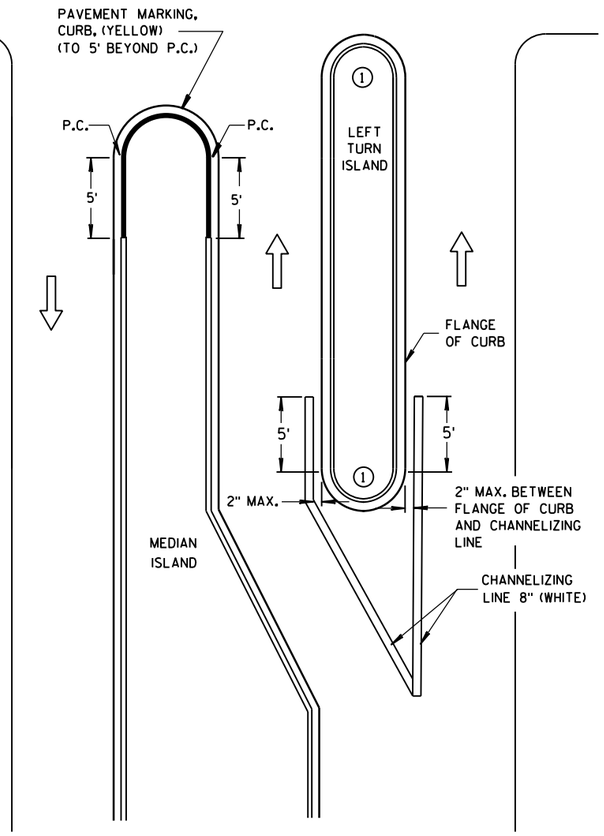


MEDIAN ISLAND WITH ROUND BLUNT NOSE



MEDIAN ISLAND WITH SLOPED NOSE

TYPICAL PLACEMENT OF PAVEMENT MARKING ON MEDIAN ISLANDS

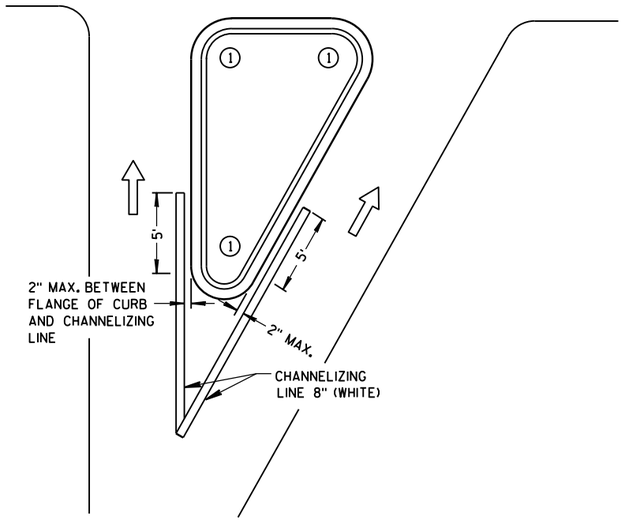


LEFT TURN & MEDIAN ISLAND

GENERAL NOTES

1. DO NOT MARK CURB NOSES THAT SEPARATE LANES OF TRAFFIC TRAVELING IN THE SAME DIRECTION.

2. WHEN CONCRETE CORRUGATED MEDIAN IS CONSTRUCTED TO SEPARATE TRAFFIC OPERATING IN THE OPPOSING DIRECTION YELLOW PAVEMENT MARKING SHALL BE APPLIED TO THE FLAT PORTION OF THE CONCRETE CORRUGATED MEDIAN. THE ITEM OF PAVEMENT MARKING, CONCRETE CORRUGATED MEDIAN, WILL BE MEASURED IN PLACE AND AND ACCEPTED IN ACCORDANCE WITH THE CONTRACT AND PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT.



RIGHT TURN ISLAND

LEGEND

- ISLAND NOSE MARKING
- CURB MARKING
- CORRUGATED MEDIAN MARKING
- DIRECTION OF TRAVEL

PAVEMENT MARKING
(ISLANDS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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S.D.D. 15 C 8-17c

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S.D.D. 15 C 8-17c

LEGEND

SIGN ON PORTABLE OR PERMANENT SUPPORT

DIRECTION OF TRAFFIC

WORK AREA

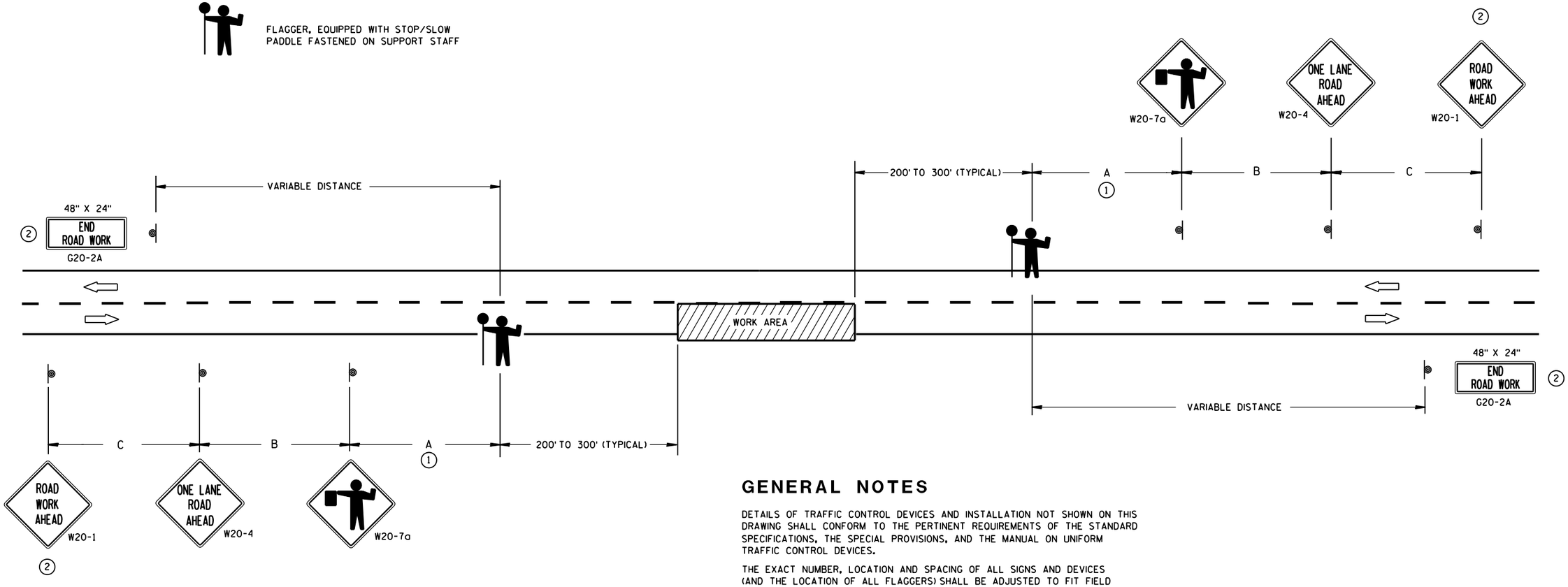
FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

SIGN SPACING TABLE

SPEED LIMIT	SIGN SPACING A,B,C
25-35 MPH	200'
35-40 MPH	350'
45-55 MPH	500'

W3-4

USE OF THE "BE PREPARED TO STOP" SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7a AND W20-4 SIGNS. A 500' TYPICAL SPACING SHALL BE PROVIDED BETWEEN THE SIGNS.



(1) FOR A MOVING WORK OPERATION,
SIGNING FOR BOTH DIRECTIONS SHALL BE REESTABLISHED (AS SIMULTANEOUSLY AS PRACTICAL) AT APPROXIMATELY 3500 FOOT INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.

(2) SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES (AND THE LOCATION OF ALL FLAGGERS) SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT, COVER OR REMOVE ALL TEMPORARY TRAFFIC CONTROL SIGNS.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
8/2013 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

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S.D.D. 15 C 12-4

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S.D.D. 15 C 12-4

LEGEND

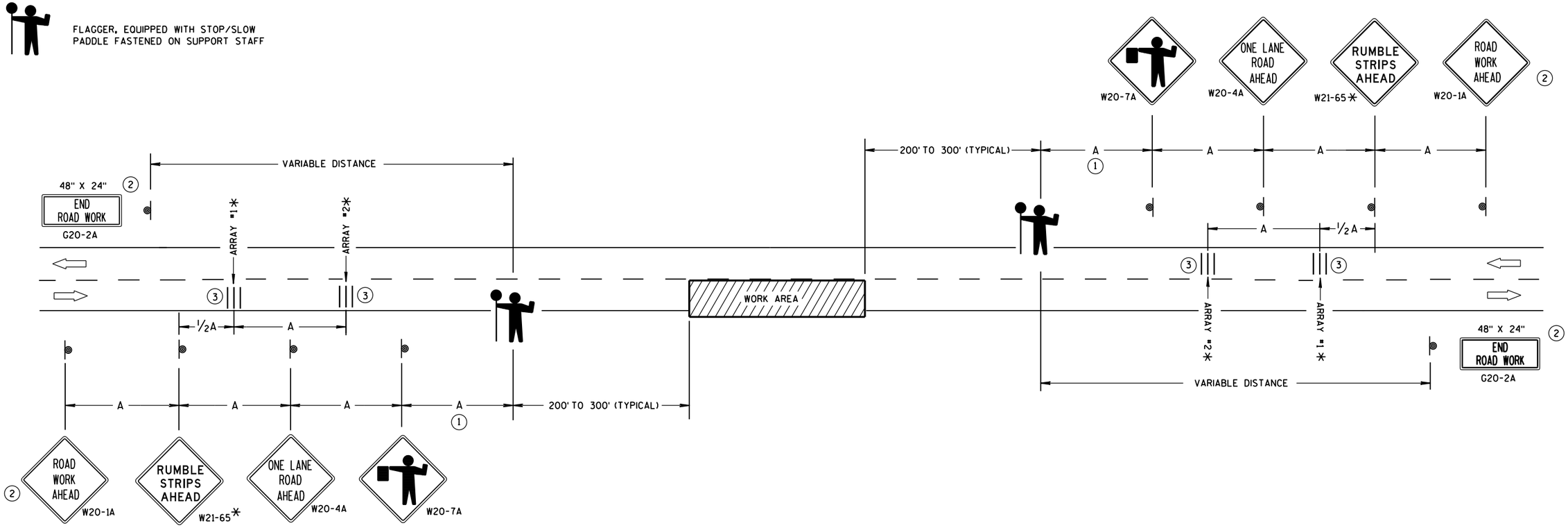
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

SPEED LIMIT	SPACING A
25-35 MPH	200'
35-40 MPH	350'
45-55 MPH	500'

W03-4

USE OF THE "BE PREPARED TO STOP" SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7A AND W20-4A SIGNS, USING SPACING A.



TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES (AND THE LOCATION OF ALL FLAGGERS) SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS.

PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT, REMOVE TEMPORARY RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.

* UTILIZE TEMPORARY RUMBLE STRIPS WHEN FLAGGING OPERATION IS ANTICIPATED TO BE STATIONARY IN EXCESS OF TWO HOURS.

(1) FOR A MOVING WORK OPERATION, SIGNING AND TEMPORARY RUMBLE STRIPS (IF USED) SHALL BE REESTABLISHED (AS SIMULTANEOUSLY AS PRACTICAL) AT APPROXIMATELY 3,500 FOOT INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.

(2) SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

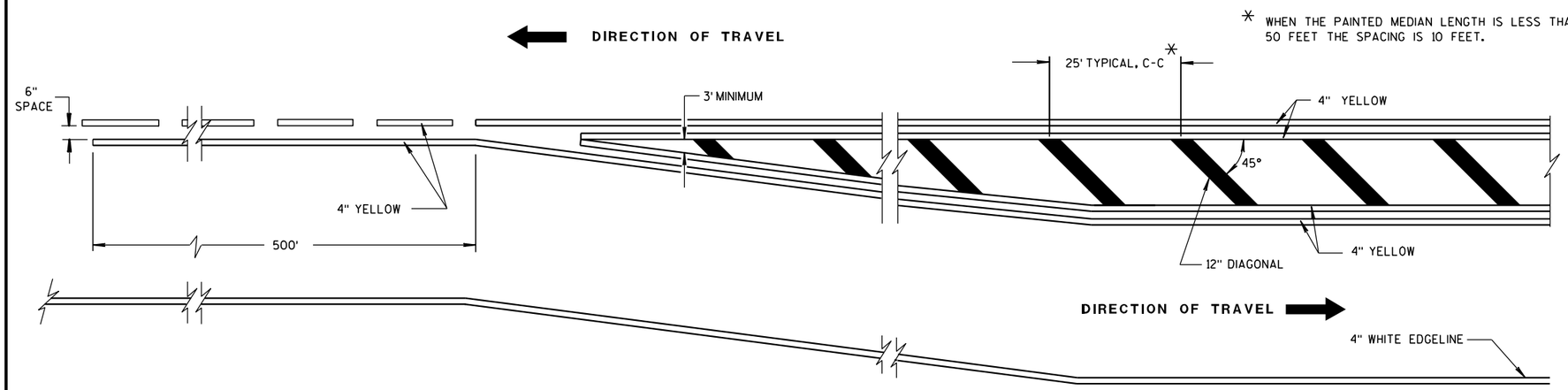
(3) EACH TEMPORARY RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS SPACED ACCORDING TO MANUFACTURER'S RECOMMENDATION, PLACED TRANSVERSE ACROSS THE LANE AT LOCATIONS SHOWN.

TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
December, 2016 — /S/ Andrew Heldtke
DATE — WORK ZONE ENG
FHWA

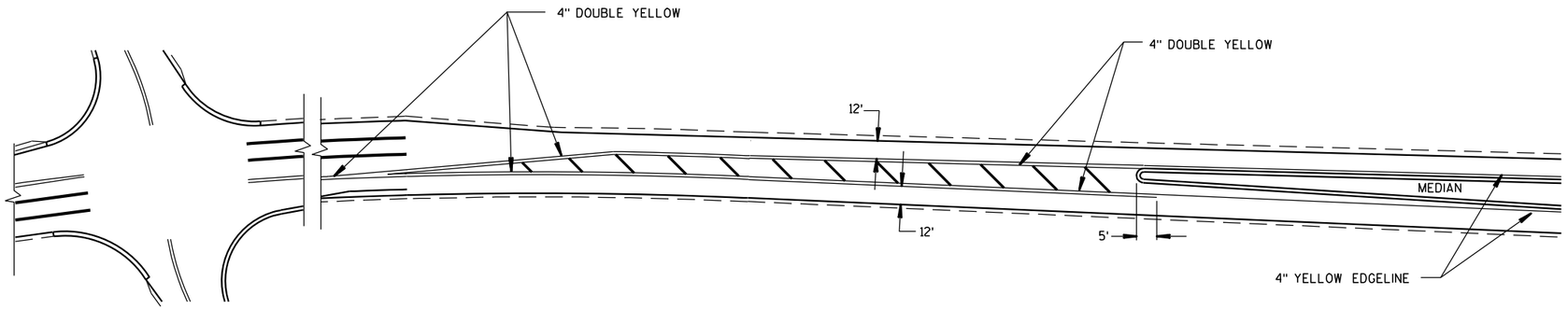
6
S.D.D. 15 C 12-5



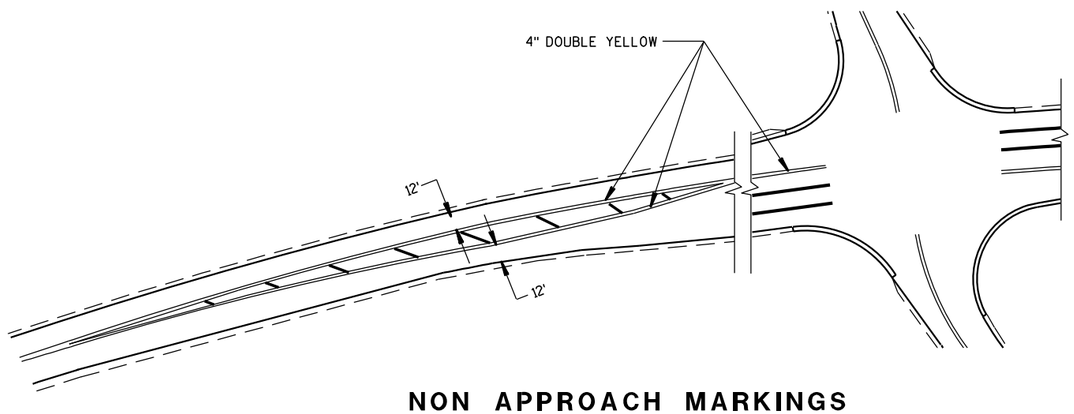
MEDIAN ISLAND DETAIL

GENERAL NOTE

DIAGONALS ARE OPTIONAL WHEN PAINTED ISLAND IS LESS THAN 6 FEET AT WIDEST POINT.



APPROACH MARKINGS FOR OTHER MEDIAN TYPES



NON APPROACH MARKINGS

MEDIAN ISLAND MARKING	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 2-5-09 DATE	/S/ Thomas N. Nothohm STATE TRAFFIC ENGINEER
FHWA	

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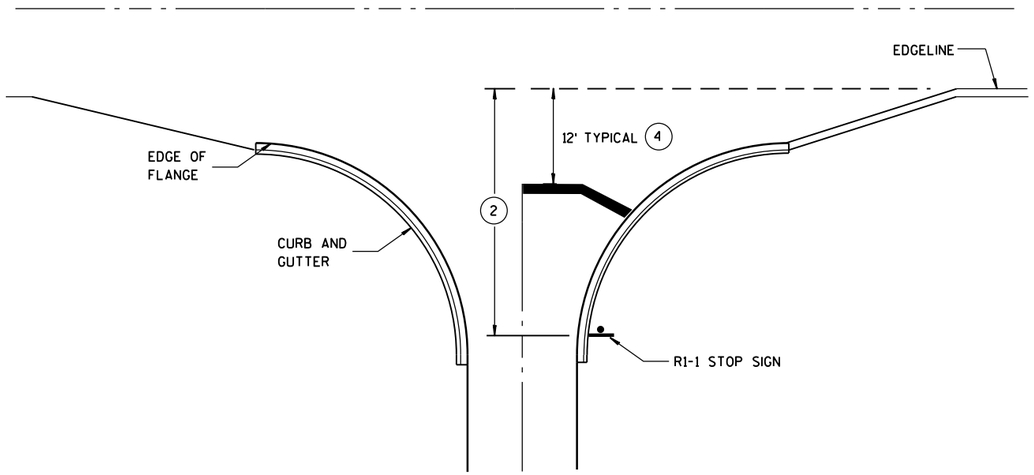
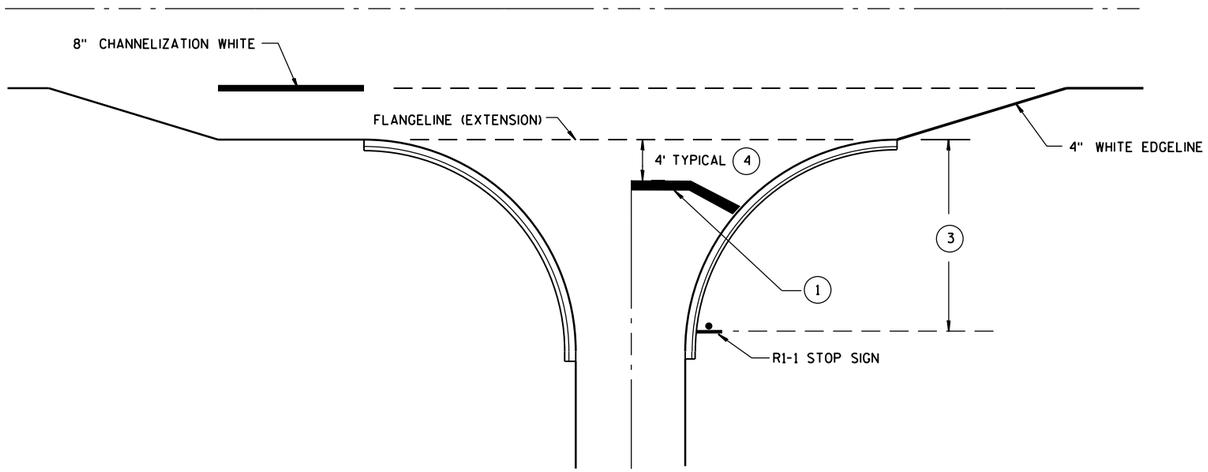
S.D.D. 15 C 18-3

6

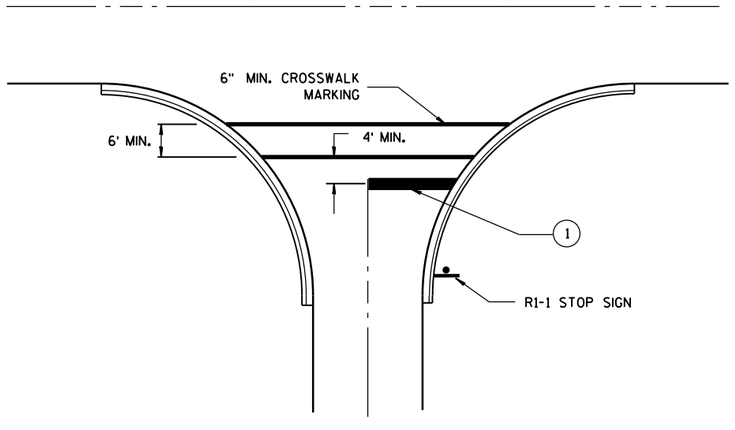
S.D.D. 15 C 18-3



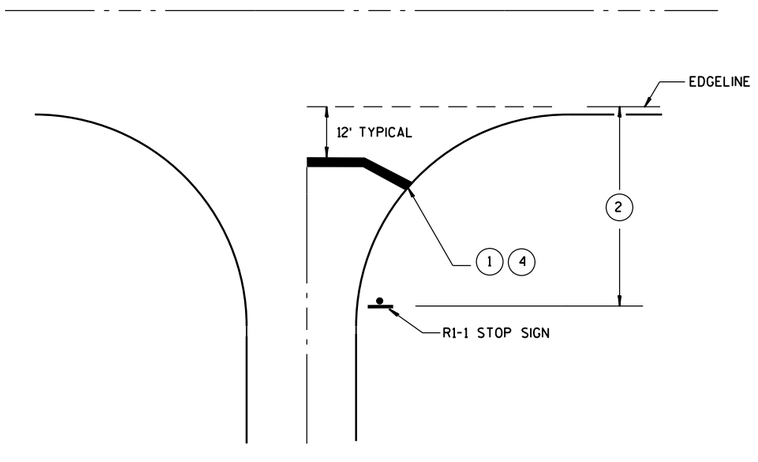
TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING



TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

GENERAL NOTES

1. 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE PROJECT ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
2. IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE THAN NO STOP LINE IS REQUIRED.
3. IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE EXTENSION THAN NO STOP LINE IS REQUIRED.
4. MOVE CLOSER TO EDGE OF TRAVEL LANE AS NEEDED FOR VISIBILITY AND SIGHT LINES. (NO CLOSER THAN 4 FEET).

STOP LINE AND CROSSWALK PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

4-18-2016
DATE

/S/ Matthew R. Rauch
STATE SIGNING AND MAR 177 NEER

FHWA

6

S.D.D. 15 C 33-2

GENERAL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY DISTRICT TRAFFIC UNIT.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

W20-1A AND G20-2A SIGNS ARE NOT REQUIRED IF THE WORK AREA IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT. G20-2A SIGNS MAY ALSO BE OMITTED IF DURATION OF WORK IS LESS THAN 7 CONTINUOUS DAYS AND NIGHTS.

CHANNELIZING DEVICES PLACED ADJACENT TO THE WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

TABLE A

S \ W	SHOULDER TAPER LENGTH (FEET) 4	6	8	10	BUFFER SPACE (FEET)
30	20	30	40	50	200
35	30	45	55	70	250
40	40	55	75	90	305
45	60	90	120	150	360
50	70	100	135	170	425
55	75	110	150	185	495

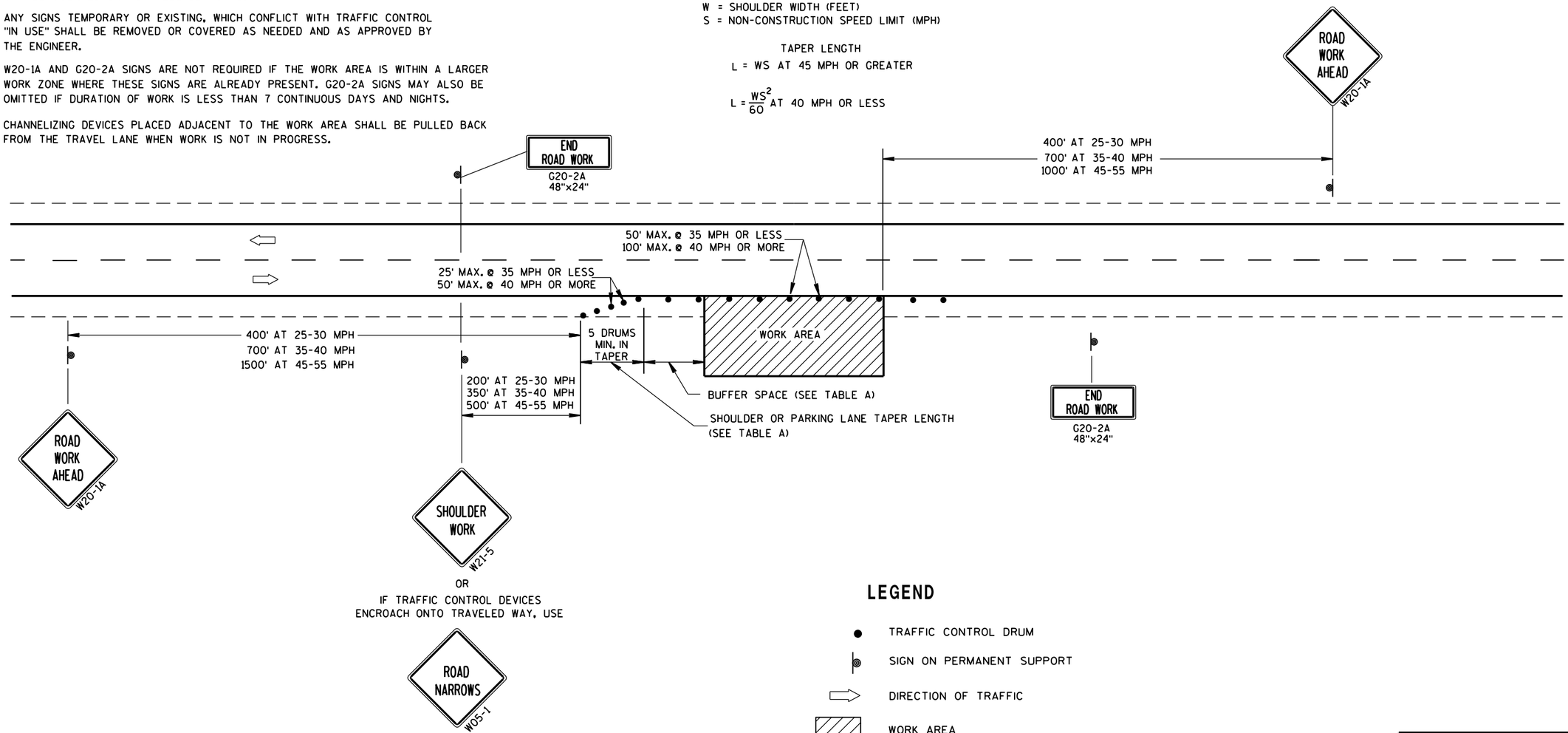
W = SHOULDER WIDTH (FEET)
S = NON-CONSTRUCTION SPEED LIMIT (MPH)

TAPER LENGTH

L = WS AT 45 MPH OR GREATER

$L = \frac{WS^2}{60}$ AT 40 MPH OR LESS

SHOULDER TAPER LENGTH = $\frac{1}{3}L$



LEGEND

- TRAFFIC CONTROL DRUM
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA

TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

July 14, 2015 — DATE

/S/ Peter Amakobe Atepe — STATEWIDE WORK ZO[illegible] SAFETY ENGI[illegible] FIC

FHWA

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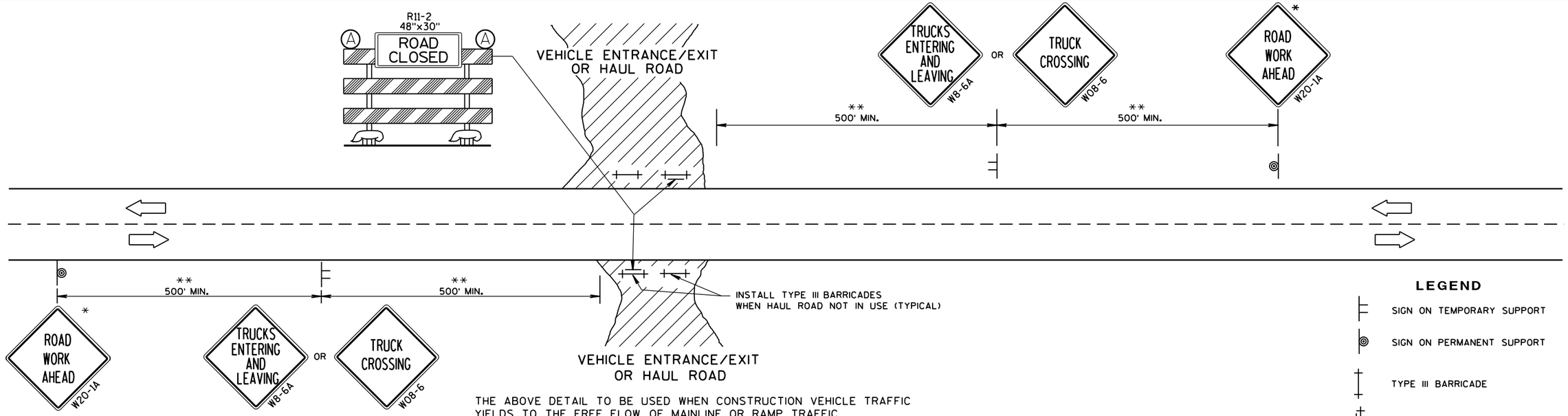
S.D.D. 15 D 28-3



THE ABOVE DETAIL TO BE USED WHEN CONSTRUCTION VEHICLE TRAFFIC YIELDS TO THE FREE FLOW OF MAINLINE OR RAMP TRAFFIC

LEGEND

- SIGN ON TEMPORARY SUPPORT
- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS, DEVICES AND FLAGGERS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

WHEN ACTIVITY REFLECTED BY THE SIGN IS NOT CURRENTLY TAKING PLACE, THE HIGHWAY SHALL BE RESTORED TO NORMAL CONDITION AND THE SIGNS SHALL BE REMOVED, COVERED OR TURNED AWAY FROM TRAFFIC.

WHEN A SIDE ROAD OR RAMP INTERSECTS WITHIN THE ADVANCE SIGNING AREA, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

* THESE SIGNS ARE TO BE USED ONLY WHEN VEHICLE **ENTRANCE/EXIT CONDITIONS ARE SEPARATED BY MORE THAN 2 MILES** FROM PREVIOUS WORK AREA OR SIGNING OR AS DIRECTED BY THE ENGINEER.

** 500 FEET SHOWN IS FOR ROADWAYS WITH A NON-CONSTRUCTION REGULATORY SPEED LIMIT OF 45 MPH OR MORE. FOR 35-40 MPH, USE 350 FEET. FOR 25-30 MPH, USE 200 FEET. USE 1000 FEET/1500 FEET FOR EXPRESSWAY/FREEWAY.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

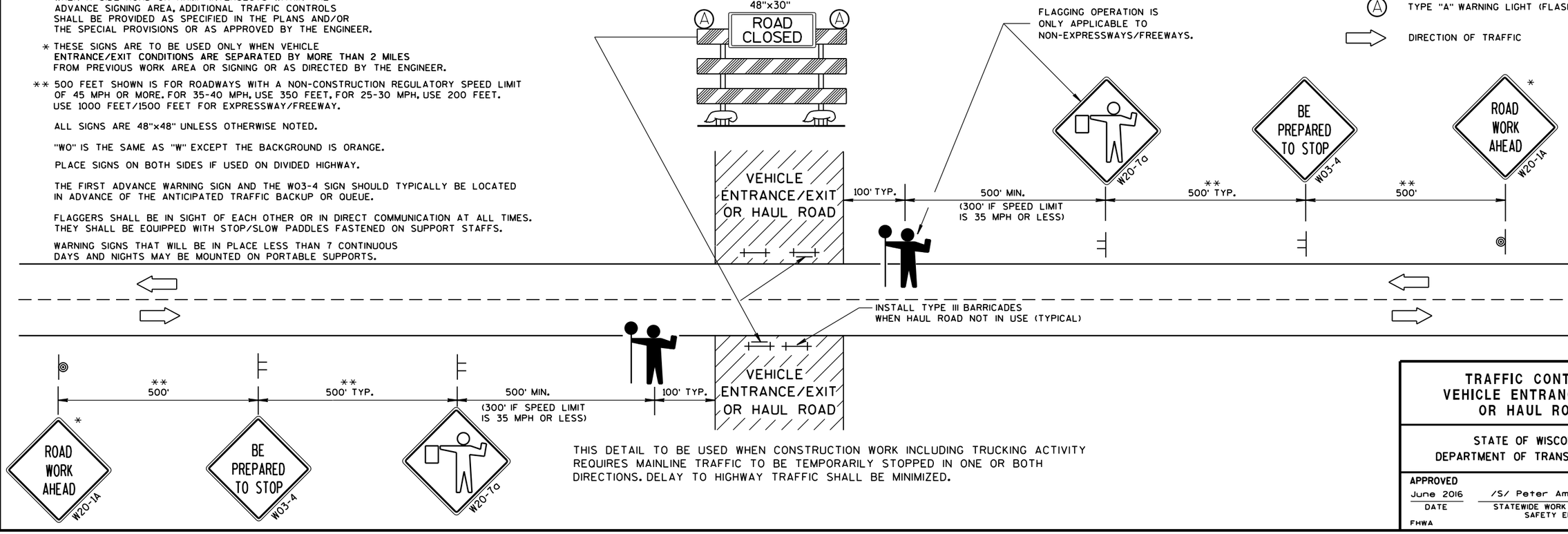
"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

PLACE SIGNS ON BOTH SIDES IF USED ON DIVIDED HIGHWAY.

THE FIRST ADVANCE WARNING SIGN AND THE W03-4 SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS.

WARNING SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.



THIS DETAIL TO BE USED WHEN CONSTRUCTION WORK INCLUDING TRUCKING ACTIVITY REQUIRES MAINLINE TRAFFIC TO BE TEMPORARILY STOPPED IN ONE OR BOTH DIRECTIONS. DELAY TO HIGHWAY TRAFFIC SHALL BE MINIMIZED.

TRAFFIC CONTROL, VEHICLE ENTRANCE/EXIT OR HAUL ROAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

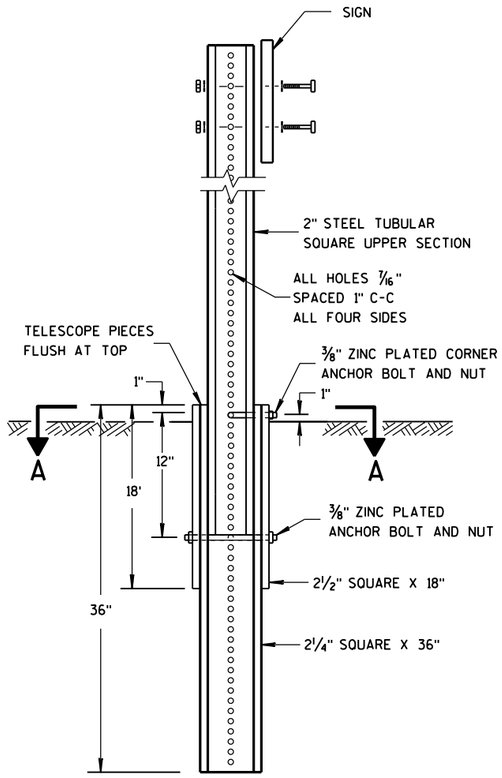
APPROVED

June 2016	/S/ Peter Amakobe Atepe
DATE	STATEWIDE WORK ZONE SAFETY ENGINEER

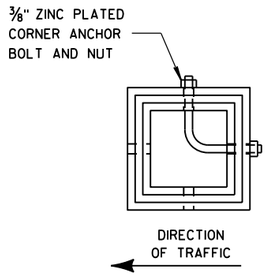
FHWA

6

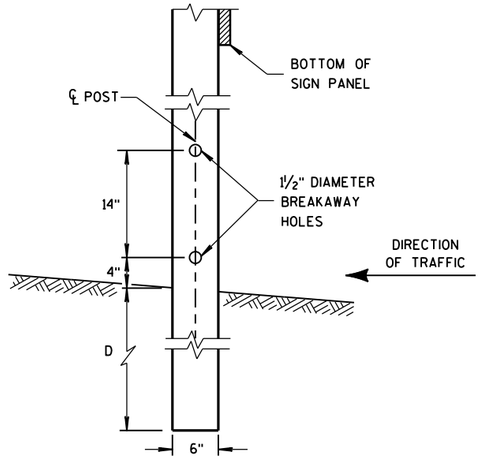
S.D.D. 15 D 29-4



DETAIL OF TUBULAR STEEL SIGN POST



SECTION A-A



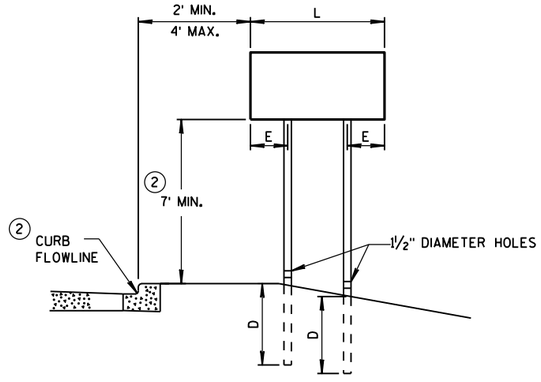
4"x6" WOOD POST MODIFICATION

GENERAL NOTES

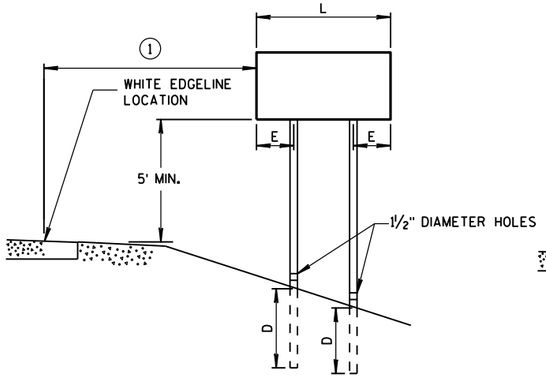
(1) 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.

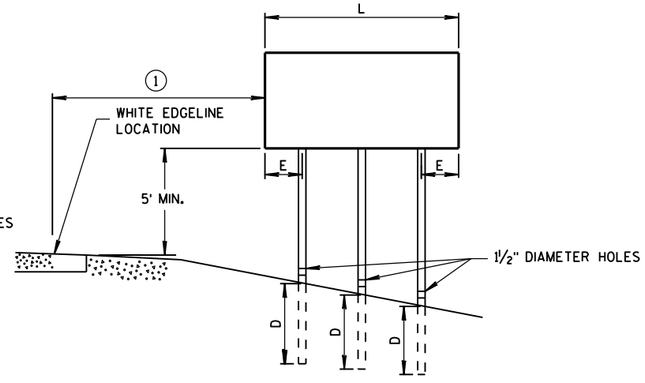
(2) THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY MEASURED WHERE THERE IS SIDEWALK ADJACENT TO THE ROADWAY OR PARKING IS PERMITTED. IN THE ABSENCE OF SIDEWALK, VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE CURB. IF NO SIDEWALK AND NO PARKING, VERTICAL CLEARANCE MAY BE REDUCED TO 5 FOOT MINIMUM. OFFSET OF SIGNS IS MEASURED FROM THE CURB FLOWLINE.

(3) FOR SIGNS REQUIRING 4 POSTS, SPACE INTERMEDIATE POSTS EVENLY.



URBAN AREA





RURAL AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

TUBULAR STEEL POSTS

AREA OF SIGN INSTALLATION (SQ. FT.)	NUMBER OF REQUIRED TUBULAR STEEL POSTS
9 OR LESS	1
GREATER THAN 9 LESS THAN OR EQUAL TO 18	2
GREATER THAN 18 LESS THAN OR EQUAL TO 27	3

SIGNS WIDER THAN 3 FEET OR LARGER THAN 9 SQ. FT. SHALL BE MOUNTED ON MULTIPLE POSTS (SEE ABOVE TABLE).

SIGNS LARGER THAN 27 SQ. FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.

WOOD POST EMBEDMENT DEPTH

AREA OF SIGN INSTALLATION (SQ. FT.)	D (MIN)
20 OR LESS	4'
GREATER THAN 20	5'

4" X 6" WOOD POST

POST SPACING REQUIREMENTS		NUMBER OF WOOD POSTS REQUIRED
L	E	
48" OR LESS AND LESS THAN 20 SQ. FT.	-	1
LESS THAN 60"	12"	2
60" TO 120"	L/5	2
GREATER THAN 120" LESS THAN 168"	12"	3
168" AND GREATER	12"	4

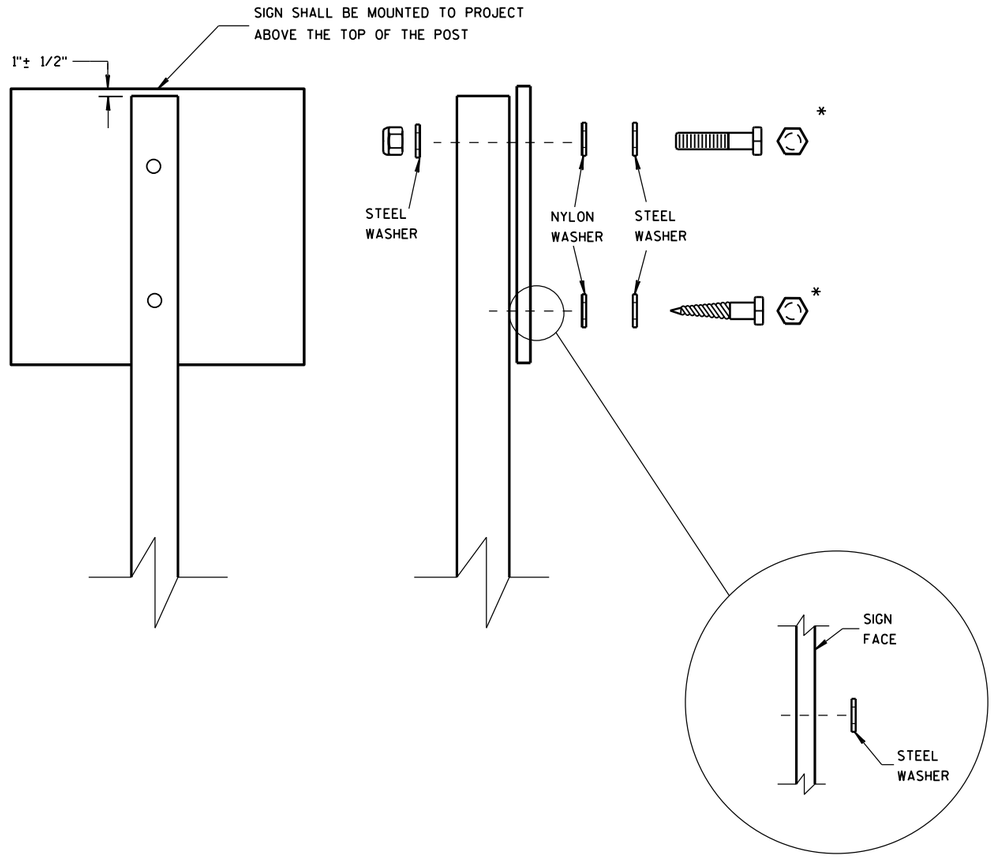
SEE NOTE (3)

TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

STATE OF WISCONSIN DEPARTMENT OF TRANSPOR

6

S.D.D. 15 D 38-1a



WASHER PLACEMENT WHEN SIGN HAS OTHER THAN TYPE H OR TYPE F FACE

NUTS, BOLTS AND LAGS USED FOR MOUNTING SIGNS SHALL HAVE HEXAGONAL HEADS AND SHALL BE EITHER:

A. HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: A 153, CLASS D, OR SC 3

B. ELECTRO-GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: B 633, TYPE III, SC 3

THREADS ON BOLTS AND NUTS SHALL BE MANUFACTURED WITH SUFFICIENT ALLOWANCE FOR THE CADMIUM PLATE OR GALVANIZED COATING TO PERMIT THE NUTS TO RUN FREELY ON THE BOLTS.

WOOD POSTS (4" x 4" or 4" x 6")

LAG SCREWS - 3/8" X 3"

MACHINE BOLTS - 5/16" X 6-1/2" OR 7" LENGTH W/ NUTS

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" LENGTH W/ NUTS

RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL

1-1/4" O.D. X 3/8" I.D. X .080 NYLON FOR ALL TYPE H SIGNS

* TWO DIFFERENT FASTENING SYSTEMS ARE SHOWN FOR ILLUSTRATION PURPOSES. ON ANY INDIVIDUAL SIGN, EITHER ONE OR THE OTHER SYSTEM SHALL BE USED. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA. FOR A SINGLE POST INSTALLATION, ALL SIGNS GREATER THAN 9 SQ. FT. REQUIRE THE USE OF 3 FASTENERS.

6

6

S.D.D. 15 D 38-1b

S.D.D. 15 D 38-1b

ATTACHMENT OF SIGNS TO POSTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

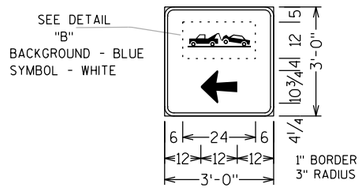
Feb. 2015 — DATE

/S/ Travis Feltes — STATE TRAFFIC ENGINEER

FHWA

SIGN

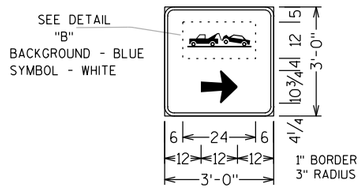
CRASH INVESTIGATION SITE TRAILBLAZERS



SIGN NUMBER

2P03

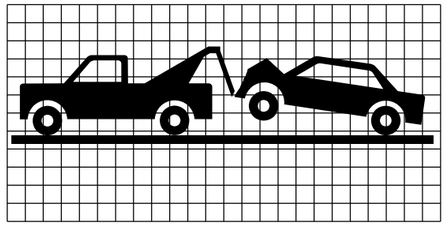
SERIES "C" LETTERS
TYPE II SIGN



SIGN NUMBER

2P10

SERIES "C" LETTERS
TYPE II SIGN



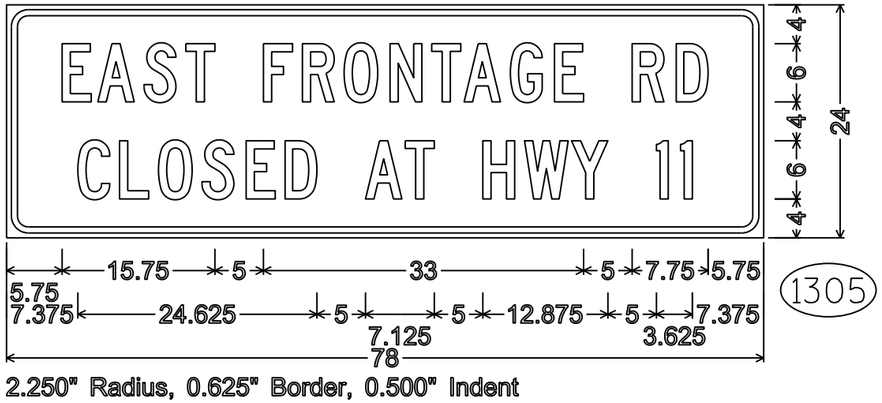
DETAIL "B"

GENERAL NOTES:

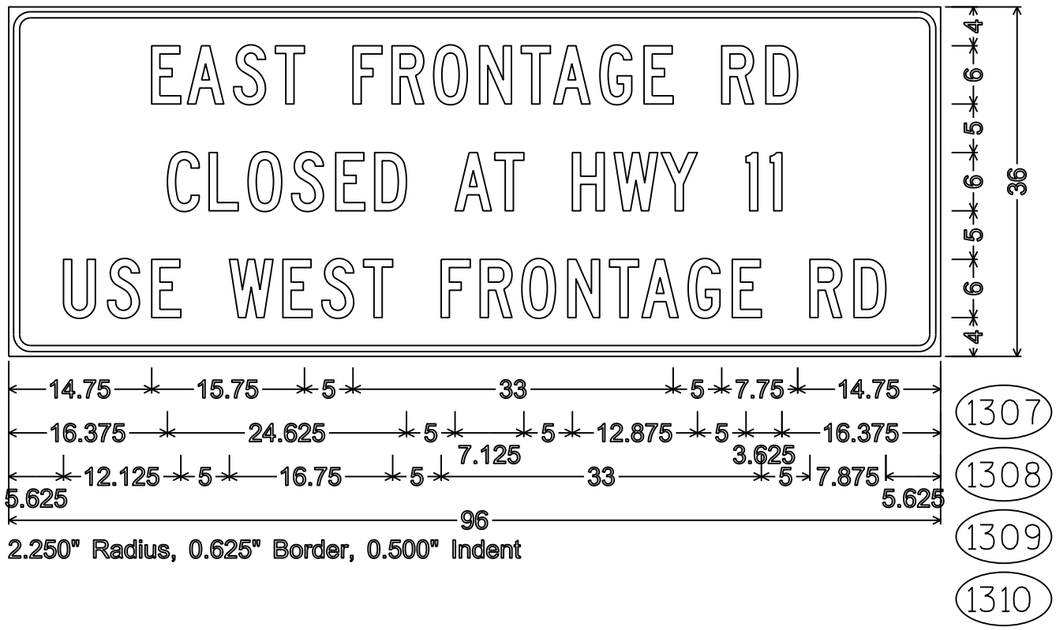
1. DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE PLANS.
2. UNLESS OTHERWISE NOTED, ALL SIGNS SHOWN ON THIS SHEET ARE "SIGNS, TYPE II".
3. UNLESS OTHERWISE NOTED, TYPE II SIGNS ON THIS SHEET SHALL HAVE "TYPE H REFLECTIVE SHEETING" AND, "TYPE H MESSAGE MATERIAL". TYPE I SIGNS SHALL HAVE TYPE SH SHEETING.
4. UNLESS OTHERWISE NOTED, ALL SIGNS SHOWN ON THIS SHEET SHALL HAVE A BLUE BACKGROUND AND WHITE MESSAGE.
5. ALL UPPER CASE MESSAGE (EXCEPT ON SHIELDS OR WHERE OTHERWISE NOTED) SHALL BE "SERIES E". ALL LOWERCASE MESSAGE WITH AN INITIAL UPPERCASE LETTER SHALL BE "SERIES E".
6. UNLESS OTHERWISE NOTED, ALL SIGNS SHOWN ON THIS SHEET SHALL HAVE "TYPE A" OR "TYPE C" ARROWS AS SHOWN. SEE THE STANDARD SIGN PLATES FOR FURTHER DETAILS.
7. SEE THE STANDARD SIGN PLATES FOR FURTHER DETAILS ON ROUTE MARKER SHIELDS.
8. THE SIGN NUMBER IS DENOTED IN THE CIRCLE NEAR EACH DETAIL.
9. DO NOT SCALE.

NOTES

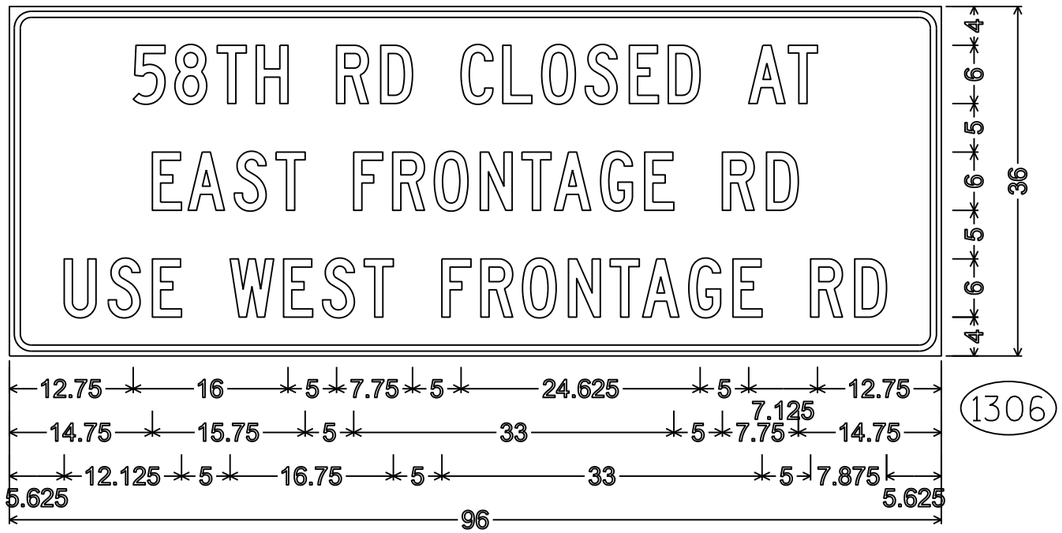
1. Fixed Message Type II Signs - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C



2.250" Radius, 0.625" Border, 0.500" Indent



2.250" Radius, 0.625" Border, 0.500" Indent



2.250" Radius, 0.625" Border, 0.500" Indent

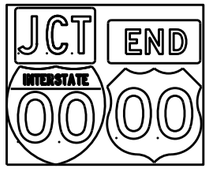
7

7

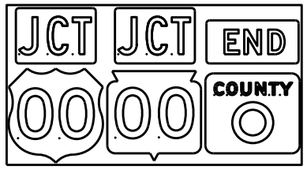
PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	TEMPORARY SIGNING	SHEET NO: 183	E

TYPICAL ASSEMBLIES

J1-1

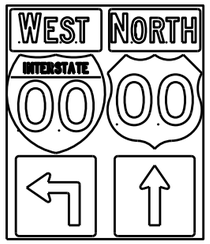


J1-2

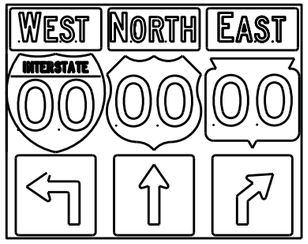


J1-3

J2-1



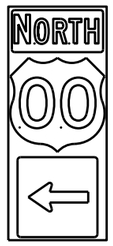
J2-2



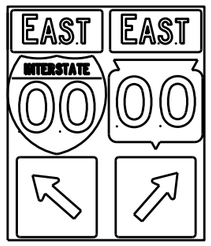
J2-3

JV

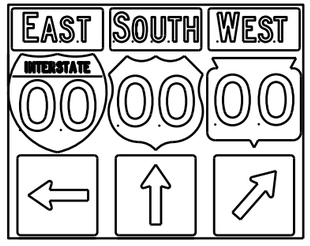
(Typical Vertical J-Assembly
See Note 10 and 11)



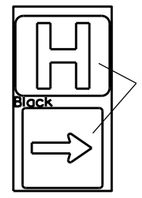
J3-1



J3-2



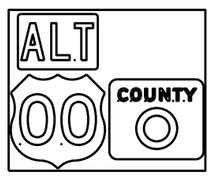
J3-3



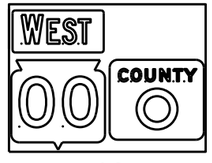
Blue Background

JH-1

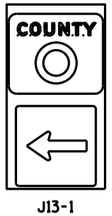
J4-1



J4-2



J4-2



J13-1

J12-1

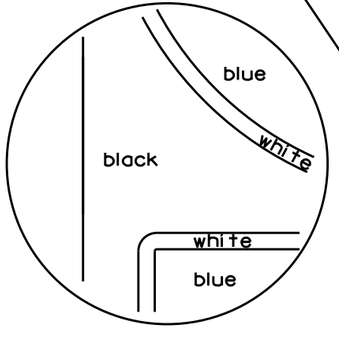
J32-1

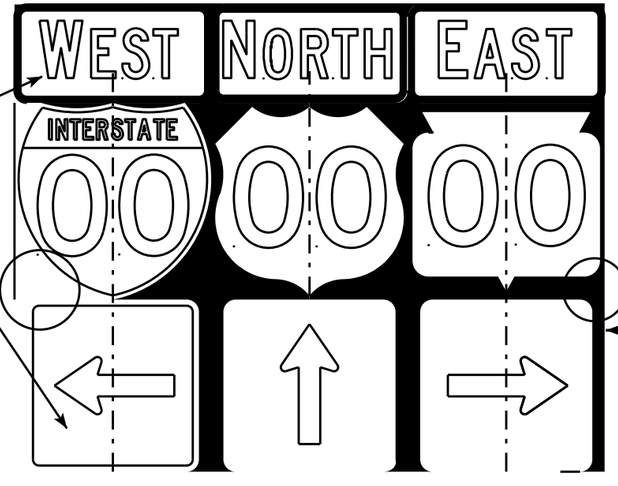
J33-1

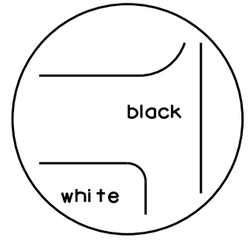
J23-1

J22-1

[blue background with interstate]







[black background]

NOTES

1. Signs are Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Black Non-reflective
   Message - see Note 5
3. Message Series - See Note 5
4. Corners shall be square or rounded if base material is plywood. If base material is metal the corners shall be rounded.
5. The colors and message spacing on each marker shall be according to the applicable route marker panel specifications.
6. Certain marker heads require the component pieces to be the same color. As an example, all the components used with an M1-1 Interstate marker shall be blue.
7. Single panel j-assemblies shall only be used with route marker shields that are same size. If the route marker shields are different size use multiple piece component.
8. Route assemblies that have 24 inch route shields and have dimensions greater than 48 inches (both vertical and horizontal) shall have one horizontal splice between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 inches or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
9. Route assemblies that have 36 inch shields and have dimensions greater than 48 inchs (both vertical and horizontal) shall have two horizontal splices. One horizontal splice shall be between the cardinal direction and route shields and the other horizontal splice shall be between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
10. All Vertical J Assemblies are given a Sign Code of JV
11. For JV Assemblies that have a mixture of Interstate and non Interstate shields, arrows and cardinals shall be white on blue.

ROUTE MARKERS & COMPONENTS
IN TYPICAL ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

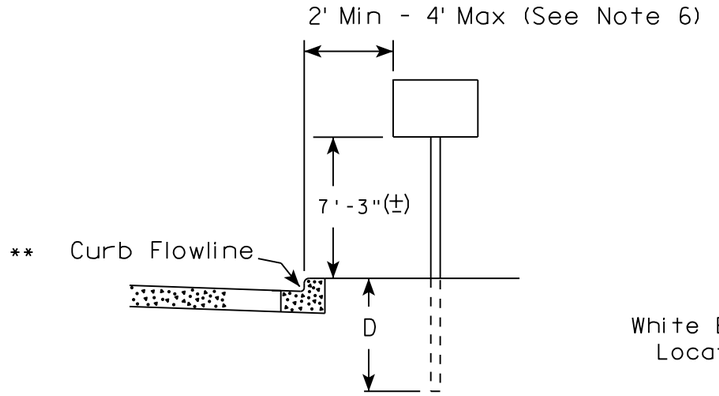
DATE 2/06/14 PL... A2-1S.8

PROJECT NO: | SHEET NO: E

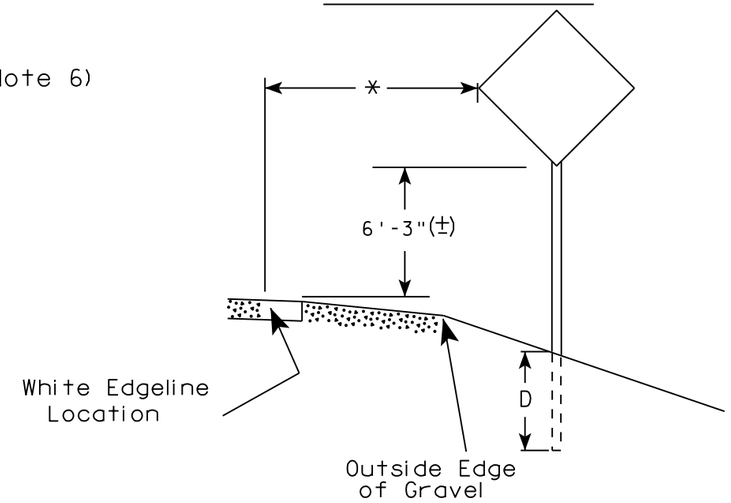
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A21S.DGN PLOT DATE : 06-FEB-2014 14:10 PLOT BY : mscsja PLOT NAME :

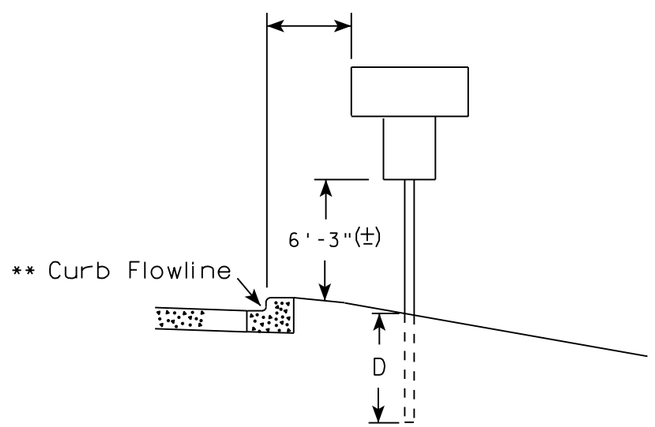
WISDOT/CADDS SHEET 42

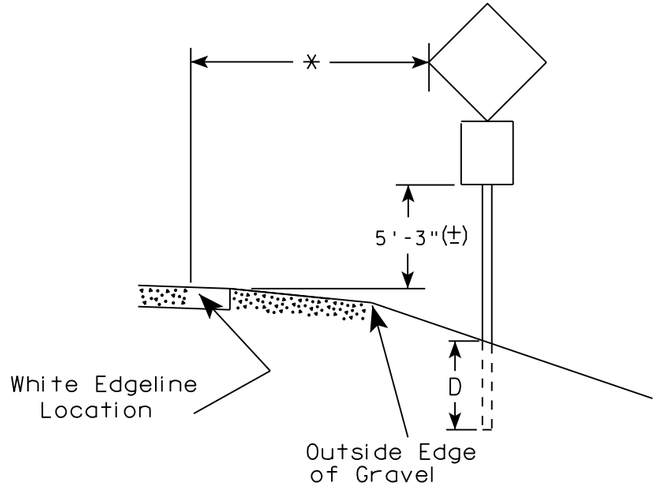
URBAN AREA



RURAL AREA (See Note 2)







** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq.Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on barrier wall, see A4-10 sign plate.
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. J-Assemblies are considered to be one sign for mounting height.
5. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. The (±) tolerance for mounting height is 3 inches.
8. Folding signs shall be mounted at a height of 5'-3" (±) or as directd by the Engineer.
9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).

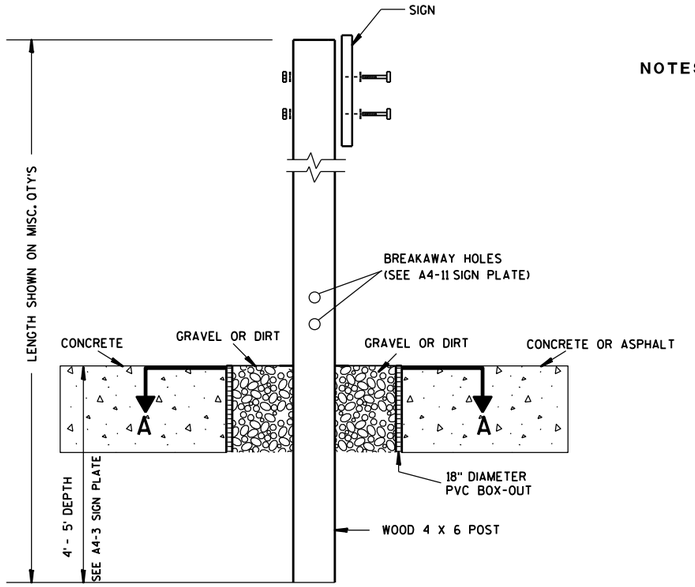
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/21/17 PLATE NO. A4-3.21

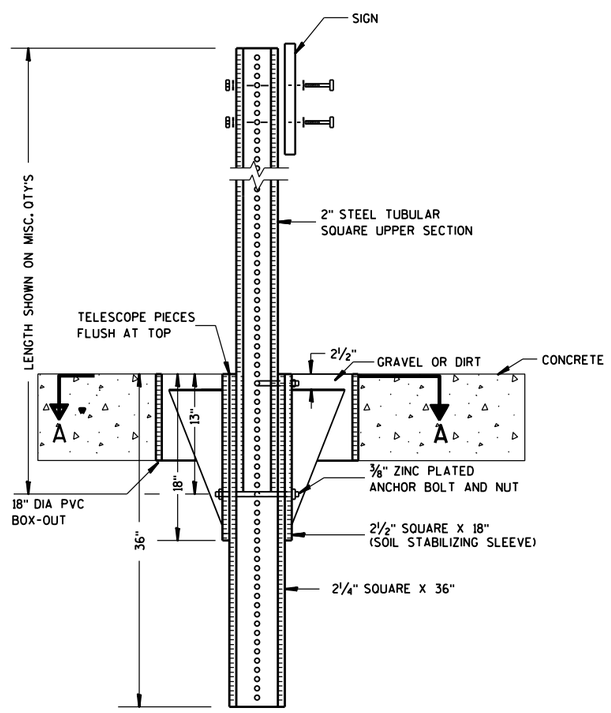
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 185	E



ELEVATION VIEW

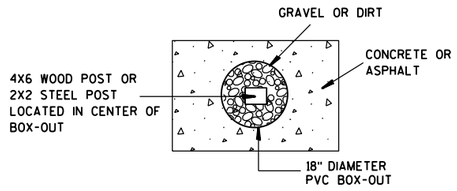
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

NOTES:
1. ALL MATERIAL TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION
2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

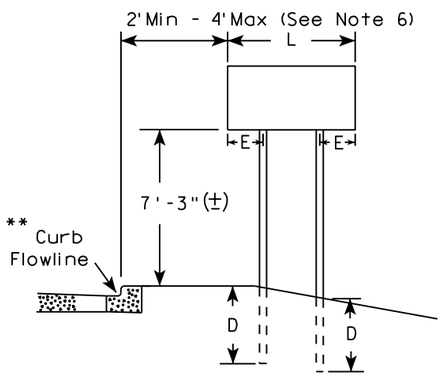
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

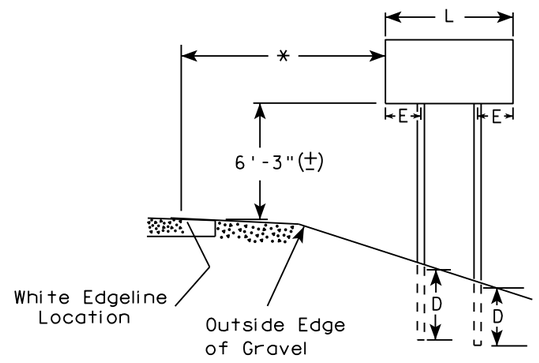
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

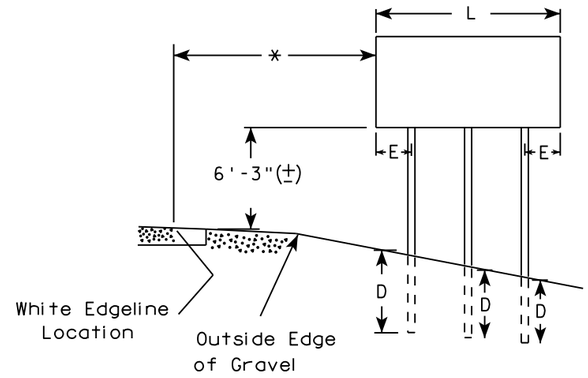
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN PLOT DATE : 27-JAN-2014 09:48 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42

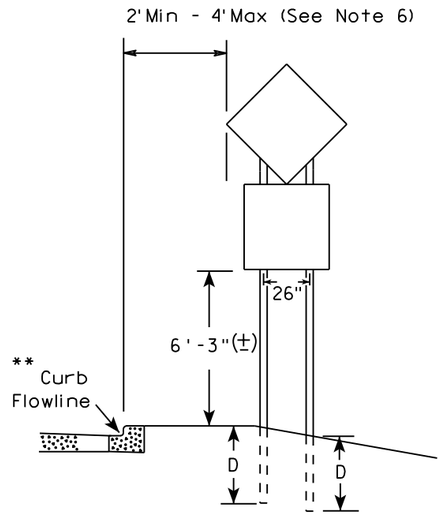
URBAN AREA



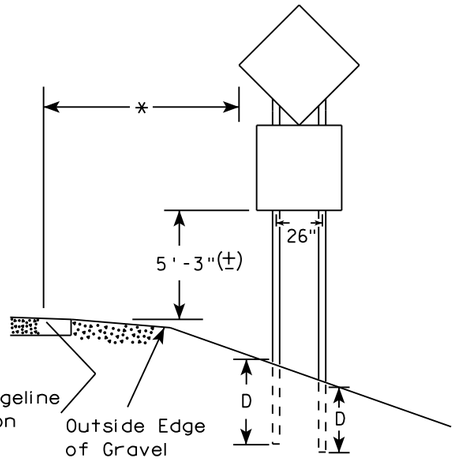
RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

***	SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)	
	L	E
	Greater than 48" Less than 60"	12"
	60" to 108"	L/5

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 108" to 144"	12"

GENERAL NOTES

1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
2. See tables below for required number of posts.
3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
4. The (±) tolerance for mounting height is 3 inches.
5. J-Assemblies are considered to be one sign for mounting height.
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±).

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

*** See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

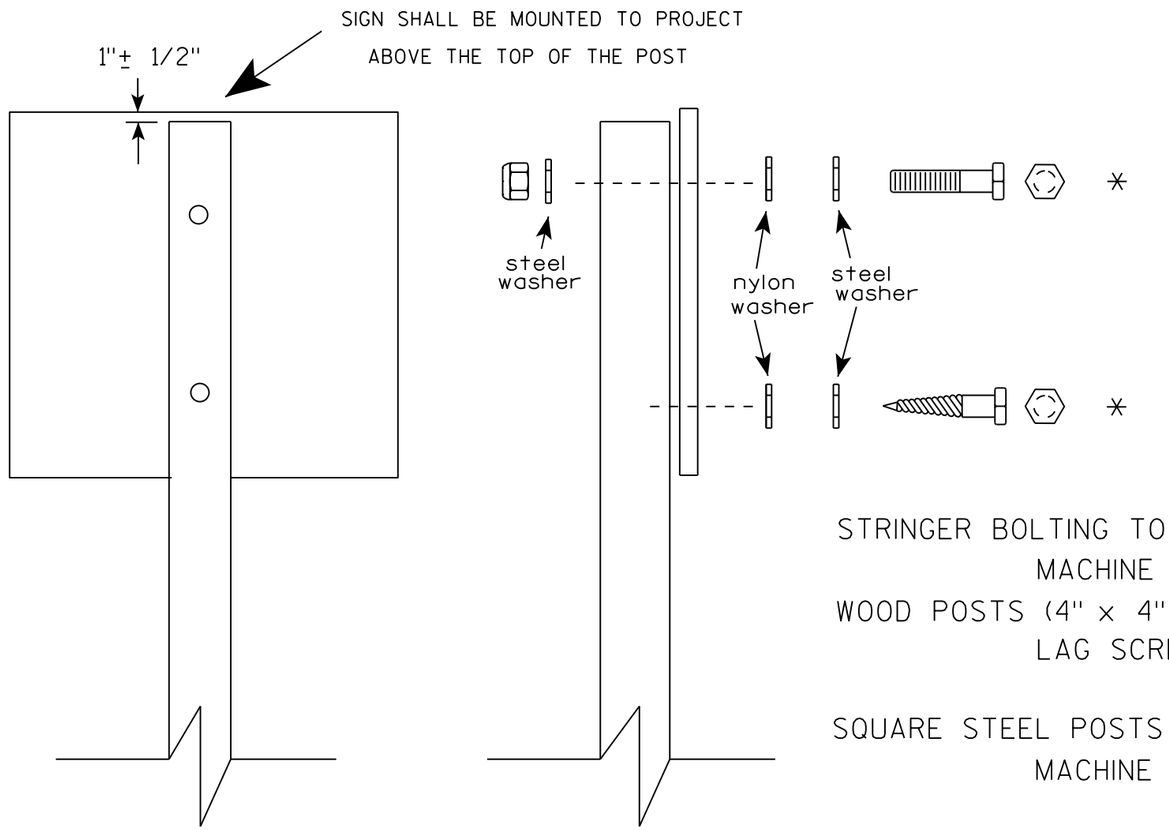
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/21/17 PLATE NO. A4-4.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 187	E



Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3
b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)
MACHINE BOLTS - 5/16" X 1-3/4" Length w/ lock nuts
WOOD POSTS (4" x 4" or 4" x 6")
LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)
3/8" X 4" (STRINGERS ON BACK OF SIGN)
SQUARE STEEL POSTS (2" x 2")
MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)
3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)
RIVETS - 9/32 " (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH
WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON

* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

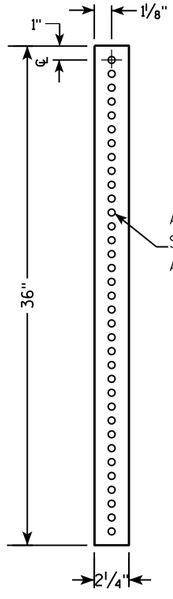
DATE 8/11/16 PLATE NO. A4-8.8

PROJECT NO: SHEET NO: E

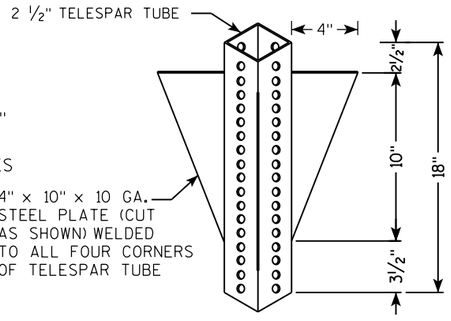
FILE NAME : C:\CADfiles\Projects\tr_stdplate\A48.DGN PLOT DATE : 11-AUG-2016 11:35 PLOT BY : $$ plotuser $$

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

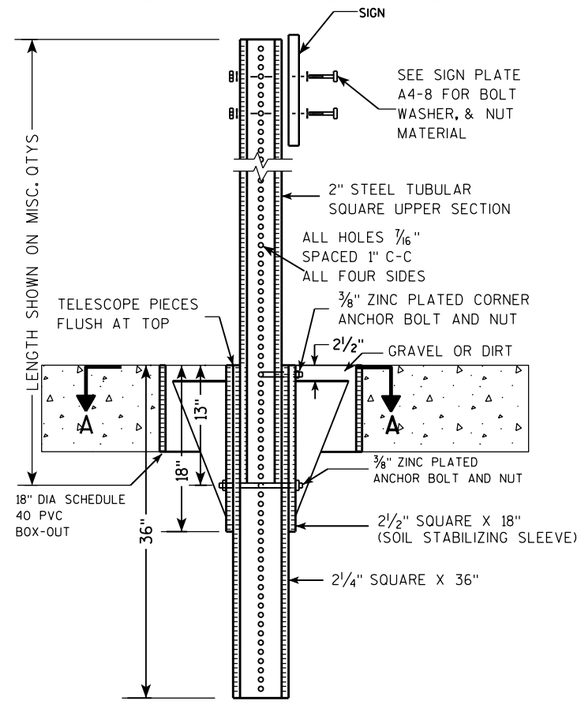
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



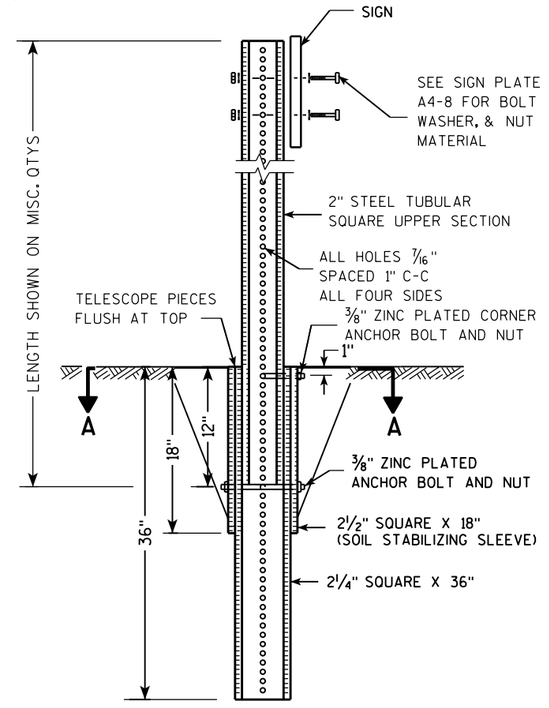
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

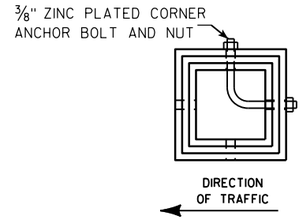


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



DETAIL OF TUBULAR STEEL SIGN POST
(IN LOCATIONS OTHER THAN POURED CONCRETE OR ASPHALT)





SECTION A-A

Area of Sign Installation (Sq. Ft.)	Number of Required Posts
9 or less	1
Greater than 9 less than or equal to 18	2
Greater than 18 less than or equal to 27	3

Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

TUBULAR STEEL
SIGN POST
A4-9

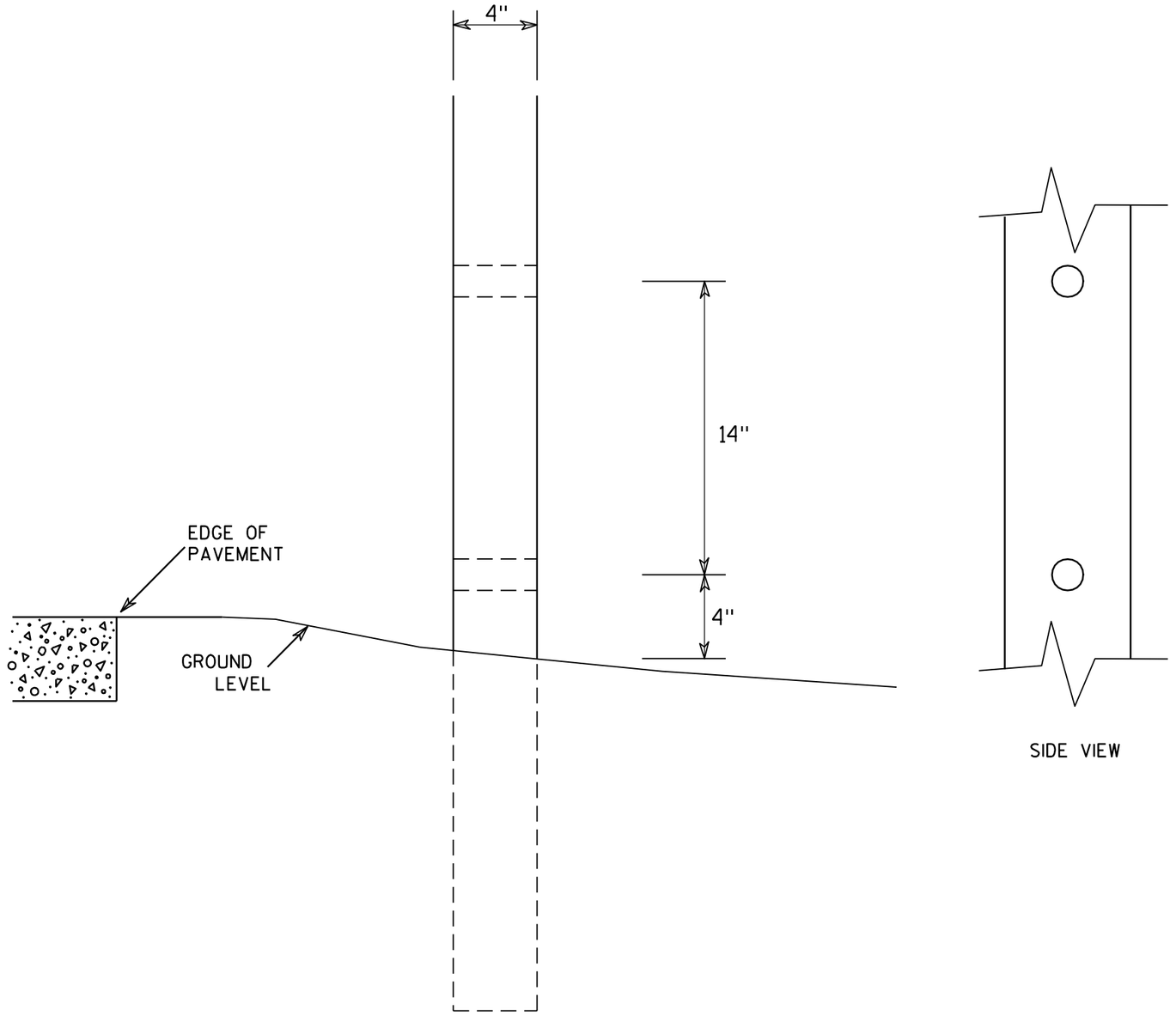
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE A4-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN PLOT DATE : 05-FEB-2015 17:09 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42



SIDE VIEW

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

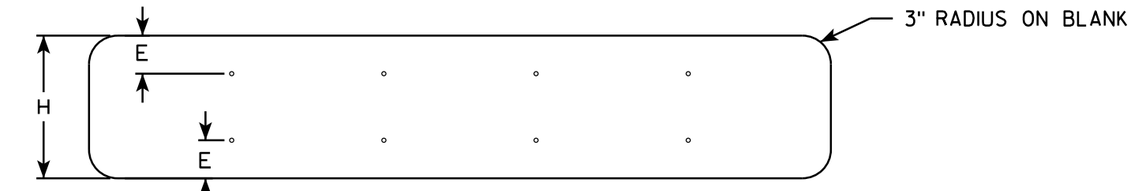
4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

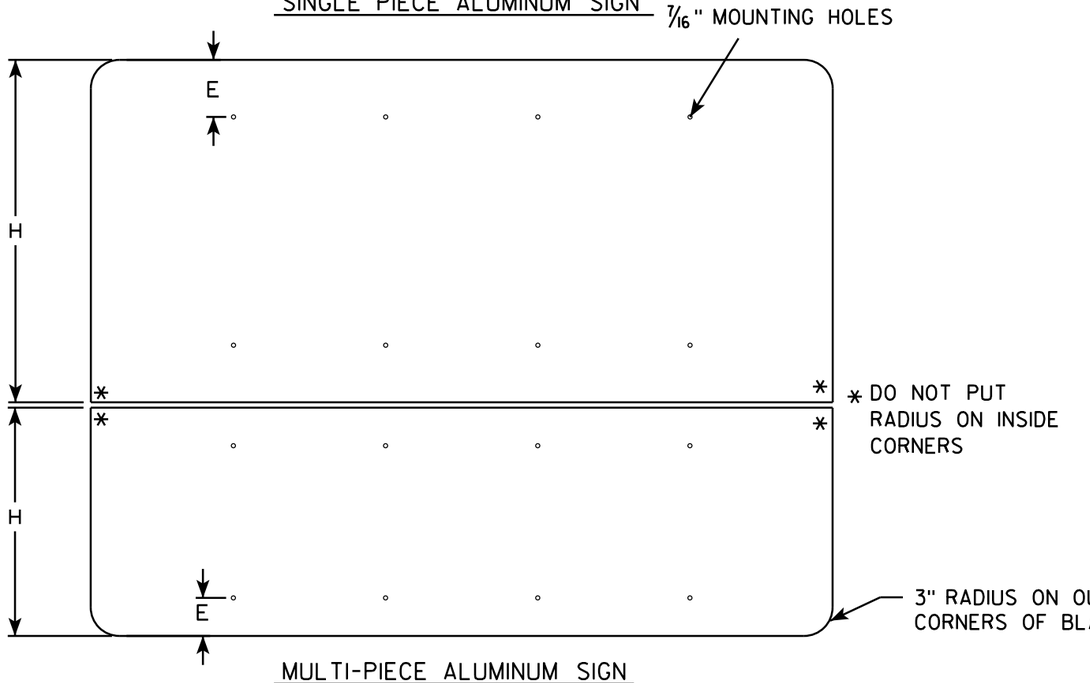
APPROVED Chester J Spang for State Traffic Engineer

DATE 3/27/97 PLATE NO. A4-11.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 190	E



SINGLE PIECE ALUMINUM SIGN

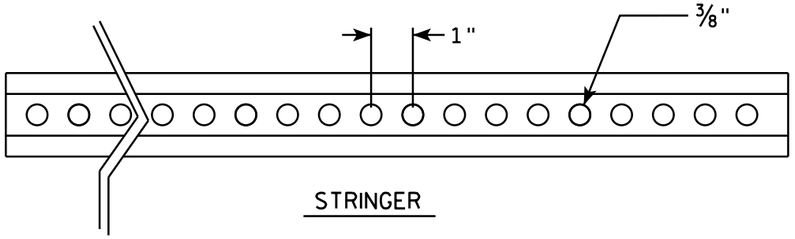


MULTI-PIECE ALUMINUM SIGN

GENERAL NOTES

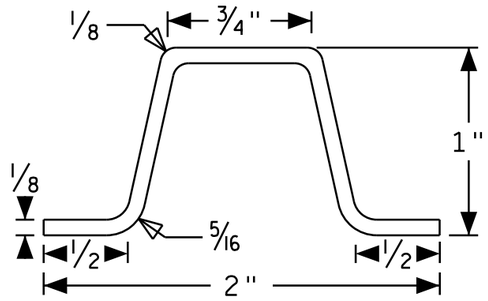
- ALL SIGNS OVER 60" IN WIDTH SHALL HAVE A 3" RADIUS ON THE OUTSIDE CORNERS OF THE ALUMINUM BLANK.
- MOUNTING HOLES SHALL BE 7/16" DIAMETER.
- SEE CHART FOR HOLE SPACING REQUIREMENTS
- FOR SIGN PANELS WITH DIMENSION (H) 36" AND OVER, DIMENSION E SHALL BE 6"
- FOR SIGN PANELS WITH DIMENSION (H) UNDER 36", DIMENSION E SHALL BE 4"
- SIGN STRINGER MATERIAL SHALL CONSIST OF STEEL CHANNEL POST SECTIONS, WEIGHING 1.12 LBS/FT IN ACCORDANCE WITH SECTION 633.2.1 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.
- SEE SIGN PLATE A4-8 FOR SIGN STRINGER BOLTING REQUIREMENTS.

SIGN WIDTH	STRINGER WIDTH	POSTS	HOLE SPACING	MOUNTING HOLES
78"	72"	2	16"	15" 31" 47" 63"
84"	72"	2	17"	16½" 33½" 50½" 67½"
90"	72"	2	18"	18" 36" 54" 72"
96"	90"	2	19"	19½" 38½" 57½" 76½"
102"	90"	2	20"	21" 41" 61" 81"
108"	90"	2	21"	22½" 43½" 64½" 85½"
114"	108"	3	15"	12" 27" 42" 57" 72" 87" 102"
120"	108"	3	16"	12" 28" 44" 60" 76" 92" 108"
126"	108"	3	17"	12" 29" 46" 63" 80" 97" 114"
132"	126"	3	18"	12" 30" 48" 66" 84" 102" 120"
138"	126"	3	19"	12" 31" 50" 69" 88" 107" 126"
144"	126"	3	20"	12" 32" 52" 72" 92" 112" 132"

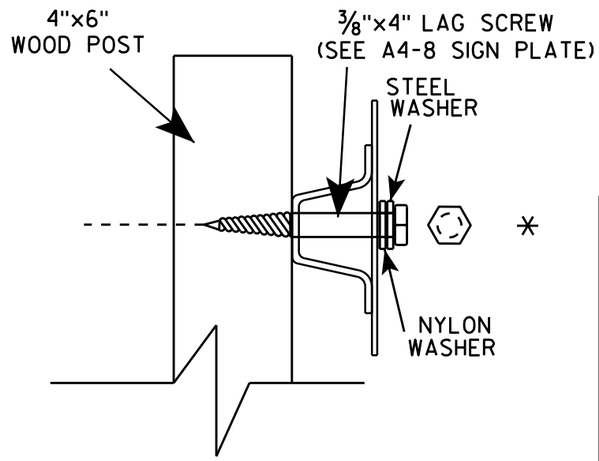


STRINGER

CROSS SECTION VIEW OF CHANNEL



POST MOUNTING



SIGN STRINGER MOUNTING REQUIREMENTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch

for State Traffic Engineer

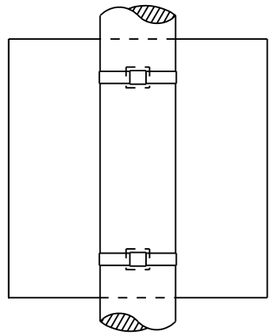
DATE 4/26/16 PLATE NO A4-18.1

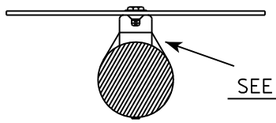
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A418.dgn PLOT DATE : 27-APR-2016 13:56 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 41.805205:1.000000 WISDOT/CADDS SHEET 42

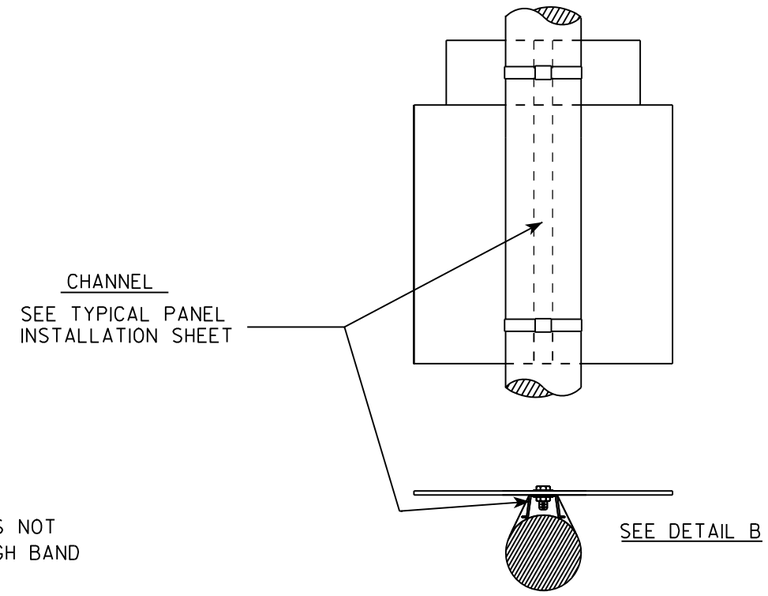
BANDING

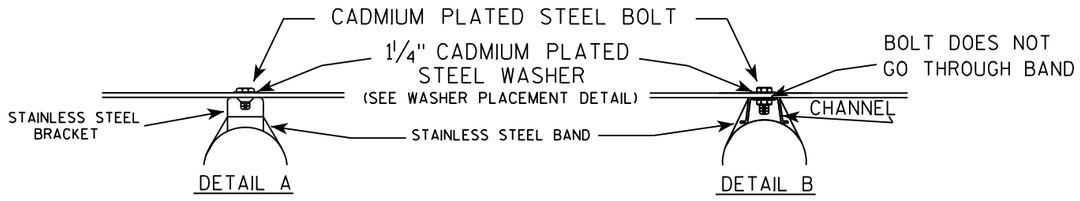
SINGLE SIGN



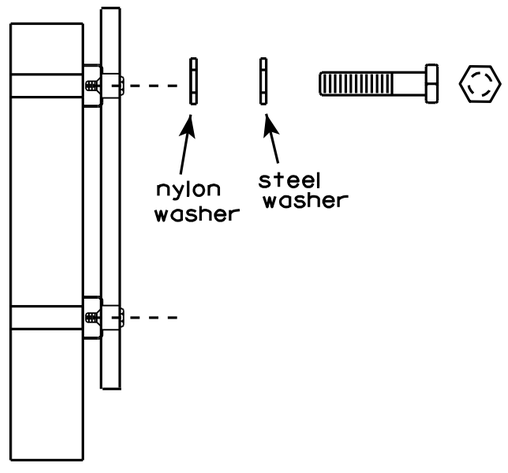


"J" ASSEMBLY





WASHER PLACEMENT



WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be 3/4" in width and 0.025" thickness.

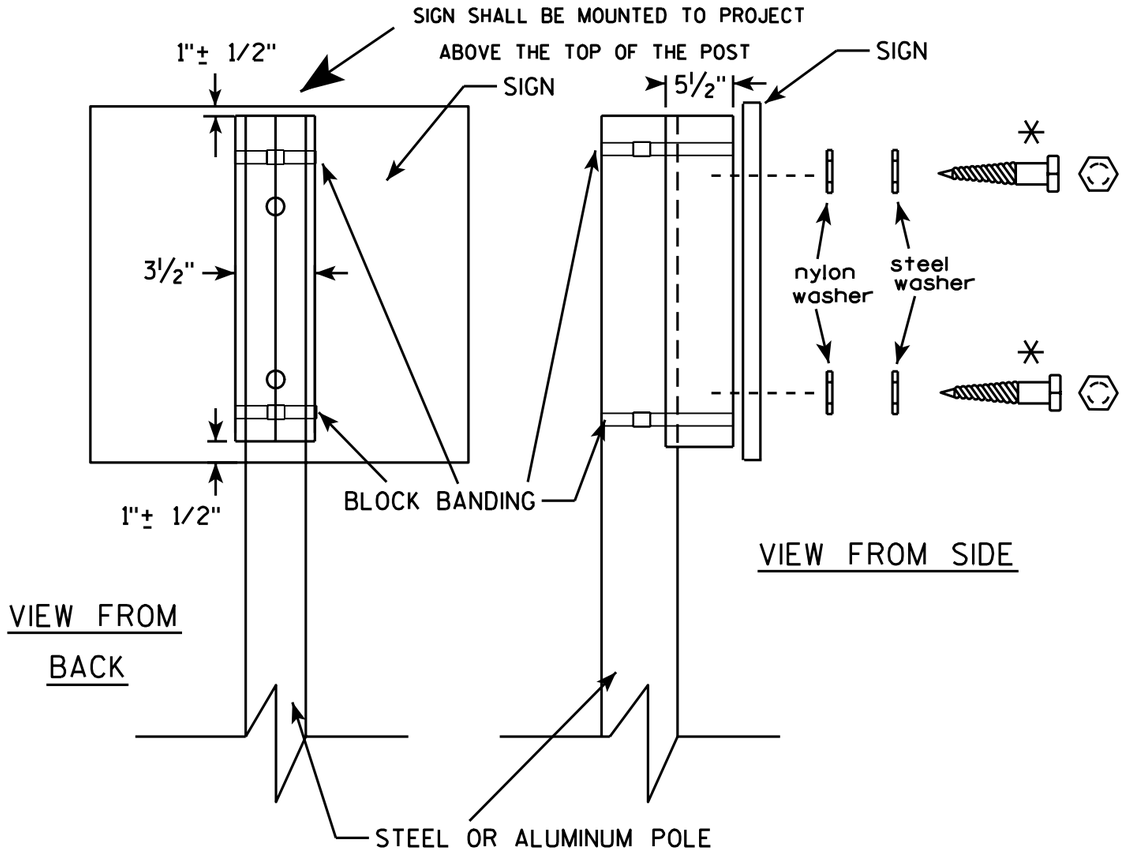
STANDARD SIGN
SIGN BANDING DETAILS

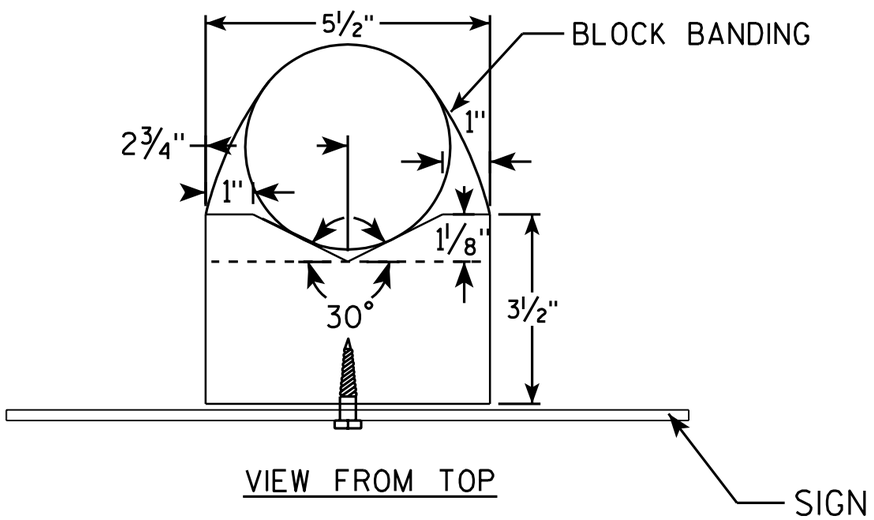
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/16/13 PLATE NO. A5-9.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 192	E





GENERAL NOTES

1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WisDOT STANDARD SPECIFICATIONS
2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, ¾" WIDTH AND 0.025" THICKNESS
3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D, or
   b. Cadmium plated in accordance with ASTM Designation : B 766 TYPE 3, Class 12, or
   c. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.
6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
7. STEEL WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X 1/16"
8. NYLON WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

✳ LAG BOLTS SHALL BE ⅜" X 2½"

BLOCK BANDING DETAIL (V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

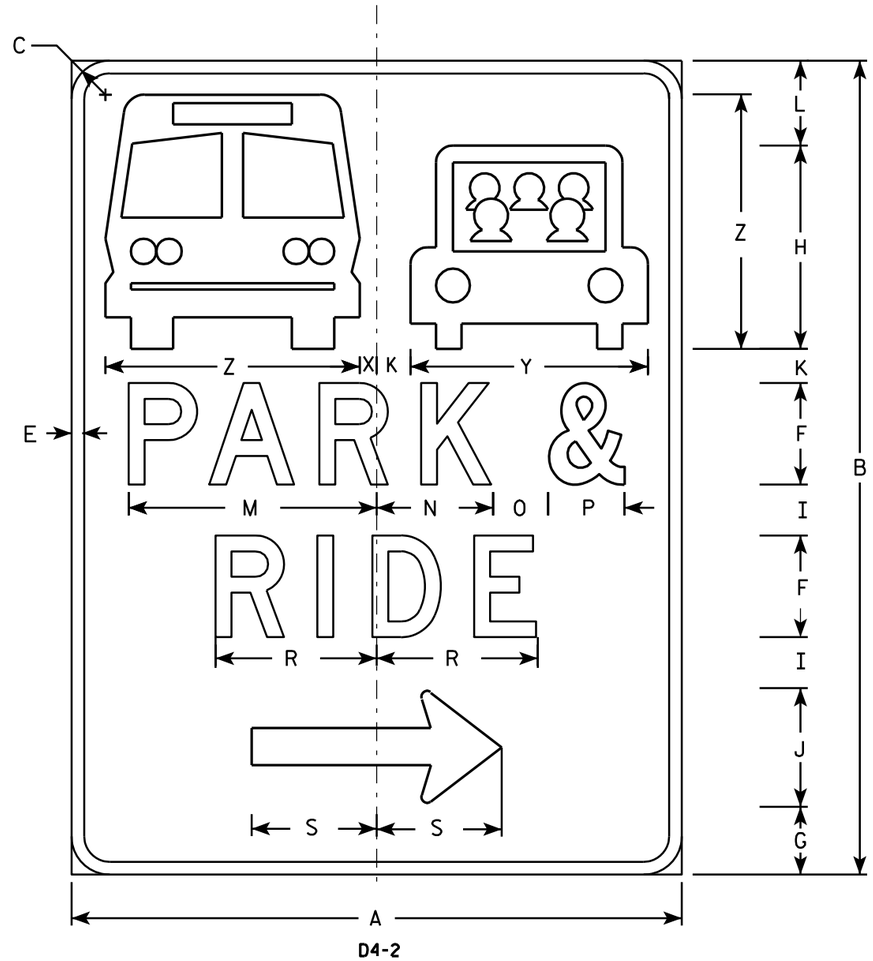
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/12/07 PLATE NO. A5-10.1

PROJECT NO:

SHEET NO: 193 E

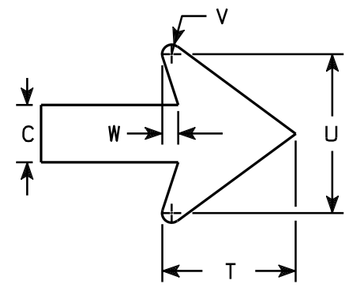
FILE NAME : C:\Users\Projects\tr_stdplate\A510.dgn PLOT DATE : 06-AUG-2007 13:37 PLOT BY : ditjph
WISDOT/CADDS SHEET 42



D4-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Green
   Message - White - Type H Reflective
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. The D4-2L is the same as a D4-2R except the arrow is reversed.
6. The D4-2 sign may have either symbol or both symbols at the same time.



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24	30	1 1/8		1/2	4	1 5/8	7 1/2	1 1/2	4 5/8	1 3/8	3 7/8	9 3/4	4	2 3/4	3		6 3/8	4 7/8	3 1/2	4 1/8	1/4	3/8	5/8	9 3/8	10	5.0
2	30	36	1 3/8		5/8	5	2	9	1 5/8	5 1/2	1 5/8	4 5/8	12 1/4	5 1/8	3 3/8	3 3/4		8	6 1/8	4 3/8	5 1/4	3/8	1/2	7/8	11 3/4	12 1/2	7.50
3	36	48	2 1/4		3/4	6	4	12	3	7	2	5	14 5/8	6 7/8	3 1/4	4 1/2		9 1/2	7 1/2	5 1/4	6 1/4	3/8	5/8	1	14	15	12.0
4																											
5																											

STANDARD SIGN
D4-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/20/10 PLATE NO. D4-2.5

PROJECT NO:

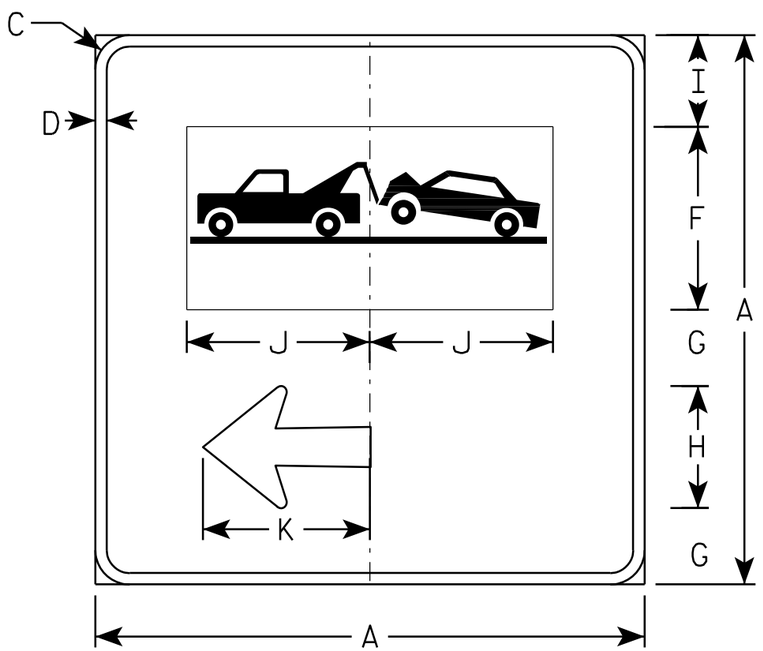
SHEET NO: 194 E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\D42.dgn PLOT DATE : 10-FEB-2011 14:21 PLOT BY : mscsja

WISDOT/CADDS SHEET 42

7

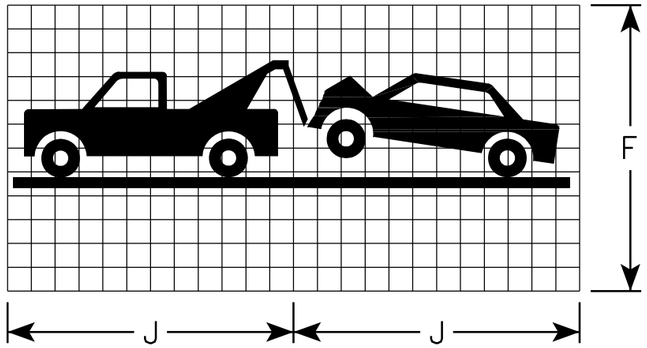
7



D4-55L

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - BLUE
   Message - WHITE
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. D4-55R is same as D4-55L except arrow is reversed.
6. Arrow is from A1-2 Lower Case 4½ Series D & E



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	36		2 ¼	¾		12	5	8	6	12	11																9.0
3																											
4																											
5																											

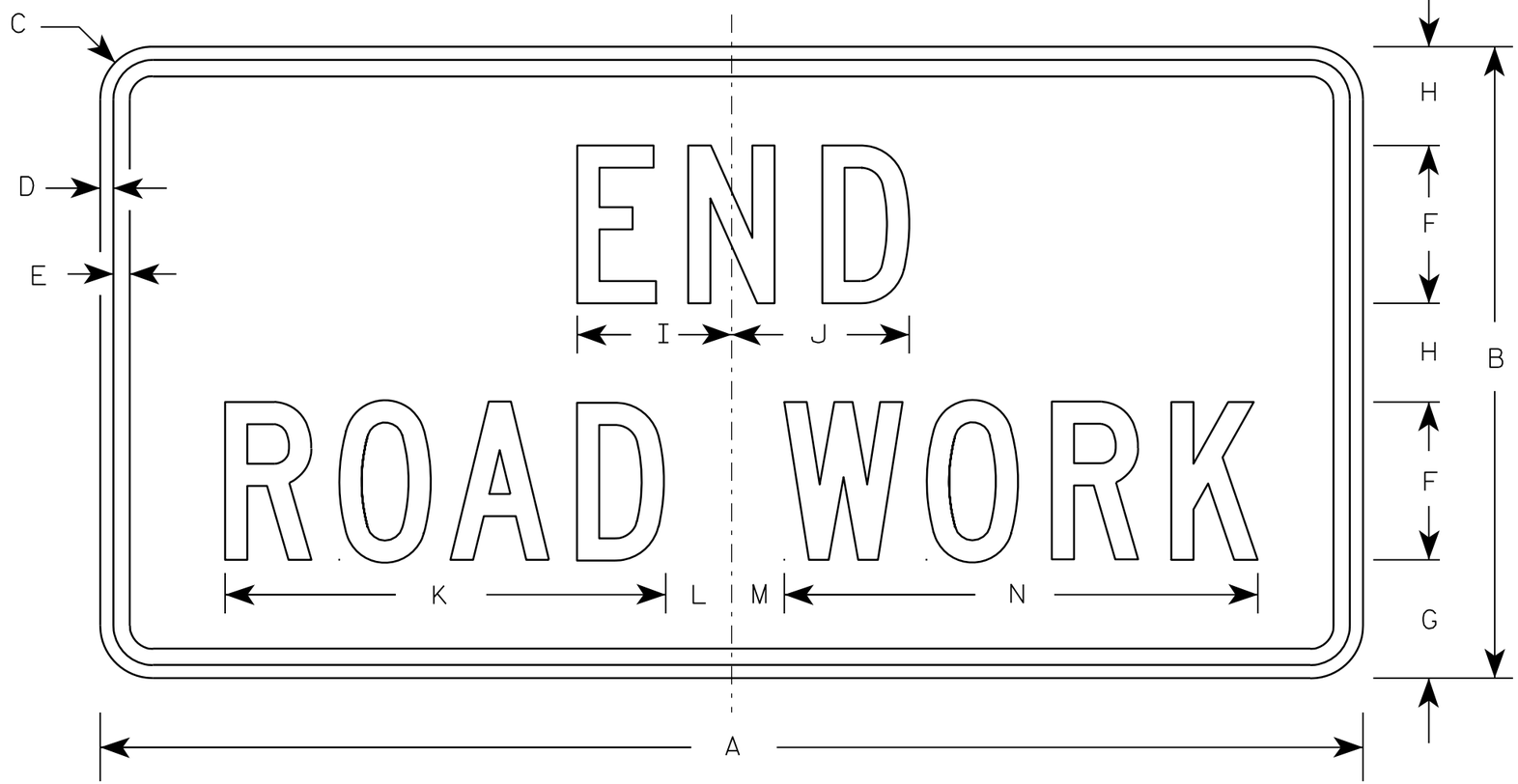
STANDARD SIGN
D4-55 L & R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/14/2011 PLATE NO. D4-55.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 195	E



G20-2A

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

Metric equivalent for this sign is:

SIZE	
1	900 mm X 450 mm
2	1200 mm X 600 mm
3	1200 mm X 600 mm
4	1200 mm X 600 mm
5	1200 mm X 600 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1	36	18	1 1/8	3/8	1/2	4	3 3/4	2 1/2	4 1/8	4 1/8	11 1/8	2	1	12 1/8													4.5	0.41
2	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
3	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
4	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
5	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72

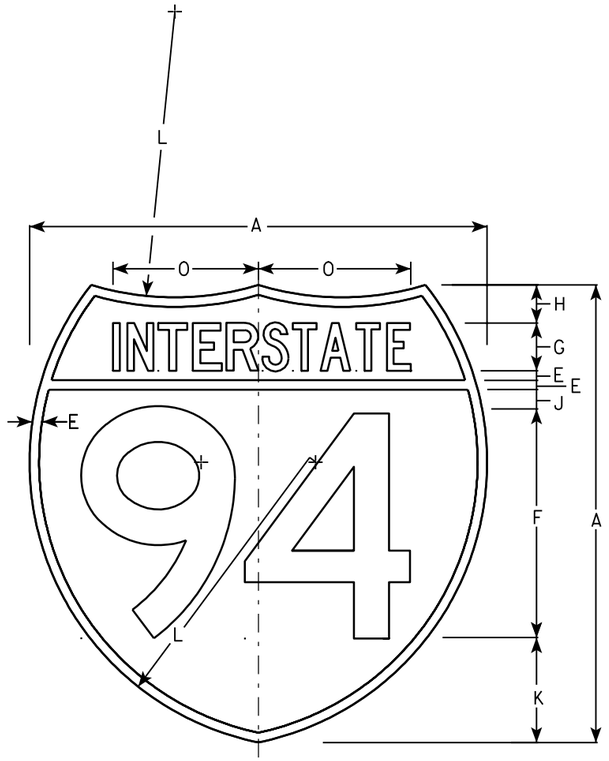
STANDARD SIGN
G20-2A

WISCONSIN DEPT OF TRANSPORTATION

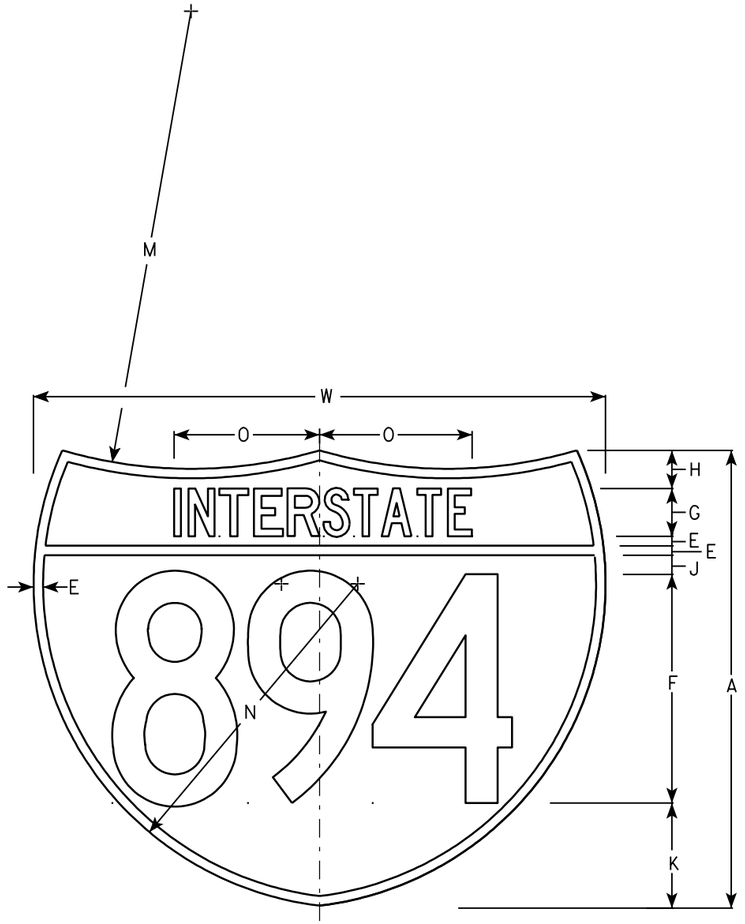
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/30/09 PLATE NO. G20-2A.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 196	E



M1-1



M1-1A

NOTES

1. Sign is Type II - See Note 6 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Top Red - Bottom Blue (See Note 6)
   Message - White - See Note 6
3. Message Series - See note 5
4. Substitute appropriate numerals & ajust spacing as per plate A10-1.
5. M1-1 - Numerals - D
   Interstate - C
   M1-1A - All copy - C
6. Permanent Signs
   Message - Type H Reflective
   Detour or other temporary signs
   Background - Reflective
   Message - Reflective

Metric equivalent for these signs are:

SIZE	M1-1	SIZE	M1-1A
1			
2	600 mm X 600 mm	2	600 mm X 750 mm
3	900 mm X 900 mm	3	900 mm X 1125 mm
4	900 mm X 900 mm	4	900 mm X 1125 mm
5	900 mm X 900 mm	5	900 mm X 1125 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	M1-1 Area sq. ft.	M1-1A Area sq. ft.	M1-1 Area m2	M1-1A Area m2
1																													
2	24				1/2	12	2 1/2	2		1	5 1/2	15	24	17	7 7/8								30			3.13	3.91	.36	.46
3	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79	.81	1.05
4	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79	.81	1.05
5	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79	.81	1.05

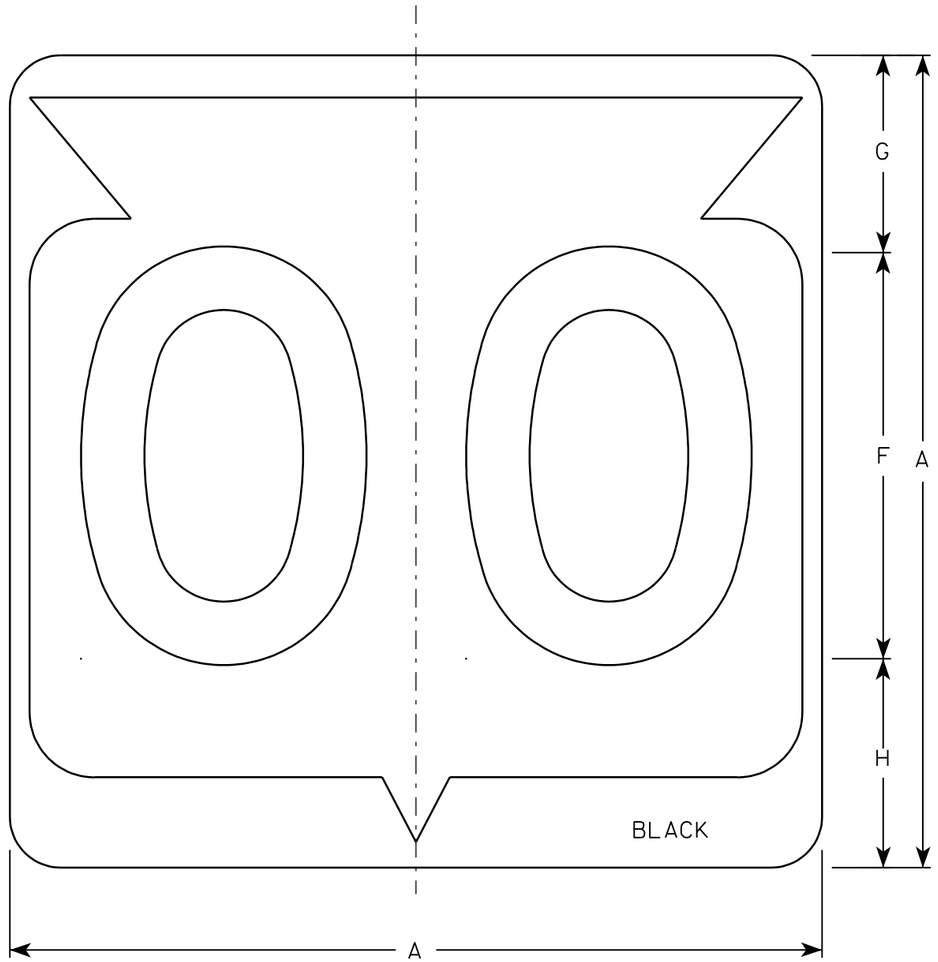
INTERSTATE ROUTE MARKER
M1-1 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 08/23/05 PLATE NO. M1-1.8

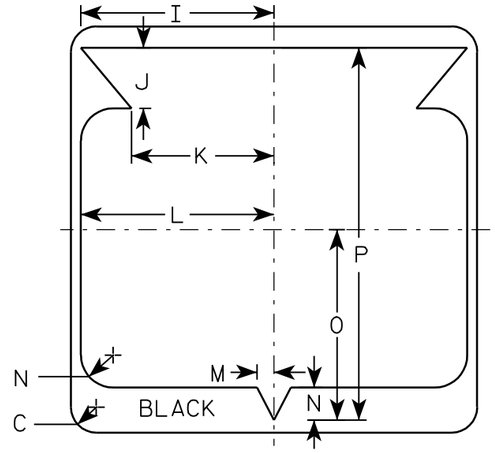
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 197	E



M1-6

NOTES

1. Sign is Type II - See Note 6 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White & Black - See Note 6
   Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate Series numerals and adjust spacing as per plate A10-1.
6. Permanent Signs
   Background - Type H Reflective
   Detour or temporary Signs
   Background - Reflective



Metric equivalent for this sign is:

SIZE	
1	
2	600 mm X 600 mm
3	900 mm X 900 mm
4	900 mm X 900 mm
5	900 mm X 900 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 7/8	11 1/2	1	1 7/8	11 1/4	21 7/8											4.0	.36
3	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81
4	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81
5	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81

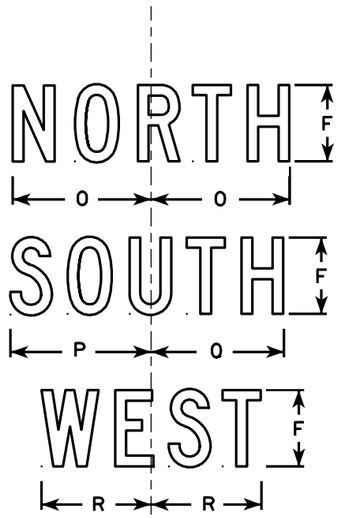
STATE ROUTE MARKER
M1-6 FOR ASSEMBLIES

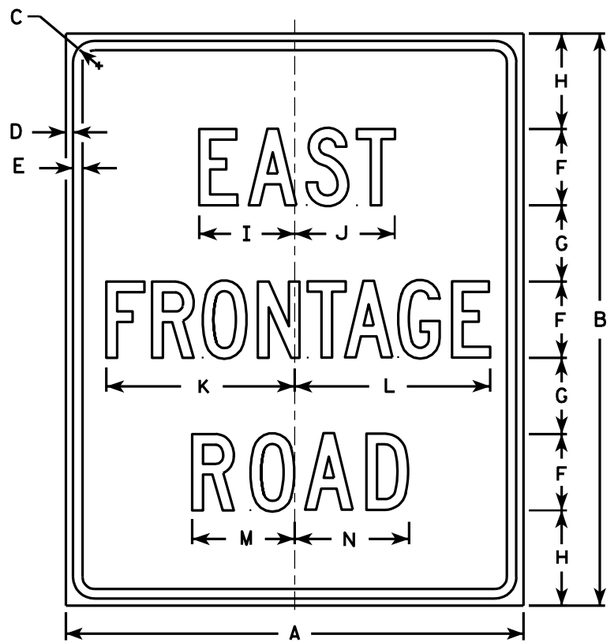
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang for State Traffic Engineer

DATE 3/20/02 PLATE NO. M1-6.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 198	E





NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate message as required.

Metric equivalent for this sign is:

SIZE	
1	
2	600 mm X 750 mm
3	
4	900 mm X 1050 mm
5	

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	24	30	1 1/8	3/8	1/2	4	4	5	5	5 1/4	9 7/8	10 1/4	5 3/8	6	7 1/4	7 3/8	7	5 3/4									5.0	.45
3																												
4	36	42	1 3/8	5/8	5/8	6	5	7	7 1/2	7 7/8	14 3/4	15 3/8	8	9	10 7/8	11	10 1/2	8 5/8									10.5	.95
5																												

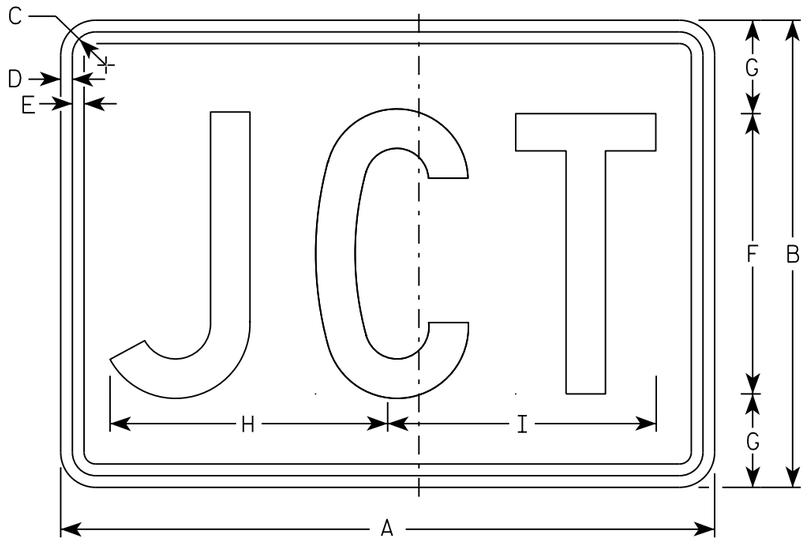
STANDARD SIGN
M1-95A

WISCONSIN DEPT OF TRANSPORTATION

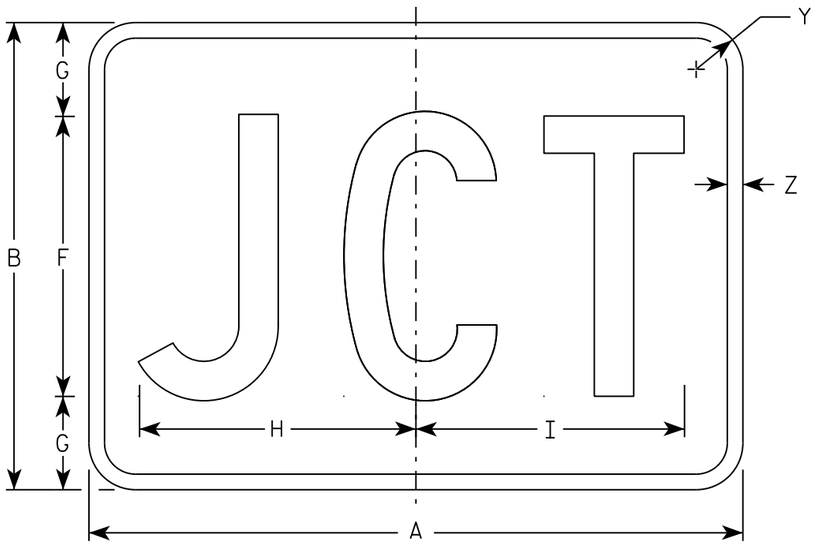
APPROVED Chester J Spang for State Traffic Engineer

DATE 1/30/02 PLATE NO. M1-95A.3

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 199 | E



M2-1
MM2-1
MP2-1



MB2-1
MK2-1
MN2-1
MR2-1

NOTES

1. Sign is Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M2-1 Background - White
   Message - Black
   MB2-1 Background - Blue
   Message - White
   MK2-1 Background - Green
   Message - White
   MM2-1 Background - White
   Message - Green
   MN2-1 Background - Brown
   Message - White
   MP2-1 Background - White
   Message - Blue
   MR2-1 Background - Brown
   Message - Yellow

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21	15	1 1/8	3/8	3/8	9	3	8 7/8	8 5/8																1 1/2	1/2	2.20
3	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40
4	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40
5	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40

STANDARD SIGN
M2-1

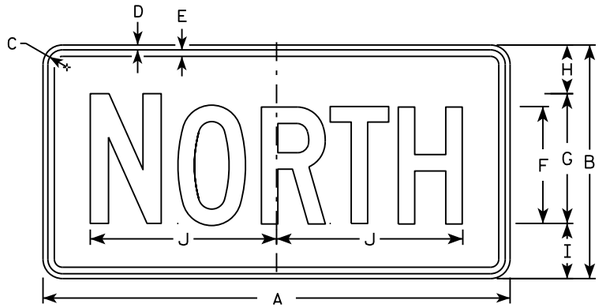
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

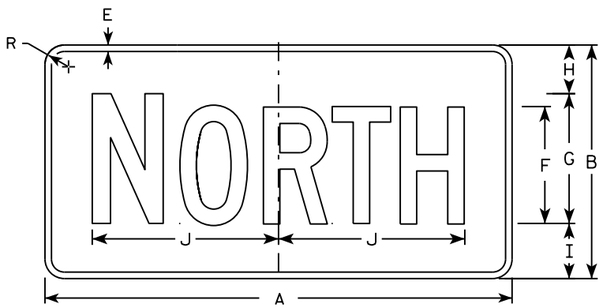
DATE 10/15/15 PLATE 200 12-1.12

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M21.DGN PLOT DATE : 01-DEC-2015 17:54 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 4.864603:1.000000



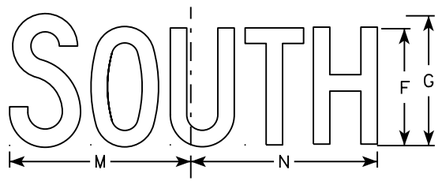
M3-1
MM3-1
MP3-1



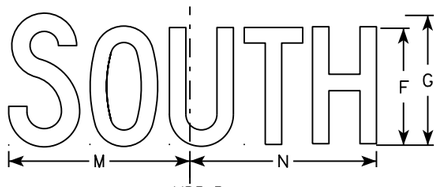
MB3-1
MK3-1
MN3-1

M3-2
MM3-2
MP3-2

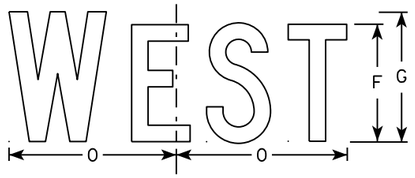
MB3-2
MK3-2
MN3-2



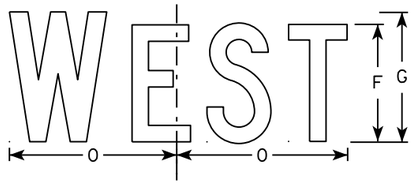
M3-3
MM3-3
MP3-3



MB3-3
MK3-3
MN3-3



M3-4
MM3-4
MP3-4



MB3-4
MK3-4
MN3-4

NOTES

1. All Signs Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M3-1 thru M3-4 Background - White
   Message - Black
   MB3-1 thru MB3-4 Background - Blue
   Message - White
   MK3-1 thru MK3-4 Background - Green
   Message - White
   MM3-1 thru MM3-4 Background - White
   Message - Green
   MN3-1 thru MN3-4 Background - Brown
   Message - White
   MP3-1 thru MP3-4 Background - White
   Message - Blue
6. Note the first letter of each direction is larger than the remainder of the message.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 7/8	8 3/8	10 1/4	9 3/4	8 3/4			1 1/2									2.00
3	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
4	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
5	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5

STANDARD SIGNS
M3-1 thur M3-4
SERIES

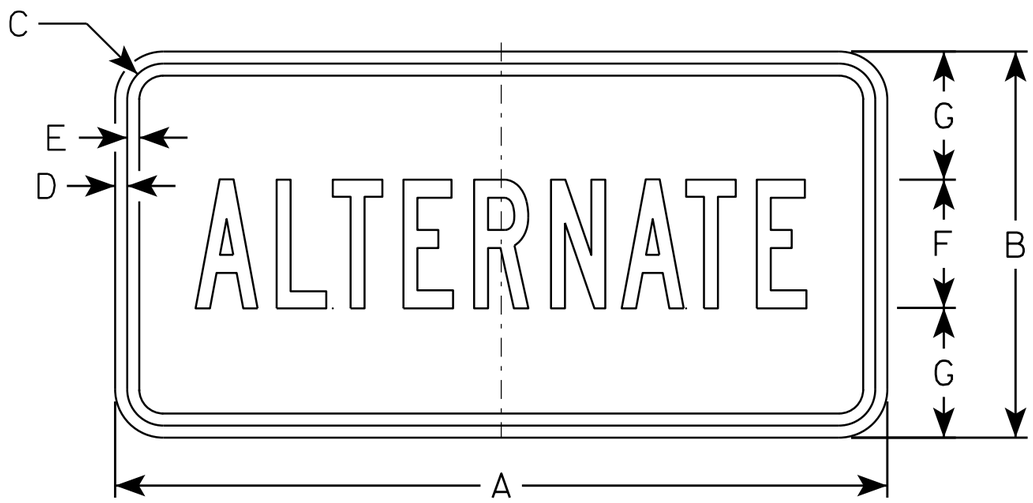
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew P Rauch for State Traffic Engineer

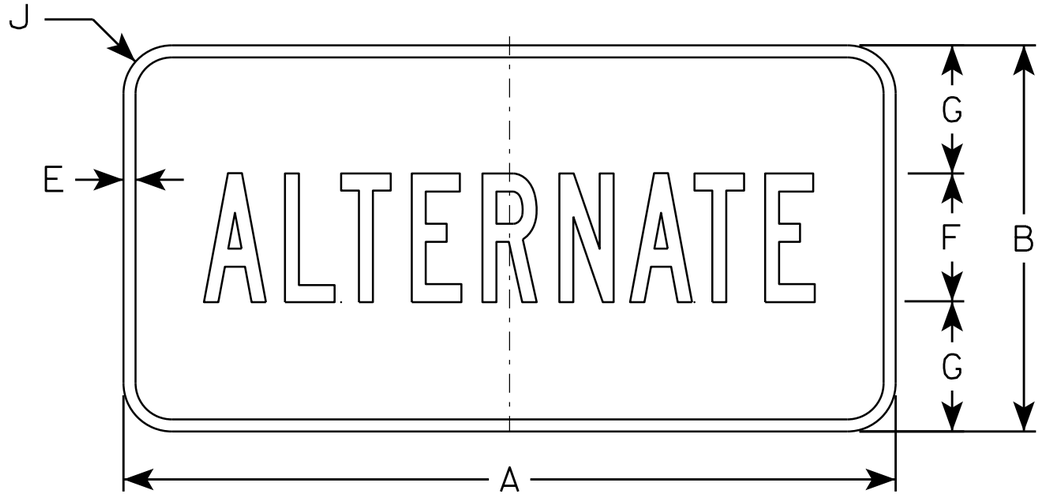
DATE 10/15/15 PLATE NO M3-1.14

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M31.DGN PLOT DATE : 01-DEC-2015 17:54 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



M4-1
M04-1



MB4-1

NOTES

1. Sign is Type II - Type H except as Shown
2. Color:
   Background - See Note 5
   Message - See note 5
3. Message Series - B
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M4-1 Background - White
   Message - Black

   MB4-1 Background - Blue
   Message - White

   M04-1 Background - Orange - Type F
   Message - Black

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	4	4	9 3/4	9 1/2	1 1/2																	2.00
3	36	18	1 1/8	3/8	1/2	7	5 1/2	16 3/8	16 1/2	1 1/2																	4.5
4	36	18	1 1/8	3/8	1/2	7	5 1/2	16 3/8	16 1/2	1 1/2																	4.5
5	36	18	1 1/8	3/8	1/2	7	5 1/2	16 3/8	16 1/2	1 1/2																	4.5

STANDARD SIGN
M4-1

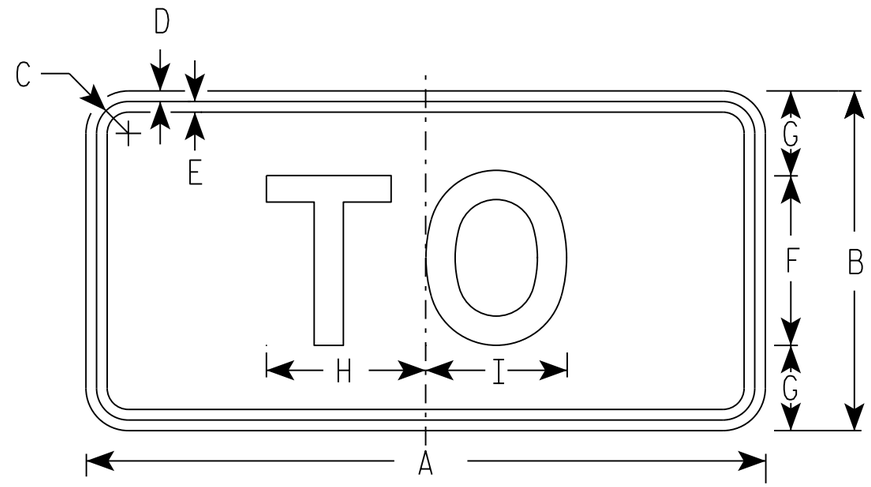
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

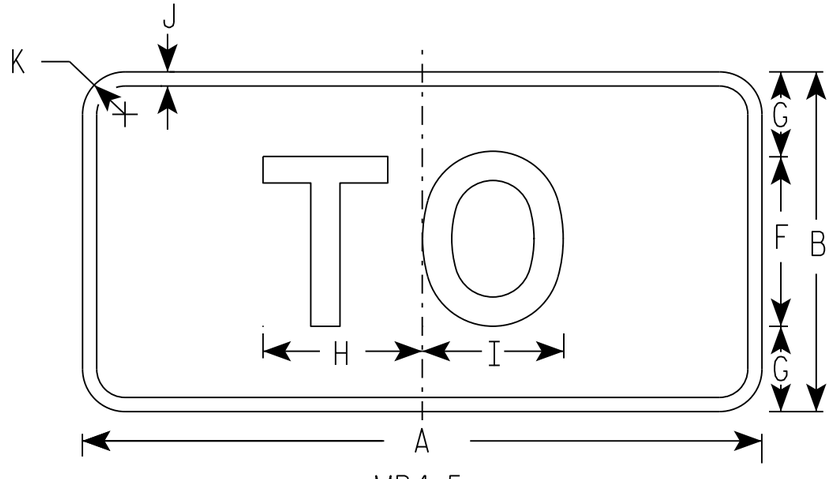
DATE 6/30/14 PLATE 14-1.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\M41.DGN PLOT DATE : 30-JUN-2014 15:38 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 4.708937:1.000000
WISDOT/CADDS SHEET 42



M4-5
MM4-5
MP4-5



MB4-5
MK4-5
MN4-5

NOTES

1. Sign is Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M4-5 Background - White
   Message - Black

   MB4-5 Background - Blue
   Message - White

   MK4-5 Background - Green
   Message - White

   MM4-5 Background - White
   Message - Green

   MN4-5 Background - Brown
   Message - White

   MP4-5 Background - White
   Message - Blue

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	3	5 3/8	5 1/4	1/2	1 1/2																2.00
3	36	18	1 3/8	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2	1 1/2																4.5
4	36	18	1 3/8	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2	1 1/2																4.5
5	36	18	1 3/8	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2	1 1/2																4.5

STANDARD SIGN
M4-5

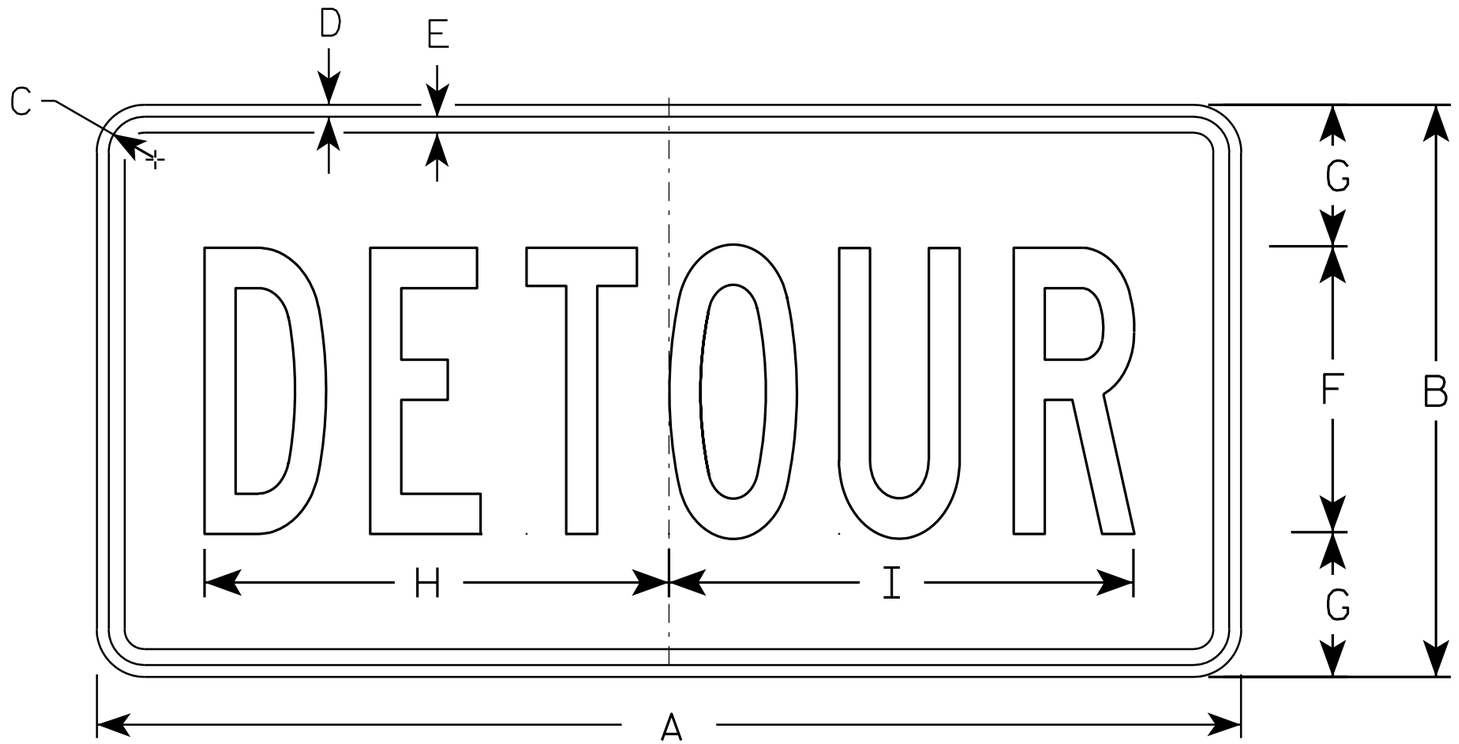
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE 203 M4-5.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M45.DGN PLOT DATE : 01-DEC-2015 17:55 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 5.351066:1.000000



M4-8

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - B
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	3	10	10 1/4																		2.0
3	36	18	1 1/8	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
4																											
5																											

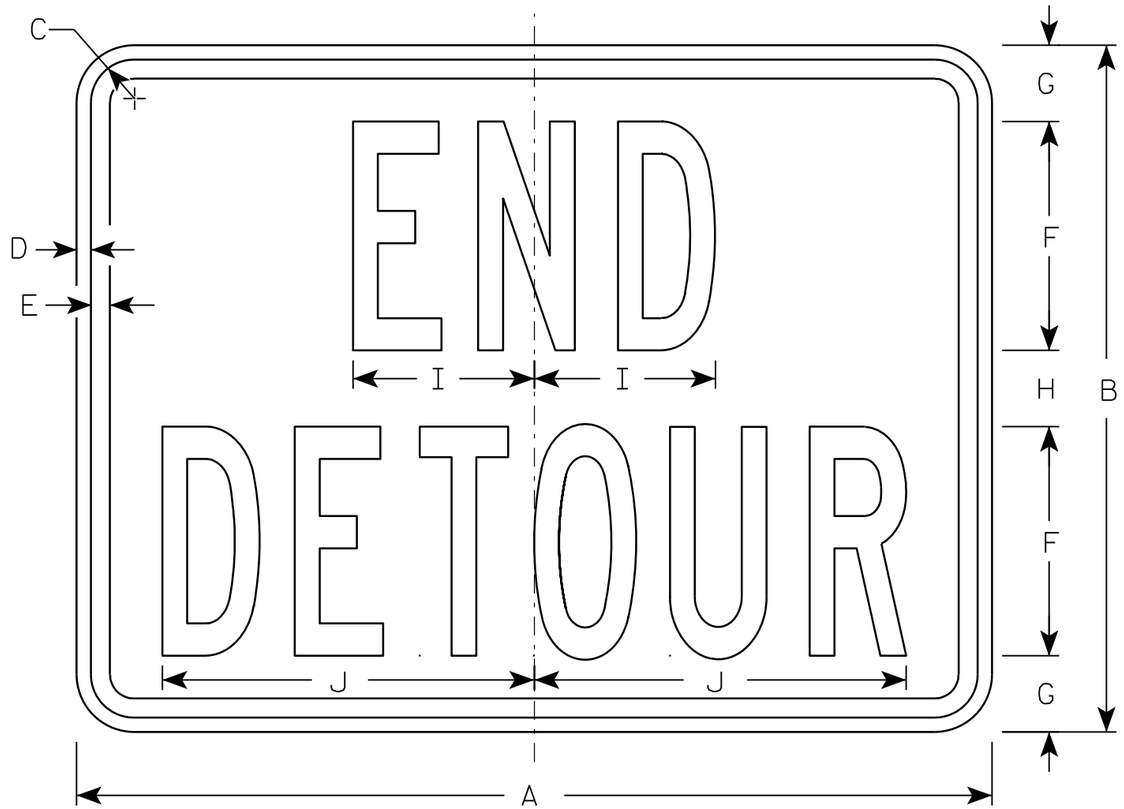
STANDARD SIGN
M4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/10/10 PLATE NO. M4-8.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 204	E



M4-8A

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - B
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	18	1 1/8	3/8	1/2	6	2	2	4 3/4	9 3/4																	3.0
3	30	24	1 1/8	3/8	1/2	8	2 1/2	3	6 3/4	13																	5.0
4																											
5																											

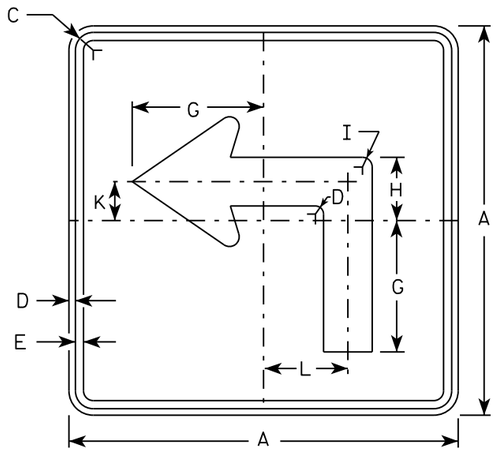
STANDARD SIGN
M4-8A

WISCONSIN DEPT OF TRANSPORTATION

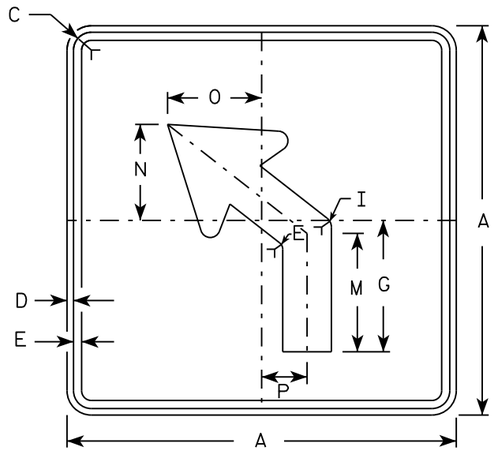
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/9/11 PLATE NO. M4-8A.2

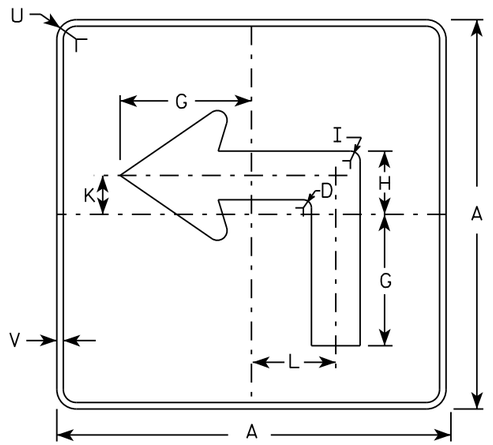
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 205	E



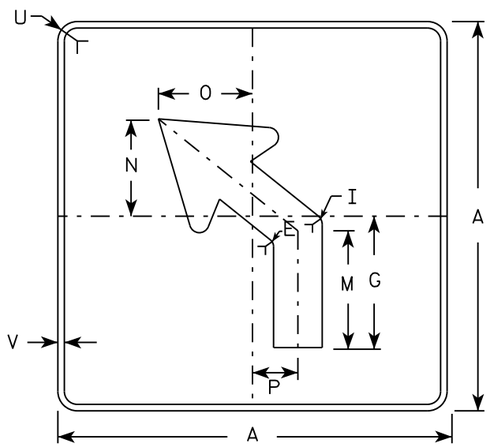
M5-1L
MM5-1L
MO5-1L
MP5-1L



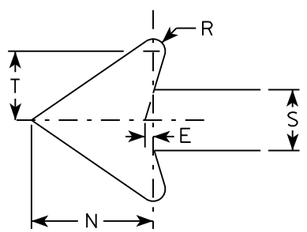
M5-2L
MM5-2L
MO5-2L
MP5-2L



MB5-1L
MK5-1L
MN5-1L
MR5-1L



MB5-2L
MK5-2L
MN5-2L
MR5-2L



NOTES

1. Signs are Type II - Type H reflective except as shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M5-1 and M5-2 Background - White
   Message - Black
   MB5-1 and MB5-2 Background - Blue
   Message - White
   MK5-1 and MK5-2 Background - Green
   Message - White
   MM5-1 and MM5-2 Background - White
   Message - Green
   MN5-1 and MN5-2 Background - Brown
   Message - White
   MO5-1 and MO5-2 Background - Orange - Type F Reflective
   Message - Black
   MP5-1 and MP5-2 Background - White - Type H Reflective
   Message - Blue
   MR5-1 and MR5-2 Background - Brown
   Message - Yellow
5. M5-1R same as M5-1L except arrow points right.
6. M5-2R same as M5-2L except arrow tilts right.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3	1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25

STANDARD SIGN
M5-1 & M5-2

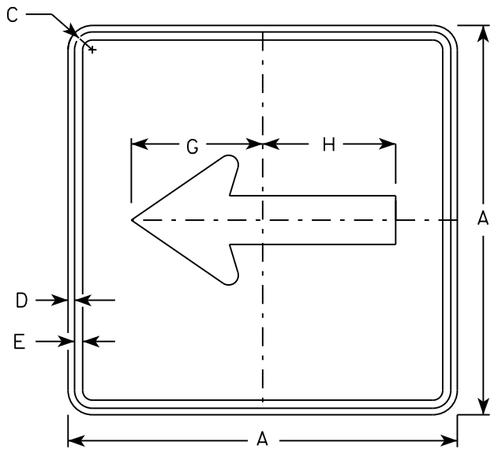
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

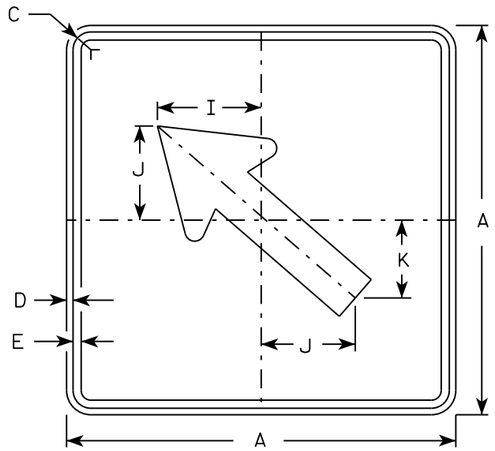
DATE 10/15/15 PLATE NO. M5-1.13

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M51.DGN PLOT DATE : 01-DEC-2015 18:07 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



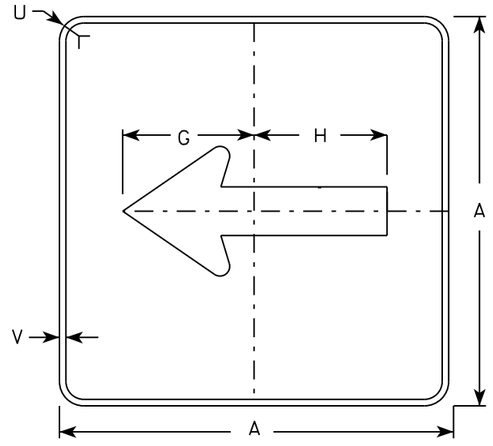
M6-1
MM6-1
MO6-1
MP6-1



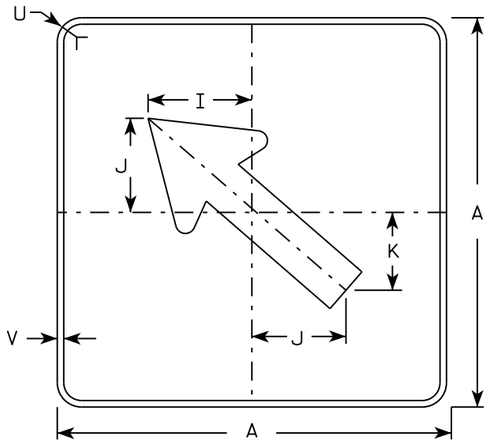
M6-2
MM6-2
MO6-2
MP6-2

NOTES

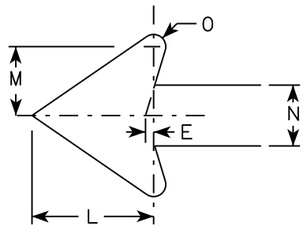
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - White
   Message - Black
   MB6-1 and MB6-2 Background - Blue
   Message - White
   MK6-1 and MK6-2 Background - Green
   Message - White
   MM6-1 and MM6-2 Background - White
   Message - Green
   MN6-1 and MN6-2 Background - Brown
   Message - White
   MO6-1 and MO6-2 Background - Orange - Type F Reflective
   Message - Black
   MP6-1 and MP6-2 Background - White
   Message - Blue
   MR6-1 and MR6-2 Background - Brown
   Message - Yellow



MB6-1
MK6-1
MN6-1
MR6-1



MB6-2
MK6-2
MN6-2
MR6-2



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2						1 1/2	1/2						3.06
3	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25
4	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25
5	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25

STANDARD SIGN
M6-1 & M6-2
SERIES

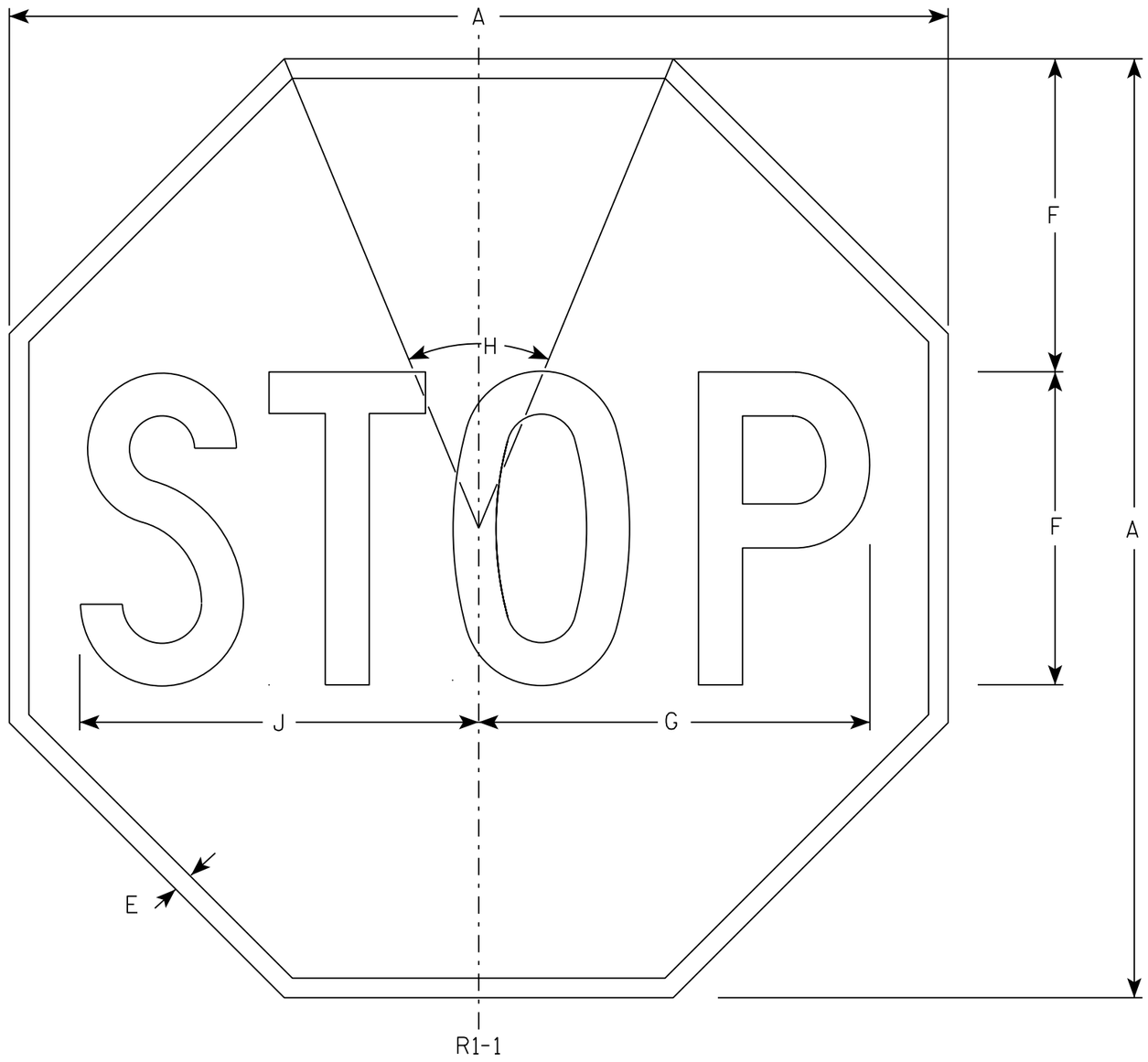
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE 207 M6-1.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M61.DGN PLOT DATE : 01-DEC-2015 17:57 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - C

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2S	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2M	36				3/4	12	15	45°		15 3/8																	7.46
3	36				3/4	12	15	45°		15 3/8																	7.46
4	48				1	16	20	45°		20 1/2																	13.25
5	48				1	16	20	45°		20 1/2																	13.25
6	18				3/8	6	7 3/4	45°		7 3/4																	1.86
7	12				1/4	4	5	45°		5 1/8																	0.78

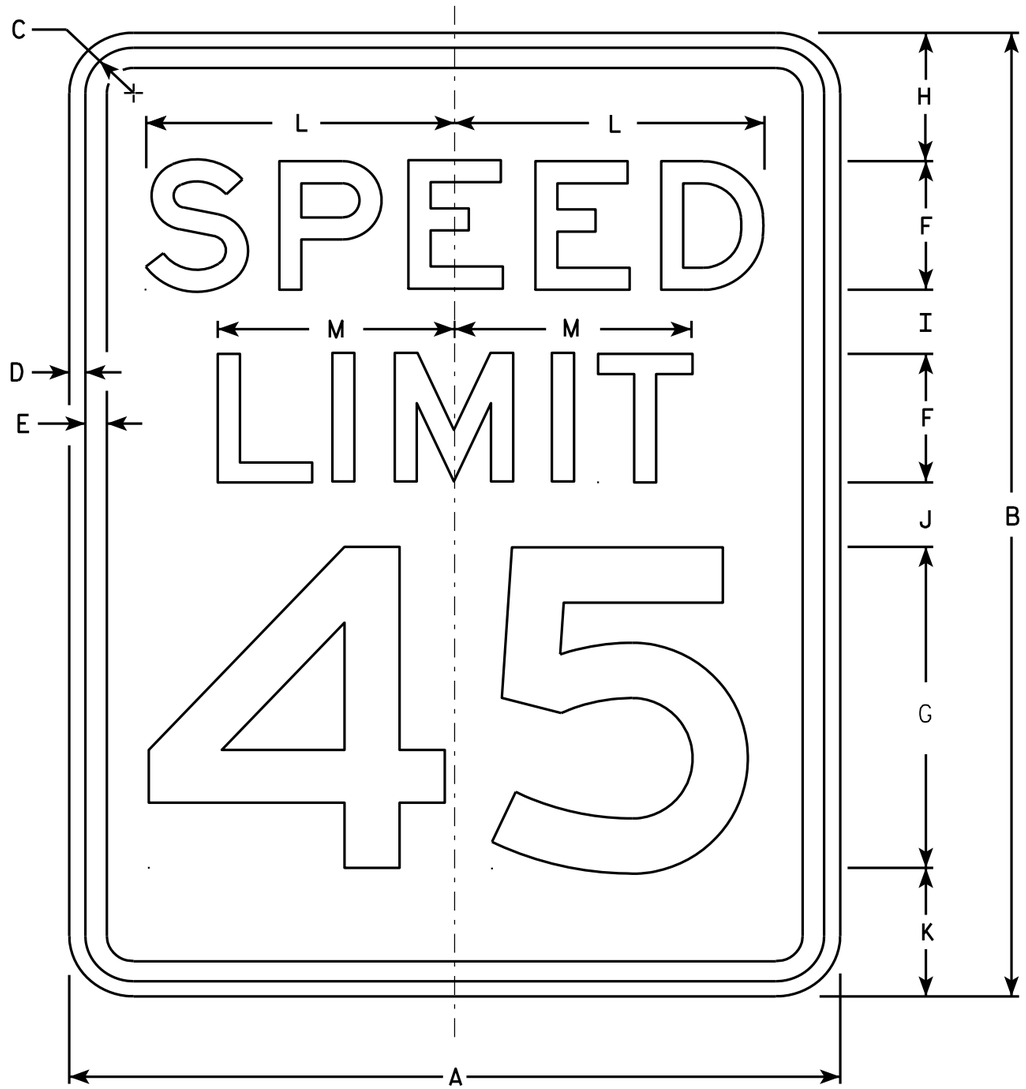
STANDARD SIGN
R1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/12/15 PLATE NO. R1-1.13

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 208	E



R2-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0
2S	24	30	1 1/8	3/8	1/2	4	10	3	2 1/4	3 3/8	3 3/8	9 5/8	7 3/8														5.0
2M	30	36	1 3/8	1/2	5/8	5	12	5	2 1/2	2 1/2	4	12	9 1/4														7.5
3	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
4	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
5	48	60	2 1/4	3/4	1	8	20	6	4 1/2	6 3/4	6 3/4	19 1/4	14 5/8														20.0

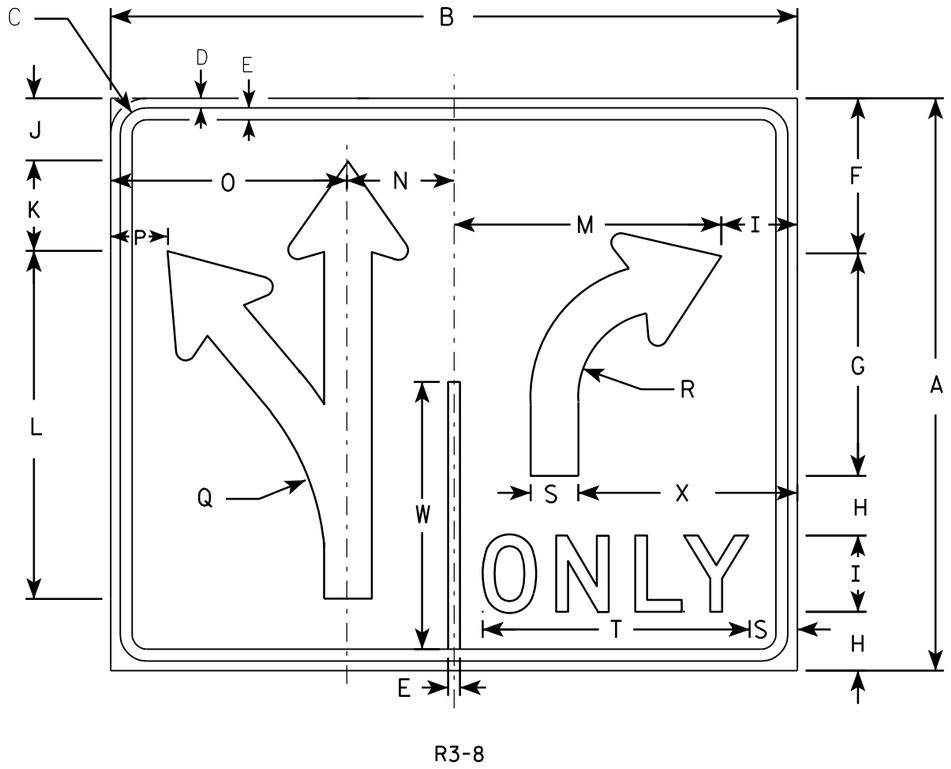
STANDARD SIGN
R2-1

WISCONSIN DEPT OF TRANSPORTATION

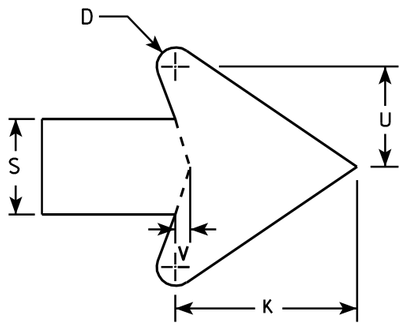
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/26/10 PLATE NO. R2-1.13

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 209 | E



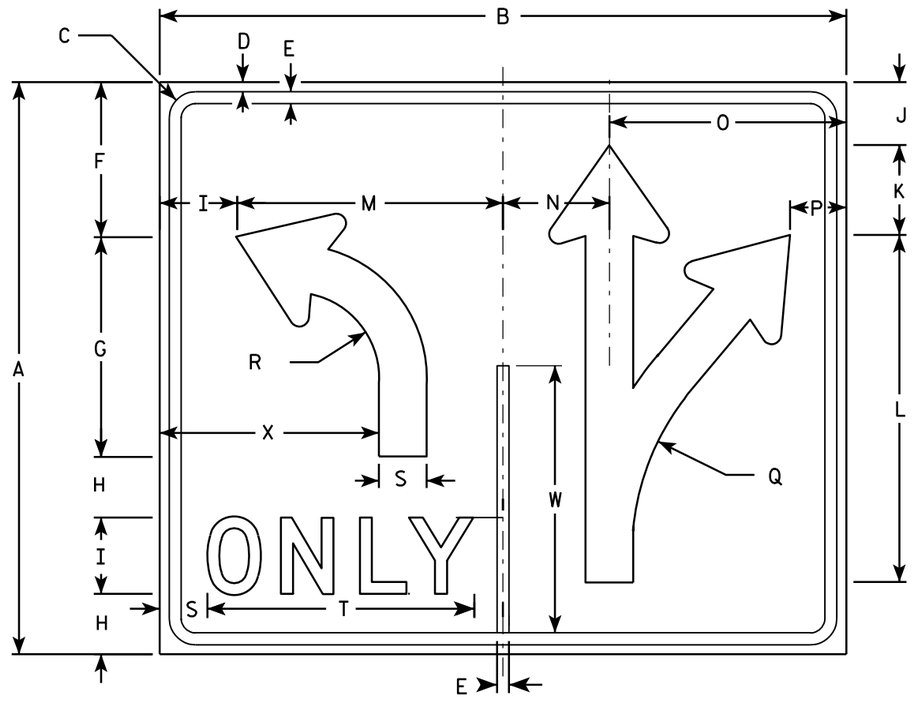
R3-8



ARROW DETAIL

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - WHITE
   Message - BLACK
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



R3-8A

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	36	1 3/8	1/2	5/8	8 1/8	11 5/8	3 1/8	4	3 1/4	4 3/4	18 1/4	14	5 5/8	12 3/8	3	13 1/4	4 1/2	2 1/2	14	2 5/8	3/8	14	11 1/2			7.5
2M	30	36	1 3/8	1/2	5/8	8 1/8	11 5/8	3 1/8	4	3 1/4	4 3/4	18 1/4	14	5 5/8	12 3/8	3	13 1/4	4 1/2	2 1/2	14	2 5/8	3/8	14	11 1/2			7.5
3																											
4	48	54	2 1/4	3/4	1	13 1/4	18 1/2	5 1/8	6	5 1/4	7 1/8	29 1/8	21	8 3/8	18 5/8	4 3/8	21 7/8	7 1/4	3 3/4	20 5/8	4	5/8	22 3/8	17 1/4			18.0
5	48	54	2 1/4	3/4	1	13 1/4	18 1/2	5 1/8	6	5 1/4	7 1/8	29 1/8	21	8 3/8	18 5/8	4 3/8	21 7/8	7 1/4	3 3/4	20 5/8	4	5/8	22 3/8	17 1/4			18.0

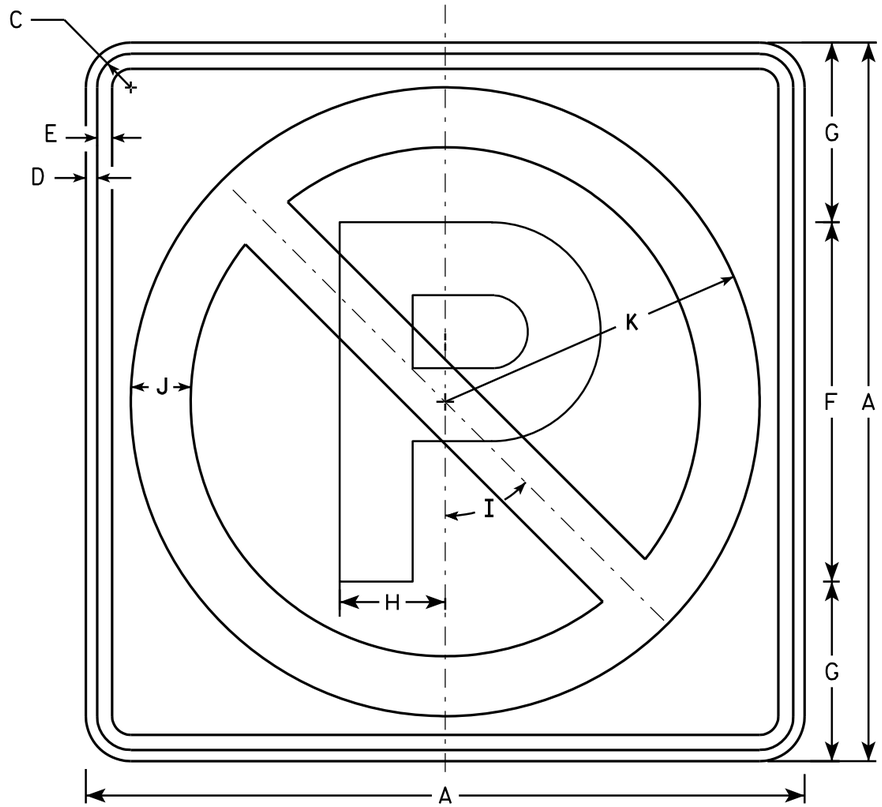
STANDARD SIGN
R3-8 & R3-8A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/2011 PLATE NO. R3-8.5

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 210	E



R3-8A

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Border & Letter P are non reflective black, the circle with diagonal bar is reflective red.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24		1 1/8	3/8	1/2	12	6	3 1/2	45°	2	10 1/2																4.0
2M	24		1 1/8	3/8	1/2	12	6	3 1/2	45°	2	10 1/2																4.0
3																											
4																											
5																											

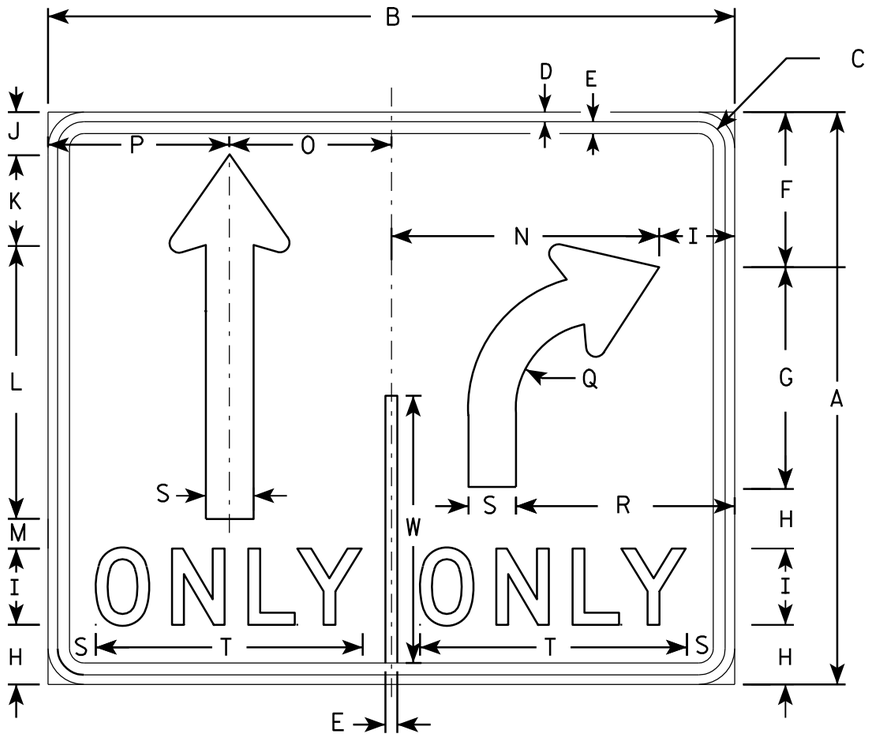
STANDARD SIGN
R3-8A

WISCONSIN DEPT OF TRANSPORTATION

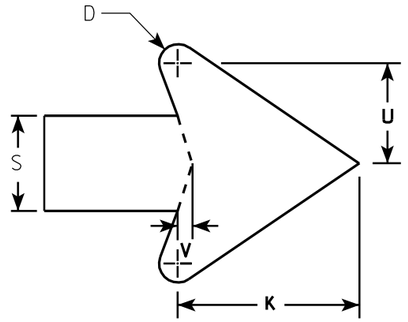
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/01/12 PLATE NO. R3-8A.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 211 | E



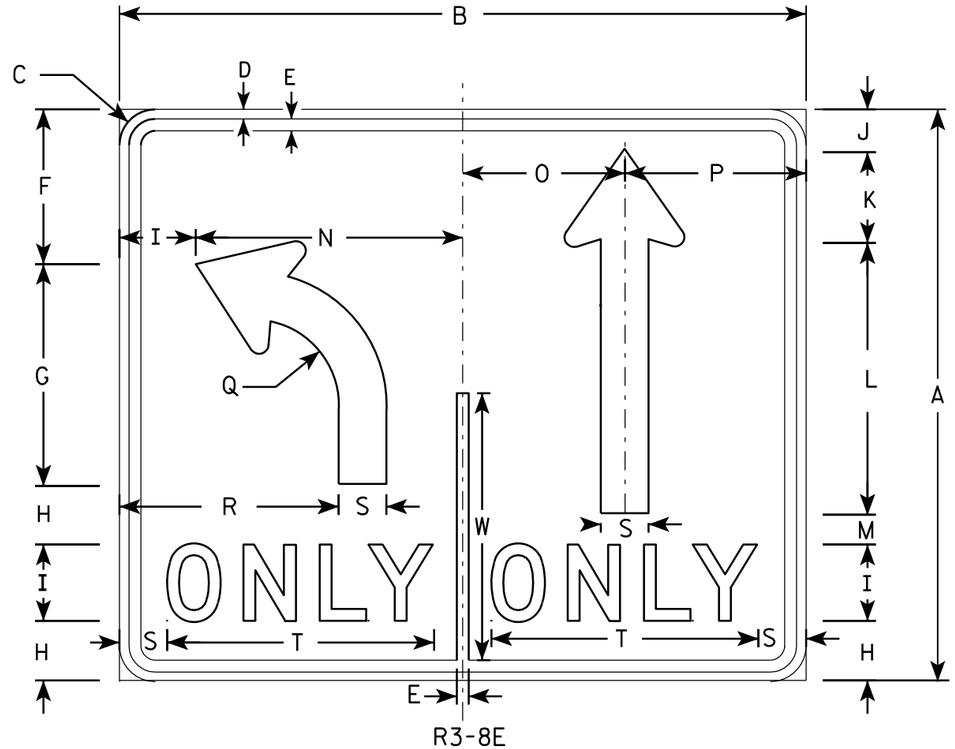
R3-8D



ARROW DETAIL

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - WHITE
   Message - BLACK
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



R3-8E

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	36	1 3/8	1/2	5/8	8 1/8	11 5/8	3 1/8	4	2 1/4	4 3/4	14 1/4	1 5/8	14	8 1/2	9 1/2	4 1/2	11 1/2	2 1/2	14	2 5/8	3/8	14				7.5
2M	30	36	1 3/8	1/2	5/8	8 1/8	11 5/8	3 1/8	4	2 1/4	4 3/4	14 1/4	1 5/8	14	8 1/2	9 1/2	4 1/2	11 1/2	2 1/2	14	2 5/8	3/8	14				7.5
3																											
4	48	54	2 1/4	3/4	1	13 1/4	18 1/2	5 1/8	6	3 1/2	7 1/8	21 1/2	4 3/4	21	12 3/4	14 1/4	7 1/4	17 1/8	3 3/4	20 5/8	4	5/8	22 3/8				18.0
5	48	54	2 1/4	3/4	1	13 1/4	18 1/2	5 1/8	6	3 1/2	7 1/8	21 1/2	4 3/4	21	12 3/4	14 1/4	7 1/4	17 1/8	3 3/4	20 5/8	4	5/8	22 3/8				18.0

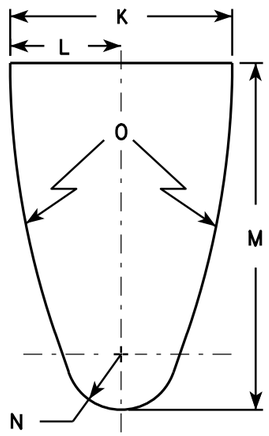
STANDARD SIGN
R3-8D & R3-8E

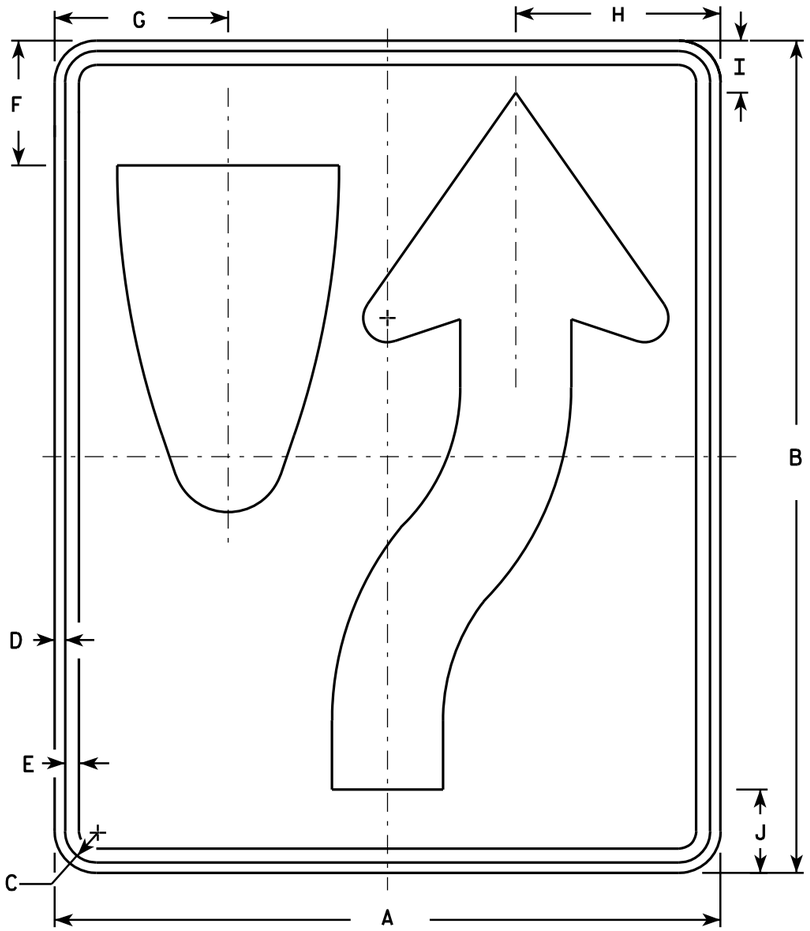
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/2011 PLATE NO. R3-8D.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 212	E

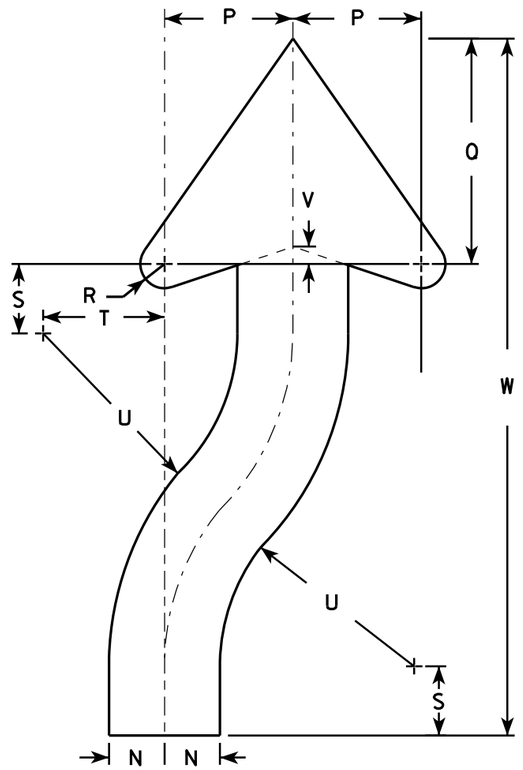




R4-7

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition. material is plywood but borders shall be rounded
2. Color:
   Background - White
   Message - Black
3. Corners may be square or rounded when base as shown. When base material is metal, the corners and borders shall be rounded.
4. R4-8 is the same as R4-7 except Legend is reversed.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3 3/8	4 3/4	5 1/2	1 3/8	2 1/4	6	3	9 3/8	1 1/2	22 1/2	3 1/2	6 1/8	5/8	1 7/8	3 1/4	6 3/4	1/2	20 3/8				3.0
2S	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
2M	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
3	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
4	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
5	48	60	2 1/4	3/4	1	9	12 1/2	14 3/4	3 3/4	6	16	8	25	4	60	9 1/4	16 1/4	1 5/8	5	8 3/4	18	1 1/4	50 1/4				20.0

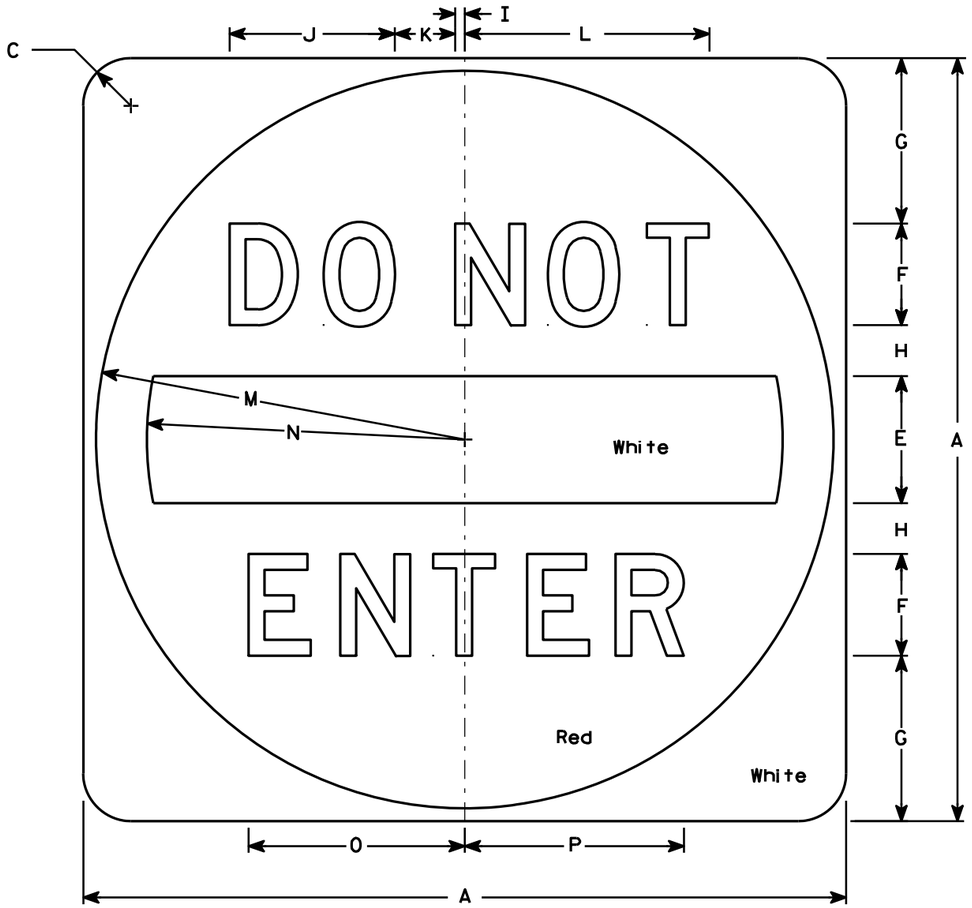
STANDARD SIGN
R4-7 & R4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R4-7.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 213	E



R5-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - See detail
   Message - White - Type H Reflective
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but when base material is metal, the cornors shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30		1 7/8		5	4	6 1/2	2	3/8	6 1/2	2 3/8	9 5/8	14 1/2	12 1/2	8 1/2	8 5/8											6.26
2M	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
3	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
4	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
5	48		3		8	6	11	3	5/8	9 3/4	3 5/8	14 1/2	23 1/2	20	12 3/4	12 7/8											16.0

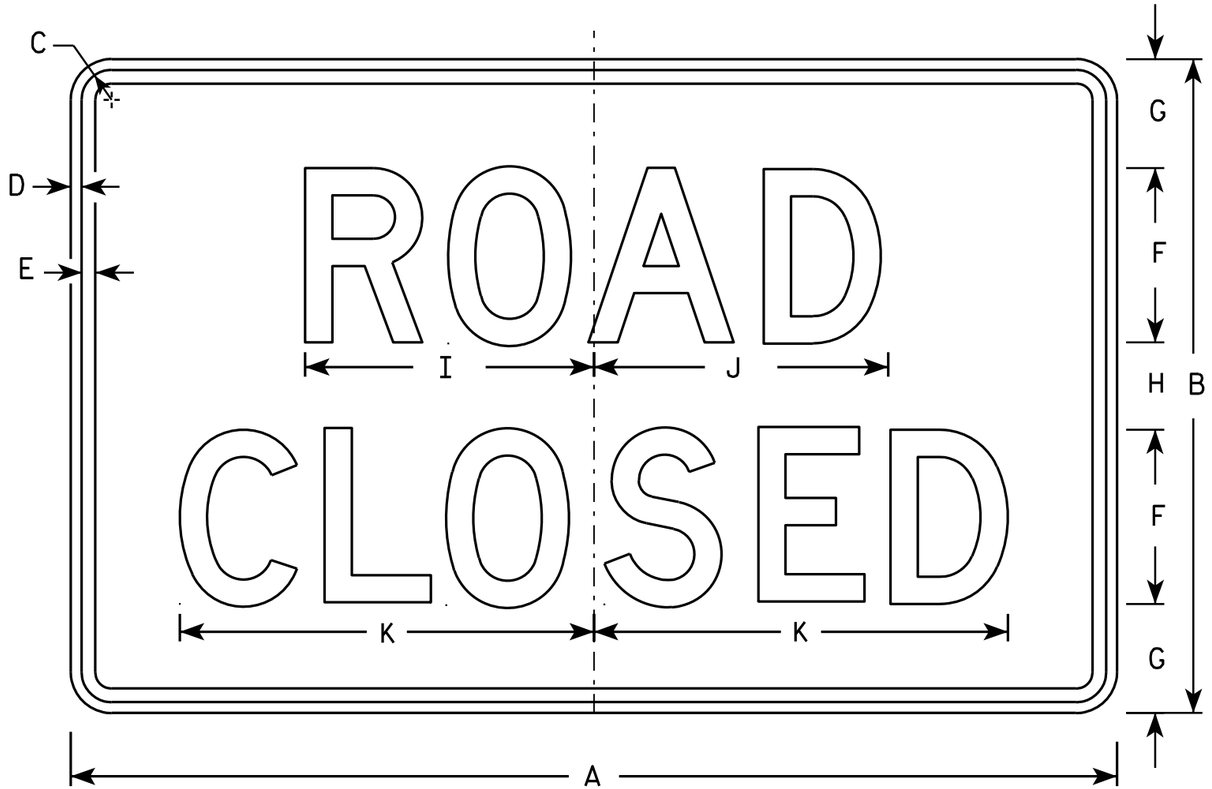
STANDARD SIGN
R5-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/17/10 PLATE NO. R5-1.15

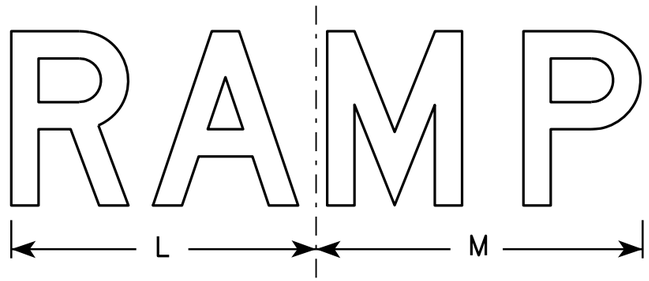
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 214 | E



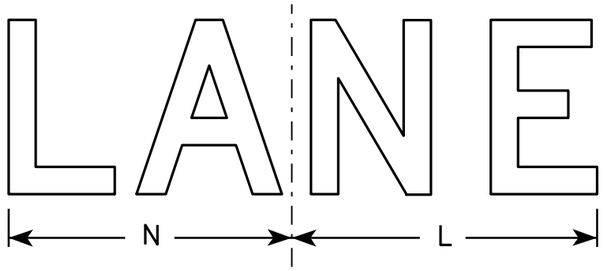
R11-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Modify the message as required.



R11-2R



R11-2L

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
2M	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
3	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
4	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
5	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0

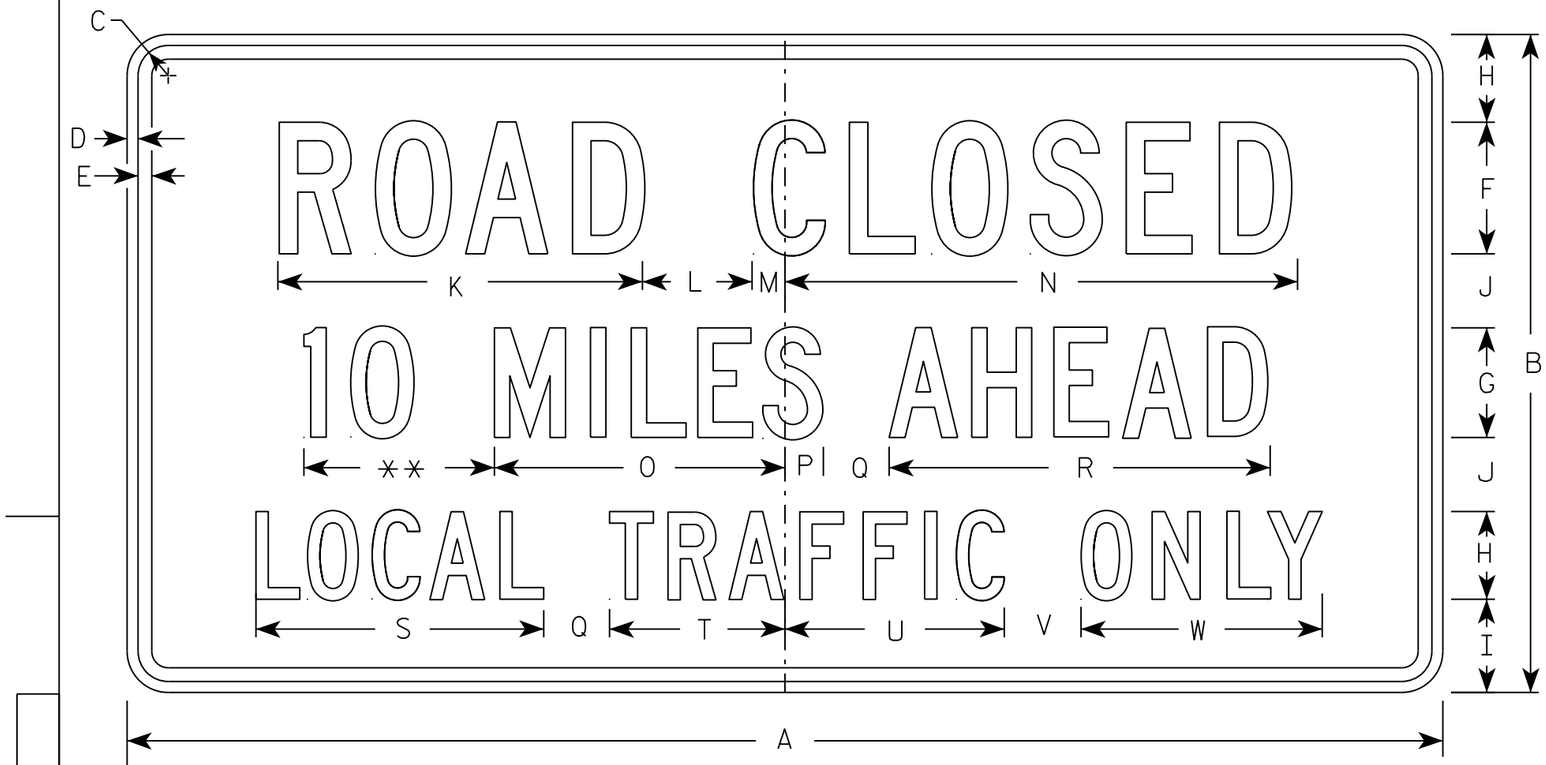
STANDARD SIGN
R11-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

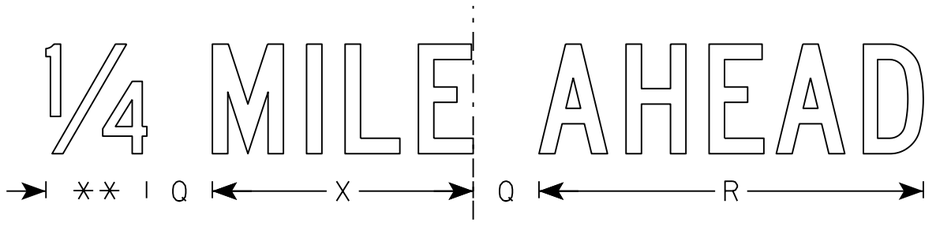
DATE 4/1/11 PLATE NO. R11-2.10

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 215	E



R11-3

** See Note 5



NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals to nearest quarter mile and optically adjust spacing to achieve proper balance.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	18	1 3/8	1/2	5/8	4	3	2 1/2	2	2	11 1/8	3	1 1/8	15 1/4	8	1 1/2	2	10 3/4	8 3/8	4 3/4	6 1/2	2	6 3/4	7 1/8			4.5
2S	60	30	1 3/8	1/2	5/8	6	5	4	4 1/4	3 3/8	16 5/8	5	1 1/2	23	13 1/4	1 3/4	3	17 3/8	13 1/8	8	10	3 1/2	11	11 7/8			12.5
2M	60	30	1 3/8	1/2	5/8	6	5	4	4 1/4	3 3/8	16 5/8	5	1 1/2	23	13 1/4	1 3/4	3	17 3/8	13 1/8	8	10	3 1/2	11	11 7/8			12.5
3																											
4																											
5																											

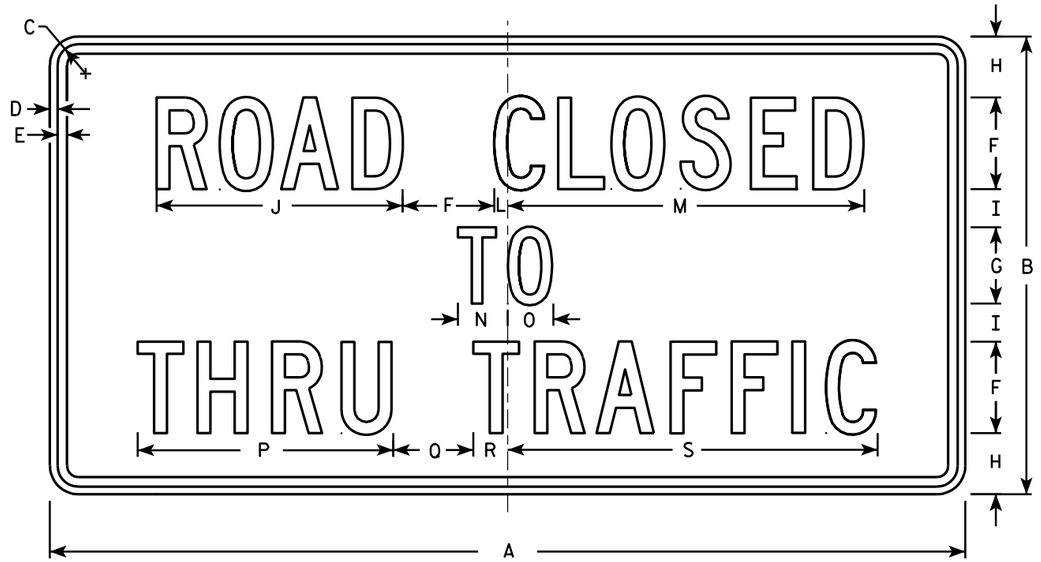
STANDARD SIGN
R11-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/15/17 PLATE NO. R11-3.8

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 216 | E



R11-4

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	60	30	1 3/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
2M	60	30	1 3/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
3																											
4																											
5																											

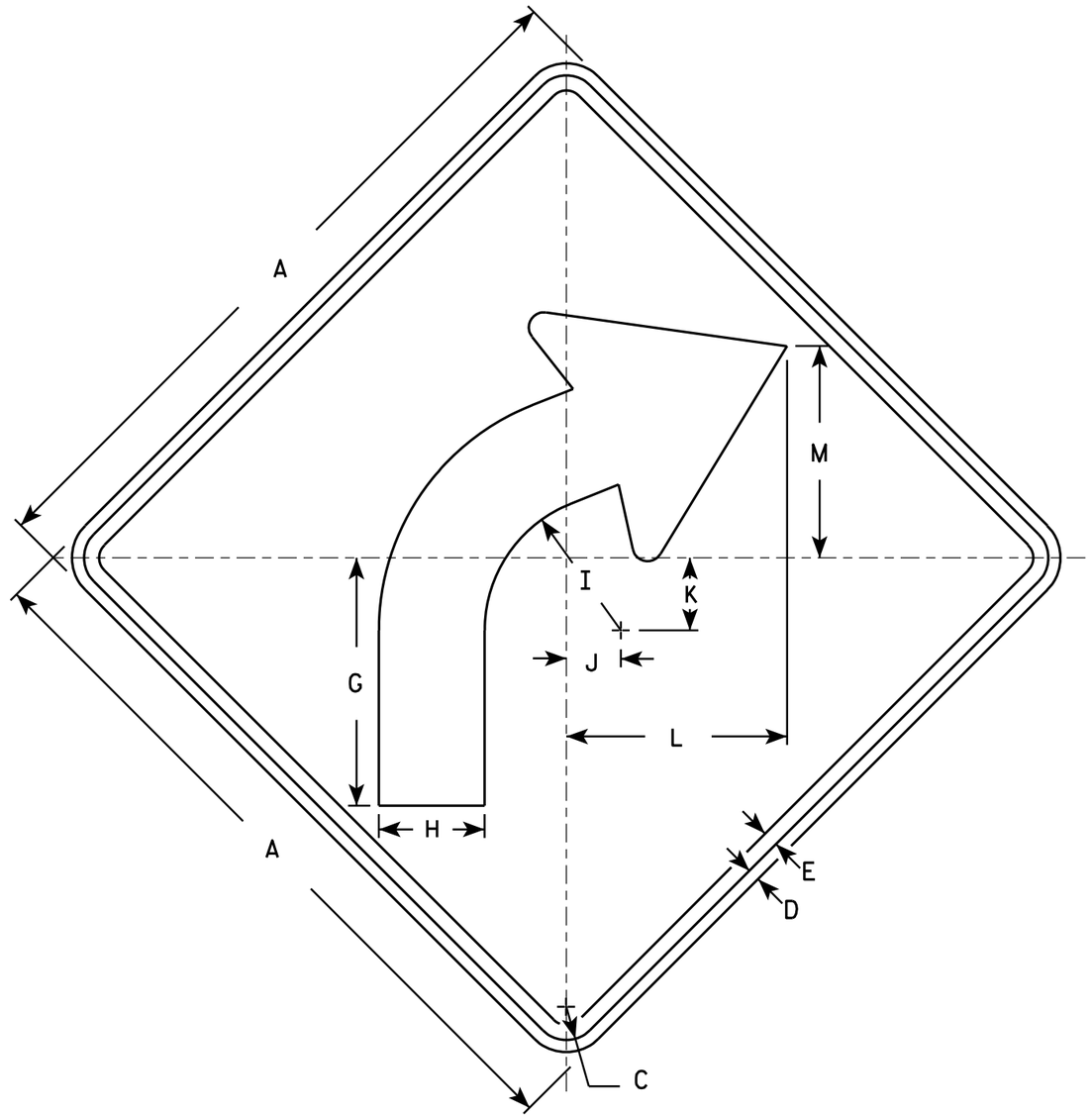
STANDARD SIGN
R11 - 4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 4/1/11 PLATE NO. R11-4.3

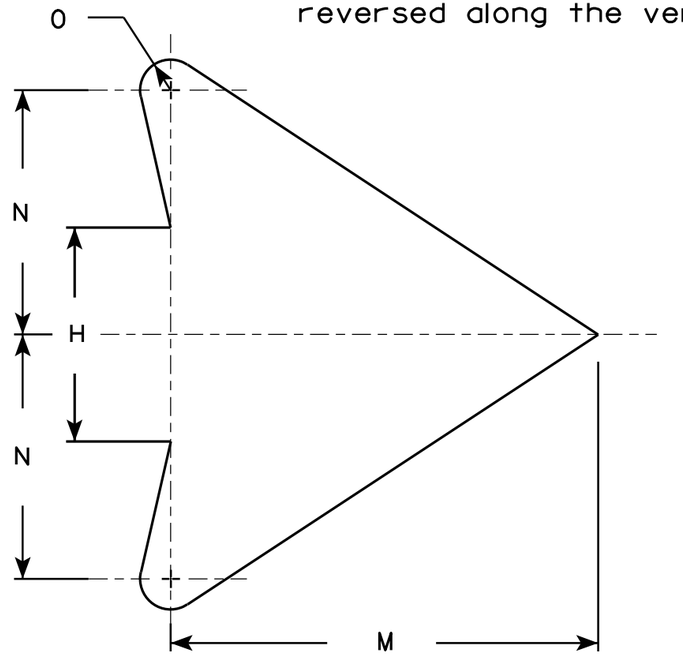
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 217 | E



W1-2R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W1-2L is the same as W1-2R except the arrow is reversed along the vertical centerline.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2		8 1/4	3 1/2	4 1/2	1 3/4	2 3/8	7 1/4	7	4	1/2												4.0
2S	30		1 3/8	1/2	5/8		10 1/4	4 3/8	5 5/8	2 1/4	3	9 1/8	8 3/4	5	5/8												6.25
2M	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
3	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
4	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
5	48		2 1/4	3/4	1		16 1/2	7	9	3 1/2	4 5/8	14 1/2	14	8	1												16.0

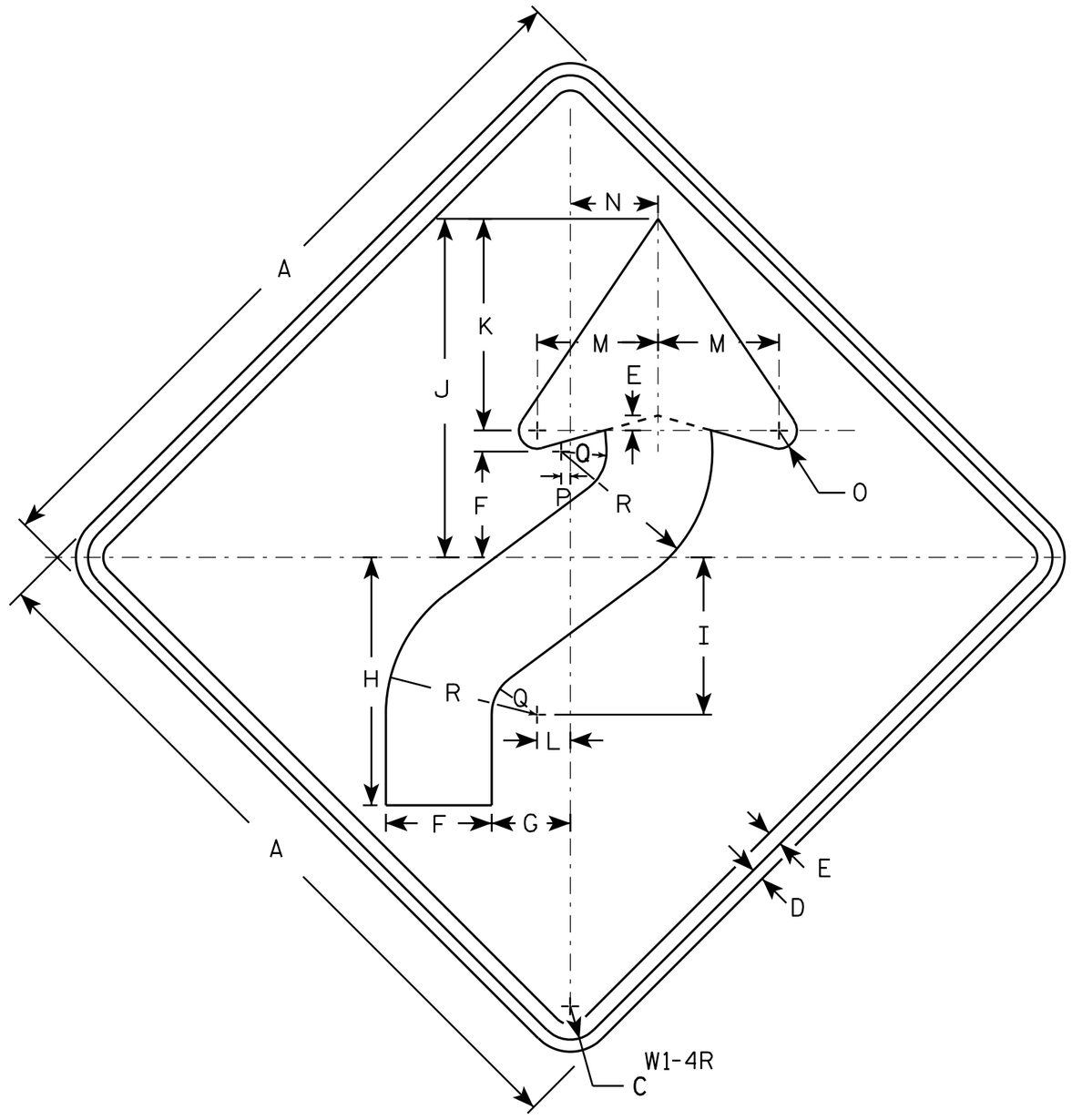
STANDARD SIGN
W1-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/15/12 PLATE NO. W1-2.10

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 218	E



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W1-4L is the same as W1-4R except the arrow is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	3 1/2	2 5/8	8 1/4	5 1/4	11 1/4	7	1 1/8	4	3	5/8	1/4	1 1/2	5									4.0
2S	30		1 3/8	1/2	5/8	4 3/8	3 1/4	10 1/4	6 1/2	14	8 3/4	1 3/8	5	3 5/8	3/4	3/8	1 7/8	6 1/4									6.25
2M	36		1 5/8	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
3	36		1 5/8	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
4	36		1 5/8	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
5	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0

STANDARD SIGN

W1-4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

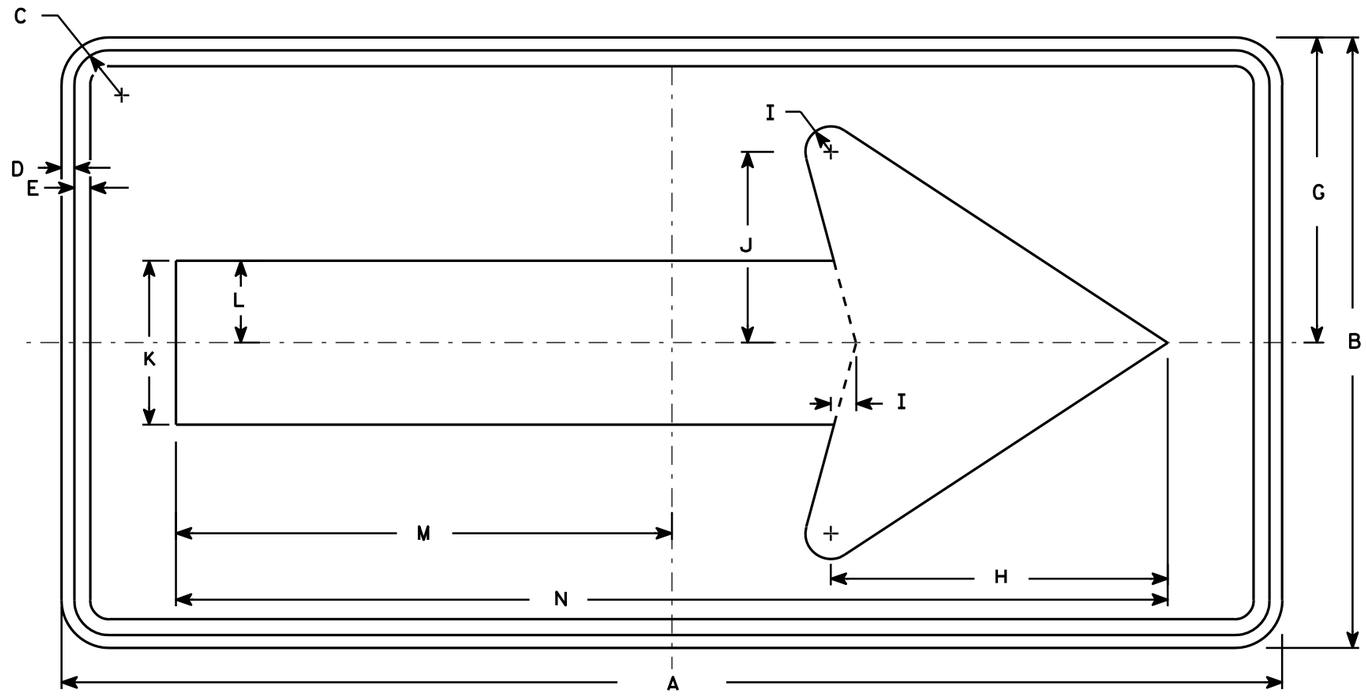
DATE 5/17/12 PLATE NO. W1-4.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 219 | E

7

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W14.DGN PLOT DATE : 17-MAY-2012 13:20 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 5.706180:1.000000

WISDOT/CADDS SHEET 42



W1-6

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	18	1 1/8	3/8	3/8		9	10	3/4	5 5/8	4 3/4	2 3/8	14 5/8	29 1/4													4.5
2S	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
2M	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
3	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
4	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
5	96	48	2 1/4	3/4	1		24	26 1/2	2	15	13	6 1/2	39	78													32.0

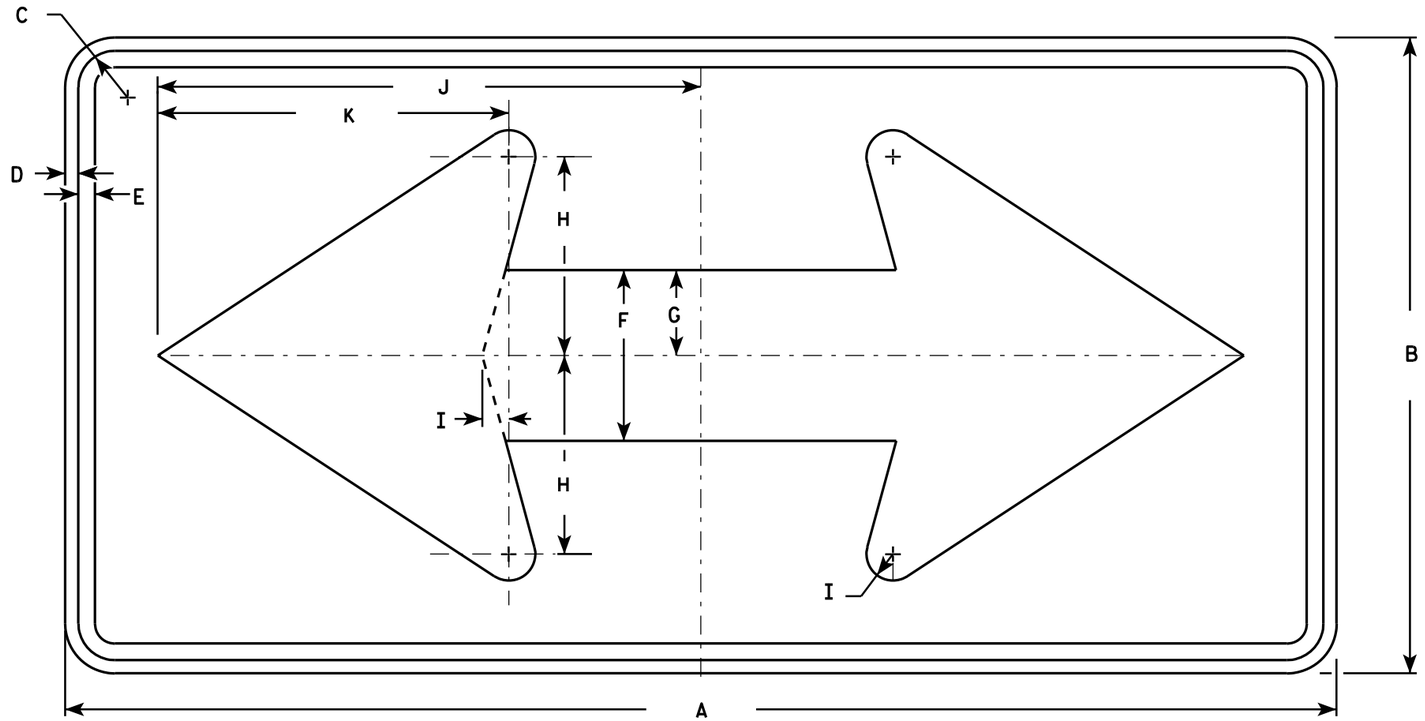
STANDARD SIGN
W1-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W1-6.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 220



W1-7

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	18	1 1/8	3/8	1/2	5	2 1/2	5 3/4	3/4	15 5/8	10 1/8																4.5
2S	48	24	1 3/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
2M	48	24	1 3/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
3	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5
4	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5
5	96	48	2 1/4	3/4	1	13	6 1/2	15	2	41	26 1/2																32.0

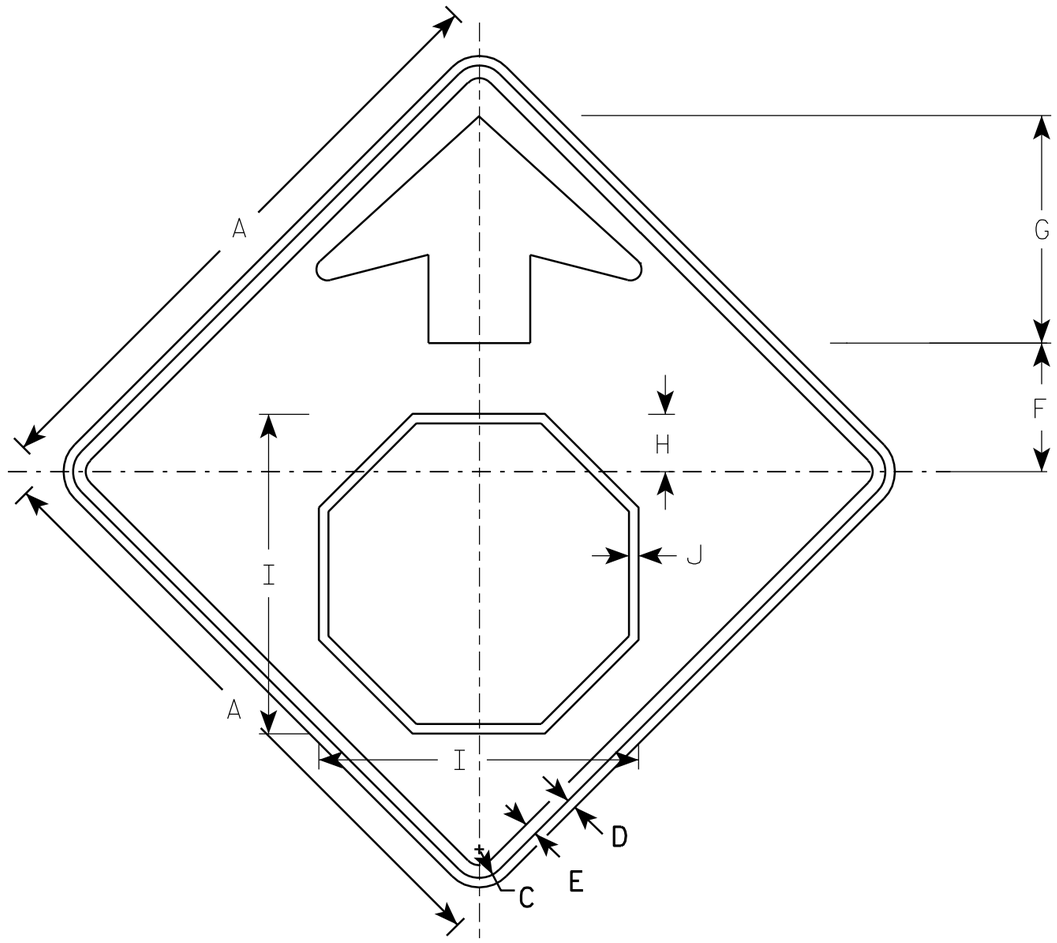
STANDARD SIGN
W1-7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W1-7.7

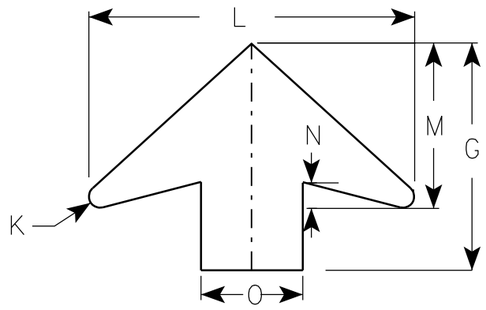
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 221 | E



W3-1

NOTES

1. All Signs Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - YELLOW
   Arrow & Border - BLACK
   Stop Symbol - WHITE BORDER ON RED BACKGROUND



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	6 1/4	11 1/4	2 7/8	15 3/4	1/2	1/2	16	8	1 1/4	5												6.25
2S	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
2M	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
3	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
4	48		2 1/4	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0
5	48		2 1/4	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0

STANDARD SIGN
W3-1

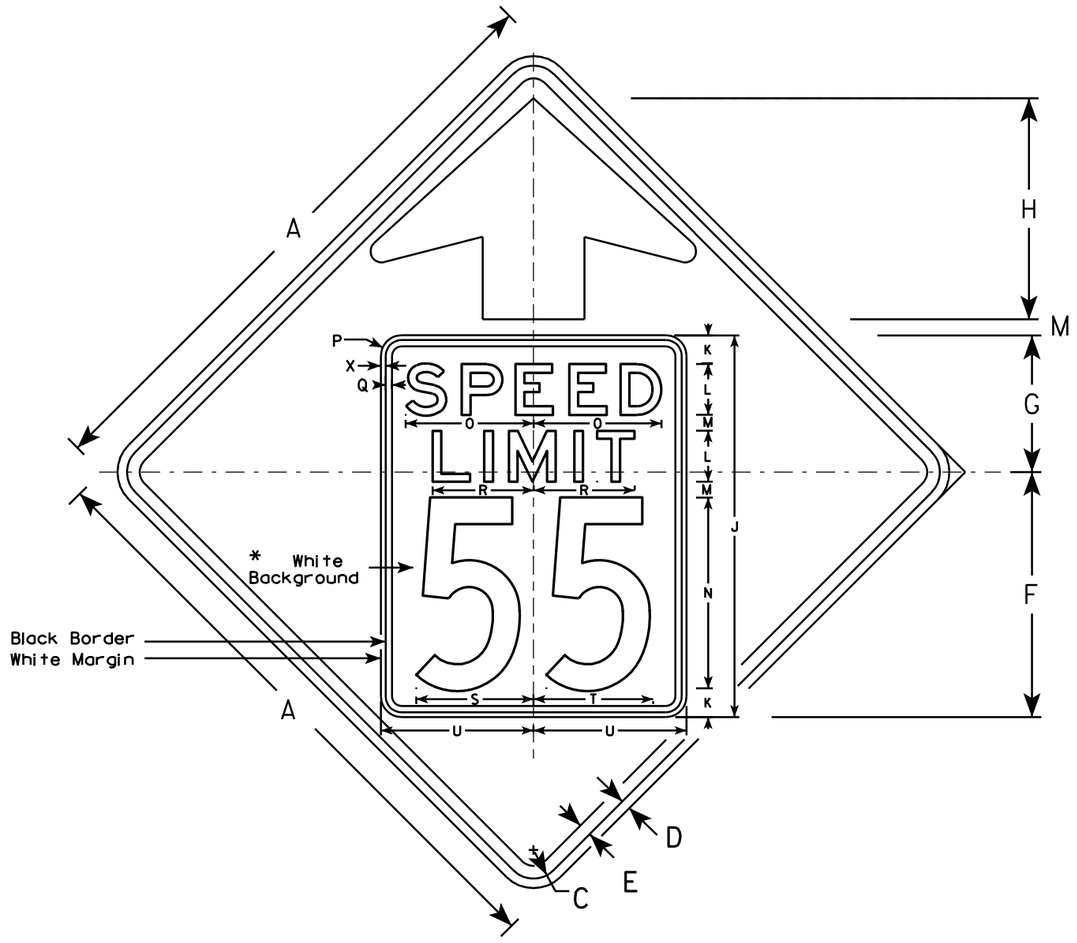
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W3-1.12

PROJECT NO:

SHEET NO: 222 E

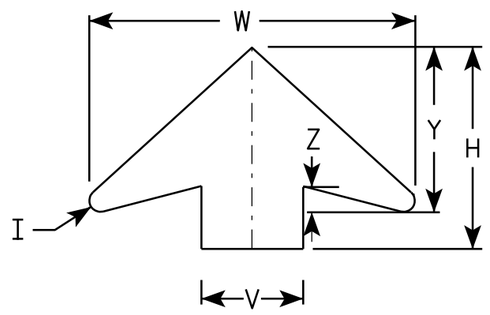


W3-5

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color: *
   Background - YELLOW*
   Message - BLACK
3. Message Series - C for numbers Series E for wording
4. Substitute appropriate numerals and optically adjust spacing to achieve proper balance

*Speed Limit Sign shall have a White Background



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
2M	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
3	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
4	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0
5	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0

STANDARD SIGN
W3-5

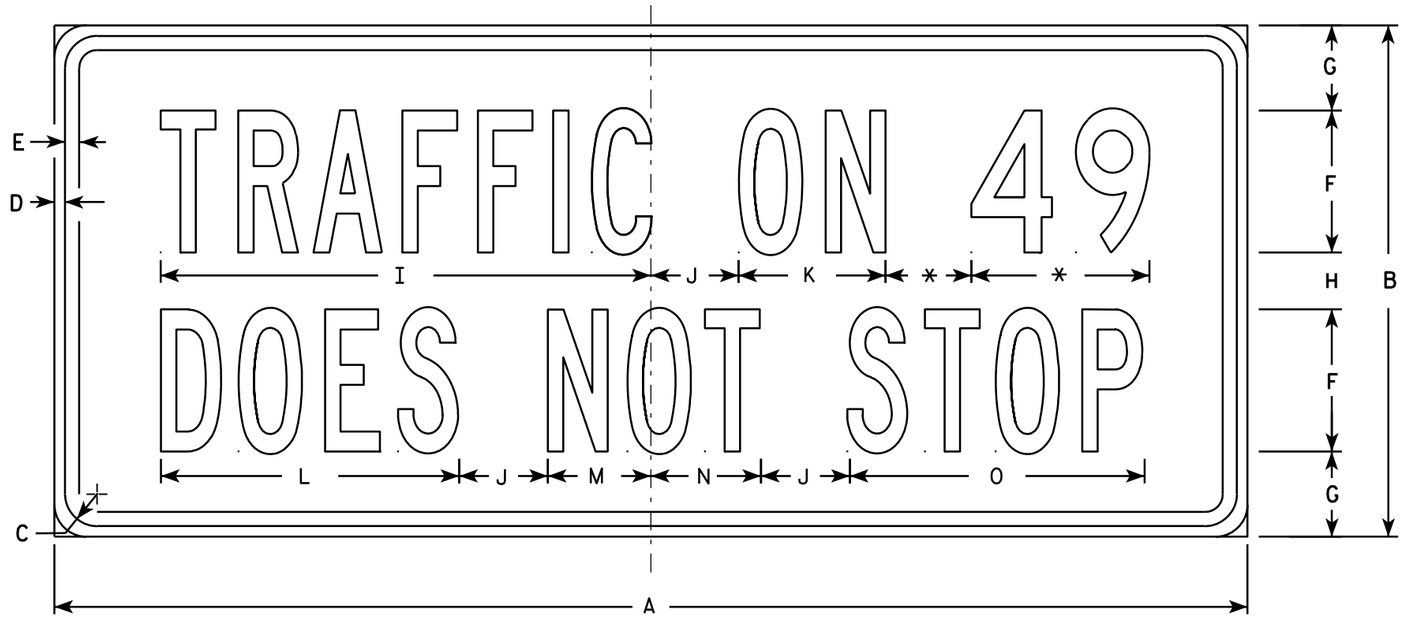
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/29/12 PLATE NO. W3-5.5

PROJECT NO:

SHEET NO: 223 E



W4-4C

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - B (See note 5)
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Highway Number usually Series D. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

* VARIES

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	12	1 1/8	3/8	3/8	3	2 1/4	1 1/2	10 3/8	1 1/2	3 1/8	6 1/4	2 1/4	2 1/4	6 1/4												2.0
2M	24	12	1 1/8	3/8	3/8	3	2 1/4	1 1/2	10 3/8	1 1/2	3 1/8	6 1/4	2 1/4	2 1/4	6 1/4												2.0
3	36	15	1 1/8	3/8	1/2	4	2 5/8	1 3/4	13 7/8	2 3/8	4 1/4	8 3/8	3 1/8	3 1/8	8 3/8												3.75
4	42	18	1 1/8	3/8	1/2	5	3	2	17 1/4	3 1/8	5 1/8	10 1/2	3 7/8	3 7/8	10 3/8												5.25
5																											

STANDARD SIGN
W4-4C

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 03/12/13 PLATE NO. W4-4.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 224 | E

W4-4P

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - B
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	12	1 1/8	3/8	3/8	3	2 1/4	1 1/2	8	1 1/2	3/8	10	6 1/4	2 1/4	2 1/4	6 1/4											2.0
2M	24	12	1 1/8	3/8	3/8	3	2 1/4	1 1/2	8	1 1/2	3/8	10	6 1/4	2 1/4	2 1/4	6 1/4											2.0
3	36	15	1 1/8	3/8	1/2	4	2 5/8	1 3/4	10 3/4	2 3/8	3/8	13 1/2	8 3/8	3	3 1/8	8 3/8											3.75
4	42	18	1 1/8	3/8	1/2	5	3	2	13 3/8	3 1/8	3/8	16 7/8	10 1/2	3 5/8	3 7/8	10 3/8											5.25
5																											

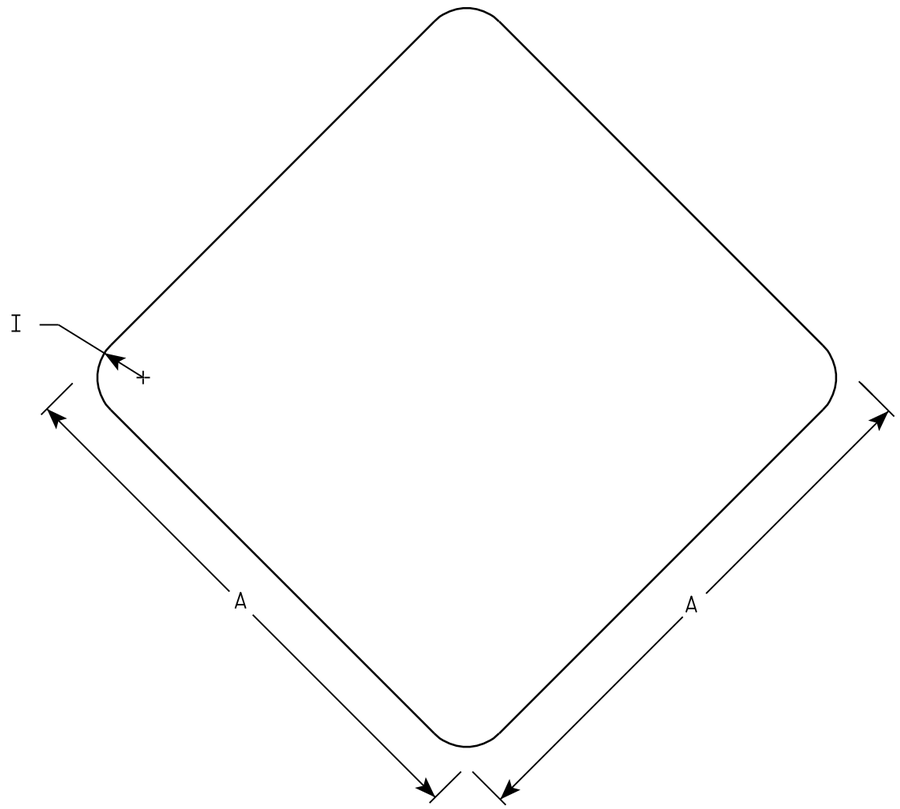
STANDARD SIGN
W4-4P

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 03/12/13 PLATE NO. W4-4P.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 225	E



W5-54

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
3. Corners may be square or rounded when base material is plywood. When base material is metal the corners shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	12								1																		1.0
2S	18								1 ½																		2.25
2M	18								1 ½																		2.25
3																											
4																											
5																											

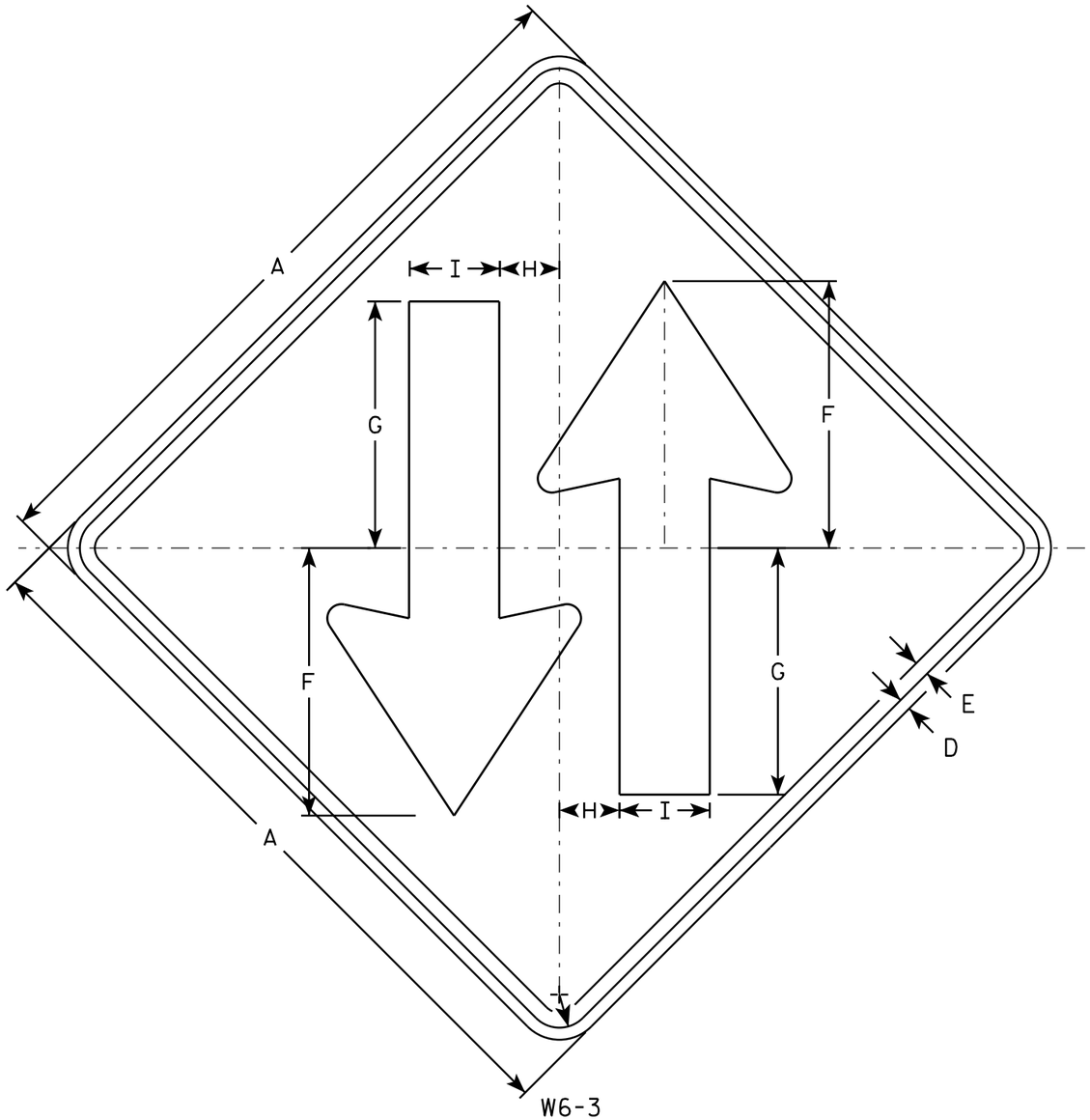
STANDARD SIGN
W5-54

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/3/10 PLATE NO. W5-54.8

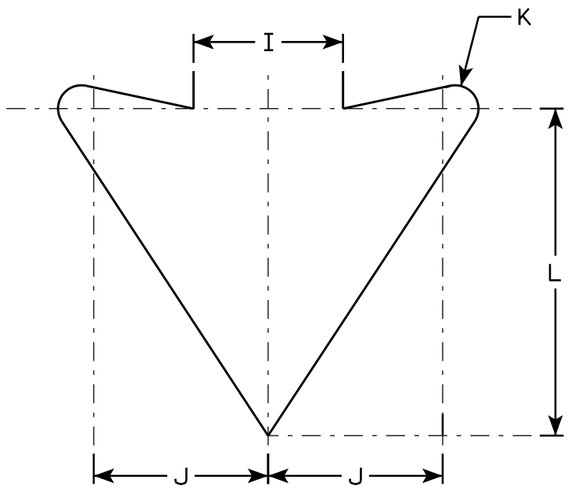
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 226 | E



W6-3

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	11 1/8	10 1/4	2 1/2	3 3/4	4 3/8	5/8	8 1/4															6.25
2S	36		1 5/8	5/8	3/4	13 3/8	12 1/4	3	4 1/2	5 1/4	3/4	9 7/8															9.0
2M	36		1 5/8	5/8	3/4	13 3/8	12 1/4	3	4 1/2	5 1/4	3/4	9 7/8															9.0
3																											
4	48		2 1/4	3/4	1	17 3/4	16 3/8	4	6	7	1	13 1/8															16.0
5	48		2 1/4	3/4	1	17 3/4	16 3/8	4	6	7	1	13 1/8															16.0

STANDARD SIGN
W6-3

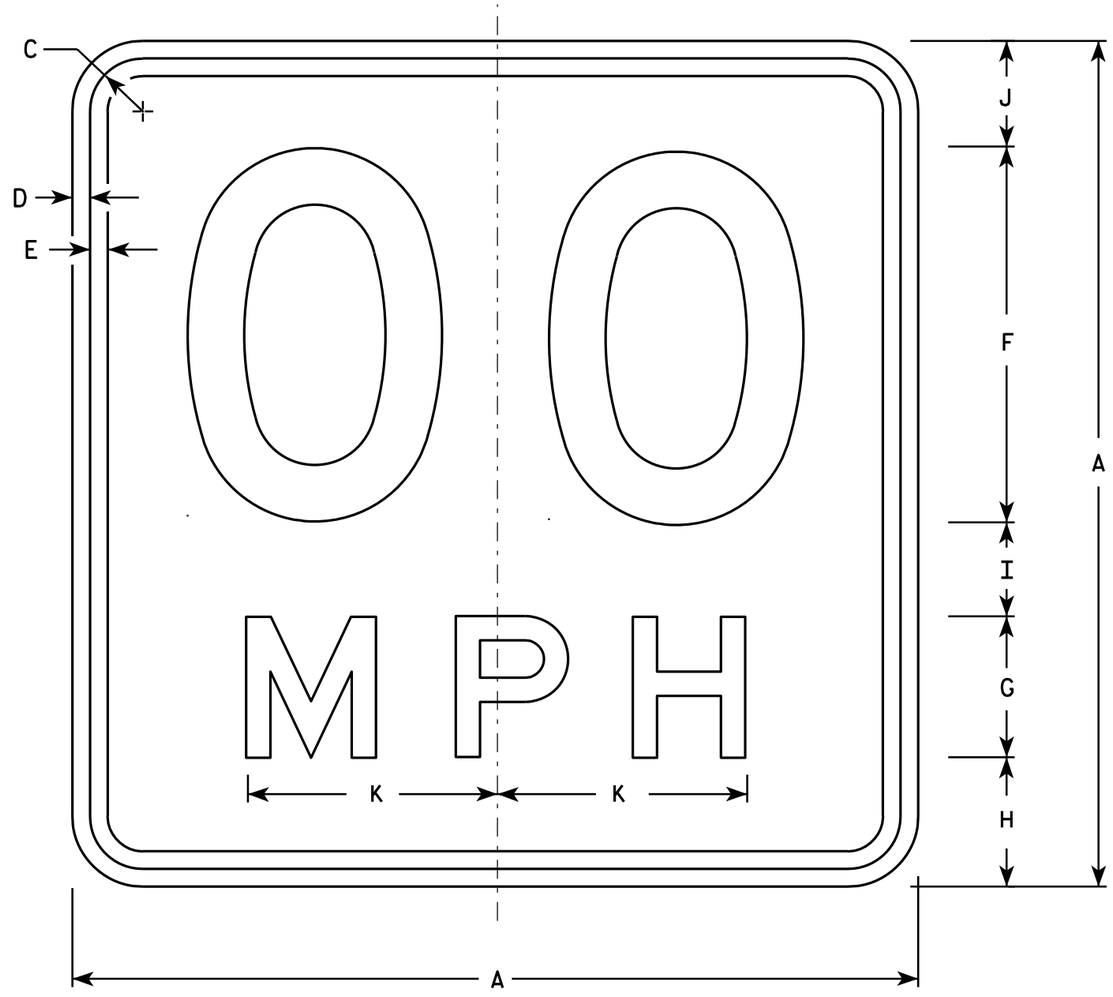
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/10/16 PLATE W6-3.11

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W63.DGN PLOT DATE : 10-MAR-2016 14:01 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 6.080757:1.000000 WISDOT/CADDS SHEET 42



W13-1

* For 30" x 30" Warning Signs, use 18" x 18" W13-1 signs.
For 36" x 36" Warning Signs, use 24" x 24" W13-1 signs.

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - See Note 6
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically space about centerline to achieve proper balance.
6. Line 1 is Series D
   Line 2 is Series E

	SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
	1	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
*	2S	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
*	2M	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
	3	24		1 1/8	3/8	1/2	10	4	4	2 3/4	3 1/4	6 5/8																4.00
	4	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
	5	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00

STANDARD SIGN
W13-1

WISCONSIN DEPT OF TRANSPORTATION

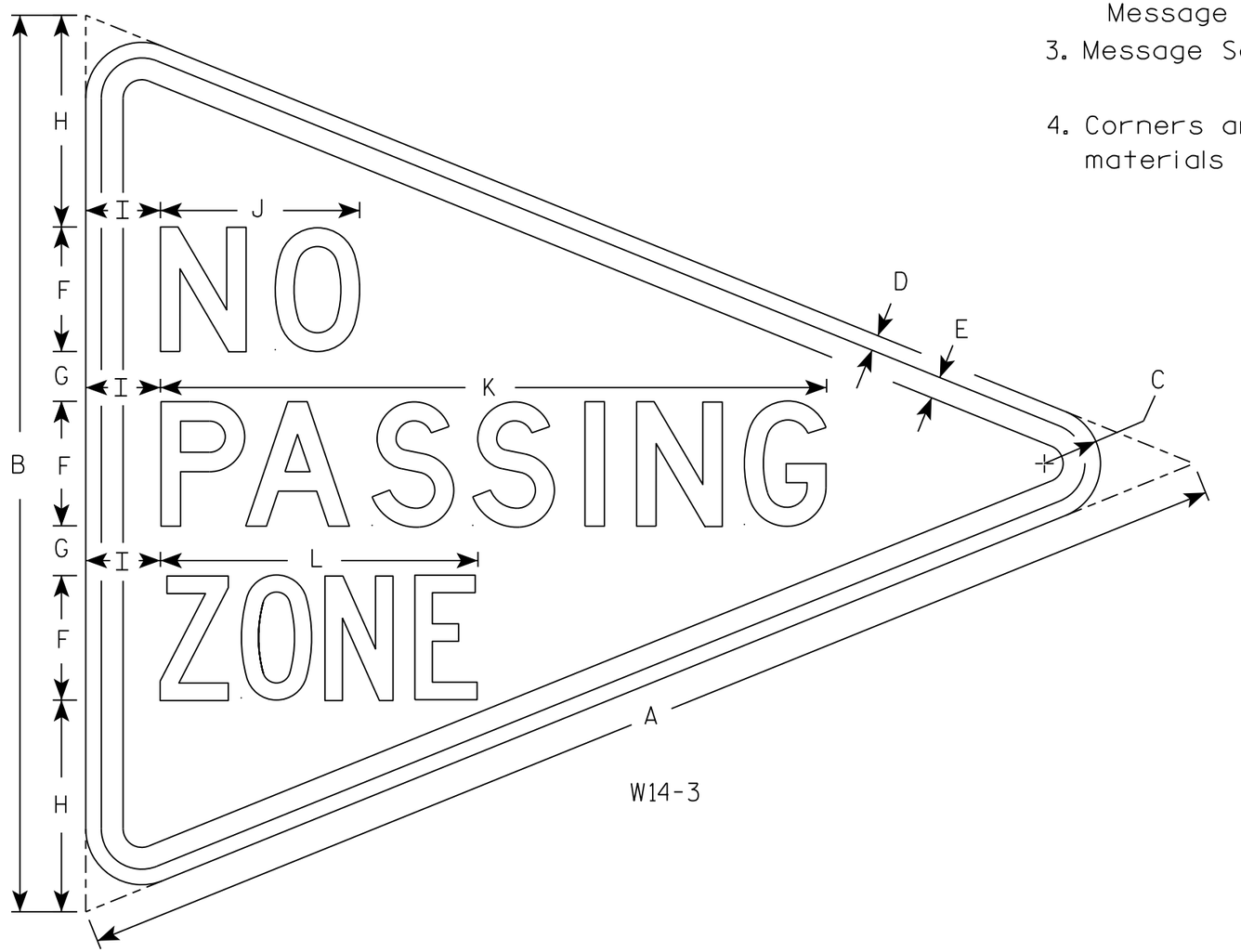
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 5/31/12 PLATE NO. W13-1.16

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 228 | E

NOTES

1. Sign is Type II- Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - Lines 1 and 2 are Series D.
   Line 3 is series C.
4. Corners and borders shall be rounded on all base materials for this sign.



W14-3

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	36	2 1/4	5/8	7/8	5	2	8 1/2	3	8	26 3/4	12 3/4															5.56
2M																											
3																											
4																											
5																											

STANDARD SIGN
W14-3

WISCONSIN DEPT OF TRANSPORTATION

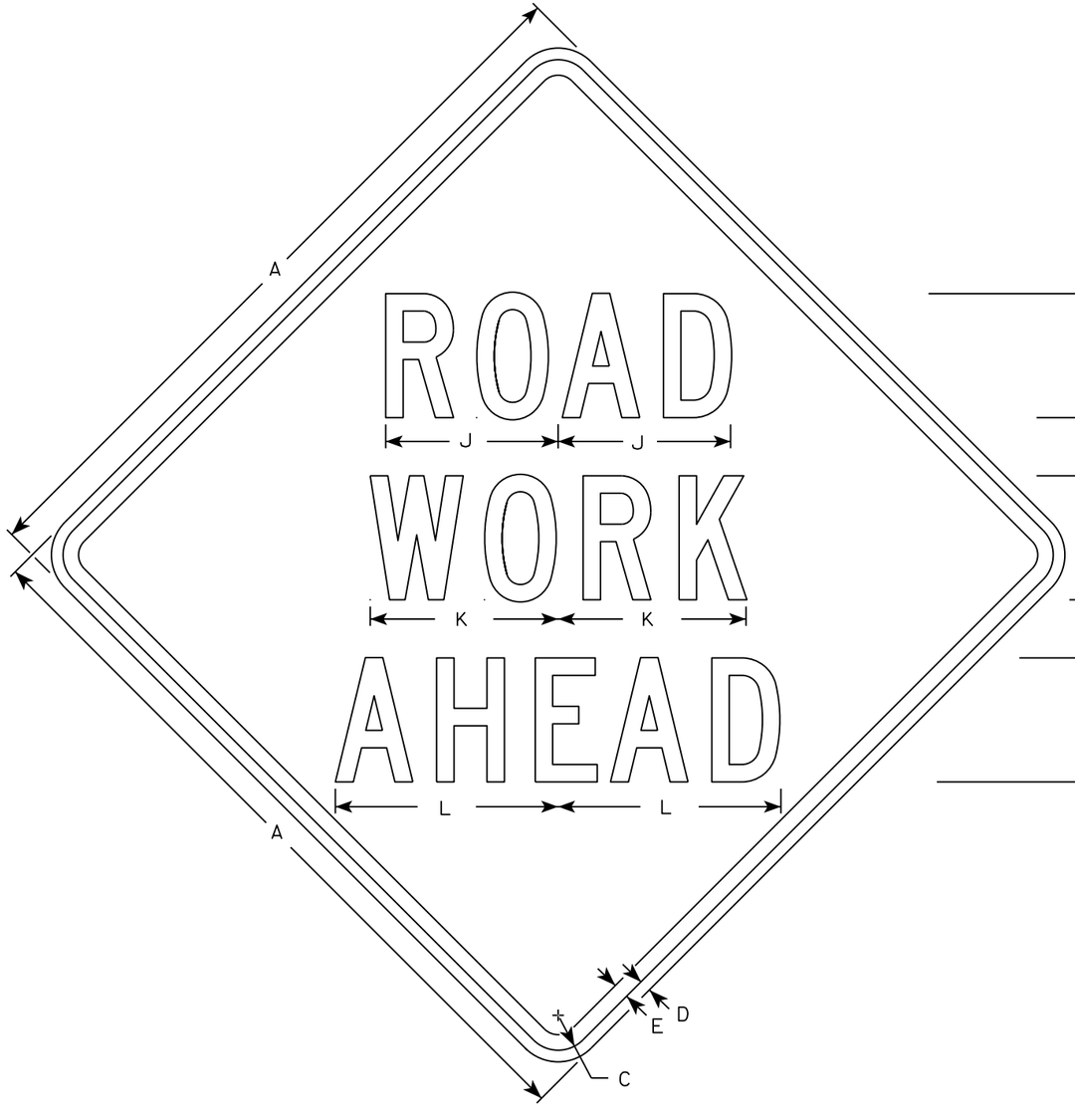
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/21/17 PLATE NO. W14-3.10

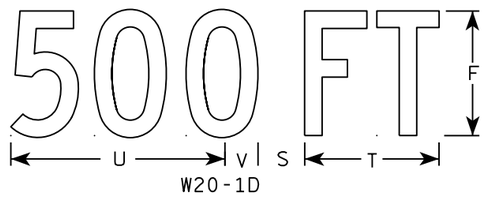
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 229 | E

7

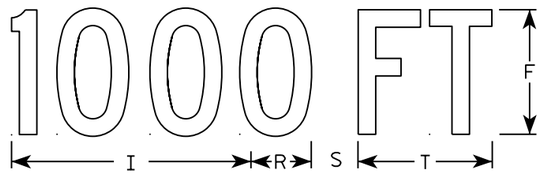
7



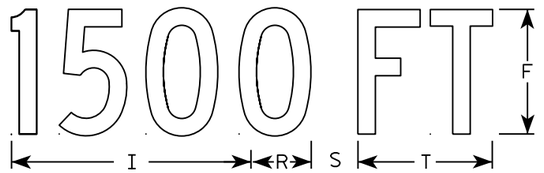
W20-1A



W20-1D

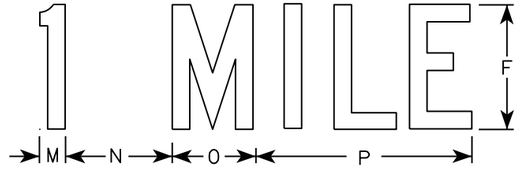


W20-1C

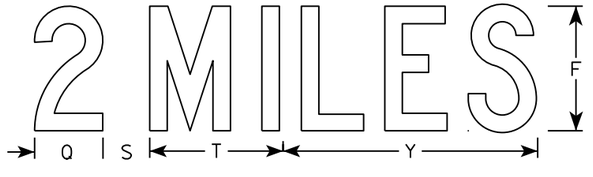


W20-1B

W20-1G



W20-1F



W20-1E

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 3/8	1/2	5/8	5	2 5/8	3 1/4	10 1/8	7	7 5/8	8 7/8	1 1/8	4 1/2	3 1/2	9		2 1/2	2 1/4	5 5/8	9	1 3/8	8	1 3/4	10 3/4	6	9.0
2S	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
2M	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
3	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
4	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
5	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0

STANDARD SIGN
W20-1A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

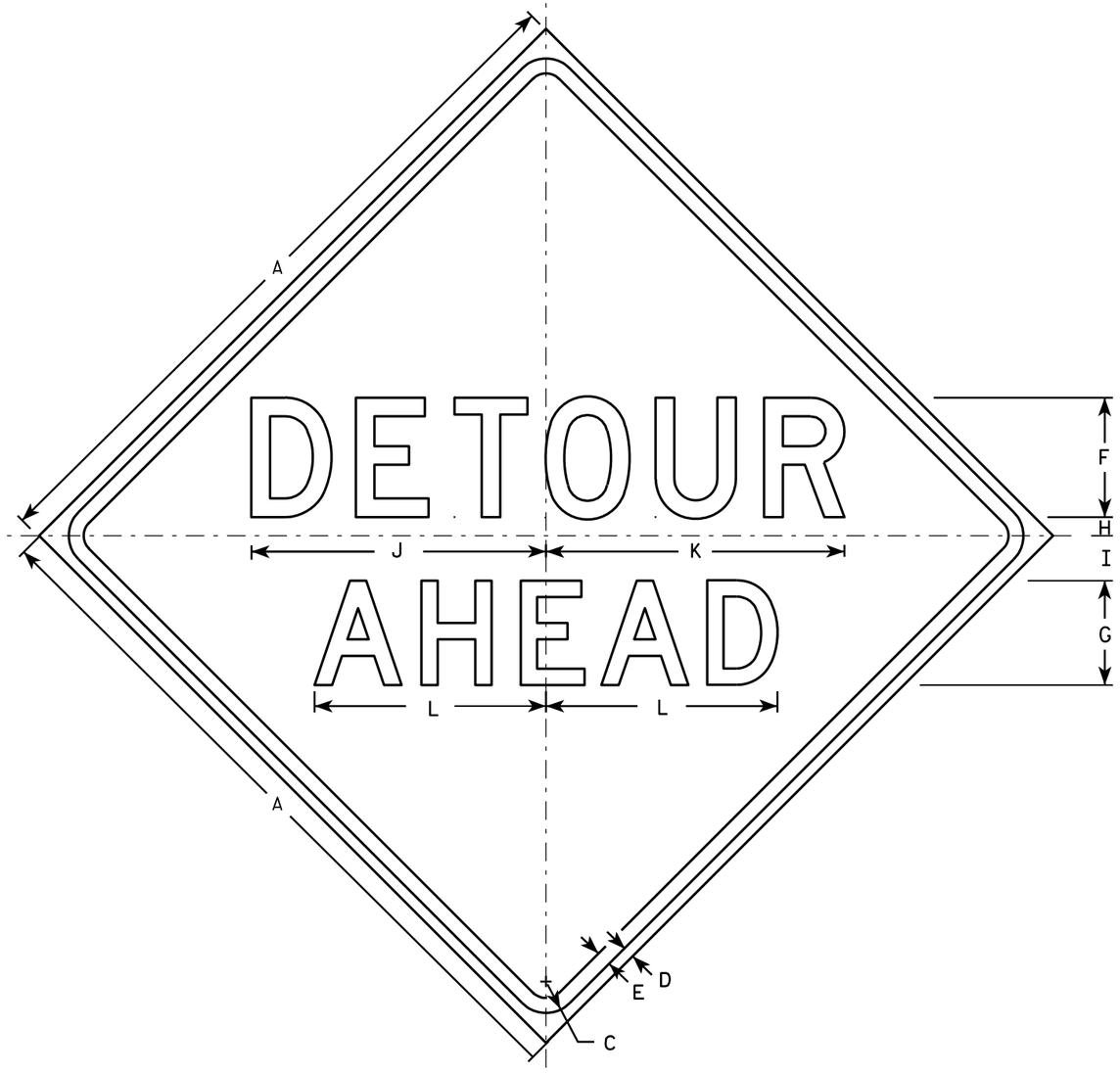
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/07/15 PLATE NO. W20-1.10

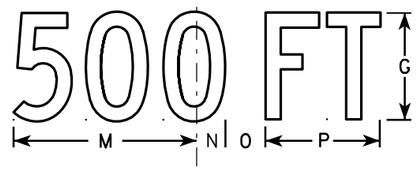
PROJECT NO:

SHEET NO: E

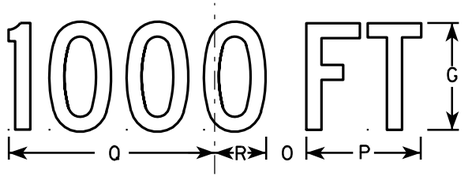
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W201.DGN PLOT DATE : 01-DEC-2015 18:24 PLOT BY : $$ plotuser $$



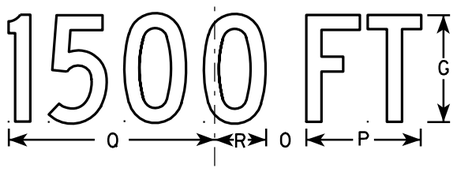
W20-2A



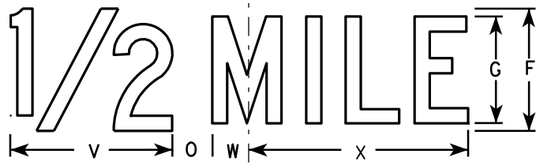
W20-2D



W20-2C



W20-2B



W20-2G

W20-2F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Line 1 is Series D.
   Line 2 is Series D for AHEAD and Series C for all other distances.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	6	5	1	2 1/4	14 3/4	15	11 5/8	9	1 3/8	1 7/8	5 5/8	10 1/8	2 1/2	1 1/8	4 1/2	3 1/2	8	1 3/4	10 3/4			9.0
2S	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
2M	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
3	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
4	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
5	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0

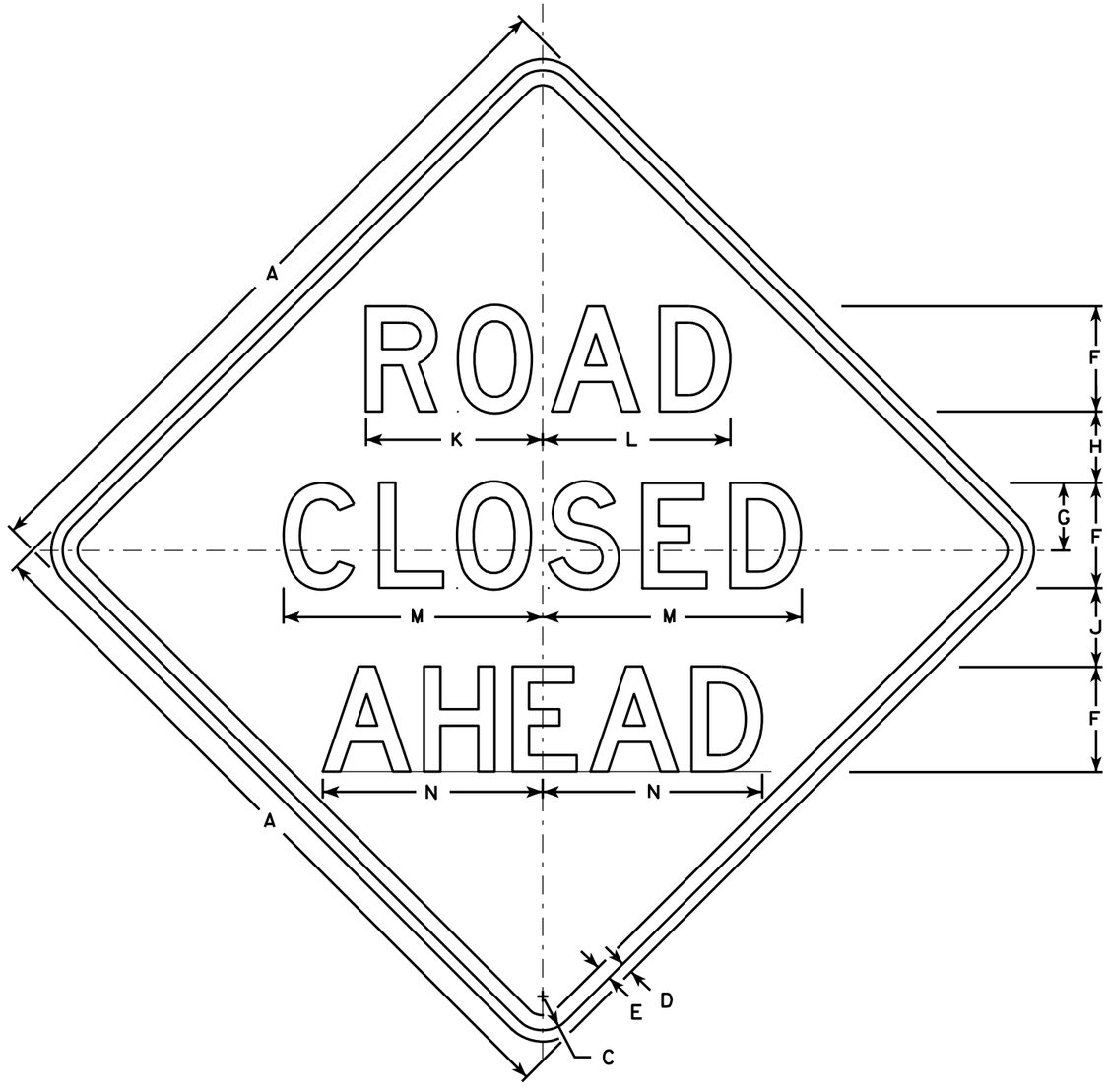
STANDARD SIGN
W20-2A,B,C,D,F & G

WISCONSIN DEPT OF TRANSPORTATION

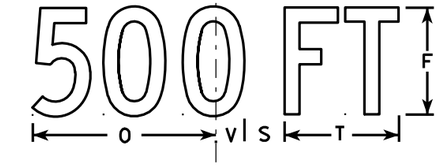
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-2.6

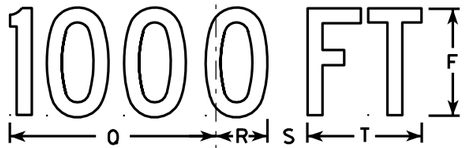
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 231	E



W20-3A

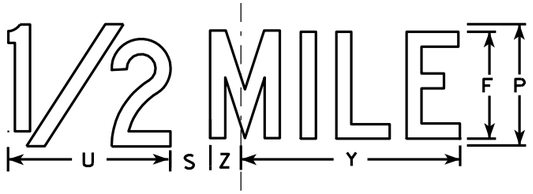


W20-3D

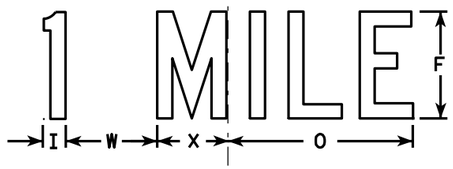


W20-3C

W20-3B



W20-3G



W20-3F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - see note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1 and 2 are Series D.
   Line 3 is Series D for AHEAD and Series C for all other distances.

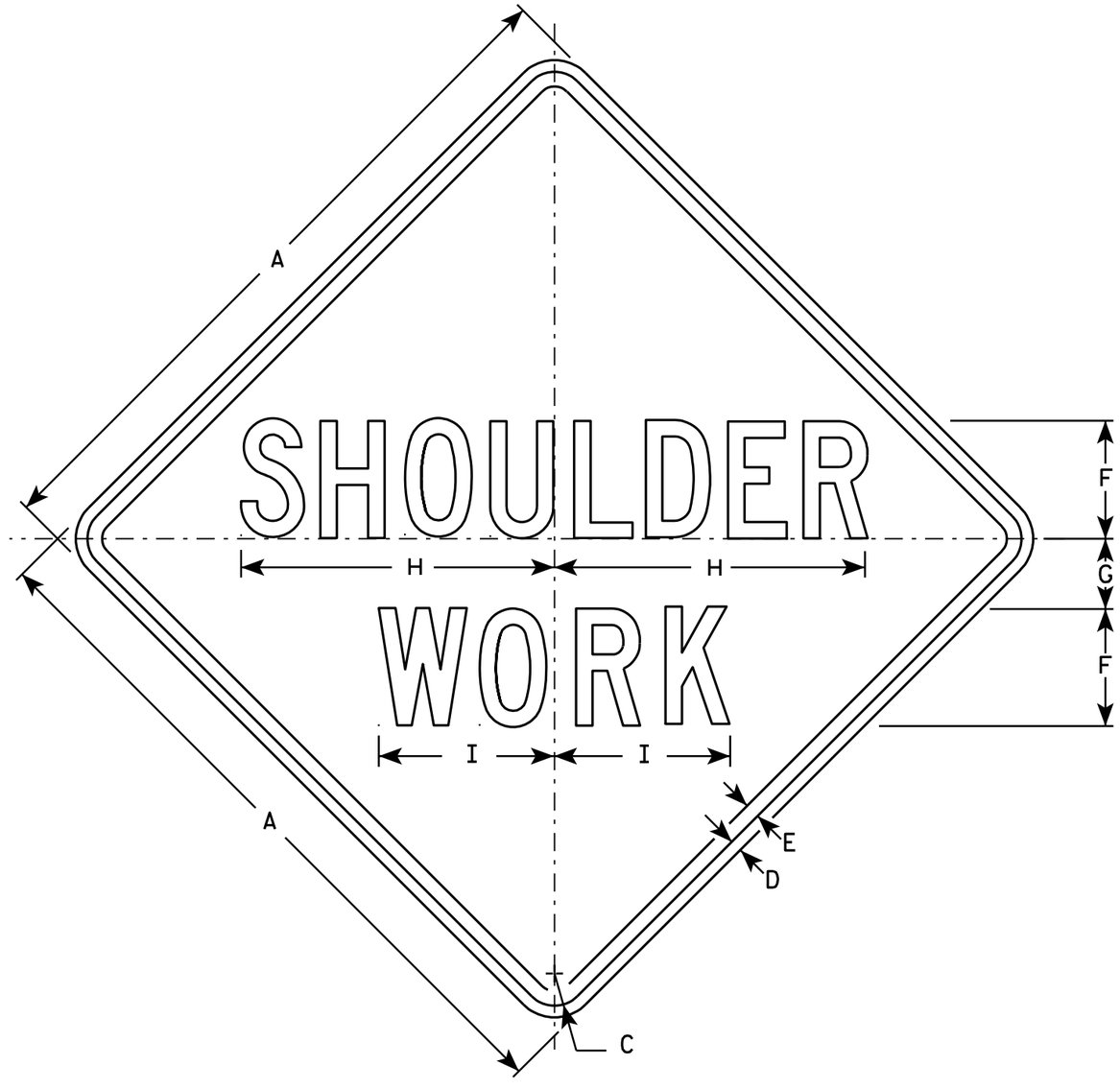
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5	3 3/8	3 1/2	1 1/8	4	8 3/8	8 7/8	12 1/2	11	9	6	10 1/8	2 1/2	1 7/8	5 5/8	8	1 3/8	4 1/2	3 1/2	10 3/4	1 3/4	9.0
2S	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
2M	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
3	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
4	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
5	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0

STANDARD SIGN
W20-3A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer
DATE 3/18/11 PLATE NO. W20-3.7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 232 | E



W21-5

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	4	2 1/2	10 3/4	6																		4.0
2S	30		1 3/8	1/2	5/8	5	3	13 3/8	7 1/2																		6.25
2M	30		1 3/8	1/2	5/8	5	3	13 3/8	7 1/2																		6.25
3	36		1 5/8	5/8	3/4	6	3 1/2	16	9																		9.0
4	48		2 1/4	3/4	1	8	5	21 3/8	11 1/4																		16.0
5	48		2 1/4	3/4	1	8	5	21 3/8	11 1/4																		16.0

STANDARD SIGN
W21-5

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/21/11 PLATE NO. W21-5.5

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 233 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W215.DGN PLOT DATE : 21-MAR-2011 08:01 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 6.207338:1.000000
WISDOT/CADDS SHEET 42

		EAST FRONTAGE ROAD												
		AREA (SF)				Incremental Vol (CY) (Unadjusted)				Cumulative Vol (CY) (Unadjusted)				Unadjusted
STATION	Distance	Cut	Salvaged/Unusable Pavement Material	Fill	EBS	Cut	Salvaged/Unusable Pavement Material	Fill	EBS	Cut 1.00	Salvaged/Unusable Pavement Material	Fill 1.00	EBS	Mass Ordinate
3730+00	50.00	179	12	41	0	166	11	137	0	166	11	137	0	18
3730+50	50.00	249	12	41	0	397	23	76	0	563	34	213	0	316
3731+00	50.00	292	12	37	0	501	23	72	0	1,064	57	285	0	722
3731+50	50.00	308	12	35	0	556	23	66	0	1,620	80	351	0	1,189
3732+00	50.00	280	12	33	0	544	23	63	0	2,165	103	414	0	1,648
3732+50	50.00	232	12	38	0	473	23	66	0	2,638	126	480	0	2,032
3733+00	50.00	186	12	43	0	387	23	75	0	3,025	149	555	0	2,321
3733+50	50.00	125	12	33	0	288	23	71	0	3,314	172	626	0	2,516
3734+00	50.00	82	12	19	0	192	23	48	0	3,505	195	674	0	2,637
3734+50	50.00	98	12	28	0	167	23	43	0	3,672	218	717	0	2,737
3735+00	50.00	71	12	57	0	157	23	79	0	3,829	241	796	0	2,793
3735+50	50.00	56	12	55	0	117	23	103	0	3,946	264	899	0	2,784
3736+00	50.00	50	12	42	0	98	23	90	0	4,044	286	988	0	2,769
3736+50	50.00	61	12	34	0	103	23	70	0	4,147	309	1,059	0	2,779
3737+00	50.00	49	12	38	0	102	23	67	0	4,249	332	1,125	0	2,791
3737+50	50.00	53	12	36	0	94	23	69	0	4,343	355	1,195	0	2,793
3738+00	50.00	36	12	37	0	82	23	68	0	4,425	378	1,263	0	2,784
3738+50	50.00	46	12	38	0	76	23	69	0	4,501	401	1,332	0	2,768
3739+00	50.00	70	12	36	0	107	23	68	0	4,608	424	1,401	0	2,783
3739+50	50.00	103	12	34	0	160	23	65	0	4,768	447	1,466	0	2,855
3740+00	50.00	128	12	30	0	214	23	60	0	4,981	470	1,526	0	2,986
3740+50	50.00	143	12	24	0	251	23	50	0	5,232	493	1,575	0	3,164
3741+00	50.00	154	12	6	0	275	23	28	0	5,508	516	1,603	0	3,389
3741+50	50.00	201	12	0	0	328	23	6	0	5,836	539	1,609	0	3,688
3742+00	50.00	252	12	0	0	419	23	0	0	6,255	561	1,609	0	4,085
3742+50	50.00	294	12	0	0	505	23	0	0	6,761	584	1,609	0	4,567
3743+00	50.00	293	12	0	0	544	23	0	0	7,304	607	1,609	0	5,088
3743+50	50.00	234	12	0	0	488	23	0	0	7,792	630	1,609	0	5,553
3744+00	50.00	151	12	0	0	356	23	0	0	8,148	653	1,610	0	5,886
3744+50	50.00	143	12	0	0	272	23	0	0	8,420	676	1,610	0	6,134
3745+00	50.00	101	12	4	0	225	23	4	0	8,645	699	1,614	0	6,333
3745+50	50.00	95	12	34	0	181	23	35	0	8,826	722	1,648	0	6,456
3746+00	50.00	98	12	49	0	178	23	77	0	9,004	745	1,725	0	6,534
3746+50	50.00	72	12	46	0	157	23	88	0	9,161	768	1,813	0	6,580
3747+00	50.00	54	12	37	0	117	23	77	0	9,278	791	1,891	0	6,597
3747+50	50.00	51	12	32	0	98	23	64	0	9,376	814	1,955	0	6,608
3748+00	50.00	70	12	22	0	112	23	50	0	9,488	836	2,005	0	6,647
3748+50	50.00	93	12	27	0	151	23	46	0	9,639	859	2,051	0	6,729
3749+00	50.00	107	12	44	0	185	23	66	0	9,825	882	2,117	0	6,826
3749+50	50.00	66	12	72	0	161	23	107	0	9,986	905	2,224	0	6,857
3750+00	50.00	36	12	95	0	95	23	155	0	10,080	928	2,379	0	6,773
3750+50	50.00	14	12	111	0	46	23	191	0	10,126	951	2,570	0	6,605
3751+00	50.00	17	12	82	0	29	23	178	0	10,155	974	2,748	0	6,433
3751+50	50.00	37	12	53	0	51	23	125	0	10,206	997	2,873	0	6,336
3752+00	50.00	75	12	33	0	104	23	80	0	10,310	1,020	2,953	0	6,337
3752+50	50.00	62	12	15	0	127	23	44	0	10,437	1,043	2,997	0	6,397
3753+00	50.00	46	12	4	0	99	23	18	0	10,536	1,066	3,015	0	6,455
3753+50	50.00	79	12	1	0	115	23	5	0	10,651	1,089	3,020	0	6,543
3754+00	50.00	115	12	0	0	180	23	1	0	10,831	1,111	3,021	0	6,698
3754+50	50.00	140	12	0	0	237	23	0	0	11,067	1,134	3,021	0	6,912
3755+00	50.00	202	12	0	0	317	23	0	0	11,384	1,157	3,021	0	7,206
3755+50	50.00	251	12	0	0	420	23	0	0	11,804	1,180	3,021	0	7,602
3756+00	50.00	176	12	2	0	395	23	2	0	12,199	1,203	3,023	0	7,973
3756+50	50.00	169	12	9	0	319	23	10	0	12,518	1,226	3,033	0	8,259
3757+00	50.00	162	12	7	0	306	23	15	0	12,824	1,249	3,047	0	8,528
3757+50	50.00	170	12	8	0	308	23	14	0	13,132	1,272	3,062	0	8,799
3758+00	50.00	176	12	6	0	321	23	13	0	13,453	1,295	3,074	0	9,084
3758+50	50.00	173	12	2	0	323	23	7	0	13,776	1,318	3,081	0	9,377
3759+00	50.00	196	12	0	0	342	23	2	0	14,118	1,341	3,083	0	9,695
3759+31	31.48	210	12	0	0	237	14	0	0	14,355	1,355	3,083	0	9,917

(CONTINUED ON NEXT SHEET)

(CONTINUED FROM PREVIOUS SHEET)

		EAST FRONTAGE ROAD												
		AREA (SF)				Incremental Vol (CY) (Unadjusted)				Cumulative Vol (CY) (Unadjusted)				Unadjusted
		Cut	Salvaged/Unusable	Fill		Cut	Salvaged/Unusable	Fill		Cut	Salvaged/Unusable	Fill		Mass
STATION	Distance		Pavement Material		EBS		Pavement Material		EBS	1.00	Pavement Material	1.00	EBS	Ordinate
5755+46	89.71	206	12	0	0	692	41	0	0	15,047	1,396	3,083	0	10,568
5755+50	3.84	248	12	0	0	32	2	0	0	15,079	1,398	3,083	0	10,598
5756+00	50.00	112	12	1	153	333	23	1	141	15,412	1,421	3,083	141	10,908
5756+50	50.00	153	12	0	125	245	23	1	257	15,658	1,444	3,084	398	11,130
5757+00	50.00	140	12	0	0	271	23	0	115	15,929	1,467	3,084	513	11,378
5757+50	50.00	98	12	0	0	220	23	0	0	16,149	1,490	3,084	513	11,575
5758+00	50.00	102	12	9	0	185	23	9	0	16,335	1,513	3,093	513	11,729
5758+50	50.00	133	12	8	0	218	23	16	0	16,553	1,535	3,109	513	11,909
5759+00	50.00	154	12	9	0	266	23	16	0	16,819	1,558	3,124	513	12,136
5759+50	50.00	85	12	12	0	221	23	19	0	17,040	1,581	3,143	513	12,316
5760+00	50.00	55	12	18	0	129	23	28	0	17,170	1,604	3,171	513	12,394
5760+50	50.00	21	12	29	0	70	23	44	0	17,239	1,627	3,215	513	12,397
5761+00	50.00	16	12	30	0	34	23	55	0	17,273	1,650	3,269	513	12,354
5761+50	50.00	38	12	22	0	50	23	48	0	17,324	1,673	3,317	513	12,334
5762+00	50.00	148	12	1	0	172	23	21	0	17,496	1,696	3,338	513	12,462
5762+50	50.00	56	0	47	0	189	11	44	0	17,685	1,707	3,382	513	12,595
5763+00	50.00	29	0	42	0	79	0	82	0	17,764	1,707	3,465	513	12,592
5763+50	50.00	0	0	41	0	27	0	77	0	17,791	1,707	3,542	513	12,542
5764+00	50.00	0	0	46	0	0	0	81	0	17,791	1,707	3,623	513	12,461
5764+50	50.00	0	0	45	0	0	0	84	0	17,791	1,707	3,707	513	12,376
5765+00	50.00	0	0	34	0	0	0	74	0	17,791	1,707	3,781	513	12,303
5765+50	50.00	0	0	42	0	0	0	71	0	17,791	1,707	3,852	513	12,231
5766+00	50.00	0	0	29	0	0	0	67	0	17,791	1,707	3,919	513	12,165
5766+50	50.00	2	0	43	0	1	0	67	0	17,792	1,707	3,986	513	12,099
5767+00	50.00	1	0	31	0	2	0	69	0	17,794	1,707	4,056	513	12,032
5767+50	50.00	2	0	36	0	3	0	62	0	17,797	1,707	4,118	513	11,972
5768+00	50.00	0	0	31	0	2	0	62	0	17,799	1,707	4,180	513	11,912
5768+50	50.00	0	0	29	0	0	0	56	0	17,799	1,707	4,236	513	11,856
5769+00	50.00	0	0	35	0	0	0	60	0	17,799	1,707	4,295	513	11,797
5769+50	50.00	0	0	28	0	0	0	59	0	17,799	1,707	4,354	513	11,738
5770+00	50.00	0	0	27	0	0	0	51	0	17,799	1,707	4,405	513	11,687
5770+50	50.00	0	0	30	0	0	0	53	0	17,799	1,707	4,458	513	11,634
5771+00	50.00	0	0	38	0	0	0	64	0	17,799	1,707	4,522	513	11,570
5771+50	50.00	0	0	35	0	0	0	68	0	17,799	1,707	4,590	513	11,502
5772+00	50.00	0	0	37	0	0	0	67	0	17,799	1,707	4,657	513	11,435
5772+50	50.00	0	0	33	0	0	0	65	0	17,799	1,707	4,722	513	11,370
5773+00	50.00	0	0	36	0	0	0	64	0	17,799	1,707	4,786	513	11,306
5773+50	50.00	0	0	30	0	0	0	61	0	17,799	1,707	4,846	513	11,246
5774+00	50.00	0	0	31	0	0	0	56	0	17,799	1,707	4,903	513	11,190
5774+50	50.00	0	0	30	0	0	0	56	0	17,799	1,707	4,959	513	11,133
5775+00	50.00	0	0	29	0	0	0	54	0	17,799	1,707	5,013	513	11,079
5775+50	50.00	0	0	27	0	0	0	52	0	17,799	1,707	5,065	513	11,027
5776+00	50.00	0	0	21	0	0	0	45	0	17,799	1,707	5,110	513	10,982
5776+50	50.00	0	0	16	0	0	0	35	0	17,799	1,707	5,145	513	10,947
5777+00	50.00	0	0	38	0	0	0	51	0	17,799	1,707	5,196	513	10,896
5777+50	50.00	0	0	64	0	0	0	94	0	17,799	1,707	5,290	513	10,802
5778+00	50.00	0	0	30	0	0	0	86	0	17,799	1,707	5,376	513	10,716
5778+50	50.00	0	0	22	0	0	0	48	0	17,799	1,707	5,424	513	10,668
5779+00	50.00	4	0	56	0	4	0	73	0	17,803	1,707	5,497	513	10,599
5779+50	50.00	51	0	104	0	51	0	148	0	17,855	1,707	5,645	513	10,503

NOTE: EARTHWORK FROM STA 5763+00 TO STA 5779+00 COMPLETED BY OTHERS UNDER PROJECT ID 1030-24-76, FRONTAGE ROAD GRADING

(CONTINUED ON NEXT SHEET)

(CONTINUED FROM PREVIOUS SHEET)

		EAST FRONTAGE ROAD												
		AREA (SF)				Incremental Vol (CY) (Unadjusted)				Cumulative Vol (CY) (Unadjusted)				Unadjusted
		Cut	Salvaged/Unusable	Fill		Cut	Salvaged/Unusable	Fill		Cut	Salvaged/Unusable	Fill		Mass
STATION	Distance		Pavement Material		EBS		Pavement Material		EBS	1.00	Pavement Material	1.00	EBS	Ordinate
5780+00	50.00	24	0	210	0	69	0	291	0	17,924	1,707	5,936	513	10,281
5780+50	50.00	14	0	309	0	35	0	481	0	17,960	1,707	6,417	513	9,835
5781+00	50.00	5	0	486	0	18	0	736	0	17,977	1,707	7,153	513	9,117
5781+50	50.00	25	22	613	0	28	20	1,017	0	18,005	1,728	8,170	513	8,107
5782+00	50.00	159	22	604	0	170	41	1,127	0	18,175	1,768	9,297	513	7,110
5782+50	50.00	60	22	592	0	203	41	1,108	0	18,378	1,809	10,404	513	6,165
5783+00	50.00	38	22	526	0	91	41	1,036	0	18,469	1,850	11,440	513	5,179
5783+50	50.00	21	22	456	0	55	41	909	0	18,524	1,891	12,349	513	4,284
5784+00	50.00	16	22	353	0	35	41	749	0	18,559	1,931	13,099	513	3,529
5784+50	50.00	5	22	264	0	19	41	571	0	18,578	1,972	13,670	513	2,936
5785+00	50.00	9	22	213	0	13	41	442	0	18,591	2,013	14,112	513	2,466
5785+50	50.00	12	22	164	0	20	41	349	0	18,610	2,054	14,461	513	2,096
5786+00	50.00	10	22	133	0	20	41	275	0	18,631	2,094	14,736	513	1,800
5786+50	50.00	17	22	122	0	25	41	236	0	18,655	2,135	14,973	513	1,548
5787+00	50.00	39	22	85	0	52	41	192	0	18,707	2,176	15,164	513	1,367
5787+50	50.00	82	22	40	0	111	41	116	0	18,818	2,217	15,280	513	1,322
5788+00	50.00	147	22	2	0	212	41	39	0	19,030	2,257	15,319	513	1,454
5788+50	50.00	171	22	1	0	294	41	2	0	19,324	2,298	15,321	513	1,705
5789+00	50.00	122	22	0	0	271	41	1	0	19,595	2,339	15,322	513	1,934
5789+50	50.00	135	22	6	0	238	41	5	0	19,833	2,380	15,327	513	2,126
5790+00	50.00	162	22	4	0	275	41	9	0	20,108	2,420	15,336	513	2,352
5790+50	50.00	171	22	4	0	309	41	7	0	20,417	2,461	15,343	513	2,613
5791+00	50.00	180	22	3	0	325	41	7	0	20,742	2,502	15,349	513	2,891
EAST FRONTAGE ROAD TOTAL						20,742	2,502	15,349	513	20,742	2,502	15,349	513	2,891

		PRIVATE DRIVEWAY A												
		AREA (SF)				Incremental Vol (CY) (Unadjusted)				Cumulative Vol (CY) (Unadjusted)				Unadjusted
		Cut	Salvaged/Unusable	Fill		Cut	Salvaged/Unusable	Fill		Cut	Salvaged/Unusable	Fill		Mass
STATION	Distance		Pavement Material		Existing Pavement EBS		Pavement Material		Existing Pavement EBS	1.00	Pavement Material	1.00	Existing Pavement EBS	Ordinate
15+02	0.00	19	0	0	0	0	0	0	0	0	0	0	0	0
15+50	48.00	22	0	0	0	36	0	0	0	36	0	0	0	36
16+00	50.00	12	0	0	0	32	0	0	0	68	0	0	0	68
16+50	50.00	10	0	4	0	20	0	4	0	88	0	4	0	84
17+00	50.00	7	0	10	0	15	0	14	0	104	0	18	0	86
17+50	50.00	124	0	0	0	121	0	10	0	224	0	27	0	197
18+00	50.00	27	0	2	0	139	0	2	0	363	0	29	0	334
18+50	50.00	8	0	0	0	32	0	2	0	396	0	31	0	365
19+00	50.00	8	0	0	0	14	0	0	0	410	0	31	0	379
19+50	50.00	3	0	1	0	10	0	1	0	420	0	32	0	388
19+80	50.00	0	0	67	0	3	0	62	0	423	0	94	0	329
PRIVATE DRIVEWAY A TOTAL						423	0	94	0	423	0	94	0	329

		58TH ROAD												
		AREA (SF)				Incremental Vol (CY) (Unadjusted)				Cumulative Vol (CY) (Unadjusted)				Unadjusted
STATION	Distance	Cut	Salvaged/Unusable Pavement Material	Fill	Existing Pavement EBS	Cut	Salvaged/Unusable Pavement Material	Fill	Existing Pavement EBS	Cut 1.00	Salvaged/Unusable Pavement Material	Fill 1.00	Existing Pavement EBS	Mass Ordinate
57+72	0.00	42	9	18	0	0	0	0	0	0	0	0	0	0
58+00	28.00	96	9	0	0	72	9	9	0	72	9	9	0	54
58+47	47.00	114	9	0	0	183	15	0	0	255	24	9	0	222
58+50	3.00	44	9	0	0	9	1	0	0	264	25	9	0	230
58+78	28.00	61	9	0	0	54	9	0	0	318	34	9	0	275
60+12	134.00	47	9	0	0	266	43	0	0	585	77	9	0	498
60+42	30.00	71	9	0	0	65	10	0	0	650	87	9	0	554
60+50	8.00	67	9	0	0	20	3	0	0	671	90	9	0	572
61+00	50.00	66	9	0	0	123	16	0	0	793	106	9	0	678
61+50	50.00	50	9	0	0	107	16	0	0	901	122	9	0	769
62+00	50.00	36	9	0	0	80	16	0	0	980	138	9	0	833
58TH ROAD TOTAL						**980**	**138**	**9**	**0**	**980**	**138**	**9**	**0**	**833**

		LOUIS SORENSON ROAD												
		AREA (SF)				Incremental Vol (CY) (Unadjusted)				Cumulative Vol (CY) (Unadjusted)				Unadjusted
STATION	DIstance	Cut	Salvaged/Unusable Pavement Materlal	Fill	Existing Pavement EBS	Cut	Salvaged/Unusable Pavement Materlal	Fill	Existing Pavement EBS	Cut 1.00	Salvaged/Unusable Pavement Materlal	Fill 1.00	Existing Pavement EBS	Mass Ordlnate
52+10	0.00	0	8	0	0	0	0	0	0	0	0	0	0	0
52+18	8.00	65.78	8	2	0	10	2	0	0	10	2	0	0	7
52+50	32.00	33.91	8	14	0	59	10	9	0	69	12	10	0	47
53+00	50.00	15.98	8	25	0	46	15	36	0	115	28	45	0	42
53+50	50.00	12.22	8	38	0	26	15	58	0	141	43	103	0	-5
54+00	50.00	15.84	8	38	0	26	15	70	0	167	58	174	0	-65
54+50	50.00	13.54	8	30	0	27	15	63	0	194	74	237	0	-117
55+00	50.00	18.93	8	19	0	30	15	46	0	224	89	283	0	-148
55+50	50.00	33.54	8	17	0	49	15	34	0	273	105	317	0	-149
56+00	50.00	58.32	8	15	0	85	15	30	0	358	120	347	0	-109
56+50	50.00	82.97	8	4	0	131	15	17	0	489	135	364	0	-10
57+00	50.00	82.34	8	0	0	153	15	4	0	642	151	368	0	123
57+50	50.00	64.28	8	0	0	136	15	1	0	778	166	368	0	243
58+00	50.00	41.82	8	2	0	98	15	2	0	876	182	370	0	324
58+15	15.00	36.28	8	0	0	22	5	1	0	898	186	371	0	340
58+50	35.00	3.24	0	0	0	26	5	0	0	923	192	371	0	360
59+00	50.00	9.43	0	0	0	12	0	0	0	935	192	371	0	372
59+22	22.00	0.35	0	0	0	4	0	0	0	939	192	371	0	376
LOUIS SORENSON ROAD TOTAL						**939**	**192**	**371**	**0**	**939**	**192**	**371**	**0**	**360**

9

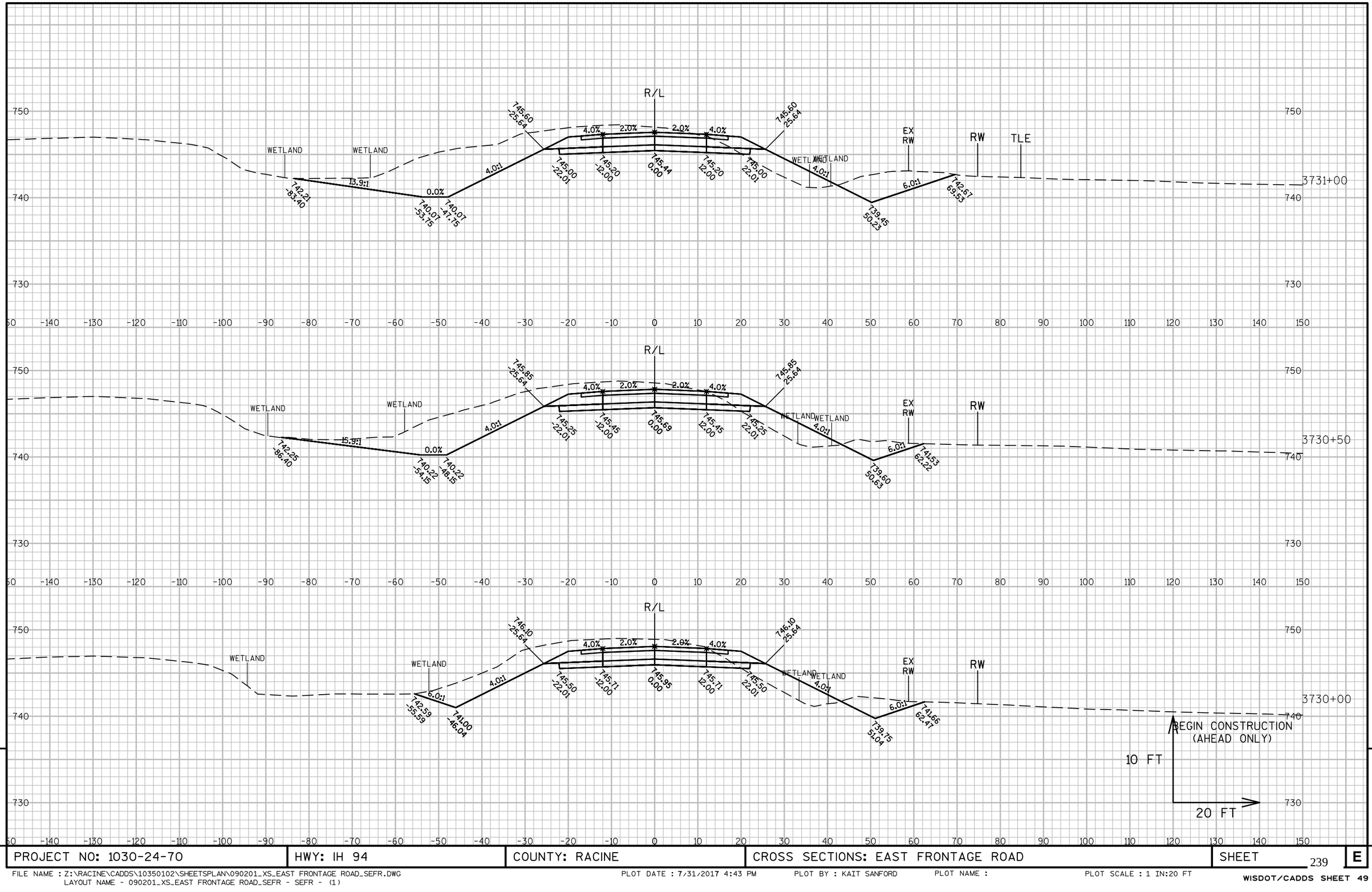
9

PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	EARTHWORK: 58TH ROAD / LOUIS SORENSON ROAD	SHEET 237	E

FILE NAME : Z:\Racine\CADDS\13\13E\CDS\090101_ew.dgn PLOT DATE : 7/31/2017 PLOT BY : bjw PLOT NAME : PLOT SCALE : 1:200

		SWALE 3												
		AREA (SF)				Incremental Vol (CY) (Unadjusted)				Cumulative Vol (CY) (Unadjusted)				Unadjusted
STATION	Distance	Cut	Salvaged/Unusable Pavement Material	Fill	Existing Pavement EBS	Cut	Salvaged/Unusable Pavement Material	Fill	Existing Pavement EBS	Cut 1.00	Salvaged/Unusable Pavement Material	Fill 1.00	Existing Pavement EBS	Mass Ordinate
299+50	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0
300+00	50.00	9	0	0	0	9	0	0	0	9	0	0	0	9
300+50	50.00	8	0	0	0	16	0	0	0	24	0	0	0	24
301+00	50.00	8	0	0	0	14	0	0	0	39	0	0	0	39
301+42	42.00	6	0	0	0	10	0	0	0	49	0	0	0	49
SWALE 3 TOTAL						**49**	**0**	**0**	**0**	**49**	**0**	**0**	**0**	**49**

		PRIVATE DRIVEWAY B												
		AREA (SF)				Incremental Vol (CY) (Unadjusted)				Cumulative Vol (CY) (Unadjusted)				Unadjusted
STATION	Distance	Cut	Salvaged/Unusable Pavement Material	Fill	Existing Pavement EBS	Cut	Salvaged/Unusable Pavement Material	Fill	Existing Pavement EBS	Cut 1.00	Salvaged/Unusable Pavement Material	Fill 1.00	Existing Pavement EBS	Mass Ordinate
30+20	0.00	0	0	72	0	0	0	0	0	0	0	0	0	0
30+30	10.00	0	0	94	0	0	0	31	0	0	0	31	0	-31
30+40	10.00	0	0	152	0	0	0	45	0	0	0	76	0	-76
30+50	10.00	0	0	153	0	0	0	56	0	0	0	133	0	-133
30+60	10.00	0	0	134	0	0	0	53	0	0	0	186	0	-186
30+70	10.00	0	0	114	0	0	0	46	0	0	0	232	0	-231
30+80	10.00	0	0	90	0	0	0	38	0	0	0	269	0	-269
30+90	10.00	2	0	72	0	0	0	30	0	0	0	299	0	-299
31+00	10.00	6	0	53	0	1	0	23	0	2	0	322	0	-320
31+10	10.00	14	0	40	0	4	0	17	0	6	0	340	0	-334
31+20	10.00	5	0	29	0	4	0	13	0	9	0	352	0	-343
31+30	10.00	0	0	15	0	1	0	8	0	10	0	361	0	-350
31+40	10.00	12	0	3	0	2	0	3	0	12	0	364	0	-352
31+47	7.00	30	0	1	0	5	0	1	0	18	0	364	0	-347
PRIVATE DRIVEWAY B TOTAL						**18**	**0**	**364**	**0**	**18**	**0**	**364**	**0**	**-347**



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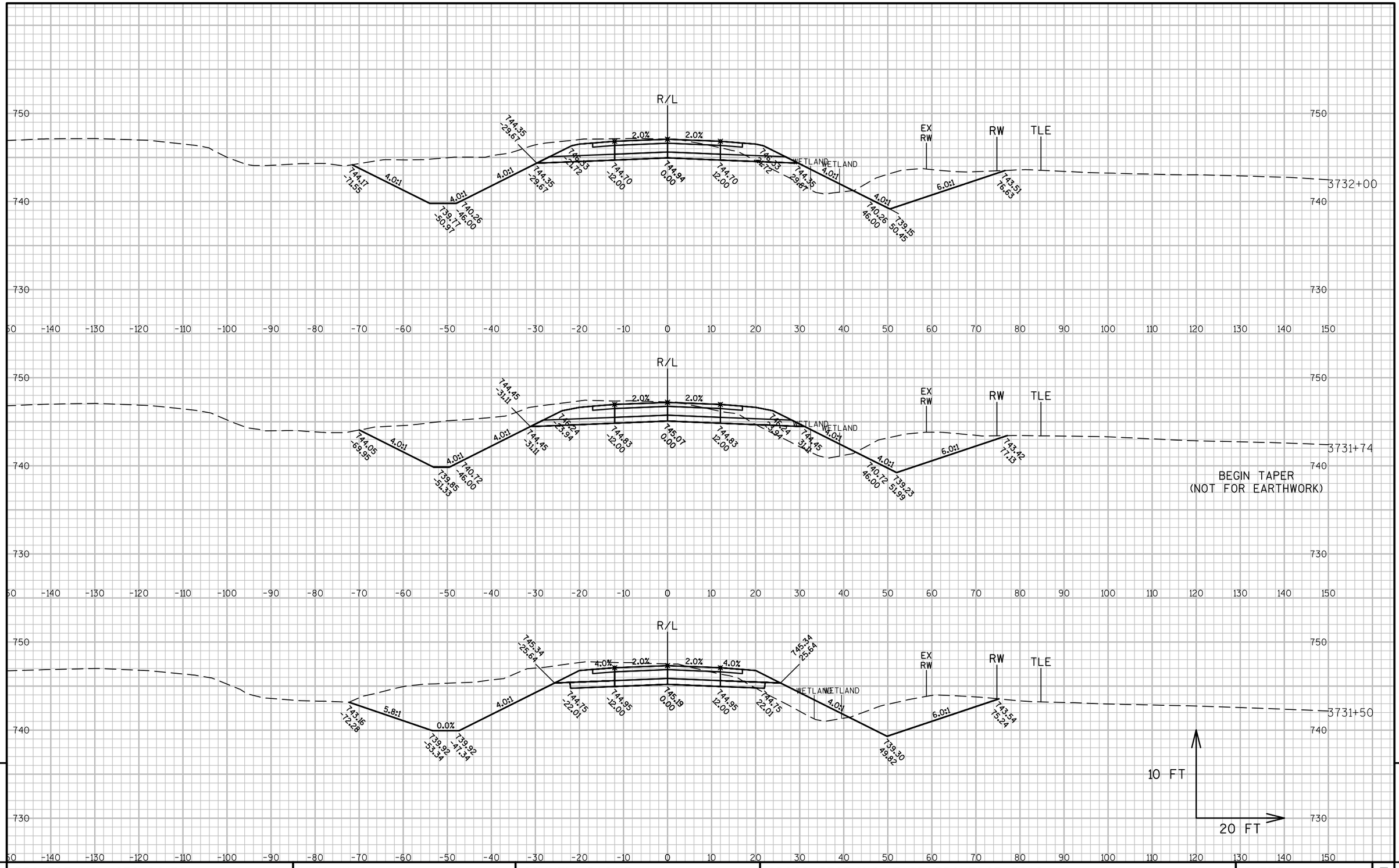
9

PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 239	E



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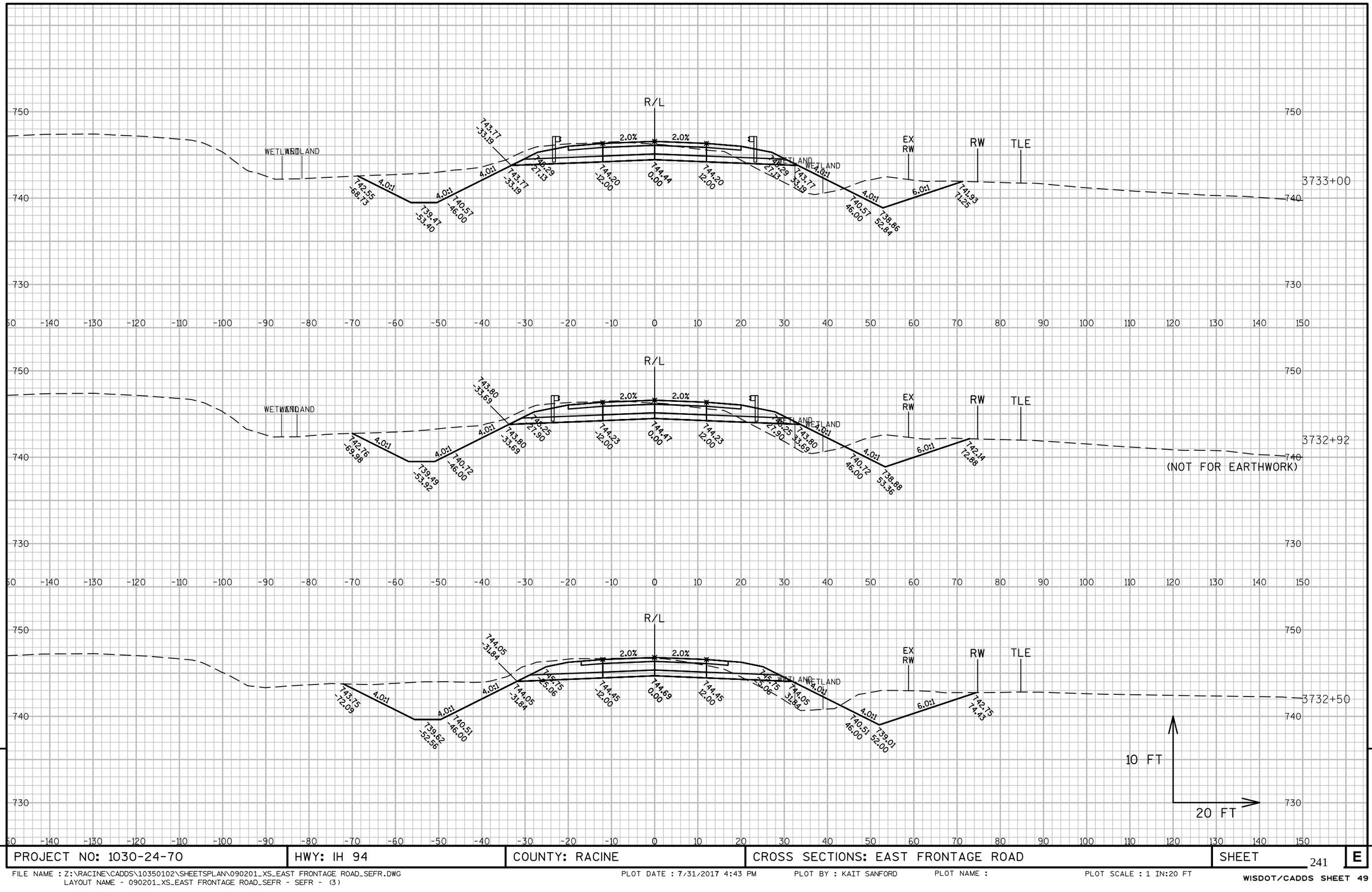
9

PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 240	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201_XS_EAST FRONTAGE ROAD_SEFR.DWG
LAYOUT NAME - 090201_XS_EAST FRONTAGE ROAD_SEFR - SEFR - (2)

PLOT DATE : 7/31/2017 4:43 PM PLOT BY : KAIT SANFORD PLOT NAME : PLOT SCALE : 1 IN:20 FT



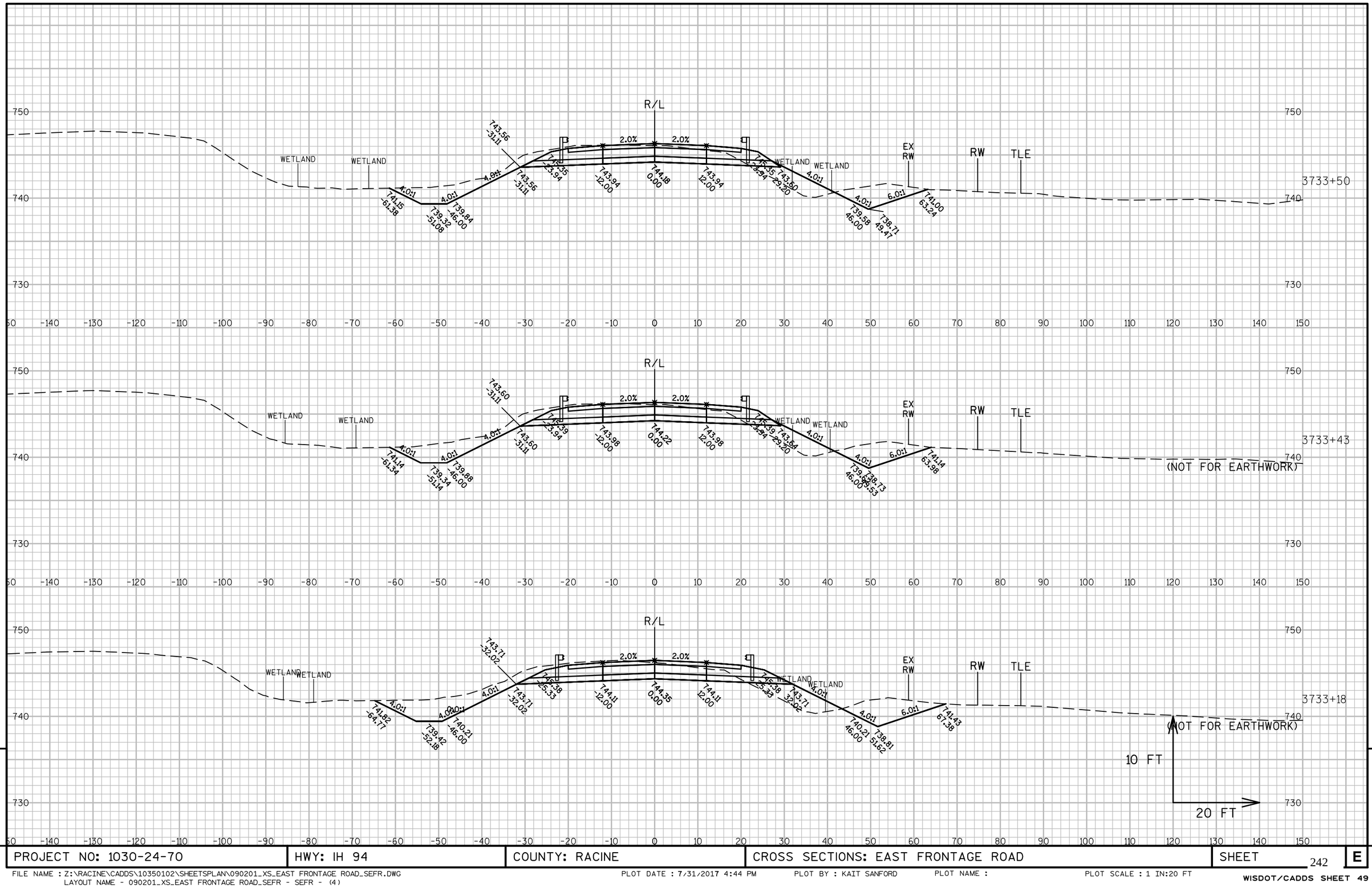
9 9

PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 241	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201_XS_EAST FRONTAGE ROAD_SEFR.DWG
LAYOUT NAME - 090201_XS_EAST FRONTAGE ROAD_SEFR - SEFR - (3)

PLOT DATE : 7/31/2017 4:43 PM PLOT BY : KAIT SANFORD PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 242	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201_XS_EAST FRONTAGE ROAD_SEFR.DWG
LAYOUT NAME - 090201_XS_EAST FRONTAGE ROAD_SEFR - SEFR - (4)

PLOT DATE : 7/31/2017 4:44 PM PLOT BY : KAIT SANFORD PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

9

9

PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 243	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201_XS_EAST FRONTAGE ROAD_SEFR.DWG
LAYOUT NAME - 090201_XS_EAST FRONTAGE ROAD_SEFR - SEFR - (5)

PLOT DATE : 7/31/2017 4:44 PM PLOT BY : KAIT SANFORD PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 244	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201_XS_EAST FRONTAGE ROAD_SEFR.DWG
LAYOUT NAME - 090201_XS_EAST FRONTAGE ROAD_SEFR - SEFR - (6)

PLOT DATE : 7/31/2017 4:44 PM PLOT BY : KAIT SANFORD PLOT NAME : PLOT SCALE : 1 IN:20 FT

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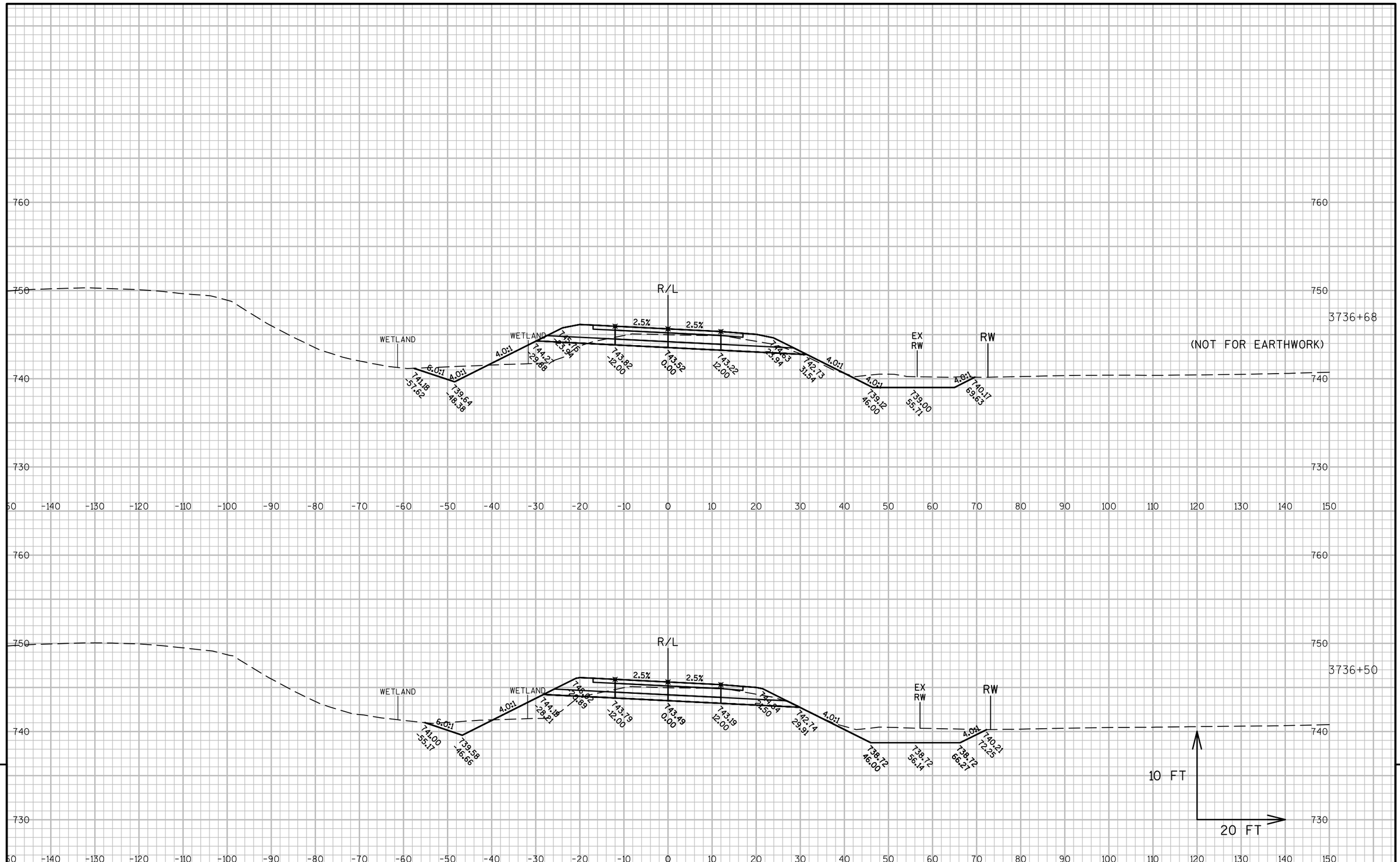
9

PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 245	E



9

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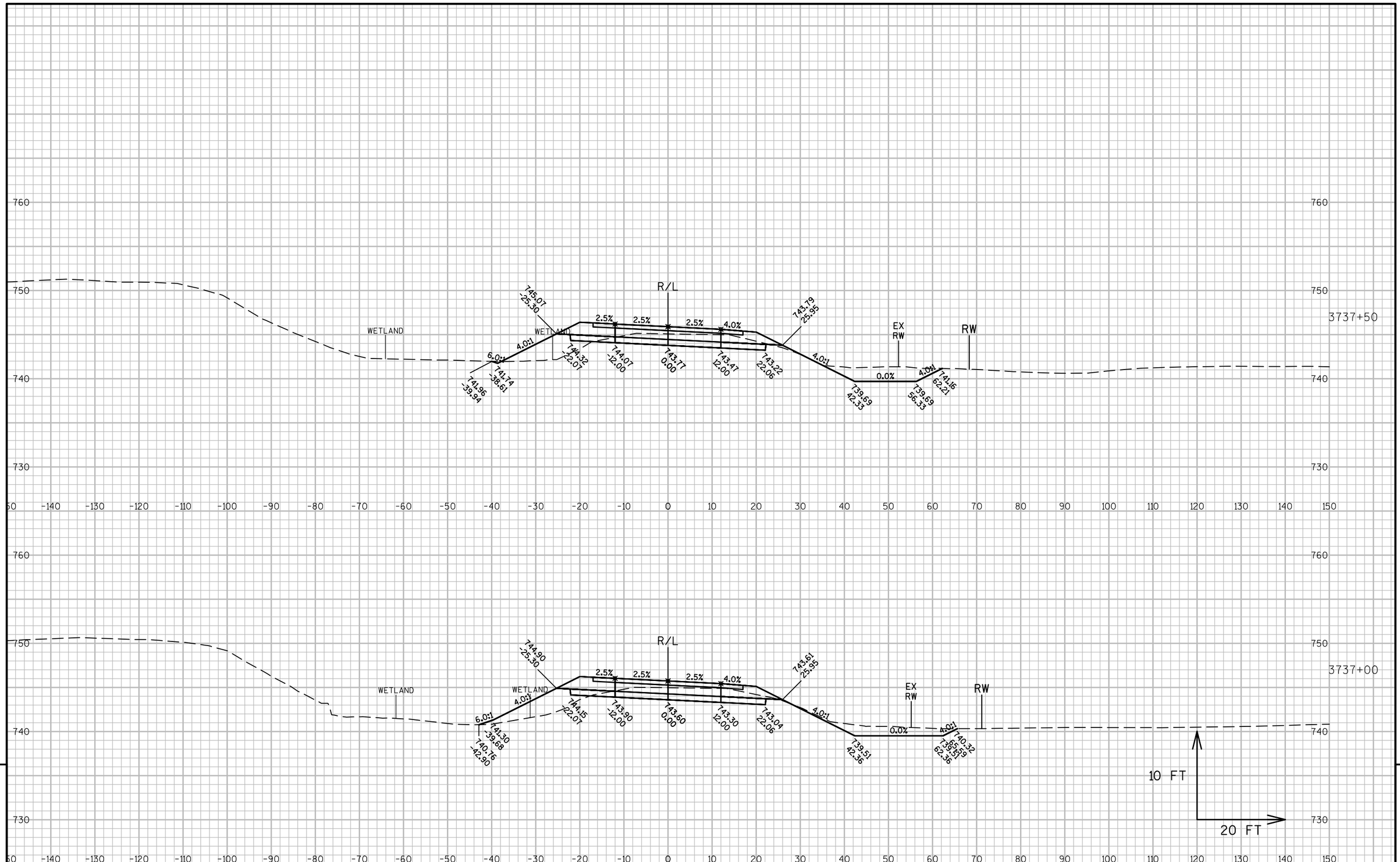
PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 246	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201_XS_EAST FRONTAGE ROAD_SEFR.DWG
LAYOUT NAME - 090201_XS_EAST FRONTAGE ROAD_SEFR - SEFR - (8)

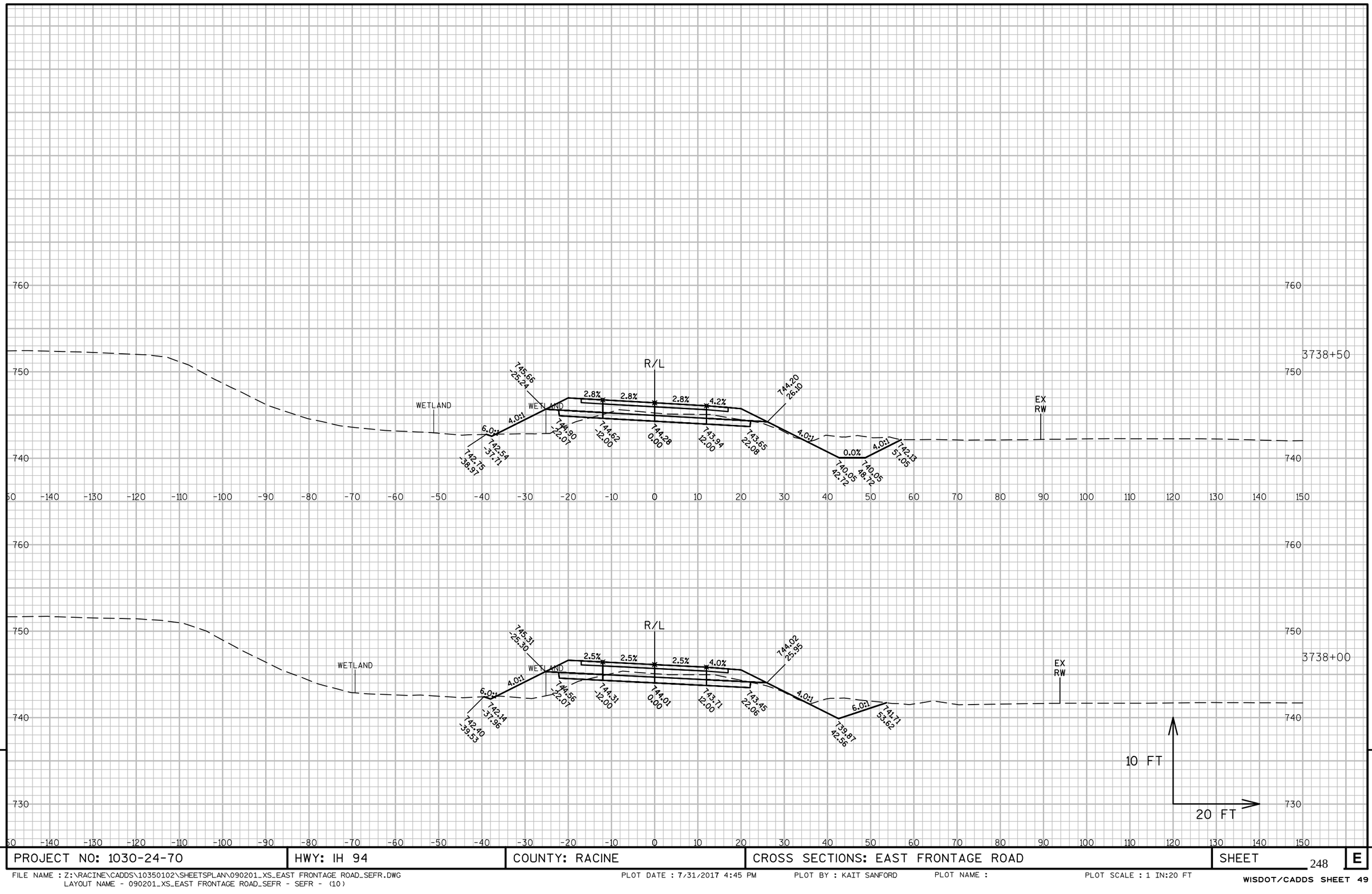
PLOT DATE : 7/31/2017 4:45 PM PLOT BY : KAIT SANFORD PLOT NAME : PLOT SCALE : 1 IN:20 FT



PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 247 E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201_XS_EAST FRONTAGE ROAD_SEFR.DWG
LAYOUT NAME - 090201_XS_EAST FRONTAGE ROAD_SEFR - SEFR - (9)

PLOT DATE : 7/31/2017 4:45 PM PLOT BY : KAIT SANFORD PLOT NAME : PLOT SCALE : 1 IN:20 FT



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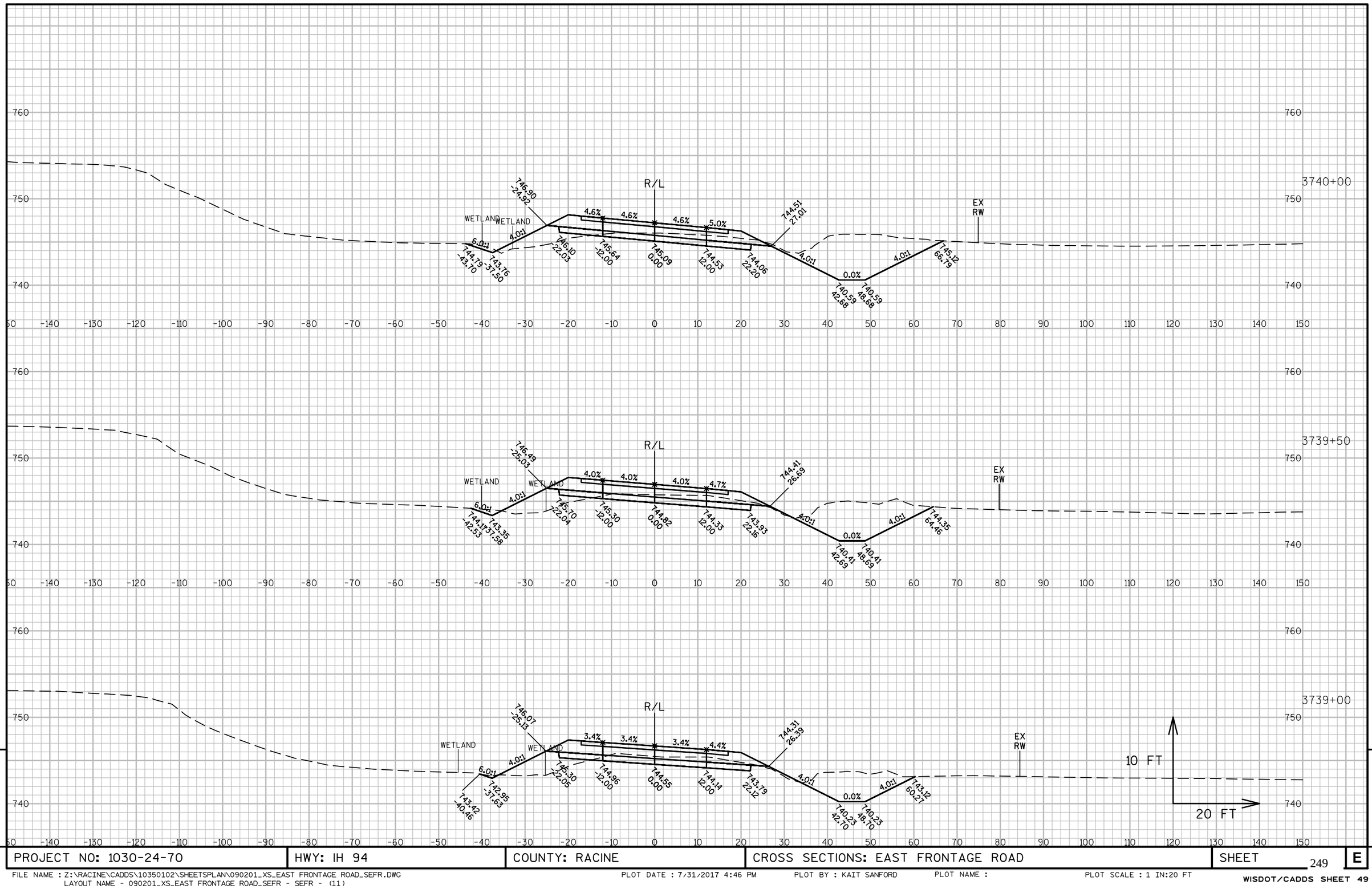
PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 248	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201_XS_EAST FRONTAGE ROAD_SEFR.DWG
LAYOUT NAME - 090201_XS_EAST FRONTAGE ROAD_SEFR - SEFR - (10)

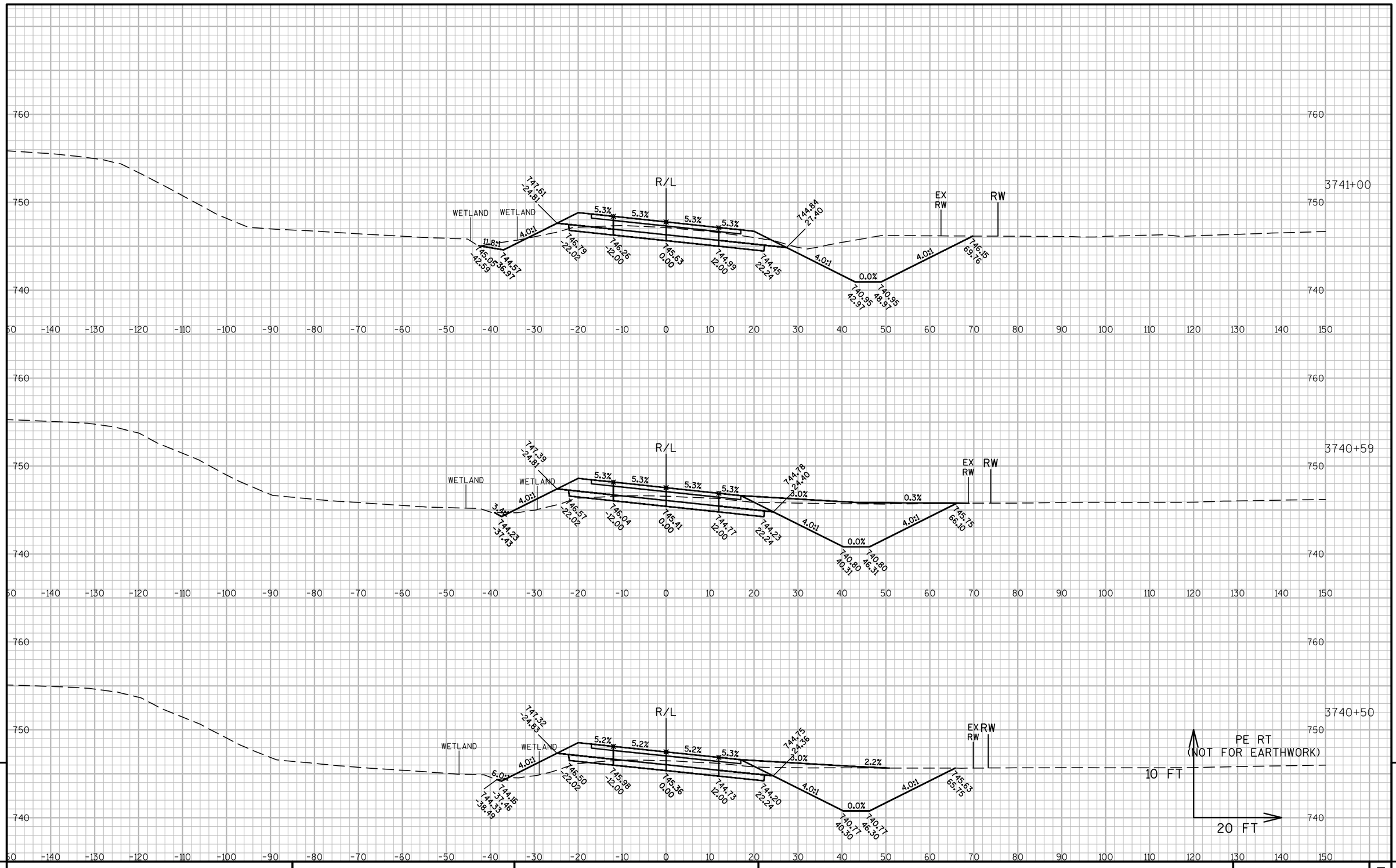
PLOT DATE : 7/31/2017 4:45 PM PLOT BY : KAIT SANFORD PLOT NAME : PLOT SCALE : 1 IN:20 FT



PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 249	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201_XS_EAST FRONTAGE ROAD_SEFR.DWG
LAYOUT NAME - 090201_XS_EAST FRONTAGE ROAD_SEFR - SEFR - (11)

PLOT DATE : 7/31/2017 4:46 PM PLOT BY : KAIT SANFORD PLOT NAME : PLOT SCALE : 1 IN:20 FT



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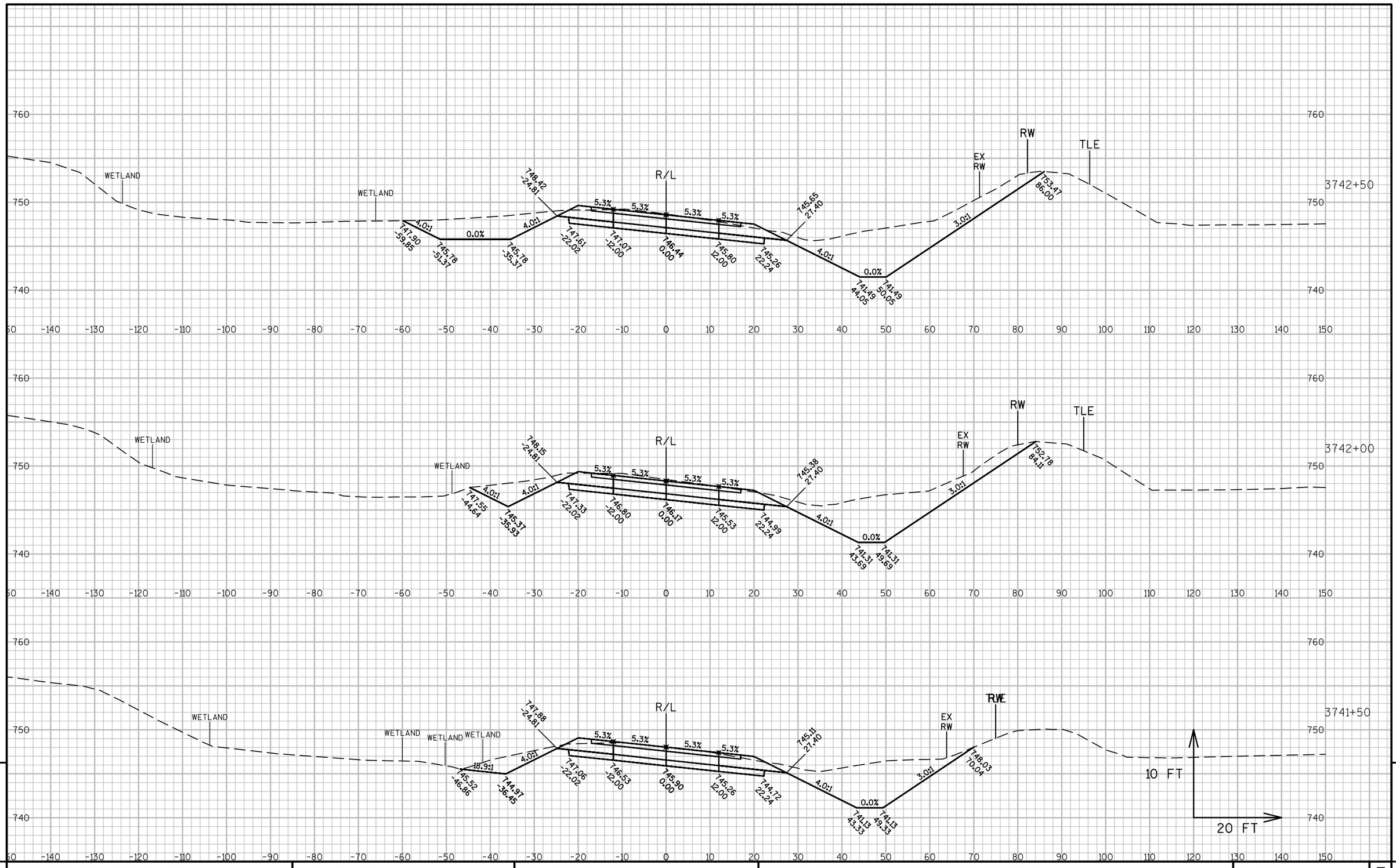
PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 250	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201_XS_EAST FRONTAGE ROAD_SEFR.DWG
LAYOUT NAME - 090201_XS_EAST FRONTAGE ROAD_SEFR - SEFR - (12)

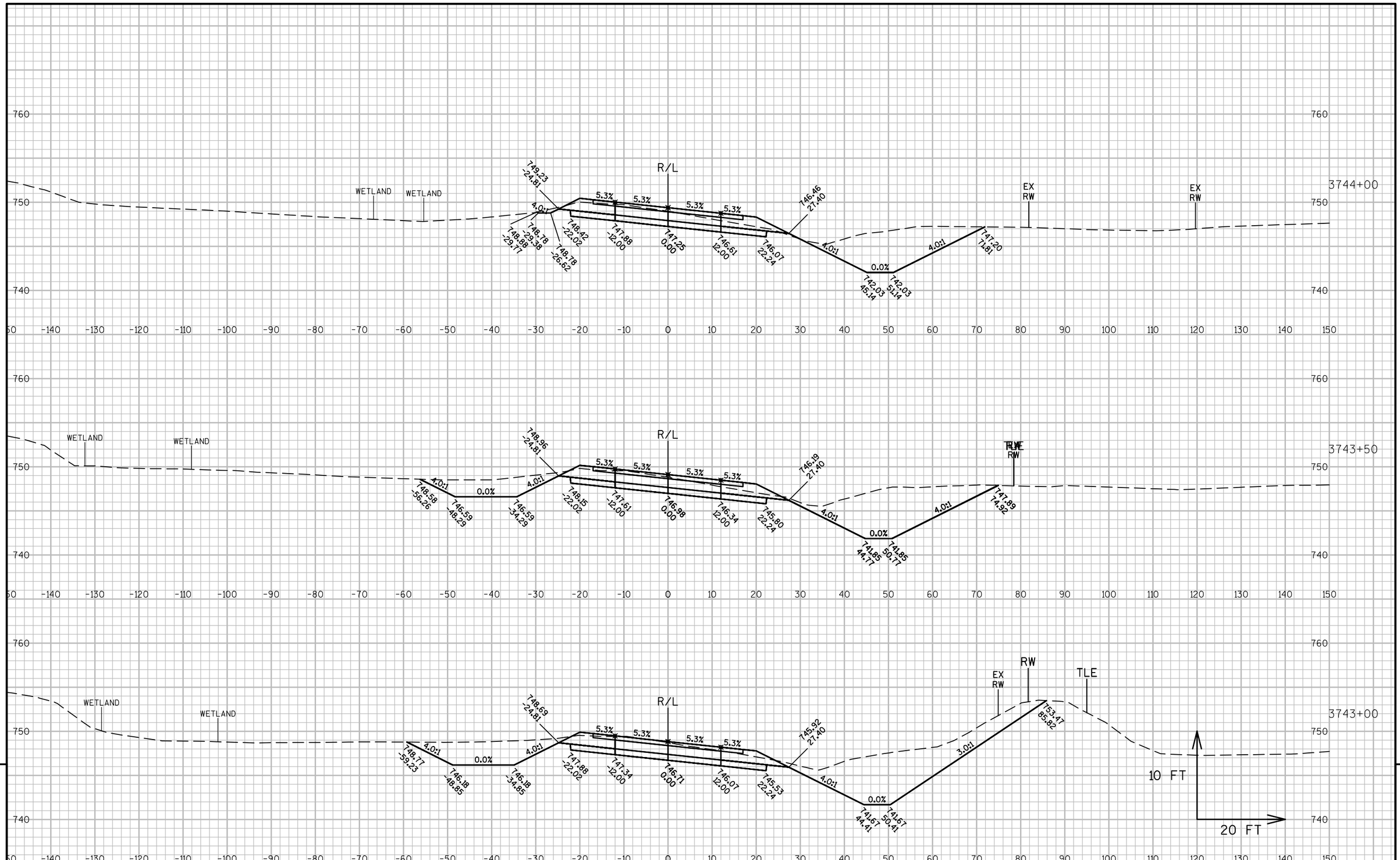
PLOT DATE : 7/31/2017 4:46 PM PLOT BY : KAIT SANFORD PLOT NAME : PLOT SCALE : 1 IN:20 FT



PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 251	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201_XS_EAST FRONTAGE ROAD_SEFR.DWG
LAYOUT NAME - 090201_XS_EAST FRONTAGE ROAD_SEFR - SEFR - (13)

PLOT DATE : 7/31/2017 4:46 PM PLOT BY : KAIT SANFORD PLOT NAME : PLOT SCALE : 1 IN:20 FT



9

9

PROJECT NO: 1030-24-70 | HWY: IH 94 | COUNTY: RACINE | CROSS SECTIONS: EAST FRONTAGE ROAD | SHEET 252 | E

PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 253	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201_XS_EAST FRONTAGE ROAD_SEFR.DWG
LAYOUT NAME - 090201_XS_EAST FRONTAGE ROAD_SEFR - SEFR - (15)

PLOT DATE : 7/31/2017 4:47 PM PLOT BY : KAIT SANFORD PLOT NAME : PLOT SCALE : 1 IN:20 FT

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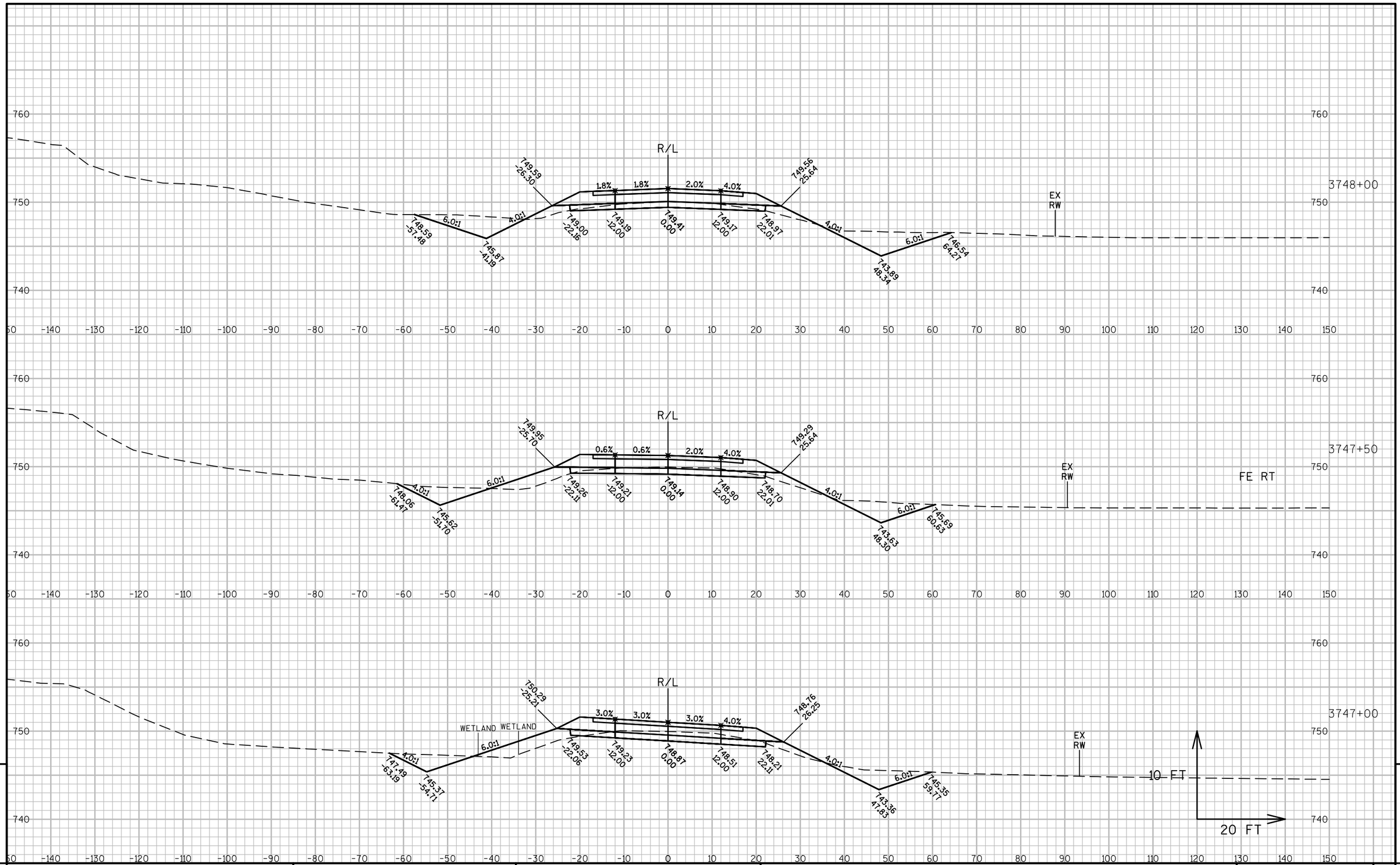
PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 254	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201_XS_EAST FRONTAGE ROAD_SEFR.DWG
LAYOUT NAME - 090201_XS_EAST FRONTAGE ROAD_SEFR - SEFR - (16)

PLOT DATE : 7/31/2017 4:47 PM PLOT BY : KAIT SANFORD PLOT NAME : PLOT SCALE : 1 IN:20 FT

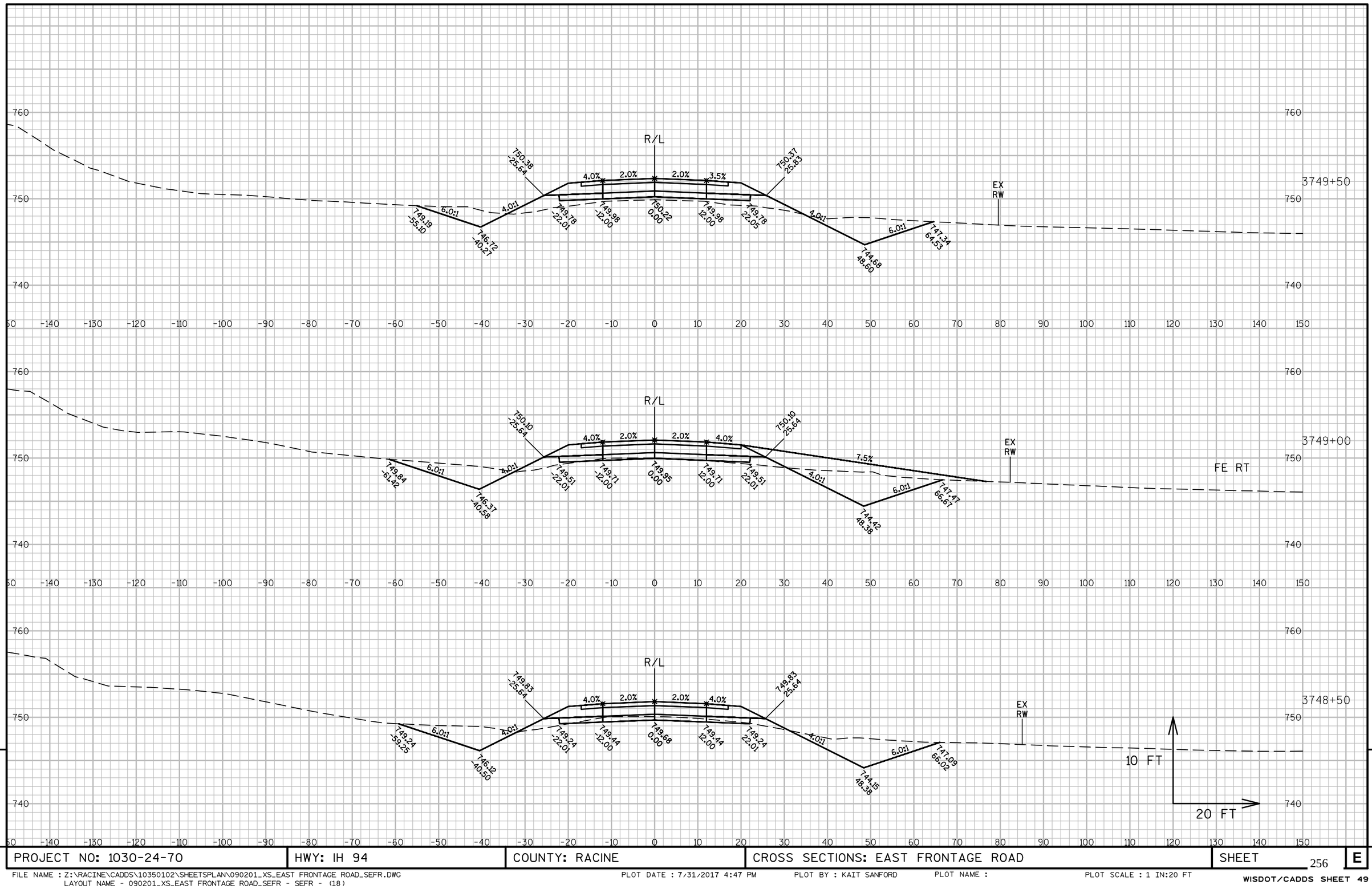


PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 255	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201_XS_EAST FRONTAGE ROAD_SEFR.DWG
LAYOUT NAME - 090201_XS_EAST FRONTAGE ROAD_SEFR - SEFR - (17)

PLOT DATE : 7/31/2017 4:47 PM PLOT BY : KAIT SANFORD PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



9

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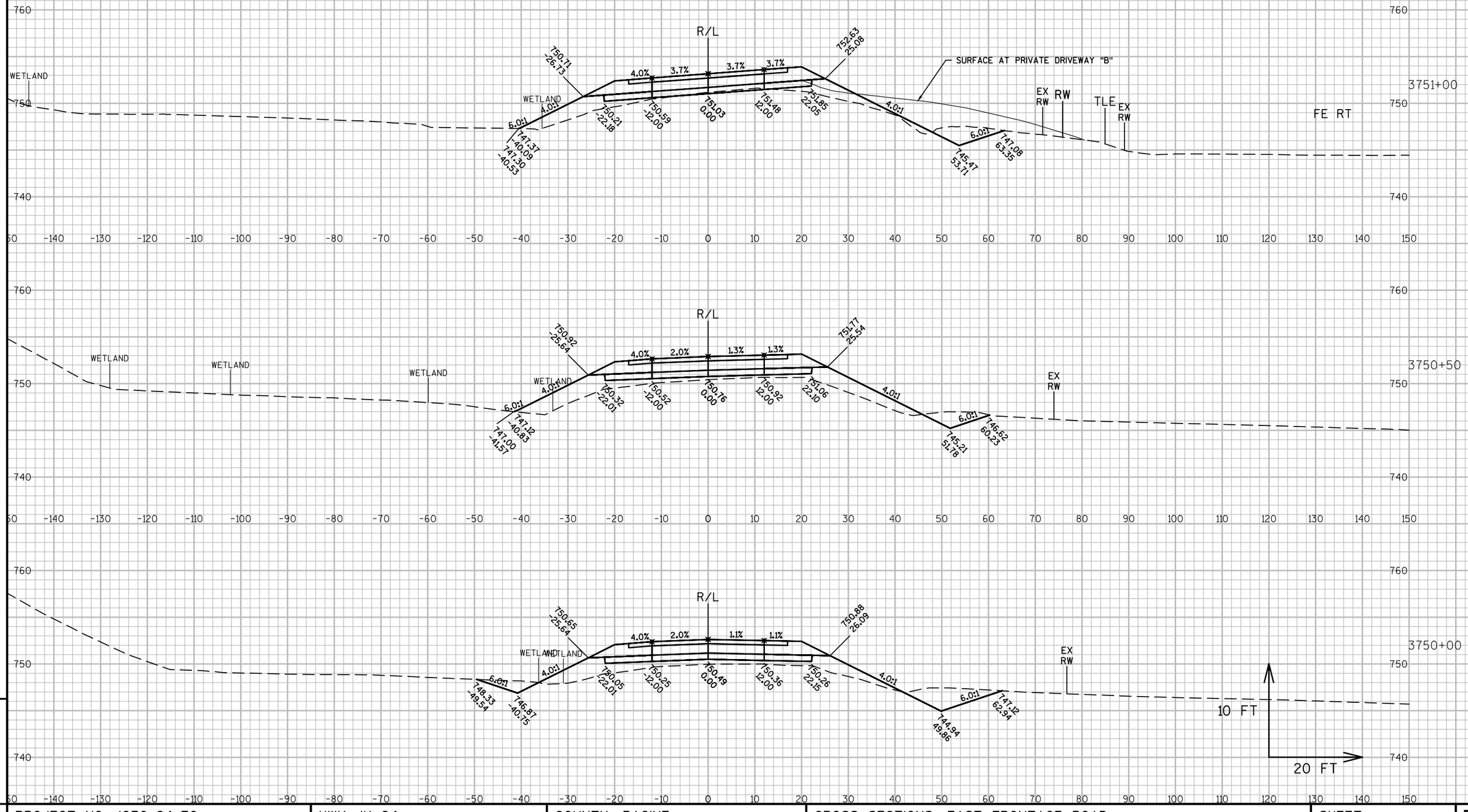
PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 256	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201_XS_EAST FRONTAGE ROAD_SEFR.DWG
LAYOUT NAME - 090201_XS_EAST FRONTAGE ROAD_SEFR - SEFR - (18)

PLOT DATE : 7/31/2017 4:47 PM PLOT BY : KAIT SANFORD PLOT NAME : PLOT SCALE : 1 IN:20 FT



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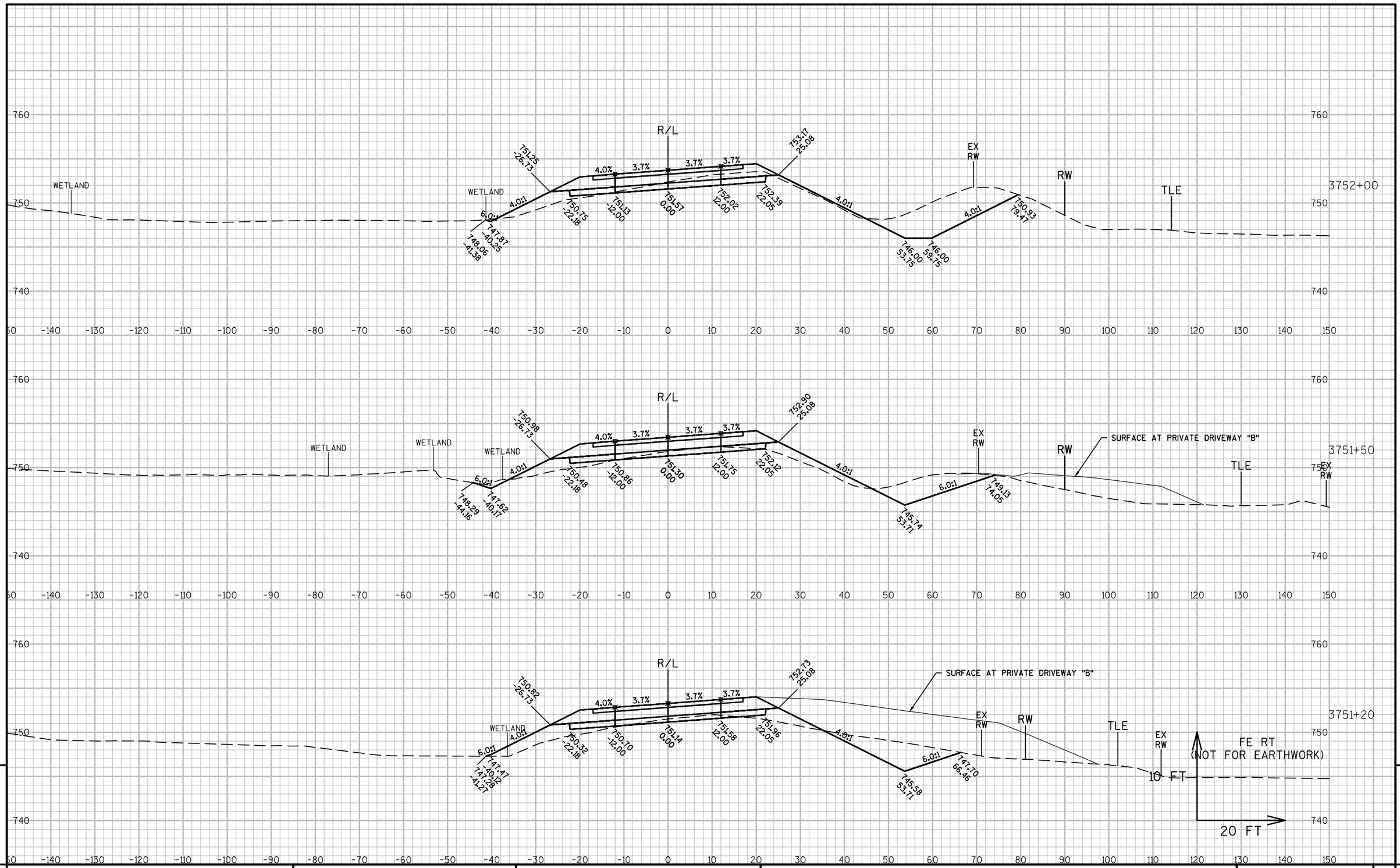
9

PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 257	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201_XS_EAST FRONTAGE ROAD_SEFR.DWG
LAYOUT NAME - 090201_XS_EAST FRONTAGE ROAD_SEFR - SEFR - (19)

PLOT DATE : 7/31/2017 4:48 PM PLOT BY : KAIT SANFORD PLOT NAME : PLOT SCALE : 1 IN:20 FT



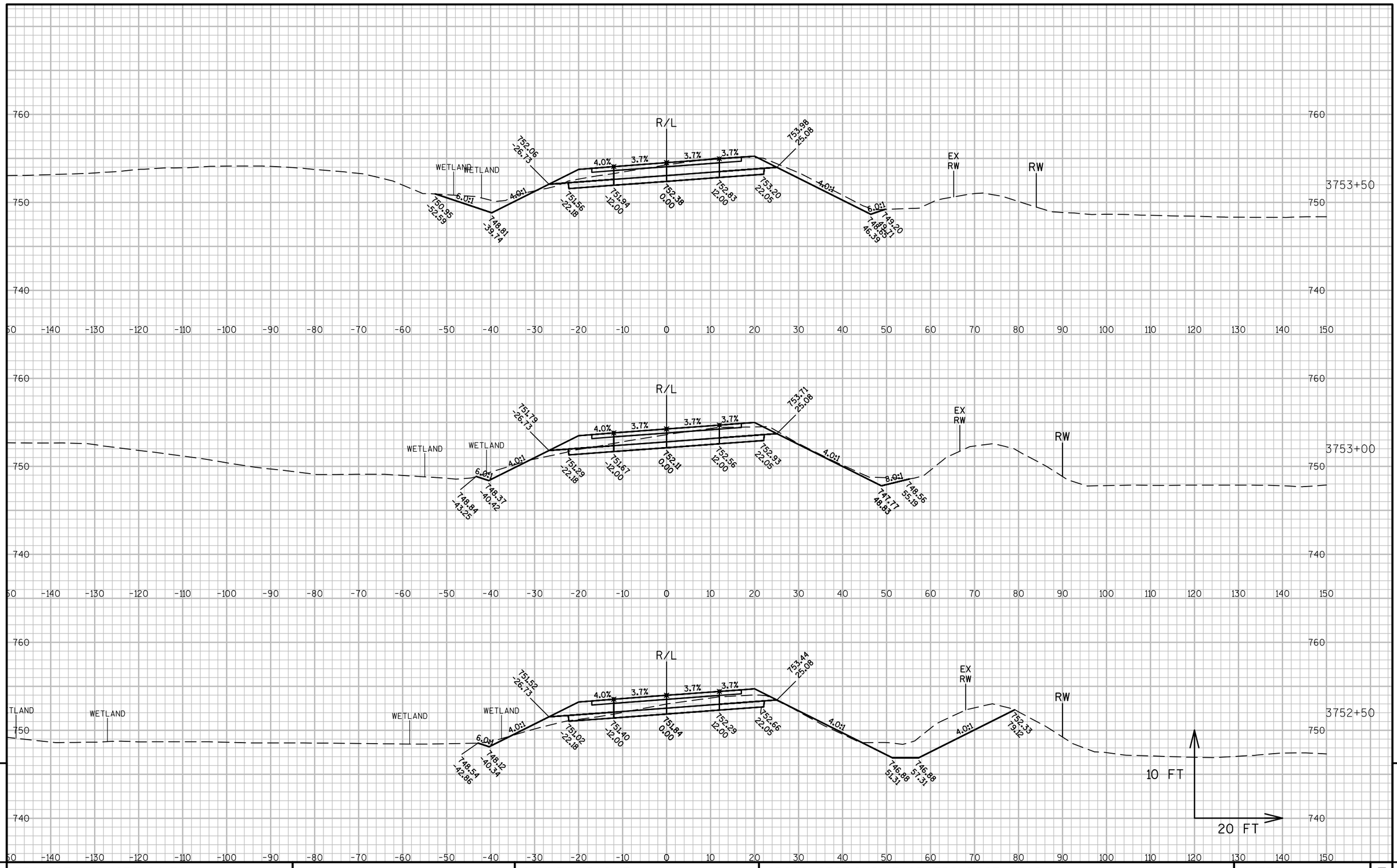
9

9

PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 258	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201_XS_EAST FRONTAGE ROAD_SEFR.DWG
LAYOUT NAME - 090201_XS_EAST FRONTAGE ROAD_SEFR - SEFR - (20)

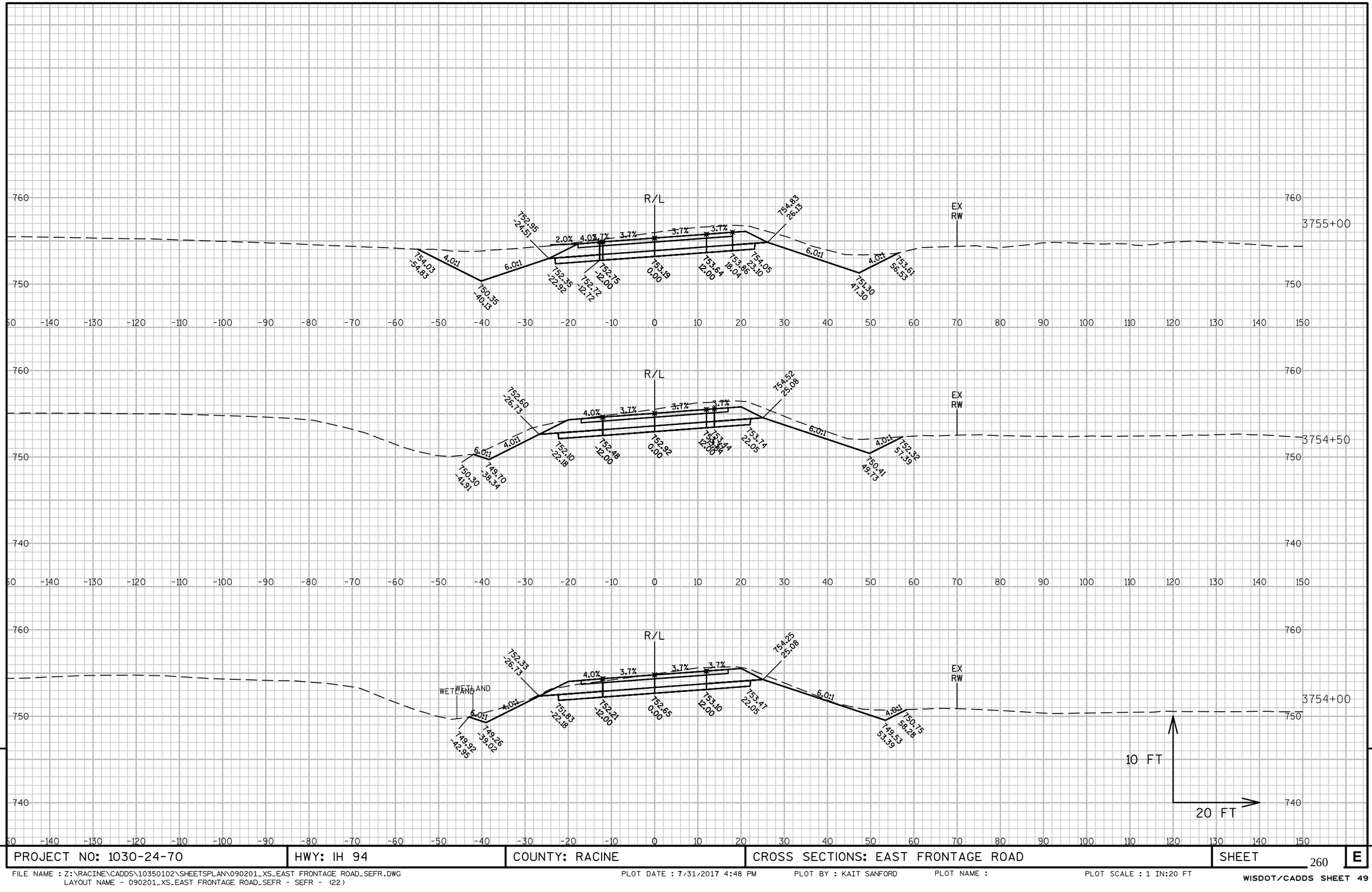
PLOT DATE : 7/31/2017 4:48 PM PLOT BY : KAIT SANFORD PLOT NAME : PLOT SCALE : 1 IN:20 FT



PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 259	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201_XS_EAST FRONTAGE ROAD_SEFR.DWG
LAYOUT NAME - 090201_XS_EAST FRONTAGE ROAD_SEFR - SEFR - (21)

PLOT DATE : 7/31/2017 4:48 PM PLOT BY : KAIT SANFORD PLOT NAME : PLOT SCALE : 1 IN:20 FT



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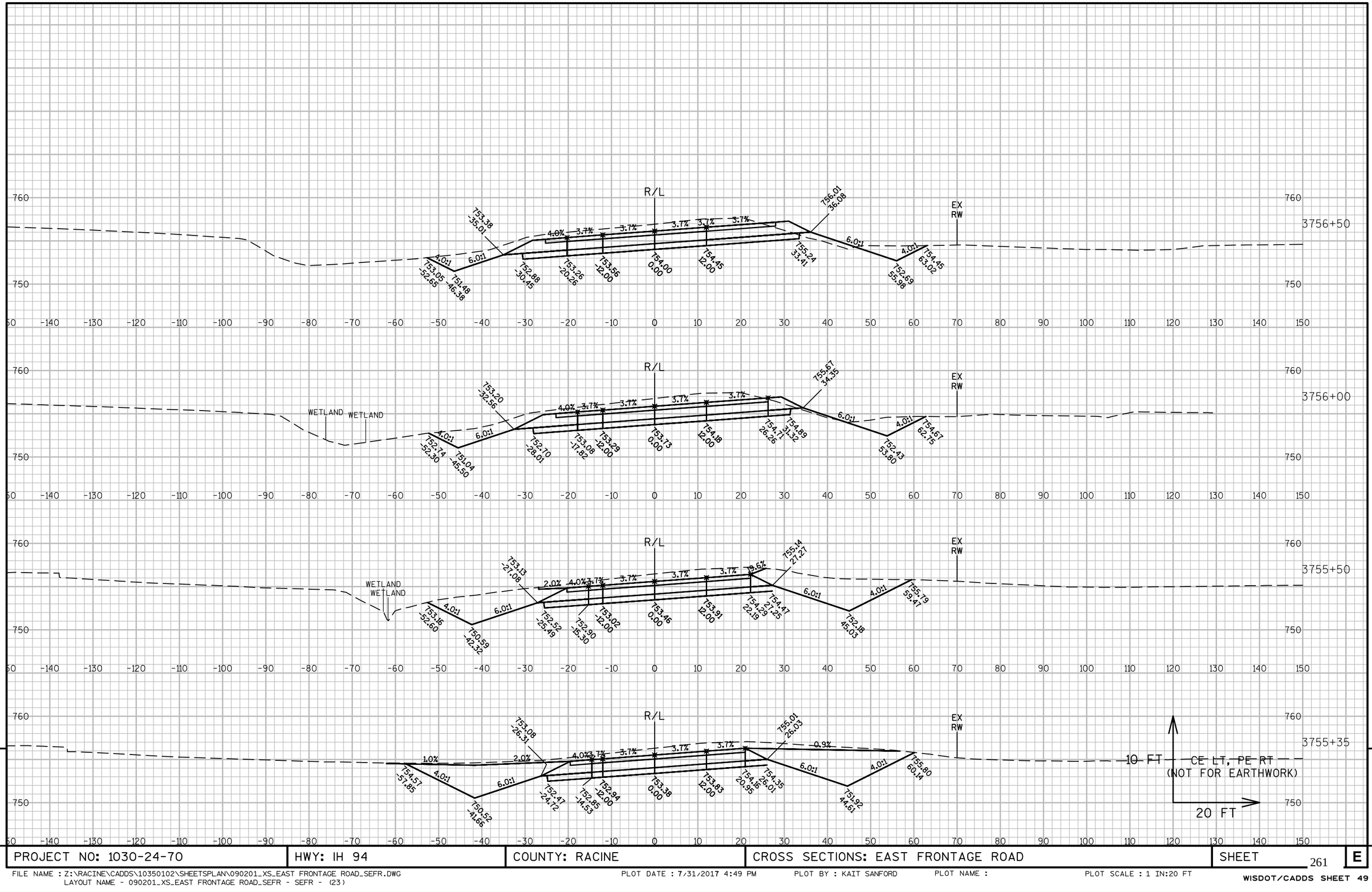
9

PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 260	E

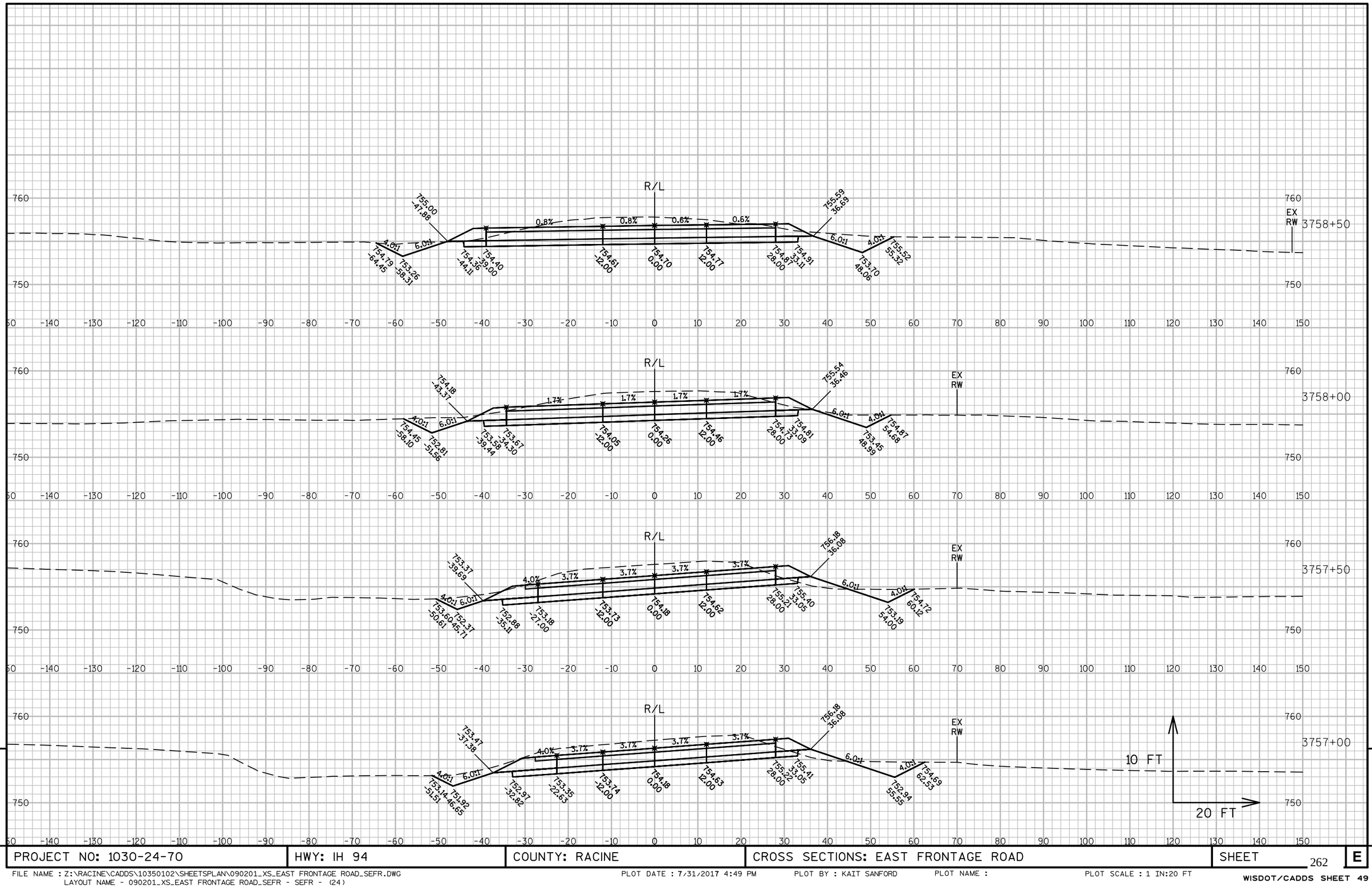
FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201_XS_EAST FRONTAGE ROAD_SEFR.DWG
LAYOUT NAME - 090201_XS_EAST FRONTAGE ROAD_SEFR - SEFR - (22)

PLOT DATE : 7/31/2017 4:48 PM PLOT BY : KAIT SANFORD PLOT NAME : PLOT SCALE : 1 IN:20 FT



9

PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 261	E

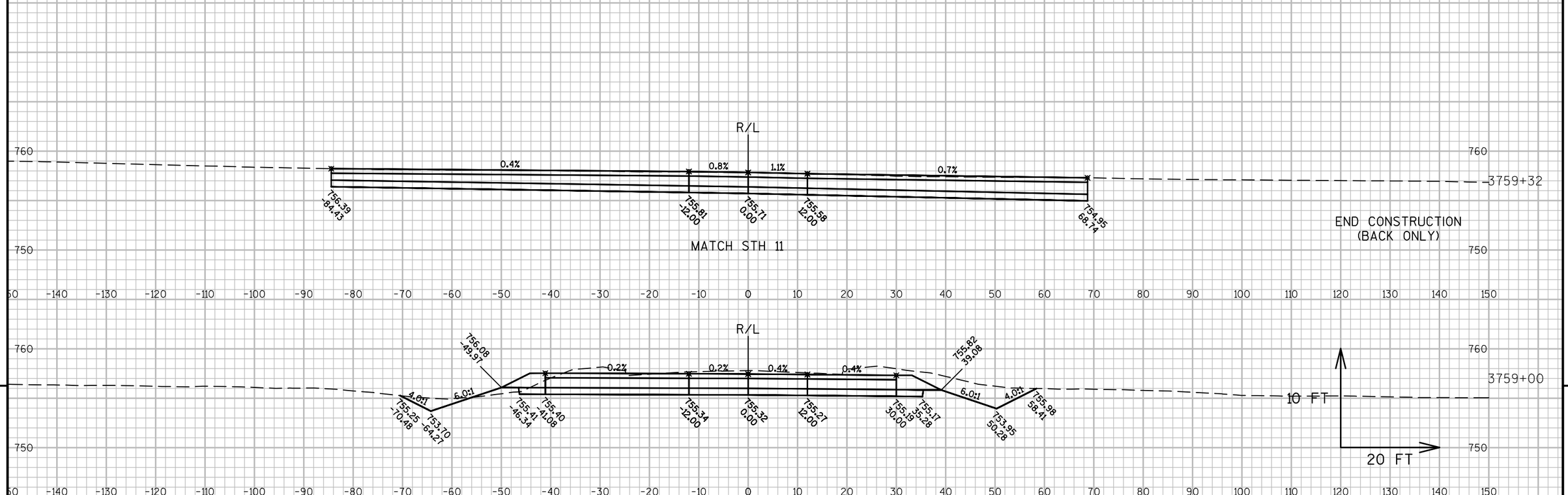


9

9

PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 262	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201_XS_EAST FRONTAGE ROAD_SEFR.DWG
LAYOUT NAME - 090201_XS_EAST FRONTAGE ROAD_SEFR - SEFR - (24)
PLOT DATE : 7/31/2017 4:49 PM PLOT BY : KAIT SANFORD PLOT NAME : PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49

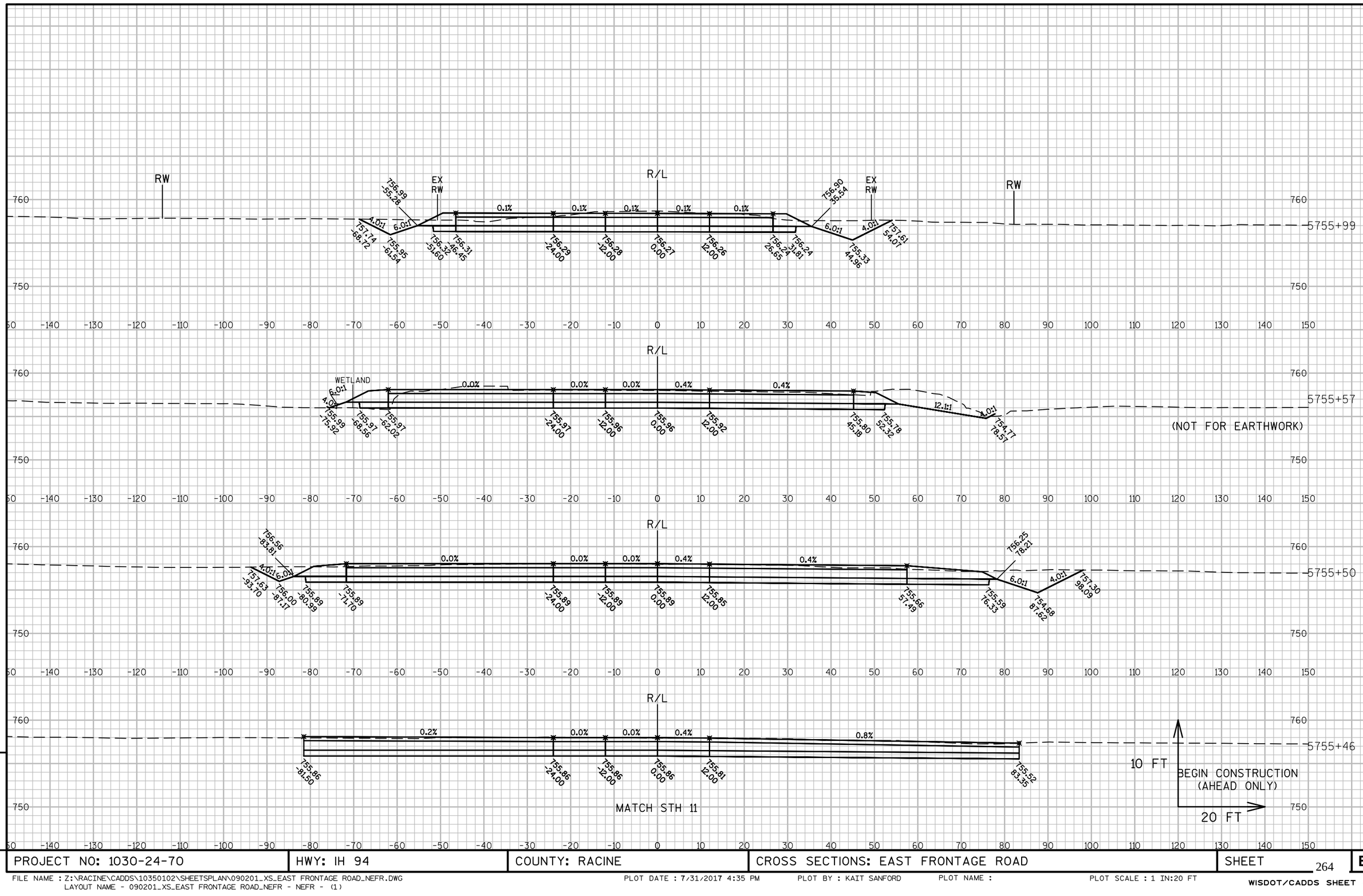


9 9

PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 263	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201_XS_EAST FRONTAGE ROAD_SEFR.DWG
LAYOUT NAME - 090201_XS_EAST FRONTAGE ROAD_SEFR - SEFR - (25)

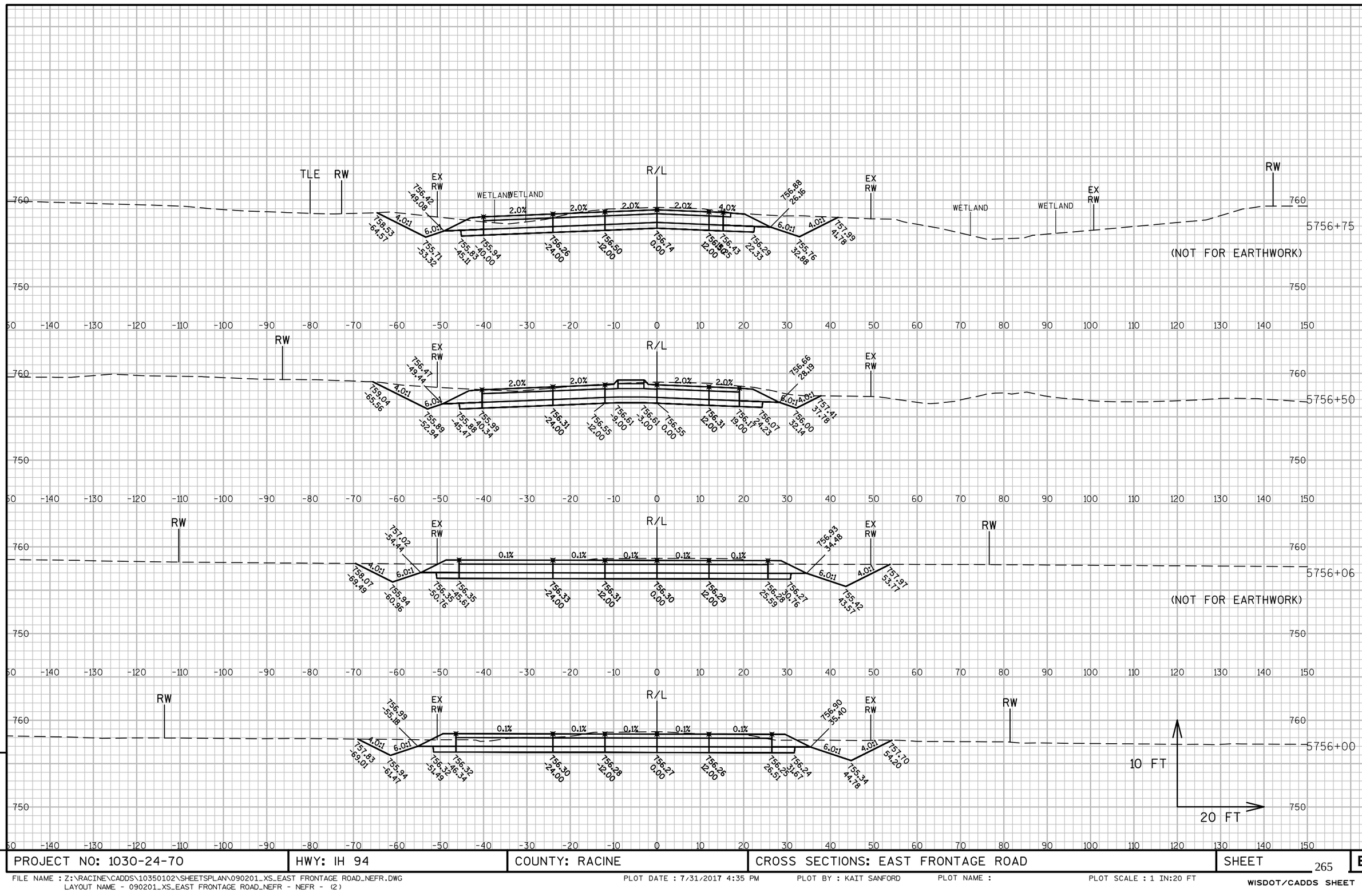
PLOT DATE : 7/31/2017 4:49 PM PLOT BY : KAIT SANFORD PLOT NAME : PLOT SCALE : 1 IN:20 FT



PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 264	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201_XS_EAST FRONTAGE ROAD_NEFR.DWG
LAYOUT NAME - 090201_XS_EAST FRONTAGE ROAD_NEFR - NEFR - (1)

PLOT DATE : 7/31/2017 4:35 PM PLOT BY : KAIT SANFORD PLOT NAME : PLOT SCALE : 1 IN:20 FT



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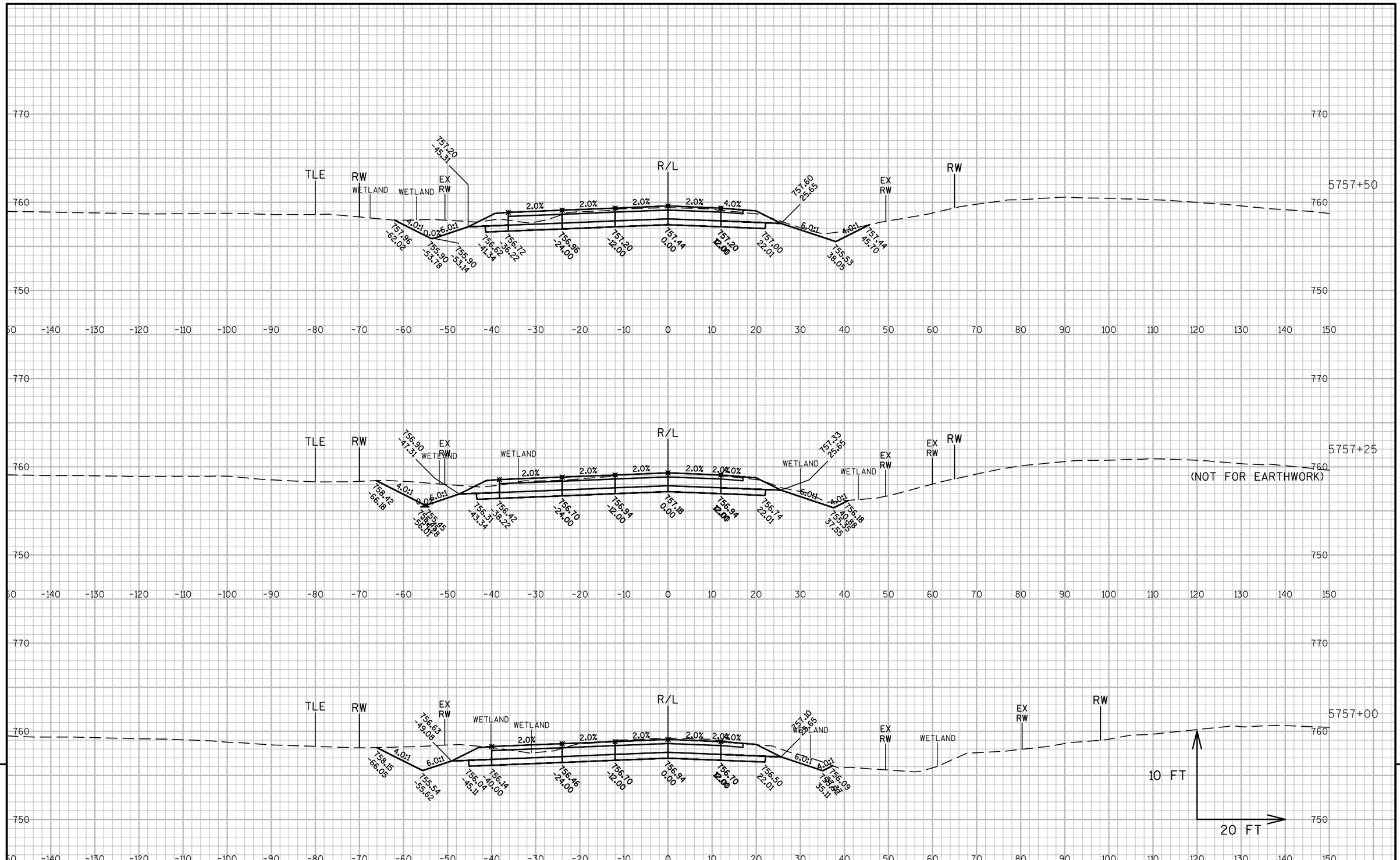
PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 265	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201_XS_EAST FRONTAGE ROAD_NEFR.DWG
LAYOUT NAME - 090201_XS_EAST FRONTAGE ROAD_NEFR - NEFR - (2)

PLOT DATE : 7/31/2017 4:35 PM PLOT BY : KAIT SANFORD PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 266	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201_XS_EAST FRONTAGE ROAD_NEFR.DWG
LAYOUT NAME - 090201_XS_EAST FRONTAGE ROAD_NEFR - NEFR - (3)

PLOT DATE : 7/31/2017 4:35 PM PLOT BY : KAIT SANFORD PLOT NAME : PLOT SCALE : 1 IN:20 FT

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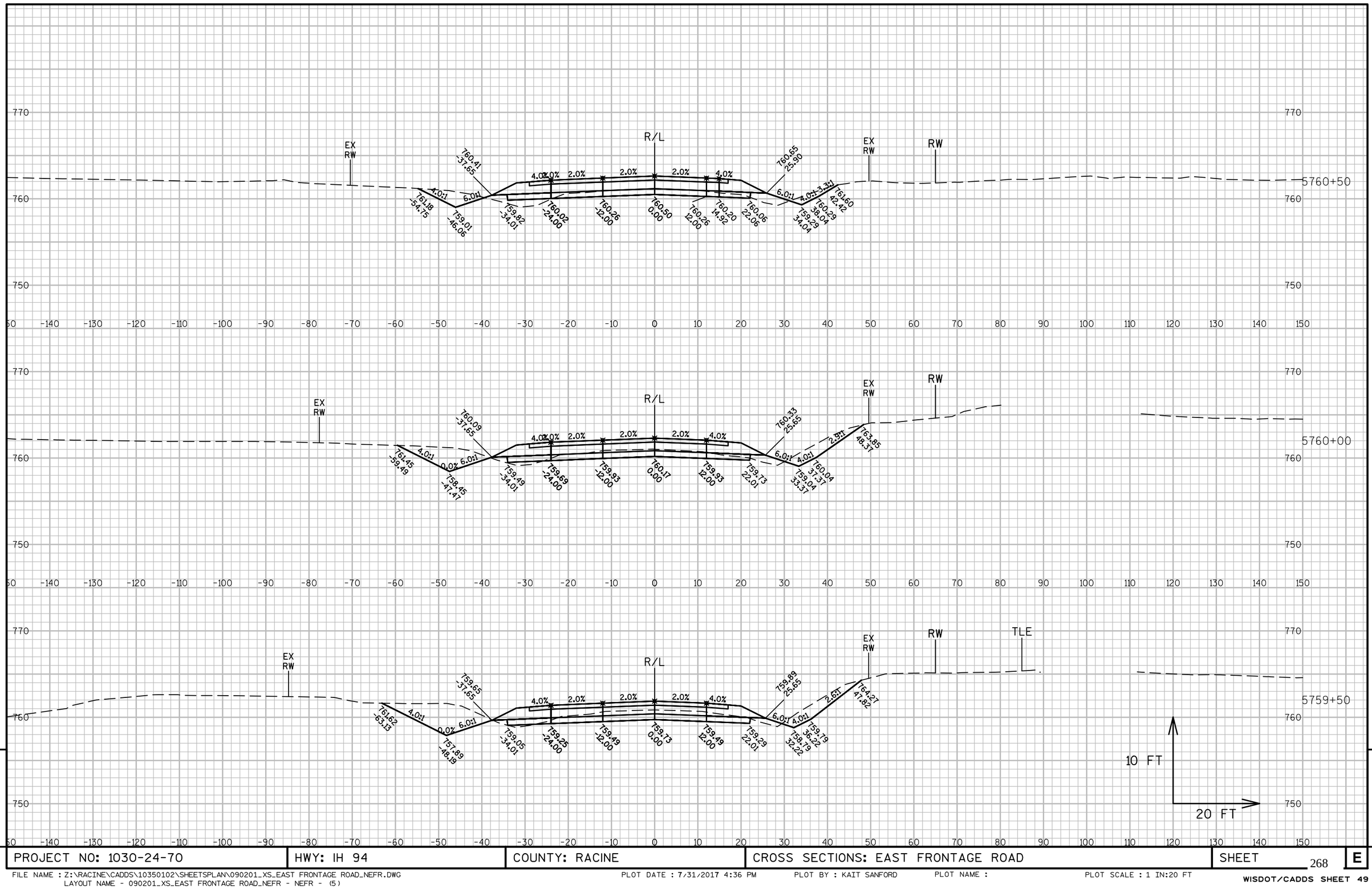
9

PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 267	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201_XS_EAST FRONTAGE ROAD_NEFR.DWG
LAYOUT NAME - 090201_XS_EAST FRONTAGE ROAD_NEFR - NEFR - (4)

PLOT DATE : 7/31/2017 4:35 PM PLOT BY : KAIT SANFORD PLOT NAME : PLOT SCALE : 1 IN:20 FT



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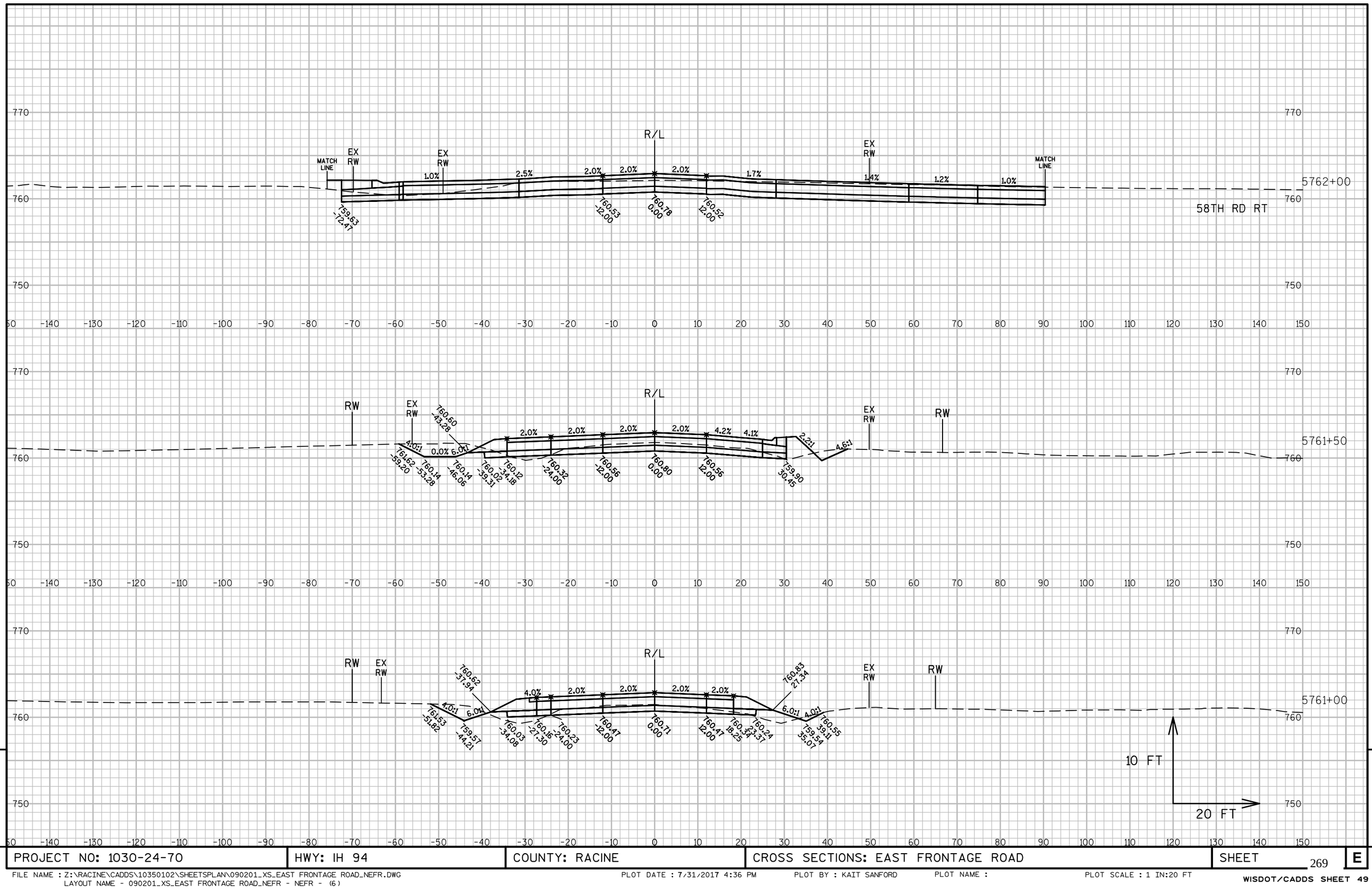
PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 268	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201_XS_EAST FRONTAGE ROAD_NEFR.DWG
LAYOUT NAME - 090201_XS_EAST FRONTAGE ROAD_NEFR - NEFR - (5)

PLOT DATE : 7/31/2017 4:36 PM PLOT BY : KAIT SANFORD PLOT NAME : PLOT SCALE : 1 IN:20 FT



PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 269	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201_XS_EAST FRONTAGE ROAD_NEFR.DWG
LAYOUT NAME - 090201_XS_EAST FRONTAGE ROAD_NEFR - NEFR - (6)

PLOT DATE : 7/31/2017 4:36 PM PLOT BY : KAIT SANFORD PLOT NAME : PLOT SCALE : 1 IN:20 FT

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PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 270	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201_XS_EAST FRONTAGE ROAD_NEFR.DWG
LAYOUT NAME - 090201_XS_EAST FRONTAGE ROAD_NEFR - NEFR - (7)

PLOT DATE : 7/31/2017 4:36 PM PLOT BY : KAIT SANFORD PLOT NAME : PLOT SCALE : 1 IN:20 FT

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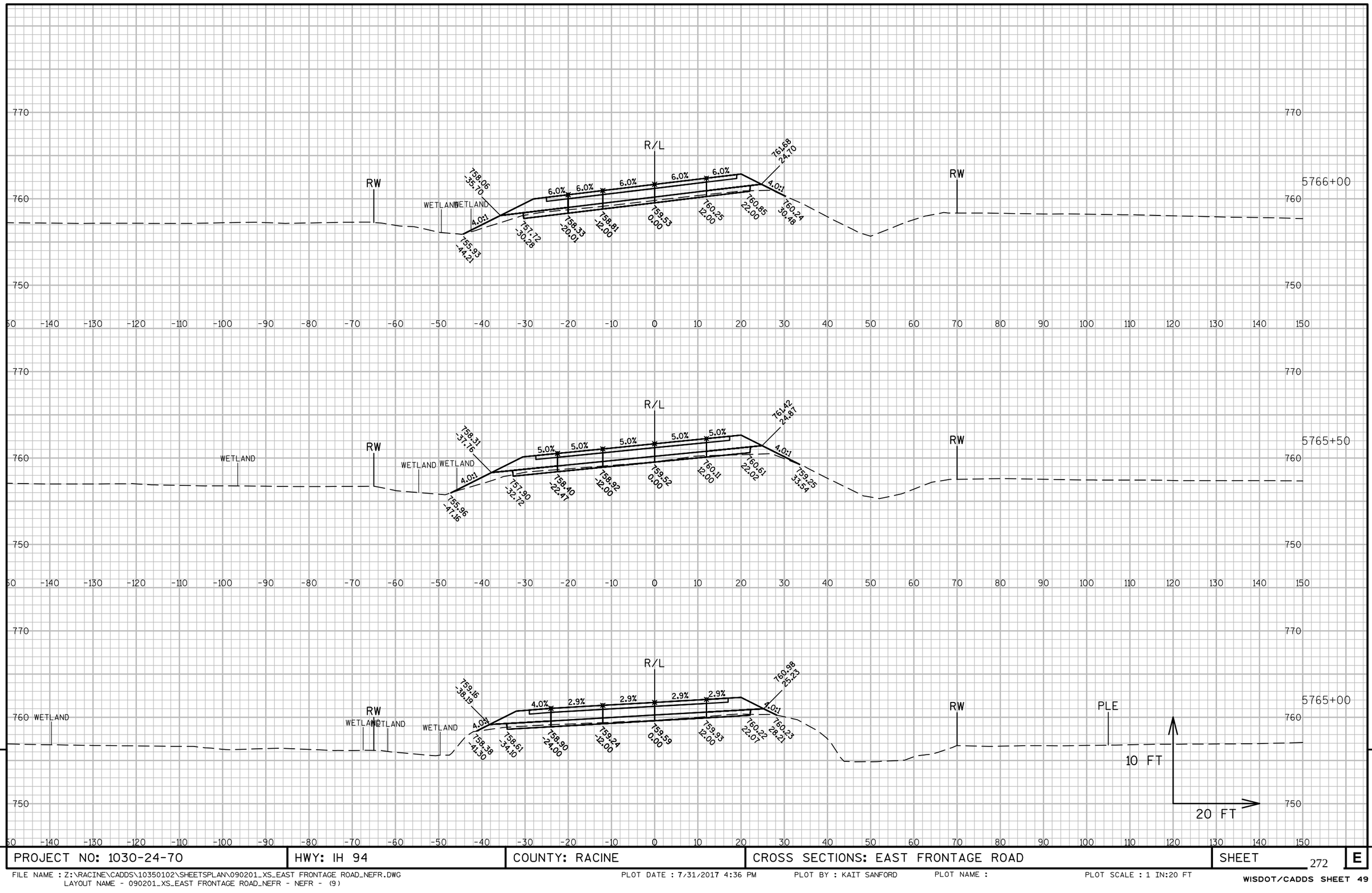
PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 271	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201_XS_EAST FRONTAGE ROAD_NEFR.DWG
LAYOUT NAME - 090201_XS_EAST FRONTAGE ROAD_NEFR - NEFR - (8)

PLOT DATE : 7/31/2017 4:36 PM PLOT BY : KAIT SANFORD PLOT NAME : PLOT SCALE : 1 IN:20 FT

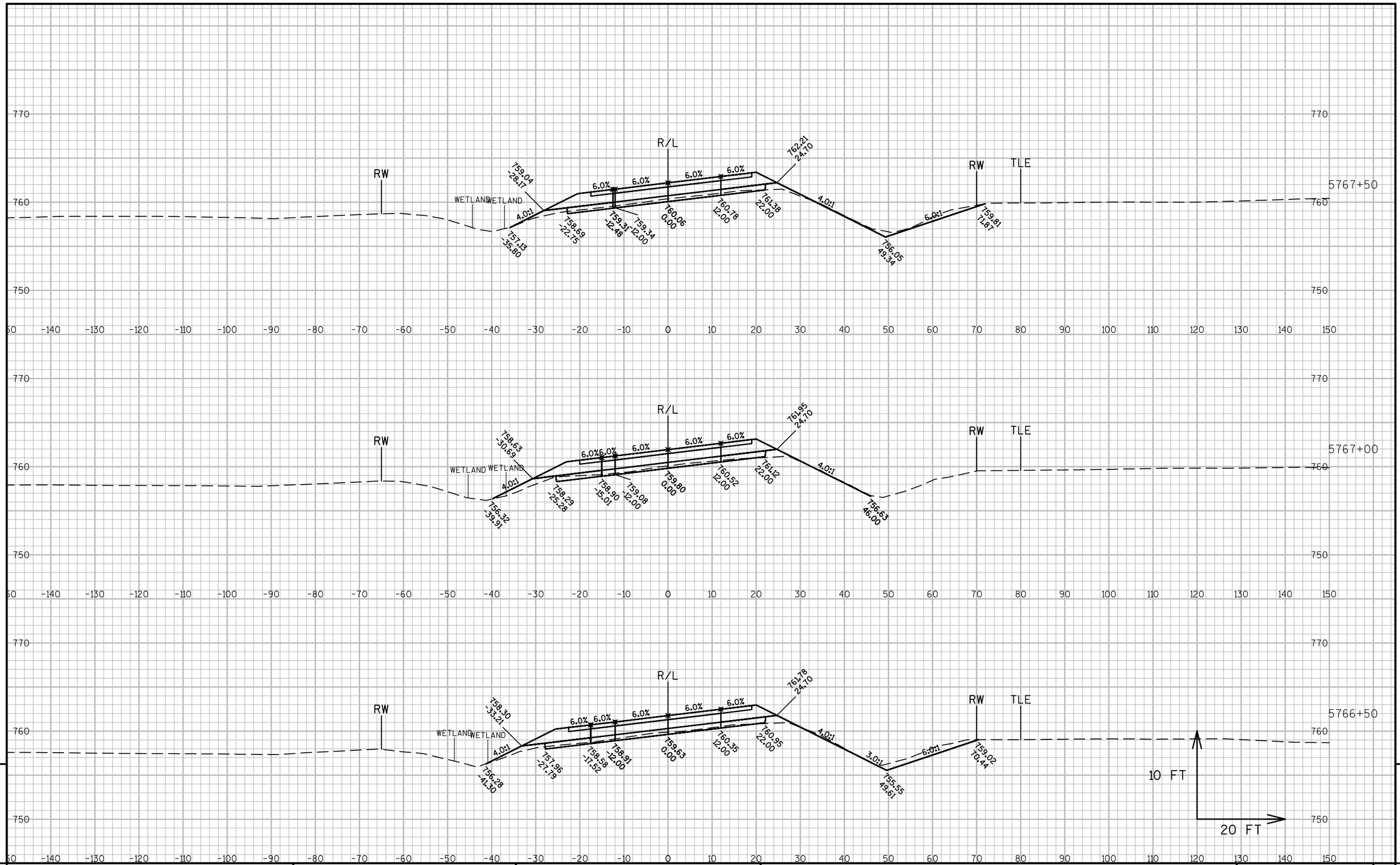


PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 272	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201_XS_EAST FRONTAGE ROAD_NEFR.DWG
LAYOUT NAME - 090201_XS_EAST FRONTAGE ROAD_NEFR - NEFR - (9)

PLOT DATE : 7/31/2017 4:36 PM PLOT BY : KAIT SANFORD PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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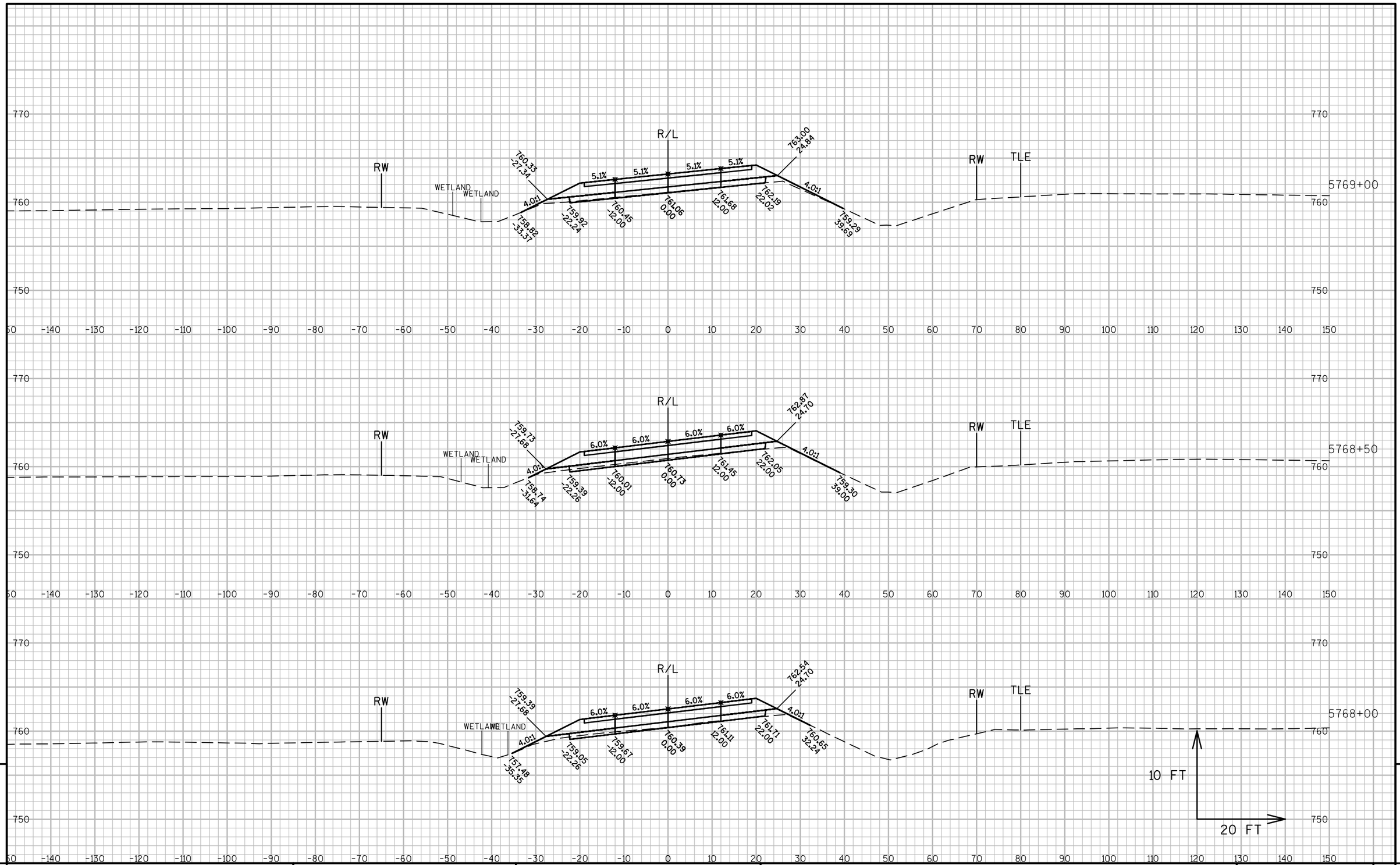
PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 273	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201_XS_EAST FRONTAGE ROAD_NEFR.DWG
LAYOUT NAME - 090201_XS_EAST FRONTAGE ROAD_NEFR - NEFR - (10)

PLOT DATE : 7/31/2017 4:37 PM PLOT BY : KAIT SANFORD PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 274	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201_XS_EAST FRONTAGE ROAD_NEFR.DWG
LAYOUT NAME - 090201_XS_EAST FRONTAGE ROAD_NEFR - NEFR - (11)

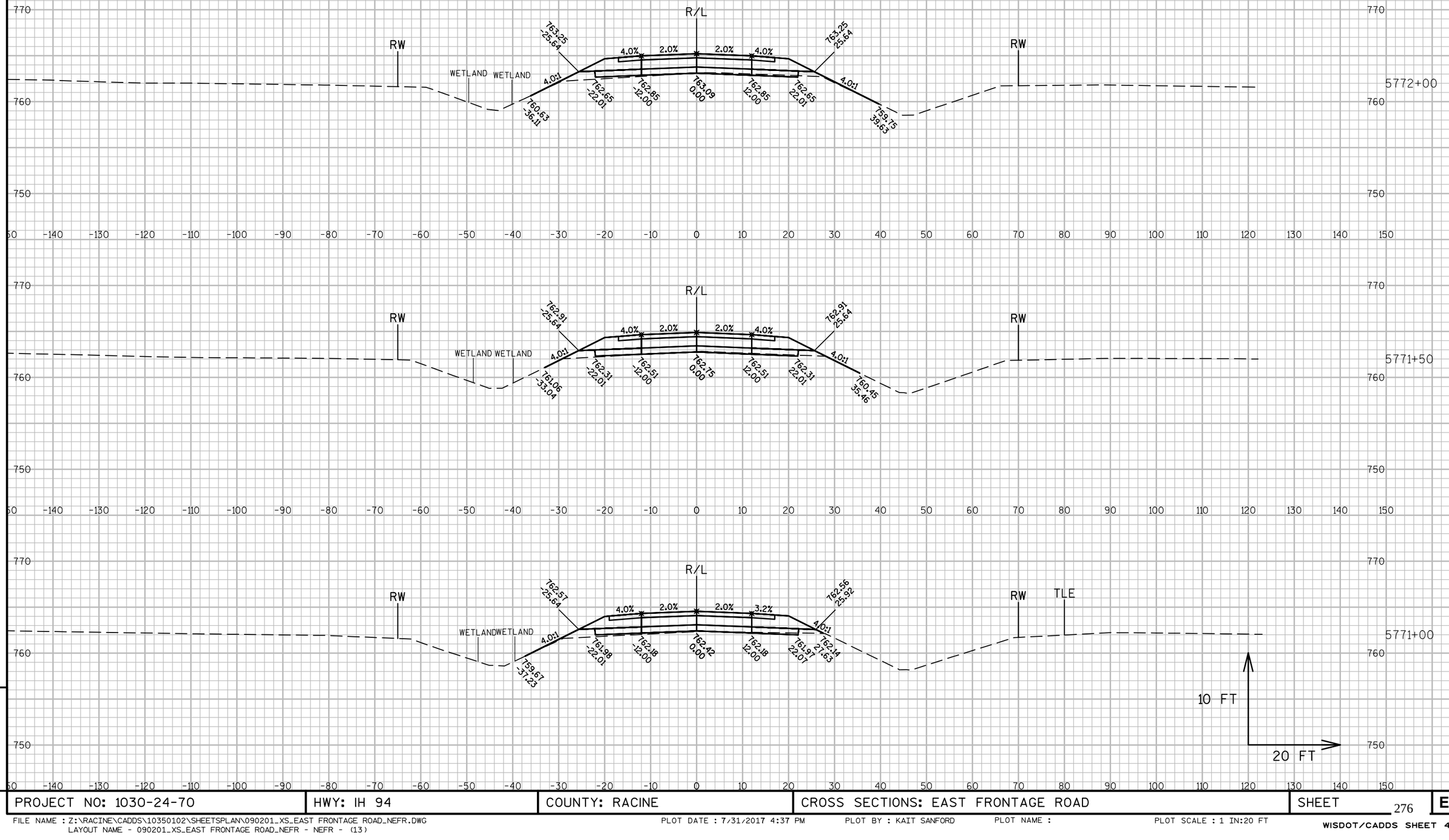
PLOT DATE : 7/31/2017 4:37 PM PLOT BY : KAIT SANFORD PLOT NAME : PLOT SCALE : 1 IN:20 FT

PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 275 E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201_XS_EAST FRONTAGE ROAD_NEFR.DWG
LAYOUT NAME - 090201_XS_EAST FRONTAGE ROAD_NEFR - NEFR - (12)

PLOT DATE : 7/31/2017 4:37 PM PLOT BY : KAIT SANFORD PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



9

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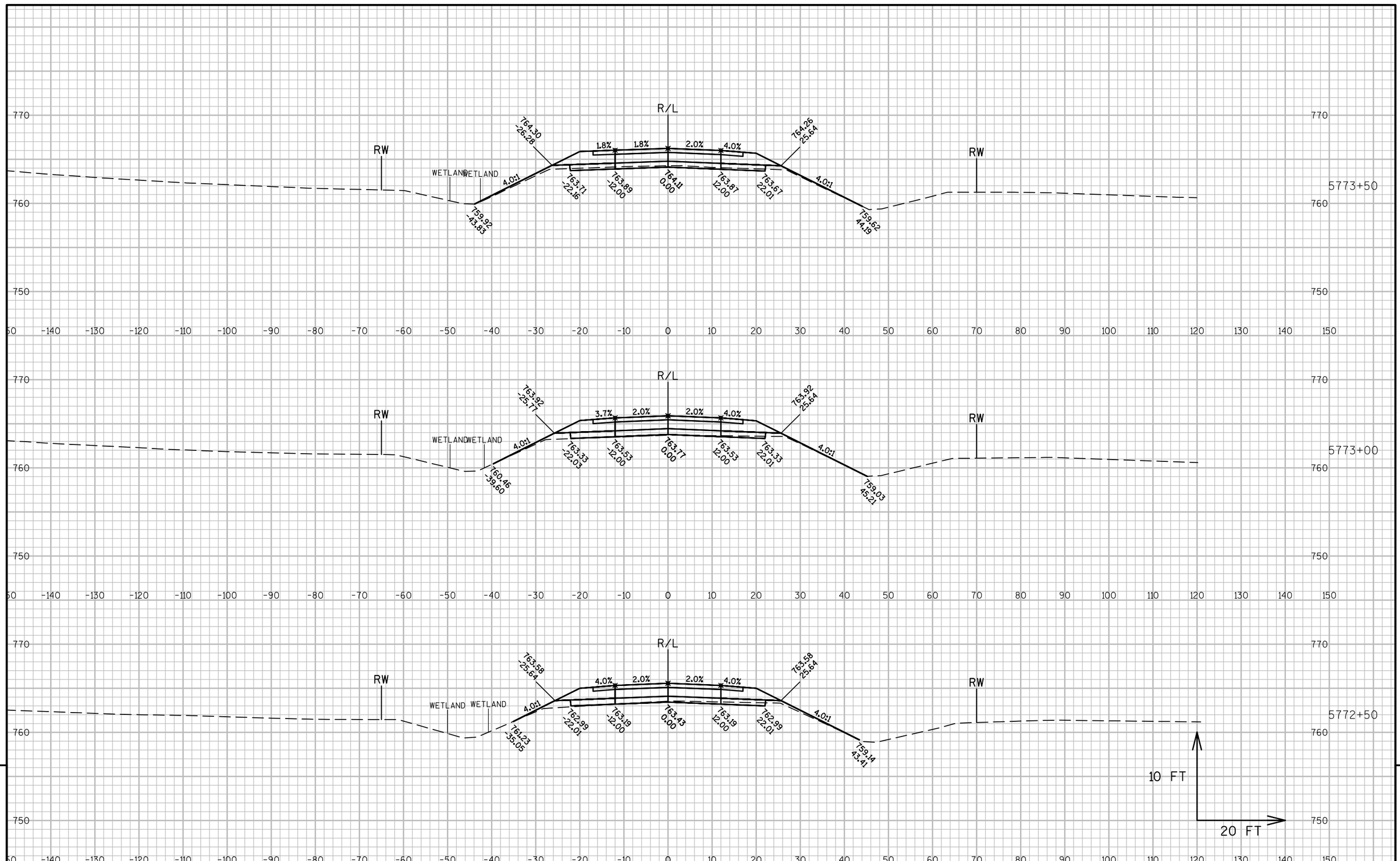
PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 276	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201_XS_EAST FRONTAGE ROAD_NEFR.DWG
LAYOUT NAME - 090201_XS_EAST FRONTAGE ROAD_NEFR - NEFR - (13)

PLOT DATE : 7/31/2017 4:37 PM PLOT BY : KAIT SANFORD PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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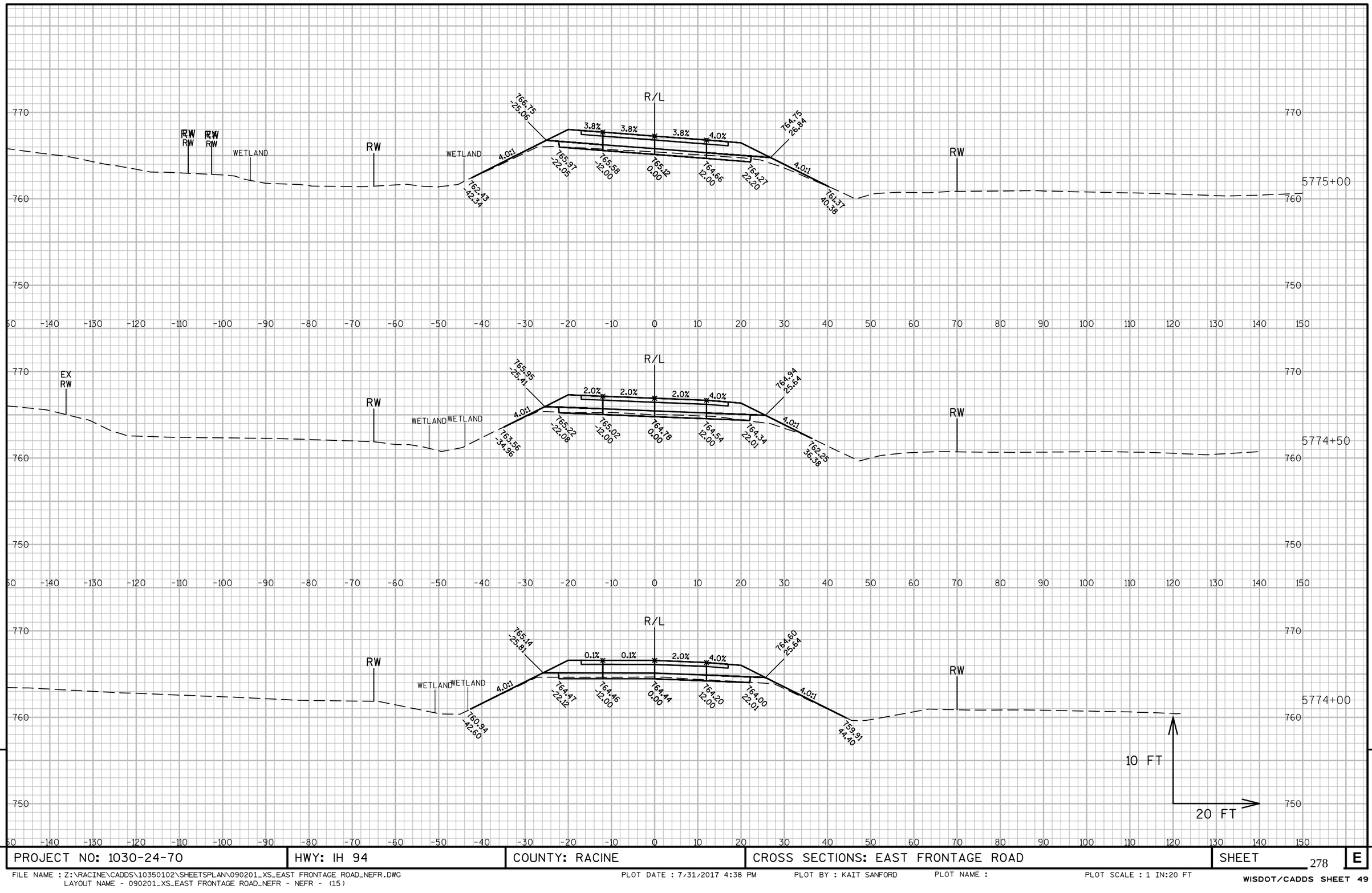
PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 277	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201_XS_EAST FRONTAGE ROAD_NEFR.DWG
LAYOUT NAME - 090201_XS_EAST FRONTAGE ROAD_NEFR - NEFR - (14)

PLOT DATE : 7/31/2017 4:38 PM PLOT BY : KAIT SANFORD PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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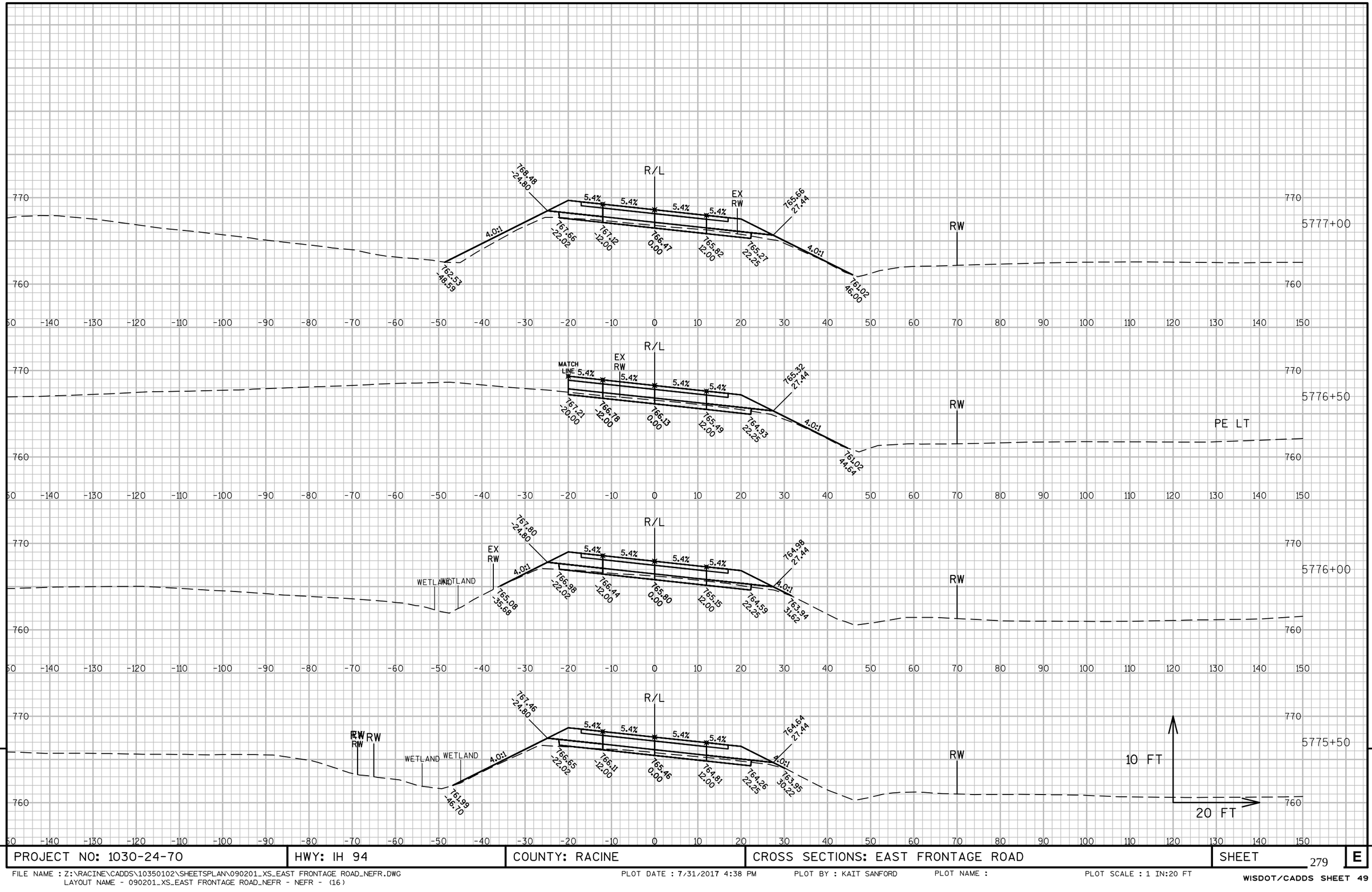
9

PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 278	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201_XS_EAST FRONTAGE ROAD_NEFR.DWG
LAYOUT NAME - 090201_XS_EAST FRONTAGE ROAD_NEFR - NEFR - (15)

PLOT DATE : 7/31/2017 4:38 PM PLOT BY : KAIT SANFORD PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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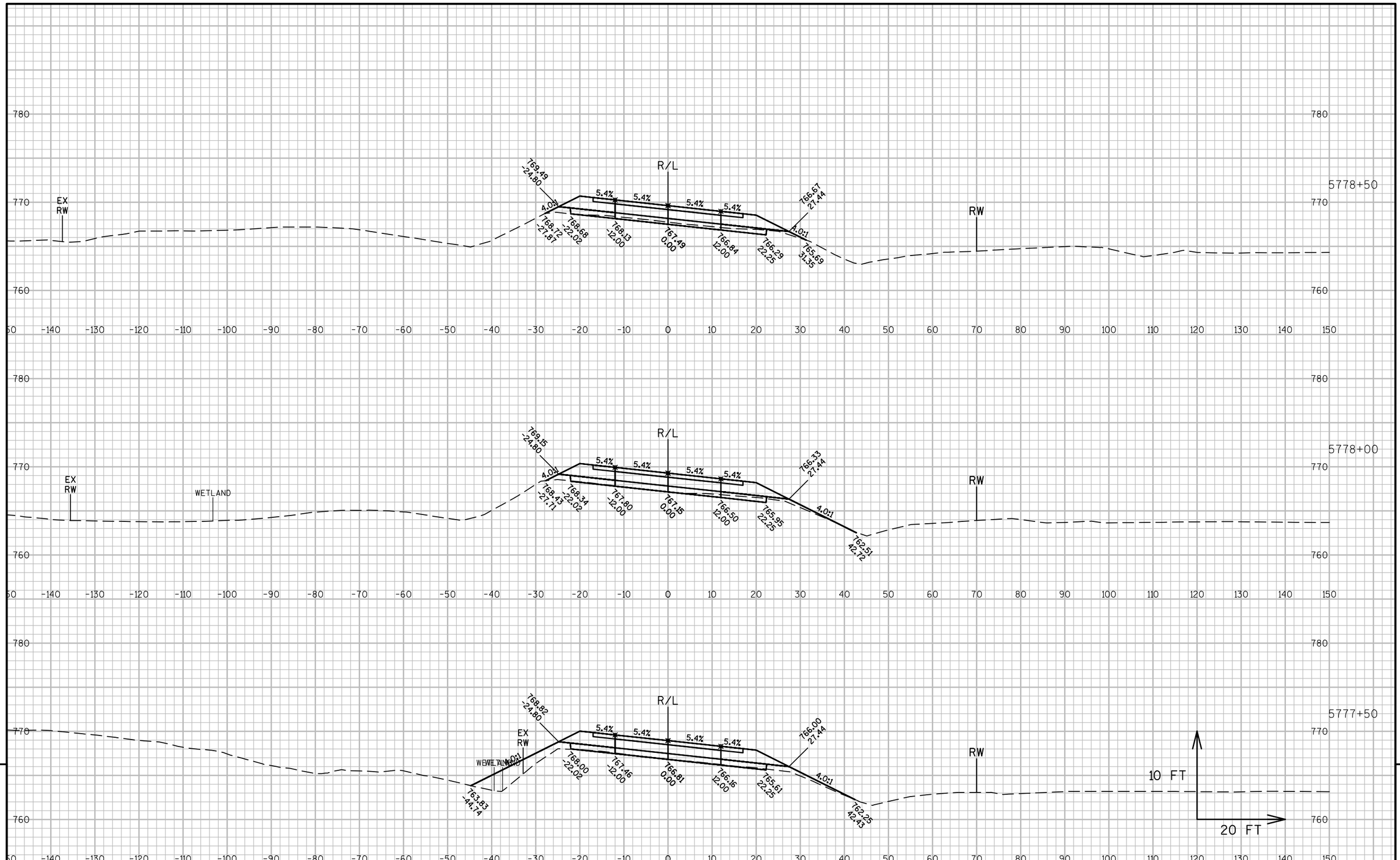
PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 279	E



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PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 280	E

9

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201_XS_EAST FRONTAGE ROAD_NEFR.DWG
LAYOUT NAME - 090201_XS_EAST FRONTAGE ROAD_NEFR - NEFR - (17)

PLOT DATE : 7/31/2017 4:38 PM PLOT BY : KAIT SANFORD PLOT NAME : PLOT SCALE : 1 IN:20 FT

PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 281	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201_XS_EAST FRONTAGE ROAD_NEFR.DWG
LAYOUT NAME - 090201_XS_EAST FRONTAGE ROAD_NEFR - NEFR - (18)

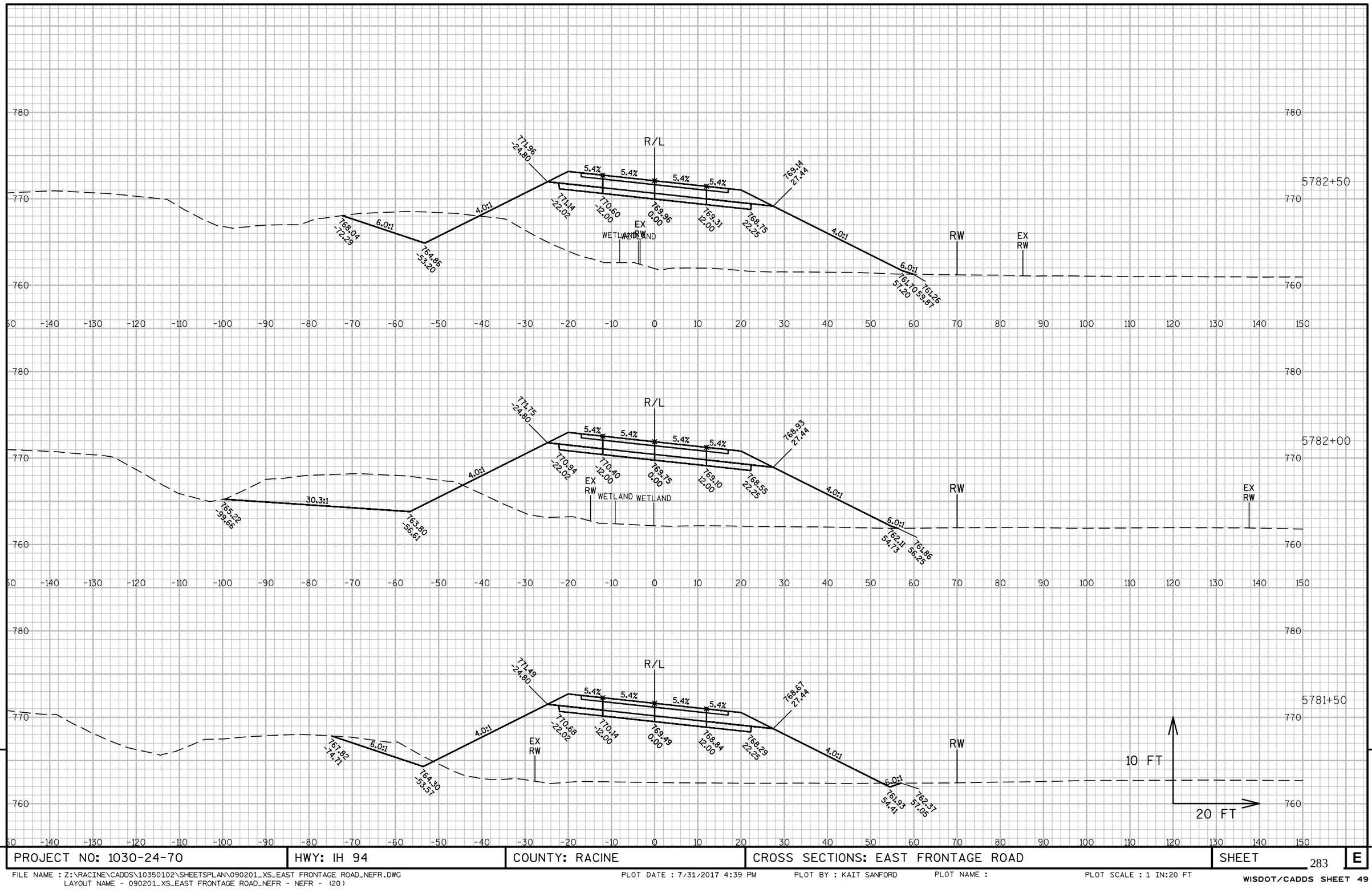
PLOT DATE : 7/31/2017 4:39 PM PLOT BY : KAIT SANFORD PLOT NAME : PLOT SCALE : 1 IN:20 FT

PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 282	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201_XS_EAST FRONTAGE ROAD_NEFR.DWG
LAYOUT NAME - 090201_XS_EAST FRONTAGE ROAD_NEFR - NEFR - (19)

PLOT DATE : 7/31/2017 4:39 PM PLOT BY : KAIT SANFORD PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 283	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201_XS_EAST FRONTAGE ROAD_NEFR.DWG
LAYOUT NAME - 090201_XS_EAST FRONTAGE ROAD_NEFR - NEFR - (20)

PLOT DATE : 7/31/2017 4:39 PM PLOT BY : KAIT SANFORD PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

9

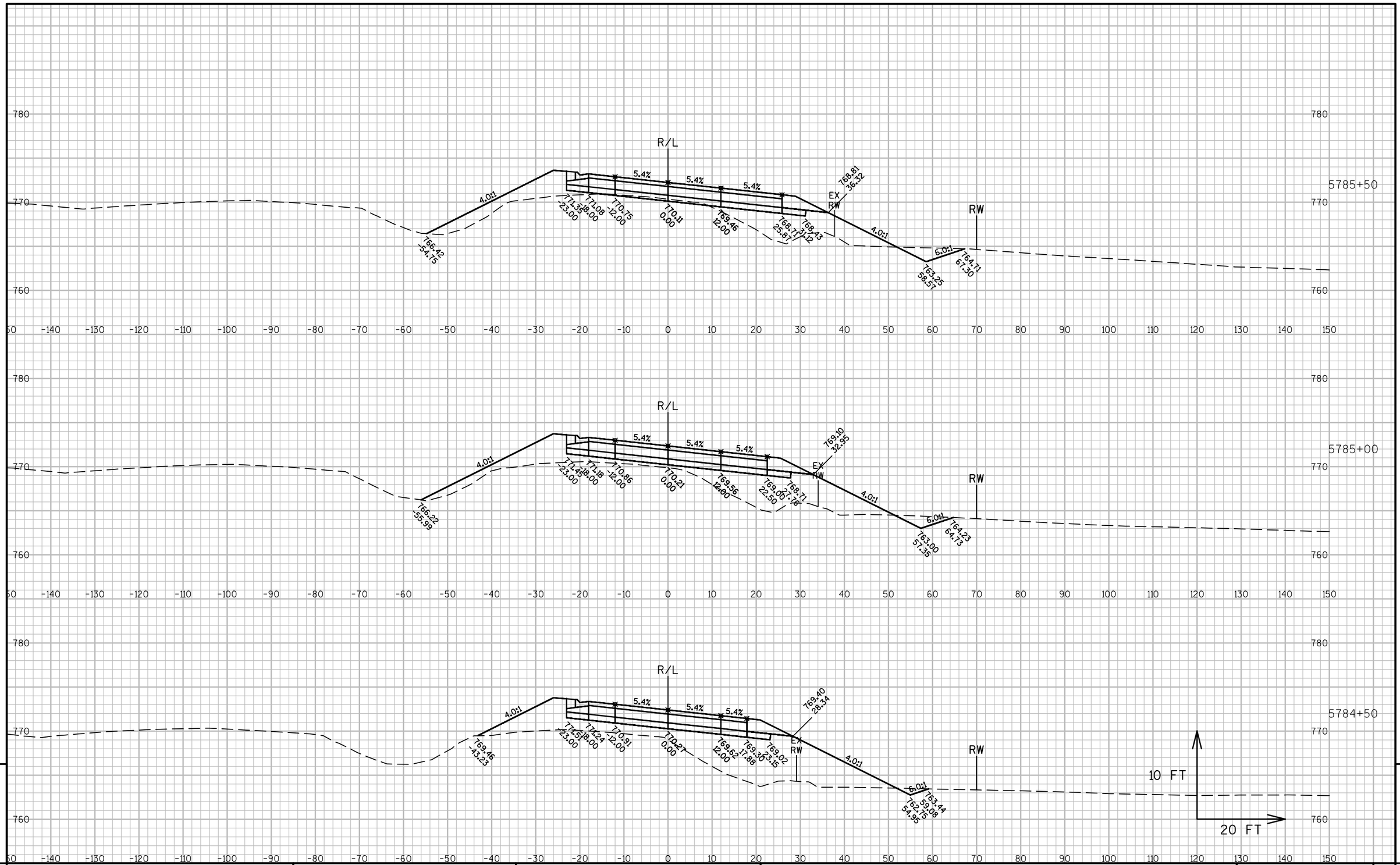
PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 284	E

9

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201_XS_EAST FRONTAGE ROAD_NEFR.DWG
LAYOUT NAME - 090201_XS_EAST FRONTAGE ROAD_NEFR - NEFR - (21)

PLOT DATE : 7/31/2017 4:39 PM PLOT BY : KAIT SANFORD PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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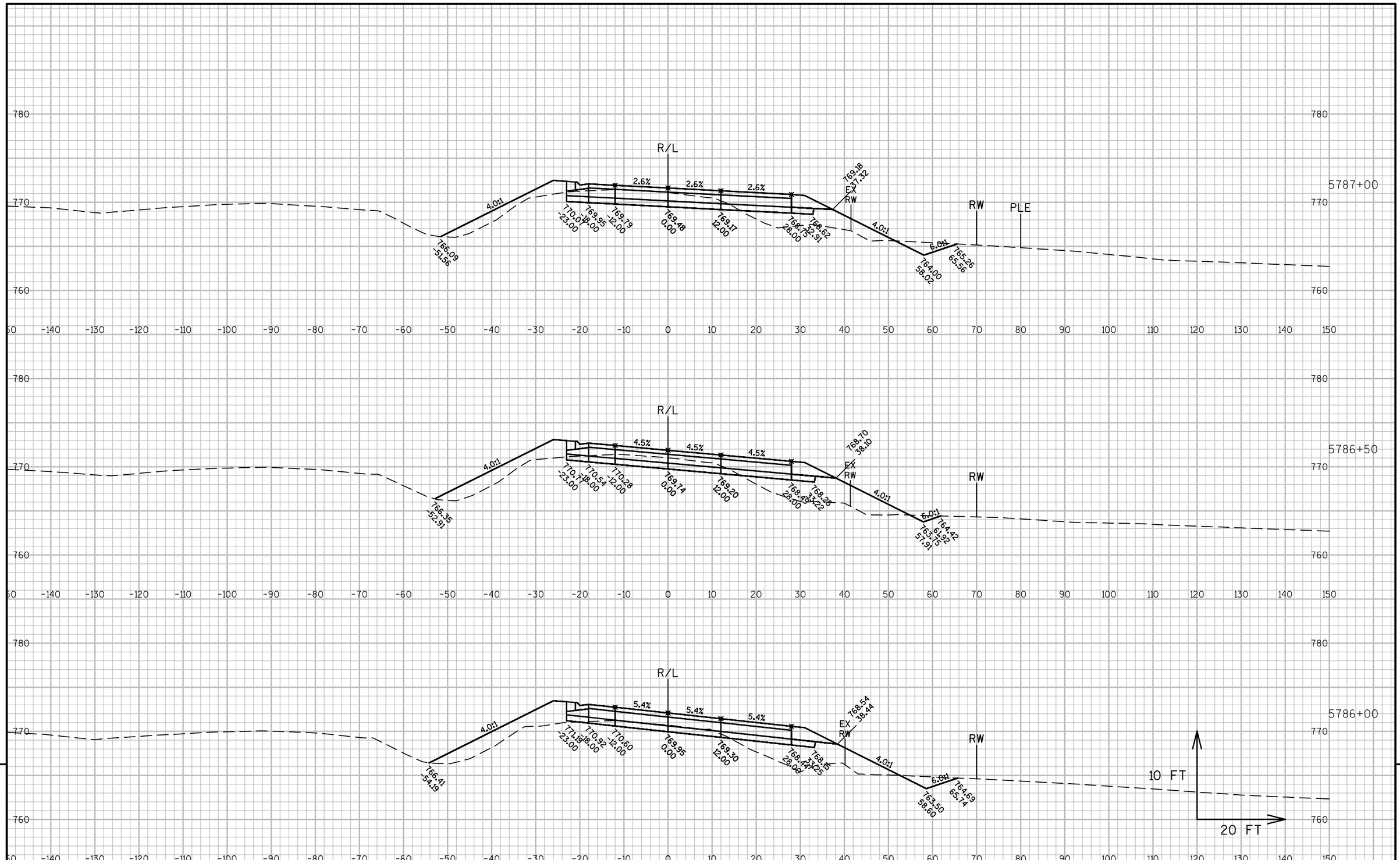
PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 285	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201_XS_EAST FRONTAGE ROAD_NEFR.DWG
LAYOUT NAME - 090201_XS_EAST FRONTAGE ROAD_NEFR - NEFR - (22)

PLOT DATE : 7/31/2017 4:39 PM PLOT BY : KAIT SANFORD PLOT NAME : PLOT SCALE : 1 IN:20 FT



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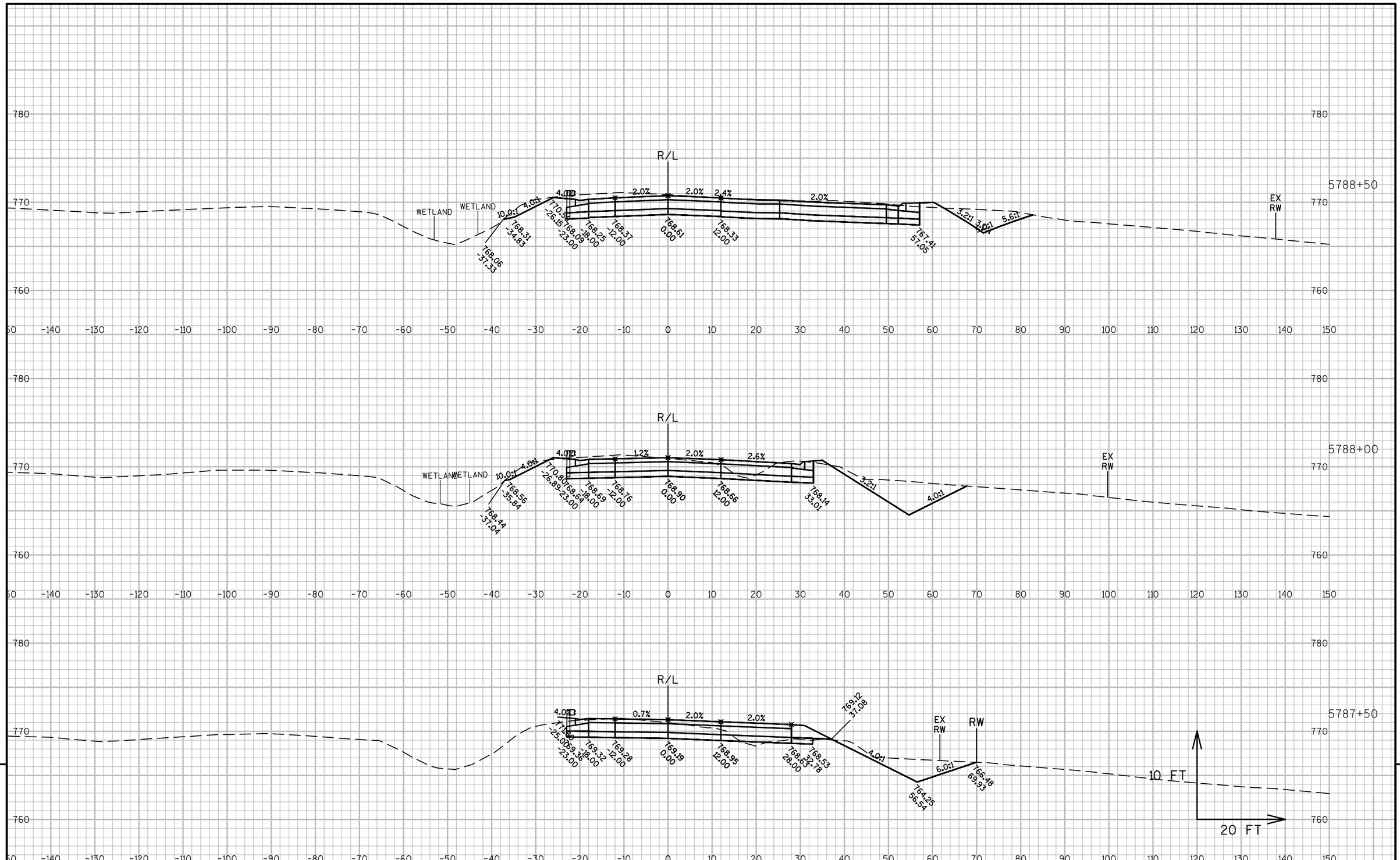
PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 286	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201_XS_EAST FRONTAGE ROAD_NEFR.DWG
LAYOUT NAME - 090201_XS_EAST FRONTAGE ROAD_NEFR - NEFR - (23)

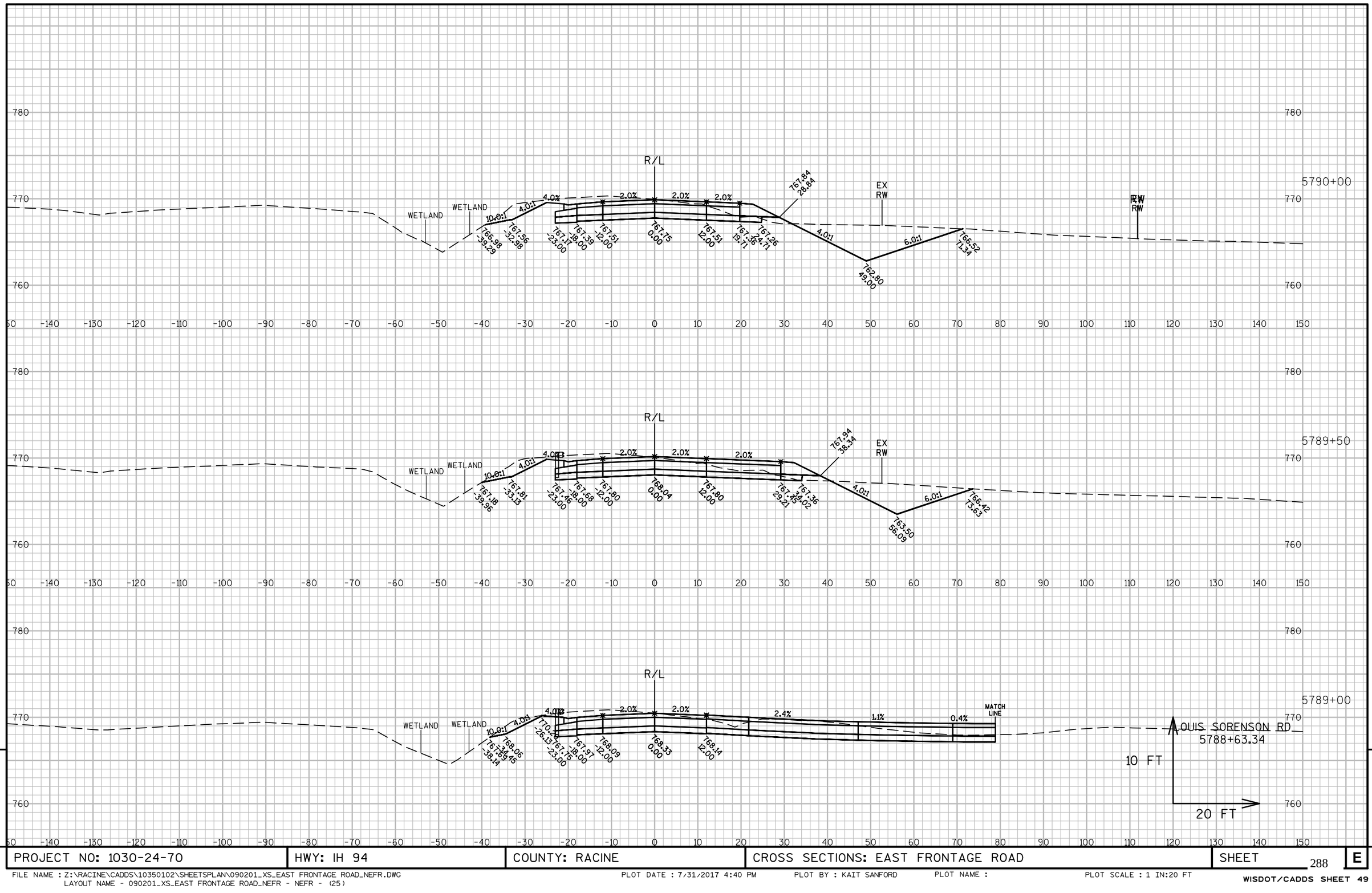
PLOT DATE : 7/31/2017 4:40 PM PLOT BY : KAIT SANFORD PLOT NAME : PLOT SCALE : 1 IN:20 FT



PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 287	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201_XS_EAST FRONTAGE ROAD_NEFR.DWG
LAYOUT NAME - 090201_XS_EAST FRONTAGE ROAD_NEFR - NEFR - (24)

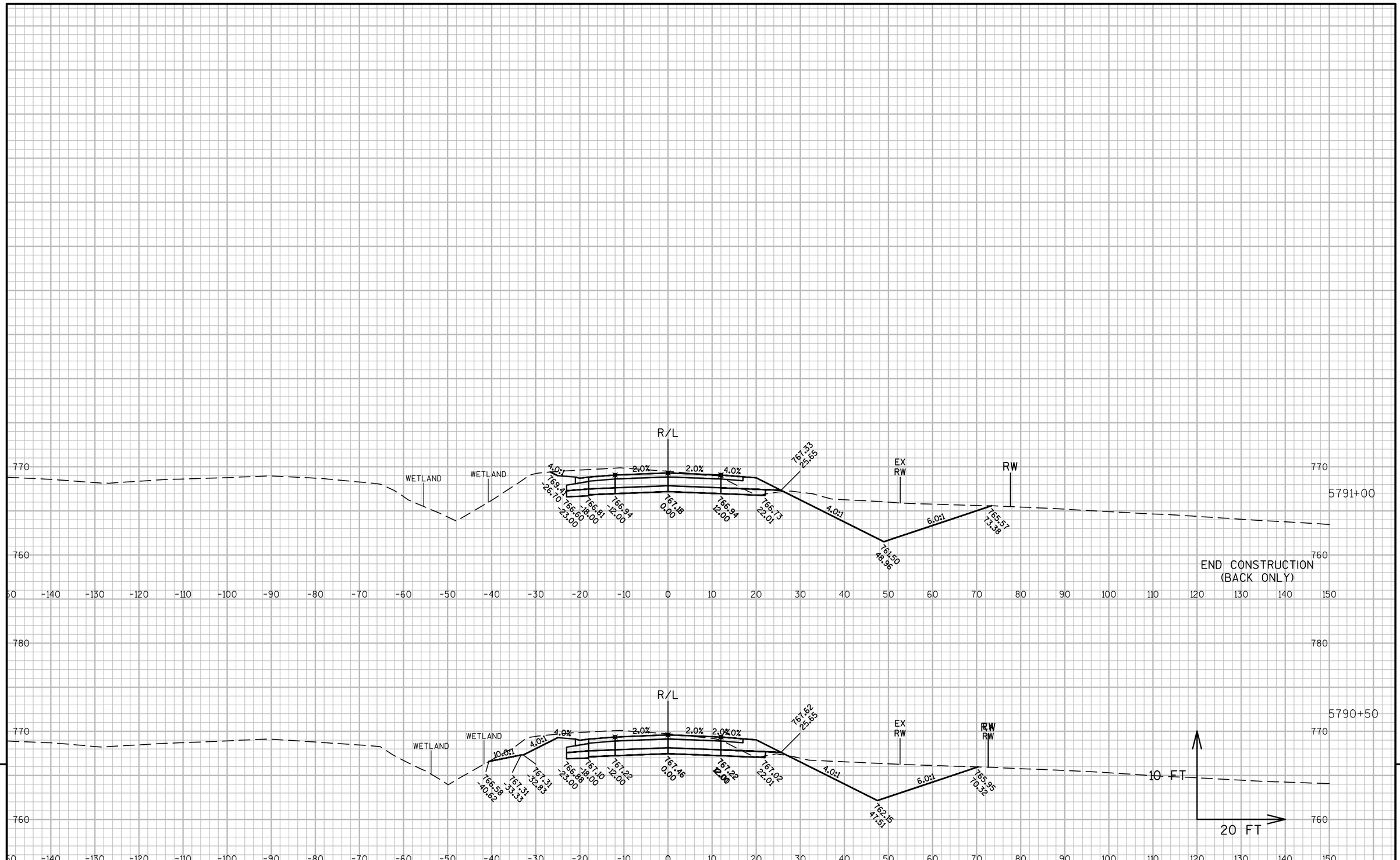
PLOT DATE : 7/31/2017 4:40 PM PLOT BY : KAIT SANFORD PLOT NAME : PLOT SCALE : 1 IN:20 FT



PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 288	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201_XS_EAST FRONTAGE ROAD_NEFR.DWG
LAYOUT NAME - 090201_XS_EAST FRONTAGE ROAD_NEFR - NEFR - (25)

PLOT DATE : 7/31/2017 4:40 PM PLOT BY : KAIT SANFORD PLOT NAME : PLOT SCALE : 1 IN:20 FT



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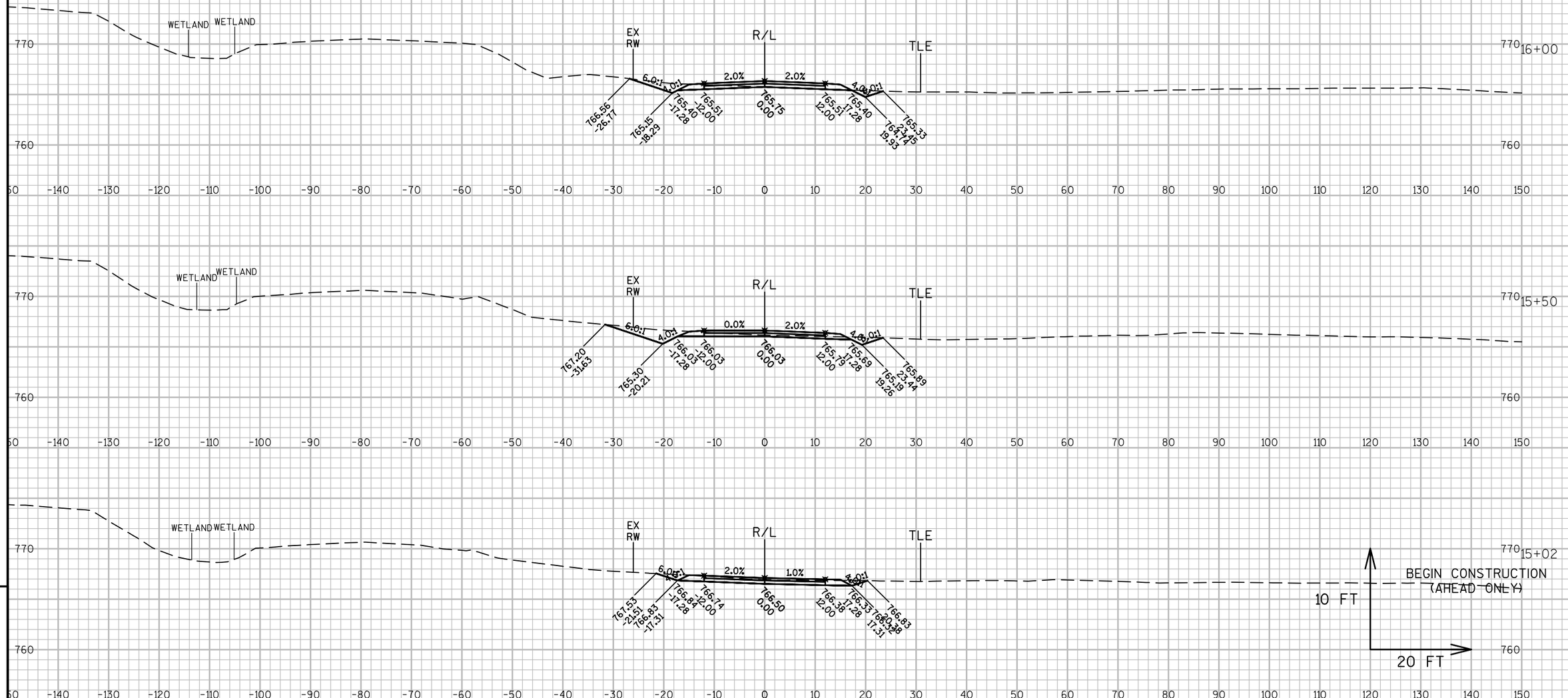
PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 289	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201_XS_EAST FRONTAGE ROAD_NEFR.DWG
LAYOUT NAME - 090201_XS_EAST FRONTAGE ROAD_NEFR - NEFR - (26)

PLOT DATE : 7/31/2017 4:40 PM PLOT BY : KAIT SANFORD PLOT NAME : PLOT SCALE : 1 IN:20 FT



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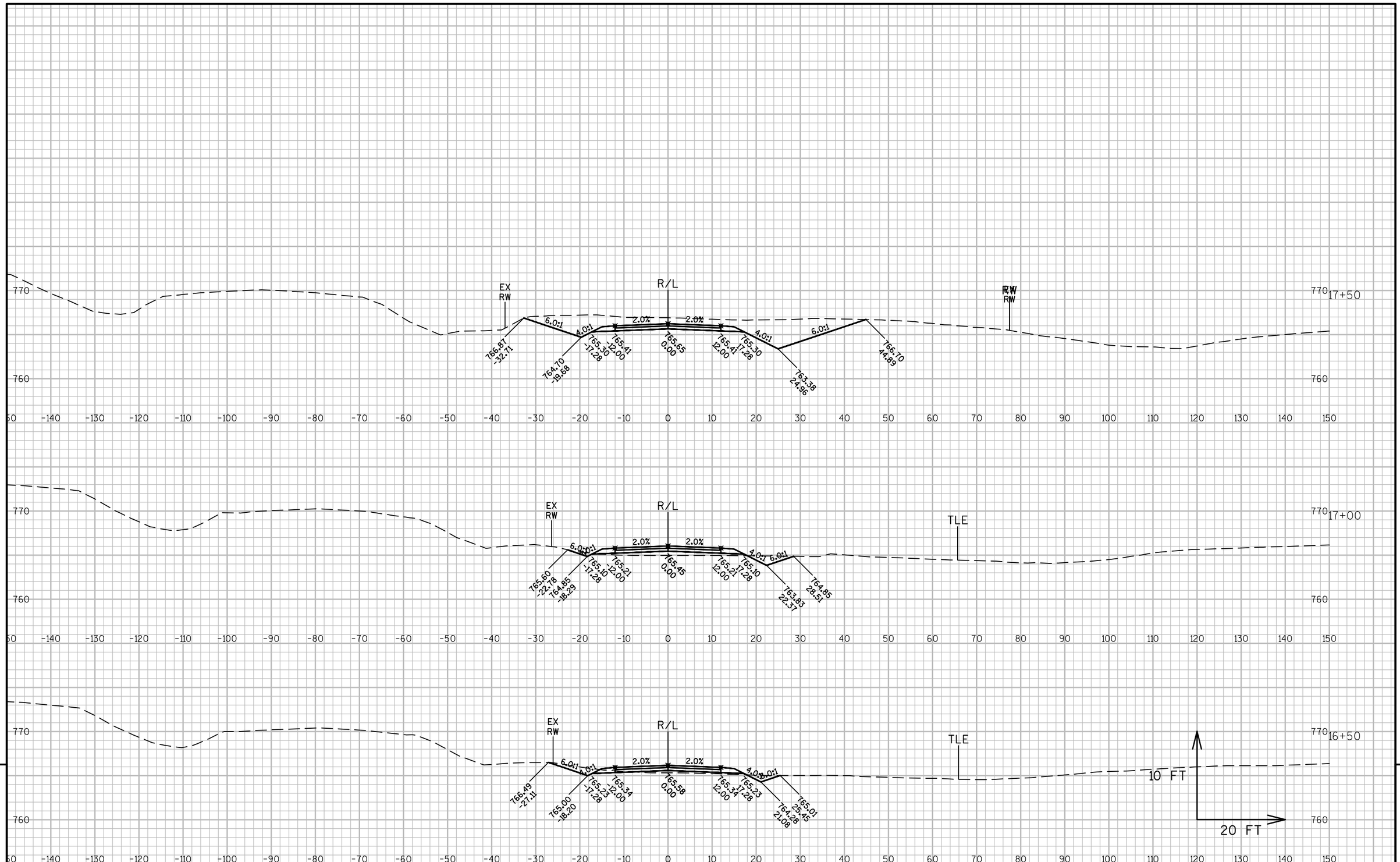
PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: PRIVATE DRIVEWAY A	SHEET 290	E

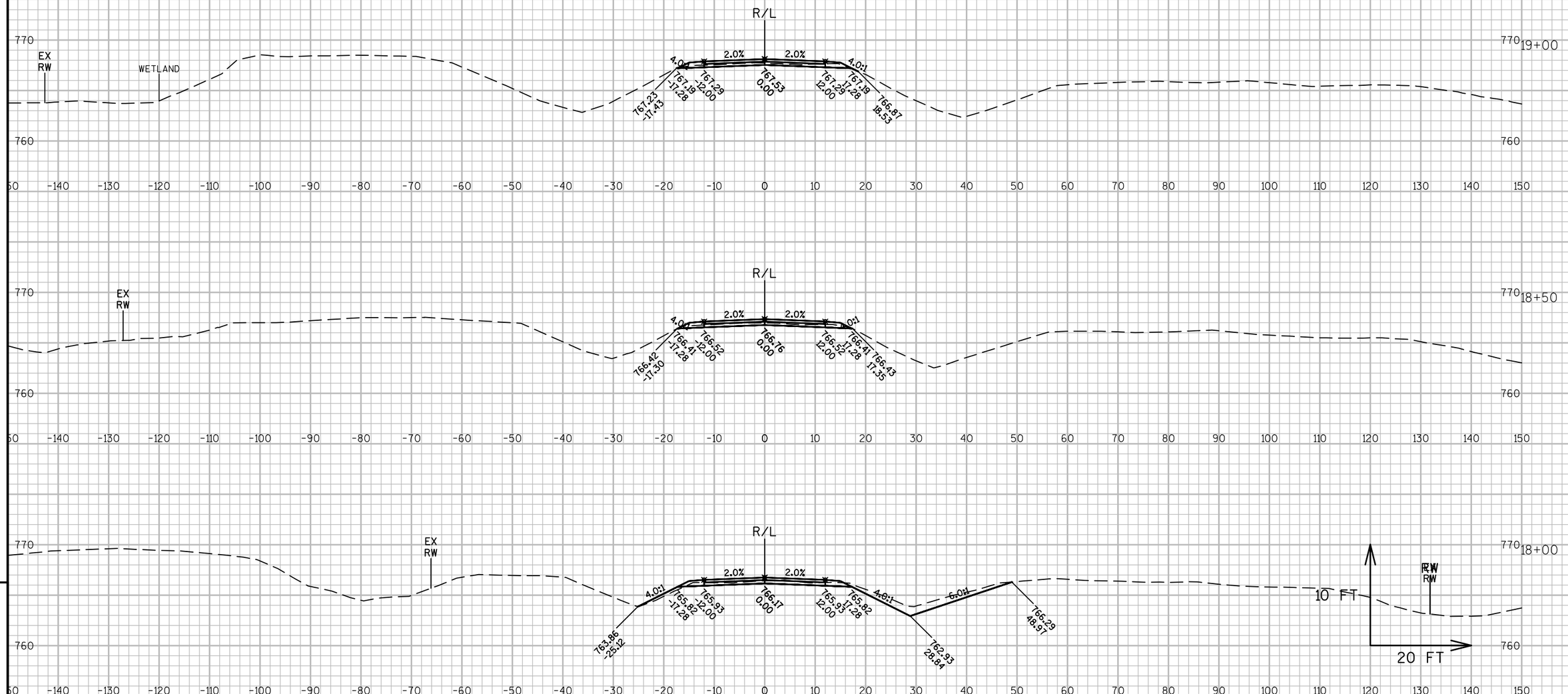
FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201_XS_ACCESS ROAD A_EFR.DWG
LAYOUT NAME - 090201_XS_ACCESS ROAD A_EFR - ACCESS RD A - (1)

PLOT DATE : 7/28/2017 9:32 AM PLOT BY : KAIT SANFORD PLOT NAME : PLOT SCALE : 1 IN:20 FT



PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: PRIVATE DRIVEWAY A	SHEET 291	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201_XS_ACCESS ROAD A_EFR.DWG
LAYOUT NAME - 090201_XS_ACCESS ROAD A_EFR - ACCESS RD A - (2)
PLOT DATE : 7/28/2017 9:32 AM PLOT BY : KAIT SANFORD PLOT NAME : PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49



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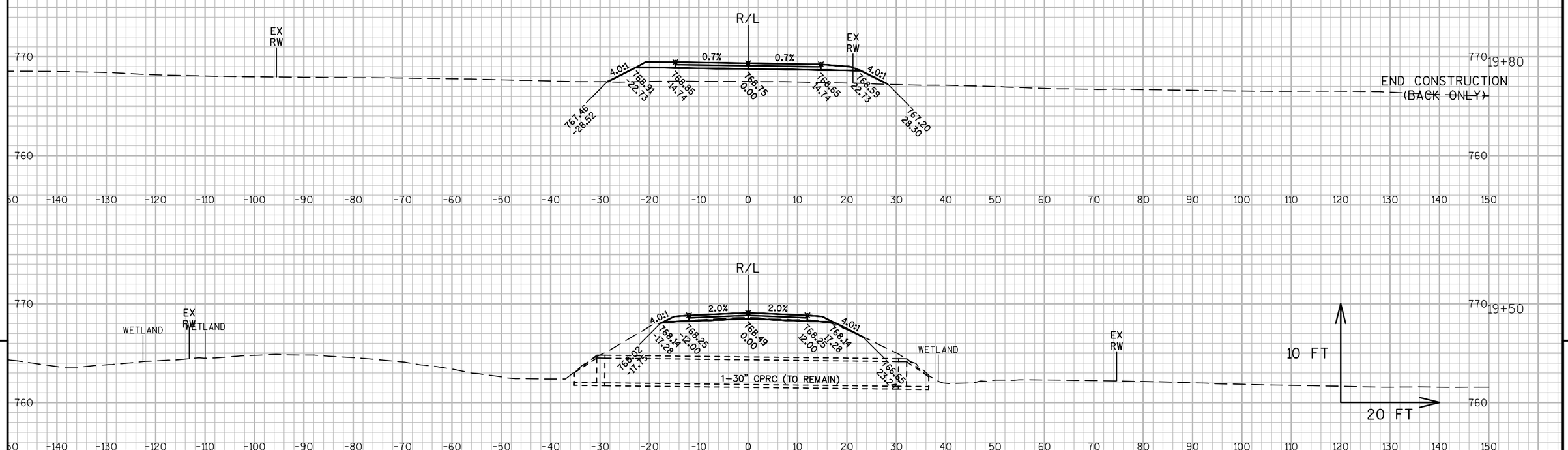
PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: PRIVATE DRIVEWAY A	SHEET 292 E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201_XS_ACCESS ROAD A_EFR.DWG
LAYOUT NAME - 090201_XS_ACCESS ROAD A_EFR - ACCESS RD A - (3)

PLOT DATE : 7/28/2017 9:32 AM PLOT BY : KAIT SANFORD PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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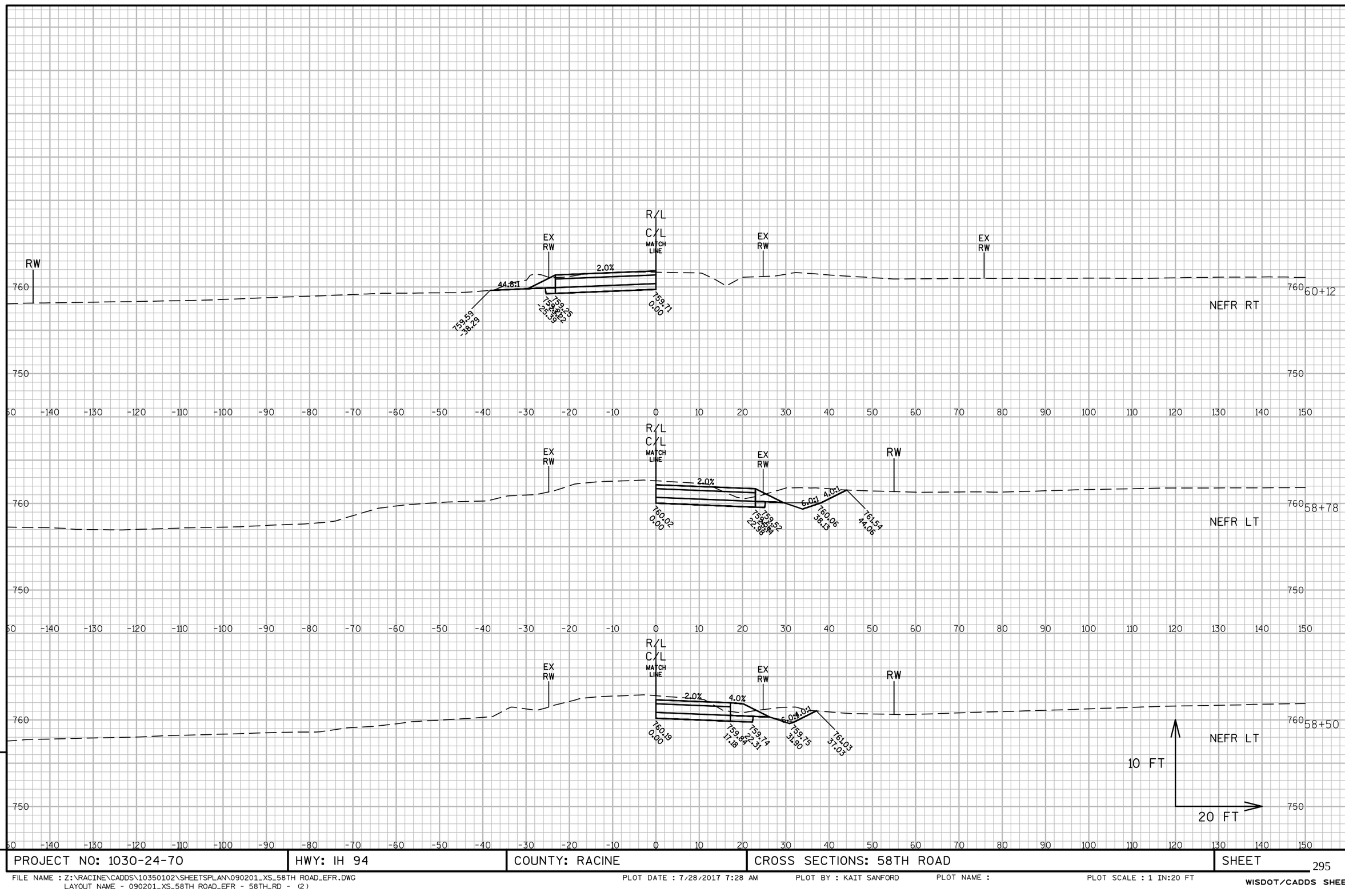
PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: PRIVATE DRIVEWAY A	SHEET 293 E

PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: 58TH ROAD	SHEET 294	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201_XS_58TH ROAD_EFR.DWG
LAYOUT NAME - 090201_XS_58TH ROAD_EFR - 58TH_RD - (1)

PLOT DATE : 7/28/2017 7:28 AM PLOT BY : KAIT SANFORD PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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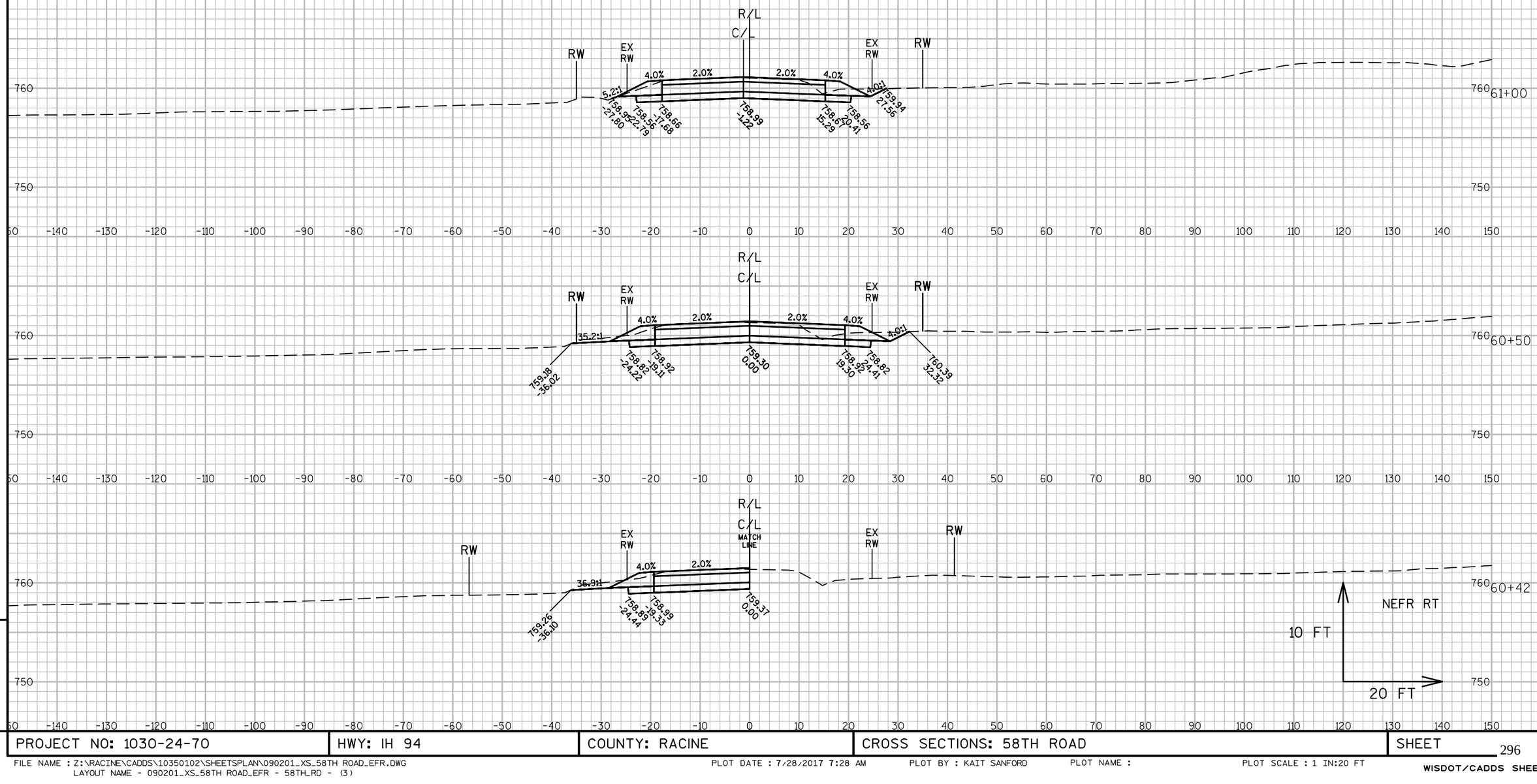
PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: 58TH ROAD	SHEET 295	E

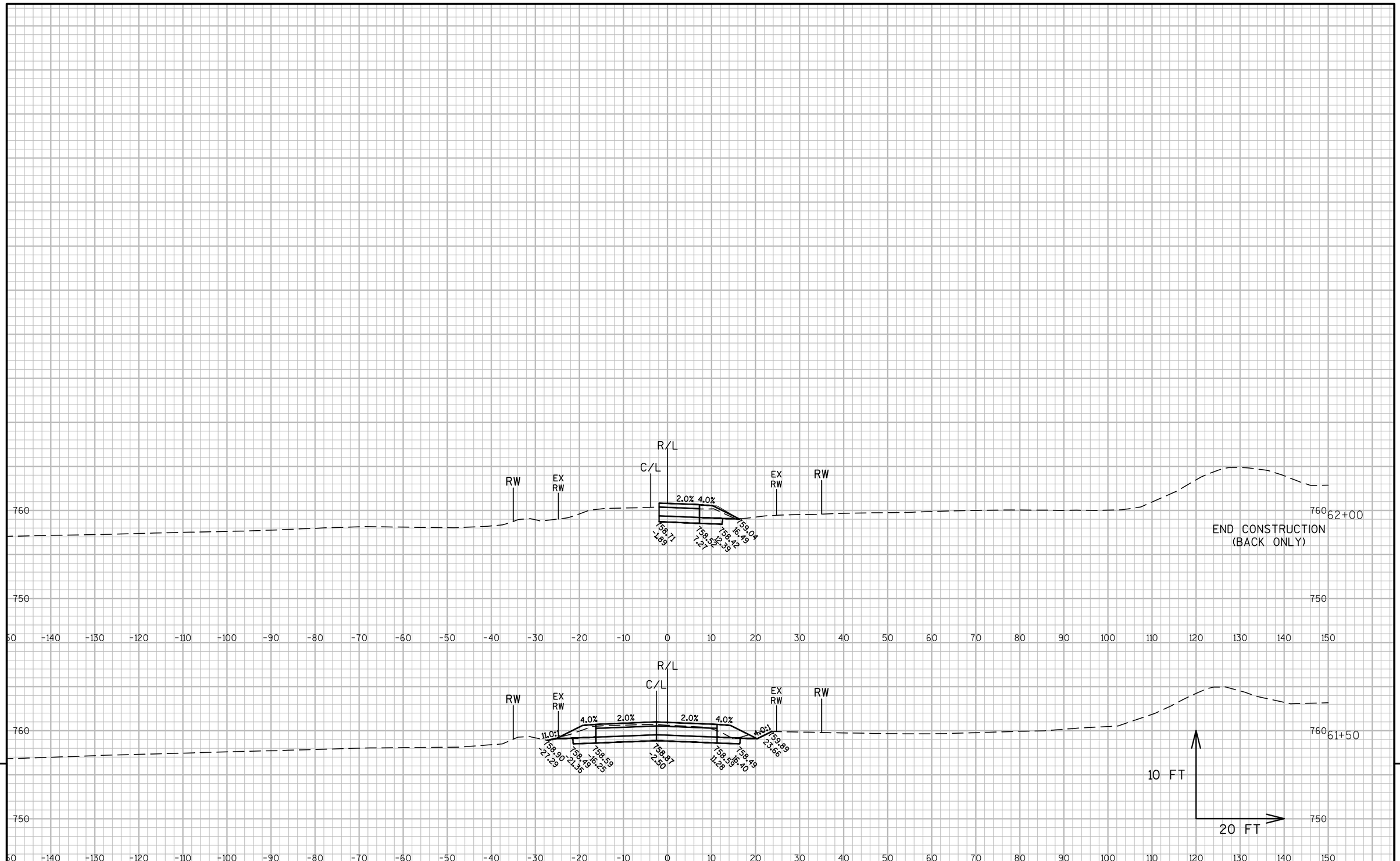
FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201_XS_58TH ROAD_EFR.DWG
LAYOUT NAME - 090201_XS_58TH ROAD_EFR - 58TH_RD - (2)

PLOT DATE : 7/28/2017 7:28 AM PLOT BY : KAIT SANFORD PLOT NAME : PLOT SCALE : 1 IN:20 FT



9

PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: 58TH ROAD	SHEET 296	E

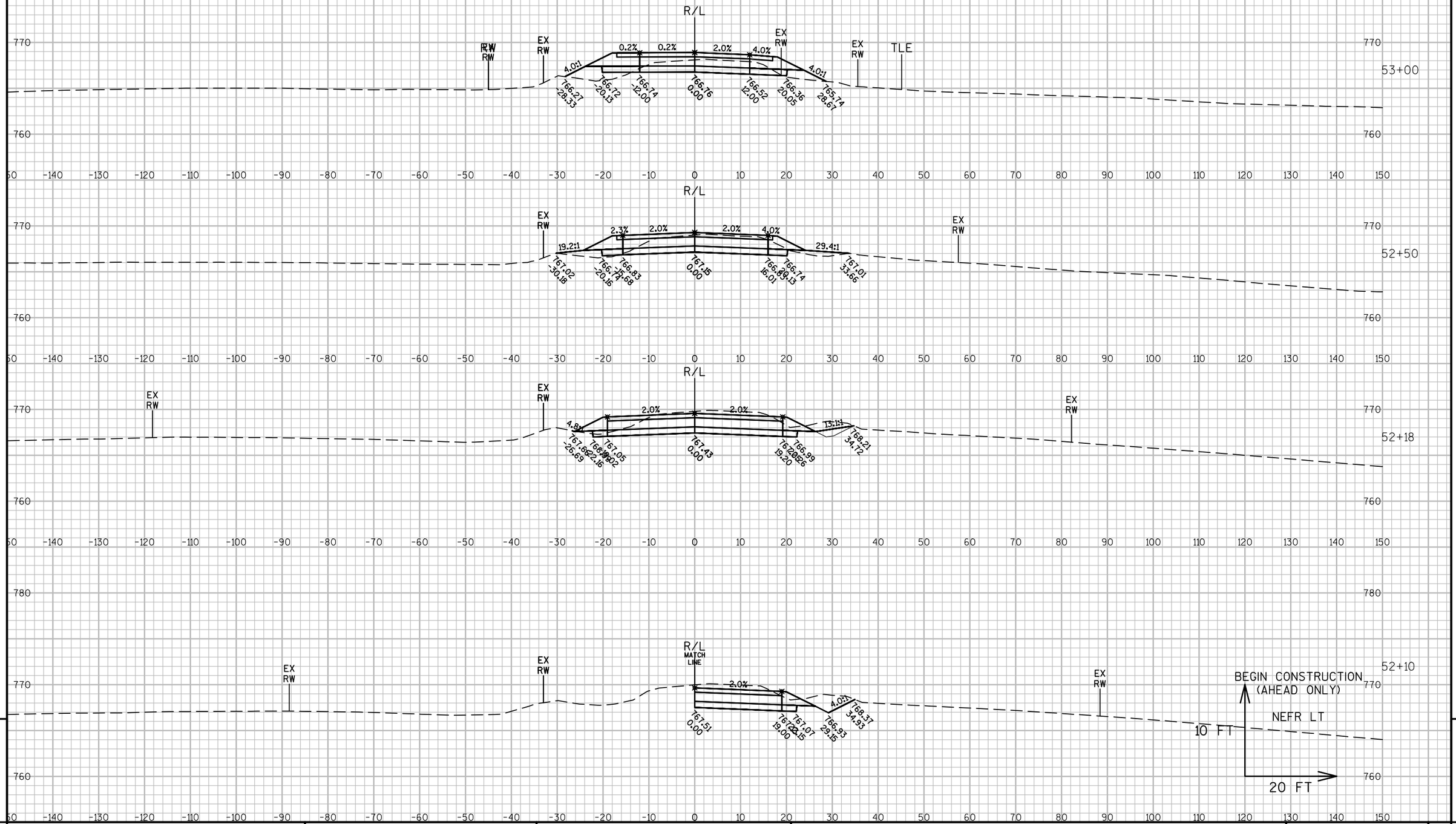


9

9

PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: 58TH ROAD	SHEET 297	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201_XS_58TH ROAD_EFR.DWG
LAYOUT NAME - 090201_XS_58TH ROAD_EFR - 58TH_RD - (4)
PLOT DATE : 7/28/2017 7:28 AM PLOT BY : KAIT SANFORD PLOT NAME : PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49

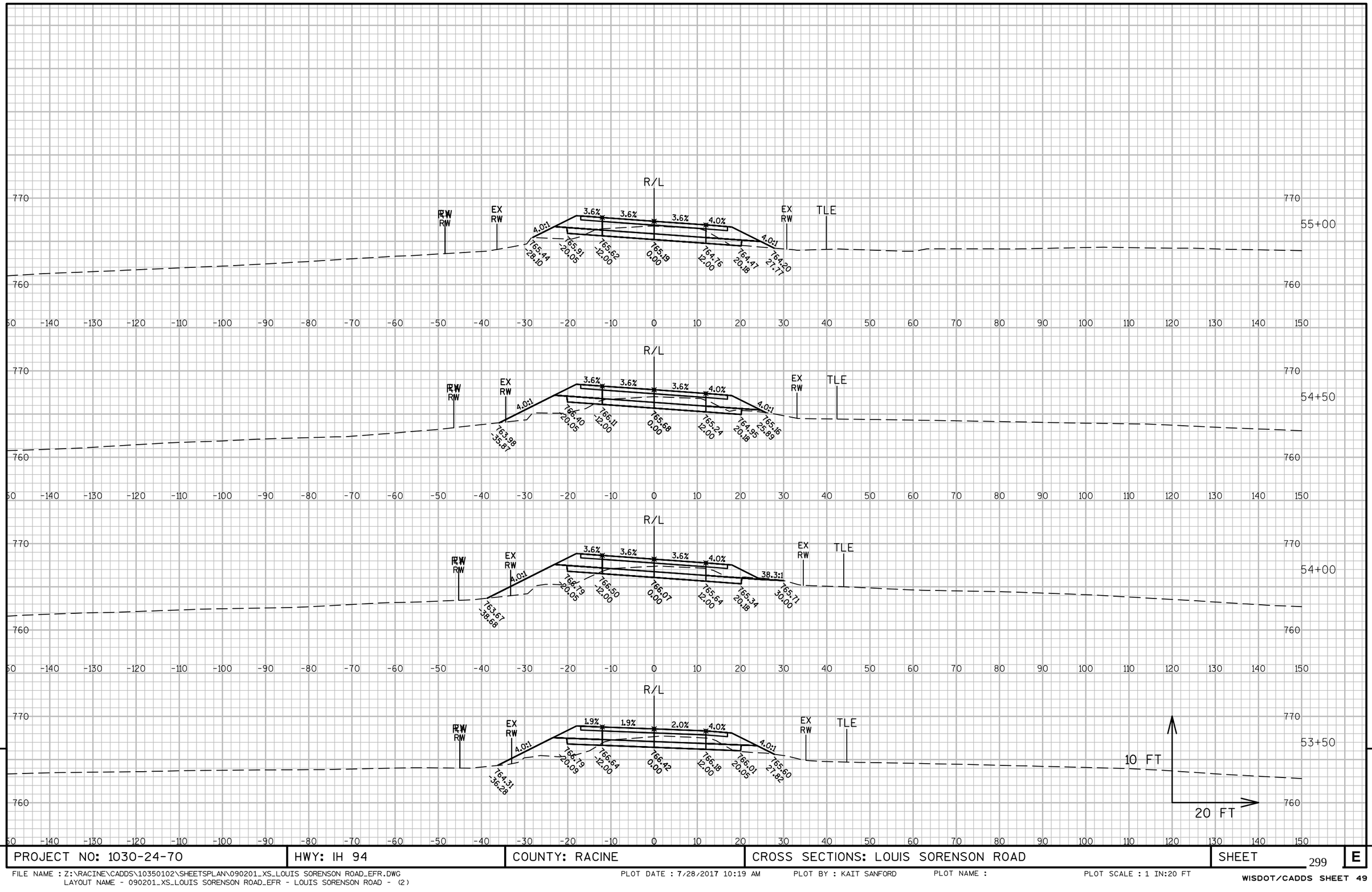


PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: LOUIS SORENSON ROAD	SHEET 298 E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201_XS_LOUIS SORENSON ROAD_EFR.DWG
LAYOUT NAME - 090201_XS_LOUIS SORENSON ROAD_EFR - LOUIS SORENSON ROAD - (1)

PLOT DATE : 7/28/2017 10:19 AM PLOT BY : KAIT SANFORD PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



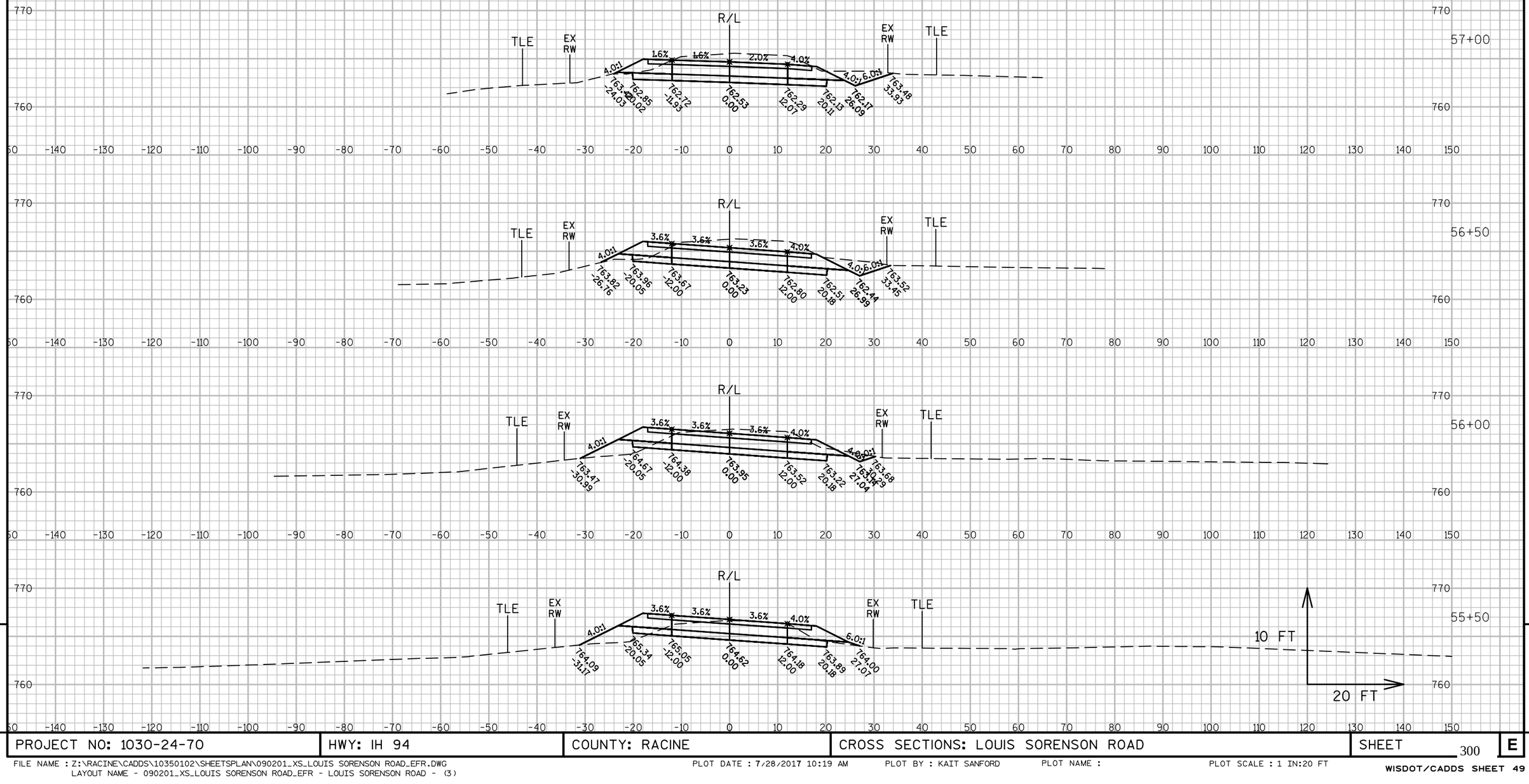
9

9

PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: LOUIS SORENSON ROAD	SHEET 299	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201_XS_LOUIS SORENSON ROAD_EFR.DWG
LAYOUT NAME - 090201_XS_LOUIS SORENSON ROAD_EFR - LOUIS SORENSON ROAD - (2)

PLOT DATE : 7/28/2017 10:19 AM PLOT BY : KAIT SANFORD PLOT NAME : PLOT SCALE : 1 IN:20 FT



PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: LOUIS SORENSON ROAD	SHEET 300	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201_XS_LOUIS SORENSON ROAD_EFR.DWG
LAYOUT NAME - 090201_XS_LOUIS SORENSON ROAD_EFR - LOUIS SORENSON ROAD - (3)

PLOT DATE : 7/28/2017 10:19 AM PLOT BY : KAIT SANFORD PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

9

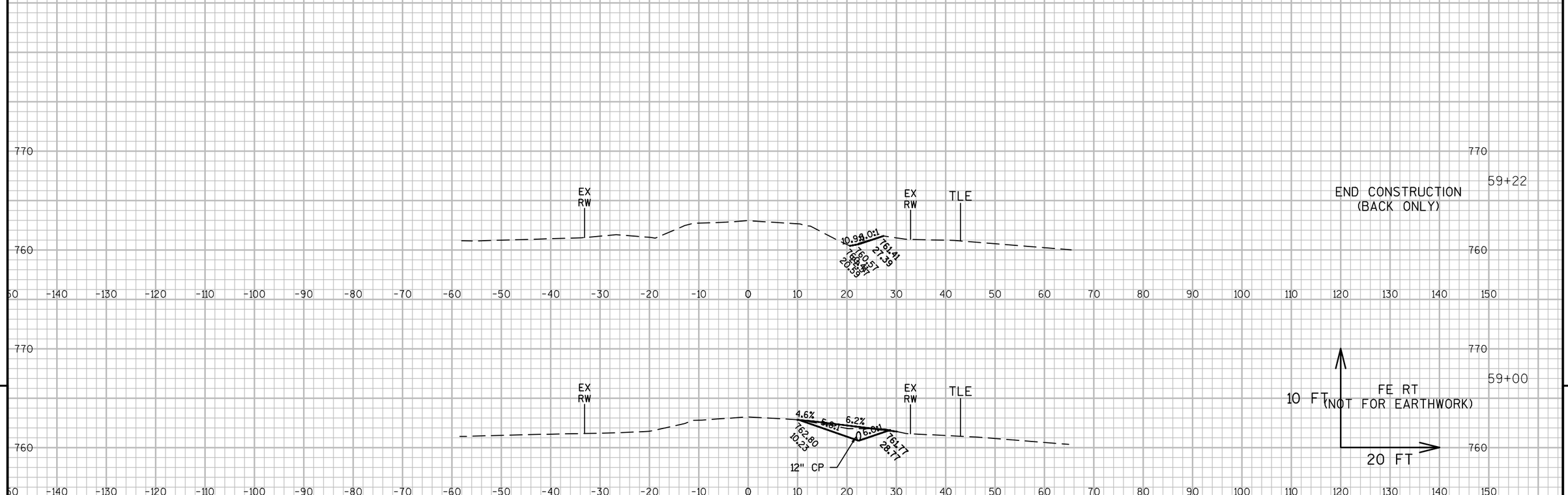
9

PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: LOUIS SORENSON ROAD	SHEET 301	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201_XS_LOUIS SORENSON ROAD_EFR.DWG
LAYOUT NAME - 090201_XS_LOUIS SORENSON ROAD_EFR - LOUIS SORENSON ROAD - (4)

PLOT DATE : 7/28/2017 10:19 AM PLOT BY : KAIT SANFORD PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



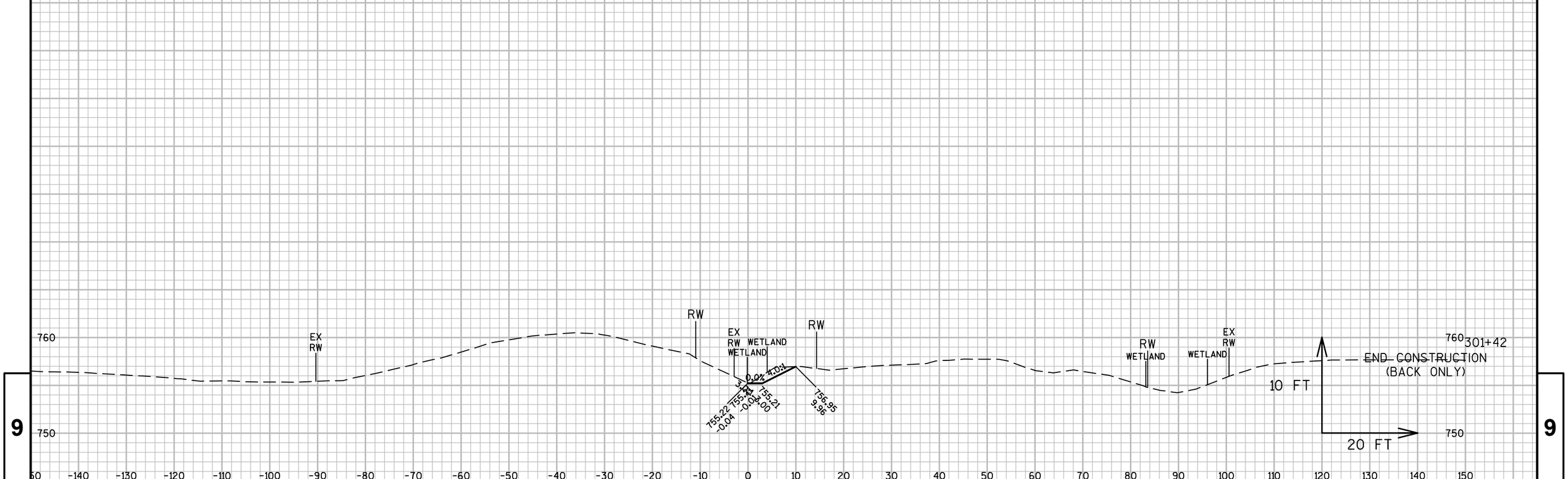
9

9

PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: LOUIS SORENSON ROAD	SHEET 302 E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201_XS_LOUIS SORENSON ROAD_EFR.DWG
LAYOUT NAME - 090201_XS_LOUIS SORENSON ROAD_EFR - LOUIS SORENSON ROAD - (5)

PLOT DATE : 7/28/2017 10:19 AM PLOT BY : KAIT SANFORD PLOT NAME : PLOT SCALE : 1 IN:20 FT



9

9

PROJECT NO: 1030-24-70	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: SWALE 3	SHEET 303	E

Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

http://www.dot.wisconsin.gov

WKE

NOV 2017

PROJECT ID: 1030-24-74

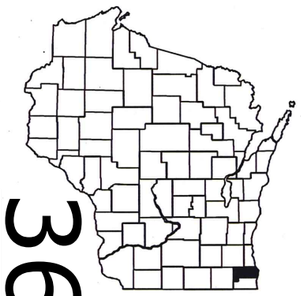
WITH: 1030-24-70/77/78, 1033-02-77/78

COUNTY: RACINE

ORDER OF SHEETS

Section No.	1	Title
Section No.	2	Typical Sections and Details (Includes Erosion Control)
Section No.	3	Estimate of Quantities
Section No.	3	Miscellaneous Quantities
Section No.	4	Right of Way Plat
Section No.	5	Plan and Profile
Section No.	6	Standard Detail Drawings
Section No.	7	Sign Plates
~~Section No.~~	~~8~~	~~Structure Plans~~
Section No.	9	Computer Earthwork Data
Section No.	9	Cross Sections

TOTAL SHEETS = 340



36

N

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

N-S FREEWAY STH 11 INTERCHANGE

WEST FRONTAGE RD & 58TH RD

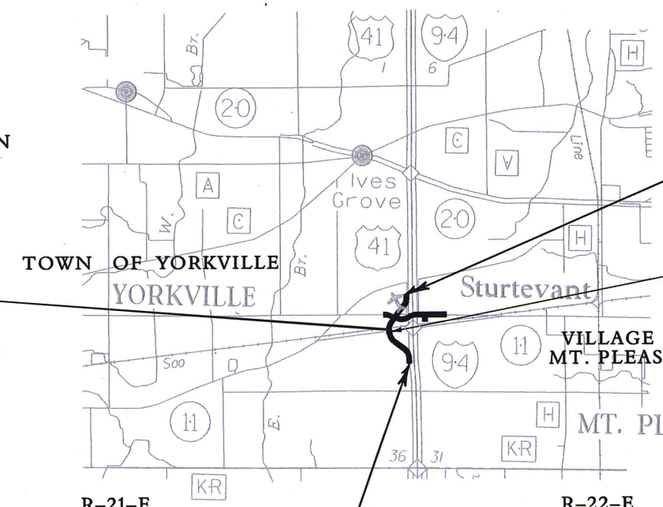
IH-94

RACINE COUNTY

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1030-24-74	WISC 2017608	1

STATE PROJECT NUMBER

1030-24-74



END PROJECT 1030-24-74
STA. 4785+00

STATION EQUATION
STA. 4750+44.11 WFR =
STA. 2758+13.72 WFR

STA. 2758+00 WFR TO STA. 4751+07 WFR
EXCEPTION TO NET CENTERLINE LENGTH

BEGIN PROJECT 1030-24-74
STA. 2737+00
Y=172958.43
X=593934.31

DESIGN DESIGNATION WEST FRONTAGE ROAD

A.A.D.T.	2011	= 1,600
A.A.D.T.	2038	= 2,100
D.H.V.		= 192
D.D.		= .59 SB/.41 NB
T.		= 9.8%
DESIGN SPEED		= 40/50 MPH
ESALS		= 744,600

CONVENTIONAL SYMBOLS

PLAN

- CORPORATE LIMITS
- PROPERTY LINE
- LOT LINE
- LIMITED HIGHWAY EASEMENT
- EXISTING RIGHT OF WAY
- PROPOSED OR NEW R/W LINE
- SLOPE INTERCEPT
- REFERENCE LINE
- EXISTING CULVERT
- PROPOSED CULVERT (Box or Pipe)
- COMBUSTIBLE FLUIDS (CAUTION)
- MARSH AREA
- WOODED OR SHRUB AREA

PROFILE

- GRADE LINE
- ORIGINAL GROUND
- MARSH OR ROCK PROFILE (To be noted as such) (ROCK)
- SPECIAL DITCH (LABEL)
- GRADE ELEVATION (95.36)
- CULVERT (Profile View)

UTILITIES

- ELECTRIC (E)
- FIBER OPTIC (FO)
- GAS (G)
- SANITARY SEWER (SAN)
- STORM SEWER (SS)
- TELEPHONE (T)
- WATER (W)
- UTILITY PEDESTAL
- POWER POLE
- TELEPHONE POLE

LAYOUT
SCALE 0 1 MI.

TOTAL NET LENGTH OF CENTERLINE = 1.040 MI.

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), RACINE COUNTY, NAD 1983(97)

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988(91), NAVD88(91)

ORIGINAL PLANS PREPARED BY

DAAR ENGINEERING, INC.
www.daarengineering.com
Milwaukee, WI 53212
414-225-9817

WISCONSIN — ANDREW J. SMIEJA E-31137 WAUKESHA, WI — PROFESSIONAL ENGINEER

8/1/17 (Date) (Signature)

ORIGINAL PLANS PREPARED BY

emcs inc
1300 W. Canal Street, Suite 200
Milwaukee, WI 53233
414.347.1607 Fax 414.347.1347

WISCONSIN — BRIAN J. WILSON E-34330-6 MILWAUKEE WI — PROFESSIONAL ENGINEER

8/1/17 (Date) (Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	WISDOT/EMCS
Designer	EMCS/DAAR
Project Manager	FRANK PRITZLAFF
Regional Examiner	
Regional Supervisor	WAFA ELQAQ
C.O. Examiner	

APPROVED FOR THE DEPARTMENT

DATE: 7/31/17 (Signature)

E

UTILITY CONTACTS

AT&T CORPORATION
C/O MR. KEN NINE
JMC ENGINEERS & ASSOCIATES, INC.
110 NORTH MAIN STREET
CULVER, IN 46511
PHONE: (574) 842-8830
CELL: (574) 904-6336
kennethnine@att.net

AT&T WISCONSIN
MR. MARK EDER
2005 PEWAUKEE RD
WAUKESHA, WI 53188
PHONE: (262) 896-7434
me1754@att.com

CHARTER COMMUNICATIONS
MR. STEVE CRAMER
1320 N. MARTIN LUTHER KING JR. DRIVE
MILWAUKEE, WI 53212
PHONE: (414) 277-4045
CELL: (414) 688-2385
steve.cramer@charter.com
wis.engineering@charter.com

LEVEL 3 COMMUNICATIONS
MR. BRAHIM GADDOUR
OSP ENGINEERING DEPT.
3235 INTERTECH DRIVE, SUITE 600
BROOKFIELD, WI 53045
PHONE: (414) 908-1027
CELL: (414) 704-1026
gaddour.brahim@level3.com
relo@level3 com

WISDOT STOC
MR. JEFFREY MADSON
433 W ST. PAUL AVE, SUITE 300
MILWAUKEE, WI 53203
PHONE: (414) 225-3723
jeffrey.madson@dot.wi.gov

WE ENERGIES - ELECTRIC
SEND ALL CORRESPONDENCE TO:
MR. LATROY BRUMFIELD
333 W. EVERETT STREET - A299
MILWAUKEE, WI 53203
PHONE: (414) 221-5617
latroy.brumfield@we-energies.com

CONSTRUCTION FIELD CONTACT:
MR. DAN TOOMEY
500 S. 116TH STREET
WEST ALLIS, WI 53214
PHONE: (414) 944-5695
dan.toomey@we-energies.com

WE ENERGIES - GAS
SEND ALL CORRESPONDENCE TO:
MR. LATROY BRUMFIELD
333 W. EVERETT STREET - A299
MILWAUKEE, WI 53203
PHONE: (414) 221-5617
latroy.brumfield@we-energies.com

CONSTRUCTION FIELD CONTACT:
MR. DAN TOOMEY
500 S. 116TH STREET
WEST ALLIS, WI 53214
PHONE: (414) 944-5695
dan.toomey@we-energies.com

WISDOT SIGNALS
MR. JOHN HAUG
141 NW BARSTOW STREET
WAUKESHA, WI 53187
PHONE: (262) 521-5356
john.haug@dot.wi.gov

ELECTRICAL FIELD UNIT:
935 S. 60TH STREET
WEST ALLIS, WI 53214
PHONE: (414) 266-1170

TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN

WIS. STATUTE 182.0175 (1974) REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE.

DIGGERS HOTLINE

Call 811 3 Work Days Before You Dig
or Toll Free (800) 242-8511
Hearing Impaired TDD (800) 542-2289
www.DiggersHotline.com

ORDER OF SECTION 2 DETAIL SHEETS

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
REMOVALS
PLAN DETAILS
EROSION CONTROL
STORM SEWER
EXISTING AND PERMANENT SIGNING
SOLAR FLASHING BEACONS
PAVEMENT MARKING
TRAFFIC CONTROL & STAGING
DETOUR ROUTE
FENCING
ALIGNMENT LAYOUT

STATE AGENCIES

WISCONSIN DEPARTMENT OF TRANSPORTATION
MS. LACI KAZAN - ENVIRONMENTAL ANALYST AND REVIEW SPECIALIST
141 NW BARSTOW STREET
WAUKESHA, WI 53187-0798
CELL: (414) 322-1429
laci.kazan@dot.wi.gov

WISCONSIN DEPARTMENT OF TRANSPORTATION
MR. GREG BERRY - UTILITY COORDINATOR
141 NW BARSTOW STREET
WAUKESHA, WI 53187-0798
CELL: (414) 750-7828
gregory.berry@dot.wi.gov

WISCONSIN DEPARTMENT OF NATURAL RESOURCES
MS. KRISTINA BETZHOLD
ENVIRONMENTAL ANALYST AND REVIEW SPECIALIST
2300 N. DR. MARTIN LUTER KING JR. DRIVE
MILWAUKEE, WI 53212
PHONE: (414) 507-4946
KRISTINA.BETZHOLD@WISCONSIN.GOV

WISCONSIN DEPARTMENT OF TRANSPORTATION
MR. FRANK PRITZLAFF - PROJECT MANAGER
141 NW BARSTOW STREET
WAUKESHA, WI 53187-0798
PHONE: (262) 548-5683
frank.pritzlaff@dot.wi.gov

OTHER AGENCIES

CANADIAN PACIFIC RAILWAY CO.
MR. JIM KRIEGER
501 MARQUETTE AVENUE, SUITE 635
MINNEAPOLIS, MN 55402
PHONE: (612) 904-5994

SOUTHEASTERN WISCONSIN REGIONAL PLANNING COMMISSION
MR. JOHN WASHBURN
W239 N1812 ROCKWOOD DRIVE
P.O. BOX 1607
WAUKESHA, WI 53187-1607
PHONE: (262) 953-4295
jwashburn@sewrpc.org

VILLAGE OF MOUNT PLEASANT
MR. MARK BENISH
8700 CAMPUS DRIVE
MOUNT PLEASANT, WI 53406
PHONE: (262) 664-7844
mbenish@mtpleasantwi.gov

SYLVANIA AIRPORT
AERIS AVIATION, LLC.
2624 SOUTH SYLVANIA AVENUE
STURTEVANT, WI 53177
PHONE: (888) 882-3747
fly@aerosaviation.com

RACINE COUNTY DPW
MR. NATHAN PLUNKETT
14200 WASHINGTON AVE
STURTEVANT, WI 53177
PHONE: (262) 886-8442
nathan.plunkett@racinecounty.com

TOWN OF YORKVILLE
MR. MICHAEL MCKINNEY
925 15TH AVENUE
UNION GROVE, WI 53182
PHONE: (262) 878-2123
michael@townofyorkville.com

2

GENERAL NOTES

NO TREES OR SHRUBS SHALL BE REMOVED WITHOUT APPROVAL OF THE ENGINEER.

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE AND AFFECTED UTILITIES PRIOR TO THE START OF WORK. ANY LOCAL MUNICIPAL UTILITY WHICH IS NOT A MEMBER OF THE DIGGERS HOTLINE MUST BE CONTACTED SEPARATELY.

ALL HOLES OR OPENINGS BELOW SUBGRADE RESULTING FROM ABANDONMENT OR REMOVAL OF EXISTING STRUCTURES SHALL BE FILLED WITH GRANULAR BACKFILL.

WHEN THE QUANTITY OF HMA PAVEMENT OR BASE AGGREGATE IS MEASURED FOR PAYMENT BY THE TON, THE DEPTH OR THICKNESS OF THE LAYER SHOWN ON THE PLAN IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.

INLET AND DISCHARGE ELEVATIONS FOR DRAINAGE STRUCTURES SHOWN ON THE PLAN MAY BE ADJUSTED BY THE ENGINEER TO FIT FIELD CONDITIONS

CURB AND GUTTER GRADES ARE GIVEN TO THE FLANGE. CURB AND GUTTER RADII ARE MEASURED TO THE FLANGE.

EXISTING DRIVEWAYS AND FIELD ENTRANCES SHALL BE RESTORED IN KIND AS DIRECTED BY THE ENGINEER IN THE FIELD AND AT THE LOCATION DETERMINED BY THE ENGINEER.

BROKEN CONCRETE CONTAINING RE-BAR SHALL NOT BE USED AS RIPRAP.

CROSS SECTIONS SHOWN INCLUDE THE THICKNESS OF TOPSOIL WHERE REQUIRED. TOPSOIL SHALL BE REPLACED WITH 4-INCH TYPICAL DEPTH.

TRAFFIC CONTROL DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

USE EROSION MAT URBAN CLASS I TYPE B ADJACENT TO DISTURBED AREAS NEXT TO WETLANDS. DO NOT INSTALL EROSION MAT URBAN CLASS I TYPE B IN WATER.

PRIOR TO ORDERING DRAINAGE PIPES AND STRUCTURES, THE CONTRACTOR SHALL VERIFY RELATED DRAINAGE INFORMATION IN THE PLANS AND PROVIDE DOCUMENTATION TO ENGINEER IN ACCORDANCE WITH THE SPECIFICATIONS.

CONTRACTOR MUST CONTACT THE PROJECT ENGINEER AND THE RACINE COUNTY SURVEYOR, JOHN WASHBURN, AND RACINE COUNTY PUBLIC WORKS DIRECTOR, JULIE ANDERSON, AT LEAST TWO WEEKS PRIOR TO WORK NEAR ANY PUBLIC SURVEY MONUMNET.

ALL ENCROACHMENTS SHOWN IN THE PLAN ARE TO BE REMOVED BY THE PROPERTY OWNER PRIOR TO CONSTRUCTION, UNLESS OTHERWISE NOTED.

THE LOCATIONS OF SELECT SUBBASE AND GEOGRID TYPE SR ARE DEPENDENT ON FIELD CONDITIONS DURING GRADING OPERATIONS. GEOGRID REINFORCEMENT AND FILL MATERIAL SHALL NOT BE PLACED UNTIL AUTHORIZED BY THE ENGINEER OR SOILS ENGINEER.

CONTRACTOR SHALL CONTACT SEWRPC AT LEAST TWO WEEKS PRIOR TO REPLACING SECTION CORNERS.

CONCRETE MEDIAN SLOPED NOSE SHALL BE CONSTRUCTED FOR ALL MEDIAN OPENINGS AT INTERSECTIONS WITH CURB & GUTTER.

FERTILIZER SHALL NOT BE USED WITHIN 20 FEET OF NAVIGABLE WATERWAYS OR WETLANDS.

ASPHALTIC AND CONCRETE SURFACES INCLUDING DRIVEWAYS AND/OR PARKING LOTS SHALL BE SAWCUT AT THE MATCHLINE AS SHOWN ON THE PLAN DETAILS OR AS DIRECTED BY THE ENGINEER.

LOCATIONS OF DRAINTILE ON THE PLAN ARE BASED ON AS-BUILT OR PROPERTY OWNER INTERVIEWS. DRAINTILE EXPLORATION ITEM IS TO BE USED TO VERIFY THE EXACT SIZE AND LOCATION.

ADDRESS NUMBER SIGNS WILL BE RELOCATED BY LOCAL MUNICIPALITIES. CONTACT MUNICIPALITY TWO WEEKS PRIOR TO BEGINNING WORK WHICH MAY DISTURB ADDRESS NUMBER SIGNS.

A CONVERSION FACTOR OF 2.0 TONS/CY IS USED TO ESTIMATE QUANTITIES FOR BASE AGGREGATE DENSE 3/4-INCH AND 1 1/4-INCH.

A CONVERSION FACTOR OF 1.9 TONS/CY IS USED TO ESTIMATE QUANTITIES FOR SELECT SUBBASE MATERIAL.

A CONVERSION FACTOR OF 1.7 TONS/CY IS USED TO ESTIMATE QUANTITIES FOR BREAKER RUN MATERIAL.

A CONVERSION FACTOR OF 115 LB/SY/IN IS USED TO ESTIMATE QUANTITIES FOR HMA PAVEMENT.

ALL TYPES OF HMA PAVEMENT SHALL BE CONSTRUCTED WITH THE FOLLOWING LAYERS AND GRADATIONS:

PAVEMENT TYPE	TOTAL LAYER PAVEMENT THICKNESS	LAYERS
4 LT 58-28 S 3 LT 58-28 S	5½"	2¼" UPPER LAYER 3¼" LOWER LAYER

(APO3)

STANDARD ABBREVIATIONS

AECPRC	APRON ENDWALL CULVERT PIPE REINFORCED CONCRETE
AECPRCHE	APRON ENDWALL CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL
AECPSS	APRON ENDWALL CULVERT PIPE SLOPED SECTION
AEW	APRON END WALL
AGG	AGGREGATE
ASPH	ASPHALT
BAD	BASE AGGREGATE DENSE
B/C	BACK OF CURB
BM	BENCH MARK
C&G	CURB AND GUTTER
C/L	CENTER OR CONSTRUCTION LINE
CONC	CONCRETE
CP	CULVERT PIPE
CPCM	CULVERT PIPE CORRUGATED METAL
CPRC	CULVERT PIPE REINFORCED CONCRETE
CPRCHE	CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL
CSD	CONCRETE SURFACE DRAIN
CY	CUBIC-YARD
D	DEGREE OF CURVE
Δ	DELTA
DISCH	DISCHARGE
DWY	DRIVEWAY
EBS	EXCAVATION BELOW SUBGRADE
EFR	EAST FRONTAGE ROAD
EL	ELEVATION
FE	FIELD ENTRANCE
HMA	HOT MIX ASPHALT
INV	INVERT
L	LENGTH OF CURVE
LHF	LEFT HAND FORWARD
LT	LEFT
MID	MIDDLE OF RADIUS
MIN	MINIMUM
M/L	MATCHLINE
NB	NORTHBOUND
NC	NORMAL CROWN
PAVT	PAVEMENT
PC	POINT-OF CURVE
PCC	POINT OF COMPOUND CURVE
PE	PRIVATE ENTRANCE
PGL	PROFILE GRADE LINE
PI	POINT OF INTERSECTION
PLE	PERMANENT LIMITED EASEMENT
PT	POINT OF TANGENT
R	RADIUS OF CURVE
R/L	REFERENCE LINE
R/W	RIGHT OF WAY
RC	REVERSE CROWN
REQ'D	REQUIRED
RHF	RIGHT HAND FORWARD
RO	RUN OFF LENGTH
RT	RIGHT
SALV	SALVAGED
SB	SOUTHBOUND
SDD	STANDARD DETAIL DRAWING
SE	SUPER ELEVATION
SF	SQUARE FOOT
SSPRC	STORM SEWER PIPE REINFORCED CONCRETE
SSPRCHE	STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL
STA	STATION
SY	SQUARE YARD
T	TANGENT LENGTH
TLE	TEMPORARY LIMITED EASEMENT
TYP	TYPICAL
VCL	VERTICAL CURVE LENGTH
VPC	POINT OF VERTICAL CURVE
VPI	POINT OF VERTICAL INTERSECTION
VPT	POINT OF VERTICAL TANGENT
WFR	WEST FRONTAGE ROAD

2

TOWN OF
YORKVILLE

SYLVANIA
AIRPORT

END PROJECT
I.D. 1030-24-74
STA. 4785+00
= MATCH PROJECT
I.D. 1033-02-78

VILLAGE OF
MOUNT PLEASANT

N

EXISTING WEST FRONTAGE
ROAD TO BE OBLITERATED

END CONSTRUCTION
STA. 79B+80.00

SEE NOTE 1

BEGIN CONSTRUCTION
STA. 34+00

SEE NOTE 2

58TH ROAD

S SYLVANIA AVE

ACCESS ROAD "B"

AVOID ADDITIONAL IMPACTS
TO THE BARNES PRAIRIE

EXISTING WEST FRONTAGE
ROAD TO BE OBLITERATED

END CONSTRUCTION
STA. 57+72.00
MATCH PROJECT
I.D. 1030-24-70

CONSTRUCT SWALE 1

STH 11

SOO LINE RAILROAD CO. D/B/A CANADIAN PACIFIC
(ABANDONED - 2016)

CLEAN EXISTING
CULVERT PIPE

CONSTRUCT
SWALE 2

BEGIN CONSTRUCTION
STA. 74B+21.30

PARK AND RIDE LOT

BARNES PRAIRIE AREA
LIMITS FROM RAIROAD
SOUTH TO STH 11

WEST FRONTAGE ROAD

IH-94

EAST FRONTAGE RD

TOWN OF
YORKVILLE

VILLAGE OF
MOUNT PLEASANT

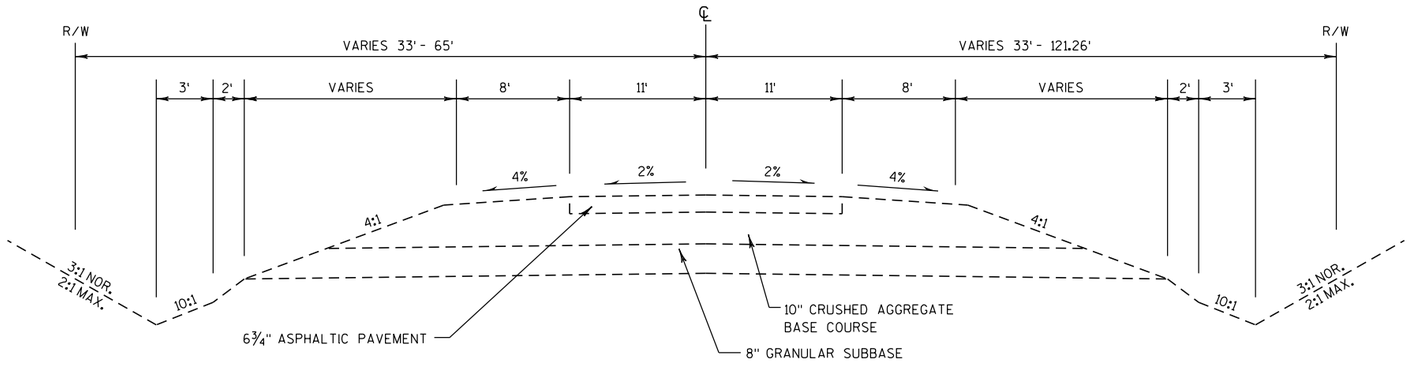
BEGIN PROJECT
I.D. 1030-24-74
STA. 2737+00
= MATCH PROJECT
I.D. 1030-24-78

NOTES:

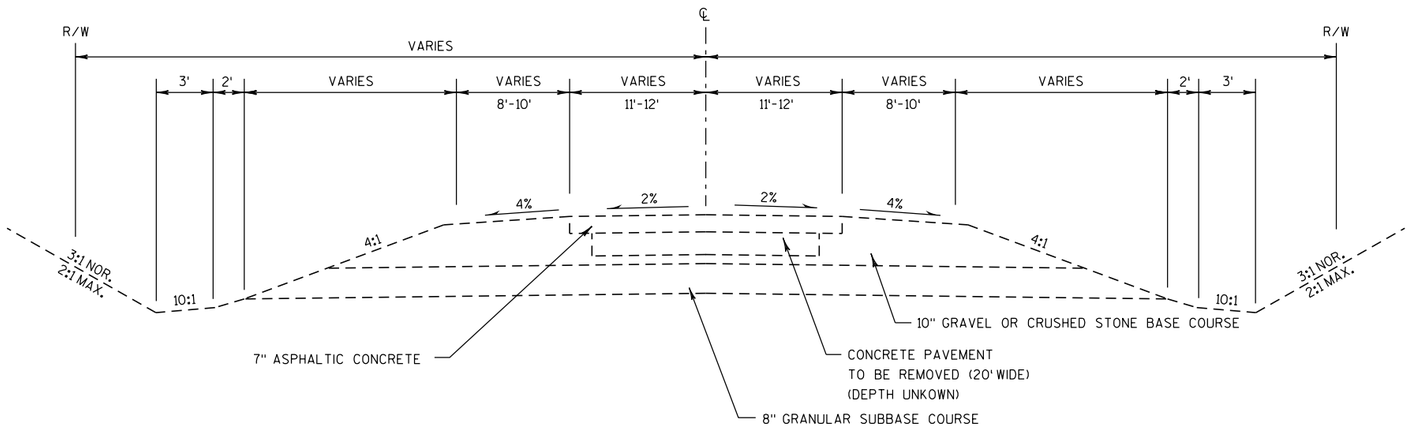
1) EARTHWORK, GRADING, DRAINAGE, AND RESTORATION WORK PEREVIOUSLY COMPLETED BY OTHERS UNDER PROJECT ID 1030-24-76, FRONTAGE ROAD GRADING FOR THE FOLLOWING LOCATION:
WEST FRONTAGE ROAD: STA. 4762+00 TO STA. 4772+50

2) DITCH DRAINAGE/GRADING MODIFICATION WORK PREVIOUSLY COMPLETED BY OTHERS UNDER PROJECT ID 1320-20-60, WEST FRONTAGE/58TH ROAD DITCH (RACINE CO.) FOR THE FOLLOWING LOCATION:
WEST FRONTAGE ROAD: STA. 4761+50 TO STA. 4766+25

PROJECT NO: 1030-24-74	HWY: IH 94	COUNTY: RACINE	PROJECT OVERVIEW: WEST FRONTAGE ROAD	SHEET 4	E



TYPICAL EXISTING SECTION
WEST FRONTAGE ROAD

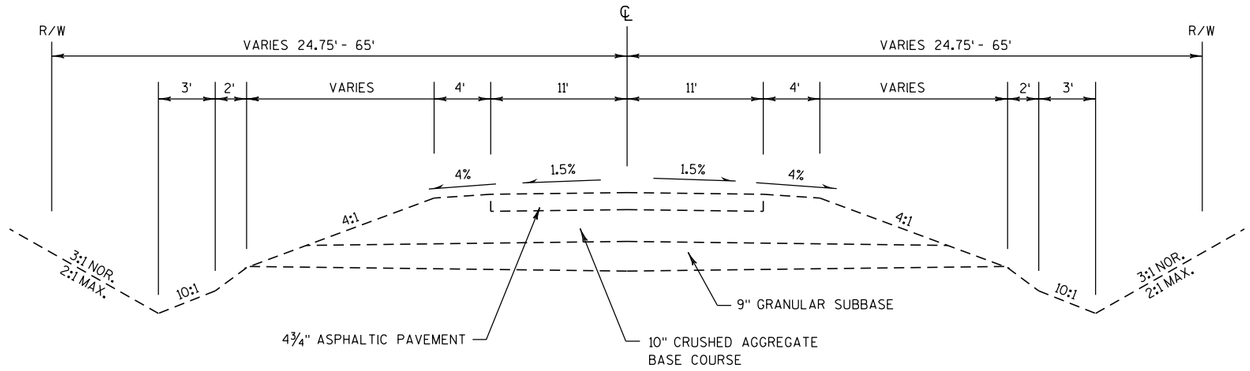


TYPICAL EXISTING SECTION
WEST FRONTAGE ROAD
STA. 4785+00 TO STA. 4845+08/2838+77

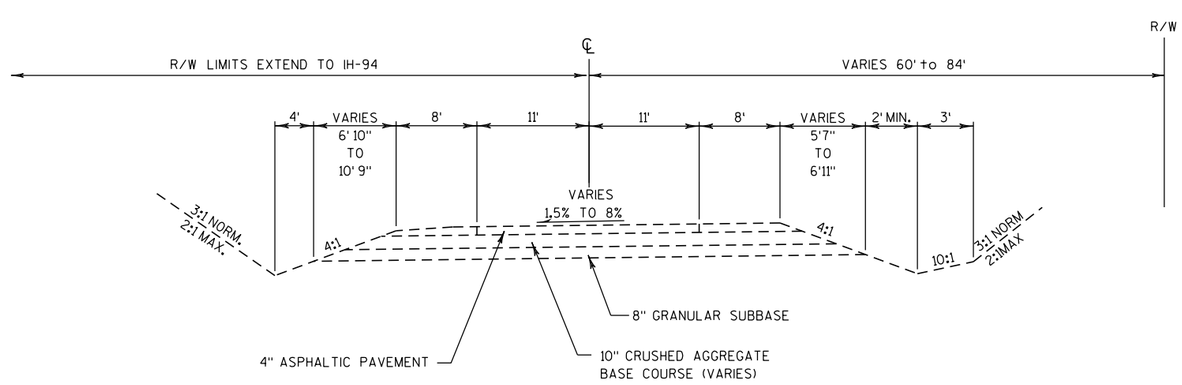
NOTE: EARTHWORK, GRADING, DRAINGE AND RESTORATION FROM STA 4761+50 TO STA 4772+50 COMPLETED BY OTHERS UNDER PROJECT ID 1030-24-76, FRONTAGE ROAD GRADING.

PROJECT NO: 1030-24-74	HWY: IH 94	COUNTY: RACINE	TYPICAL SECTIONS: EXISTING WEST FRONTAGE ROAD	SHEET 5	E

2



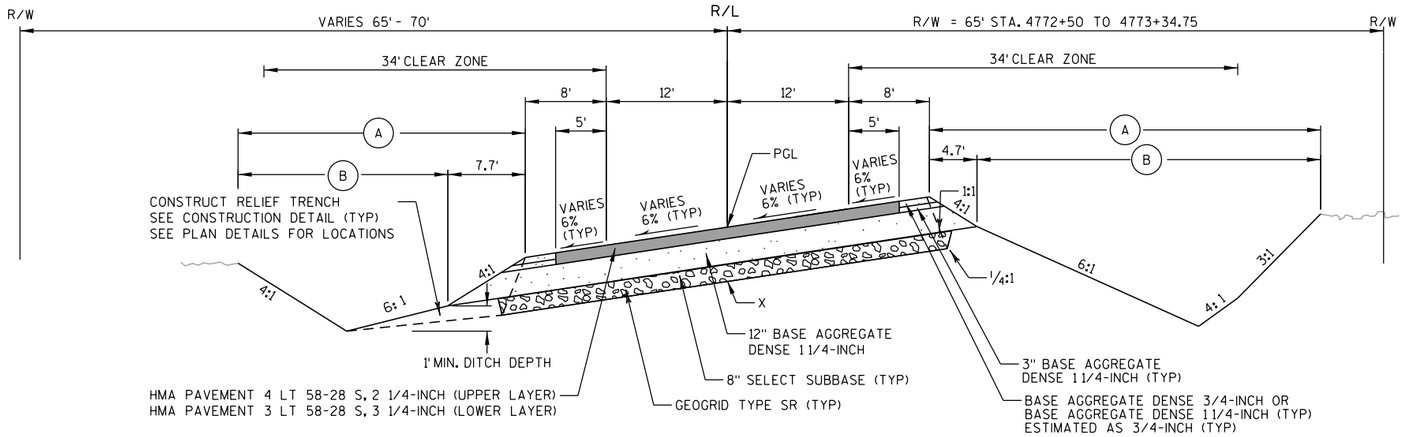
TYPICAL EXISTING SECTION
58TH ROAD



TYPICAL EXISTING SECTION
ACCESS ROAD B

PROJECT NO: 1030-24-74	HWY: IH 94	COUNTY: RACINE	TYPICAL SECTIONS: EXISTING 58TH ROAD AND ACCESS ROAD B	SHEET 6	E

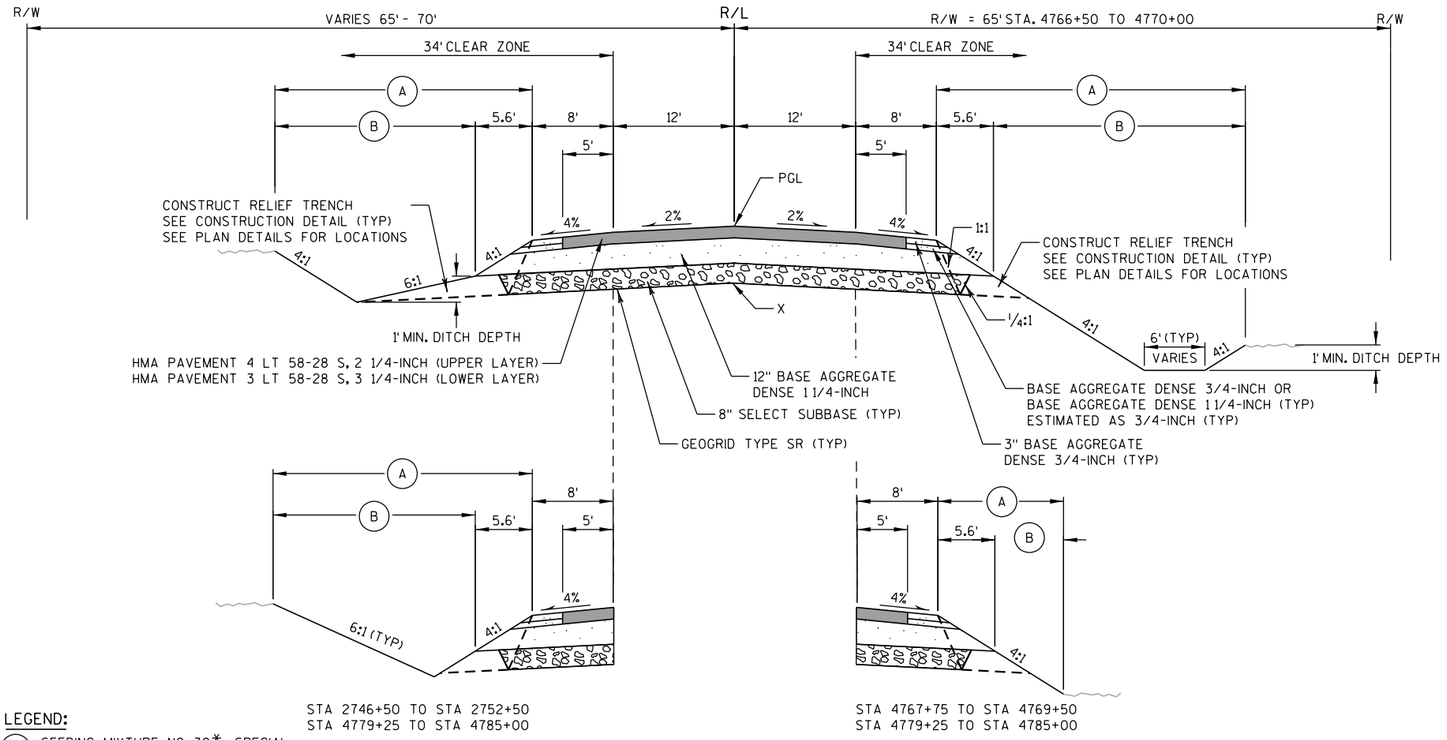
FILE NAME : Z:\Racine\CADDS\13\13W\CDS\020301_ts.dgn PLOT DATE : 7/28/2017 PLOT BY : cory.ihde PLOT NAME : PLOT SCALE : 1:15



TYPICAL FINISHED SECTION

SUPERELEVATED SECTION
WEST FRONTAGE ROAD

STA 2737+00 TO STA 2745+00
STA 4772+50 TO STA 4779+25



NOTE:

PGL = POINT REFERRED TO ON PROFILE
AND PIVOT POINT FOR SUPERELEVATION
X = POINT REFERRED TO ON CROSS SECTION

LEGEND:

(A) SEEDING MIXTURE NO. 30* SPECIAL AND FERTILIZER TYPE B SPECIAL

(B) 4" SALVAGED TOPSOIL AND MULCHING OR EROSION MAT

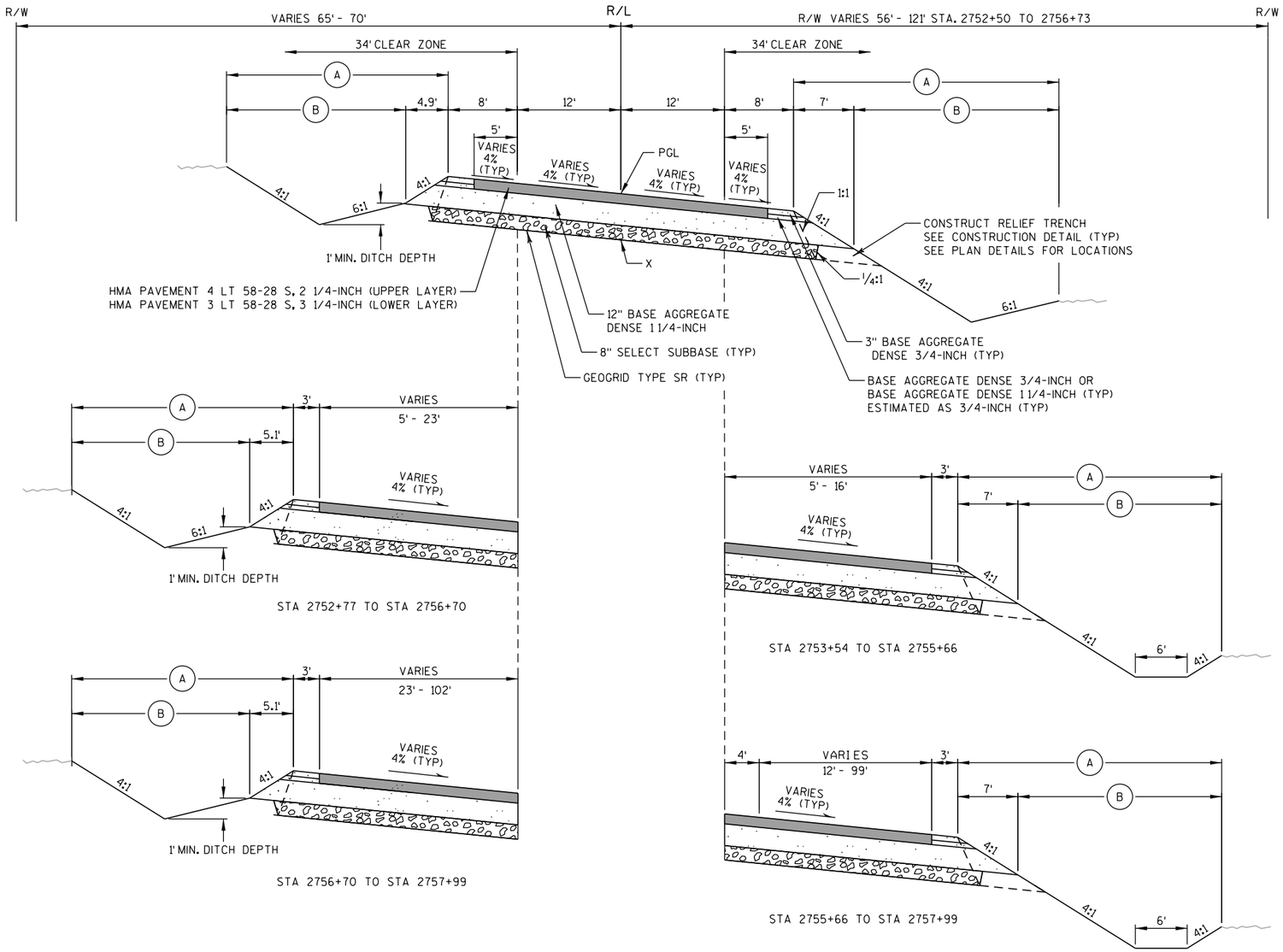
*EXCEPT USE SEEDING MIXTURE NO. 40 AT AREAS DESIGNATED IN THE EROSION CONTROL PLANS

TYPICAL FINISHED SECTION

WEST FRONTAGE ROAD

STA 2745+00 TO STA 2752+50
STA 4779+25 TO STA 4785+00

PROJECT NO: 1030-24-74	HWY: IH 94	COUNTY: RACINE	TYPICAL SECTIONS: WEST FRONTAGE ROAD	SHEET 7	E



TYPICAL FINISHED SECTION

SUPERELEVATED SECTION
WEST FRONTAGE ROAD

STA 2752+50 TO STA 2757+99

NOTE:

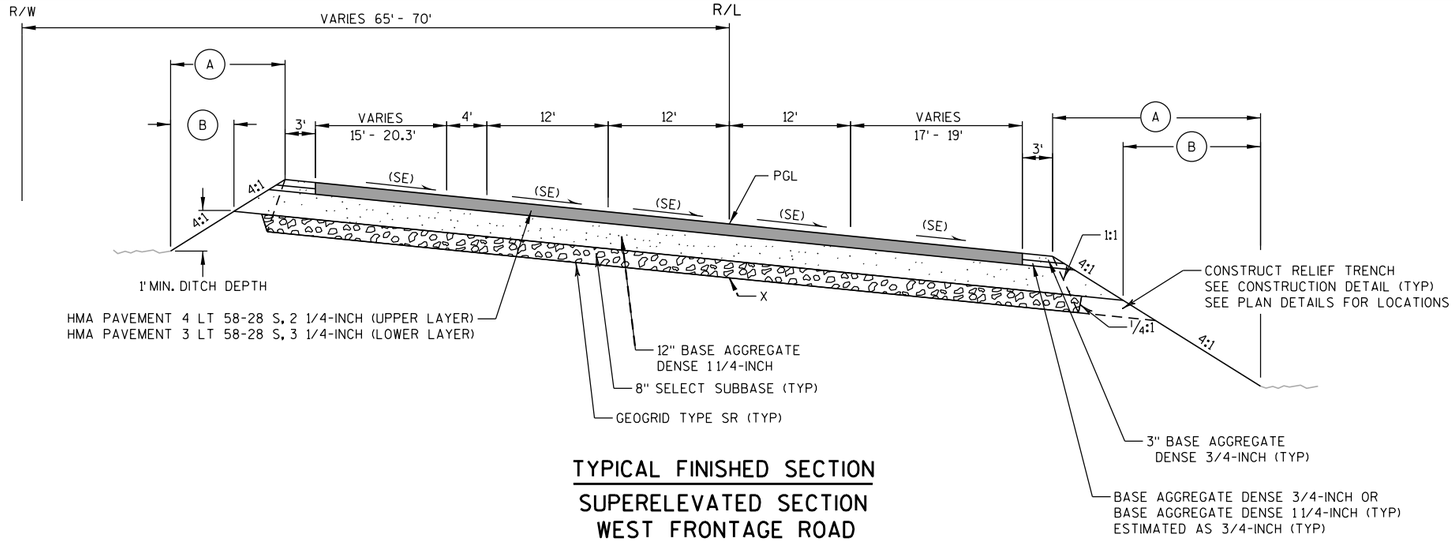
PGL = POINT REFERRED TO ON PROFILE AND PIVOT POINT FOR SUPERELEVATION
X = POINT REFERRED TO ON CROSS SECTION

LEGEND:

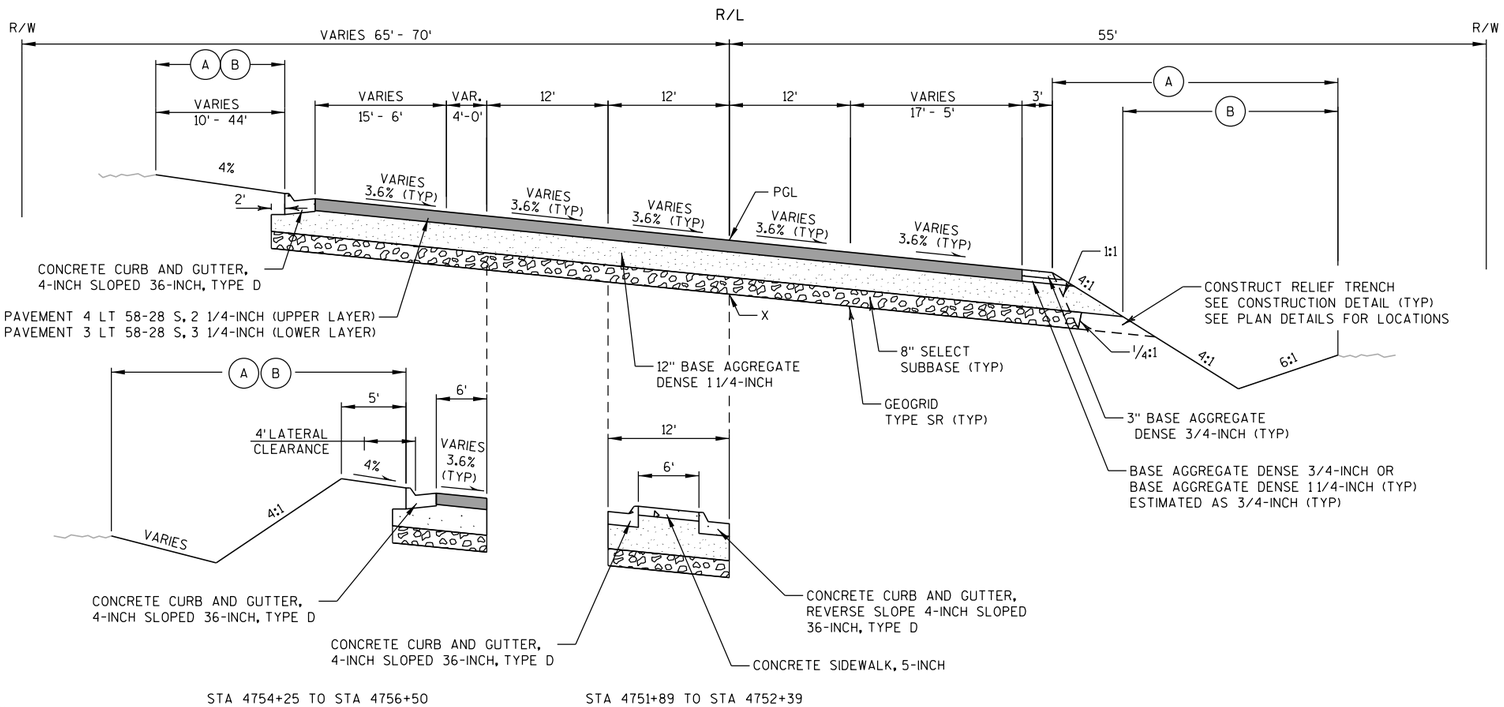
(A) SEEDING MIXTURE NO. 30* SPECIAL AND FERTILIZER TYPE B SPECIAL
(B) 4" SALVAGED TOPSOIL AND MULCHING OR EROSION MAT

*EXCEPT USE SEEDING MIXTURE NO. 40 AT AREAS DESIGNATED IN THE EROSION CONTROL PLANS

PROJECT NO: 1030-24-74	HWY: IH 94	COUNTY: RACINE	TYPICAL SECTIONS: WEST FRONTAGE ROAD	SHEET 8	E



TYPICAL FINISHED SECTION
SUPERELEVATED SECTION
WEST FRONTAGE ROAD
STA 4751+07 TO STA 4751+82



STA 4754+25 TO STA 4756+50

STA 4751+89 TO STA 4752+39

TYPICAL FINISHED SECTION
SUPERELEVATED SECTION
WEST FRONTAGE ROAD
STA 4751+82 TO STA 4756+50

NOTE;

PGL = POINT REFERRED TO ON PROFILE AND PIVOT POINT FOR SUPERELEVATION
X = POINT REFERRED TO ON CROSS SECTION
(SE) = SEE ALIGNMENT LAYOUT SHEET FOR SUPERELEVATION (SE) RATES

LEGEND:

(A) SEEDING MIXTURE NO. 30* SPECIAL AND FERTILIZER TYPE B SPECIAL

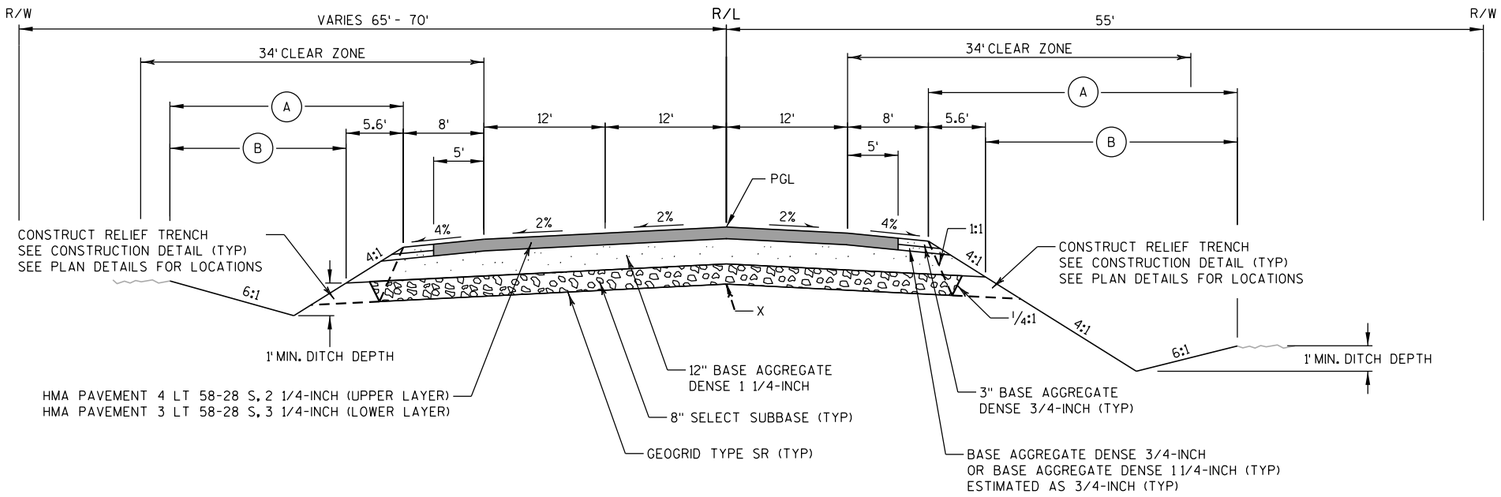
(B) 4" SALVAGED TOPSOIL AND MULCHING OR EROSION MAT

*EXCEPT USE SEEDING MIXTURE NO. 40 AT AREAS DESIGNATED IN THE EROSION CONTROL PLANS

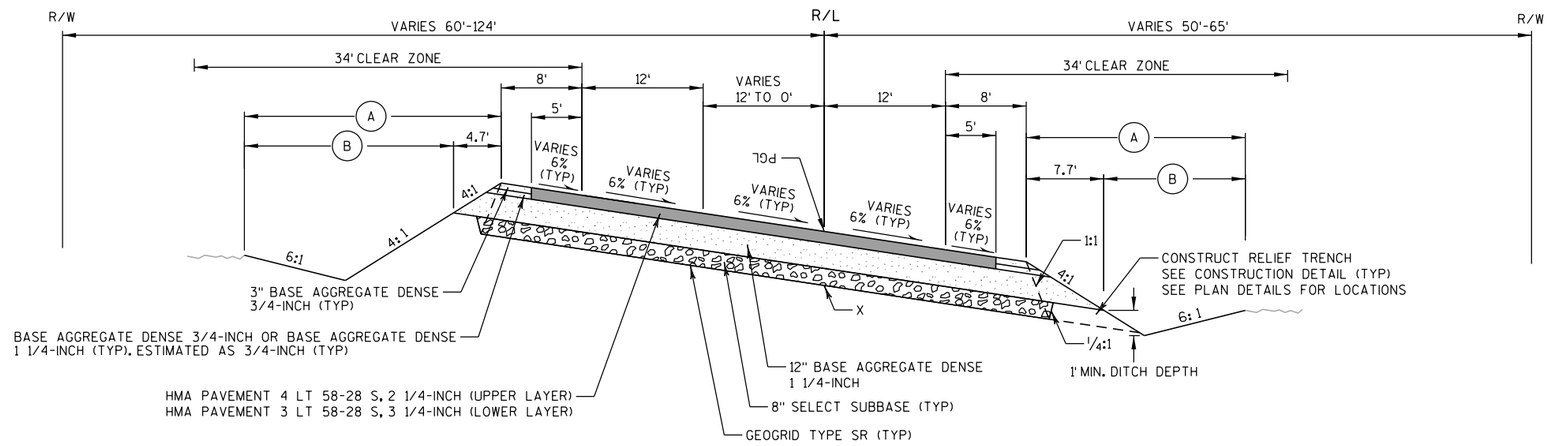
PROJECT NO: 1030-24-74	HWY: IH 94	COUNTY: RACINE	TYPICAL SECTIONS: WEST FRONTAGE ROAD	SHEET 9	E

FILE NAME : Z:\Racine\CADDS\13\13W\CDS\020301_ts.dgn PLOT DATE : 7/28/2017 PLOT BY : cory.ihde PLOT NAME : PLOT SCALE : 1:15

WISDOT/CADDS SHEET 42



TYPICAL FINISHED SECTION
WEST FRONTAGE ROAD
STA 4756+50 TO STA 4759+50



NOTE:

PGL = POINT REFERRED TO ON PROFILE
AND PIVOT POINT FOR SUPERELEVATION
X = POINT REFERRED TO ON CROSS SECTION

LEGEND:

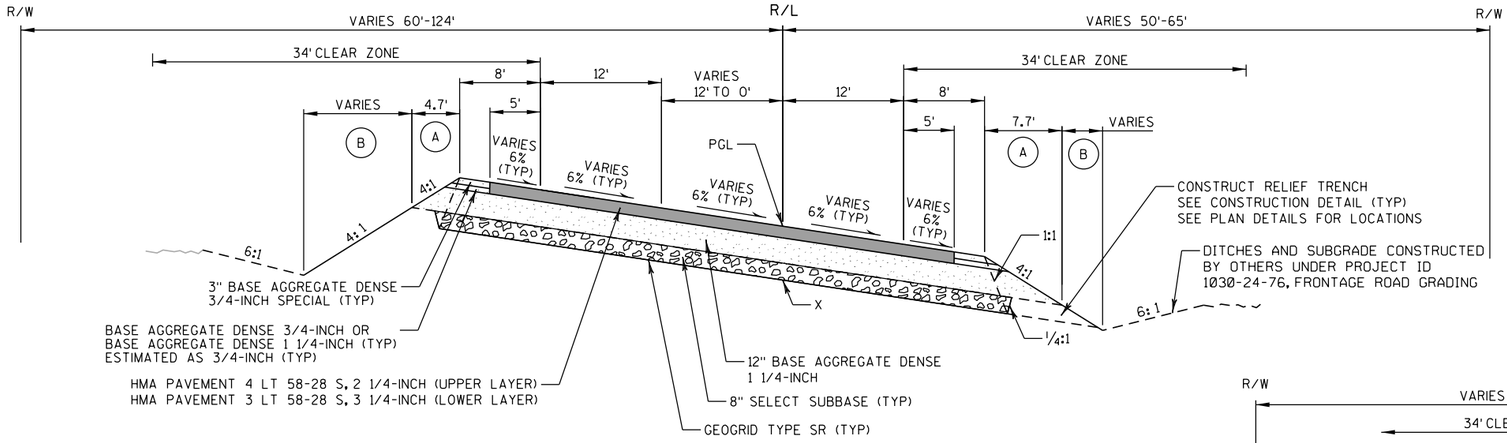
(A) SEEDING MIXTURE NO. 30* SPECIAL
AND FERTILIZER TYPE B SPECIAL

(B) 4" SALVAGED TOPSOIL
AND MULCHING OR EROSION MAT

*EXCEPT USE SEEDING MIXTURE NO. 40 AT
AREAS DESIGNATED IN THE EROSION CONTROL PLANS

TYPICAL FINISHED SECTION
SUPERELEVATED SECTION
WEST FRONTAGE ROAD
STA 4759+50 TO STA 4762+00

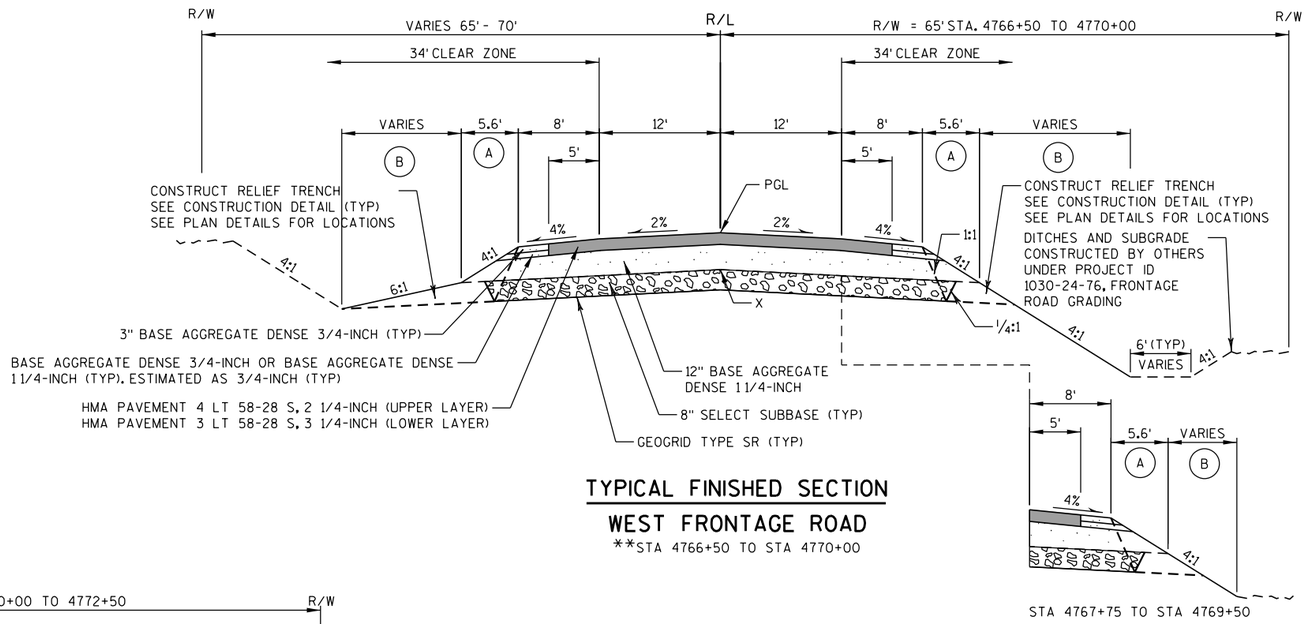
PROJECT NO: 1030-24-74	HWY: IH 94	COUNTY: RACINE	TYPICAL SECTIONS: WEST FRONTAGE ROAD	SHEET 10	E



TYPICAL FINISHED SECTION

SUPERELEVATED SECTION
WEST FRONTAGE ROAD

**STA 4762+00 TO STA 4766+50

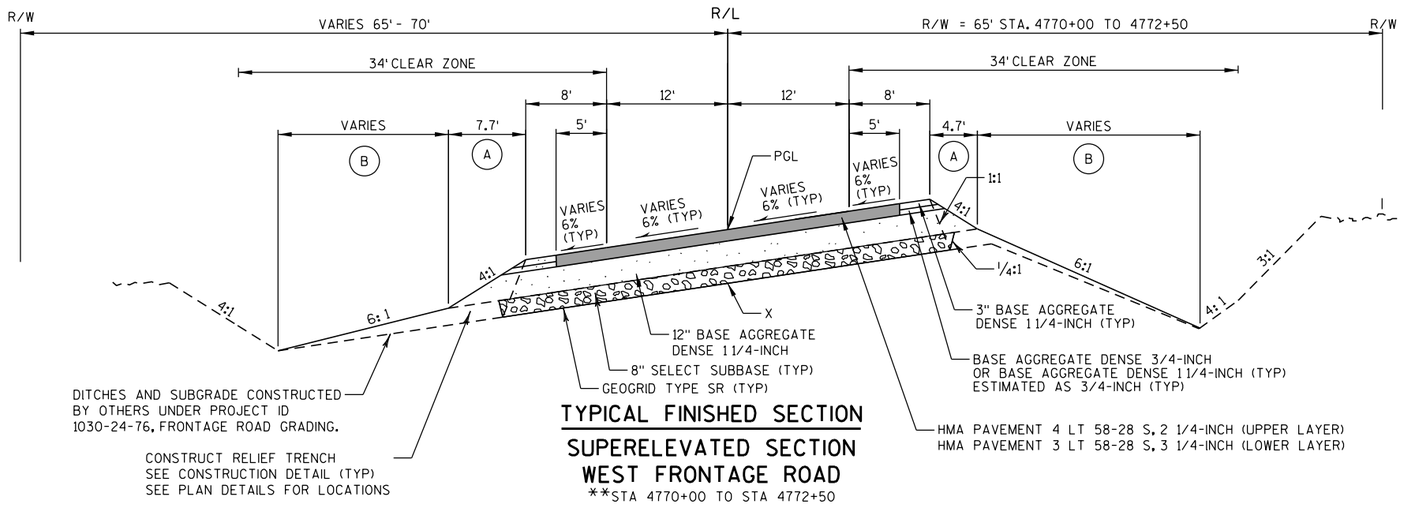


TYPICAL FINISHED SECTION

WEST FRONTAGE ROAD

**STA 4766+50 TO STA 4770+00

STA 4767+75 TO STA 4769+50



TYPICAL FINISHED SECTION

SUPERELEVATED SECTION
WEST FRONTAGE ROAD

**STA 4770+00 TO STA 4772+50

**NOTE:

PREVIOUS EARTHWORK, GRADING, DRAINAGE AND RESTORATION WITHIN THIS STATION LIMIT COMPLETED BY OTHERS UNDER PROJECT ID 1030-24-76, FRONTAGE ROAD GRADING. TOPSOIL REMOVAL WITHIN ROADBED TO BE PAID FOR UNDER ITEM "PREPARE FOUNDATION FOR BASE AGGREGATE." TOPSOIL REMOVAL BETWEEN THE SUBGRADE SHOULDER POINT AND THE SLOPE INTERCEPT TO BE PAID FOR UNDER ITEM "SALVAGED TOPSOIL."

LEGEND:

(A) SEEDING MIXTURE NO. 30* SPECIAL AND FERTILIZER TYPE B SPECIAL

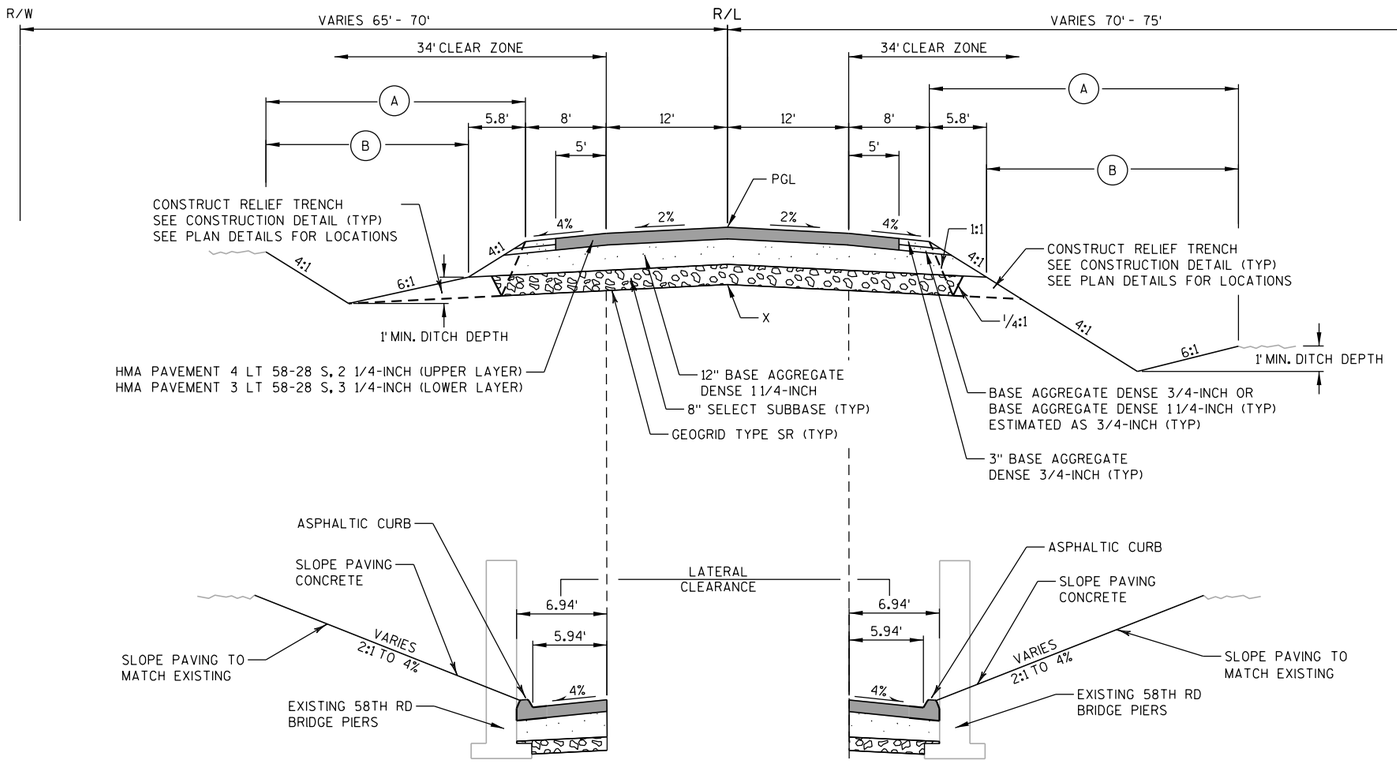
(B) 4" SALVAGED TOPSOIL AND MULCHING OR EROSION MAT

*EXCEPT USE SEEDING MIXTURE NO. 40 AT AREAS DESIGNATED IN THE EROSION CONTROL PLANS

NOTE:

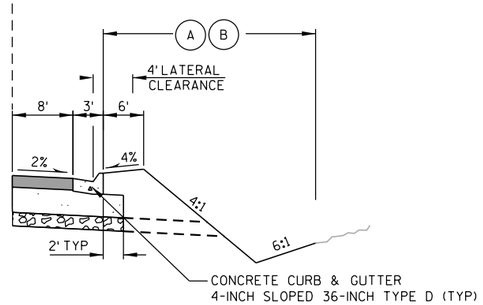
PGL = POINT REFERRED TO ON PROFILE AND PIVOT POINT FOR SUPERELEVATION
X = POINT REFERRED TO ON CROSS SECTION

PROJECT NO: 1030-24-74	HWY: IH 94	COUNTY: RACINE	TYPICAL SECTIONS: WEST FRONTAGE ROAD	SHEET 11	E



STA 50+00 TO STA 51+45

STA 50+00 TO STA 51+45



STA 51+45 TO STA 52+78

NOTE:

PGL = POINT REFERRED TO ON PROFILE
AND PIVOT POINT FOR SUPERELEVATION
X = POINT REFERRED TO ON CROSS SECTION

LEGEND:

(A) SEEDING MIXTURE NO. 30* SPECIAL
AND FERTILIZER TYPE B SPECIAL

(B) 4" SALVAGED TOPSOIL
AND MULCHING OR EROSION MAT

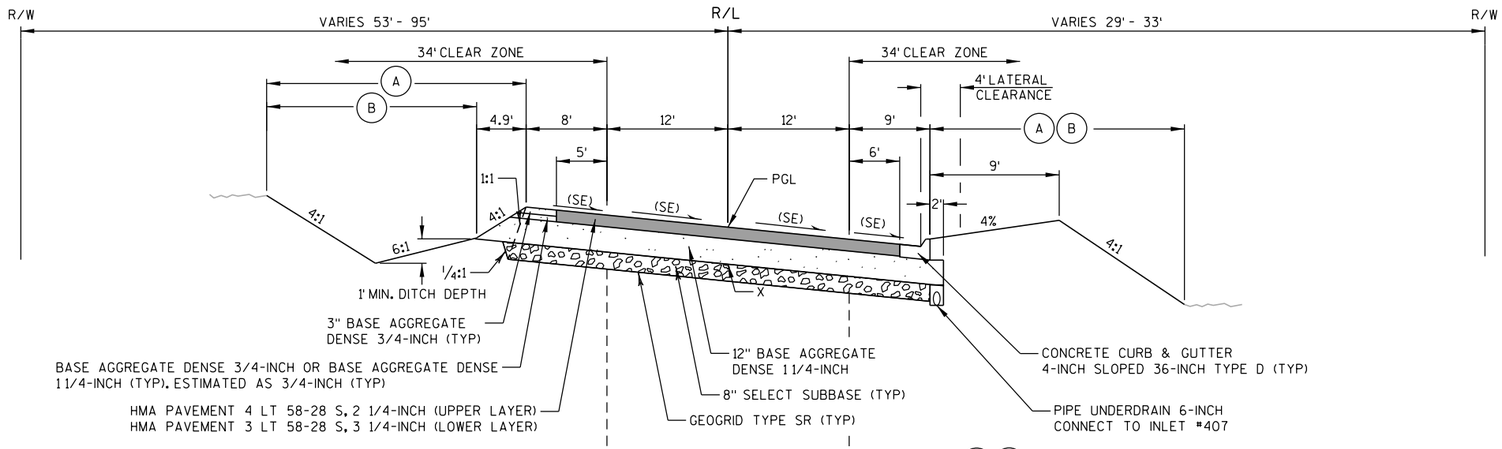
*EXCEPT USE SEEDING MIXTURE NO. 40 AT
AREAS DESIGNATED IN THE EROSION CONTROL PLANS

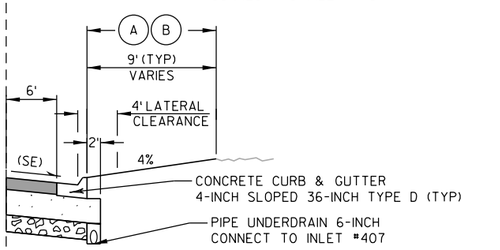
TYPICAL FINISHED SECTION

58TH ROAD

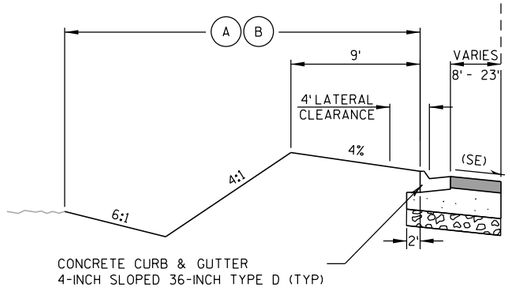
STA 34+00 TO STA 34+75
STA 50+00 TO STA 57+72

PROJECT NO: 1030-24-74	HWY: IH 94	COUNTY: RACINE	TYPICAL SECTIONS: 58TH ROAD	SHEET 12	E

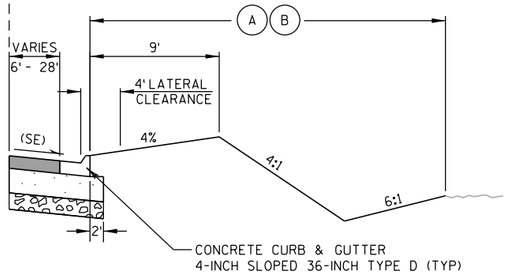




STA 35+35 TO STA 37+00



STA 38+28 TO STA 38+72



STA 38+00 TO STA 38+72

NOTE:

PGL = POINT REFERRED TO ON PROFILE AND PIVOT POINT FOR SUPERELEVATION
X = POINT REFERRED TO ON CROSS SECTION
(SE) = SEE ALIGNMENT LAYOUT SHEET FOR SUPERELEVATION (SE) RATES

LEGEND:

(A) SEEDING MIXTURE NO. 30* SPECIAL AND FERTILIZER TYPE B SPECIAL
(B) 4" SALVAGED TOPSOIL AND MULCHING OR EROSION MAT

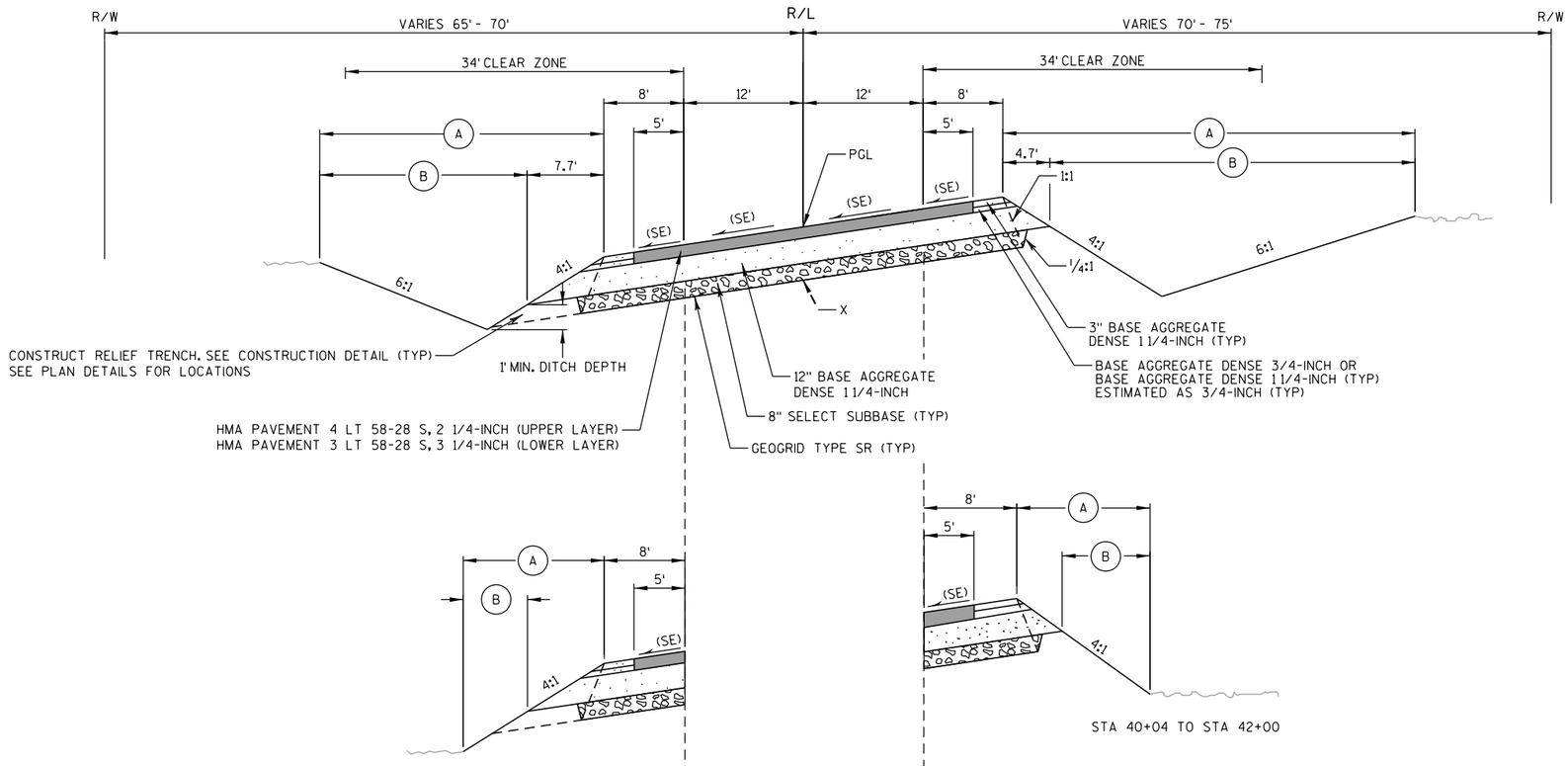
*EXCEPT USE SEEDING MIXTURE NO. 40 AT AREAS DESIGNATED IN THE EROSION CONTROL PLANS

TYPICAL FINISHED SECTION

SUPERELEVATED SECTION 58TH ROAD

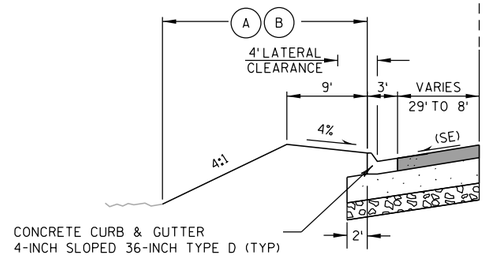
STA 34+75 TO STA 38+72

PROJECT NO: 1030-24-74	HWY: IH 94	COUNTY: RACINE	TYPICAL SECTIONS: 58TH ROAD	SHEET 13	E

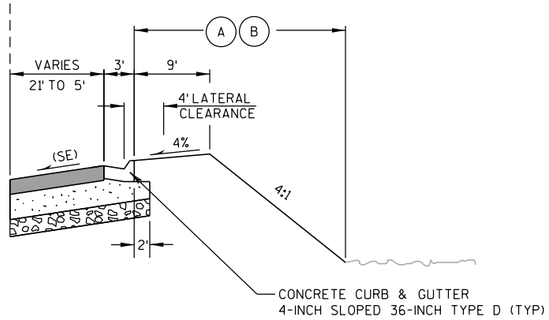


STA 40+18 TO STA 42+50

STA 40+04 TO STA 42+00



STA 39+64 TO STA 40+18



STA 39+55 TO STA 40+04

NOTE:

PGL = POINT REFERRED TO ON PROFILE
AND PIVOT POINT FOR SUPERELEVATION
X = POINT REFERRED TO ON CROSS SECTION
(SE) = SEE ALIGNMENT LAYOUT SHEET FOR
SUPERELEVATION (SE) RATES

LEGEND:

(A) SEEDING MIXTURE NO. 30* SPECIAL
AND FERTILIZER TYPE B SPECIAL

(B) 4" SALVAGED TOPSOIL
AND MULCHING OR EROSION MAT

*EXCEPT USE SEEDING MIXTURE NO. 40 AT
AREAS DESIGNATED IN THE EROSION CONTROL PLANS

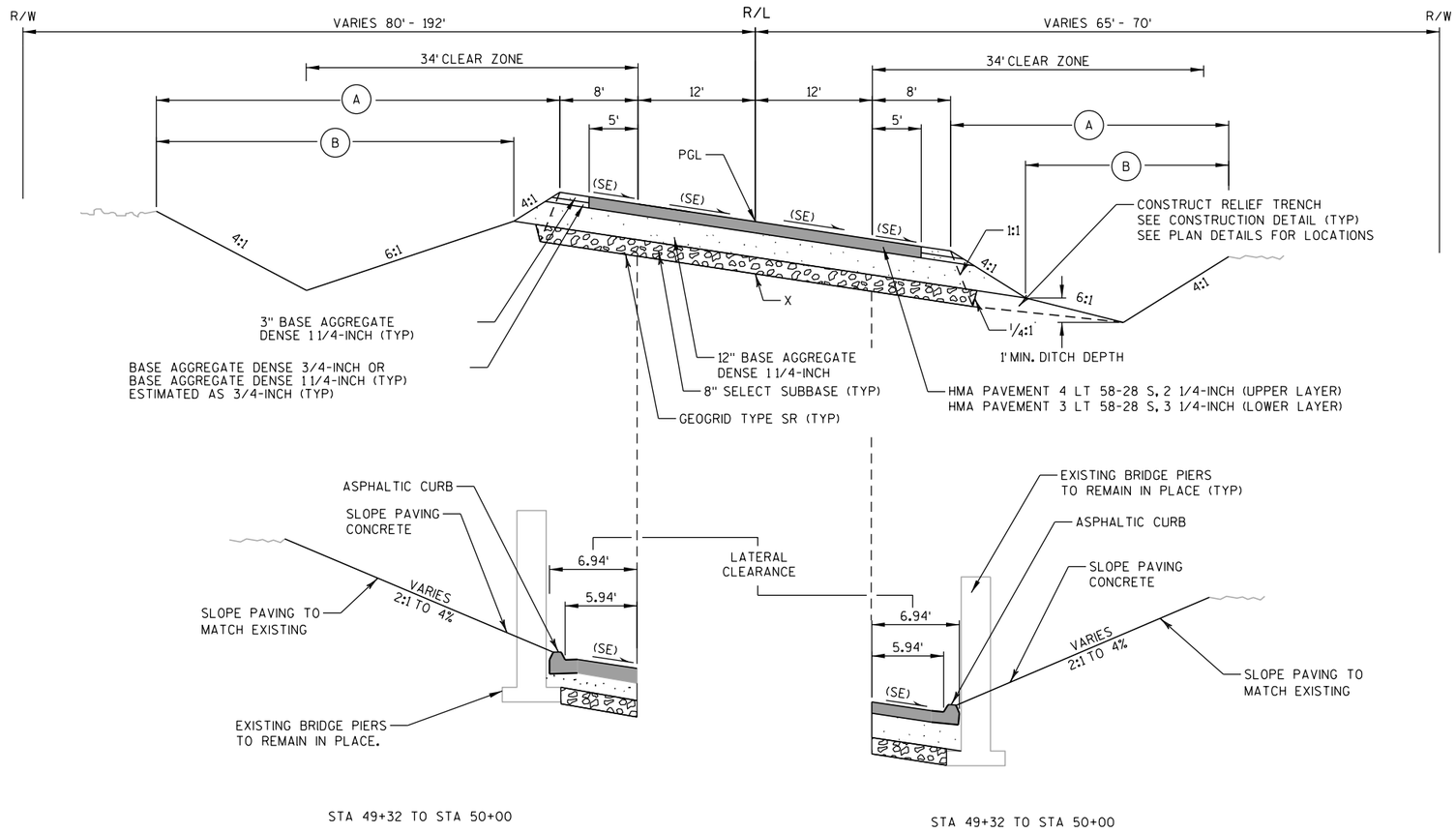
TYPICAL FINISHED SECTION

SUPERELEVATED SECTION
58TH ROAD

STA 39+55 TO STA 45+00

PROJECT NO: 1030-24-74	HWY: IH 94	COUNTY: RACINE	TYPICAL SECTIONS: 58TH ROAD	SHEET 14	E

2



STA 49+32 TO STA 50+00

STA 49+32 TO STA 50+00

NOTE:

PGL = POINT REFERRED TO ON PROFILE
AND PIVOT POINT FOR SUPERELEVATION
X = POINT REFERRED TO ON CROSS SECTION
(SE) = SEE ALIGNMENT LAYOUT SHEET FOR
SUPERELEVATION (SE) RATES

LEGEND:

(A) SEEDING MIXTURE NO. 30* SPECIAL
AND FERTILIZER TYPE B SPECIAL

(B) 4" SALVAGED TOPSOIL
AND MULCHING OR EROSION MAT

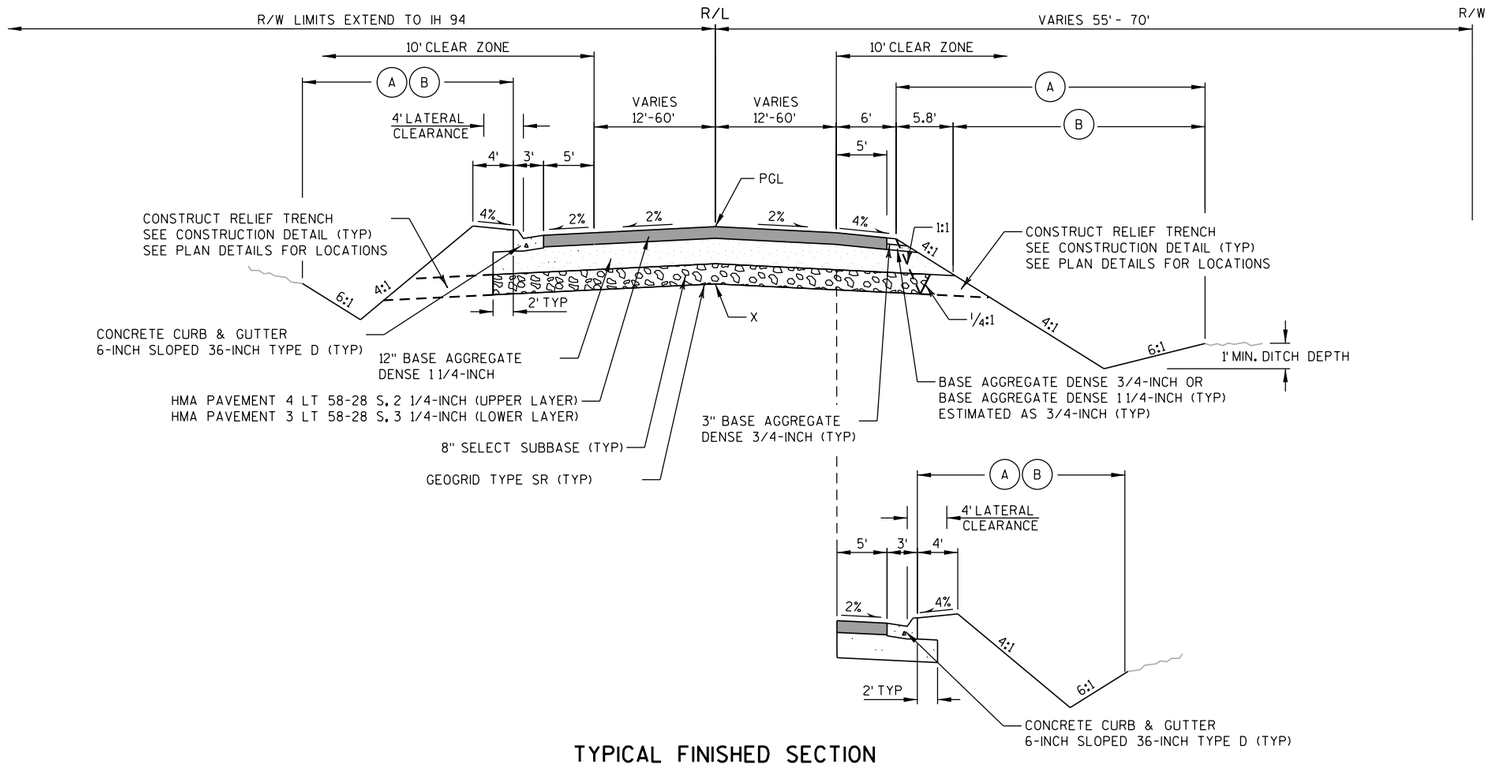
*EXCEPT USE SEEDING MIXTURE NO. 40 AT
AREAS DESIGNATED IN THE EROSION CONTROL PLANS

TYPICAL FINISHED SECTION

SUPERELEVATED SECTION
58TH ROAD

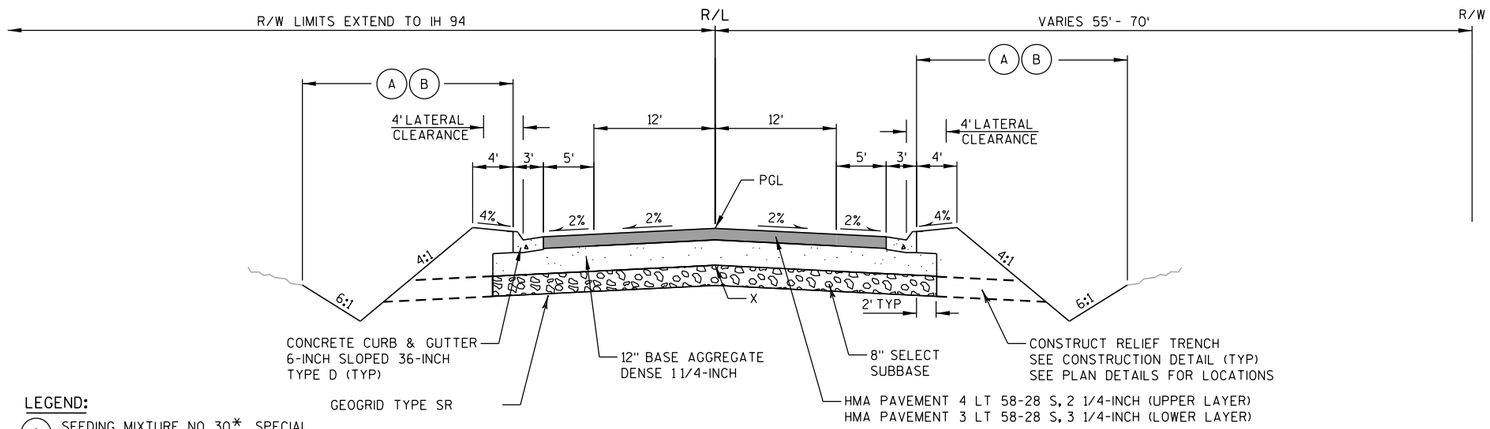
STA 45+00 TO STA 50+00

PROJECT NO: 1030-24-74	HWY: IH 94	COUNTY: RACINE	TYPICAL SECTIONS: 58TH ROAD	SHEET 15	E



TYPICAL FINISHED SECTION
ACCESS ROAD B
STA 74B+50 TO STA 78B+55

STA 74B+50 TO STA 75B+39
STA 78B+00 TO STA 78B+55



TYPICAL FINISHED SECTION
ACCESS ROAD B
STA 78B+55 TO STA 79B+79

NOTE:

PGL = POINT REFERRED TO ON PROFILE
AND PIVOT POINT FOR SUPERELEVATION
X = POINT REFERRED TO ON CROSS SECTION

LEGEND:

(A) SEEDING MIXTURE NO. 30* SPECIAL
AND FERTILIZER TYPE B SPECIAL

(B) 4" SALVAGED TOPSOIL
AND MULCHING OR EROSION MAT

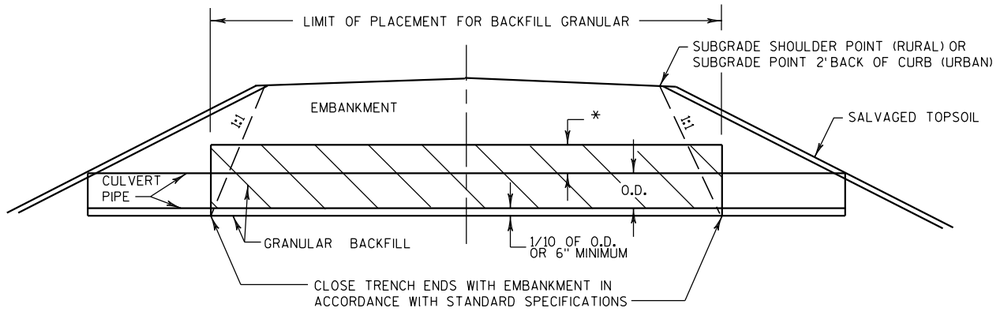
*EXCEPT USE SEEDING MIXTURE NO. 40 AT
AREAS DESIGNATED IN THE EROSION CONTROL PLANS

PROJECT NO: 1030-24-74	HWY: IH 94	COUNTY: RACINE	TYPICAL SECTIONS: ACCESS ROAD B	SHEET 16	E

RUNOFF COEFFICIENT TABLE

	HYDROLOGIC SOIL GROUP											
	A			B			C			D		
	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)		
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56
MEDIAN STRIP-TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22 .28	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40
SIDE SLOPE-TURF			.25 .32			.27 .34			.28 .36			.30 .38
PAVEMENT:												
ASPHALT	.70 - .95											
CONCRETE	.80 - .95											
BRICK	.70 - .80											
DRIVES, WALKS	.75 - .85											
ROOFS	.75 - .95											
GRAVEL ROADS, SHOULDERS	.40 - .60											

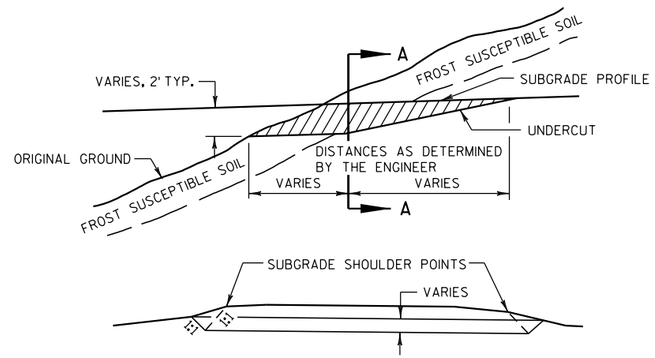
TOTAL PROJECT AREA = 145.79 ACRES (STH 11 INTERCHANGE R/W AREA)
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 30.50 ACRES (I.D. 1030-24-74)



O.D. = OUTSIDE DIAMETER

* CULVERT PIPE IN NEW EMBANKMENT = 1' MIN
* CULVERT PIPE IN EXISTING EMBANKMENT = TO EXISTING GROUND ELEVATION

CULVERT BACKFILL DETAIL



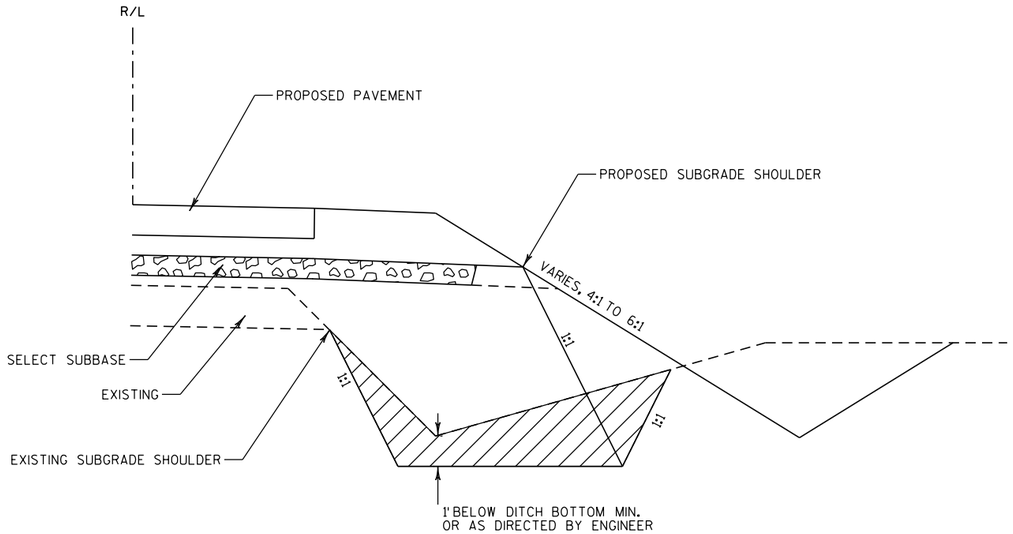
SECTION A-A
CROSS SECTION SHOWING UNDERCUT

NOTES

1. EXACT LOCATIONS AND EXTENT OF EBS SECTIONS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

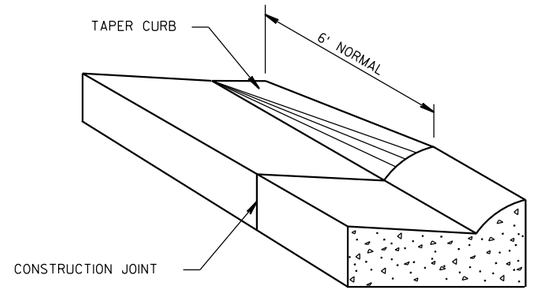
2. THE FILL SECTION WITHIN 100' OF THE MOUTH OF THE CUT MUST BE KEPT 2' BELOW SUBGRADE UNTIL EBS IS COMPLETED.

EXCAVATION BELOW SUBGRADE AT CUTS



EBS AT DITCH FILLS AT FRONTAGE ROADS

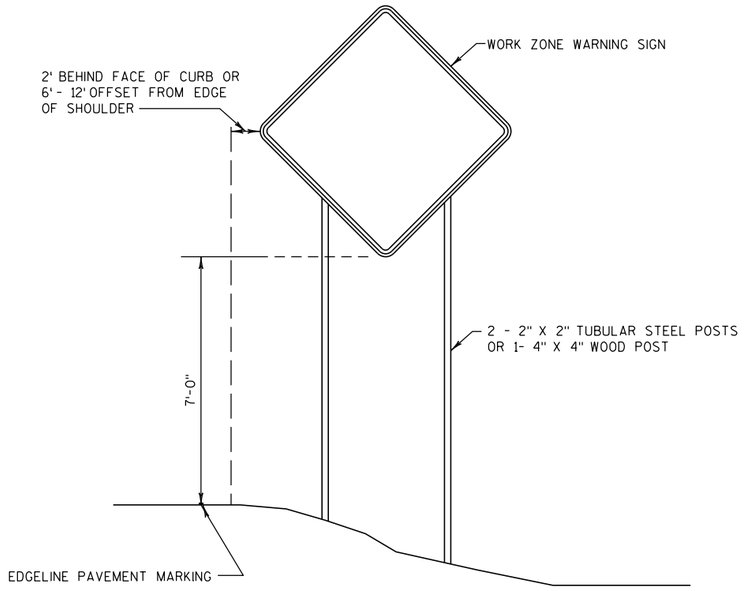
1. UTILIZE DETAIL FOR ALL AREAS WHERE FILL IS TO BE PLACED OVER AN EXISTING DITCH.
2. EXCAVATE AREA TO A MINIMUM OF 1-FOOT BELOW EXISTING DITCH BOTTOM OR AS DIRECTED BY ENGINEER IN THE FIELD.
3. EXACT LOCATIONS AND EXTENTS OF EBS SECTIONS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.



DETAIL OF CURB & GUTTER TERMINI

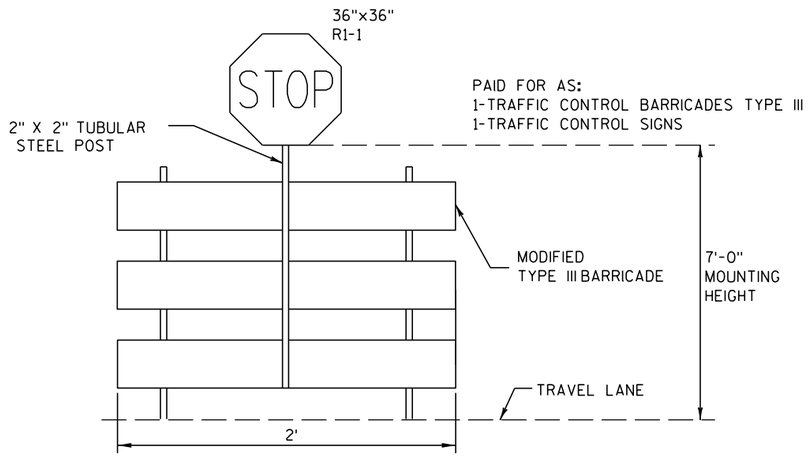
NOTE: USE 6 FT TRANSITION FOR CONCRETE AND ASPHALTIC CURB

2

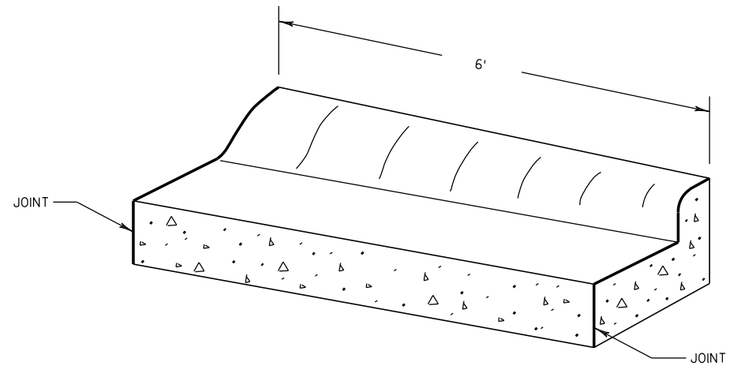


TYPICAL TEMPORARY TRAFFIC CONTROL SIGN MOUNTING ON FIXED SUPPORT

LONG TERM
7 DAYS OR MORE

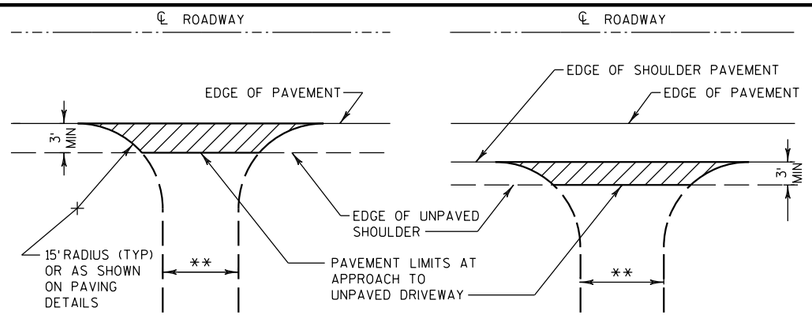


TEMPORARY STOP SIGN



CURB TRANSITION DETAIL

FOR CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D TO 30-INCH TYPE D
(TO BE MEASURED & PAID FOR AS CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D)

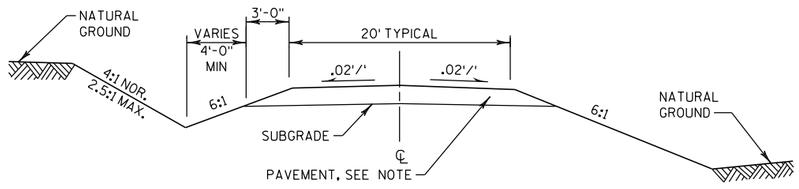


** SEE PAVING DETAILS FOR WIDTH REQUIRED.

PLAN VIEW

PLAN VIEW
(PAVED SHOULDER ON HIGHWAY)

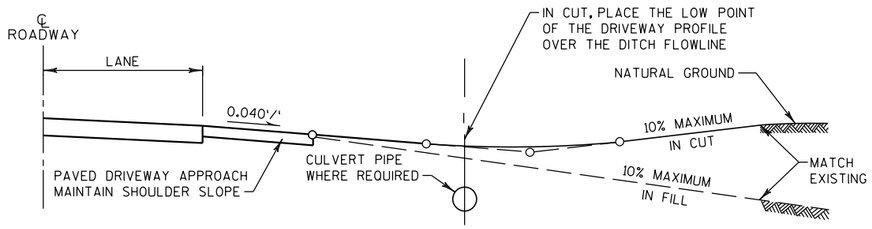
RURAL DRIVEWAY INTERSECTION



IN CUT

IN FILL

TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE



TYPICAL DRIVEWAY PROFILES

NOTES

1. WHERE DRIVEWAY IS PAVED, APPROACH PAVEMENT SHOULD BE EXTENDED TO MATCH DRIVEWAY PAVEMENT. SAWCUT IS REQUIRED.

2. DRIVEWAY SURFACE TO BE SAME AS EXISTING WITH MINIMUM SECTION OF:

   ASPHALTIC SURFACE (3 OR 4-INCH) DRIVEWAYS AND FIELD ENTRANCES OVER BASE AGGREGATE DENSE 3/4 -INCH (4-INCH)

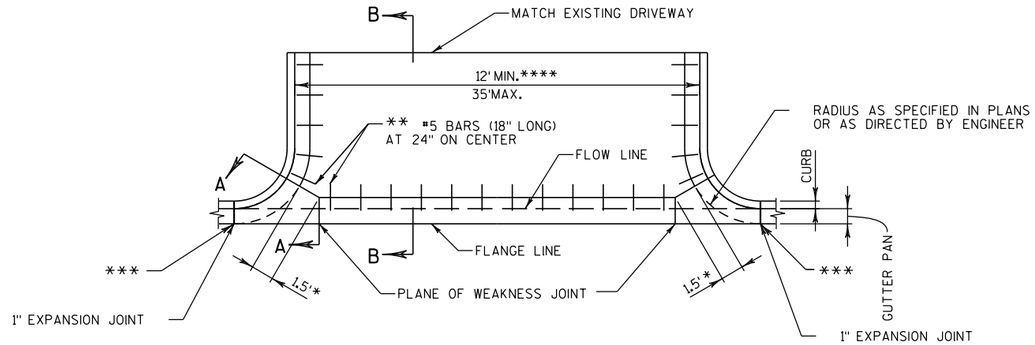
   OR

   CONCRETE DRIVEWAY 6-INCH OVER BASE AGGREGATE DENSE 3/4 -INCH (4-INCH)

   OR

   BASE AGGREGATE DENSE 3/4 -INCH (6-INCH)

RURAL DRIVEWAY



* TO FRONT EDGE OF GUTTER PAN

** NOT USED IF DRIVEWAY AND CURB ARE POURED INTEGRALLY OR IF HMA APPROACH IS USED

*** STATION SHOWN ON PLAN DETAILS

**** SEE PLAN DETAILS FOR WIDTH REQD

PLAN VIEW

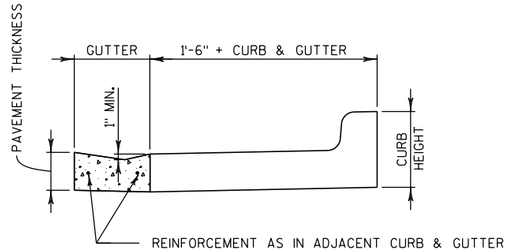
NOTES:

(1) DRIVEWAY SURFACE TO BE REPLACED IN-KIND WITH A MINIMUM SECTION OF:

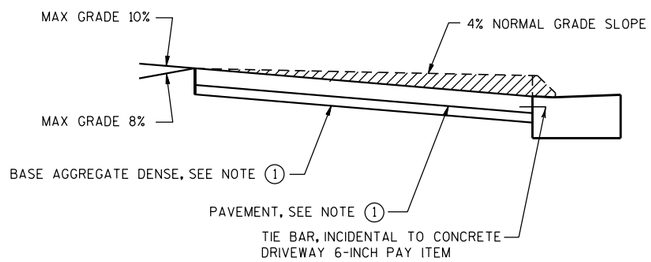
A) ASPHALTIC SURFACE (3-INCH OR 4-INCH) DRIVEWAYS AND FIELD ENTRANCES OVER BASE AGGREGATE DENSE 3/4-INCH (4-INCH)
OR
B) CONCRETE DRIVEWAY 6-INCH OVER BASE AGGREGATE DENSE 3/4-INCH (4-INCH)

SEE PLAN DETAIL FOR DRIVEWAY CALLOUT

(2) ALL URBAN DRIVEWAYS TO BACK OF APRON TO BE PAID FOR AS ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES

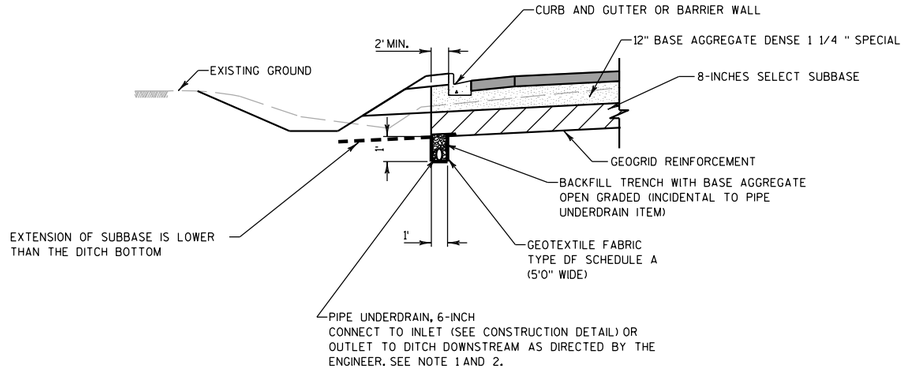


SECTION A-A



SECTION B-B

CONCRETE CURB AND GUTTER DRIVEWAY DETAIL



PIPE UNDERDRAIN IN URBAN SECTIONS

SEE PLAN DETAILS FOR PIPE UNDERDRAIN LOCATIONS

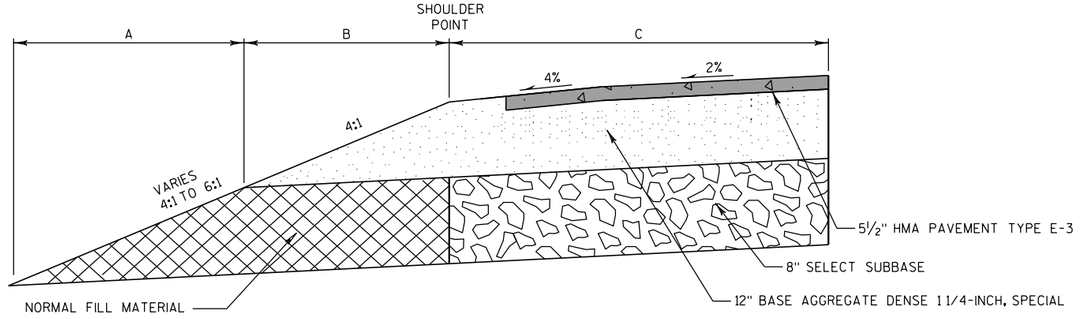
NOTES:

1. PIPE UNDERDRAIN UNPERFORATED REQUIRED AT LOCATIONS WHERE UNDERDRAIN IS REQUIRED TO CONNECT TO DITCHES OUTSIDE THE EBS AREA.

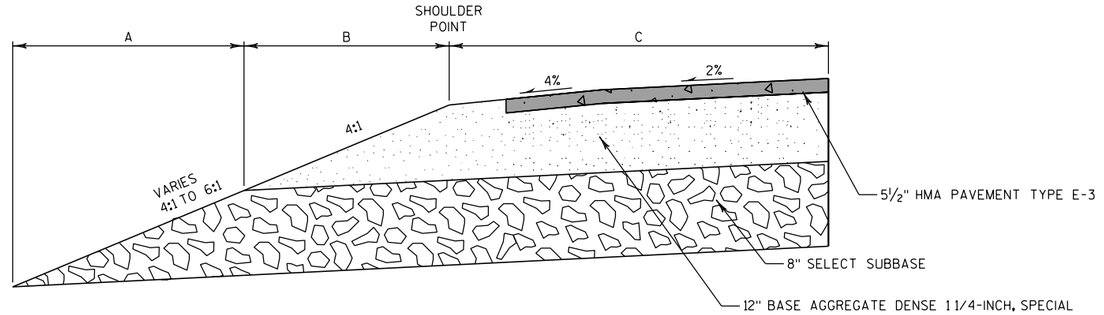
2. PIPE UNDERDRAIN UNPERFORATED REQUIRED AT LOCATIONS WHERE UNDERDRAIN IS REQUIRED TO OUTFALL IN DITCHES ON THE OPPOSITE SIDE OF THE ROAD (SEE UNDERDRAIN LATERAL CROSSING OUTLET DETAIL)

3. USE APRON ENDWALLS FOR UNDERDRAIN REINFORCED CONCRETE AT ALL DITCH OUTFALLS OF PIPE UNDERDRAIN.

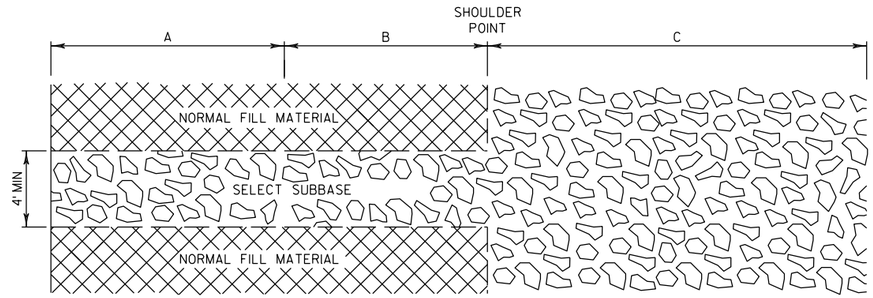
4. ADJUST LATERAL LOCATION OF PIPE UNDERDRAIN AS NECESSARY TO AVOID CONFLICTS WITH THE STORM SEWER.



TYPICAL HALF SECTION WITHOUT RELIEF TRENCH



TYPICAL HALF SECTION WITH RELIEF TRENCH

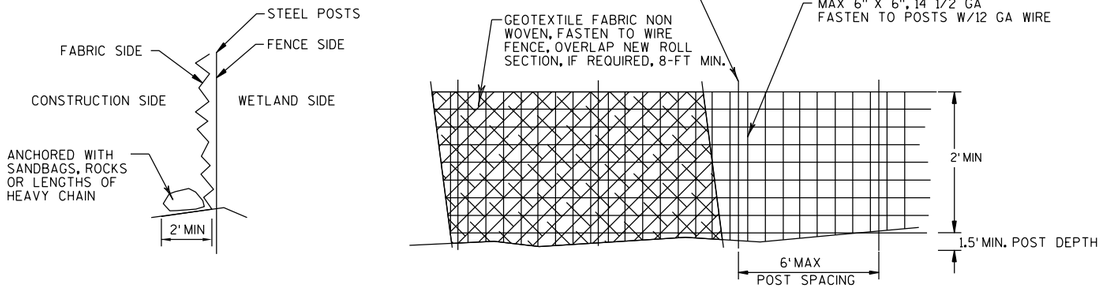


RELIEF TRENCH PLAN VIEW

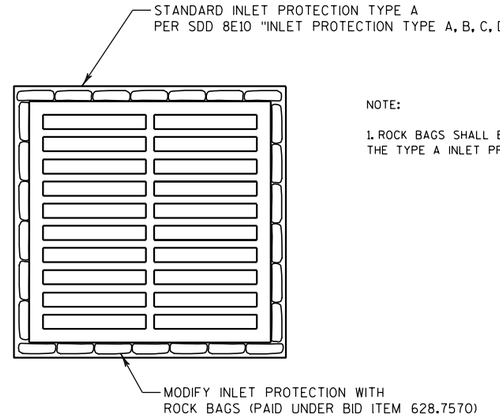
RELIEF TRENCH

SEE PLAN DETAILS FOR RELIEF TRENCH LOCATIONS.

NOTE: EXCAVATION FOR RELIEF TRENCHES TO BE PAID UNDER THE ITEM EXCAVATION COMMON



HEAVY DUTY SILT FENCE

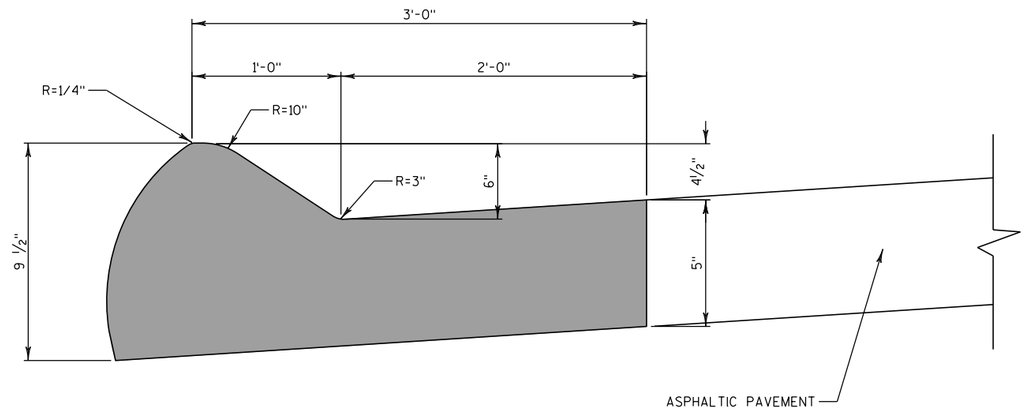


NOTE:

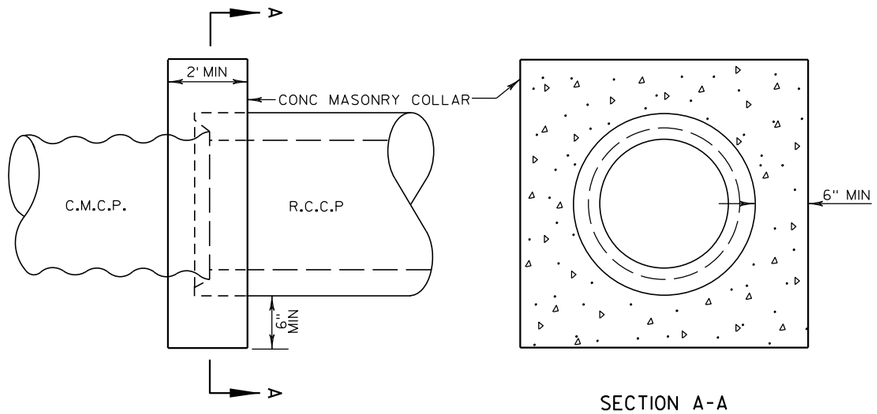
1. ROCK BAGS SHALL BE LAID END TO END INSIDE THE TYPE A INLET PROTECTION

INLET PROTECTION TYPE A MODIFIED DETAIL

2

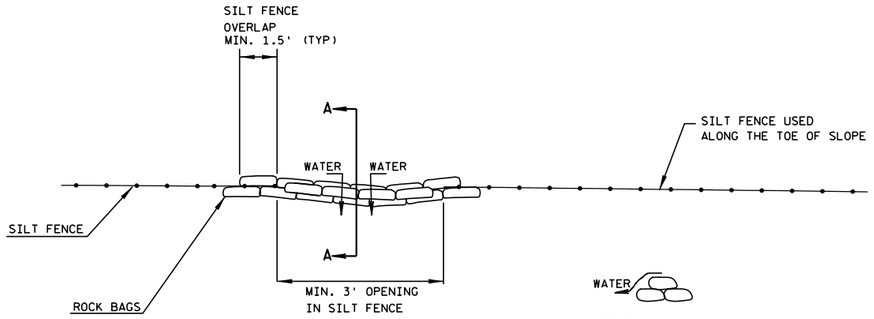


ASPHALTIC CURB



SECTION A-A

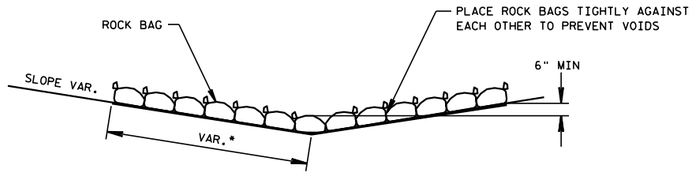
CONNECTION DETAIL R.C.C.P. TO C.M.C.P.



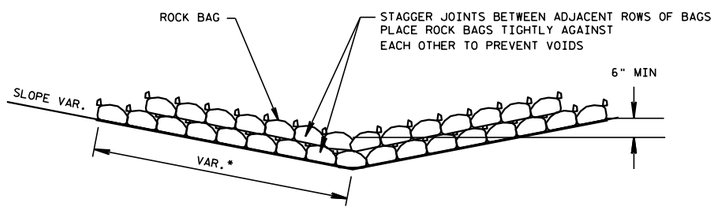
TOP VIEW

SECTION A-A

ROCK BAGS USED FOR SILT FENCE RELIEF DETAIL



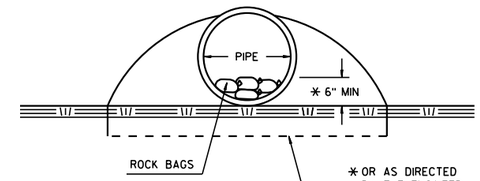
SIDE VIEW (SINGLE LAYER)



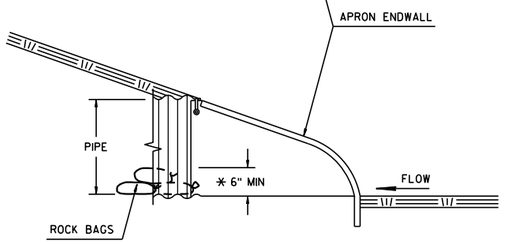
* LENGTH AND NUMBER OF BAGS MAY VARY
DEPENDING ON DESIRED DEPTH OF WATER POOL

SIDE VIEW (MULTIPLE LAYER)

DITCH CHECKS

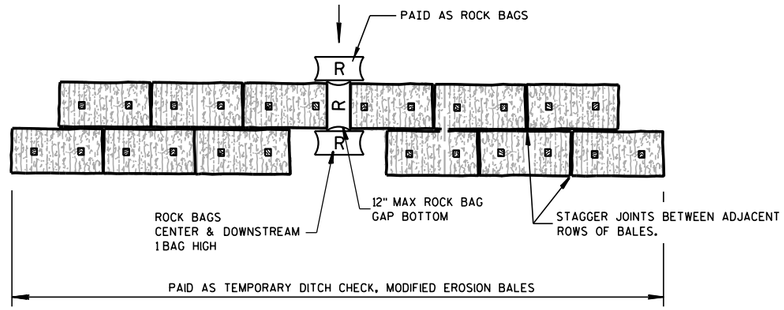


END VIEW

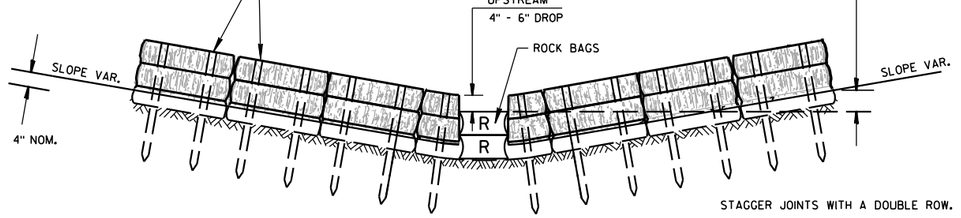


SIDE VIEW

CULVERT PIPE ENDS



PLAN VIEW



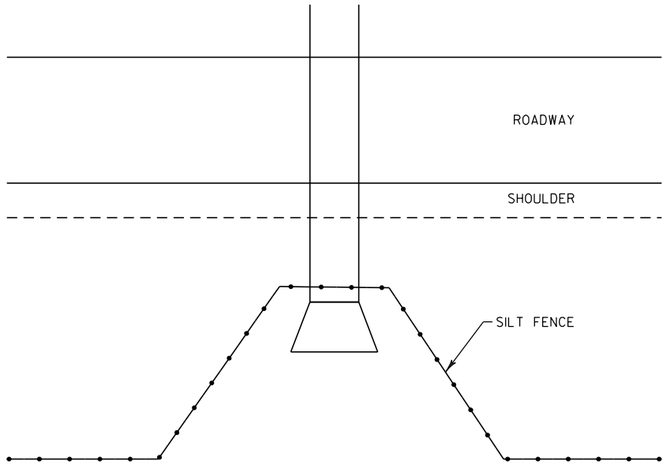
FRONT ELEVATION

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

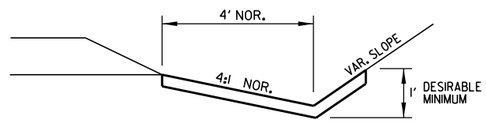
TEMPORARY DITCH CHECK, MODIFIED EROSION BALES

PROJECT NO: 1030-24-74	HWY: IH 94	COUNTY: RACINE	CONSTRUCTION DETAILS: WEST FRONTAGE ROAD	SHEET 25	E



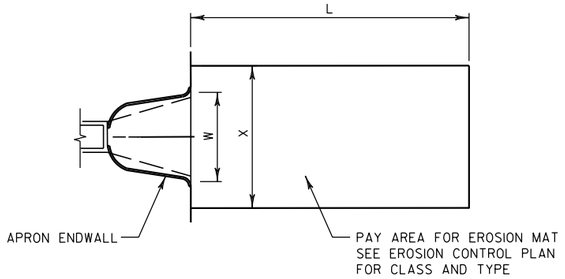
NOTE
SEE SILT FENCE SDD FOR ADDITIONAL INFORMATION.

TYPICAL SILT FENCE DETAIL AT PIPE INLET



EROSION MAT DETAIL FOR DITCHES

2



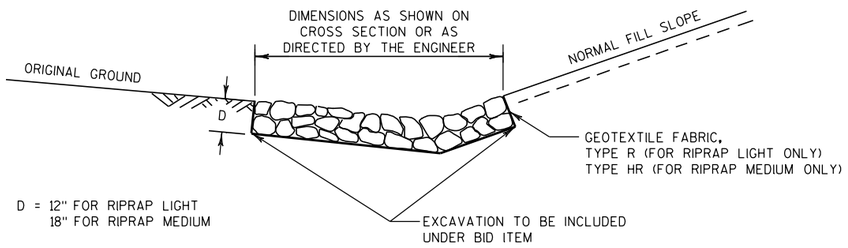
W = WIDTH OF APRON ENDWALL

L = 3 x W (NORMAL) OR 10' (MINIMUM) OR
AS INDICATED IN THE PLANS OR
AS DIRECTED BY THE ENGINEER.

X = W+2' FOR TYPICAL CULVERT
DISCHARGE INTO DITCH
W+5' FOR CULVERT DISCHARGE
DOWN EMBANKMENT SLOPE

EROSION MAT TREATMENT AT CULVERTS

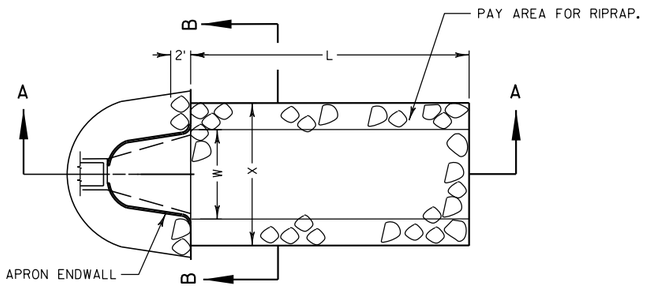
SEE EROSION CONTROL PLAN FOR LOCATIONS



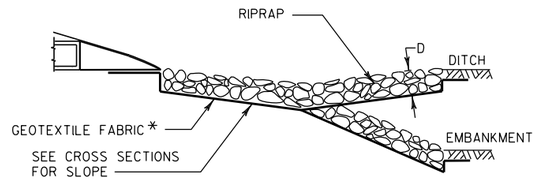
D = 12" FOR RIPRAP LIGHT
18" FOR RIPRAP MEDIUM

RIPRAP IN DITCHES

2



PLAN VIEW



SECTION A-A

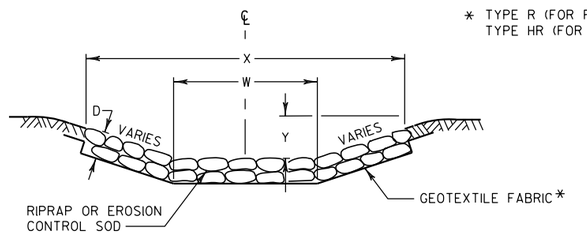
L = 3 x W (NOR) OR 10' MIN
OR AS INDICATED IN THE PLANS
OR AS DIRECTED BY THE ENGINEER

D = 12" FOR RIPRAP LIGHT
18" FOR RIPRAP MEDIUM
24" FOR RIPRAP HEAVY

X = W+2' FOR TYPICAL CULVERT
DISCHARGE INTO DITCH
W+5' FOR CULVERT DISCHARGE
DOWN EMBANKMENT SLOPE

Y = 0' FOR TYPICAL CULVERT
DISCHARGE INTO DITCH
12" FOR CULVERT DISCHARGE
DOWN EMBANKMENT SLOPE

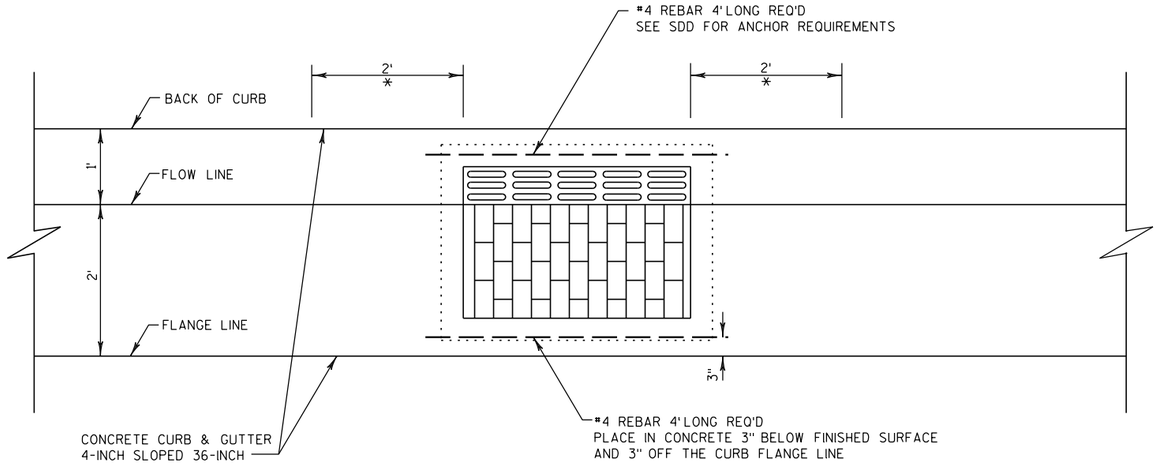
* TYPE R (FOR RIPRAP LIGHT ONLY)
TYPE HR (FOR RIPRAP HEAVY AND MEDIUM ONLY)



SECTION B-B

RIPRAP AND GEOTEXTILE FABRIC DETAIL AT APRON ENDWALLS

SEE EROSION CONTROL PLAN FOR LOCATIONS



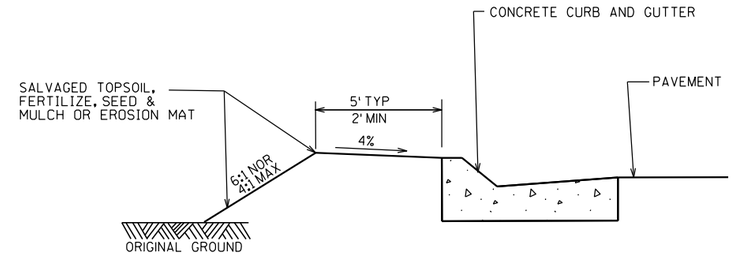
PLAN VIEW

* TRANSITION STANDARD CURB HEAD TO MATCH THE TYPE HM INLET COVER.

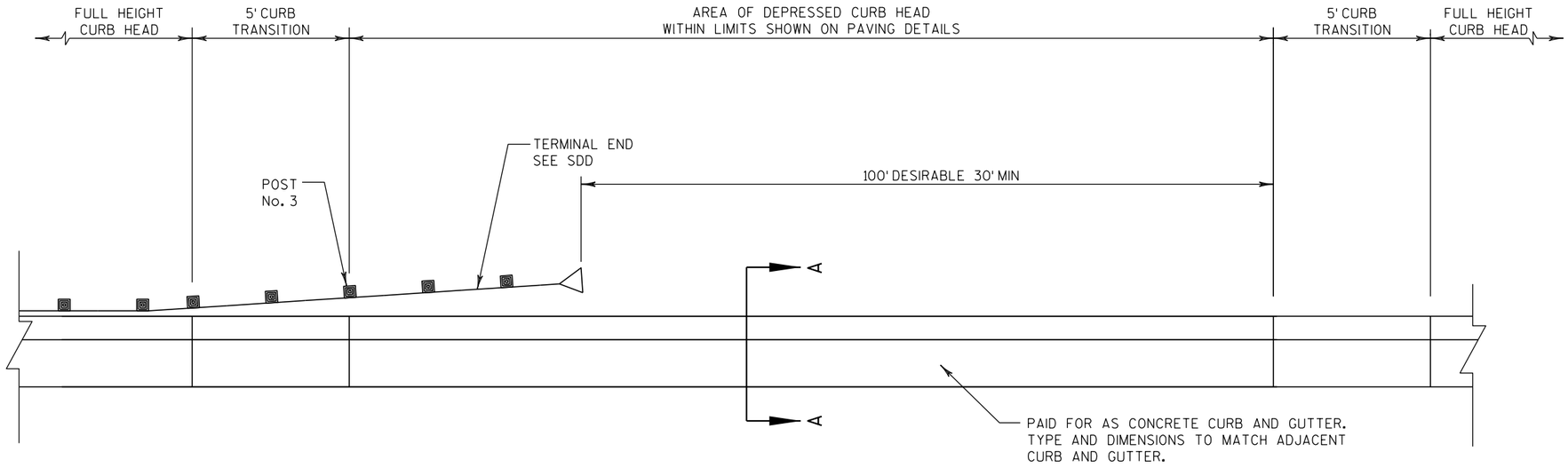
NOTES

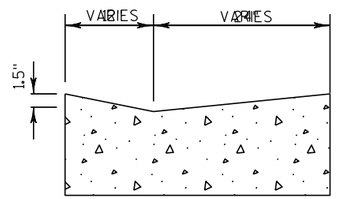
1. SEE SDD "INLET COVERS TYPE F, HM, HM-S, S, V, HM-GJ, & HM-GJ-S" FOR ADDITIONAL INFORMATION.
2. THE TWO 2-FOOT LONG CURB TRANSITION SEGMENTS ARE PAID AS CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH.
3. THE TWO 4-FOOT LENGTHS OF #4 REBAR ARE INCIDENTAL TO THE BID ITEM "INLET COVERS TYPE HM".

INLET COVERS, TYPE HM



TYPICAL PARTIAL SECTION AT INTERSECTION RADII



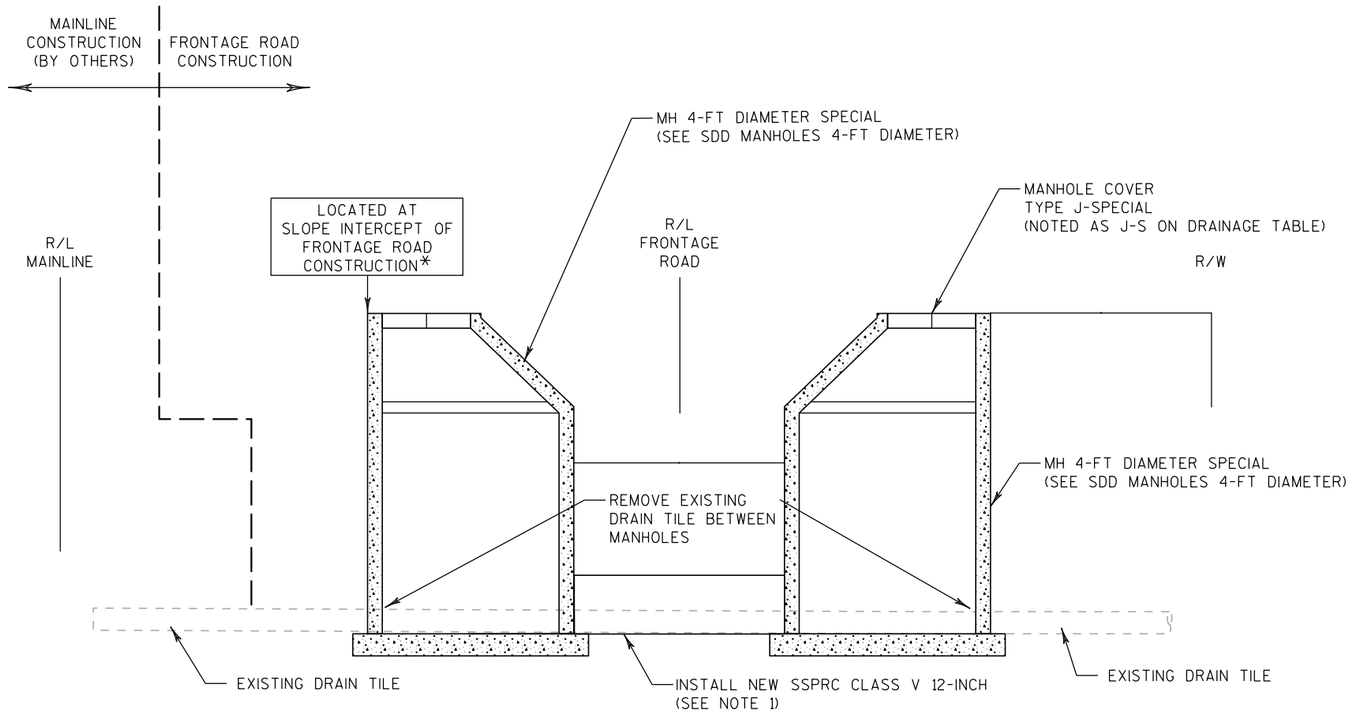


*SECTION A-A
DEPRESSED CURB

DEPRESSED CURB HEAD AT BEAM GUARD TERMINAL

PROJECT NO: 1030-24-74	HWY: IH 94	COUNTY: RACINE	CONSTRUCTION DETAILS: WEST FRONTAGE ROAD	SHEET 28	E

2



STAGING

1. FRONTAGE ROAD CONSTRUCTION:

   CONSTRUCT MANHOLE 4-FT DIAMETER SPECIAL. CONNECT EXISTING TILE TO MANHOLE. REPLACE EXISTING TILE WITH SSPRC CLASS V 12-INCH BETWEEN MANHOLES.

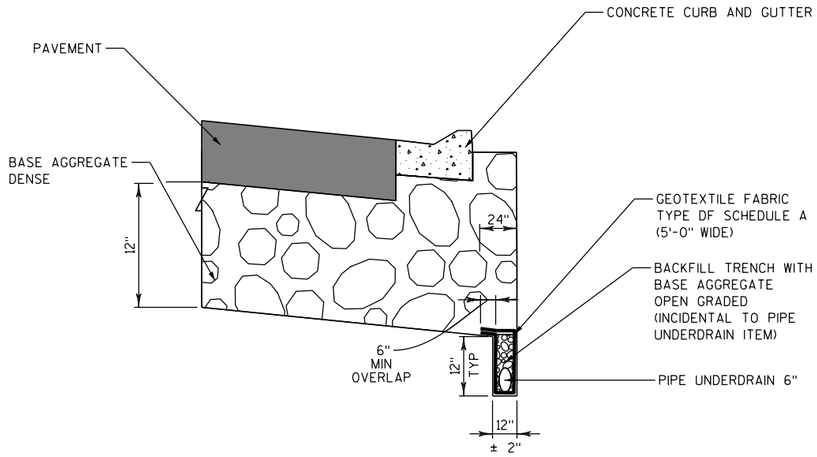
NOTES

1. IF EXISTING DRAIN TILE IS LARGER THAN 12", MATCH THE EXISTING SIZE IN THE FIELD.
2. GRADING AT MANHOLES WITHIN THE CLEAR ZONE OF THE FRONTAGE ROADS AND MAINLINE IS TO BE FLUSH WITH TOP OF THE MANHOLE.

* LOCATION CAN BE ADJUSTED AS NEEDED IF APPROVED BY THE ENGINEER

DRAIN TILE CONFIGURATION

(FOR FRONTAGE ROAD CROSSINGS)

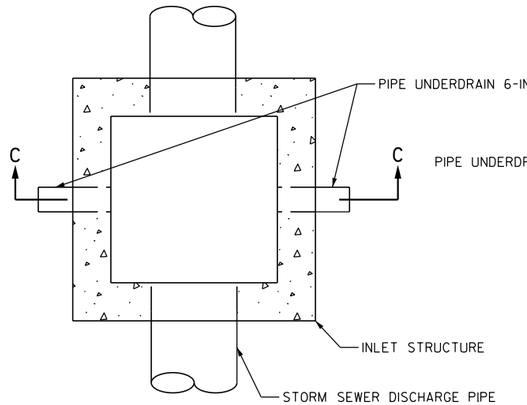


OUTSIDE SHOULDER UNDERDRAIN TRENCH DETAIL

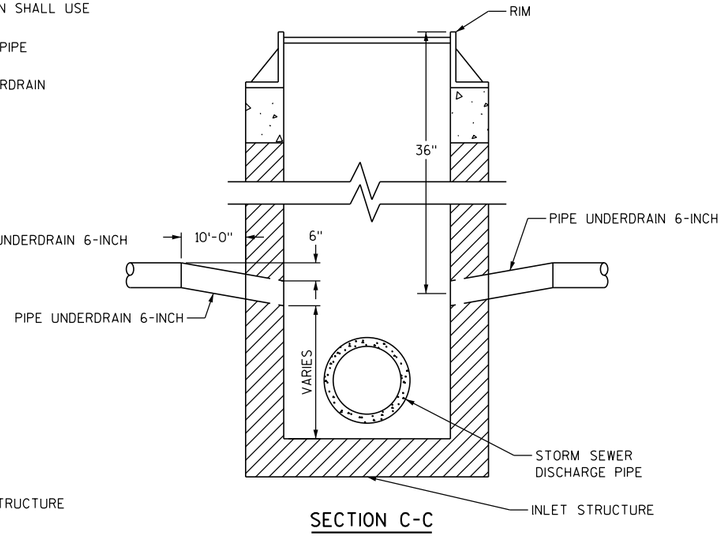
58TH ROAD
STA. 35+00, RT TO 38+15, RT

NOTES

1. CONNECTIONS TO INLETS OR MANHOLES IN MEDIAN SHALL USE PIPE UNDERDRAIN, 6-INCH.
2. PROVIDE TWO 6" DIA. OPENINGS FOR UNDERDRAIN PIPE A MINIMUM OF 36" BELOW THE RIM ELEVATION.
3. SEE TYPICAL SECTIONS, STORM SEWER, AND UNDERDRAIN PLANS FOR PIPE UNDERDRAIN LOCATIONS.



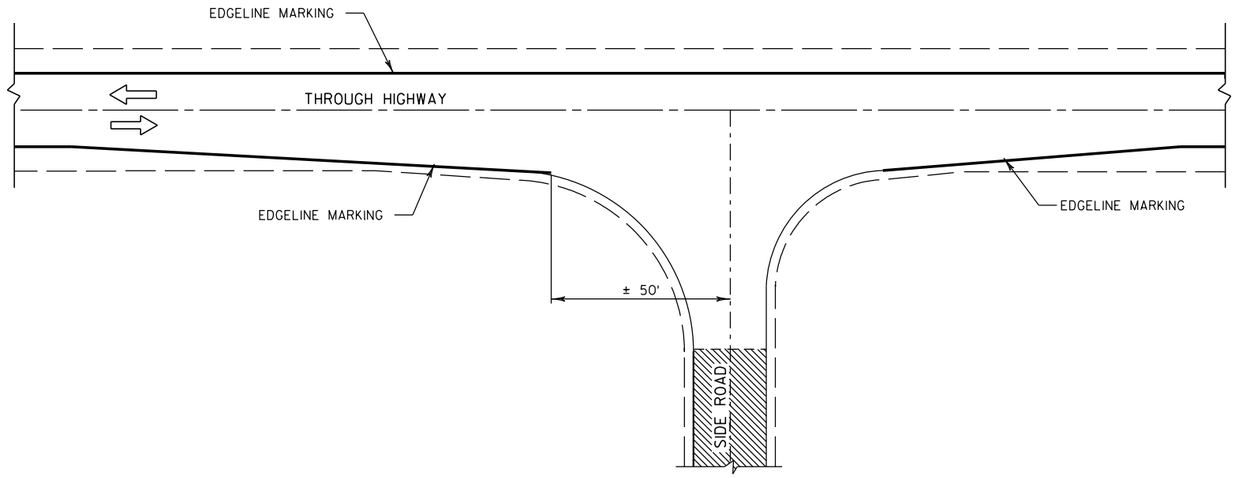
PLAN VIEW



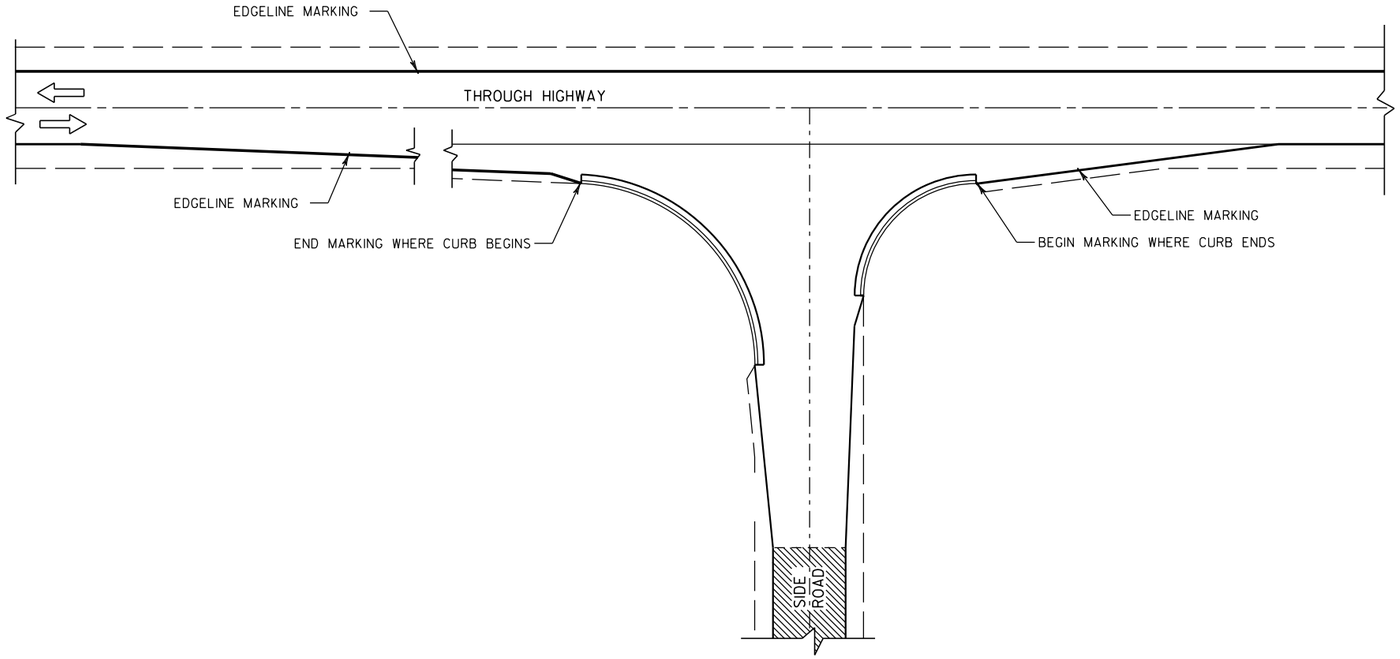
SECTION C-C

UNDERDRAIN OUTFALL AT INLET

2



MINOR INTERSECTION WITHOUT CURBS
TYPICAL MARKING



MINOR INTERSECTION WITH CURBS
TYPICAL MARKING

MINOR INTERSECTION EDGELINE MARKING

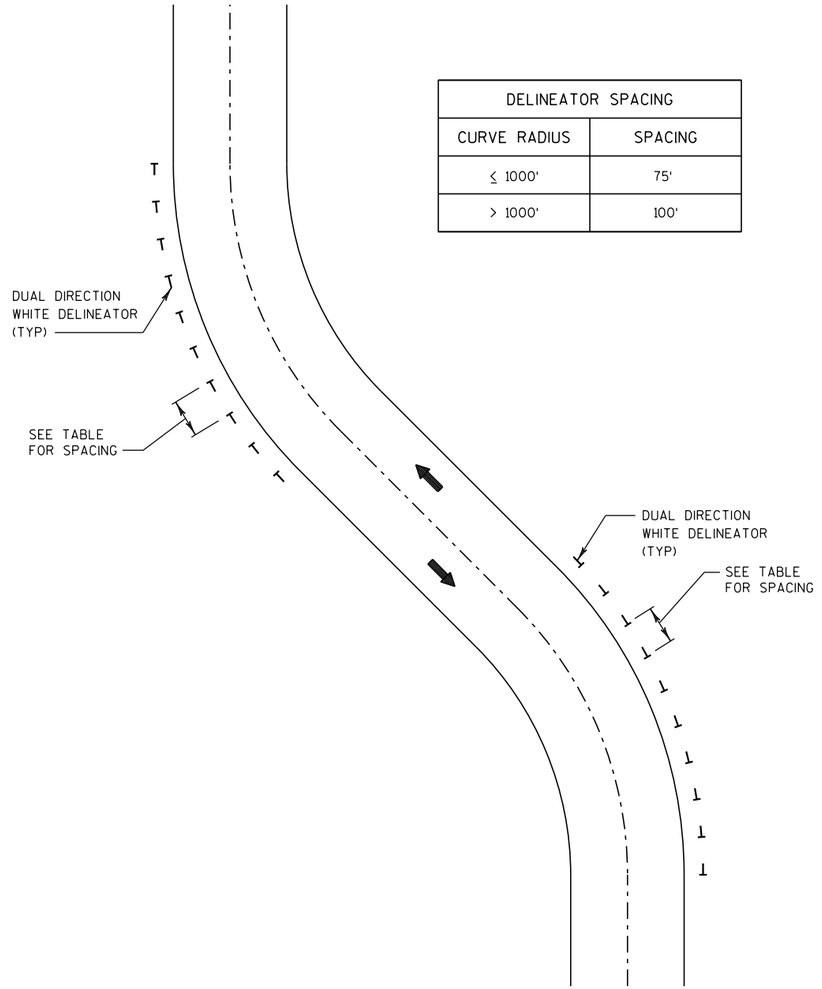
NOTES

1. DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND STANDARD DETAIL DRAWINGS.

2. DELINEATORS SHALL BE PLACED AT A CONSTANT DISTANCE FROM THE EDGE OF THE SHOULDER FOR THE LENGTH OF THE INSTALLATION.

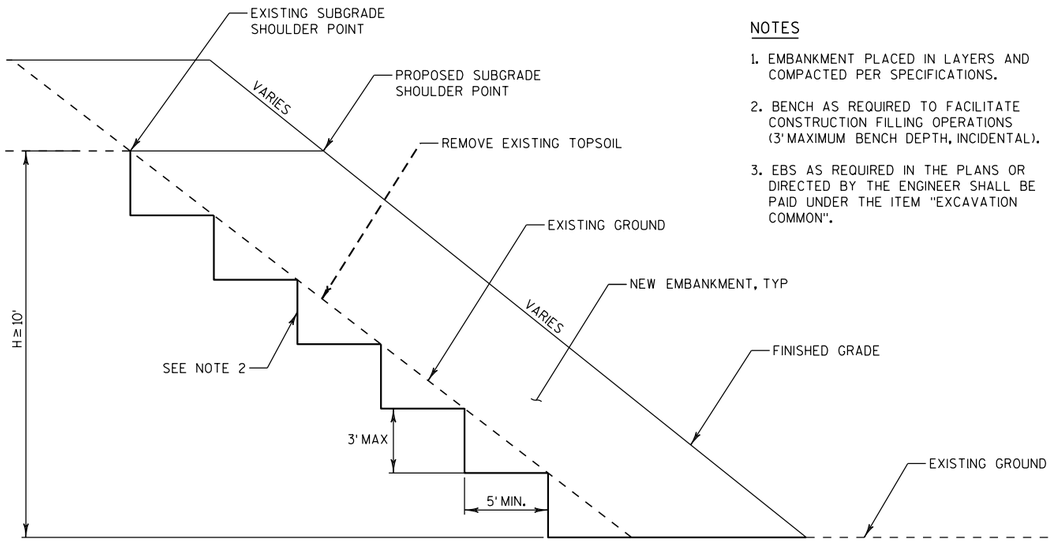
3. INSTALL POST PERPENDICULAR TO ROADWAY, AT THE POINT OF INSTALLATION, SO THAT THE DELINEATORS ARE VISIBLE FROM BOTH DIRECTION.

DELINEATOR SPACING	
CURVE RADIUS	SPACING
≤ 1000'	75'
> 1000'	100'



DELINEATOR SPACING

DELINEATOR LAYOUT ON FRONTAGE ROAD REVERSE CURVES

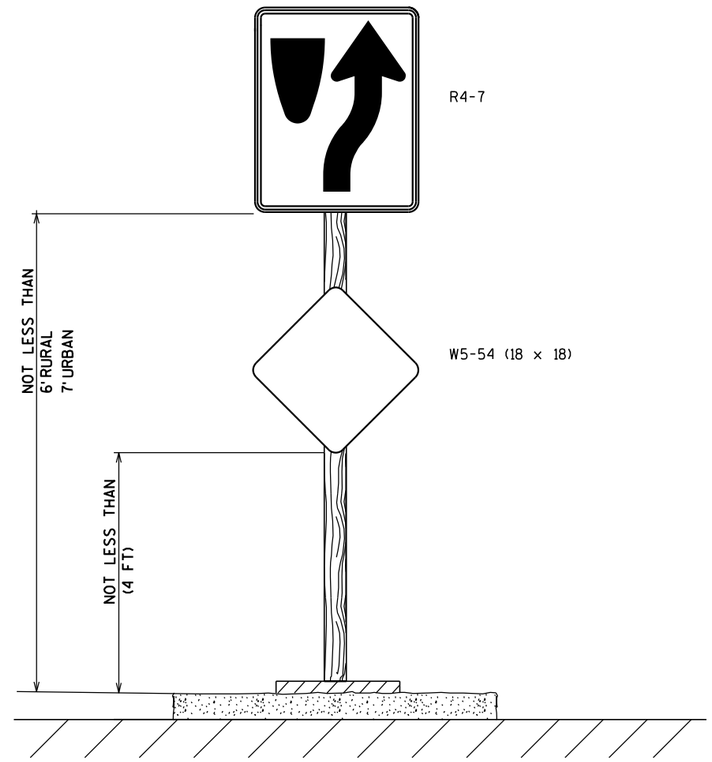


NOTES

1. EMBANKMENT PLACED IN LAYERS AND COMPACTED PER SPECIFICATIONS.
2. BENCH AS REQUIRED TO FACILITATE CONSTRUCTION FILLING OPERATIONS (3' MAXIMUM BENCH DEPTH, INCIDENTAL).
3. EBS AS REQUIRED IN THE PLANS OR DIRECTED BY THE ENGINEER SHALL BE PAID UNDER THE ITEM "EXCAVATION COMMON".

STEPPED EMBANKMENT

2



TYPICAL INSTALLATION FOR
TRANSITION TO DIVIDED HIGHWAY
OR OTHER SPECIAL NEEDS AREAS

TYPICAL DETAIL - SIGN ON MEDIAN NOSE

2

REMOVAL LEGEND

- X — CLEARING AND GRUBBING (I.D.)
- CLEARING AND GRUBBING (STA.)
- REMOVING CURB AND GUTTER
- REMOVING FENCE
- REMOVING GUARDRAIL
- REMOVING INLETS
- REMOVING MANHOLES
- REMOVING STORM SEWER, CULVERTS, OR DRAIN TILE
- SLOPE INTERCEPT

N

MATCHLINE 2748+00

BEGIN PROJECT
I.D. 1030-24-74
STA. 2737+00
= MATCH PROJECT
I.D. 1030-24-78

PROP R/W
EXIST R/W

R/L WEST FRONTAGE ROAD

WEST FRONTAGE ROAD

REMOVE SMALL PIPE CULVERT (1-12" CPCM)

REMOVE SMALL PIPE CULVERT (1-24" CPCM)

REMOVE FENCE

REMOVE FENCE

+71
57.9' LT

+35
57.7' LT

+81
46.8' LT

+26
48.0' LT

REMOVE AND REPLACE DRAINTILE WITHIN R/W LIMITS. SEE CONSTRUCTION DETAILS

REMOVE SMALL PIPE CULVERT (1-12" CPCM)

REMOVE PRIVATE BUS SHELTER (BY OTHERS)

WETLAND BOUNDARY

REMOVE SMALL PIPE CULVERT (1-12" CPCM)

+00
26.3' RT

REMOVE AND REPLACE DRAINTILE WITHIN R/W LIMITS. SEE CONSTRUCTION DETAILS

+60
81.2' RT

R/L SB ON RAMP

IH 94 SB

R/L IH 94

IH 94 NB

R/L NB OFF RAMP

R/L EAST FRONTAGE ROAD

EAST FRONTAGE ROAD

PROJECT NO: 1030-24-74	HWY: IH 94	COUNTY: RACINE	REMOVAL PLAN: WEST FRONTAGE ROAD	SHEET	E

FILE NAME : Z:\Racine\CADDS\13\13W\CDS\021101_RM.dgn
PLOT DATE : 7/27/2017
PLOT BY : cory.ihde
PLOT NAME :
PLOT SCALE : 1:100
WISDOT/CADDS SHEET 42

2

REMOVAL LEGEND

- X — CLEARING AND GRUBBING (I.D.)
- CLEARING AND GRUBBING (STA.)
- REMOVING CURB AND GUTTER
- REMOVING FENCE
- REMOVING GUARDRAIL
- REMOVING INLETS
- REMOVING MANHOLES
- REMOVING STORM SEWER, CULVERTS, OR DRAIN TILE
- SLOPE INTERCEPT

N

R/L WEST FRONTAGE ROAD

REMOVE SMALL PIPE CULVERT (1-12" CPCM)

TLE

PROP R/W

EXIST R/W

RM

MATCHLINE 2748+00

748 2750 2752 2754 2756 2758

WEST FRONTAGE ROAD

REMOVE AND REPLACE DRAINTILE WITHIN R/W LIMITS. SEE CONSTRUCTION DETAILS

REMOVE SMALL PIPE CULVERT (1-12" CPCM)

REMOVE SMALL PIPE CULVERT (1-12" CPCM)

REMOVE MARKER

REMOVE AND REPLACE DRAINTILE WITHIN R/W LIMITS. SEE CONSTRUCTION DETAILS

REMOVE APRON END WALL (1-30" AEW)

REMOVE MARKER

PROP R/W

EXIST R/W

REMOVE SMALL PIPE CULVERT (1-18" CPCM)

REMOVE APRON END WALL (1-30" AEW)

MATCHLINE 2758+13

R/L SB ON RAMP

746 748 750 752

IH 94 SB ON RAMP

R/L SB OFF RAMP

744 746 742 754

IH 94 SB OFF RAMP

R/L STH 11

118 120 122 124

PROJECT NO: 1030-24-74	HWY: IH 94	COUNTY: RACINE	REMOVAL PLAN: WEST FRONTAGE ROAD	SHEET 36	E

FILE NAME : Z:\Racine\CADDS\13\13W\CDS\021102_RM.dgn PLOT DATE : 7/27/2017 PLOT BY : cory.ihde PLOT NAME : PLOT SCALE : 1:100

NOTE:
OBLITERATING OLD ROAD LIMITS ARE 18-INCHES DEEP FROM EXISTING GROUND AND APPROXIMATELY 6-FEET OUTSIDE EDGE OF SHOULDER. RESTORE PER STANDARD SPECIFICATION. ADJUST GRADING LIMITS IN FIELD AS NECESSARY TO FACILITATE DRAINAGE AND ELIMINATE PONDING.

AVOID ANY ADDITIONAL IMPACTS TO THE REMNANTS OF THE BARNES PRAIRIE

REMOVE SMALL PIPE CULVERT (1-36" HDPE)

REMOVE APRON END WALL (1-18" AEW)

REMOVE SMALL PIPE CULVERT (1-18" CPCM)

REMOVE APRON END WALL (1-24" AEW)

REMOVE CURB AND GUTTER

REMOVE SMALL PIPE CULVERT (1-18" CPCM)

REMOVE SMALL PIPE CULVERT (1-18" CPCM)

REMOVE CURB AND GUTTER

REMOVE CURB AND GUTTER

OBLITERATE OLD ROAD

APPROXIMATE OBLITERATE OLD ROAD LIMITS

REMOVE SMALL PIPE CULVERT (1-18" CPCM)

REMOVE SMALL PIPE CULVERT (1-18" CPCM)

REMOVE SMALL PIPE CULVERT (1-18" CPCM)

REMOVE SMALL PIPE CULVERT (1-18" CPCM)

REMOVE SMALL PIPE CULVERT (1-18" CPCM)

REMOVE SMALL PIPE CULVERT (1-48" CPCM)

REMOVE APRON END WALL (1-24" AEW)

REMOVE AND REPLACE DRAINTILE WITHIN R/W LIMITS. SEE CONSTRUCTION DETAIL

REMOVE AND REPLACE DRAINTILE WITHIN R/W LIMITS. SEE CONSTRUCTION DETAIL

SEPTIC SYSTEM TO BE REMOVED BY OTHERS

REMOVING PERMANENT BARRICADES TYPE III

STH 11

S. SYLVANIA AVE.

58TH ROAD

R/L 58TH ROAD

WEST FRONTAGE ROAD

R/L WEST FRONTAGE ROAD

R/L STH 11

MATCHLINE 2758+13

MATCHLINE 40+00

MATCHLINE 4761+00

SOO LINE RAILROAD CO.

4752 4754 4756 4758 4760 4762 4764 4766

120 122 124 126

34 36 38

EXIST R/W

PROP R/W

TLE

RM

SIGN

RIPRAP

WALLS

OH

INL SS

CAUTION

STA 4761+50 TO STA 4772+50, 60' LT TO 65' RT
SUBGRADE FILL MATERIAL WAS PREVIOUSLY PLACED BY OTHERS UNDER PROJECT ID 1030-24-76.
REMOVE TOPSOIL AS REQUIRED WITHIN THE SLOPE INTERCEPTS PRIOR TO PLACING ANY REQUIRED FILL MATERIAL.
REMOVE EXCESS FILL MATERIAL PLACED OVER CULVERT PIPES. PROTECT EXISTING CULVERT PIPES FROM DAMAGE DURING CONSTRUCTION. TOP SOIL REMOVAL WITHIN ROADBED TO BE PAID FOR UNDER ITEM PREPARE FOUNDATION FOR BASE AGGREGATE. TOPSOIL REMOVAL BETWEEN THE SUBGRADE SHOULDER POINT AND THE SLOPE INTERCEPT TO BE PAID FOR UNDER ITEM SALVAGED TOPSOIL.

NOTE:
REMOVALS FROM STA 4761+50 TO STA 4772+50 COMPLETED PREVIOUSLY BY OTHERS UNDER PROJECT ID 1030-24-76, FRONTAGE ROAD GRADING

STA 4765+15, RT AND STA 4765+53, RT DRAIN TILES LOCATED BY OTHERS UNDER PROJECT ID 1030-24-76. REMOVE AND REPLACE DRAINTILES FROM WITHIN R/W LIMITS. SEE CONSTRUCTION DETAILS AND PLAN AND PROFILE SHEETS FOR ADDITIONAL INFORMATION.

STA 4765+00 TO STA 4766+00 BERM CONSTRUCTED BY OTHERS UNDER ID 1320-20-60. BERM TO REMAIN IN PLACE. CONTRACTOR TO RECONSTRUCT BERM IF DISTURBED.

BURIED TILE

BURIED TILE

REMOVAL LEGEND

- X — CLEARING AND GRUBBING (I.D.)
- CLEARING AND GRUBBING (STA.)
- REMOVING CURB AND GUTTER
- REMOVING FENCE
- REMOVING GUARDRAIL
- REMOVING INLETS
- REMOVING MANHOLES
- REMOVING STORM SEWER, CULVERTS, OR DRAIN TILE
- SLOPE INTERCEPT

PROJECT NO: 1030-24-74	HWY: IH 94	COUNTY: RACINE	REMOVAL PLAN: WEST FRONTAGE ROAD	SHEET 37	E

REMOVAL LEGEND

- X — CLEARING AND GRUBBING (I.D.)
- ⊠ — CLEARING AND GRUBBING (STA.)
- REMOVING CURB AND GUTTER
- —x— REMOVING FENCE
- —•— REMOVING GUARDRAIL
- REMOVING INLETS
- ⊗ — REMOVING MANHOLES
- ——— REMOVING STORM SEWER, CULVERTS, OR DRAIN TILE
- – – – SLOPE INTERCEPT

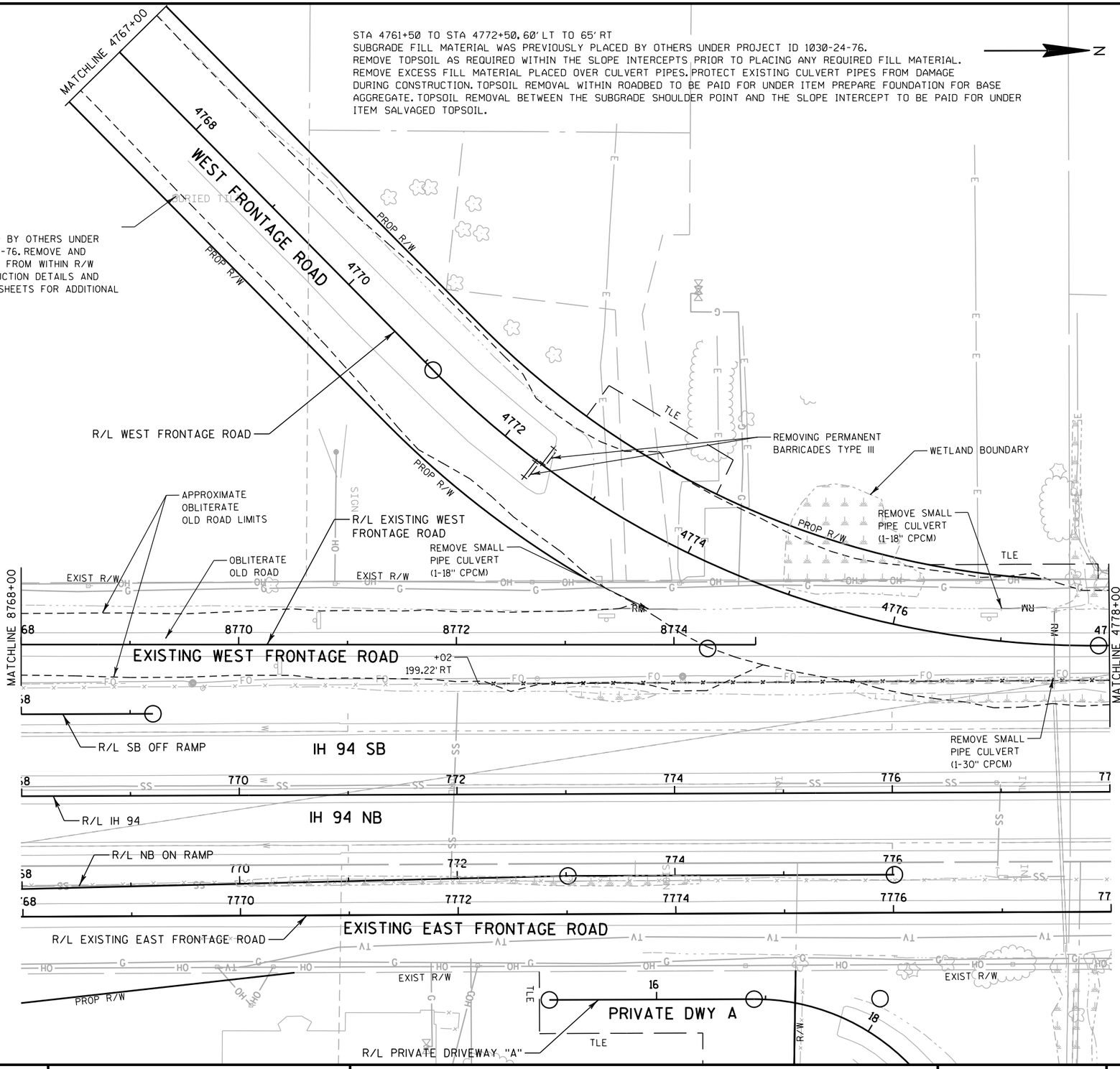
NOTE:

REMOVALS FROM STA 4761+50 TO STA 4772+50 COMPLETED BY OTHERS UNDER PROJECT ID 1030-24-76, FRONTAGE ROAD GRADING

NOTE:
OBLITERATING OLD ROAD LIMITS ARE 18-INCHES DEEP FROM EXISTING GROUND AND APPROXIMATELY 6-FEET OUTSIDE EDGE OF SHOULDER. RESTORE PER STANDARD SPECIFICATION. ADJUST GRADING LIMITS IN FIELD AS NECESSARY TO FACILITATE DRAINAGE AND ELIMINATE PONDING.

STA 4761+50 TO STA 4772+50, 60' LT TO 65' RT
SUBGRADE FILL MATERIAL WAS PREVIOUSLY PLACED BY OTHERS UNDER PROJECT ID 1030-24-76.
REMOVE TOPSOIL AS REQUIRED WITHIN THE SLOPE INTERCEPTS PRIOR TO PLACING ANY REQUIRED FILL MATERIAL.
REMOVE EXCESS FILL MATERIAL PLACED OVER CULVERT PIPES. PROTECT EXISTING CULVERT PIPES FROM DAMAGE DURING CONSTRUCTION. TOPSOIL REMOVAL WITHIN ROADBED TO BE PAID FOR UNDER ITEM PREPARE FOUNDATION FOR BASE AGGREGATE. TOPSOIL REMOVAL BETWEEN THE SUBGRADE SHOULDER POINT AND THE SLOPE INTERCEPT TO BE PAID FOR UNDER ITEM SALVAGED TOPSOIL.

STA 4768+34, RT
DRAIN TILE LOCATED BY OTHERS UNDER PROJECT ID 1030-24-76. REMOVE AND REPLACE DRAINTILES FROM WITHIN R/W LIMITS. SEE CONSTRUCTION DETAILS AND PLAN AND PROFILE SHEETS FOR ADDITIONAL INFORMATION.



PROJECT NO: 1030-24-74	HWY: IH 94	COUNTY: RACINE	REMOVAL PLAN: WEST FRONTAGE ROAD	SHEET 38	E

REMOVAL LEGEND

- X — CLEARING AND GRUBBING (I.D.)
- CLEARING AND GRUBBING (STA.)
- REMOVING CURB AND GUTTER
- REMOVING FENCE
- REMOVING GUARDRAIL
- REMOVING INLETS
- REMOVING MANHOLES
- REMOVING STORM SEWER, CULVERTS, OR DRAIN TILE
- SLOPE INTERCEPT

N

WETLAND BOUNDARY

CAUTION

REMOVE SMALL PIPE CULVERT (1-18" CPCM)

REMOVE APRON END WALL (1-18" AEW)

REMOVE SMALL PIPE CULVERT (1-18" CPCM)

R/L WEST FRONTAGE ROAD

TLE

EXIST R/W

MATCHLINE 4778+00

4780

4782

4784

WEST FRONTAGE ROAD

+00 34.7' RT

REMOVE SMALL PIPE CULVERT (1-30" CPCM)

IH 94 SB

IH 94 NB

R/L IH 94

R/L EXISTING EAST FRONTAGE ROAD

EXISTING EAST FRONTAGE ROAD

R/L EAST FRONTAGE ROAD

EAST FRONTAGE ROAD

PROP R/W

R/L LOUIS SORENSON ROAD

LOUIS SORENSON ROAD

52L

56TH ROAD

END PROJECT
I.D. 1030-24-74
STA. 4785+00
= MATCH PROJECT
I.D. 1033-02-78

SEPTIC

WELL

POOL

A.C.

ANT

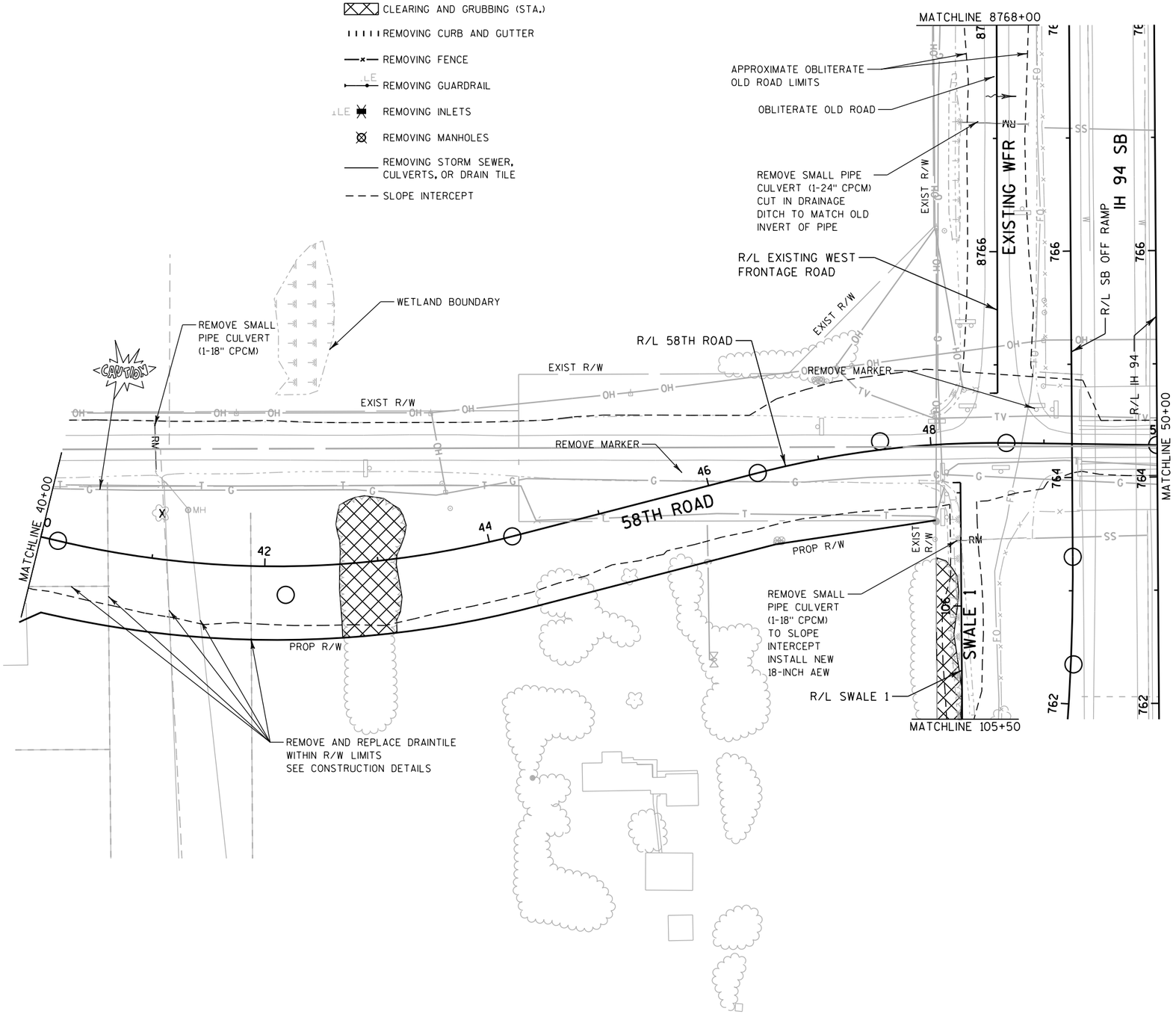
SIGN

PROJECT NO: 1030-24-74	HWY: IH 94	COUNTY: RACINE	REMOVAL PLAN: WEST FRONTAGE ROAD	SHEET 39 E

FILE NAME : Z:\Racine\CADDS\13\13W\CDS\021105_RM.dgn PLOT DATE : 7/27/2017 PLOT BY : cory.ihde PLOT NAME : PLOT SCALE : 1:100

REMOVAL LEGEND

- X — CLEARING AND GRUBBING (I.D.)
- CLEARING AND GRUBBING (STA.)
- REMOVING CURB AND GUTTER
- REMOVING FENCE
- REMOVING GUARDRAIL
- REMOVING INLETS
- REMOVING MANHOLES
- REMOVING STORM SEWER, CULVERTS, OR DRAIN TILE
- SLOPE INTERCEPT



PROJECT NO: 1030-24-74	HWY: IH 94	COUNTY: RACINE	REMOVAL PLAN: 58TH ROAD	SHEET 40	E

FILE NAME : Z:\Racine\CADDS\13\13W\CDS\021106_RM.dgn PLOT DATE : 7/27/2017 PLOT BY : cory.ihde PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

2

2

N

REMOVAL LEGEND

- X — CLEARING AND GRUBBING (L.D.)
- CLEARING AND GRUBBING (STA.)
- REMOVING CURB AND GUTTER
- REMOVING FENCE
- REMOVING GUARDRAIL
- REMOVING INLETS
- REMOVING MANHOLES
- REMOVING STORM SEWER, CULVERTS, OR DRAIN TILE
- SLOPE INTERCEPT

IH 94 NB

R/L NB ON RAMP

EXISTING EFR

R/L EXISTING EAST FRONTAGE ROAD

EXIST R/W

WETLAND BOUNDARY

REMOVE MARKER

REMOVE SMALL PIPE CULVERT (1-24" CPCM)

REMOVE SMALL PIPE CULVERT (1-18" CPCM)

REMOVE AND REPLACE DRAINTILE WITHIN R/W LIMITS. SEE CONSTRUCTION DETAILS

REMOVE SMALL PIPE CULVERT (1-18" CPCM)

REMOVE SMALL PIPE CULVERT (1-18" CPCM)

PROP R/W

R/L EAST FRONTAGE ROAD

R/L 58TH ROAD

58TH ROAD

R/L IH 94

MATCHLINE 54+00

REMOVE MARKER

REMOVE SMALL PIPE CULVERT (1-18" CPCM)

REMOVE GUARDRAIL

MATCHLINE 79B+00

CAUTION

R/L ACCESS ROAD "B"

REMOVE SMALL PIPE CULVERT (1-12" CPCM)

TLE

BURIED TILE

END CONSTRUCTION
I.D. 1030-24-74
STA 57+72
=MATCH PROJECT
I.D. 1030-24-70

EAST FRONTAGE ROAD

SEPTIC

SEPC

PROJECT NO: 1030-24-74	HWY: IH 94	COUNTY: RACINE	REMOVAL PLAN: 58TH ROAD	SHEET 41	E

FILE NAME : Z:\Racine\CADDS\13\13W\CDS\021107_RM.dgn PLOT DATE : 7/27/2017 PLOT BY : cory.ihde PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

N

MATCHLINE 132+00

PROP R/W

EXIST R/W

SWALE #1

MATCHLINE 105+50

R/L SWALE 1

IH 94 SB

R/L SB OFF RAMP

IH 94 NB

R/L IH 94

REMOVE SMALL PIPE CULVERT (1-18" CPCM)

WETLAND BOUNDARY

R/L NB ON RAMP

SWALE #2

R/L SWALE 2

REMOVE SMALL PIPE CULVERT (1-12" CPCM)

ACCESS ROAD B

MATCHLINE 79B+00

R/L ACCESS ROAD "B"

CAUTION

STH 11

R/L STH 11

SOO LINE RAILROAD CO.

R/L NB ON RAMP

IH 94 NB ON RAMP

IH 94 NB OFF RAMP

R/L NB OFF RAMP

USE THE ABANDONED CANADIAN PACIFIC RAILROAD GRADE TO ACCESS THIS WORK AREA. SEE EROSION CONTROL PLANS FOR ADDITIONAL REQUIREMENTS.

SLOPE INTERCEPT

CANADIAN PACIFIC

MATCHLINE 132+00

REMOVAL LEGEND

- X — CLEARING AND GRUBBING (I.D.)
- CLEARING AND GRUBBING (STA.)
- REMOVING CURB AND GUTTER
- REMOVING FENCE
- REMOVING GUARDRAIL
- REMOVING INLETS
- REMOVING MANHOLES
- REMOVING STORM SEWER, CULVERTS, OR DRAIN TILE
- SLOPE INTERCEPT

PROJECT NO: 1030-24-74	HWY: IH 94	COUNTY: RACINE	REMOVAL PLAN: ACCESS ROAD "B"	SHEET 42	E

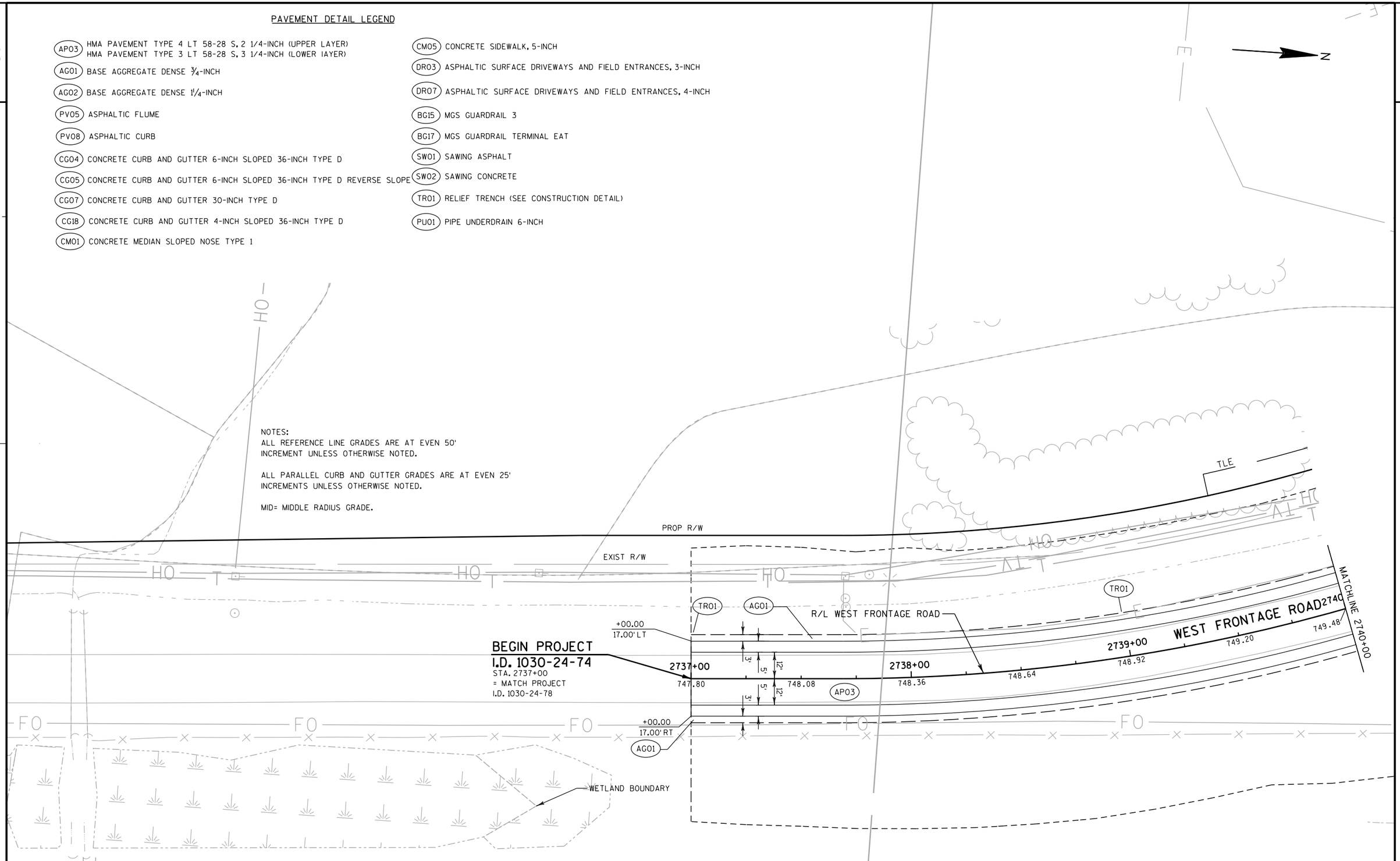
PAVEMENT DETAIL LEGEND

- APO3 HMA PAVEMENT TYPE 4 LT 58-28 S, 2 1/4-INCH (UPPER LAYER)
  HMA PAVEMENT TYPE 3 LT 58-28 S, 3 1/4-INCH (LOWER IAYER)
- AGO1 BASE AGGREGATE DENSE ¾-INCH
- AGO2 BASE AGGREGATE DENSE 1¼-INCH
- PVO5 ASPHALTIC FLUME
- PVO8 ASPHALTIC CURB
- CGO4 CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
- CGO5 CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D REVERSE SLOPE
- CGO7 CONCRETE CURB AND GUTTER 30-INCH TYPE D
- CG18 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- CMO1 CONCRETE MEDIAN SLOPED NOSE TYPE 1
- CMO5 CONCRETE SIDEWALK, 5-INCH
- DRO3 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- DRO7 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 4-INCH
- BG15 MGS GUARDRAIL 3
- BG17 MGS GUARDRAIL TERMINAL EAT
- SWO1 SAWING ASPHALT
- SWO2 SAWING CONCRETE
- TRO1 RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- PUO1 PIPE UNDERDRAIN 6-INCH

NOTES:
ALL REFERENCE LINE GRADES ARE AT EVEN 50'
INCREMENT UNLESS OTHERWISE NOTED.

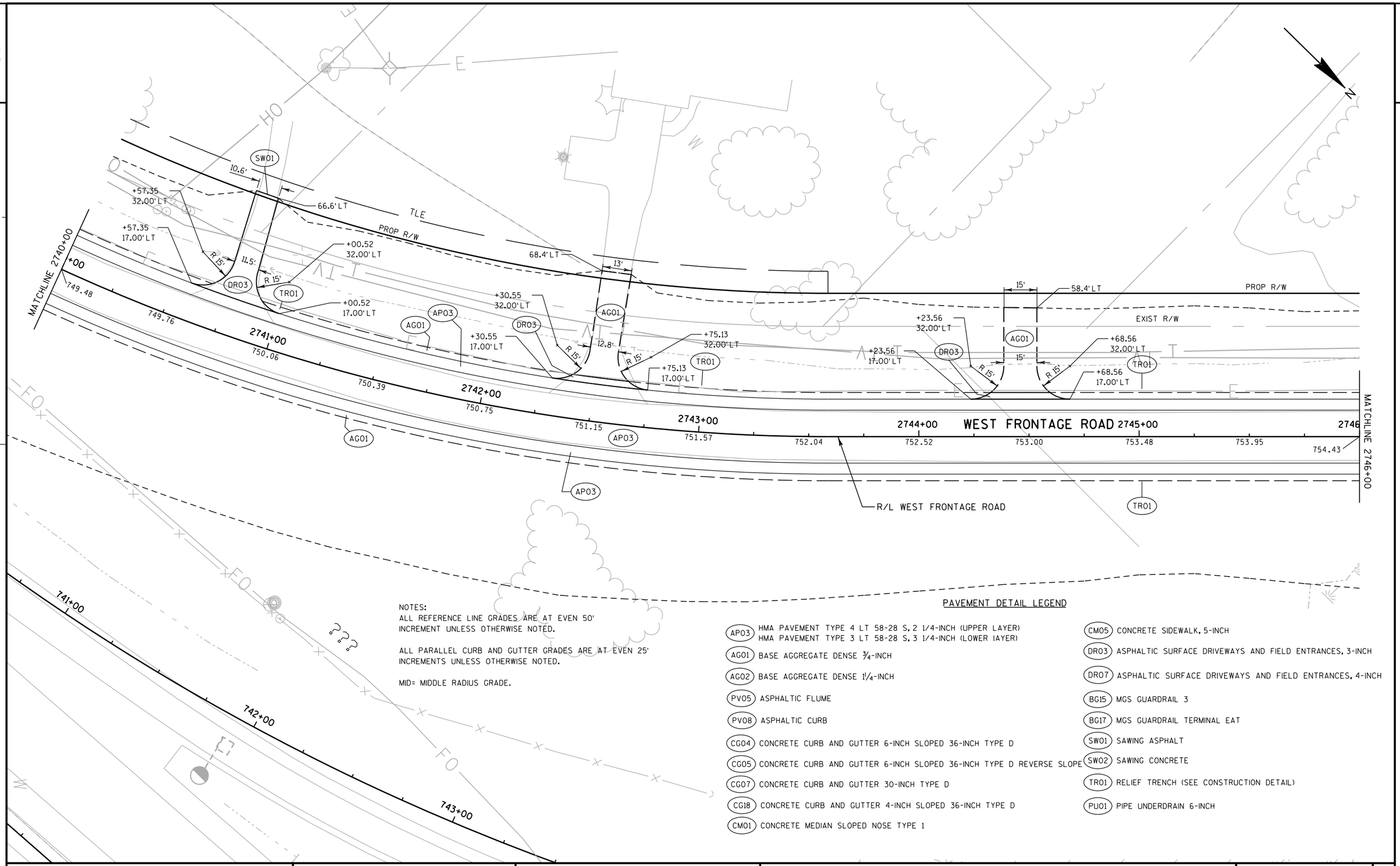
ALL PARALLEL CURB AND GUTTER GRADES ARE AT EVEN 25'
INCREMENTS UNLESS OTHERWISE NOTED.

MID= MIDDLE RADIUS GRADE.



PROJECT NO: 1030-24-74	HWY: IH 94	COUNTY: RACINE	PLAN DETAILS: WEST FRONTAGE ROAD	SHEET 43	E

2



NOTES:
ALL REFERENCE LINE GRADES ARE AT EVEN 50' INCREMENT UNLESS OTHERWISE NOTED.

ALL PARALLEL CURB AND GUTTER GRADES ARE AT EVEN 25' INCREMENTS UNLESS OTHERWISE NOTED.

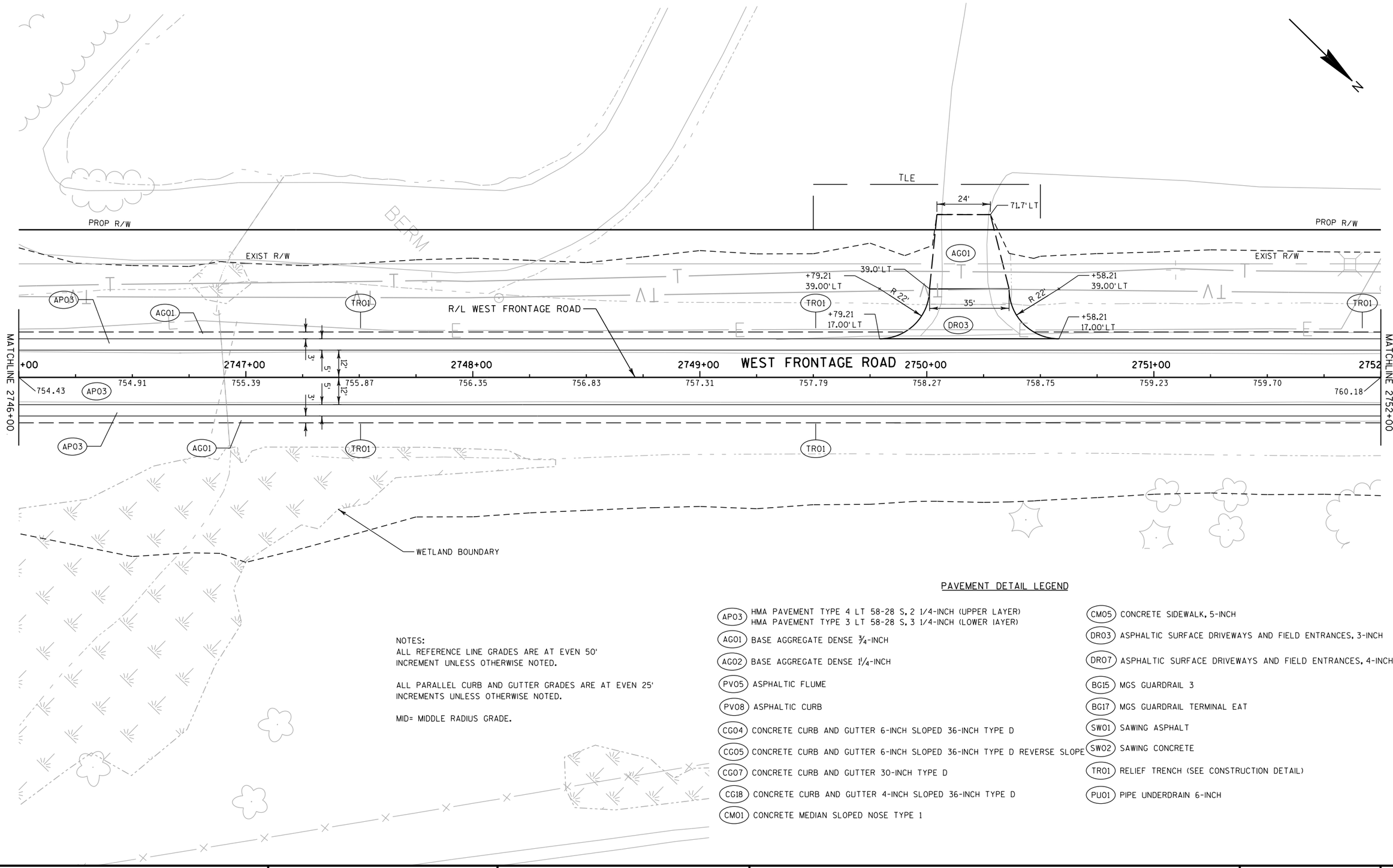
MID= MIDDLE RADIUS GRADE.

PAVEMENT DETAIL LEGEND

- (AP03) HMA PAVEMENT TYPE 4 LT 58-28 S, 2 1/4-INCH (UPPER LAYER) HMA PAVEMENT TYPE 3 LT 58-28 S, 3 1/4-INCH (LOWER IAYER)
- (AG01) BASE AGGREGATE DENSE ¾-INCH
- (AG02) BASE AGGREGATE DENSE 1¼-INCH
- (PV05) ASPHALTIC FLUME
- (PV08) ASPHALTIC CURB
- (CG04) CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
- (CG05) CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D REVERSE SLOPE
- (CG07) CONCRETE CURB AND GUTTER 30-INCH TYPE D
- (CG18) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- (CM01) CONCRETE MEDIAN SLOPED NOSE TYPE 1
- (CM05) CONCRETE SIDEWALK, 5-INCH
- (DR03) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- (DR07) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 4-INCH
- (BG15) MGS GUARDRAIL 3
- (BG17) MGS GUARDRAIL TERMINAL EAT
- (SW01) SAWING ASPHALT
- (SW02) SAWING CONCRETE
- (TR01) RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- (PU01) PIPE UNDERDRAIN 6-INCH

PROJECT NO: 1030-24-74	HWY: IH 94	COUNTY: RACINE	PLAN DETAILS: WEST FRONTAGE ROAD	SHEET 44	E

2



NOTES:
ALL REFERENCE LINE GRADES ARE AT EVEN 50' INCREMENT UNLESS OTHERWISE NOTED.

ALL PARALLEL CURB AND GUTTER GRADES ARE AT EVEN 25' INCREMENTS UNLESS OTHERWISE NOTED.

MID= MIDDLE RADIUS GRADE.

PAVEMENT DETAIL LEGEND

APO3	HMA PAVEMENT TYPE 4 LT 58-28 S, 2 1/4-INCH (UPPER LAYER) HMA PAVEMENT TYPE 3 LT 58-28 S, 3 1/4-INCH (LOWER IAYER)
AGO1	BASE AGGREGATE DENSE ¾-INCH
AGO2	BASE AGGREGATE DENSE 1¼-INCH
PVO5	ASPHALTIC FLUME
PVO8	ASPHALTIC CURB
CGO4	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
CGO5	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D REVERSE SLOPE
CGO7	CONCRETE CURB AND GUTTER 30-INCH TYPE D
CG18	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
CMO1	CONCRETE MEDIAN SLOPED NOSE TYPE 1
CMO5	CONCRETE SIDEWALK, 5-INCH
DRO3	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
DRO7	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 4-INCH
BG15	MGS GUARDRAIL 3
BG17	MGS GUARDRAIL TERMINAL EAT
SWO1	SAWING ASPHALT
SWO2	SAWING CONCRETE
TRO1	RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
PUO1	PIPE UNDERDRAIN 6-INCH

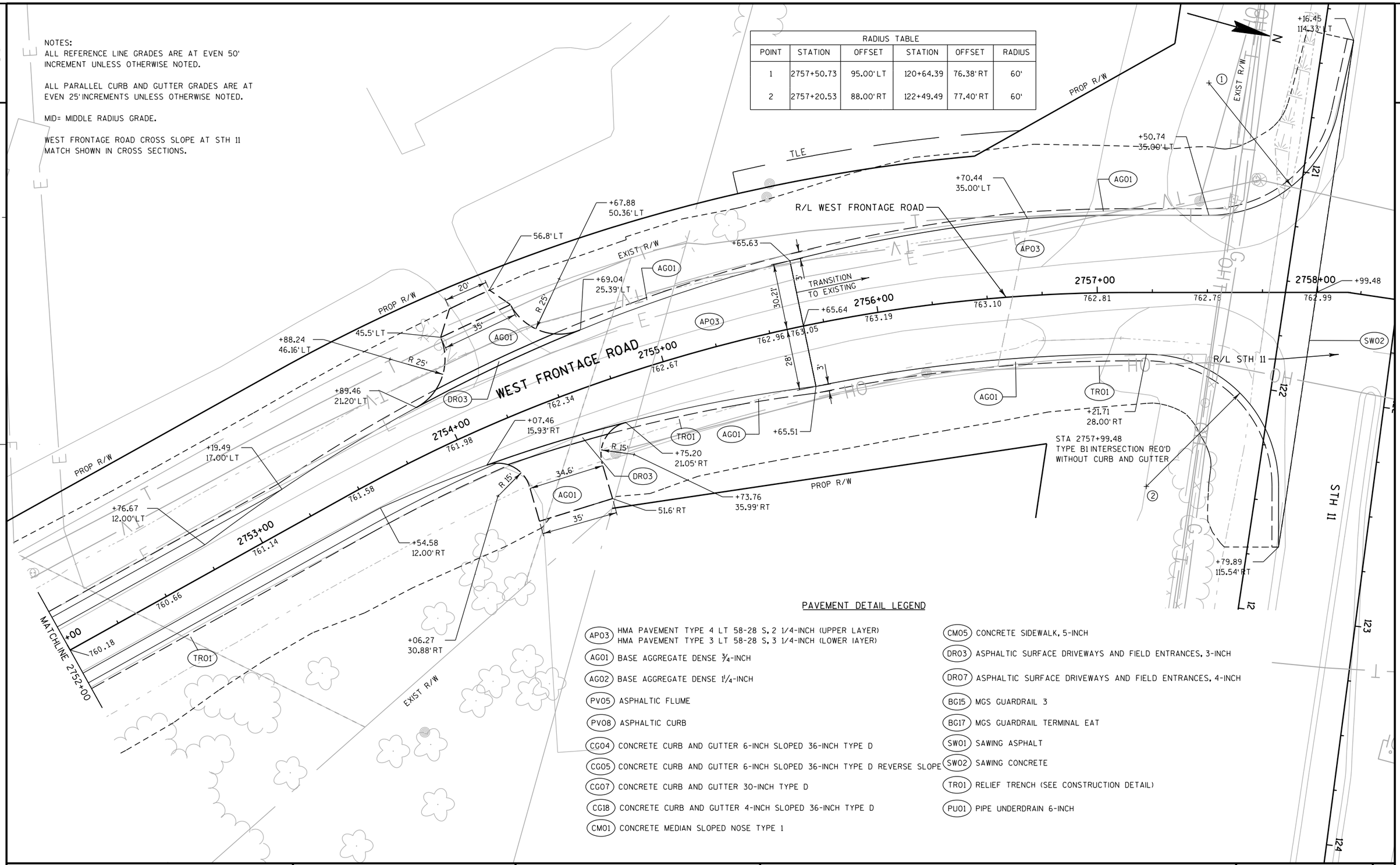
NOTES:
ALL REFERENCE LINE GRADES ARE AT EVEN 50' INCREMENT UNLESS OTHERWISE NOTED.

ALL PARALLEL CURB AND GUTTER GRADES ARE AT EVEN 25' INCREMENTS UNLESS OTHERWISE NOTED.

MID= MIDDLE RADIUS GRADE.

WEST FRONTAGE ROAD CROSS SLOPE AT STH 11 MATCH SHOWN IN CROSS SECTIONS.

RADIUS TABLE					
POINT	STATION	OFFSET	STATION	OFFSET	RADIUS
1	2757+50.73	95.00' LT	120+64.39	76.38' RT	60'
2	2757+20.53	88.00' RT	122+49.49	77.40' RT	60'



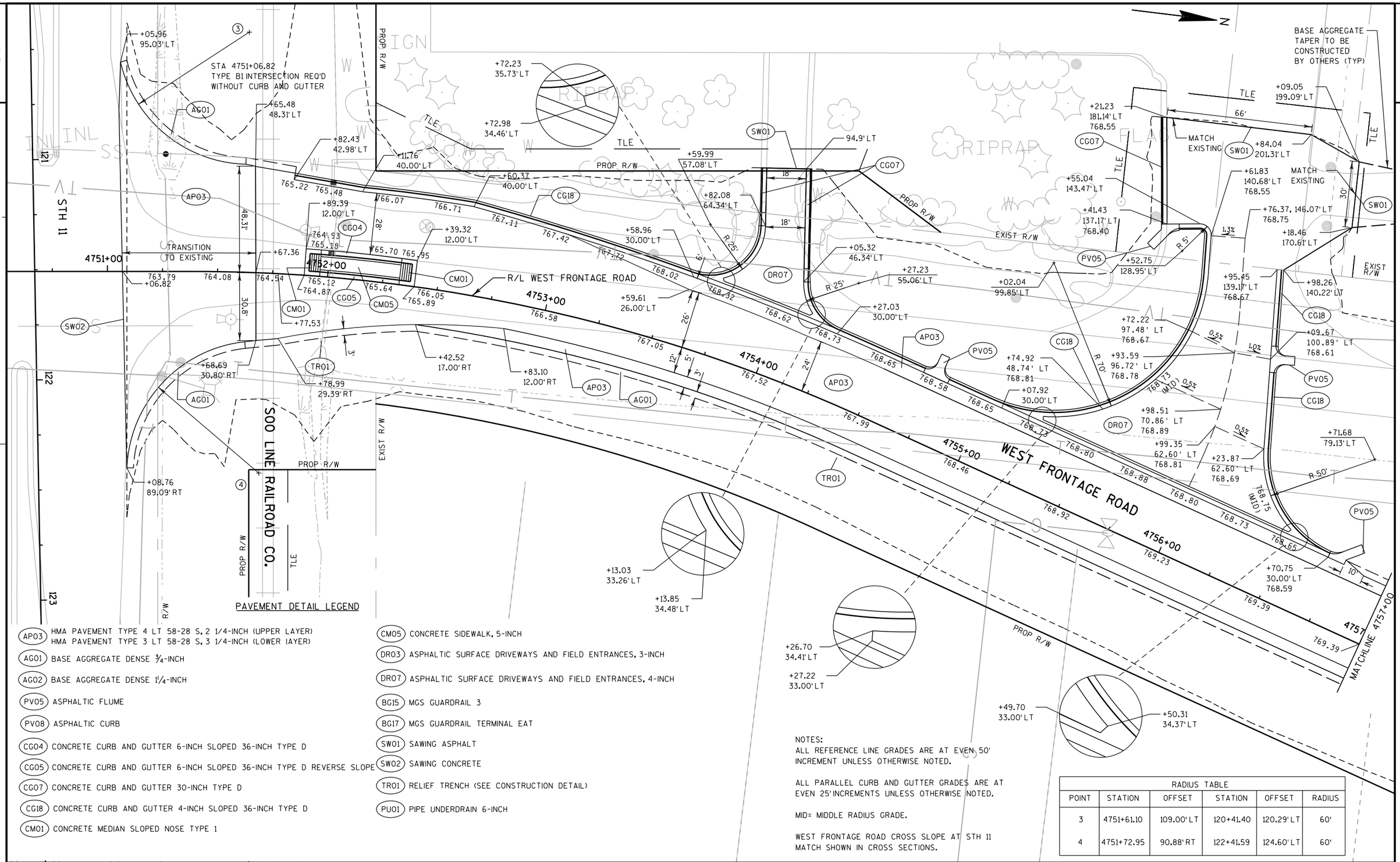
PAVEMENT DETAIL LEGEND

- APO3 — HMA PAVEMENT TYPE 4 LT 58-28 S, 2 1/4-INCH (UPPER LAYER); HMA PAVEMENT TYPE 3 LT 58-28 S, 3 1/4-INCH (LOWER IAYER)
- AGO1 — BASE AGGREGATE DENSE ¾-INCH
- AGO2 — BASE AGGREGATE DENSE 1¼-INCH
- PVO5 — ASPHALTIC FLUME
- PVO8 — ASPHALTIC CURB
- CGO4 — CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
- CGO5 — CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D REVERSE SLOPE
- CGO7 — CONCRETE CURB AND GUTTER 30-INCH TYPE D
- CG18 — CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- CMO1 — CONCRETE MEDIAN SLOPED NOSE TYPE 1
- CMO5 — CONCRETE SIDEWALK, 5-INCH
- DRO3 — ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- DRO7 — ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 4-INCH
- BG15 — MGS GUARDRAIL 3
- BG17 — MGS GUARDRAIL TERMINAL EAT
- SWO1 — SAWING ASPHALT
- SWO2 — SAWING CONCRETE
- TRO1 — RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- PUO1 — PIPE UNDERDRAIN 6-INCH

PROJECT NO: 1030-24-74	HWY: IH 94	COUNTY: RACINE	PLAN DETAILS: WEST FRONTAGE ROAD	SHEET 46	E

FILE NAME : Z:\Racine\CADDS\13\13W\CDS\021204_PD.dgn PLOT DATE : 9/18/2017 PLOT BY : cory.ihde PLOT NAME : PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42



APO3	HMA PAVEMENT TYPE 4 LT 58-28 S, 2 1/4-INCH (UPPER LAYER) HMA PAVEMENT TYPE 3 LT 58-28 S, 3 1/4-INCH (LOWER IAYER)
AG01	BASE AGGREGATE DENSE ¾-INCH
AG02	BASE AGGREGATE DENSE 1¼-INCH
PV05	ASPHALTIC FLUME
PV08	ASPHALTIC CURB
CG04	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
CG05	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D REVERSE SLOPE
CG07	CONCRETE CURB AND GUTTER 30-INCH TYPE D
CG18	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
CM01	CONCRETE MEDIAN SLOPED NOSE TYPE 1
CM05	CONCRETE SIDEWALK, 5-INCH
DR03	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
DR07	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 4-INCH
BG15	MGS GUARDRAIL 3
BG17	MGS GUARDRAIL TERMINAL EAT
SW01	SAWING ASPHALT
SW02	SAWING CONCRETE
TR01	RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
PU01	PIPE UNDERDRAIN 6-INCH

NOTES:
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ALL PARALLEL CURB AND GUTTER GRADES ARE AT EVEN 25' INCREMENTS UNLESS OTHERWISE NOTED.

MID= MIDDLE RADIUS GRADE.

WEST FRONTAGE ROAD CROSS SLOPE AT STH 11 MATCH SHOWN IN CROSS SECTIONS.

RADIUS TABLE					
POINT	STATION	OFFSET	STATION	OFFSET	RADIUS
3	4751+61.10	109.00' LT	120+41.40	120.29' LT	60'
4	4751+72.95	90.88' RT	122+41.59	124.60' LT	60'

PROJECT NO: 1030-24-74	HWY: IH 94	COUNTY: RACINE	PLAN DETAILS: WEST FRONTAGE ROAD	SHEET 47	E

2

EXISTING WEST FRONTAGE ROAD

EXIST R/W

EXIST R/W

RADIUS TABLE					
POINT	STATION	OFFSET	STATION	OFFSET	RADIUS
5	4759+60.11	92.00' LT	38+23.32	80.00' RT	60'
6	4759+75.14	80.00' RT	39+95.95	77.00' RT	60'
7	4761+14.93	92.00' LT	38+36.34	80.00' LT	60'
8	4761+40.22	80.00' RT	40+10.20	80.00' LT	60'

MATCHLINE 38+00

PIPE UNDERDRAIN (SEE TYPICAL SECTION FOR LOCATION) CONNECT TO STR. #407

PV05 +26.03 20.00' RT

CG18

770.36 770.80 770.27 770.14 770.81 770.32 769.80 769.18 (MID) 768.56 768.21

20' 20'

PV05 +36.34 20.00' LT

CG18

PV05

770.60 (MID)

770.85

10'

+38.80 29.00' LT

+14.93 32.00' LT

AP03

AG01

DR03

+28.03 29.00' LT

AG01

148.9' R

TLE

PROP R/W

PROP R/W

STA. 4760+46.74
TYPE B1 (MOD.) INTERSECTION REQ'D

4762+24.47
177.85' LT

SIGN

WALLS

OHP

EXIST R/W

+16.47 29.00' LT

PV05

+60.11 30.00' LT

TRO1

+80.11 24.00' LT

AG01

AP03

5' 3'

24'

WEST FRONTAGE ROAD

R/L 58TH ROAD

R/L WEST FRONTAGE ROAD

MATCHLINE 4757+00

+00 4758+00 4759+00 4760+00 4761+00 4762+00

769.39 769.23 768.94 768.63 768.34 768.22 768.31 768.56 768.84 769.13 769.41 769.69

769.26 39+00

MATCHLINE 4762+75

3' 5' 12' 5'

10' 767.84

AG01 AP03 +55.14 12.00' RT +30.14 17.00' RT TRO1 +75.14 20.00' RT CG18 767.39 (MID) 767.59

767.55 767.87 (MID) 767.24 CG18 +40.22 20.00' RT TRO1 +91.28 17.00' RT +21.37 12.00' RT AG01 AP03

+31.63 24.00' LT AP03

PROP R/W

PROP R/W

+95.95 17.00' RT 17' 766.94 766.82 40+00 20' 766.92 766.90

+10.20 20.00' LT

PV05 +19.60 17.00' RT

10'

PV05

TRO1 +39.59 17.00' LT +75.30 12.00' LT

58TH ROAD

766.78

EXIST R/W

+75.30 12.00' RT

PROP R/W

767.46 41+00

MATCHLINE 41+00

PAVEMENT DETAIL LEGEND

- APO3 — HMA PAVEMENT TYPE 4 LT 58-28 S, 2 1/4-INCH (UPPER LAYER) HMA PAVEMENT TYPE 3 LT 58-28 S, 3 1/4-INCH (LOWER LAYER)
- AGO1 — BASE AGGREGATE DENSE ¾-INCH
- AGO2 — BASE AGGREGATE DENSE 1¼-INCH
- PV05 — ASPHALTIC FLUME
- PV08 — ASPHALTIC CURB
- CGO4 — CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
- CGO5 — CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D REVERSE SLOPE
- CGO7 — CONCRETE CURB AND GUTTER 30-INCH TYPE D
- CG18 — CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- CM01 — CONCRETE MEDIAN SLOPED NOSE TYPE 1
- CM05 — CONCRETE SIDEWALK, 5-INCH
- DRO3 — ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- DRO7 — ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 4-INCH
- BG15 — MGS GUARDRAIL 3
- BG17 — MGS GUARDRAIL TERMINAL EAT
- SW01 — SAWING ASPHALT
- SW02 — SAWING CONCRETE
- TRO1 — RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- PU01 — PIPE UNDERDRAIN 6-INCH

NOTES:
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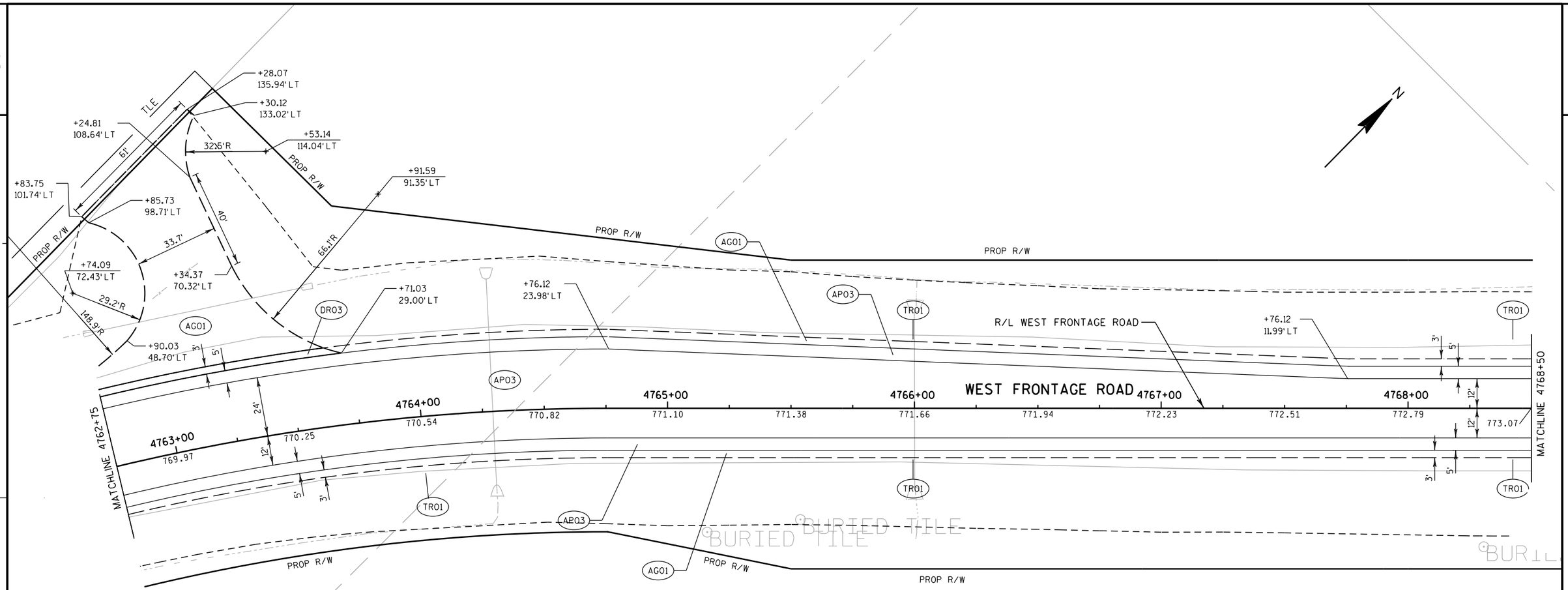
MID= MIDDLE RADIUS GRADE.

PROJECT NO: 1030-24-74	HWY: IH 94	COUNTY: RACINE	PLAN DETAILS: WEST FRONTAGE ROAD	SHEET 48	E

2



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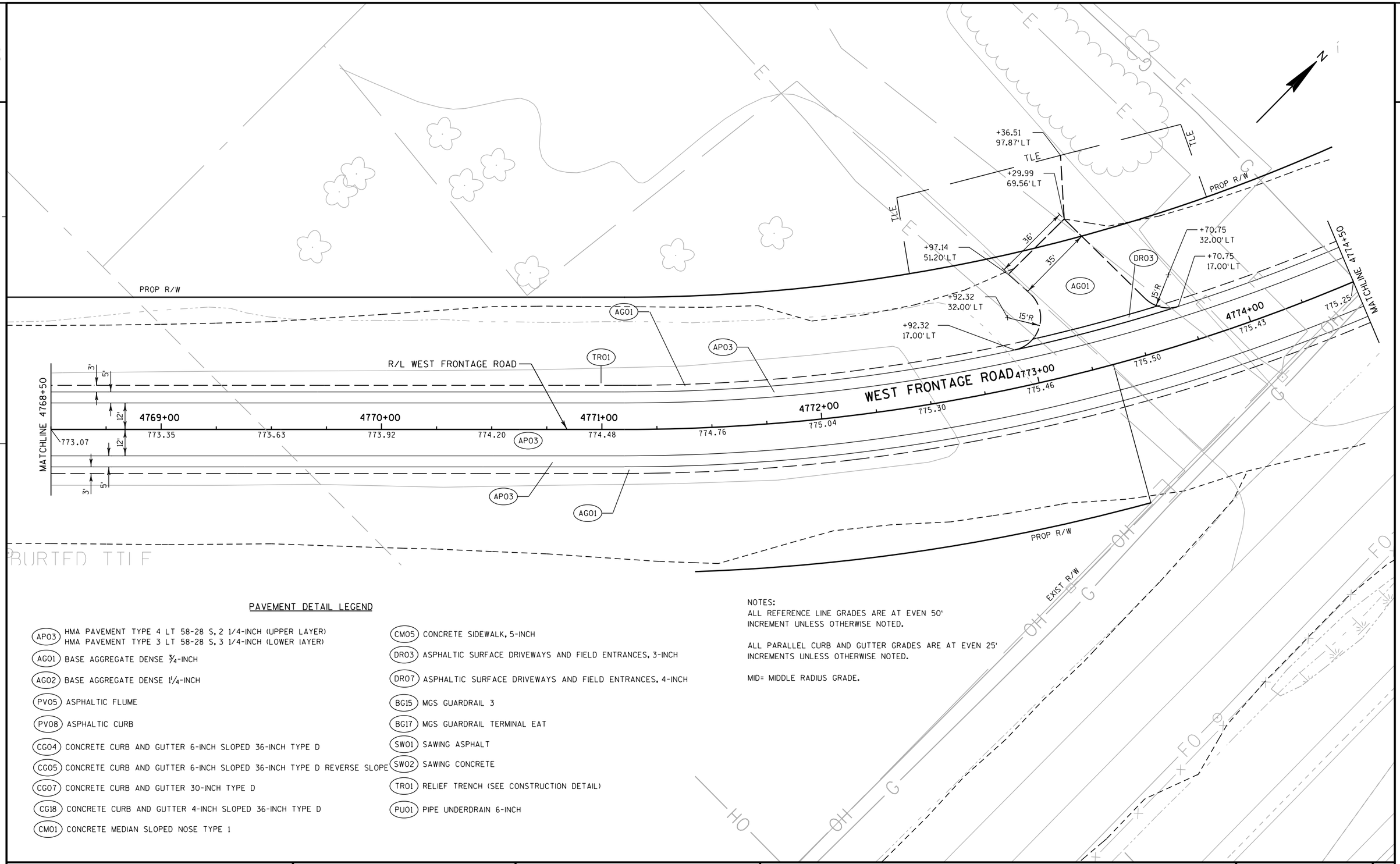
MID= MIDDLE RADIUS GRADE.

PAVEMENT DETAIL LEGEND

- (AP03) HMA PAVEMENT TYPE 4 LT 58-28 S, 2 1/4-INCH (UPPER LAYER) HMA PAVEMENT TYPE 3 LT 58-28 S, 3 1/4-INCH (LOWER LAYER)
- (AG01) BASE AGGREGATE DENSE 3/4-INCH
- (AG02) BASE AGGREGATE DENSE 1 1/4-INCH
- (PV05) ASPHALTIC FLUME
- (PV08) ASPHALTIC CURB
- (CG04) CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
- (CG05) CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D REVERSE SLOPE
- (CG07) CONCRETE CURB AND GUTTER 30-INCH TYPE D
- (CG18) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- (CM01) CONCRETE MEDIAN SLOPED NOSE TYPE 1
- (CM05) CONCRETE SIDEWALK, 5-INCH
- (DR03) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- (DR07) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 4-INCH
- (BG15) MGS GUARDRAIL 3
- (BG17) MGS GUARDRAIL TERMINAL EAT
- (SW01) SAWING ASPHALT
- (SW02) SAWING CONCRETE
- (TR01) RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- (PU01) PIPE UNDERDRAIN 6-INCH

PROJECT NO: 1030-24-74	HWY: IH 94	COUNTY: RACINE	PLAN DETAILS: WEST FRONTAGE ROAD	SHEET 49	E

2



PAVEMENT DETAIL LEGEND

- (AP03) HMA PAVEMENT TYPE 4 LT 58-28 S, 2 1/4-INCH (UPPER LAYER) HMA PAVEMENT TYPE 3 LT 58-28 S, 3 1/4-INCH (LOWER IAYER)
- (AG01) BASE AGGREGATE DENSE ¾-INCH
- (AG02) BASE AGGREGATE DENSE 1¼-INCH
- (PV05) ASPHALTIC FLUME
- (PV08) ASPHALTIC CURB
- (CG04) CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
- (CG05) CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D REVERSE SLOPE
- (CG07) CONCRETE CURB AND GUTTER 30-INCH TYPE D
- (CG18) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- (CM01) CONCRETE MEDIAN SLOPED NOSE TYPE 1
- (CM05) CONCRETE SIDEWALK, 5-INCH
- (DR03) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- (DR07) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 4-INCH
- (BG15) MGS GUARDRAIL 3
- (BG17) MGS GUARDRAIL TERMINAL EAT
- (SW01) SAWING ASPHALT
- (SW02) SAWING CONCRETE
- (TR01) RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- (PU01) PIPE UNDERDRAIN 6-INCH

NOTES:
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MID= MIDDLE RADIUS GRADE.

PROJECT NO: 1030-24-74	HWY: IH 94	COUNTY: RACINE	PLAN DETAILS: WEST FRONTAGE ROAD	SHEET 50	E

PAVEMENT DETAIL LEGEND

- (APO3) HMA PAVEMENT TYPE 4 LT 58-28 S, 2 1/4-INCH (UPPER LAYER)
  HMA PAVEMENT TYPE 3 LT 58-28 S, 3 1/4-INCH (LOWER LAYER)
- (AGO1) BASE AGGREGATE DENSE 3/4-INCH
- (AGO2) BASE AGGREGATE DENSE 1 1/4-INCH
- (PVO5) ASPHALTIC FLUME
- (PVO8) ASPHALTIC CURB
- (CGO4) CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
- (CGO5) CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D REVERSE SLOPE
- (CGO7) CONCRETE CURB AND GUTTER 30-INCH TYPE D
- (CG18) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- (CMO1) CONCRETE MEDIAN SLOPED NOSE TYPE 1
- (CMO5) CONCRETE SIDEWALK, 5-INCH
- (DRO3) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- (DRO7) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 4-INCH
- (BG15) MGS GUARDRAIL 3
- (BG17) MGS GUARDRAIL TERMINAL EAT
- (SWO1) SAWING ASPHALT
- (SWO2) SAWING CONCRETE
- (TRO1) RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- (PUO1) PIPE UNDERDRAIN 6-INCH

NOTES:
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INCREMENTS UNLESS OTHERWISE NOTED.

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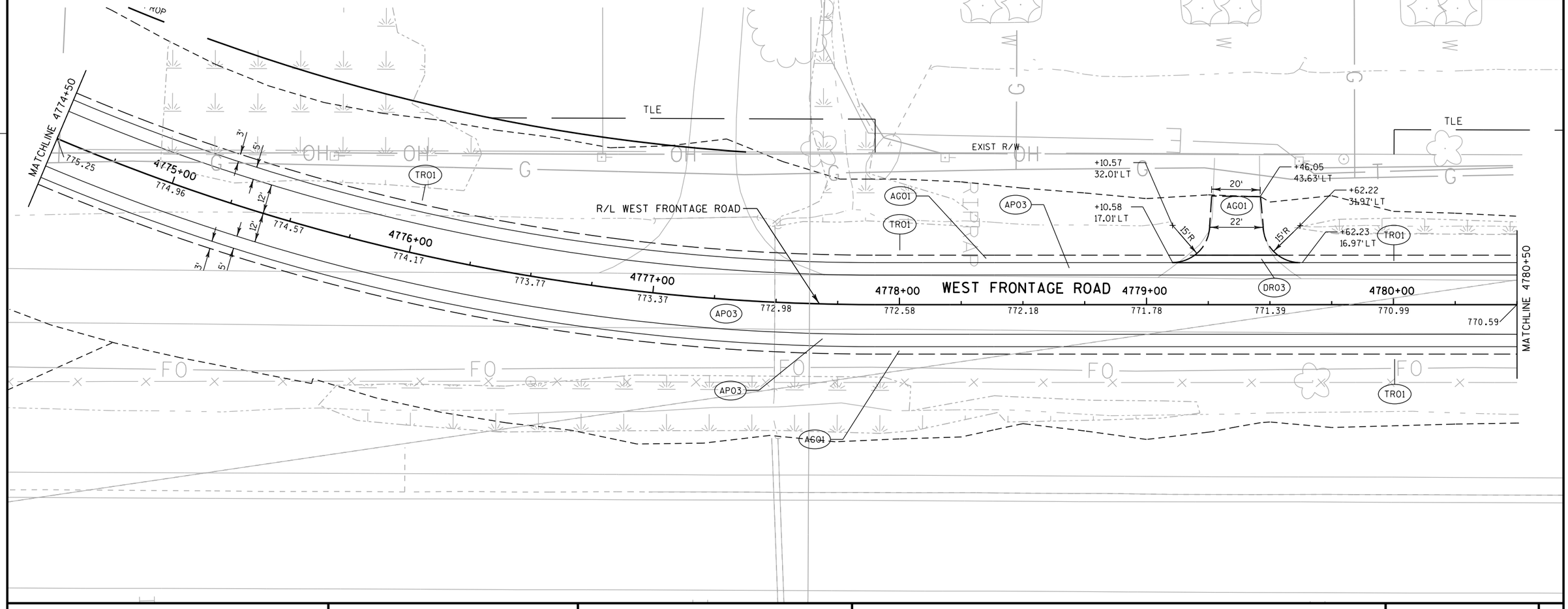

PROJECT NO: 1030-24-74	HWY: IH 94	COUNTY: RACINE	PLAN DETAILS: WEST FRONTAGE ROAD	SHEET 51	E

FILE NAME : Z:\Racine\CADDS\13\13W\CDS\021209_PD.dgn PLOT DATE : 9/18/2017 PLOT BY : cory.ihde PLOT NAME : PLOT SCALE : 1:40

PAVEMENT DETAIL LEGEND

- APO3 — HMA PAVEMENT TYPE 4 LT 58-28 S, 2 1/4-INCH (UPPER LAYER)
  HMA PAVEMENT TYPE 3 LT 58-28 S, 3 1/4-INCH (LOWER IAYER)
- AGO1 — BASE AGGREGATE DENSE ¾-INCH
- AGO2 — BASE AGGREGATE DENSE 1¼-INCH
- PVO5 — ASPHALTIC FLUME
- PVO8 — ASPHALTIC CURB
- CGO4 — CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
- CGO5 — CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D REVERSE SLOPE
- CGO7 — CONCRETE CURB AND GUTTER 30-INCH TYPE D
- CG18 — CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- CMO1 — CONCRETE MEDIAN SLOPED NOSE TYPE 1
- CMO5 — CONCRETE SIDEWALK, 5-INCH
- DRO3 — ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- DRO7 — ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 4-INCH
- BG15 — MGS GUARDRAIL 3
- BG17 — MGS GUARDRAIL TERMINAL EAT
- SWO1 — SAWING ASPHALT
- SWO2 — SAWING CONCRETE
- TRO1 — RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- PUO1 — PIPE UNDERDRAIN 6-INCH

NOTES:
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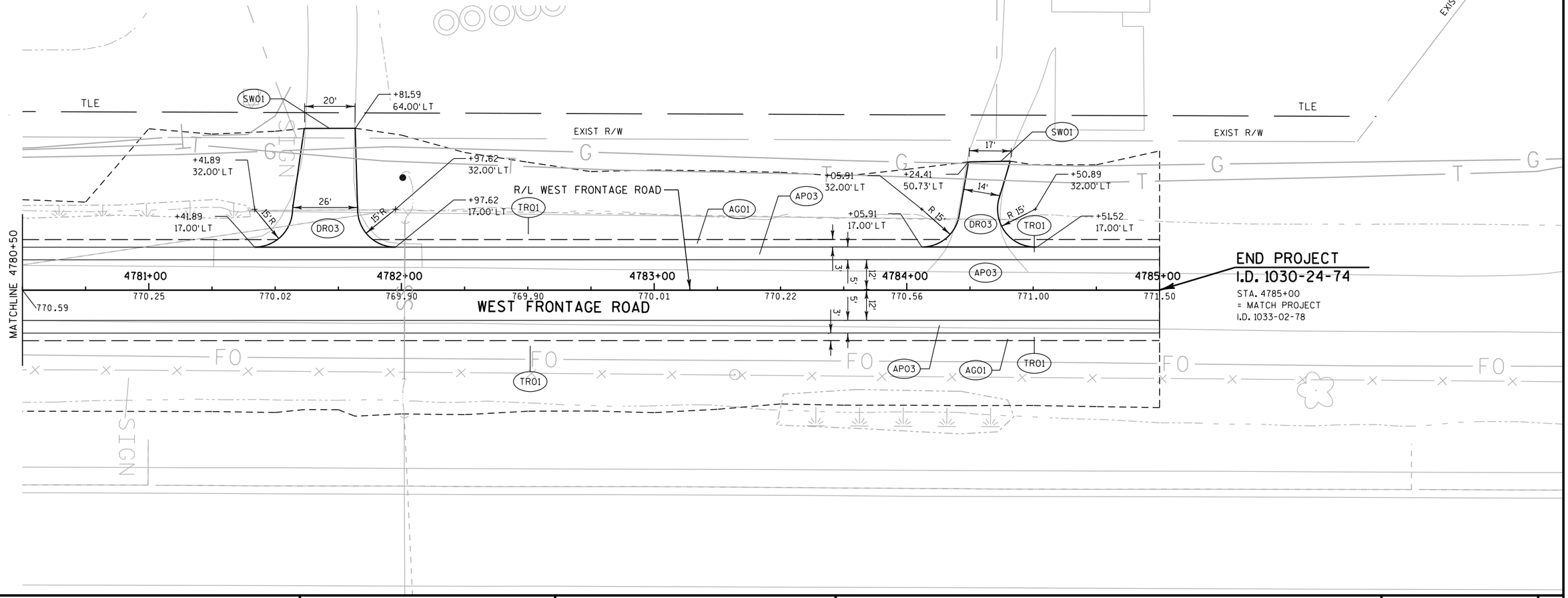
MID= MIDDLE RADIUS GRADE.



PROJECT NO: 1030-24-74	HWY: IH 94	COUNTY: RACINE	PLAN DETAILS: WEST FRONTAGE ROAD	SHEET 52	E

FILE NAME : Z:\Racine\CADDS\13\13W\CDS\021210_PD.dgn PLOT DATE : 9/18/2017 PLOT BY : cory.ihde PLOT NAME : PLOT SCALE : 1:40

PAVEMENT DETAIL LEGEND

- (APO3) HMA PAVEMENT TYPE 4 LT 58-28 S, 2 1/4-INCH (UPPER LAYER)
  HMA PAVEMENT TYPE 3 LT 58-28 S, 3 1/4-INCH (LOWER IAYER)
- (AG01) BASE AGGREGATE DENSE ¾-INCH
- (AG02) BASE AGGREGATE DENSE 1¼-INCH
- (PV05) ASPHALTIC FLUME
- (PV08) ASPHALTIC CURB
- (CG04) CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
- (CG05) CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D REVERSE SLOPE
- (CG07) CONCRETE CURB AND GUTTER 30-INCH TYPE D
- (CG18) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- (CM01) CONCRETE MEDIAN SLOPED NOSE TYPE 1
- (CM05) CONCRETE SIDEWALK, 5-INCH
- (DR03) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- (DR07) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 4-INCH
- (BG15) MGS GUARDRAIL 3
- (BG17) MGS GUARDRAIL TERMINAL EAT
- (SW01) SAWING ASPHALT
- (SW02) SAWING CONCRETE
- (TR01) RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- (PU01) PIPE UNDERDRAIN 6-INCH

NOTES:
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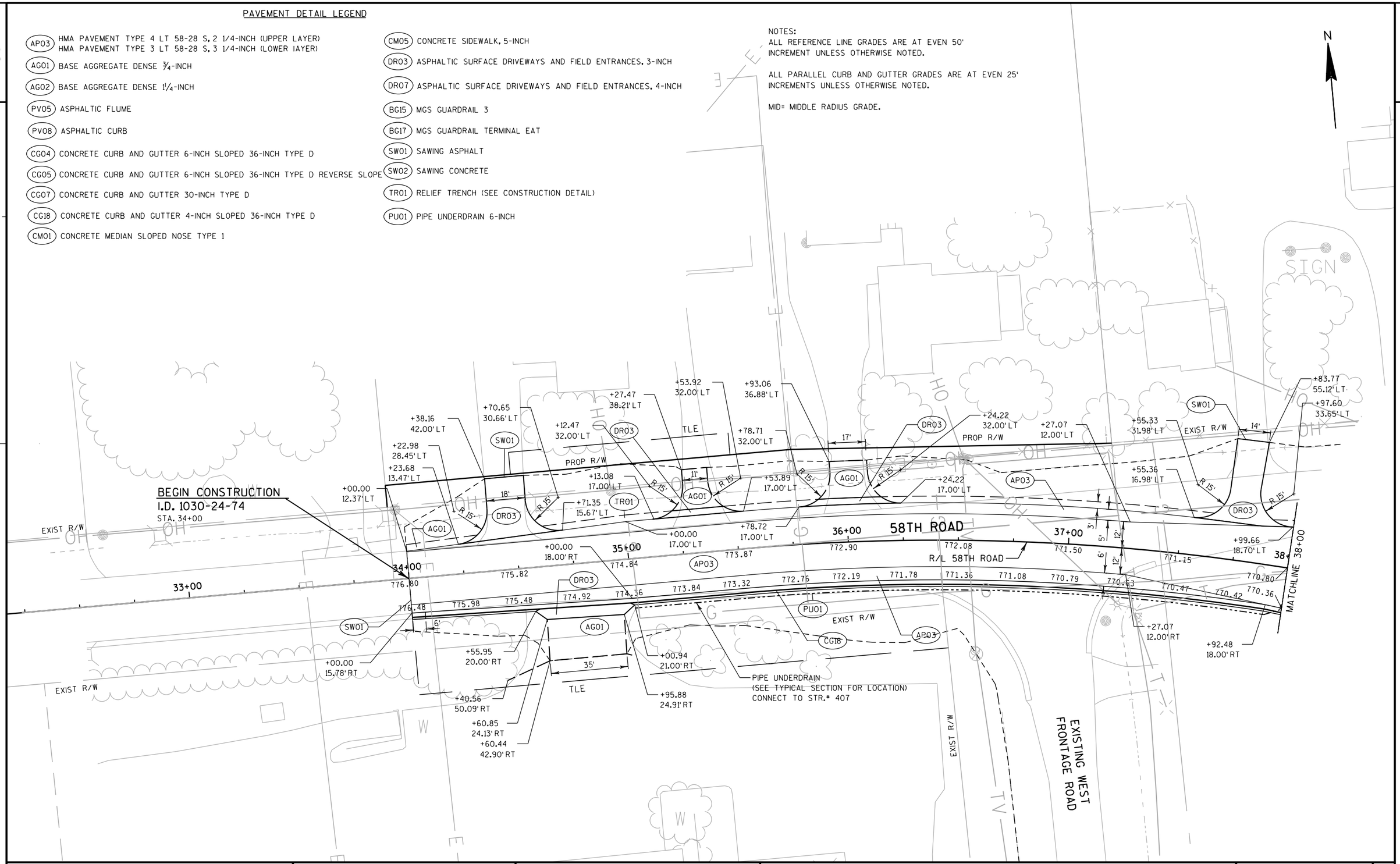
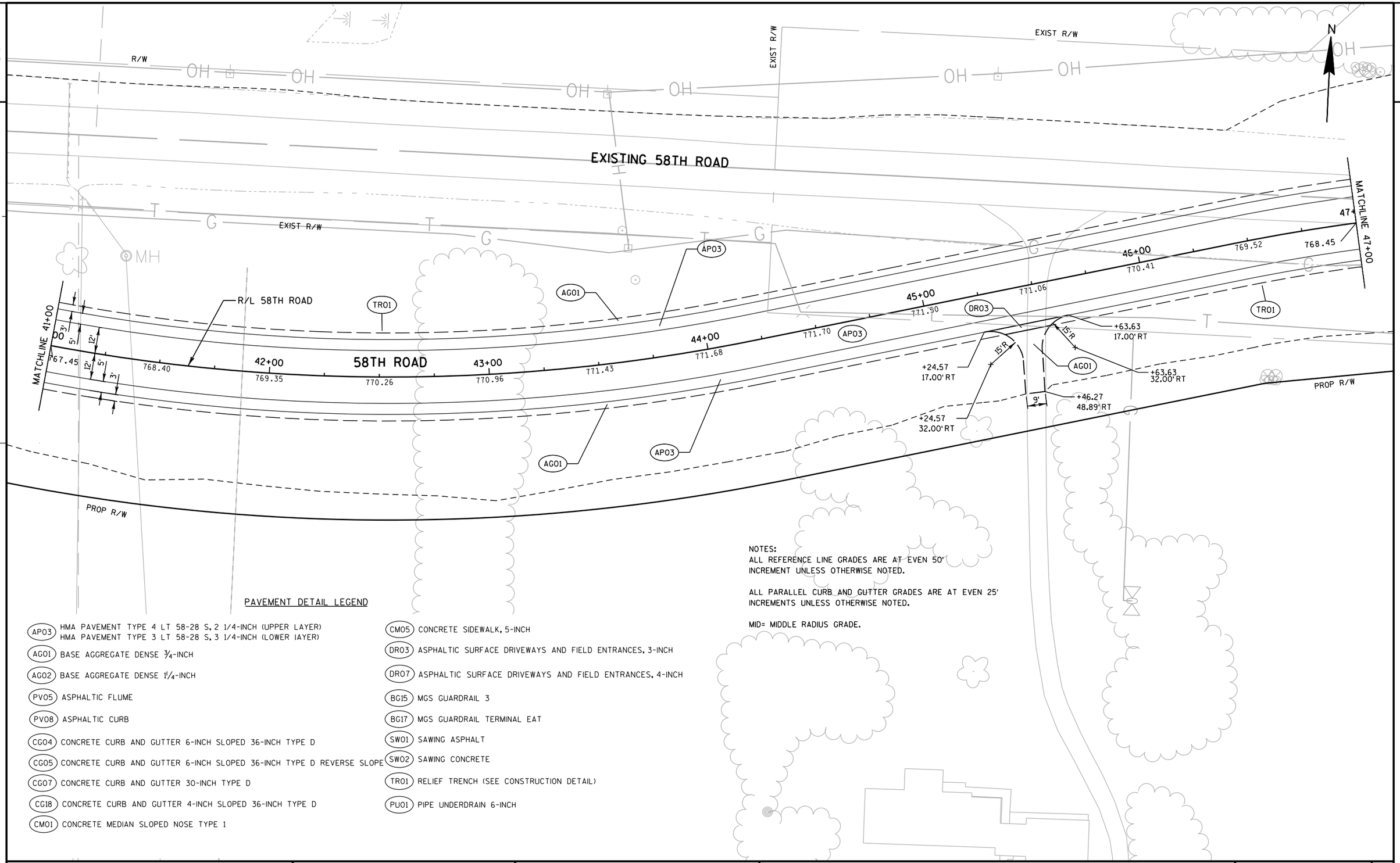


PROJECT NO: 1030-24-74	HWY: IH 94	COUNTY: RACINE	PLAN DETAILS: 58TH ROAD	SHEET 53	E

FILE NAME : Z:\Racine\CADDS\13\13W\CDS\021211_PD.dgn PLOT DATE : 9/18/2017 PLOT BY : cory.ihde PLOT NAME : PLOT SCALE : 1:40



NOTES:
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ALL PARALLEL CURB AND GUTTER GRADES ARE AT EVEN 25' INCREMENTS UNLESS OTHERWISE NOTED.

MID= MIDDLE RADIUS GRADE.

PAVEMENT DETAIL LEGEND

- (AP03) HMA PAVEMENT TYPE 4 LT 58-28 S, 2 1/4-INCH (UPPER LAYER) HMA PAVEMENT TYPE 3 LT 58-28 S, 3 1/4-INCH (LOWER IAYER)
- (AG01) BASE AGGREGATE DENSE 3/4-INCH
- (AG02) BASE AGGREGATE DENSE 1 1/4-INCH
- (PV05) ASPHALTIC FLUME
- (PV08) ASPHALTIC CURB
- (CG04) CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
- (CG05) CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D REVERSE SLOPE
- (CG07) CONCRETE CURB AND GUTTER 30-INCH TYPE D
- (CG18) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- (CM01) CONCRETE MEDIAN SLOPED NOSE TYPE 1
- (CM05) CONCRETE SIDEWALK, 5-INCH
- (DR03) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- (DR07) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 4-INCH
- (BG15) MGS GUARDRAIL 3
- (BG17) MGS GUARDRAIL TERMINAL EAT
- (SW01) SAWING ASPHALT
- (SW02) SAWING CONCRETE
- (TR01) RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- (PU01) PIPE UNDERDRAIN 6-INCH

PROJECT NO: 1030-24-74	HWY: IH 94	COUNTY: RACINE	PLAN DETAILS: 58TH ROAD	SHEET 54	E

PAVEMENT DETAIL LEGEND

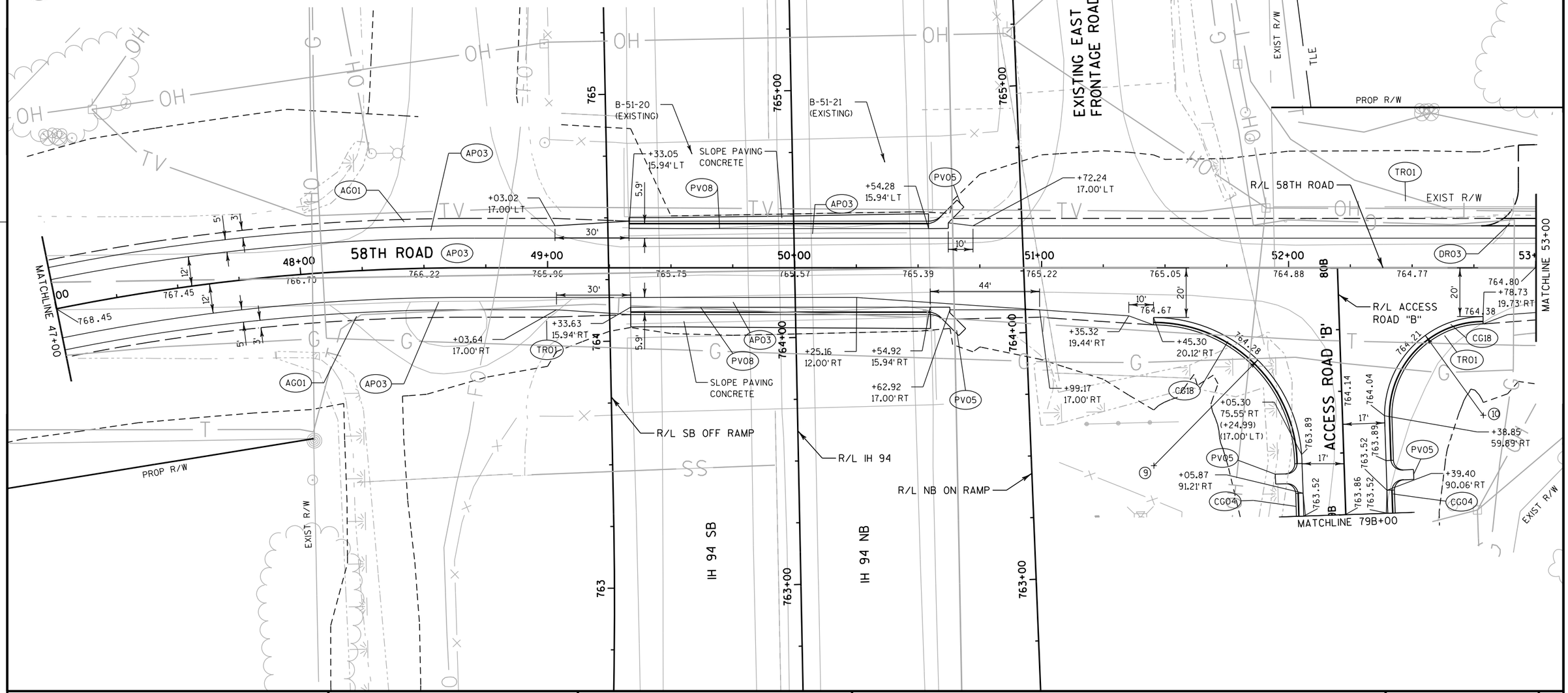
- (APO3) HMA PAVEMENT TYPE 4 LT 58-28 S, 2 1/4-INCH (UPPER LAYER) HMA PAVEMENT TYPE 3 LT 58-28 S, 3 1/4-INCH (LOWER LAYER)
- (AGO1) BASE AGGREGATE DENSE ¾-INCH
- (AGO2) BASE AGGREGATE DENSE 1¼-INCH
- (PVO5) ASPHALTIC FLUME
- (PVO8) ASPHALTIC CURB
- (CGO4) CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
- (CGO5) CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D REVERSE SLOPE
- (CGO7) CONCRETE CURB AND GUTTER 30-INCH TYPE D
- (CG18) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- (CMO1) CONCRETE MEDIAN SLOPED NOSE TYPE 1
- (CMO5) CONCRETE SIDEWALK, 5-INCH
- (DRO3) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- (DRO7) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 4-INCH
- (BG15) MGS GUARDRAIL 3
- (BG17) MGS GUARDRAIL TERMINAL EAT
- (SWO1) SAWING ASPHALT
- (SWO2) SAWING CONCRETE
- (TRO1) RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- (PUO1) PIPE UNDERDRAIN 6-INCH

NOTES:
ALL REFERENCE LINE GRADES ARE AT EVEN 50' INCREMENT UNLESS OTHERWISE NOTED.

ALL PARALLEL CURB AND GUTTER GRADES ARE AT EVEN 25' INCREMENTS UNLESS OTHERWISE NOTED.

MID= MIDDLE RADIUS GRADE.

RADIUS TABLE					
POINT	STATION	OFFSET	STATION	OFFSET	RADIUS
9	51+45.48	80.12' RT	79+22.45	76.99' LT	60'
10	52+78.85	59.73' RT	79+38.31	56.99' RT	40'



PROJECT NO: 1030-24-74	HWY: IH 94	COUNTY: RACINE	PLAN DETAILS: 58TH ROAD	SHEET 55	E

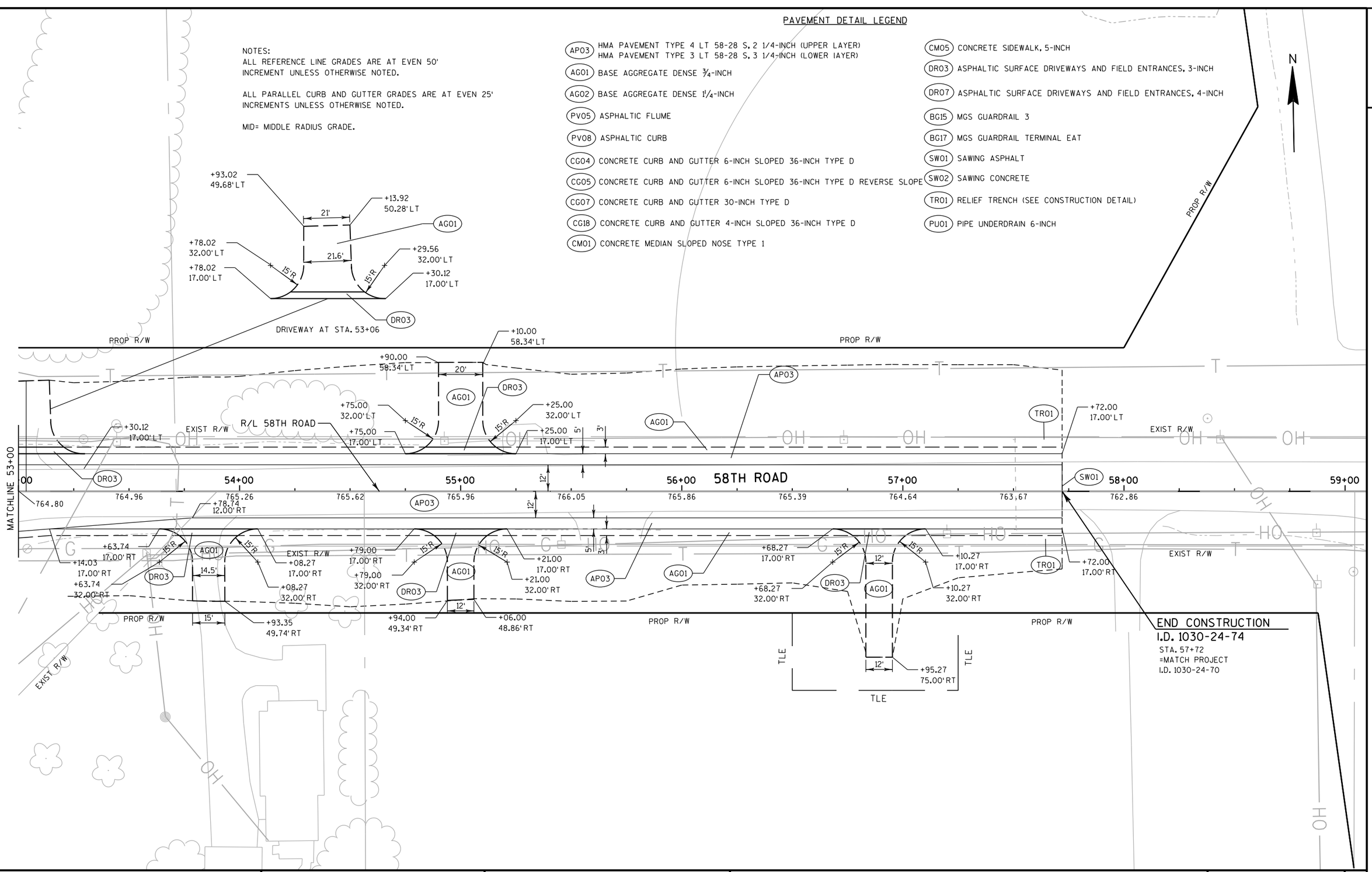
NOTES:
ALL REFERENCE LINE GRADES ARE AT EVEN 50' INCREMENT UNLESS OTHERWISE NOTED.

ALL PARALLEL CURB AND GUTTER GRADES ARE AT EVEN 25' INCREMENTS UNLESS OTHERWISE NOTED.

MID= MIDDLE RADIUS GRADE.

PAVEMENT DETAIL LEGEND

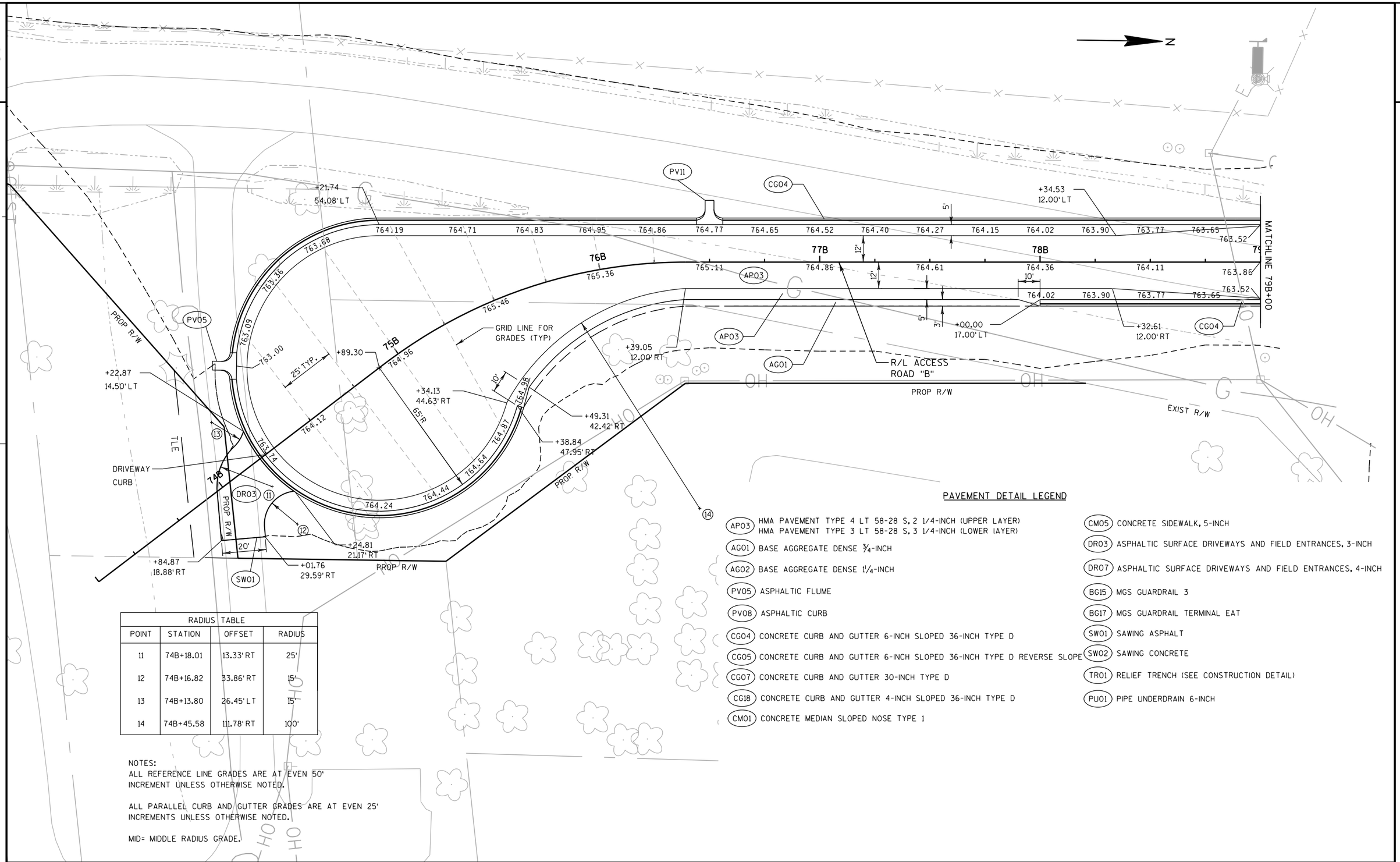
- APO3 HMA PAVEMENT TYPE 4 LT 58-28 S, 2 1/4-INCH (UPPER LAYER) HMA PAVEMENT TYPE 3 LT 58-28 S, 3 1/4-INCH (LOWER LAYER)
- AG01 BASE AGGREGATE DENSE ¾-INCH
- AG02 BASE AGGREGATE DENSE 1¼-INCH
- PV05 ASPHALTIC FLUME
- PV08 ASPHALTIC CURB
- CG04 CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
- CG05 CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D REVERSE SLOPE
- CG07 CONCRETE CURB AND GUTTER 30-INCH TYPE D
- CG18 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- CM01 CONCRETE MEDIAN SLOPED NOSE TYPE 1
- CM05 CONCRETE SIDEWALK, 5-INCH
- DR03 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- DR07 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 4-INCH
- BG15 MGS GUARDRAIL 3
- BG17 MGS GUARDRAIL TERMINAL EAT
- SW01 SAWING ASPHALT
- SW02 SAWING CONCRETE
- TR01 RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- PU01 PIPE UNDERDRAIN 6-INCH



PROJECT NO: 1030-24-74	HWY: IH 94	COUNTY: RACINE	PLAN DETAILS: 58TH ROAD	SHEET 56	E

FILE NAME : Z:\Racine\CADDS\13\13W\CDS\021214_PD.dgn PLOT DATE : 9/18/2017 PLOT BY : cory.ihde PLOT NAME : PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42



RADIUS TABLE			
POINT	STATION	OFFSET	RADIUS
11	74B+18.01	13.33' RT	25'
12	74B+16.82	33.86' RT	15'
13	74B+13.80	26.45' LT	15'
14	74B+45.58	111.78' RT	100'

NOTES:
ALL REFERENCE LINE GRADES ARE AT EVEN 50' INCREMENT UNLESS OTHERWISE NOTED.

ALL PARALLEL CURB AND GUTTER GRADES ARE AT EVEN 25' INCREMENTS UNLESS OTHERWISE NOTED.

MID= MIDDLE RADIUS GRADE.

PAVEMENT DETAIL LEGEND

- APO3 HMA PAVEMENT TYPE 4 LT 58-28 S, 2 1/4-INCH (UPPER LAYER)
  HMA PAVEMENT TYPE 3 LT 58-28 S, 3 1/4-INCH (LOWER IAYER)
- AGO1 BASE AGGREGATE DENSE ¾-INCH
- AGO2 BASE AGGREGATE DENSE 1¼-INCH
- PVO5 ASPHALTIC FLUME
- PVO8 ASPHALTIC CURB
- CGO4 CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
- CGO5 CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D REVERSE SLOPE
- CGO7 CONCRETE CURB AND GUTTER 30-INCH TYPE D
- CGI8 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- CMO1 CONCRETE MEDIAN SLOPED NOSE TYPE 1
- CMO5 CONCRETE SIDEWALK, 5-INCH
- DRO3 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- DRO7 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 4-INCH
- BG15 MGS GUARDRAIL 3
- BG17 MGS GUARDRAIL TERMINAL EAT
- SW01 SAWING ASPHALT
- SW02 SAWING CONCRETE
- TR01 RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- PU01 PIPE UNDERDRAIN 6-INCH

LEGEND

- EROSION MAT CLASS I TYPE B
- EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- HEAVY DUTY SILT FENCE
- (R) ROCK BAGS
- RIP RAP (LIGHT UNLESS NOTED)
- SLOPE INTERCEPT
- EROSION BALE
- (A) INLET PROTECTION TYPE A
- (C) INLET PROTECTION TYPE C*
- (D) INLET PROTECTION TYPE D*
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- SOIL STABILIZER

NOTE:
* PLACE INLET PROTECTION TYPE A UNTIL CURB IS IN PLACE, THEN PLACE TYPE C OR D AS INDICATED.

N

BEGIN PROJECT
1030-24-74
STA. 2737+00
= MATCH PROJECT
1030-24-78

SEEDING MIXTURE NO. 40
APPROX. STA. 2737+00 TO 2744+50

MATCHLINE 2746+00

PROP R/W
EXIST R/W
R/L WEST FRONTAGE ROAD
+00.24
67.55' RT
+00.47
83.37' RT
WETLAND BOUNDARY
WEST FRONTAGE ROAD
SB ON RAMP
R/L SB ON RAMP
IH-94 SB
IH-94 NB
R/L IH 94
NB OFF RAMP
R/L NB OFF RAMP
R/L EAST FRONTAGE ROAD
EAST FRONTAGE ROAD
WETLAND BOUNDARY

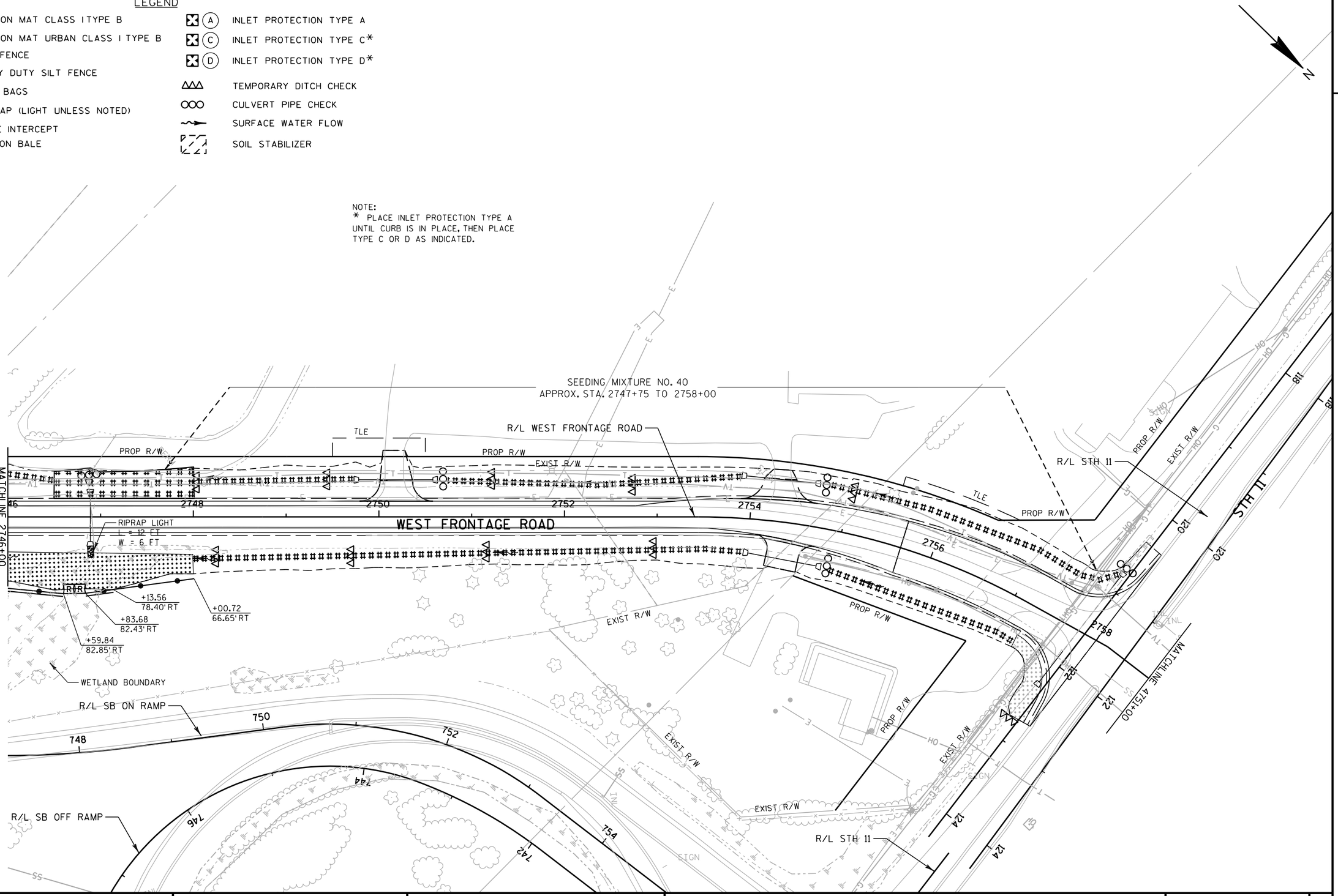
PROJECT NO: 1030-24-74	HWY: IH 94	COUNTY: RACINE	EROSION CONTROL: WEST FRONTAGE ROAD	SHEET 58	E

FILE NAME : Z:\Racine\CADDS\13\13W\CDS\022001_EC.dgn PLOT DATE : 7/27/2017 PLOT BY : cory.ihde PLOT NAME : PLOT SCALE : 1:100

LEGEND

- EROSION MAT CLASS I TYPE B
- EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- HEAVY DUTY SILT FENCE
- ROCK BAGS
- RIP RAP (LIGHT UNLESS NOTED)
- SLOPE INTERCEPT
- EROSION BALE
- INLET PROTECTION TYPE A
- INLET PROTECTION TYPE C*
- INLET PROTECTION TYPE D*
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- SOIL STABILIZER

NOTE:
* PLACE INLET PROTECTION TYPE A UNTIL CURB IS IN PLACE, THEN PLACE TYPE C OR D AS INDICATED.



PROJECT NO: 1030-24-74	HWY: IH 94	COUNTY: RACINE	EROSION CONTROL: WEST FRONTAGE ROAD	SHEET 59	E

FILE NAME : Z:\Racine\CADDS\13\13W\CDS\022002_EC.dgn PLOT DATE : 7/27/2017 PLOT BY : cory.ihde PLOT NAME : PLOT SCALE : 1:100

LEGEND

- EROSION MAT CLASS I TYPE B
- EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- HEAVY DUTY SILT FENCE
- ROCK BAGS
- RIP RAP (LIGHT UNLESS NOTED)
- SLOPE INTERCEPT
- EROSION BALE
- INLET PROTECTION TYPE A
- INLET PROTECTION TYPE C*
- INLET PROTECTION TYPE D*
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- SOIL STABILIZER

NOTE:
* PLACE INLET PROTECTION TYPE A UNTIL CURB IS IN PLACE, THEN PLACE TYPE C OR D AS INDICATED.

AVOID ADDITIONAL IMPACTS TO THE BARNES PRAIRIE

GRADE SWALE TO DRAIN

RIPRAP LIGHT
L = 12 FT
W = 14 FT

RIPRAP LIGHT
L = 15 FT
W = 7 FT

RIPRAP LIGHT
L = 18 FT
W = 9 FT

RIPRAP LIGHT
L = 15 FT
W = 30 FT

58TH ROAD

WEST FRONTAGE ROAD

SOO LINE RAILROAD CO.

MATCHLINE 41+00

MATCHLINE 43+00

MATCHLINE 47+00

NOTES:
1) EROSION CONTROL MEASURES FROM STA 4761+50 TO STA 4766+25 WERE PLACED BY OTHERS UNDER PROJECT ID 3738-08-70, WEST FRONTAGE/58TH ROAD DITCH (RACINE CO.).
2) IF EROSION CONTROL MEASURES INSTALLED UNDER PROJECT ID 3738-08-70 ARE STILL IN PLACE THE CONTRACTOR SHALL REMOVE THEM AT THE COMPLETION OF THIS PROJECT. REMOVAL OF ANY ITEMS IS INCIDENTAL TO ITEM "FINISHING ROADWAY (PROJECT)".

PROJECT NO: 1030-24-74	HWY: IH 94	COUNTY: RACINE	EROSION CONTROL: WEST FRONTAGE ROAD	SHEET 60	E

FILE NAME : Z:\Racine\CADDS\13\13W\CDS\022003_EC.dgn PLOT DATE : 9/18/2017 PLOT BY : cory.ihde PLOT NAME : PLOT SCALE : 1:100

LEGEND

- EROSION MAT CLASS I TYPE B
- EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- HEAVY DUTY SILT FENCE
- ROCK BAGS
- RIP RAP (LIGHT UNLESS NOTED)
- SLOPE INTERCEPT
- EROSION BALE
- INLET PROTECTION TYPE A
- INLET PROTECTION TYPE C*
- INLET PROTECTION TYPE D*
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- SOIL STABILIZER

NOTE:
* PLACE INLET PROTECTION TYPE A UNTIL CURB IS IN PLACE, THEN PLACE TYPE C OR D AS INDICATED.

NOTE:
1) EROSION CONTROL MEASURES FROM STA 4762+00 TO STA 4772+50 WERE PLACED BY OTHERS UNDER PROJECT ID 1030-24-76, FRONTAGE ROAD GRADING.
2) IF EROSION CONTROL MEASURES INSTALLED UNDER PROJECT ID 1030-24-76 ARE STILL IN PLACE THE CONTRACTOR SHALL REMOVE THEM AT THE COMPLETION OF THIS PROJECT. REMOVAL OF ANY ITEMS IS INCIDENTAL TO ITEM "FINISHING ROADWAY (PROJECT)".

SEEDING MIXTURE NO. 40
APPROX. STA. 4772+75 TO 4785+00

MATCHLINE 4766+00

MATCHLINE 4780+00

WEST FRONTAGE ROAD

PROP R/W

BURIED FIBER OPTIC

BURIED TILE

TLE

EXIST R/W

R/L WEST FRONTAGE ROAD

R/W

IH 94 SB

IH 94 NB

R/L SB OFF RAMP

R/L IH 94

R/L NB ON RAMP

R/L EAST FRONTAGE ROAD

R/L PRIVATE DRIVEWAY "A"

WETLAND BOUNDARY

4766 4768 4770 4772 4774 4776 4778 780 778 776 774 772 770 768 16 18 5776

PROJECT NO: 1030-24-74	HWY: IH 94	COUNTY: RACINE	EROSION CONTROL: WEST FRONTAGE ROAD	SHEET 61 E

FILE NAME : Z:\Racine\CADDS\13\13W\CDS\022004_EC.dgn PLOT DATE : 7/27/2017 PLOT BY : cory.ihde PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

LEGEND

- EROSION MAT CLASS I TYPE B
- EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- HEAVY DUTY SILT FENCE
- ROCK BAGS
- RIP RAP (LIGHT UNLESS NOTED)
- SLOPE INTERCEPT
- EROSION BALE
- INLET PROTECTION TYPE A
- INLET PROTECTION TYPE C*
- INLET PROTECTION TYPE D*
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- SOIL STABILIZER

NOTE:
* PLACE INLET PROTECTION TYPE A UNTIL CURB IS IN PLACE, THEN PLACE TYPE C OR D AS INDICATED.

N

56TH ROAD

END PROJECT
1030-24-74
STA. 4785+00
MATCH PROJECT
I.D. 1033-02-78

SEEDING MIXTURE NO. 40
APPROX. STA. 4772+75 TO 4785+00

R/L WEST FRONTAGE ROAD

EXIST R/W

MATCHLINE 4780+00

WEST FRONTAGE ROAD

IH 94 SB

IH 94 NB

R/L IH 94

R/L EAST FRONTAGE ROAD

WETLAND BOUNDARY

PROP R/W

PLE

EXIST R/W

LOUIS SORENSON ROAD

R/L LOUIS SORENSON ROAD

PROJECT NO: 1030-24-74	HWY: IH 94	COUNTY: RACINE	EROSION CONTROL: WEST FRONTAGE ROAD	SHEET	E

FILE NAME : Z:\Racine\CADDS\13\13W\CDS\022005_EC.dgn PLOT DATE : 7/27/2017 PLOT BY : cory.ihde PLOT NAME : PLOT SCALE : 1:100

2

N

EXIST R/W

R/W

R/L SB OFF RAMP

R/L IH 94

R/L NB ON RAMP

TLE

PROP R/W

R/L 58TH ROAD

RIPRAP LIGHT
L = 12 FT
W = 6 FT

58TH ROAD

MATCHLINE 43+00

RIPRAP LIGHT
L = 12 FT
W = 6 FT

SEEDING MIXTURE NO. 40
APPROX. STA. 40+00 TO 48+00

SEEDING MIXTURE NO. 40
APPROX. STA. 52+00 TO 56+50

END CONSTRUCTION
I.D. 1030-24-74
STA 57+72
=MATCH PROJECT
I.D. 1030-24-70

R/L ACCESS ROAD 'B'

ACCESS ROAD "B"

R/L SWALE #1

R/L SWALE #2

APPROXIMATE LOCATION - INSTALL RIPRAP LIGHT AT LOCATION WHERE EXISTING DITCH OUTLETS TO PROPOSED.
L = 25 FT
W = 5 FT

SEPTIC

SOO LINE RAILROAD CO.

NOTE:
* PLACE INLET PROTECTION TYPE A UNTIL CURB ISIN PLACE, THEN PLACE TYPE C OR D AS INDICATED.

LEGEND

- EROSION MAT CLASS I TYPE B
- EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- HEAVY DUTY SILT FENCE
- ROCK BAGS
- RIP RAP (LIGHT UNLESS NOTED)
- SLOPE INTERCEPT
- EROSION BALE
- INLET PROTECTION TYPE A
- INLET PROTECTION TYPE C*
- INLET PROTECTION TYPE D*
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- SOIL STABILIZER

PROJECT NO: 1030-24-74	HWY: IH 94	COUNTY: RACINE	EROSION CONTROL: 58TH ROAD	SHEET	E

FILE NAME : Z:\Racine\CADDS\13\13W\CDS\022006_EC.dgn PLOT DATE : 7/27/2017 PLOT BY : cory.ihde PLOT NAME : PLOT SCALE : 1:100

2

N

PROP R/W

EXIST R/W

IH 94 SB

IH 94 NB

R/L SB OFF RAMP

R/L IH 94

R/L NB ON RAMP

R/L SWALE 2

ASPHALTIC FLUME AND RIPRAP LIGHT L = 10 FT W = 6 FT

ASPHALTIC FLUME AND RIPRAP LIGHT L = 10 FT W = 6 FT

ACCESS ROAD "B"

R/L ACCESS ROAD "B"

ASPHALTIC FLUME AND RIPRAP LIGHT L = 10 FT W = 6 FT

ASPHALTIC FLUME AND RIPRAP LIGHT L = 10 FT W = 6 FT

END CONSTRUCTION
STA 79B+80.00

BEGIN CONSTRUCTION
STA 74B+21.30

STH 11

R/L STH 11

SOO LINE RAILROAD CO.

58TH ROAD

R/L 58TH ROAD

R/L NB ON RAMP

IH 94 NB ON RAMP

IH 94 NB OFF RAMP

R/L NB OFF RAMP

TLE

SEPTIC

SIGN

LEGEND

- EROSION MAT CLASS I TYPE B
- EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- HEAVY DUTY SILT FENCE
- ROCK BAGS
- RIP RAP (LIGHT UNLESS NOTED)
- SLOPE INTERCEPT
- EROSION BALE
- INLET PROTECTION TYPE A
- INLET PROTECTION TYPE C*
- INLET PROTECTION TYPE D*
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- SOIL STABILIZER

PROJECT NO: 1030-24-74	HWY: IH 94	COUNTY: RACINE	EROSION CONTROL: ACCESS ROAD "B"	SHEET	E

FILE NAME : Z:\Racine\CADDS\13\13W\CDS\022007_EC.dgn PLOT DATE : 7/27/2017 PLOT BY : cory.ihde PLOT NAME : PLOT SCALE : 1:100

NOTES:
- USE UNDISTRIBUTED BASE AGGREGATE DENSE, WITH THE APPROVAL OF THE ENGINEER, IN THE TEMPORARY TRUCK ACCESS AREA, AS NECESSARY.
- REMOVE ANY BASE AGGREGATE DENSE AND RESTORE ALL AREAS IMPACTED BY THE TRUCK ACCESS AND DITCHING WORK.
- RESTORATION OF THE TRUCK ACCESS AND ALL WORK SHOWN ON THIS SHEET IS PAID UNDER THE GRADING, SHAPING AND FINISHING DITCH ITEM.

N

FRONTAGE ROAD

WEST

AVOID DAMAGE TO EXISTING DRAIN PIPES

GRADE DITCH AT A MIN. 0.3% GRADE (FIELD VERIFY PIPE INVERT ELEVATIONS TO DETERMINE CONSTANT GRADING SLOPE. GRADE AT CONSTANT SLOPE FROM PIPE INVERT TO PIPE INVERT.)

TRACKING PAD FOR TRUCK/EQUIPMENT INGRESS/EGRESS (SEE DETAIL)

CLEANING CULVERT PIPE

SOO LINE RAILROAD CO.

CANADIAN PACIFIC

PROP R/W

EX. R/W

TLE

SI

STH 11

USE ABANDONED RAILROAD GRADE FOR TEMPORARY TRUCK ACCESS TO WORK AREA

IH 94 SB

IH 94 NB

RIPRAP

100'

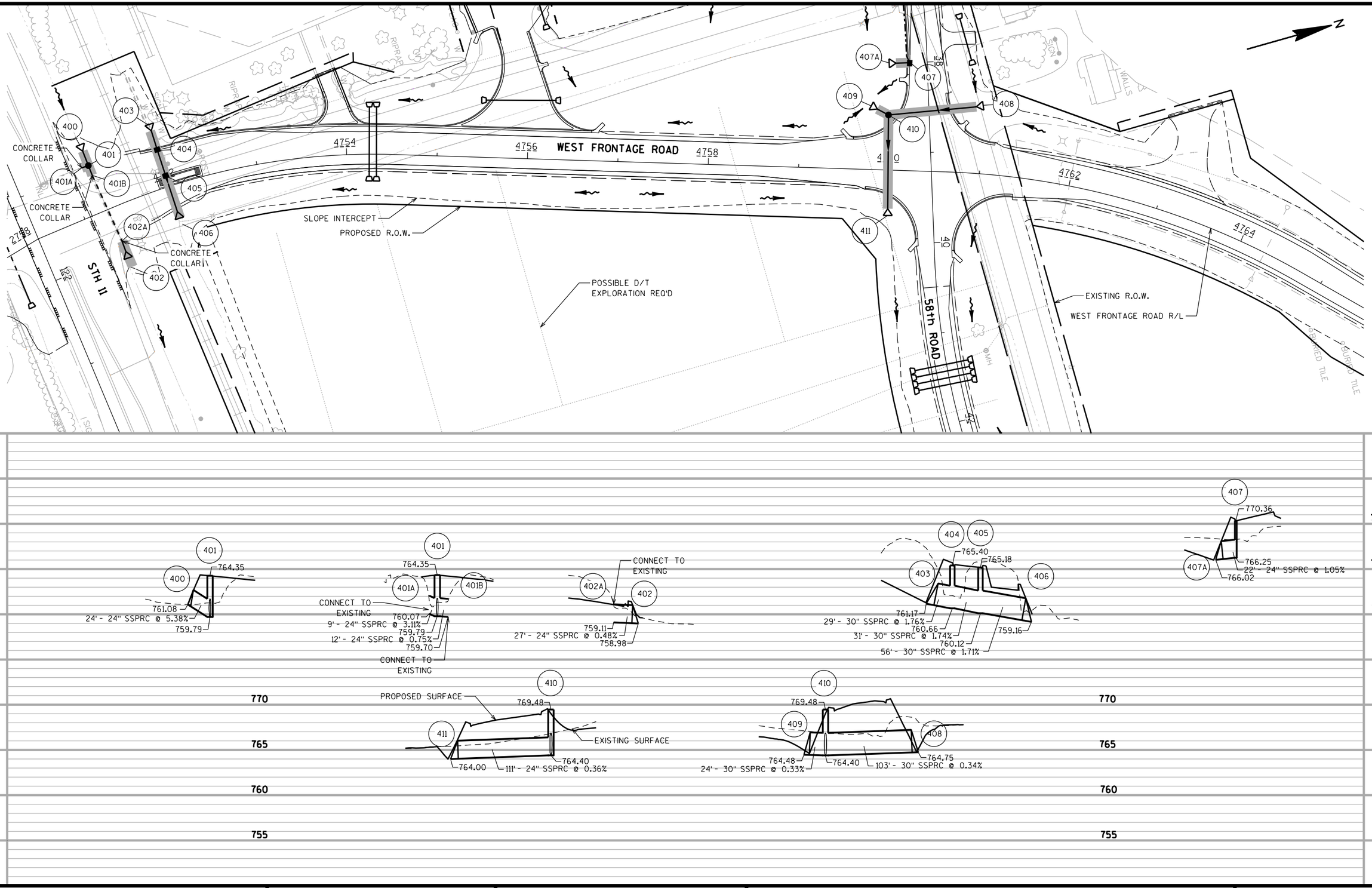
SIGN

LEGEND

- EROSION MAT CLASS I TYPE B
- EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- HEAVY DUTY SILT FENCE
- ROCK BAGS
- RIP RAP (LIGHT UNLESS NOTED)
- SLOPE INTERCEPT
- EROSION BALE
- INLET PROTECTION TYPE A
- INLET PROTECTION TYPE C*
- INLET PROTECTION TYPE D*
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- SOIL STABILIZER

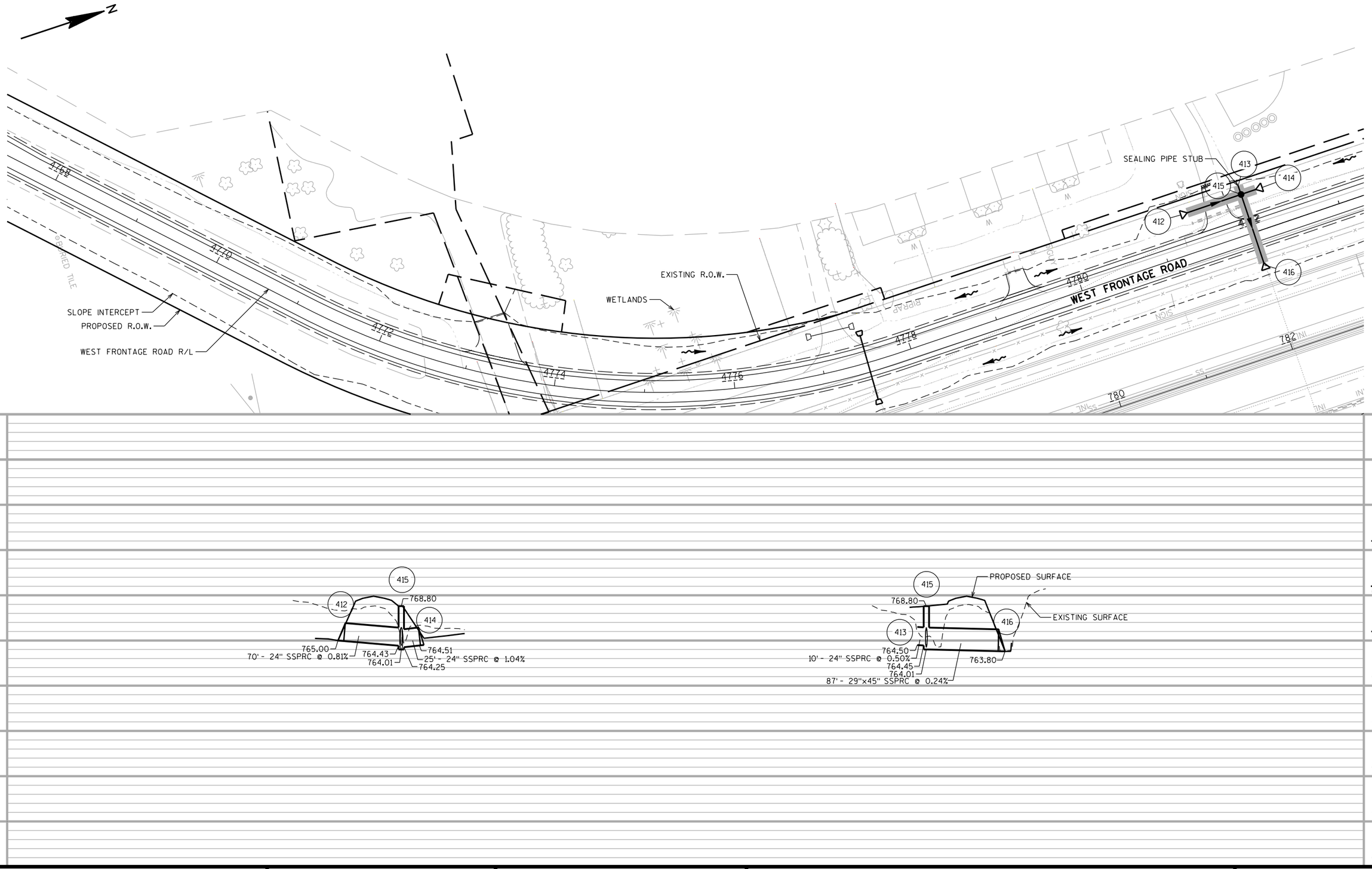
PROJECT NO: 1030-24-74	HWY: IH 94	COUNTY: RACINE	EROSION CONTROL: ACCESS ROAD "B"	SHEET 65	E

FILE NAME : Z:\Racine\CADDS\13\13W\CDS\022008_EC.dgn PLOT DATE : 7/27/2017 PLOT BY : cory.ihde PLOT NAME : PLOT SCALE : 1:100



PROJECT NO: 1030-24-74	HWY: IH 94	COUNTY: RACINE	STORM SEWER: SEG. 13 WFR	SHEET 66	E

FILE NAME : S:\2015\WisDOT\I-94_N-S\CADD files\CDS\SSE_IH-94_13WFR_SS1.dgn PLOT DATE : 11/3/2016 PLOT BY : Harlan PLOT NAME : _____ PLOT SCALE : 1:100



PROJECT NO: 1030-24-74	HWY: IH 94	COUNTY: RACINE	STORM SEWER: SEG. 13 WFR	SHEET 67 E

2

N

NOTE: CONTRACTOR SHALL NOT REMOVE EXISTING SIGNING UNITL THE ROADWAY IS READY FOR NEW SIGNING SO THERE IS NOT A LACK OF PROPER SIGNING WHEN THE ROADWAY IS OPEN TO TRAFFIC.

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE OR BANDED TO UTILITY POLE
- (XRXX) DENOTES REMOVING SIGN NUMBER
- (XMXX) DENOTES MOVING SIGN NUMBER
- ESTR EXISTING SIGN TO REMAIN

1RO1
REMOVE

R/L WEST FRONTAGE ROAD

BEGIN PROJECT
I.D. 1030-24-74
STA. 2737+00
= MATCH PROJECT
I.D. 1030-24-78

MATCHLINE 2747+00

JCT 11

1RO3
REMOVE

1RO2
REMOVE

WEST FRONTAGE ROAD

SB ON RAMP

IH-94 SB

IH-94 NB

R/L SB ON RAMP

R/L IH 94

R/L NB OFF RAMP

NB OFF RAMP

R/L EAST FRONTAGE ROAD

EAST FRONTAGE ROAD

2738 2740 2742 2744 2746

734 736 738 740 742 744 746

732 734 736 738 740 742 744

3732 3734 3736 3738 3740 3742

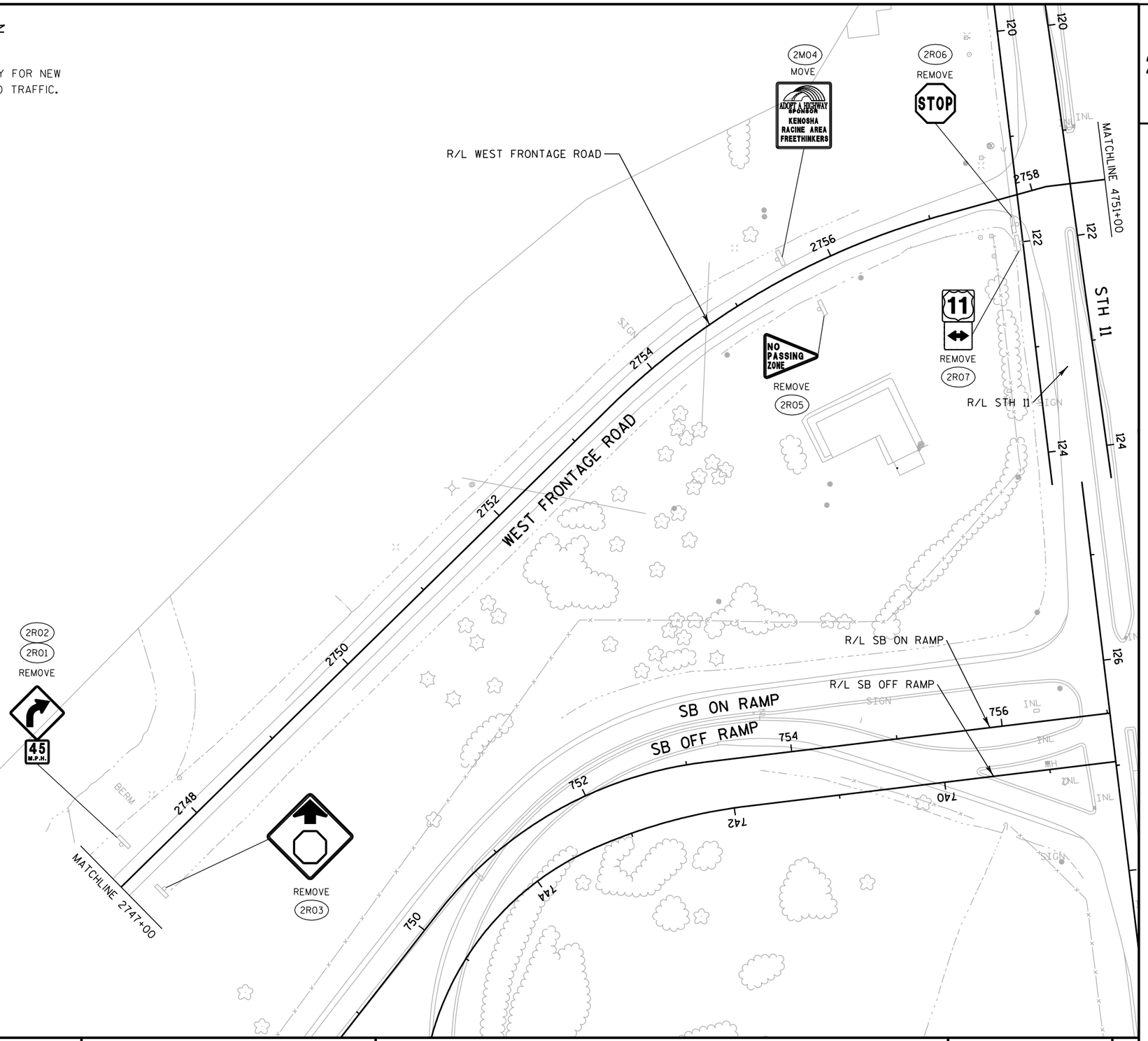
PROJECT NO: 1030-24-74	HWY: IH 94	COUNTY: RACINE	EXISTING SIGNING: WEST FRONTAGE ROAD	SHEET 68 E

N

NOTE: CONTRACTOR SHALL NOT REMOVE EXISTING SIGNING UNITL THE ROADWAY IS READY FOR NEW SIGNING SO THERE IS NOT A LACK OF PROPER SIGNING WHEN THE ROADWAY IS OPEN TO TRAFFIC.

LEGEND

	EXISTING SIGN MOUNTED ON POST(S)
	EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE OR BANDED TO UTILITY POLE
(XRXX)	DENOTES REMOVING SIGN NUMBER
(XMXX)	DENOTES MOVING SIGN NUMBER
ESTR	EXISTING SIGN TO REMAIN



PROJECT NO: 1030-24-74	HWY: IH 94	COUNTY: RACINE	EXISTING SIGNING: WEST FRONTAGE ROAD	SHEET 69 E

NOTE: CONTRACTOR SHALL NOT REMOVE EXISTING SIGNING UNITL THE ROADWAY IS READY FOR NEW SIGNING SO THERE IS NOT A LACK OF PROPER SIGNING WHEN THE ROADWAY IS OPEN TO TRAFFIC.

N

2

2

3R01 REMOVE — TO 41 TO 94

3R02 REMOVE — 11

3R03 REMOVE — STOP

3R09 / 3R08 REMOVE — JCT 11 — NO PARKING ANY TIME

ENCROACHMENT TO BE REMOVED OR MOVED BY PROPERTY OWNER — STOP

SALVAGE BY LOCAL MUNICIPALITY — SYLVANIA RD / 58TH RD

3M20 MOVE — SPEED LIMIT 45

3R22 REMOVE

3R21 REMOVE — ALTERNATE 41 ALTERNATE 94

3R23 REMOVE — TO 41 TO 94 TO WEST FRONTAGE ROAD

3R14 REMOVE — NO PARKING ANY TIME

3R15 REMOVE

3R17 REMOVE — NO PARKING ANY TIME

58TH ROAD

WEST FRONTAGE ROAD

MATCHLINE 4751+00

4752 4754 4756 4758 4760 4762 4764

34 36 38 40 42

SIGN RIPRAP RIPRAP FLAG SIGN

3R04 REMOVE — NO PARKING ANY TIME

3R05 REMOVE — NO PARKING ANY TIME

3R06 REMOVE

3R07 REMOVE — NO PARKING ANY TIME

3R12 REMOVE — WEST FRONTAGE ROAD

3R13 REMOVE — NO PARKING ANY TIME

3R16 REMOVE — NO PARKING ANY TIME

STOP 3R18 REMOVE — ON FLASHER POLE

3R24 REMOVE — SPEED LIMIT 45

3R19 REMOVE — WEST FRONTAGE ROAD

SOO LINE RAILROAD CO.

R/L WEST FRONTAGE ROAD

R/L 56TH ROAD

MATCHLINE 42+00

SIGN WALLS MH BURIED TILE BURIED TILE

MATCHLINE 4765+00

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE OR BANDED TO UTILITY POLE
- (XRXX) DENOTES REMOVING SIGN NUMBER
- (XMXX) DENOTES MOVING SIGN NUMBER
- ESTR EXISTING SIGN TO REMAIN

PROJECT NO: 1030-24-74	HWY: IH 94	COUNTY: RACINE	EXISTING SIGNING: WEST FRONTAGE ROAD	SHEET 70	E

FILE NAME : z:\racine\cadds\13\13w\cds\023203_es.dgn PLOT DATE : 1/10/2017 PLOT BY : tony.baciak PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

NOTE: CONTRACTOR SHALL NOT REMOVE EXISTING SIGNING UNITL THE ROADWAY IS READY FOR NEW SIGNING SO THERE IS NOT A LACK OF PROPER SIGNING WHEN THE ROADWAY IS OPEN TO TRAFFIC.

N

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE OR BANDED TO UTILITY POLE
- (XRXX) DENOTES REMOVING SIGN NUMBER
- (XMXX) DENOTES MOVING SIGN NUMBER
- ESTR EXISTING SIGN TO REMAIN

MATCHLINE 42+00

58TH ROAD

4R01 REMOVE

4R12 REMOVE — SPEED LIMIT 45

SALVAGE BY LOCAL MUNICIPALITY — SYLVANIA RD / 58TH RD

4R02 REMOVE — TO INTERSTATE 41 / TO INTERSTATE 94 / TO FRONTAGE ROAD

WEST FRONTAGE ROAD — 4R04 REMOVE

4R03 REMOVE — STOP

ALTERNATE INTERSTATE 41 / ALTERNATE INTERSTATE 94 — REMOVE

4R05 REMOVE

4R07 REMOVE

14'-4" — BANDED TO BRIDGE PIER ESTR

4R13 REMOVE

4R06 REMOVE — STOP

4R08 REMOVE — STOP

4M11 MOVE — ADOPT A HIGHWAY SPONSOR UNION GROVE HIGH SCHOOL KEY CLUB

4R09 REMOVE — NO PASSING ZONE

MATCHLINE 4766+00

BURIED TILE

R/L WEST FRONTAGE ROAD

4R10 REMOVE

SIGN TO BE REMOVED OR MOVED BY PROPERTY OWNER — STOP

POT 8776+765.000

POT 8764+765.000

8765 8766 8768 8770 8772 8774 8770

NO°08'34"E

WEST FRONTAGE ROAD

MATCHLINE 4776+00

762 764 766 768

R/L SB OFF RAMP

IH 94 SB

MATCHLINE 50+00

762 764 766 768 770 772 774 776

R/L IH 94

IH 94 NB

R/L NB ON RAMP

765 766 768 770 772 774 776

EAST FRONTAGE ROAD

N3°25'04"W

N0°07'43"W

PROJECT NO: 1030-24-74	HWY: IH 94	COUNTY: RACINE	EXISTING SIGNING: WEST FRONTAGE ROAD	SHEET 71 E

FILE NAME : z:\racine\cadds\13\13w\cds\023204_es.dgn PLOT DATE : 1/10/2017 PLOT BY : tony.baciak PLOT NAME : PLOT SCALE : 1:100

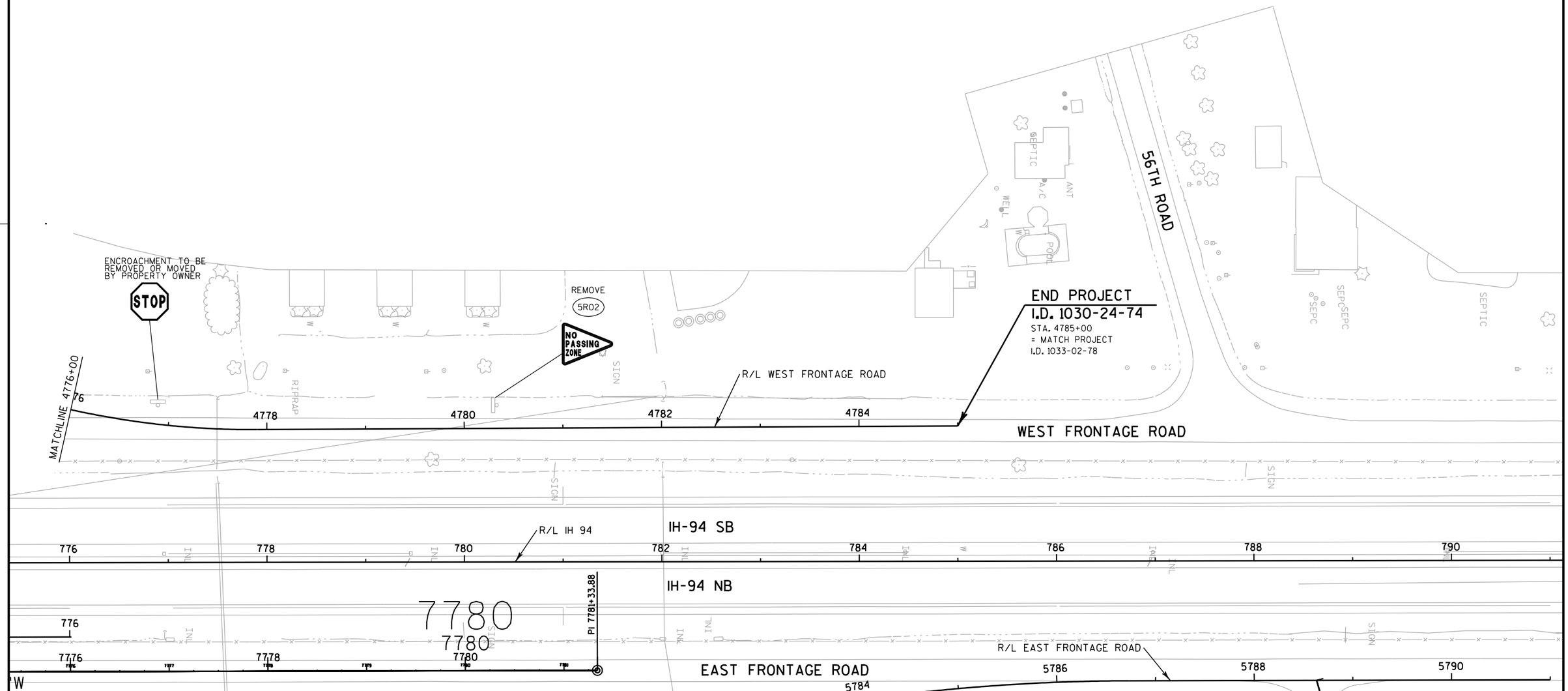
WISDOT/CADDS SHEET 42

NOTE: CONTRACTOR SHALL NOT REMOVE EXISTING SIGNING UNITL THE ROADWAY IS READY FOR NEW SIGNING SO THERE IS NOT A LACK OF PROPER SIGNING WHEN THE ROADWAY IS OPEN TO TRAFFIC.

N

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE OR BANDED TO UTILITY POLE
- (XRXX) DENOTES REMOVING SIGN NUMBER
- (XMXX) DENOTES MOVING SIGN NUMBER
- ESTR EXISTING SIGN TO REMAIN



PROJECT NO: 1030-24-74	HWY: IH 94	COUNTY: RACINE	EXISTING SIGNING: WEST FRONTAGE ROAD	SHEET 72 E

NOTE: CONTRACTOR SHALL NOT REMOVE EXISTING SIGNING UNITL THE ROADWAY IS READY FOR NEW SIGNING SO THERE IS NOT A LACK OF PROPER SIGNING WHEN THE ROADWAY IS OPEN TO TRAFFIC.

N

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE OR BANDED TO UTILITY POLE
- (XRXX) DENOTES REMOVING SIGN NUMBER
- (XMXX) DENOTES MOVING SIGN NUMBER
- ESTR EXISTING SIGN TO REMAIN

IH-94 SB

IH-94 NB

R/L SB OFF RAMP

R/L IH 94

R/L NB ON RAMP

Pl 7767+60.81

6R01 REMOVE

TO 41 TO 94

6R02 REMOVE

FRONTAGE ROAD

6R04 6R03 REMOVE

STOP

TRAFFIC FROM RIGHT DOES NOT STOP

6R05 REMOVE

STOP

OLD HWY 11

E FRONTAGE RD

SALVAGE BY LOCAL MUNICIPALITY

6R10 REMOVE

ALTERNATE 41 ALTERNATE 94

6R11 REMOVE

EAST FRONTAGE ROAD

6R12 REMOVE

STOP

ONCOMING TRAFFIC DOES NOT STOP

6R18 REMOVE

14'-4"

BANDED TO BRIDGE PIER ESTR

N22°25'04"W 7765

Pl 7764+50.00

MATCHLINE 50+00

BURIED TILE

BURIED TILE

58TH ROAD

R/L 58TH ROAD

END CONSTRUCTION
I.D. 1030-24-74
STA 57+72
=MATCH PROJECT
I.D. 1030-24-70

R/L EAST FRONTAGE ROAD

EAST FRONTAGE ROAD

SEPTIC

SEPC

6R06 REMOVE

6R09 6R08 6R07 REMOVE

6R16 REMOVE

STOP

6R17 REMOVE

FRONTAGE ROAD

6R15 6R14 REMOVE

DEAD END

R/L ACCESS ROAD "B"

ACCESS ROAD "B"

PROJECT NO: 1030-24-74	HWY: IH 94	COUNTY: RACINE	EXISTING SIGNING: WEST FRONTAGE ROAD	SHEET 73 E

FILE NAME : z:\racine\cadds\13\13w\cds\023206_es.dgn PLOT DATE : 1/10/2017 PLOT BY : tony.baciak PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

2

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON SIGNAL POLE
- DELINEATOR (DUAL DIRECTION WHITE)
- (XMXX) DENOTES MOVING SIGN NUMBER
- (XPXX) DENOTES PROPOSED SIGN NUMBER

N

IP04

W1-2R
36" X 36"

MATCHLINE 2746+00

R/L WEST FRONTAGE ROAD

WEST FRONTAGE ROAD

2744

2742

2740

2738

746

744

742

740

738

736

734

732

BEGIN PROJECT
I.D. 1030-24-74
STA. 2737+00
= MATCH PROJECT
I.D. 1030-24-78

IP03

W1-6
48" X 24"
IN LINE WITH
TANGENT

W1-6
48" X 24"
IN LINE WITH
TANGENT

IP02

IH-94 SB

IH-94 NB

R/L SB ON RAMP

R/L IH 94

R/L NB OFF RAMP

R/L EAST FRONTAGE ROAD

3742

3740

3738

3736

3734

3732

PROJECT NO: 1030-24-74	HWY: IH 94	COUNTY: RACINE	PERMANENT SIGNING: WEST FRONTAGE ROAD	SHEET 74	E

FILE NAME : Z:\Racine\CADDS\13\13W\CDS\023207_PS.dgn | PLOT DATE : 1/10/2017 | PLOT BY : tony.baciak | PLOT NAME : | PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

2

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON SIGNAL POLE
- DELINEATOR (DUAL DIRECTION WHITE)
- (XMXX) DENOTES MOVING SIGN NUMBER
- (XPXX) DENOTES PROPOSED SIGN NUMBER

N

R/L WEST FRONTAGE ROAD

WEST FRONTAGE ROAD

MATCHLINE 2746+00

R/L SB ON RAMP

R/L SB OFF RAMP

R/L STH 11

BERM

SIGN

INL

2M04
MOVE
SPONSOR
ERMMA
RACINE AREA
FIREFIGHTERS

2P05
SPEED LIMIT 45
R2-1
24" X 30"

2P07
W6-3
36" X 36"

2P08
W1-4L
36" X 36"

JCT 11
J1-1
24" X 39"
2P01

W3-1
36" X 36"
2P02

W1-2R
36" X 36"
2P03

R3-8
36" X 30"
ONLY
2P04

NO PASSING ZONE
W14-3
48" X 36"

NOTE: LOCATE SIGN BASED ON "LOCATING NO-PASSING ZONES" ITEM
2P06

R1-1
36" X 36"
2P09
2P10

STOP
TRAFFIC ON 11 DOES NOT STOP
W4-4C
36" X 15"

WEST 11 EAST 11 TO INTERSTATE 41 TO INTERSTATE 94
J2-4
96" X 57"
2P11

PROJECT NO: 1030-24-74	HWY: IH 94	COUNTY: RACINE	PERMANENT SIGNING: WEST FRONTAGE ROAD	SHEET 75 E

FILE NAME : z:\racine\cadds\13\13w\cds\023208_PS.dgn PLOT DATE : 1/10/2017 PLOT BY : tony.baciak PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON SIGNAL POLE
- DELINEATOR (DUAL DIRECTION WHITE)
- (XMXX) DENOTES MOVING SIGN NUMBER
- (XPXX) DENOTES PROPOSED SIGN NUMBER

N

58TH ROAD

R/L 58TH ROAD

WEST FRONTAGE ROAD

R/L WEST FRONTAGE ROAD

SOO LINE RAILROAD CO.

MATCHLINE 4751+00

MATCHLINE 43+00

MATCHLINE 4766+00

SEE 58TH ROAD

SEE 58TH ROAD

NOTE: LOCATE SIGN BASED ON "LOCATING NO-PASSING ZONES" ITEM

3P01 — R5-1, 30" X 30" — DO NOT ENTER — PLACE ON BACK OF THE J2-3

3P02 — J2-4, 96" X 57" — TO INTERSTATE 41 / TO INTERSTATE 94 / EAST 11 / WEST 11

3P03 — 3P04 — R1-1, 36" X 36" — STOP — W4-4C, 36" X 15" — TRAFFIC ON 11 DOES NOT STOP

3P06 — R3-8, 36" X 30" — ONLY

3P10 — W3-1, 36" X 36"

3P11 — J1-1, 24" X 39" — JCT 11

3P12 — R7-1D, 18" X 24" — NO PARKING ANY TIME

3P22 — 3P23 — W1-2L, 36" X 36" — W13-1, 18" X 18" — 40 M.P.H.

3P13 — W14-3, 48" X 36" — NO PASSING ZONE

3P15 — R3-8A, 36" X 30" — ONLY

3P16 — 3P18 — 3P17 — 3P19 — R4-7, 24" X 30" — W5-54D, 18" X 18"

3P08 — R7-1D, 18" X 24" — NO PARKING ANY TIME

3P09 — R3-8A, 36" X 30" — ONLY

3P05 — 3P21 — W1-2R, 36" X 36" — W13-1, 18" X 18" — 40 M.P.H.

3P14 — W1-4R, 36" X 36"

4M11 — SPONSOR UNION GROVE HIGH SCHOOL KEY CLUB — MOVE

new PBX's

RIPRAP

SIGN

WALLS

BURIED TILE

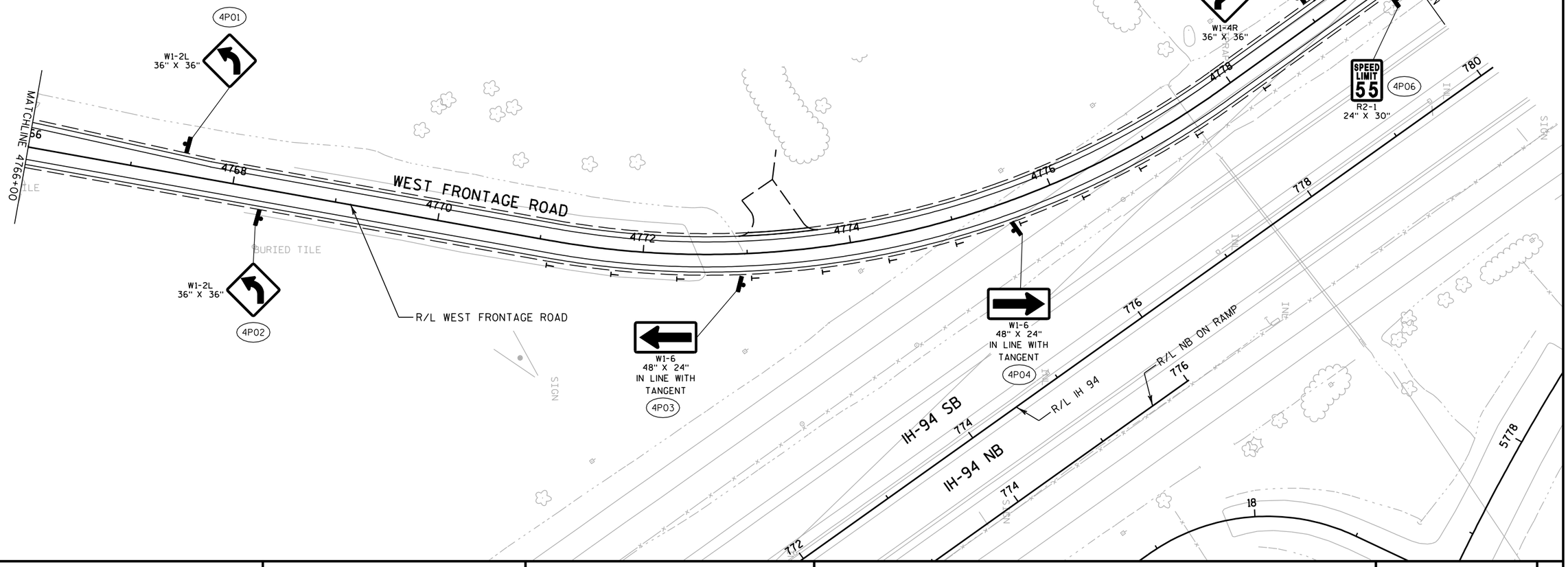
4752 4754 4756 4758 4760 4762 4764

36 38 40 42

PROJECT NO: 1030-24-74	HWY: IH 94	COUNTY: RACINE	PERMANENT SIGNING: WEST FRONTAGE ROAD	SHEET 76	E

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON SIGNAL POLE
- DELINEATOR (DUAL DIRECTION WHITE)
- (XMXX) DENOTES MOVING SIGN NUMBER
- (XPXX) DENOTES PROPOSED SIGN NUMBER



PROJECT NO: 1030-24-74	HWY: IH 94	COUNTY: RACINE	PERMANENT SIGNING: WEST FRONTAGE ROAD	SHEET 77	E

FILE NAME : z:\racine\cadds\13\13w\cds\023210_PS.dgn PLOT DATE : 1/10/2017 PLOT BY : tony.baciak PLOT NAME : PLOT SCALE : 1:100

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON SIGNAL POLE
- DELINEATOR (DUAL DIRECTION WHITE)
- XMXX DENOTES MOVING SIGN NUMBER
- XPXX DENOTES PROPOSED SIGN NUMBER

N

5P02

SPEED LIMIT 45

W3-5
36" X 36"

R/L WEST FRONTAGE ROAD

END PROJECT
I.D. 1030-24-74
STA. 4785+00
= MATCH PROJECT
I.D. 1033-02-78

MATCHLINE 4780+00

4780 4782 4784

WEST FRONTAGE ROAD

NO PASSING ZONE

5P01

W14-3
48" X 36"

NOTE: LOCATE SIGN BASED ON "LOCATING NO-PASSING ZONES" ITEM

IH-94 SB

IH-94 NB

778 780 782 784 786 788 790 792

R/L IH 94

R/L EAST FRONTAGE ROAD

5780 5782 5784 5786 5788 5790

52L

SEPTIC A.C ANT WELL POOL SEPC SEPC SEPTIC SIGN INL

PROJECT NO: 1030-24-74	HWY: IH 94	COUNTY: RACINE	PERMANENT SIGNING: WEST FRONTAGE ROAD	SHEET 78 E

FILE NAME : z:\racine\cadds\13\13w\cds\023211_PS.dgn PLOT DATE : 1/10/2017 PLOT BY : tony.baciak PLOT NAME : PLOT SCALE : 1:100

2

MATCHLINE 4766+00

WEST FRONTAGE ROAD

BURIED TILE

BURIED TILE

R/L WEST FRONTAGE ROAD

6P08
NOTE: LOCATE SIGN BASED ON "LOCATING NO-PASSING ZONES" ITEM

6P05 STOP
R1-1
36" X 36"

6P06 CROSS TRAFFIC DOES NOT STOP
W4-4P
24" X 12"
MOUNT ON FLASHER POLE

NO PASSING ZONE
W14-3
48" X 36"

6P10
W3-1
36" X 36"
INSTALL 750' FROM FLASHING BEACON

MATCHLINE 48+00

WALLS

SEE WEST FRONTAGE ROAD

3M20 SPEED LIMIT 45

6P02 STOP
R1-1
36" X 36"

4762

4764

MH

58TH ROAD

R/L 58TH ROAD

6P03 STOP
R1-1
36" X 36"

6P04 CROSS TRAFFIC DOES NOT STOP
W4-4P
24" X 12"
MOUNT ON FLASHER POLE

4760

SEE WEST FRONTAGE ROAD

STOP
R1-1
36" X 36"
6P07

SPEED LIMIT 45
R2-1
24" X 30"
6P09

PCMS

6P01
W3-1
36" X 36"
INSTALL 750' FROM FLASHING BEACON

SIGN

4758

1. INSTALL PCMS 1000' FROM FLASHING BEACON.
2. PCMS MESSAGE TO READ "STOP AHEAD".
3. MAINTAIN FOR 30 DAYS AFTER FLASHING BEACON INSTALLATION.
4. PAID FOR UNDER APPROPRIATE TRAFFIC CONTROL ITEMS.

MATCHLINE 4757+00

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON SIGNAL POLE
- DELINEATOR (DUAL DIRECTION WHITE)
- (XMXX) DENOTES MOVING SIGN NUMBER
- (XPXX) DENOTES PROPOSED SIGN NUMBER

PROJECT NO: 1030-24-74	HWY: IH 94	COUNTY: RACINE	PERMANENT SIGNING: 58TH ROAD	SHEET 79	E

1. INSTALL PCMS 1000' FROM FLASHING BEACON.
2. PCMS MESSAGE TO READ "STOP AHEAD".
3. MAINTAIN FOR 30 DAYS AFTER FLASHING BEACON INSTALLATION.
4. PAID FOR UNDER APPROPRIATE TRAFFIC CONTROL ITEMS.

R/L SB OFF RAMP
R/L IH 94
R/L NB ON RAMP
PCMS
R/L 58TH ROAD
7P03
SPEED LIMIT 45
R2-1
24" X 30"
MATCHLINE 48+00
58TH ROAD
STOP
R1-1
36" X 36"
7P05
DEAD END
W14-1
30" X 30"
7P04
NO PASSING ZONE
W14-3
48" X 36"
7P02
NOTE: LOCATE SIGN BASED ON "LOCATING NO-PASSING ZONES" ITEM
END CONSTRUCTION
I.D. 1030-24-74
STA 57+72
=MATCH PROJECT I.D. 1030-24-70
ACCESS ROAD "B"
R/L ACCESS ROAD 'B'
W5-56A
18" X 18"
7P06
7P07
7P08
IH-94 SB
IH-94 NB
EAST FRONTAGE ROAD
SEPTIC
SOO LINE RAILROAD CO.
BURIED TILE
SIGN

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON SIGNAL POLE
- DELINEATOR (DUAL DIRECTION WHITE)
- XMXX DENOTES MOVING SIGN NUMBER
- XPXX DENOTES PROPOSED SIGN NUMBER

PROJECT NO: 1030-24-74	HWY: IH 94	COUNTY: RACINE	PERMANENT SIGNING: 58TH ROAD	SHEET 80	E

FILE NAME : z:\racine\cadds\13\13w\cds\023213_PS.dgn PLOT DATE : 1/10/2017 PLOT BY : tony.baciak PLOT NAME : PLOT SCALE : 1:100

2

2

N

WEST FRONTAGE ROAD

58TH RD.

SIGN

OH

T

C

TV

MH

STOP

CROSS TRAFFIC DOES NOT STOP

SOLAR FLASHING BEACON
(SEE DETAIL & QTYS)

WEST FRONTAGE ROAD

58TH RD.

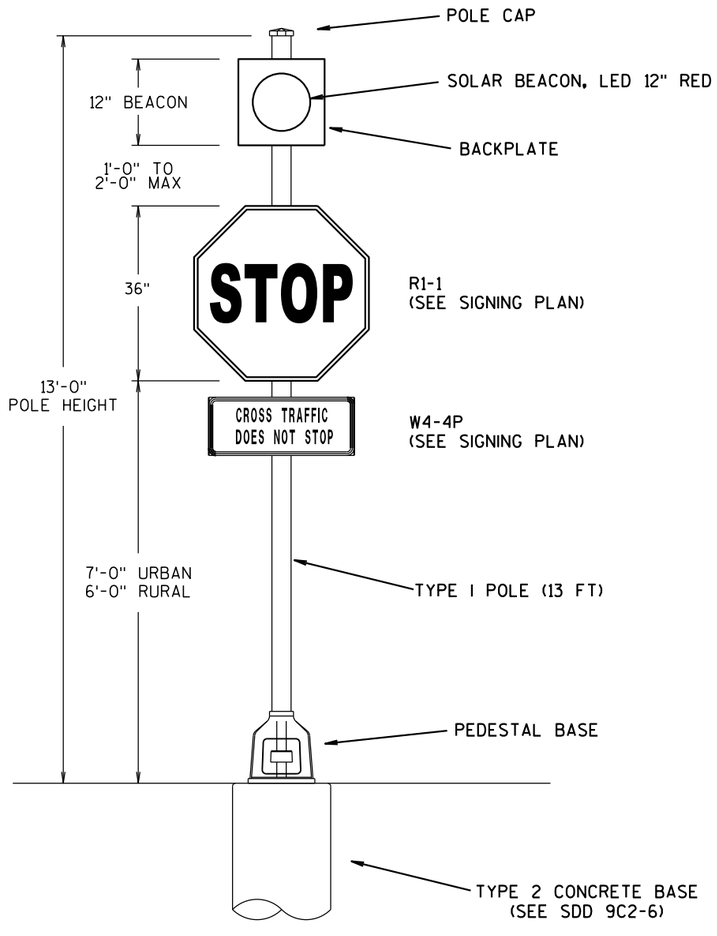
SIGN

PROJECT NO: 1030-24-74	HWY: IH 94	COUNTY: RACINE	SOLAR FLASHING BEACONS @ 58TH RD.	SHEET 81	E

FILE NAME : J:\projects\d2_10302494\74\Sign\023201_PS.dgn PLOT DATE : 24-AUG-2016 13:17 PLOT BY : dotshw PLOT NAME : PLOT SCALE : 40:1

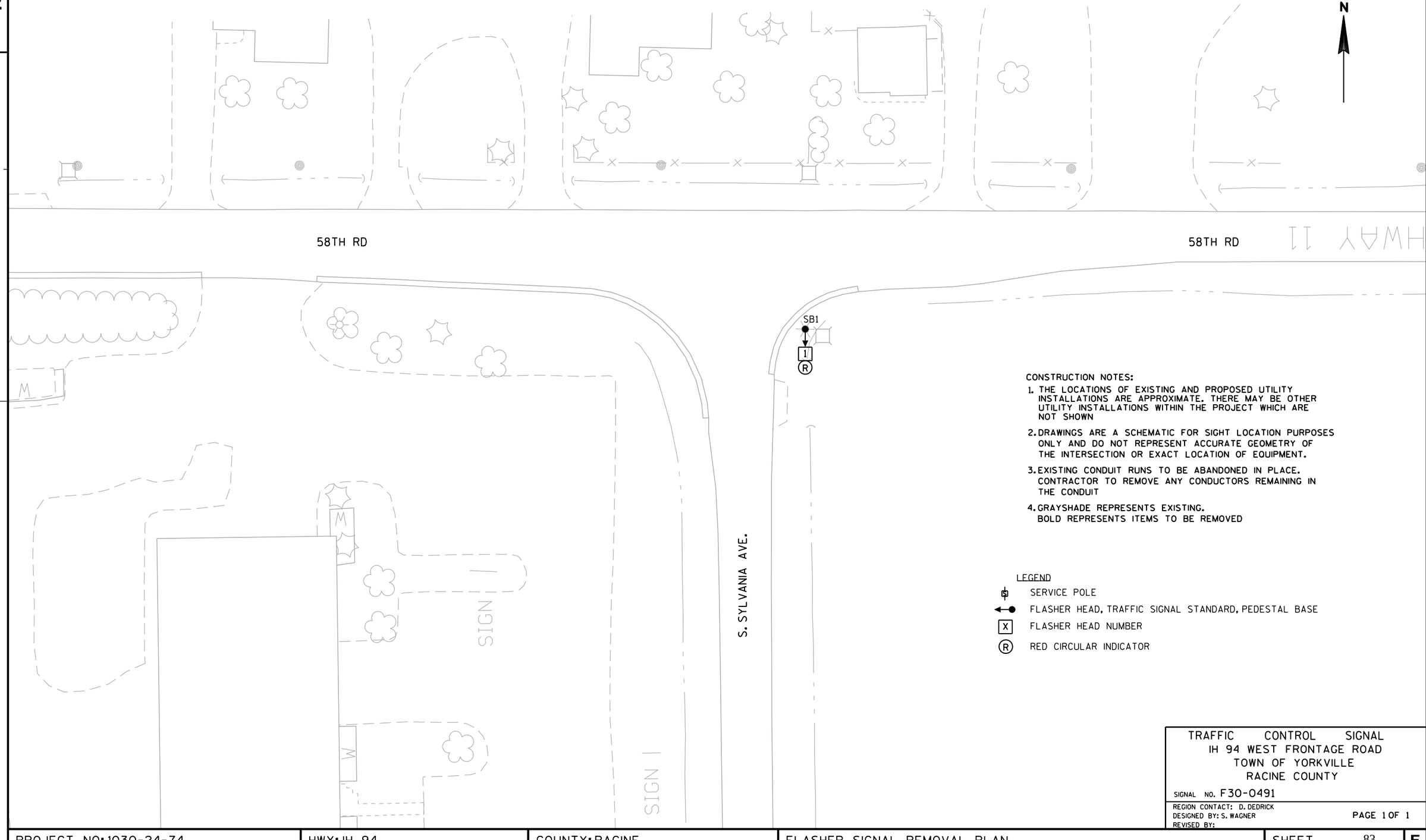
WISDOT/CADDS SHEET 42

2



13' SOLAR BEACON ASSEMBLY
(STOP SIGN APPLICATION)

2



CONSTRUCTION NOTES:

1. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN
2. DRAWINGS ARE A SCHEMATIC FOR SIGHT LOCATION PURPOSES ONLY AND DO NOT REPRESENT ACCURATE GEOMETRY OF THE INTERSECTION OR EXACT LOCATION OF EQUIPMENT.
3. EXISTING CONDUIT RUNS TO BE ABANDONED IN PLACE. CONTRACTOR TO REMOVE ANY CONDUCTORS REMAINING IN THE CONDUIT
4. GRAYSHADE REPRESENTS EXISTING. BOLD REPRESENTS ITEMS TO BE REMOVED

LEGEND

- SERVICE POLE
- FLASHER HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- [X] FLASHER HEAD NUMBER
- (R) RED CIRCULAR INDICATOR

TRAFFIC CONTROL SIGNAL
IH 94 WEST FRONTAGE ROAD
TOWN OF YORKVILLE
RACINE COUNTY

SIGNAL NO. F30-0491

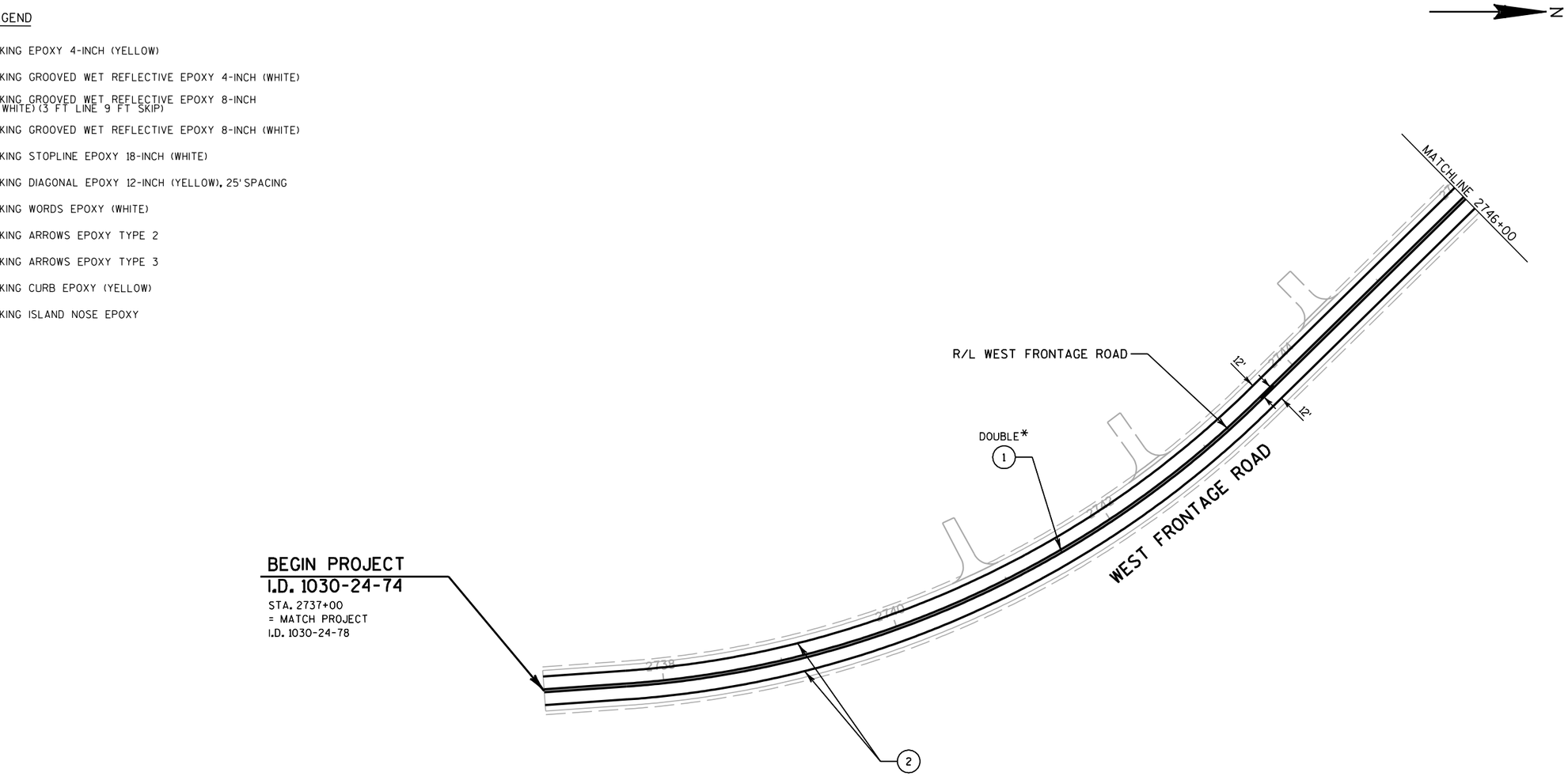
REGION CONTACT: D. DEDRICK
DESIGNED BY: S. WAGNER
REVISED BY:

PAGE 1 OF 1

PROJECT NO: 1030-24-74	HWY: IH 94	COUNTY: RACINE	FLASHER SIGNAL REMOVAL PLAN	SHEET 83	E

LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
2. PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
5. PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 8-INCH (DOT PATTERN WHITE)(3 FT LINE 9 FT SKIP)
6. PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 8-INCH (WHITE)
7. PAVEMENT MARKING STOPLINE EPOXY 18-INCH (WHITE)
10. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW), 25' SPACING
14. PAVEMENT MARKING WORDS EPOXY (WHITE)
16. PAVEMENT MARKING ARROWS EPOXY TYPE 2
17. PAVEMENT MARKING ARROWS EPOXY TYPE 3
20. PAVEMENT MARKING CURB EPOXY (YELLOW)
21. PAVEMENT MARKING ISLAND NOSE EPOXY

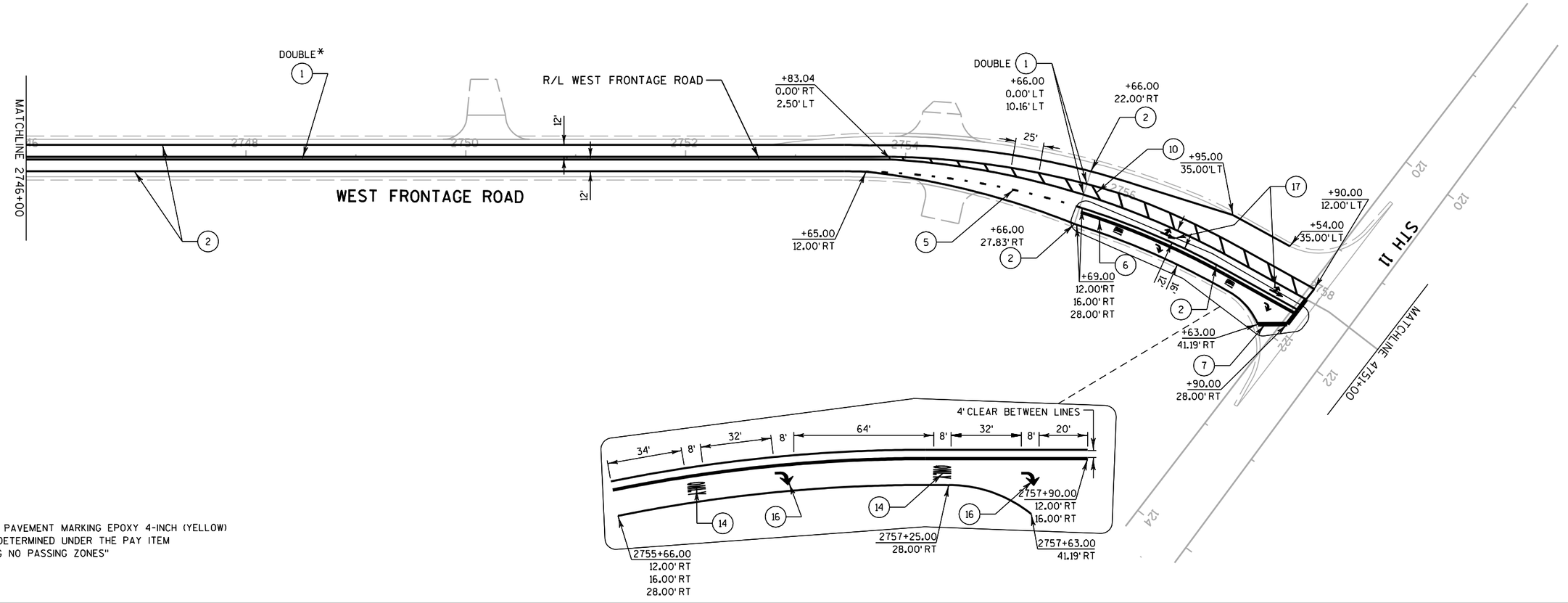


2

2

LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
2. PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
5. PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 8-INCH (DOT PATTERN WHITE)(3 FT LINE 9 FT SKIP)
6. PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 8-INCH (WHITE)
7. PAVEMENT MARKING STOPLINE EPOXY 18-INCH (WHITE)
10. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW), 25' SPACING
14. PAVEMENT MARKING WORDS EPOXY (WHITE)
16. PAVEMENT MARKING ARROWS EPOXY TYPE 2
17. PAVEMENT MARKING ARROWS EPOXY TYPE 3
20. PAVEMENT MARKING CURB EPOXY (YELLOW)
21. PAVEMENT MARKING ISLAND NOSE EPOXY



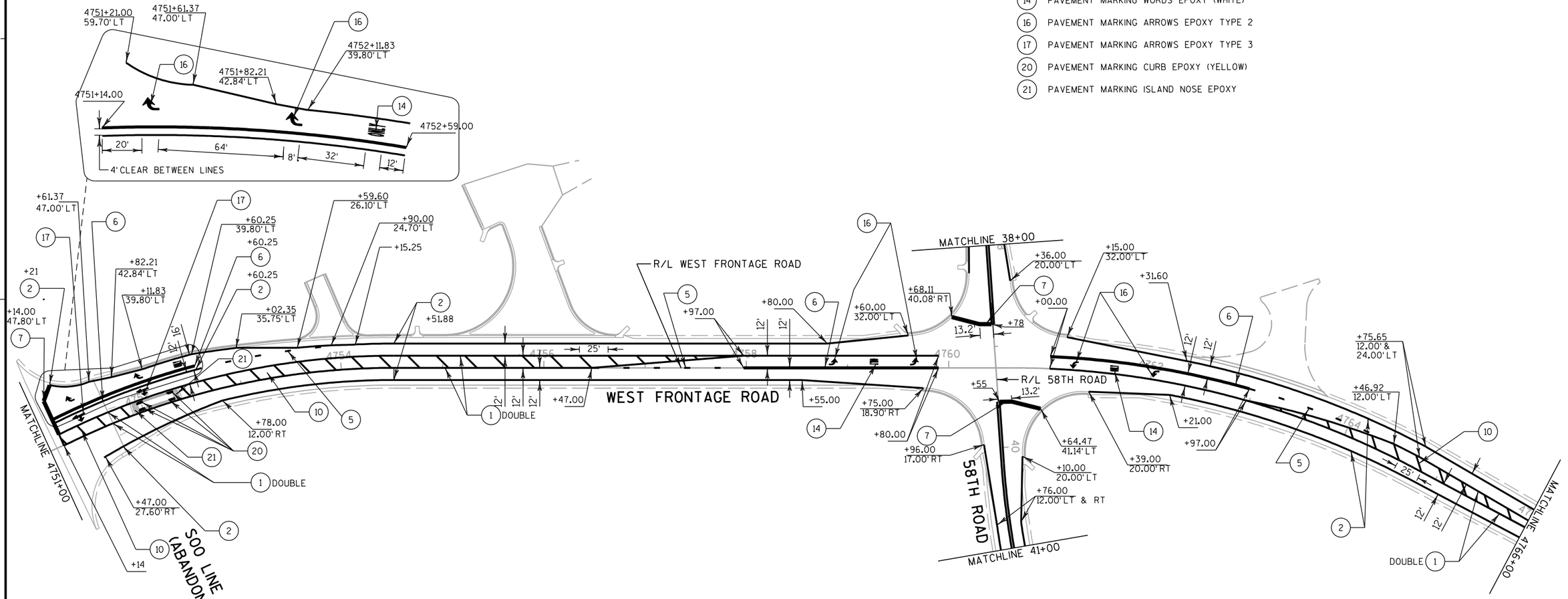
* LIMITS OF PAVEMENT MARKING EPOXY 4-INCH (YELLOW) WILL BE DETERMINED UNDER THE PAY ITEM "LOCATING NO PASSING ZONES"

PROJECT NO: 1030-24-74	HWY: IH 94	COUNTY: RACINE	PAVEMENT MARKING: WEST FRONTAGE ROAD	SHEET 85	E

2

LEGEND

1	PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
2	PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
5	PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 8-INCH (DOT PATTERN WHITE)(3 FT LINE 9 FT SKIP)
6	PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 8-INCH (WHITE)
7	PAVEMENT MARKING STOPLINE EPOXY 18-INCH (WHITE)
10	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW), 25'SPACING
14	PAVEMENT MARKING WORDS EPOXY (WHITE)
16	PAVEMENT MARKING ARROWS EPOXY TYPE 2
17	PAVEMENT MARKING ARROWS EPOXY TYPE 3
20	PAVEMENT MARKING CURB EPOXY (YELLOW)
21	PAVEMENT MARKING ISLAND NOSE EPOXY



* LIMITS OF PAVEMENT MARKING EPOXY 4-INCH (YELLOW) WILL BE DETERMINED UNDER THE PAY ITEM "LOCATING NO PASSING ZONES"

PROJECT NO: 1030-24-74	HWY: IH 94	COUNTY: RACINE	PAVEMENT MARKING: WEST FRONTAGE ROAD	SHEET 86	E

2

LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
2. PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
5. PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 8-INCH (DOT PATTERN WHITE)(3 FT LINE 9 FT SKIP)
6. PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 8-INCH (WHITE)
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10. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW), 25' SPACING
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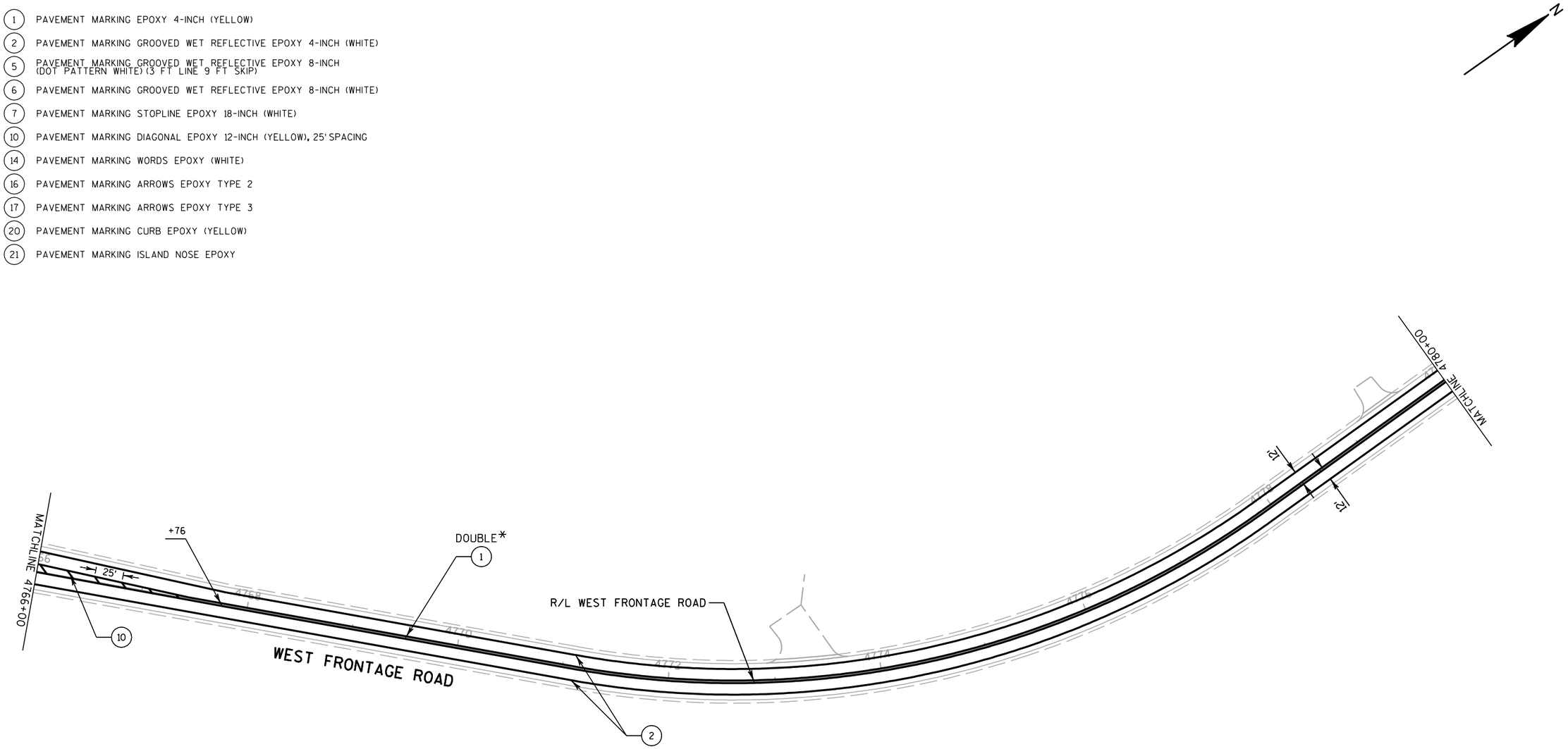
20. PAVEMENT MARKING CURB EPOXY (YELLOW)
21. PAVEMENT MARKING ISLAND NOSE EPOXY



* LIMITS OF PAVEMENT MARKING EPOXY 4-INCH (YELLOW) WILL BE DETERMINED UNDER THE PAY ITEM "LOCATING NO PASSING ZONES"

PROJECT NO: 1030-24-74	HWY: IH 94	COUNTY: RACINE	PAVEMENT MARKING: WEST FRONTAGE ROAD	SHEET 87	E

2

N

LEGEND

(1) PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
(2) PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
(5) PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 8-INCH (DOT PATTERN WHITE)(3 FT LINE 9 FT SKIP)
(6) PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 8-INCH (WHITE)
(7) PAVEMENT MARKING STOPLINE EPOXY 18-INCH (WHITE)
(10) PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW), 25' SPACING
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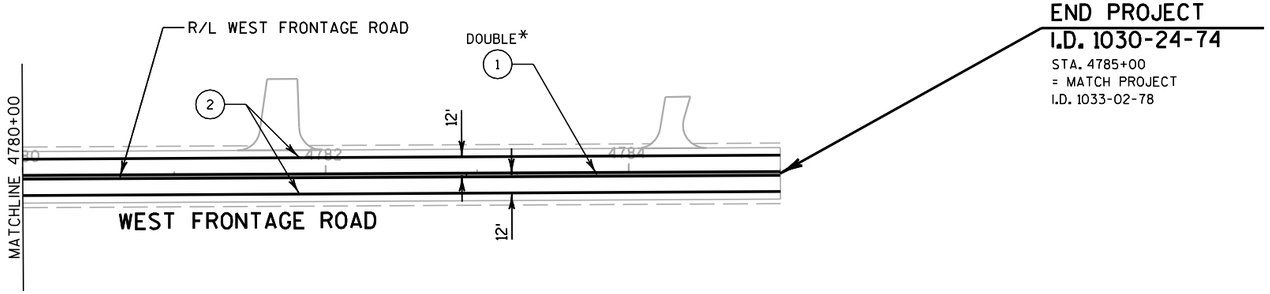
(16) PAVEMENT MARKING ARROWS EPOXY TYPE 2
(17) PAVEMENT MARKING ARROWS EPOXY TYPE 3
(20) PAVEMENT MARKING CURB EPOXY (YELLOW)
(21) PAVEMENT MARKING ISLAND NOSE EPOXY



* LIMITS OF PAVEMENT MARKING EPOXY 4-INCH (YELLOW) WILL BE DETERMINED UNDER THE PAY ITEM "LOCATING NO PASSING ZONES"

PROJECT NO: 1030-24-74	HWY: IH 94	COUNTY: RACINE	PAVEMENT MARKING: WEST FRONTAGE ROAD	SHEET 88	E

2

LEGEND

1	PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
2	PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
5	PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 8-INCH (DOT PATTERN WHITE)(3 FT LINE 9 FT SKIP)
6	PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 8-INCH (WHITE)
7	PAVEMENT MARKING STOPLINE EPOXY 18-INCH (WHITE)
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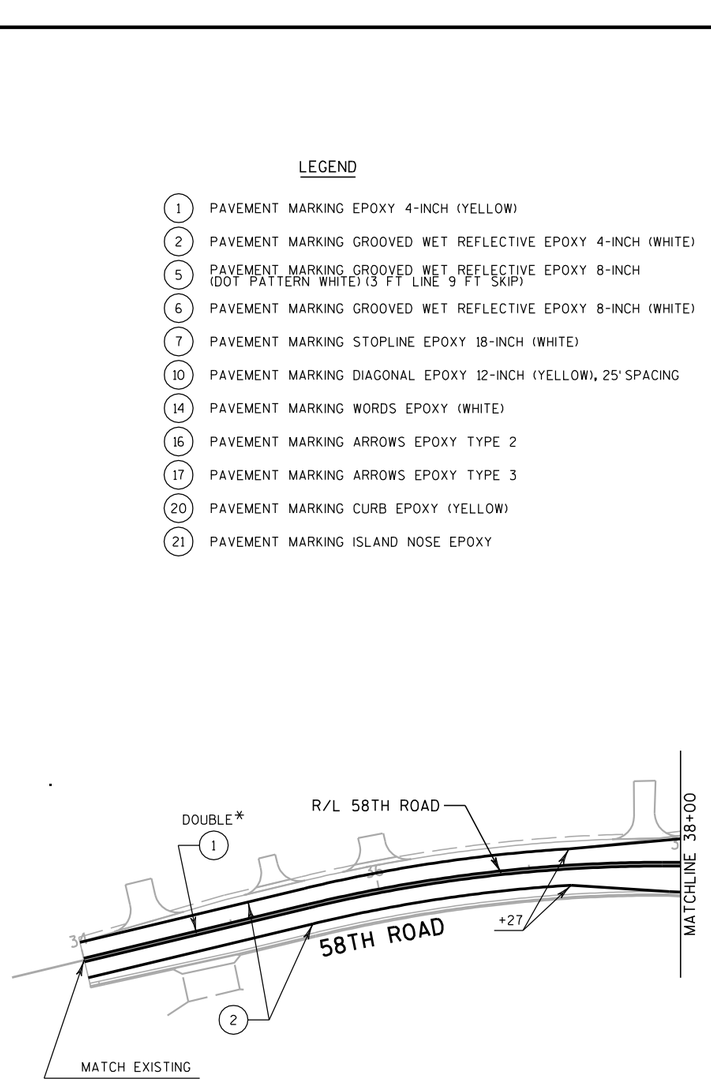
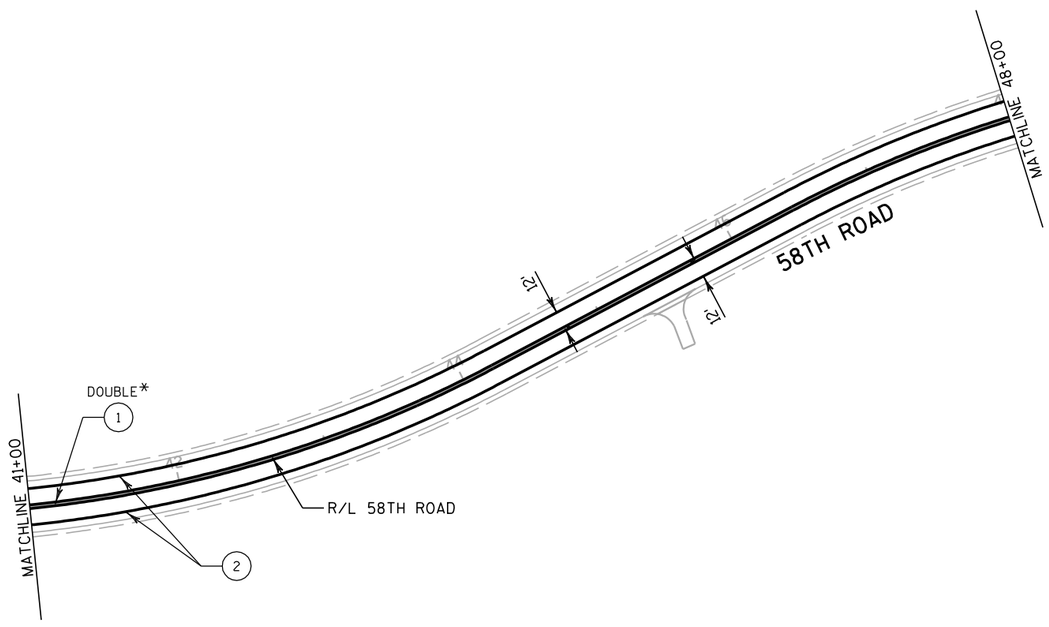
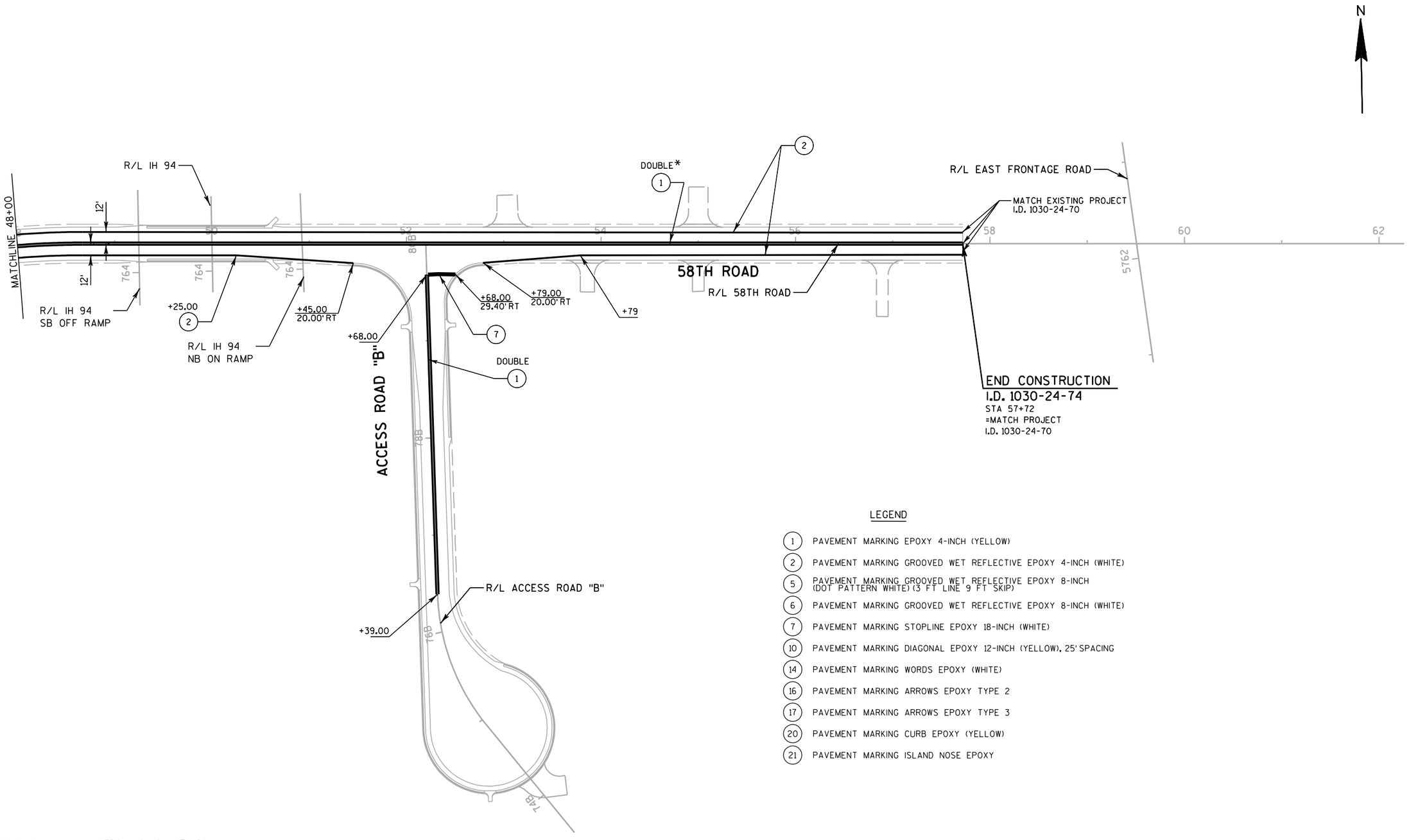
17	PAVEMENT MARKING ARROWS EPOXY TYPE 3
20	PAVEMENT MARKING CURB EPOXY (YELLOW)
21	PAVEMENT MARKING ISLAND NOSE EPOXY



SEE WEST FRONTAGE ROAD



* LIMITS OF PAVEMENT MARKING EPOXY 4-INCH (YELLOW) WILL BE DETERMINED UNDER THE PAY ITEM "LOCATING NO PASSING ZONES"



LEGEND

1	PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
2	PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
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17	PAVEMENT MARKING ARROWS EPOXY TYPE 3
20	PAVEMENT MARKING CURB EPOXY (YELLOW)
21	PAVEMENT MARKING ISLAND NOSE EPOXY

* LIMITS OF PAVEMENT MARKING EPOXY 4-INCH (YELLOW) WILL BE DETERMINED UNDER THE PAY ITEM "LOCATING NO PASSING ZONES"

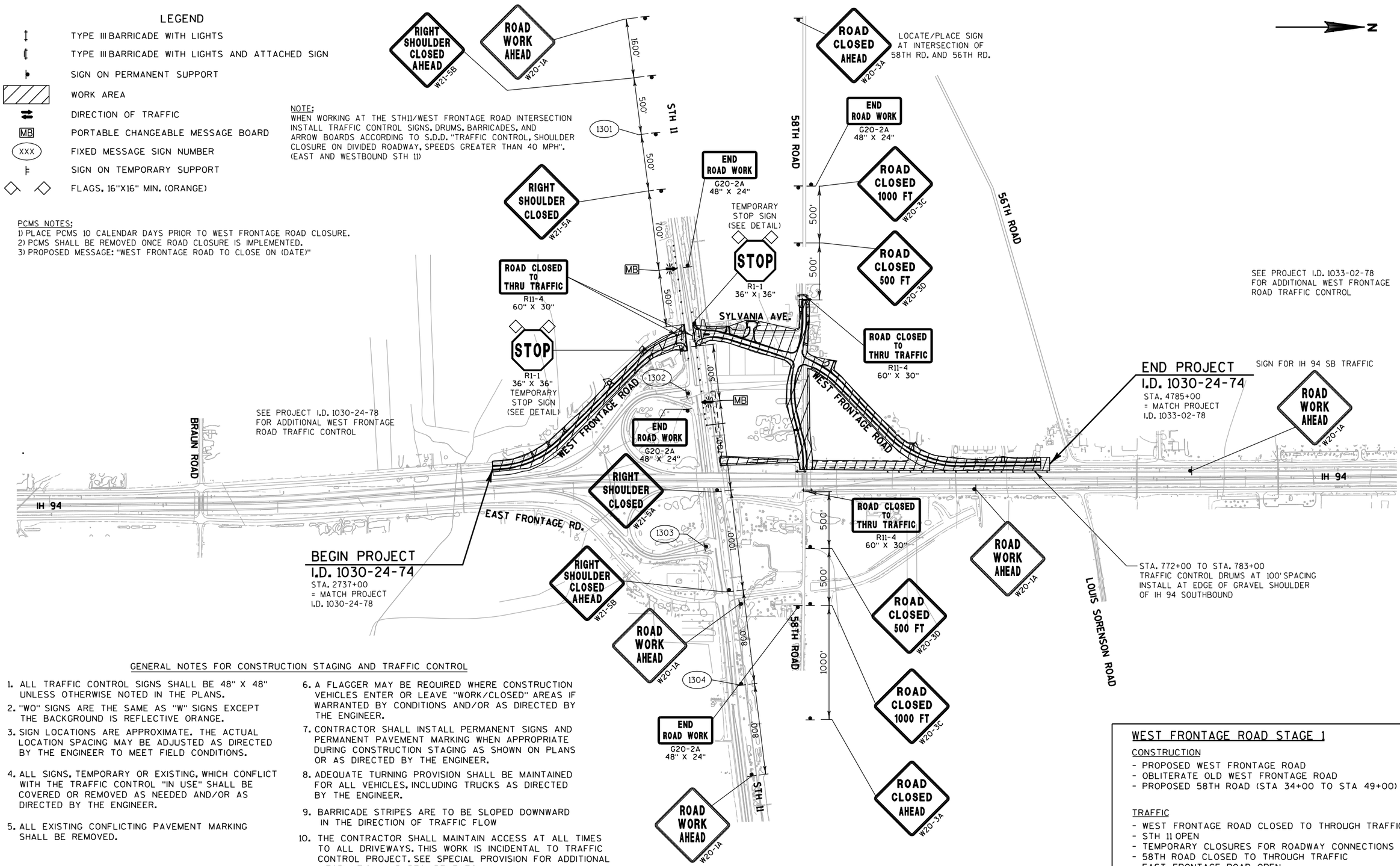
PROJECT NO: 1030-24-74	HWY: IH 94	COUNTY: RACINE	PAVEMENT MARKING: 58TH ROAD	SHEET 90	E

LEGEND

- TYPE III BARRICADE WITH LIGHTS
- TYPE III BARRICADE WITH LIGHTS AND ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- WORK AREA
- DIRECTION OF TRAFFIC
- MB — PORTABLE CHANGEABLE MESSAGE BOARD
- XXX — FIXED MESSAGE SIGN NUMBER
- SIGN ON TEMPORARY SUPPORT
- FLAGS, 16"X16" MIN. (ORANGE)

NOTE:
WHEN WORKING AT THE STH11/WEST FRONTAGE ROAD INTERSECTION INSTALL TRAFFIC CONTROL SIGNS, DRUMS, BARRICADES, AND ARROW BOARDS ACCORDING TO S.D.D. "TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH". (EAST AND WESTBOUND STH 11)

PCMS NOTES:
1) PLACE PCMS 10 CALENDAR DAYS PRIOR TO WEST FRONTAGE ROAD CLOSURE.
2) PCMS SHALL BE REMOVED ONCE ROAD CLOSURE IS IMPLEMENTED.
3) PROPOSED MESSAGE: "WEST FRONTAGE ROAD TO CLOSE ON (DATE)"



GENERAL NOTES FOR CONSTRUCTION STAGING AND TRAFFIC CONTROL

1. ALL TRAFFIC CONTROL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED IN THE PLANS.
2. "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS REFLECTIVE ORANGE.
3. SIGN LOCATIONS ARE APPROXIMATE. THE ACTUAL LOCATION SPACING MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER TO MEET FIELD CONDITIONS.
4. ALL SIGNS, TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE COVERED OR REMOVED AS NEEDED AND/OR AS DIRECTED BY THE ENGINEER.
5. ALL EXISTING CONFLICTING PAVEMENT MARKING SHALL BE REMOVED.
6. A FLAGGER MAY BE REQUIRED WHERE CONSTRUCTION VEHICLES ENTER OR LEAVE "WORK/CLOSED" AREAS IF WARRANTED BY CONDITIONS AND/OR AS DIRECTED BY THE ENGINEER.
7. CONTRACTOR SHALL INSTALL PERMANENT SIGNS AND PERMANENT PAVEMENT MARKING WHEN APPROPRIATE DURING CONSTRUCTION STAGING AS SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER.
8. ADEQUATE TURNING PROVISION SHALL BE MAINTAINED FOR ALL VEHICLES, INCLUDING TRUCKS AS DIRECTED BY THE ENGINEER.
9. BARRICADE STRIPES ARE TO BE SLOPED DOWNWARD IN THE DIRECTION OF TRAFFIC FLOW
10. THE CONTRACTOR SHALL MAINTAIN ACCESS AT ALL TIMES TO ALL DRIVEWAYS. THIS WORK IS INCIDENTAL TO TRAFFIC CONTROL PROJECT. SEE SPECIAL PROVISION FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

WEST FRONTAGE ROAD STAGE 1

CONSTRUCTION
- PROPOSED WEST FRONTAGE ROAD
- OBLITERATE OLD WEST FRONTAGE ROAD
- PROPOSED 58TH ROAD (STA 34+00 TO STA 49+00)

TRAFFIC
- WEST FRONTAGE ROAD CLOSED TO THROUGH TRAFFIC
- STH 11 OPEN
- TEMPORARY CLOSURES FOR ROADWAY CONNECTIONS
- 58TH ROAD CLOSED TO THROUGH TRAFFIC
- EAST FRONTAGE ROAD OPEN

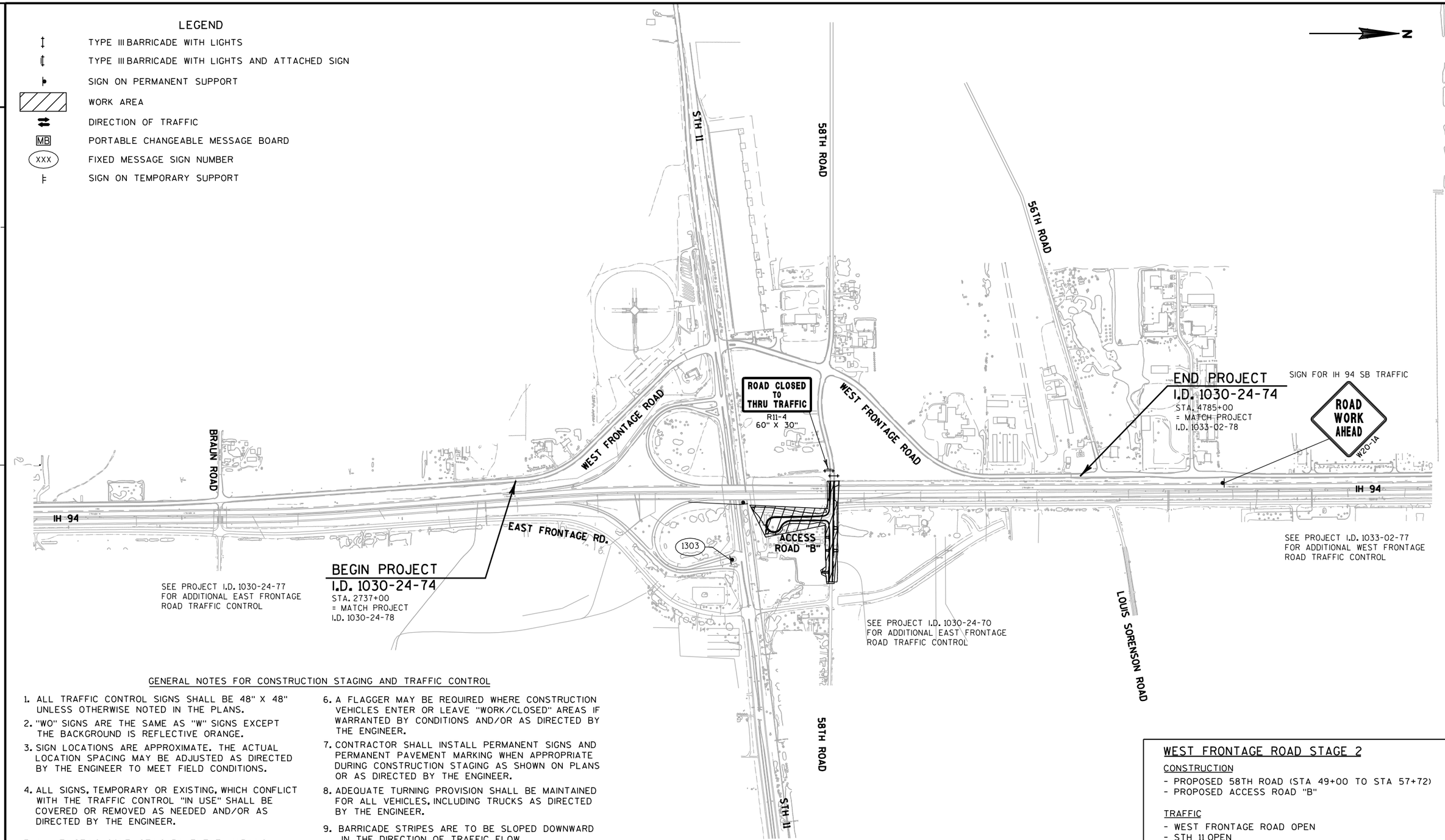
PROJECT NO: 1030-24-74	HWY: IH 94	COUNTY: RACINE	TRAFFIC CONTROL: OVERVIEW - STAGE 1	SHEET 91 E

FILE NAME : Z:\Racine\CADDS\13\13W\CDS\026001_s1.dgn | PLOT DATE : 1/11/2017 | PLOT BY : tony.baciak | PLOT NAME : | PLOT SCALE : 1:800

2

LEGEND

- TYPE III BARRICADE WITH LIGHTS
- TYPE III BARRICADE WITH LIGHTS AND ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- WORK AREA
- DIRECTION OF TRAFFIC
- MB — PORTABLE CHANGEABLE MESSAGE BOARD
- XXX — FIXED MESSAGE SIGN NUMBER
- SIGN ON TEMPORARY SUPPORT



GENERAL NOTES FOR CONSTRUCTION STAGING AND TRAFFIC CONTROL

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2. "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS REFLECTIVE ORANGE.
3. SIGN LOCATIONS ARE APPROXIMATE. THE ACTUAL LOCATION SPACING MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER TO MEET FIELD CONDITIONS.
4. ALL SIGNS, TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE COVERED OR REMOVED AS NEEDED AND/OR AS DIRECTED BY THE ENGINEER.
5. ALL EXISTING CONFLICTING PAVEMENT MARKING SHALL BE REMOVED.
6. A FLAGGER MAY BE REQUIRED WHERE CONSTRUCTION VEHICLES ENTER OR LEAVE "WORK/CLOSED" AREAS IF WARRANTED BY CONDITIONS AND/OR AS DIRECTED BY THE ENGINEER.
7. CONTRACTOR SHALL INSTALL PERMANENT SIGNS AND PERMANENT PAVEMENT MARKING WHEN APPROPRIATE DURING CONSTRUCTION STAGING AS SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER.
8. ADEQUATE TURNING PROVISION SHALL BE MAINTAINED FOR ALL VEHICLES, INCLUDING TRUCKS AS DIRECTED BY THE ENGINEER.
9. BARRICADE STRIPES ARE TO BE SLOPED DOWNWARD IN THE DIRECTION OF TRAFFIC FLOW
10. THE CONTRACTOR SHALL MAINTAIN ACCESS AT ALL TIMES TO ALL DRIVEWAYS. THIS WORK IS INCIDENTAL TO TRAFFIC CONTROL PROJECT. SEE SPECIAL PROVISION FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

WEST FRONTAGE ROAD STAGE 2

CONSTRUCTION

- PROPOSED 58TH ROAD (STA 49+00 TO STA 57+72)
- PROPOSED ACCESS ROAD "B"

TRAFFIC

- WEST FRONTAGE ROAD OPEN
- STH 11 OPEN
- TEMPORARY CLOSURES FOR ROADWAY CONNECTIONS
- 58TH ROAD CLOSED TO THROUGH TRAFFIC
- ACCESS ROAD "B" CLOSED TO THROUGH TRAFFIC
- EAST FRONTAGE ROAD CLOSED TO THROUGH TRAFFIC

PROJECT NO: 1030-24-74	HWY: IH 94	COUNTY: RACINE	TRAFFIC CONTROL: OVERVIEW - STAGE 2	SHEET 92 E

2

LEGEND

- PROPOSED SIGN MOUNTED ON POST(S)
- (X) SIGN NUMBER
- DETOUR ROUTE
- WORK AREA - STAGE 1

NOTES

DURATION: +/- 4 MONTHS
TIME FRAME: +/- MAY 2017 TO AUGUST 2017

ALL SIGNS SHALL BE PLACED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

EXACT NUMBER, LOCATION AND SPACING OF SIGNS AND DEVICES MAY BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FEDERAL HIGHWAY ADMINISTRATION MANUAL OF STANDARD HIGHWAY SIGNS. UNLESS OTHERWISE PROVIDED IN THE PLAN.

SIGNS IN CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE COVERED AS DIRECTED BY THE ENGINEER AND PAID FOR UNDER THE ITEM TRAFFIC CONTROL COVERING SIGNS.

DETOUR SIGNS SHALL BE COVERED OR REMOVED WHEN WEST FRONTAGE ROAD IS OPEN TO TRAFFIC AND SIGN DETOUR IS NOT IN USE. INCIDENTAL TO TRAFFIC CONTROL DETOUR LUMP SUM.

1. DETOUR / WEST FRONTAGE ROAD — M4-8 24" X 12" / M1-95A 24" X 30"
2. END / DETOUR / WEST FRONTAGE ROAD — M4-6 24" X 12" / M4-8 24" X 12" / M1-95A 24" X 30"
3. WEST FRONTAGE ROAD — M1-95A 24" X 30"; DETOUR AHEAD — W20-2A 48" X 48"

- (A) MO6-1 21" X 21"
- (B) MO6-1 21" X 21"
- (C) MO5-1R 21" X 21"
- (D) MO5-1L 21" X 21"
- (E) MO6-1 21" X 21"

PROJECT NO: 1030-24-74	HWY: IH 94	COUNTY: RACINE	DETOUR ROUTE: WEST FRONTAGE ROAD - STAGE 1	SHEET 93	E

FILE NAME : Z:\Racine\CADDS\13\13W\CDS\026300_dt.dgn PLOT DATE : 1/10/2017 PLOT BY : tony.baciak PLOT NAME : PLOT SCALE : 1:2000

2

N

BEGIN PROJECT
I.D. 1030-24-74
STA 2737+00
= MATCH PROJECT
I.D. 1030-24-78

BEGIN FENCE
STA 2737+00, 46' RT
MATCH I.D. 1030-24-78
PROPOSED FENCE

END FENCE
STA 2740+60, 81.2' RT
CONNECT TO EXISTING
FENCE

R/L WEST FRONTAGE ROAD

+00.00
46.61' RT

FENCE WOVEN WIRE 4-FT

EXISTING FENCE
WOVEN WIRE
TO REMAIN

R/L IH 94

R/L NB OFF RAMP

R/L NB ON RAMP

R/L EAST FRONTAGE ROAD

R/L SB OFF RAMP

R/L SB ON RAMP

R/L STH 11

WEST FRONTAGE ROAD

IH 94 SB

IH 94 NB

EAST FRONTAGE ROAD

SB ON RAMP

SB OFF RAMP

NB OFF RAMP

NB ON RAMP

STH 11

SOO LINE RAILROAD CO.

PROJECT NO: 1030-24-74	HWY: IH 94	COUNTY: RACINE	FENCE PLAN: WEST FRONTAGE ROAD	SHEET 94	E

FILE NAME : Z:\Racine\CADDS\13\13W\CDS\027101_FN.dgn PLOT DATE : 7/27/2017 PLOT BY : cory.ihde PLOT NAME : PLOT SCALE : 1:200

2

2

N

BEGIN FENCE
STA 4773+02, 199.2'LT
CONNECT TO EXISTING
FENCE

EXISTING FENCE
WOVEN WIRE
TO REMAIN

4770

4775

4780

4785

R/L WEST FRONTAGE ROAD

56TH ROAD

END PROJECT
I.D. 1030-24-74
STA 4785+00
= MATCH PROJECT
I.D. 1033-02-78

LEETSBIR ROAD

WEST FRONTAGE ROAD

+89.62
56.13'RT

+0.00
46.00'RT

FENCE WOVEN WIRE 4-FT

770 775 780 785 790 795

IH 94 SB

IH 94 NB

R/L IH 94

R/L SB OFF RAMP

770 775

R/L NB ON RAMP

EAST FRONTAGE ROAD

5785 5790

5780

END FENCE
STA 4785+00, 43.98'RT
MATCH I.D. 1033-02-78
PROPOSED FENCE

R/L EAST FRONTAGE ROAD

R/L PRIVATE DRIVEWAY "A"

5775

5770

LOIUS SORENSEN ROAD

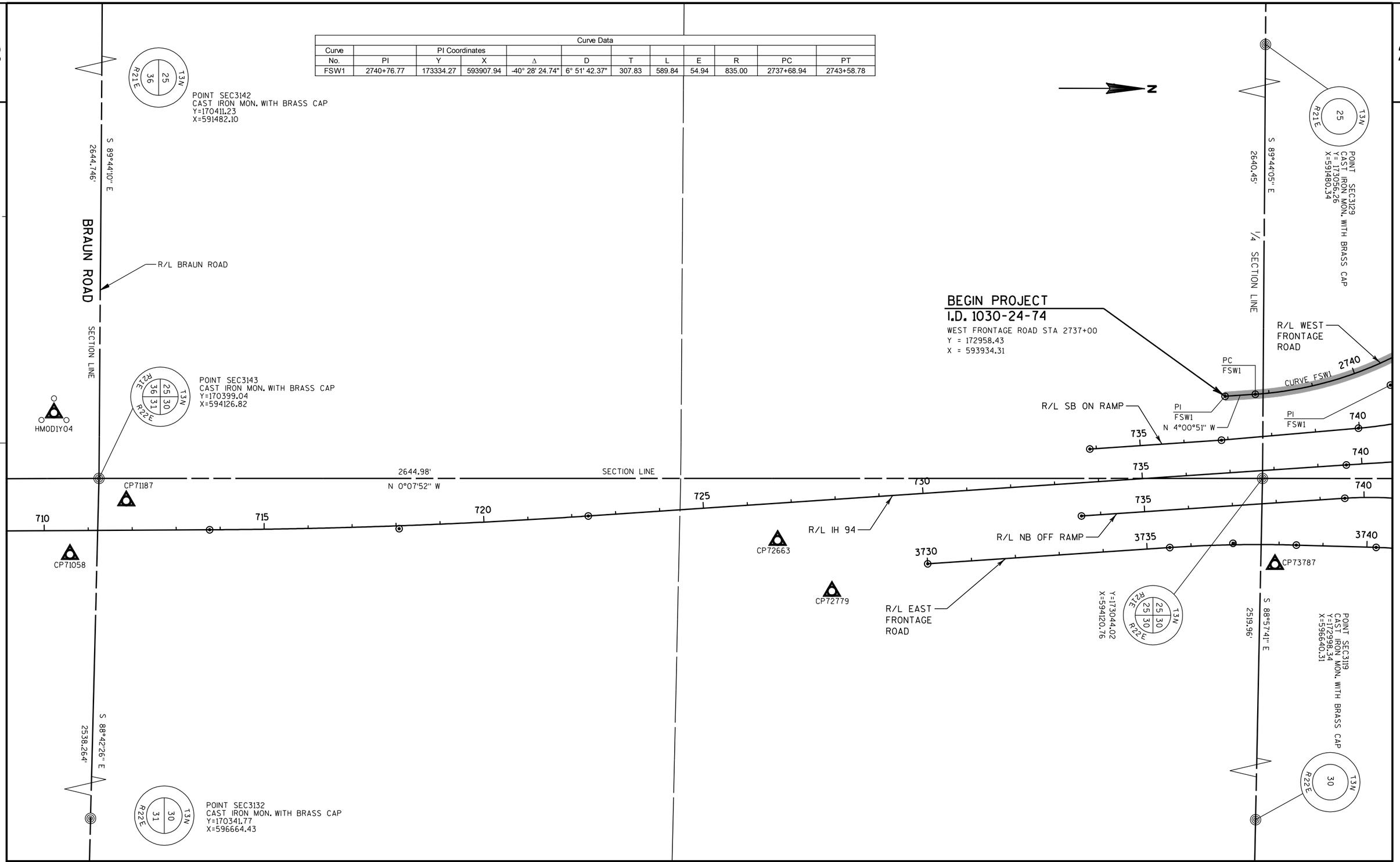
55L

PROJECT NO: 1030-24-74	HWY: IH 94	COUNTY: RACINE	FENCE PLAN: WEST FRONTAGE ROAD	SHEET 95	E

FILE NAME : Z:\Racine\CADDS\13\13W\CDS\027102_FN.dgn PLOT DATE : 7/27/2017 PLOT BY : cory.ihde PLOT NAME : PLOT SCALE : 1:200

WISDOT/CADDS SHEET 42

Curve Data											
Curve		PI Coordinates									
No.	PI	Y	X	Δ	D	T	L	E	R	PC	PT
FSW1	2740+76.77	173334.27	593907.94	-40° 28' 24.74"	6° 51' 42.37"	307.83	589.84	54.94	835.00	2737+68.94	2743+58.78



PROJECT NO: 1030-24-74	HWY: IH 94	COUNTY: RACINE	ALIGNMENT LAYOUT: WEST FRONTAGE ROAD	SHEET 96	E

Curve Data											
Curve		PI Coordinates									
No.	PI	Y	X	Δ	D	T	L	E	R	PC	PT
FSW1	2740+76.77	173334.27	593907.94	-40° 28' 24.74"	6° 51' 42.37"	307.83	589.84	54.94	835.00	2737+68.94	2743+58.78
FSW2	2755+33.40	174391.86	592869.10	29° 02' 40.08"	7° 50' 55.45"	189.09	370.05	24.09	730.00	2753+44.31	2757+14.36
FNW1	4752+97.87	174921.80	592761.75	24° 33' 33.12"	7° 50' 55.45"	158.89	312.91	17.09	730.00	4751+38.97	4754+51.88
FNW2	4762+72.98	175855.68	593058.83	27° 53' 14.60"	6° 44' 26.44"	211.04	413.72	25.81	850.00	4760+61.94	4764+75.65

WEST FRONTAGE ROAD STA. 2737+00
Y = 172958.43
X = 593934.31

S 89°44'05" E
2640.45'

1/4 SECTION LINE

POINT SEC3129
CAST IRON MON. WITH BRASS CAP
Y= 173056.26
X=591480.34

T3N R21E 25

R/L WEST FRONTAGE ROAD

PI FSW2
PT FSW2
PC FSW2
CURVE FSW2
N 15°26'36" W
N 44°29'16" W
2755
2750
2745
2740

PT FSW1
PC FSW1
PI FSW1
CURVE FSW1
N 4°00'51" W

R/L SB ON RAMP
R/L SB OFF RAMP
R/L IH 94
R/L NB OFF RAMP
R/L NB ON RAMP
R/L STH 11
R/L EAST FRONTAGE ROAD

WEST FRONTAGE RD. STA. 2758+13.72 =
WEST FRONTAGE RD. STA. 4750+44.11 =
STH 11 STA. 121+50
Y = 174669.89
X = 592792.29

PC FNW1
PI FNW1
PT FNW1
N 6°54'45" W
CURVE FNW1
4755
N 17°38'48" W
4760

POINT SEC4787
Y=175702.44
X=591478.72
T3N R21E 25 24

PC FNW2
PI FNW2
CURVE FNW2

WEST FRONTAGE RD STA. 4760+46.74 =
58TH RD. STA. 39+21.14
Y = 175640.09
X = 592990.25

R/L 58TH ROAD
N 89° 51' 48.25" W
2639.16'

R/L EXISTING WEST FRONTAGE ROAD
R/L SWALE 1
R/L SWALE 2
R/L ACCESS ROAD "B"
HMOD K 3 RESET

CP73787
CP75480
CP75749
CP76363
CP76489

POINT SEC3119
CAST IRON MON. WITH BRASS CAP
Y=172998.34
X=596640.31
T3N R22E 30

POINT SEC3117
Y=175696.15
X=594117.87
T3N R21E R22E 25 30 24 19

POINT SEC3106
Y=175650.19
X=596615.74
T3N R22E 30 19

Y=173044.02
X=594120.76

S 88°57'41" E
2519.96'

S 89° 56' 45.47" E
1672.58'

PROJECT NO: 1030-24-74	HWY: IH 94	COUNTY: RACINE	ALIGNMENT LAYOUT: WEST FRONTAGE ROAD	SHEET	E

FILE NAME : z:\racine\cadds\13\13w\cds\027202_ad.dgn PLOT DATE : 1/10/2017 PLOT BY : tony.baciak PLOT NAME : PLOT SCALE : 1:200

Curve Data											
Curve		PI Coordinates									
No.	PI	Y	X	Δ	D	T	L	E	R	PC	PT
FNW2	4762+72.98	175855.68	593058.83	27° 53' 14.60"	6° 44' 26.44"	211.04	413.72	25.81	850.00	4760+61.94	4764+75.65
FNW3	4774+69.58	176699.74	593918.78	-45° 49' 49.94"	6° 44' 26.45"	359.32	679.91	72.83	850.00	4771+10.26	4777+90.17

2

2

POINT SEC4787
Y=175702.44
X=591478.72

CP76711

WEST FRONTAGE RD STA. 4760+46.74 =
58TH RD. STA. 39+21.13
Y = 175640.09
X = 592990.25

POINT SEC3103
Y=178363.46
X=591472.83

CURVE FNW2

PC FNW2

PI FNW2

PT FNW2

N 89° 51' 48.25" W
2639.16'

N 45°32'03" E

CURVE FNW3

PC FNW3

PT FNW3

PI FNW3

R/L 58TH ROAD

R/L SWALE 1

R/L EXISTING WEST FRONTAGE ROAD

R/L WEST FRONTAGE ROAD

POB 8764+75.00
Y=175743.87
X=593912.83

N 0° 8' 34.26" W

N 0°17'47" W

EXISTING WEST FRONTAGE ROAD STA= 8774+75.00
WEST FRONTAGE ROAD STA= 4774+87.30, 53.53' RT
Y=176743.87
X=593915.33

CP78837

CP78638

POINT SEC3104
Y=178368.73
X=594112.87

END PROJECT
I.D. 1030-24-74

WEST FRONTAGE ROAD
STA 4785+00
Y= 177768.88
X= 593913.25

R/L SB OFF RAMP

CP76489

CP76363

R/L IH 94

SECTION LINE

2672.58'

N 89° 53' 8.88" E
2640.05'

1/4 LINE

N 0° 6' 25.43" W

N 0° 7' 43.24" W

N 2° 25' 03.86" W

POB 7764+50.00
Y=175720.25
X=594176.88

PI 7767+60.81
Y=176030.79
X=594163.76

POE 7781+33.88
Y=177403.85
X=594160.68

R/L NB ON RAMP

R/L ACCESS ROAD "A"

R/L EAST FRONTAGE ROAD

R/L LOUIS SORENSON ROAD

S 88° 43' 15.63" E
2500.00'

1/4 LINE

POINT SEC3093
Y=178312.92
X=596612.25

PROJECT NO: 1030-24-74	HWY: IH 94	COUNTY: RACINE	ALIGNMENT LAYOUT: WEST FRONTAGE ROAD	SHEET 98 E

FILE NAME : z:\racine\cadds\13\13w\cds\027203_ad.dgn PLOT DATE : 1/10/2017 PLOT BY : tony.baciak PLOT NAME : PLOT SCALE : 1:200

Curve Data											
Curve		PI Coordinates									
No.	PI	Y	X	Δ	D	T	L	E	R	PC	PT
200	36+70.73	175699.42	592745.84	13°30'34.92"	5°43'46.48"	118.44	235.79	6.99	1000.00	35+52.29	37+88.08
201	42+22.27	175569.04	593282.88	-27° 49' 08.92"	6° 51' 42.37"	206.79	405.42	25.22	835.00	40+15.48	44+20.90
202	47+56.48	175701.84	593808.74	15°13'36.77"	6°51'42.37"	111.61'	221.91	7.43	835.00	46+44.87	48+66.78
B1	75B+68.47	175256.40	594280.04	37° 19' 14.78"	25° 27' 53.25"	75.98	146.56	12.48	225.00	74B+92.49	76B+39.04

2

N

POINT SEC3104
Y=178368.73
X=594112.87

T3N 24 19 24 19 R21E R22E

2672.58'
N 0° 6' 25.43" W

SECTION LINE

POINT SEC3117
Y=175696.15
X=594117.87

T3N 24 19 25 30 R21E R22E

R/L IH 94

R/L EXISTING WEST FRONTAGE ROAD

R/L WEST FRONTAGE ROAD

58TH ROAD STA 52+19.80=
ACCESS ROAD 'B' STA 80B+00
Y = 175693.29
X = 594273.30

R/L EAST FRONTAGE ROAD

R/L SWALE 4

BEGIN CONSTRUCTION
58TH ROAD
STA 34+00.00
Y = 175700.07
X = 592475.11

58TH ROAD STA 50+00.00=
IH 94 STA 764+28.24
Y = 175697.33
X = 594053.54

END CONSTRUCTION
ACCESS ROAD "B"
STA 80B+00.00
Y=175693.29
X=594273.30

CP76711

CP76489

CP76363

PI 200

PI 202

S 89° 51' 48.25" E

CURVE 200

S 76° 21' 13.33" E

CURVE 201

N 75° 49' 37.75" E

CURVE 202

N 89° 51' 48.25" W SECTION LINE 2639.16'

S 88° 56' 45.47" E 1672.58'

PC 200

PT 200

PC 201

PT 201

PI 201

PC 202

PT 202

R/L ACCESS ROAD 'B'

T3N 24 25 R21E

POINT SEC4787
Y=175702.44
X=591478.72

R/L 58TH ROAD

WEST FRONTAGE RD STA. 4760+46.74 =
58TH RD. STA. 39+21.14
Y = 175640.09
X = 592990.25

END CONSTRUCTION
SWALE 1
STA 107+09.06
Y=175665.06
X=593879.63

R/L SWALE 1

END CONSTRUCTION
58TH ROAD
STA 57+72.00
Y = 175683.13
X = 594825.41

T3N 19 30 R22E

POINT SEC3106
Y=175650.19
X=596615.74

PT B1

PI B1

CURVE B1

PC B1

POB B1

N 0°53'01" W

N 38°22'16" W

BEGIN CONSTRUCTION
ACCESS ROAD "B"
STA 74B+21.30
Y=175068.46
X=594427.96

R/L SWALE 3

BEGIN CONSTRUCTION
SWALE 1
STA 100+00.00
Y = 174955.99
X = 593880.76

N 0°05'27.33" W

CP75749

N 53°39'35.16" W

R/L SWALE 2

HMOD @3 RESET

END CONSTRUCTION
SWALE 2
STA 201+95.00
Y=175118.44
X=594329.18

BEGIN CONSTRUCTION
SWALE 2
STA 200+00.00
Y=175002.88
X=594172.10

R/L NB IH 94 ON RAMP

R/L STH 11

T3N 25 30 25 30 R21E R22E

Y=173044.02
X=594120.76

R/L NB IH 94 OFF RAMP

R/L SB IH 94 OFF RAMP

CP75480

PROJECT NO: 1030-24-74	HWY: IH 94	COUNTY: RACINE	ALIGNMENT LAYOUT: 58TH ROAD	SHEET 99	E

FILE NAME : z:\racine\cadds\13\13w\cds\027204_ad.dgn PLOT DATE : 1/10/2017 PLOT BY : tony.baciak PLOT NAME : PLOT SCALE : 1:200

WEST FRONTAGE ROAD

CURVE	SUPERELEVATION & CROSS SLOPE DATA	STATION	RATE	
			LEFT	RIGHT
FSW1	BEGIN SUPER TRANSITION	2736+25	-2.00%	-2.00%
	END CROWN RUNOFF	2736+73	-2.00%	FLAT
	REMOVE ADVERSE CROWN	2737+20	-2.00%	-2.00%
	BEGIN FULL SUPER	2738+17	-6.00%	6.00%
	END FULL SUPER	2743+10	-6.00%	6.00%
	REMOVE ADVERSE CROWN	2744+07	-2.00%	2.00%
	BEGIN CROWN RUNON	2744+57	-2.00%	FLAT
	END SUPER TRANSITION	2745+03	-2.00%	-2.00%
FSW2	BEGIN SUPER TRANSITION	2752+38	-2.00%	-2.00%
	END CROWN RUNOFF	2752+84	FLAT	-2.00%
	REMOVE ADVERSE CROWN	2753+29	2.00%	-2.00%
	BEGIN FULL SUPER	2753+75	3.95%	-3.95%
	END FULL SUPER	2756+84	3.95%	-3.95%
	REMOVE ADVERSE CROWN	2757+29	2.00%	-2.00%
	BEGIN CROWN RUNON	2757+75	FLAT	-2.00%
	END SUPER TRANSITION	2758+18	-2.00%	-2.00%
FNW1	BEGIN SUPER TRANSITION	4750+46	-2.00%	-2.00%
	END CROWN RUNOFF	4750+62	FLAT	-2.00%
	REMOVE ADVERSE CROWN	4751+22	2.00%	-2.00%
	BEGIN FULL SUPER	4751+78	3.80%	-3.80%
	END FULL SUPER	4754+13	3.80%	-3.80%
	REMOVE ADVERSE CROWN	4754+68	2.00%	-2.00%
	BEGIN CROWN RUNON	4755+29	FLAT	-2.00%
	END SUPER TRANSITION	4755+91	-2.00%	-2.00%
FNW2	BEGIN SUPER TRANSITION	4759+16	-2.00%	-2.00%
	END CROWN RUNOFF	4759+64	FLAT	-2.00%
	REMOVE ADVERSE CROWN	4760+13	2.00%	-2.00%
	BEGIN FULL SUPER	4761+11	6.00%	-6.00%
	END FULL SUPER	4764+27	6.00%	-6.00%
	REMOVE ADVERSE CROWN	4765+24	2.00%	-2.00%
	BEGIN CROWN RUNON	4765+73	FLAT	-2.00%
	END SUPER TRANSITION	4766+22	-2.00%	-2.00%
FNW3	BEGIN SUPER TRANSITION	4769+64	-2.00%	-2.00%
	END CROWN RUNOFF	4770+13	-2.00%	FLAT
	REMOVE ADVERSE CROWN	4770+62	-2.00%	2.00%
	BEGIN FULL SUPER	4771+59	-6.00%	6.00%
	END FULL SUPER	4777+41	-6.00%	6.00%
	REMOVE ADVERSE CROWN	4778+39	-2.00%	2.00%
	BEGIN CROWN RUNON	4778+88	-2.00%	FLAT
	END SUPER TRANSITION	4779+36	-2.00%	-2.00%

NOTES:

1) POSITIVE VALUES SLOPE TOWARDS THE REFERENCE LINE

2) NEGATIVE VALUES SLOPE AWAY FROM THE REFERENCE LINE

58TH ROAD

CURVE	SUPERELEVATION & CROSS SLOPE DATA	STATION	RATE	
			LEFT	RIGHT
200	BEGIN SUPER TRANSITION	34+05	-2.00%	-2.00%
	END CROWN RUNOFF	34+48	FLAT	-2.00%
	REMOVE ADVERSE CROWN	35+26	2.00%	-2.00%
	BEGIN FULL SUPER	36+05	3.99%	-3.99%
	END FULL SUPER	37+36	3.99%	-3.99%
	REMOVE ADVERSE CROWN	38+14	2.00%	-2.00%
	BEGIN CROWN RUNON	39+53	FLAT	FLAT
201	REMOVE ADVERSE CROWN	40+24	-2.00%	2.00%
	BEGIN FULL SUPER	41+64	-6.00%	6.00%
	END FULL SUPER	48+18	-6.00%	6.00%
	REMOVE ADVERSE CROWN	44+79	-2.00%	2.00%
	END CROWN RUNOFF	45+33	FLAT	FLAT
202	REMOVE ADVERSE CROWN	45+90	2.00%	-2.00%
	BEGIN FULL SUPER	46+94	6.00%	-6.00%
	END FULL SUPER	48+18	6.00%	-6.00%
	REMOVE ADVERSE CROWN	49+16	2.00%	-2.00%
	BEGIN CROWN RUNON	49+65	FLAT	-2.00%
	END SUPER TRANSITION	49+92	-2.00%	-2.00%

NOTES:

1) POSITIVE VALUES SLOPE TOWARDS THE REFERENCE LINE

2) NEGATIVE VALUES SLOPE AWAY FROM THE REFERENCE LINE

NOTE:

WEST FRONTAGE ROAD CROSS SLOPE AT STH 11 MATCH SHOWN IN CROSS SECTIONS

2

2

N

BRAUN ROAD

HMOD 1Y04
EXISTING WISDOT BRONZE DISK IN CONCRETE MARKED BY 2 ORANGE WITNESS POSTS
STA. 710+23.64, 267.73' LT
N=170296.35
E=593977.79
ELEV.=746.26

HMOD1Y04

CP71187
CP BM BRIDGE DISK TOP PARAPET WALL NW CORNER
194 BRIDGE B-51-17-8 OVER BRAUN ROAD
STA. 711+86.89, 66.94' LT
N=170461.19
E=594177.44
ELEV.=767.07

CP71187

CP71058

CP71058
CP BM BRIDGE DISK TOP PARAPET WALL SE CORNER
194 BRIDGE B-51-17-8 OVER BRAUN ROAD
STA. 710+58.19, 54.06' RT
N=170333.46
E=594299.46
ELEV.=767.08

CP72663

CP72663
CP BM TOP SE BOLT E LEG SIGN POST BASE
CIS/EXIT 335 SIGN EAST SIDE NM 194
STA. 726+63.11, 84.17' RT
N=171941.97
E=594263.97
ELEV.=745.34

CP72779

CP72779
F1000SPK BERNTSEN FENO WITH ALUM CAP
STA. 727+78.58, 207.70' RT
N=172065.73
E=594379.21
ELEV.=742.68

CP73787

CP73787
F1000SPK BERNTSEN FENO WITH ALUM CAP
STA. 737+87.50, 214.57' RT
N=173072.55
E=594316.04
ELEV.=742.16

R/L WEST FRONTAGE ROAD

R/L SB ON RAMP

R/L IH 94

R/L NB OFF RAMP

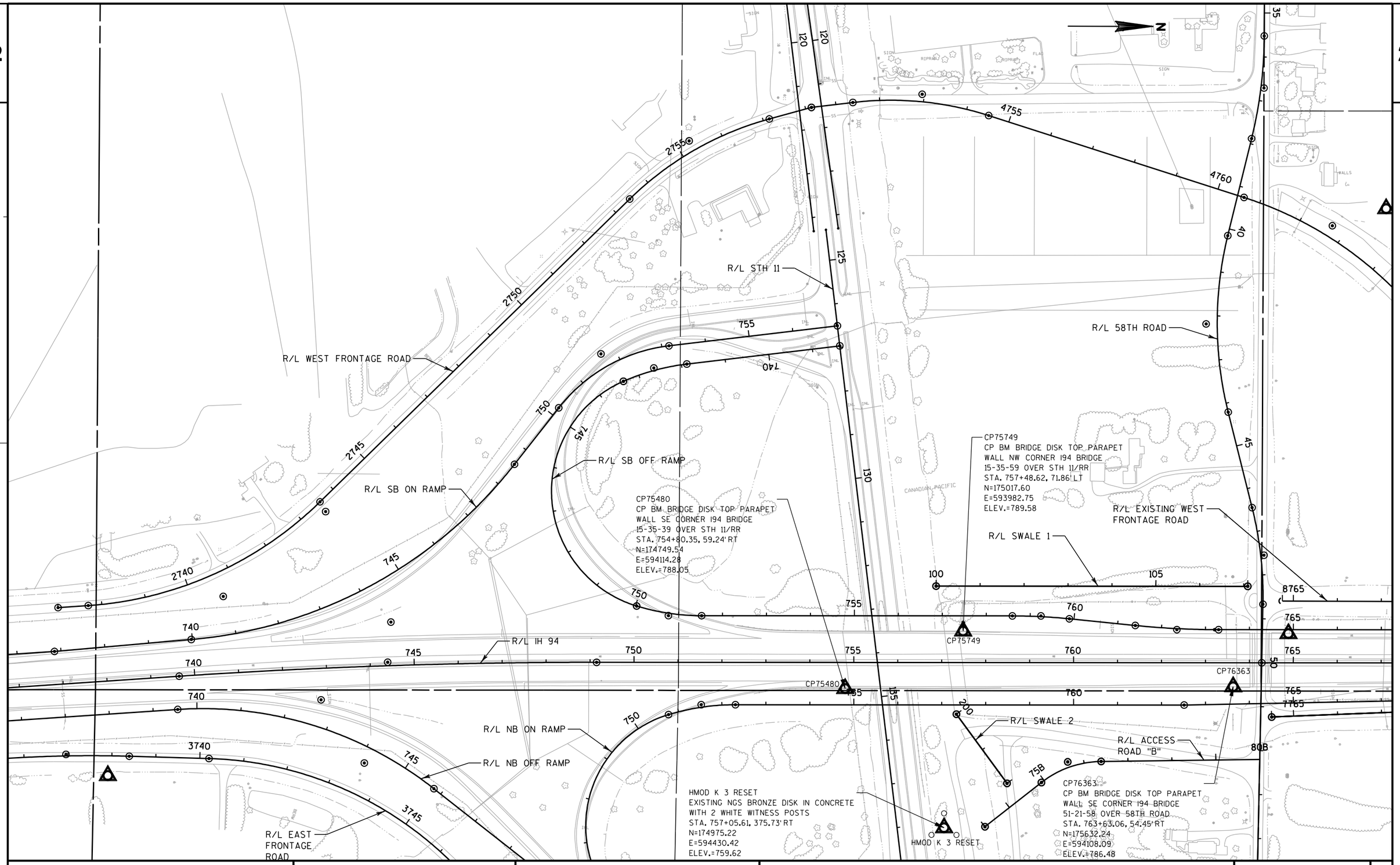
R/L EAST FRONTAGE ROAD

710 715 720 725 730 735 740 2740 735 740 735 740 735 740 3730 3735 3740

PROJECT NO: 1030-24-74	HWY: IH 94	COUNTY: RACINE	ALIGNMENT LAYOUT: WEST FRONTAGE ROAD - SURVEY CONTROL	SHEET 101 E

FILE NAME : z:\racine\cadds\13\13w\cds\027206_ad.dgn PLOT DATE : 1/10/2017 PLOT BY : tony.baciak PLOT NAME : PLOT SCALE : 1:200

WISDOT/CADDS SHEET 42



PROJECT NO: 1030-24-74	HWY: IH 94	COUNTY: RACINE	ALIGNMENT LAYOUT: WEST FRONTAGE ROAD - SURVEY CONTROL	SHEET 102 E

FILE NAME : z:\racine\cadds\13\13w\cds\027207_ad.dgn PLOT DATE : 1/10/2017 PLOT BY : tony.baciak PLOT NAME : PLOT SCALE : 1:200

2

CP76711

CP76711
F1000SPK BERNTSEN FENO WITH ALUM CAP
STA. 767+10.52, 1033.46'LT
N=175977.99
E=593019.63
ELEV.=767.03

CP78837
CP BM CENTER OF TOP OF WELL ALONG S SIDE
BUILDING NW CORNER 56TH RD/W SYLANIA AVE
STA. 726+63.11, 84.17'RT
N=178105.73
E=593733.97
ELEV.=776.60

CP78638
F1000SPK BERNTSEN FENO WITH ALUM CAP
STA. 786+38.07, 235.76'LT
N=177906.79
E=593814.27
ELEV.=774.87

CP78837

CP78638

R/L 58TH ROAD

R/L SWALE 1

R/L EXISTING WEST FRONTAGE ROAD

R/L WEST FRONTAGE ROAD

R/L SB OFF RAMP

CP76489

R/L IH 94

R/L EXISTING WEST FRONTAGE ROAD

R/L ACCESS ROAD "A"

R/L NB ON RAMP

R/L EAST FRONTAGE ROAD

R/L LOUIS SORENSON ROAD

CP76489
CP BM BRIDGE DISK TOP PARAPET WALL NW CORNER
I94 BRIDGE 51-21-58 OVER 58TH ROAD
STA. 764+88.77, 66.58'LT
N=175757.76
E=593986.86
ELEV.=785.04

PROJECT NO: 1030-24-74	HWY: IH 94	COUNTY: RACINE	ALIGNMENT LAYOUT: WEST FRONTAGE ROAD - SURVEY CONTROL	SHEET 103 E

FILE NAME : z:\racine\cadds\13\13w\cds\027208_ad.dgn PLOT DATE : 1/10/2017 PLOT BY : tony.baciak PLOT NAME : PLOT SCALE : 1:200

WISDOT/CADDS SHEET 42

1030-24-74

Line	Item	Item Description	Unit	Total	Qty
0002	108.4400	CPM Progress Schedule	EACH	0.200	0.200
0004	201.0105	Clearing	STA	19.000	19.000
0006	201.0120	Clearing	ID	126.000	126.000
0008	201.0205	Grubbing	STA	19.000	19.000
0010	201.0220	Grubbing	ID	126.000	126.000
0012	203.0100	Removing Small Pipe Culverts	EACH	39.000	39.000
0028	204.0150	Removing Curb & Gutter **P**	LF	435.000	435.000
0032	204.0170	Removing Fence **P**	LF	1,710.000	1,710.000
0034	204.0180	Removing Delineators and Markers	EACH	8.000	8.000
0038	204.0195	Removing Concrete Bases	EACH	1.000	1.000
0066	204.9060.S	Removing (item description) 006. Permanent Barricades Type III	EACH	6.000	6.000
0068	204.9090.S	Removing (item description) 002. Draintile	LF	1,115.000	1,115.000
0072	205.0100	Excavation Common	CY	62,972.000	62,972.000
0074	208.1100	Select Borrow	CY	14,340.000	14,340.000
0076	209.2100	Backfill Granular Grade 2	CY	330.000	330.000
0078	211.0500	Prepare Foundation for Base Aggregate	STA	11.000	11.000
0086	213.0100	Finishing Roadway (project) 030. 1030-24-74	EACH	1.000	1.000
0092	214.0100	Obliterating Old Road	STA	15.000	15.000
0094	305.0110	Base Aggregate Dense 3/4-Inch	TON	3,425.000	3,425.000
0096	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	36,805.000	36,805.000
0098	311.0110	Breaker Run	TON	1,880.000	1,880.000
0100	440.4410	Incentive IRI Ride	DOL	3,990.000	3,990.000
0104	455.0605	Tack Coat	GAL	1,050.000	1,050.000
0106	460.2000	Incentive Density HMA Pavement	DOL	7,560.000	7,560.000
0108	460.5223	HMA Pavement 3 LT 58-28 S	TON	6,895.000	6,895.000
0110	460.5224	HMA Pavement 4 LT 58-28 S	TON	4,780.000	4,780.000
0116	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	515.000	515.000
0118	465.0310	Asphaltic Curb	LF	250.000	250.000
0120	465.0315	Asphaltic Flumes	SY	117.000	117.000
0122	495.1000.S	Cold patch	TON	25.000	25.000
0136	520.3312	Culvert Pipe Class III-A 12-Inch	LF	140.000	140.000
0140	520.3318	Culvert Pipe Class III-A 18-Inch	LF	790.000	790.000
0152	520.8000	Concrete Collars for Pipe	EACH	6.000	6.000
0154	520.8700	Cleaning Culvert Pipes	EACH	1.000	1.000
0156	521.1012	Apron Endwalls for Culvert Pipe Steel 12-Inch	EACH	6.000	6.000
0160	521.1618	Apron Endwalls for Culvert Pipe Sloped Side Drains Steel 18-Inch 10 to 1	EACH	26.000	26.000
0168	522.0124	Culvert Pipe Reinforced Concrete Class III 24-Inch	LF	199.000	199.000
0170	522.0130	Culvert Pipe Reinforced Concrete Class III 30-Inch	LF	71.000	71.000

1030-24-74

Line	Item	Item Description	Unit	Total	Qty
0172	522.0312	Culvert Pipe Reinforced Concrete Class IV 12-Inch	LF	50.000	50.000
0174	522.0318	Culvert Pipe Reinforced Concrete Class IV 18-Inch	LF	72.000	72.000
0176	522.0324	Culvert Pipe Reinforced Concrete Class IV 24-Inch	LF	34.000	34.000
0180	522.1012	Apron Endwalls for Culvert Pipe Reinforced Concrete 12-Inch	EACH	2.000	2.000
0184	522.1018	Apron Endwalls for Culvert Pipe Reinforced Concrete 18-Inch	EACH	2.000	2.000
0186	522.1024	Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	EACH	15.000	15.000
0188	522.1030	Apron Endwalls for Culvert Pipe Reinforced Concrete 30-Inch	EACH	7.000	7.000
0196	523.0419	Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 19x30-Inch	LF	205.000	205.000
0198	523.0424	Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 24x38-Inch	LF	62.000	62.000
0202	523.0519	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 19x30-Inch	EACH	8.000	8.000
0204	523.0524	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 24x38-Inch	EACH	2.000	2.000
0206	523.0529	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 29x45-Inch	EACH	1.000	1.000
0210	601.0411	Concrete Curb & Gutter 30-Inch Type D **P**	LF	330.000	330.000
0212	601.0553	Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type D **P**	LF	1,600.000	1,600.000
0214	601.0557	Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type D **P**	LF	990.000	990.000
0216	602.0410	Concrete Sidewalk 5-Inch **P**	SF	220.000	220.000
0218	604.0400	Slope Paving Concrete	SY	100.000	100.000
0220	606.0100	Riprap Light	CY	125.000	125.000
0230	608.0324	Storm Sewer Pipe Reinforced Concrete Class III 24-Inch	LF	199.000	199.000
0232	608.0330	Storm Sewer Pipe Reinforced Concrete Class III 30-Inch	LF	354.000	354.000
0246	608.0512	Storm Sewer Pipe Reinforced Concrete Class V 12-Inch	LF	1,900.000	1,900.000
0248	610.0129	Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-III 29x45-Inch	LF	87.000	87.000
0254	611.0535	Manhole Covers Type J-Special	EACH	32.000	32.000
0256	611.0627	Inlet Covers Type HM	EACH	3.000	3.000
0262	611.2005	Manholes 5-FT Diameter	EACH	2.000	2.000
0264	611.2006	Manholes 6-FT Diameter	EACH	3.000	3.000
0270	611.3230	Inlets 2x3-FT	EACH	1.000	1.000
0280	612.0106	Pipe Underdrain 6-Inch	LF	1,345.000	1,345.000

1030-24-74

Line	Item	Item Description	Unit	Total	Qty
0282	612.0108	Pipe Underdrain 8-Inch	LF	300.000	300.000
0284	612.0110	Pipe Underdrain 10-Inch	LF	300.000	300.000
0286	612.0112	Pipe Underdrain 12-Inch	LF	300.000	300.000
0288	612.0206	Pipe Underdrain Unperforated 6-Inch	LF	40.000	40.000
0290	612.0700	Drain Tile Exploration	LF	1,600.000	1,600.000
0292	612.0806	Apron Endwalls for Underdrain Reinforced Concrete 6-Inch	EACH	4.000	4.000
0310	616.0100	Fence Woven Wire (height) 001. 4-FT	LF	1,560.000	1,560.000
0312	616.0700.S	Fence Safety	LF	400.000	400.000
0320	618.0100	Maintenance And Repair of Haul Roads (project) 009. 1030-24-74	EACH	1.000	1.000
0326	619.1000	Mobilization	EACH	0.200	0.200
0328	620.0300	Concrete Median Sloped Nose **P**	SF	170.000	170.000
0330	623.0200	Dust Control Surface Treatment	SY	42,500.000	42,500.000
0332	624.0100	Water	MGAL	850.000	850.000
0334	625.0500	Salvaged Topsoil	SY	106,725.000	106,725.000
0336	627.0200	Mulching	SY	67,885.000	67,885.000
0338	628.1504	Silt Fence	LF	2,575.000	2,575.000
0340	628.1520	Silt Fence Maintenance	LF	2,575.000	2,575.000
0342	628.1905	Mobilizations Erosion Control	EACH	8.000	8.000
0344	628.1910	Mobilizations Emergency Erosion Control	EACH	8.000	8.000
0346	628.2004	Erosion Mat Class I Type B	SY	28,740.000	28,740.000
0348	628.2008	Erosion Mat Urban Class I Type B	SY	8,500.000	8,500.000
0350	628.6510	Soil Stabilizer Type B	ACRE	5.500	5.500
0352	628.7005	Inlet Protection Type A	EACH	15.000	15.000
0354	628.7010	Inlet Protection Type B	EACH	5.000	5.000
0356	628.7015	Inlet Protection Type C	EACH	5.000	5.000
0358	628.7020	Inlet Protection Type D	EACH	2.000	2.000
0360	628.7504	Temporary Ditch Checks	LF	690.000	690.000
0362	628.7555	Culvert Pipe Checks	EACH	425.000	425.000
0364	628.7560	Tracking Pads	EACH	12.000	12.000
0366	628.7570	Rock Bags	EACH	165.000	165.000
0368	630.0140	Seeding Mixture No. 40	LB	315.000	315.000
0370	630.0200	Seeding Temporary	LB	2,780.000	2,780.000
0372	633.0100	Delineator Posts Steel	EACH	43.000	43.000
0374	633.0500	Delineator Reflectors	EACH	86.000	86.000
0376	633.5200	Markers Culvert End	EACH	37.000	37.000
0378	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	3.000	3.000
0380	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	25.000	25.000
0382	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	23.000	23.000

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Line	Item	Item Description	Unit	Total	Qty
0384	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	4.000	4.000
0388	637.2210	Signs Type II Reflective H	SF	233.720	233.720
0390	637.2220	Signs Type II Reflective SH	SF	6.750	6.750
0392	637.2230	Signs Type II Reflective F	SF	210.750	210.750
0394	638.2102	Moving Signs Type II	EACH	3.000	3.000
0396	638.2602	Removing Signs Type II	EACH	61.000	61.000
0398	638.3000	Removing Small Sign Supports	EACH	56.000	56.000
0406	643.0100	Traffic Control (project) 030. 1030-24-74	EACH	1.000	1.000
0412	643.0300	Traffic Control Drums	DAY	4,695.000	4,695.000
0414	643.0420	Traffic Control Barricades Type III	DAY	2,505.000	2,505.000
0416	643.0705	Traffic Control Warning Lights Type A	DAY	5,010.000	5,010.000
0418	643.0715	Traffic Control Warning Lights Type C	DAY	2,350.000	2,350.000
0422	643.0900	Traffic Control Signs	DAY	5,245.000	5,245.000
0424	643.0920	Traffic Control Covering Signs Type II	EACH	15.000	15.000
0426	643.1000	Traffic Control Signs Fixed Message	SF	96.000	96.000
0428	643.1050	Traffic Control Signs PCMS	DAY	180.000	180.000
0430	643.2000	Traffic Control Detour (project) 014. 1030-24-74	EACH	1.000	1.000
0434	643.3000	Traffic Control Detour Signs	DAY	18,525.000	18,525.000
0436	645.0111	Geotextile Type DF Schedule A	SY	600.000	600.000
0440	645.0130	Geotextile Type R	SY	375.000	375.000
0442	645.0135	Geotextile Type SR	SY	2,270.000	2,270.000
0444	645.0220	Geogrid Type SR	SY	49,790.000	49,790.000
0446	646.0106	Pavement Marking Epoxy 4-Inch	LF	19,150.000	19,150.000
0448	646.0805.S	Pavement Marking Outfall	EACH	4.000	4.000
0450	646.2304.S	Pavement Marking Grooved Wet Reflective Epoxy 4-Inch	LF	15,311.000	15,311.000
0452	646.2308.S	Pavement Marking Grooved Wet Reflective Epoxy 8-Inch	LF	1,191.000	1,191.000
0454	647.0166	Pavement Marking Arrows Epoxy Type 2	EACH	8.000	8.000
0456	647.0176	Pavement Marking Arrows Epoxy Type 3	EACH	4.000	4.000
0458	647.0356	Pavement Marking Words Epoxy	EACH	5.000	5.000
0460	647.0456	Pavement Marking Curb Epoxy	LF	40.000	40.000
0462	647.0566	Pavement Marking Stop Line Epoxy 18-Inch	LF	256.000	256.000
0464	647.0606	Pavement Marking Island Nose Epoxy	EACH	2.000	2.000
0466	647.0726	Pavement Marking Diagonal Epoxy 12-Inch	LF	625.000	625.000
0468	648.0100	Locating No-Passing Zones	MI	1.490	1.490
0470	690.0150	Sawing Asphalt	LF	365.000	365.000
0472	690.0250	Sawing Concrete	LF	270.000	270.000
0474	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	280.000	280.000
0476	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	300.000	300.000

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Line	Item	Item Description	Unit	Total	Qty
0478	SPV.0030	Special 001. Fertilizer Type B, Special	CWT	70.000	70.000
0486	SPV.0060	Special 088. Field Facilities Office Space	EACH	0.200	0.200
0488	SPV.0060	Special 089. Traffic Flashing Beacon System Eastbound 58th Rd at West Frontage Rd	EACH	1.000	1.000
0490	SPV.0060	Special 090. Traffic Flashing Beacon System, Westbound 58th Rd at West Frontage Rd	EACH	1.000	1.000
0492	SPV.0060	Special 091. Section Corner Monuments	EACH	1.000	1.000
0500	SPV.0075	Special 031. Pavement Cleanup Project 1030-24-74	HRS	40.000	40.000
0506	SPV.0085	Special 002. Seeding Mixture No. 30, Special	LB	2,304.000	2,304.000
0512	SPV.0090	Special 084. Heavy Duty Silt Fence	LF	1,100.000	1,100.000
0514	SPV.0090	Special 085. Temporary Ditch Check Rock Bags Single Layer	LF	180.000	180.000
0516	SPV.0090	Special 086. Temporary Ditch Check Rock Bags Double Layer	LF	180.000	180.000
0524	SPV.0105	Special 030. Survey Project 1030-24-74	LS	1.000	1.000
0530	SPV.0105	Special 098. Grade Shape & Finish Ditch Proj 1030-24-74 Railroad Ditching	LS	1.000	1.000
0534	SPV.0105	Special 309. Remove Traffic Signals IH 94 West Frontage Road	LS	1.000	1.000
0536	SPV.0195	Special 006. Select Subbase	TON	19,210.000	19,210.000
0538	SPV.0200	Special 002. Manholes 4-FT Diameter Special	VF	200.000	200.000

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CPM PROGRESS SCHEDULE

CATEGORY	STAGE		108.4400 CPM PROGRESS SCHEDULE EACH
1000	ALL	PROJECT 1030-24-74	0.2
	TOTAL (I.D. 1030-24-74)		0.2

CLEARING AND GRUBBING

CATEGORY	ROADWAY	STA	TO	STA	OFFSET	201.0105 CLEARING STA.	201.0120 CLEARING I.D.	201.0205 GRUBBING STA.	201.0220 GRUBBING I.D.
1000	WEST FRONTAGE ROAD								
		2739+00	-	2741+00	LT	2	--	2	--
		2743+31			LT	--	9	--	9
		2743+45			LT	--	10	--	10
		2749+74			RT	--	4	--	4
		2755+47			LT	--	17	--	17
		4752+00	-	4755+00	LT	3	--	3	--
	58TH ROAD								
		35+83			LT	--	10	--	10
		36+19			LT	--	12	--	12
		41+05			LT	--	12	--	12
		42+00	-	44+00	LT & RT	2	--	2	--
		44+48			RT	--	22	--	22
		54+00	-	55+00	LT	1	--	1	--
	SWALE 1								
		100+00	-	101+00	RT	1	--	1	--
		102+00	-	107+00	LT & RT	5	--	5	--
	ACCESS ROAD "B"								
		74B+00	-	75B+00	LT & RT	1	--	1	--
	RAILROAD DITCHING								
	(STH 11 STATIONING)	126+00	-	128+00	LT	2	--	2	--
		128+00	-	129+00	LT	--	30	--	30
		129+00	-	131+00	LT	2	--	2	--
		TOTALS (I.D. 1030-24-74)				19	126	19	126

REMOVING CURB & GUTTER

CATEGORY	ROADWAY	STA.	TO	STA.	LOCATION	204.0150 REMOVING CURB & GUTTER LF
1000	WEST FRONTAGE ROAD					
		4753+90			LT	35
		4755+64			LT	75
	58TH ROAD					
		34+00	-	34+52	RT	55
		35+02	-	36+90	RT	210
		37+08	-	37+44	RT	60
		TOTAL (I.D. 1030-24-74)				435

REMOVING SMALL PIPE CULVERTS

CATEGORY	ROADWAY	STATION	LOCATION	SIZE	LENGTH	203.0100 REMOVING SMALL PIPE CULVERTS EACH
1000	WEST FRONTAGE ROAD					
		2740+79	LT	12" CPCM	27'	1
		2742+54	LT	12" CPCM	28'	1
		2744+46	LT	12" CPCM	28'	1
		2746+91	LT & RT	24" CPCM	61'	1
		2750+19	LT	12" CPCM	33'	1
		2754+20	LT	12" CPCM	35'	1
		2754+38	RT	12" CPCM	43'	1
		2756+92	RT	18" CPCM	39'	1
		4751+25	LT & RT	24" CPCM	82'	1
		4752+00	LT & RT	48" CPCM	61'	1
		4752+00	LT	36" HDPE	82'	1
		4753+85	LT	18" CPCM	41'	1
		4755+50	LT	18" CPCM	103'	1
		4755+96	LT	18" CPCM	31'	1
		4773+75	RT	18" CPCM	53'	1
		4777+25	LT	12" CPCM	43'	1
		4777+50	LT & RT	30" CPCM	68'	1
		4781+70	LT	12" CPCM	56'	1
		4782+00	LT & RT	30" CPCM	66'	1
		4784+29	LT	12" CPCM	33'	1
	58TH ROAD					
		34+47	LT	18" CPCM	28'	1
		35+33	LT	18" CPCM	27'	1
		36+00	LT	18" CPCM	28'	1
		37+33	RT	18" CPCM	31'	1
		37+76	LT	18" CPCM	30'	1
		38+60	LT	18" CPCM	63'	1
		41+00	LT	18" CPCM	40'	1
		41+05	LT	8" CPCM	30'	1
		51+34	RT	18" CPCM	57'	1
		51+75	LT & RT	24" CPCM	72'	1
		53+03	LT	12" CPCM	36'	1
		55+28	LT	18" CPCM	25'	1
		55+70	RT	12" CPCM	43'	1
		57+50	LT & RT	18" CPCM	42'	1
	EXISTING WFR					
		8767+12	LT & RT	24" CPCM	62'	1
	SWALE 1					
		106+56	RT	24" CPCM	20'	1
	ACCESS ROAD "B"					
		74+50	LT	18" CPCM	55'	1
		74+82	LT	12" CPCM	34'	1
		79+50	LT	18" CPCM	58'	1
	TOTAL (I.D. 1030-24-74)					39

REMOVING FENCE

CATEGORY	ROADWAY	STA	TO	STA	LOCATION	204.0170 REMOVING FENCE LF
1000	WEST FRONTAGE ROAD					
		2737+00	-	2740+64	RT	380
		2742+27	-	2742+78	LT	40
	EXISTING WFR					
		8772+10	-	4785+00	RT	1,290
		TOTAL (I.D. 1030-24-74)				1,710

REMOVING DELINEATORS AND MARKERS

CATEGORY	ROADWAY / STATION	LOC	204.0180 REMOVING DELINEATORS AND MARKERS EACH	DESCRIPTION
1000	WEST FRONTAGE ROAD			
	2754+15	RT	1	METAL POST
	2757+80	LT	1	WOOD POST
	58TH ROAD			
	45+80	LT	1	WOOD POST
	48+95	LT	1	WOOD POST
	51+50	LT	1	WOOD POST
	51+75	RT & LT	2	MARKER POSTS
	ACCESS RD B			
	79B+73	15' LT	1	WOOD POST
	TOTAL (I.D. 1030-24-74)		8	

REMOVING DRAIN TILE

CATEGORY	ROADWAY	STA.	TO	STA.	LOCATION	204.9090.S.002 REMOVING DRAIN TILE LF
1000	WEST FRONTAGE ROAD					
		2746+90			LT & RT	55
		4755+62			RT	35
		4757+09			LT & RT	75
		4758+30			LT & RT	120
		4759+81			LT & RT	270
		4781+38	-	4784+45	LT	310
	58TH ROAD					
		40+60			LT & RT	130
		41+88			LT & RT	120
		TOTAL (I.D. 1030-24-74)				1,115

REMOVING PERMANENT BARRICADES

CATEGORY	LOCATION	204.9060.S.006 REMOVING PERMANENT BARRICADES TYPE III EACH
1000		
	WEST FRONTAGE ROAD	4
	DRIVEWAY STA 4763+25 LT	2
	TOTAL	6

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EARTHWORK

CATEGORY	ROADWAY	FROM / TO STATION	205.0100 EXCAVATION COMMON CY		SALVAGED / UNUSABLE PAVEMENT MATERIAL (4)	AVAILABLE MATERIAL (5)	REDUCED EBS IN FILL (6)	EXPANDED EBS BACKFILL (7)	208.1100 SELECT BORROW CY	UNEXPANDED FILL (8)	EXPANDED FILL (9)	MASS ORDINATE +/- (10)	WASTE (11)	ESTIMATED DISPOSAL AREA OUTSIDE 1:1 SLOPE (12)
			CUT (2)	EBS EXCAVATION (3)			Factor 0.80	Factor 1.30			FACTOR 1.20			
1000	WEST FRONTAGE ROAD	2737+00 TO 4762+00 AND 4772+50 TO 4785+00	31,866	601	1,582	30,885	481	801	801	6,942	8,331	22,554	22,554	5,597
	WFR EBS DITCH FILLS	2737+00 TO 4753+00 AND 4776+50 TO 4785+00	0	4,259	0	4,259	3,407	5,537	5,537	0	0	4,259	4,259	0
	WFR EBS EXCESS TOPSOIL	4755+00 TO 4760+50 AND 4774+50 TO 4776+00	0	922	0	922	738	1,199	1,199	0	0	922	922	0
	WFR EXIST PAVE EBS (13)	2747+00 TO 2751+50 AND 4774+50 TO 4780+00	0	471	471	0	0	612	612	0	0	0	0	0
	58TH ROAD	34+00 to 57+72	15,323	2,654	749	17,228	2,123	3,450	3,450	2,924	3,509	13,719	13,719	942
	58TH RD EBS DITCH FILLS	34+00 to 57+72	0	884	0	884	707	1,149	1,149	0	0	884	884	0
	58TH RD EBS EXCESS TOPSOIL	37+50 to 45+00	0	1,096	0	1,096	877	1,425	1,425	0	0	1,096	1,096	0
	58TH RD EXIST PAVE EBS (13)	37+50 to 57+00	0	129	129	0	0	168	168	0	0	0	0	0
	ACCESS R0AD B	78B+48 to 80B+00	3,954	0	155	3,799	0	0	0	419	503	3,296	0	0
	SWALE 1	100+00 to 107+00	739	0	0	739	0	0	0	551	662	78	78	0
	SWALE2	200+00 to 201+95	74	0	0	74	0	0	0	0	0	74	74	0
GRAND TOTALS (I.D. 1030-24-74)			51,956	11,016	3,087	59,886	8,333	14,340	14,340	10,837	13,004	46,882	43,586	6,539
		TOTAL EXCAVATION COMMON		62,972										

1) COMMON EXCAVATION IS THE SUM OF THE CUT AND EBS EXCAVATION COLUMNS. ITEM NUMBER 205.0100

2) SALVAGED / UNUSABLE PAVEMENT MATERIAL IS INCLUDED IN CUT UNLESS EXISTING PAVEMENT IS BELOW SUBGRADE.

3) EBS TO BE BACKFILLED WITH SELECT BORROW. EBS TO BE WASTED OUTSIDE THE 1:1 SLOPES (SEE NOTE 6) OR HAULED OFF-SITE.

4) EXISTING PAVEMENT VOLUME (CY), NOT AVAILABLE FOR FILL. ALL SALVAGED / UNUSABLE PAVEMENT MATERIAL EITHER BELOW OR ABOVE SUBGRADE IS SHOWN WITHIN THE ROADWAY ROW.

5) AVAILABLE MATERIAL = CUT + EBS EXCAVATION - SALVAGED/UNUSABLE PAVEMENT MATERIAL.

6) REDUCED EBS IN FILL - FOR INFORMATION ONLY. EXCAVATED EBS MATERIALS ARE UNUSABLE IN FILLS OUTSIDE THE 1:1 SLOPE BETWEEN IH 94 AND THE FRONTAGE ROAD. EBS MATERIAL CAN BE USED OUTSIDE THE 1:1 SLOPE ON THE NON-IH 94 SIDE OF THE FRONTAGE ROAD.

7) EXPANDED EBS BACKFILL - THIS IS TO BE FILLED WITH SELECT BORROW MATERIAL. EBS BACKFILL FACTOR = 1.3 ITEM NUMBER 208.1100

8) UNEXPANDED FILL - FILL FROM END AREA EARTHWORK VOLUMES

9) EXPANDED FILL FACTOR = 1.20 (EXPANDED FILL DOES NOT CONTAIN EBS)

10) MASS ORDINATE = AVAILABLE MATERIAL - EXPANDED FILL. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE STAGE. MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE STAGE.

11) WASTE = MASS ORDINATE IF POSITIVE (FOR INFORMATION ONLY - BORROW = MASS ORDINATE IF NEGATIVE)

12) THE ESTIMATED AREA OUTSIDE THE 1:1 FILL SLOPES = LOCATION WHERE THE EBS AND CUT MATERIALS CAN BE WASTED (USED AT CONTRACTORS DISCRETION). AREA IS PART OF THE FILL NUMBERS.

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GRANULAR BACKFILL ITEMS

CATEGORY	STATION	209.2100 GRANULAR BACKFILL GRADE 2 CY
1000	WEST FRONTAGE ROAD	
	2737+00 - 4785+00	90
	58TH ROAD	
	34+00 - 57+72	80
	ACCESS ROAD B	
	74+21 - 79+82	50
	UNDISTRIBUTED	110
	TOTAL	330

*GRANULAR BACKFILL USED TO BACKFILL HOLES RESULTING FROM STRUCTURE REMOVAL. SEE GENERAL NOTES FOR ADDITIONAL INFORMATION.

PREPARE FOUNDATION FOR BASE AGGREGATE

CATEGORY	ROADWAY	STA TO STA	211.0500 PREPARE FOUNDATION FOR BASE AGGREGATE STA.
1000	WEST FRONTAGE ROAD		
		4761+50 - 4772+50	11
		TOTAL (I.D. 1030-24-74)	11

NOTE:
1) INCLUDES REMOVAL OF TOPSOIL WITHIN ROADBED

FINISHING ROADWAY 1030-24-74

CATEGORY	STAGE		213.0100.030 FINISHING ROADWAY 1030-24-74 EACH
1000	ALL	PROJECT	1
	TOTAL (I.D. 1030-24-74)		1

OBLITERATING OLD ROAD

CATEGORY	ROADWAY	STA TO STA	214.0100 OBLITERATING OLD ROAD STA.
1000	WEST FRONTAGE ROAD	4756+30 - 4759+98	4
	EXISTING WFR	8764+75 - 8774+50	11
	TOTAL (I.D. 1030-24-74)		15

BASE AGGREGATE ITEMS

CATEGORY	ROADWAY	STA TO STA	LOCATION	*305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	311.0110 BREAKER RUN TON	**SPV.0195.006 SELECT SUBBASE TON	645.0135 GEOTEXTILE TYPE SR SY	**645.0220 GEOGRID TYPE SR SY	COMMENT
1000	WEST FRONTAGE ROAD									
		2737+00 - 2755+25	LT & RT	490	6,690	--	3,845	--	9,105	SOUTH OF STH 11
		2755+25 - 2755+66	LT & RT	20	800	--	465	--	1,095	MATCH AT STH 11
		4751+02 - 4751+66	LT & RT	20	440	--	260	--	605	MATCH AT STH 11
		4751+66 - 4760+50	LT & RT	190	4,200	--	2,445	--	5,790	STH 11 TO 58TH ROAD
		4760+50 - 4785+00	LT & RT	660	9,420	--	5,430	--	12,850	NORTH OF 58TH ROAD
	58TH ROAD									
		34+00 - 38+89	LT & RT	70	1,890	--	1,100	--	2,605	W. MATCH PT TO WFR.
		39+41 - 49+33	LT & RT	270	3,650	--	2,120	--	5,010	WFR TO MAINLINE
		49+33 - 50+55	LT & RT	--	350	--	220	--	515	UNDER IH-94 STRUCTURES
		50+55 - 57+50	LT & RT	190	2,500	--	1,465	--	3,460	MAINLINE TO EFR
		57+50 - 57+72	LT & RT	10	180	--	105	--	245	MATCH AT EFR INTERSECTION
	ACCESS ROAD 'B'									
		74B+21 - 79B+82	LT & RT	90	2,930	--	1,685	--	3,980	W. MATCH PT TO W.F.R.
	TEMPORARY ACCESS			--	405	--	--	--	--	
	RELIEF TRENCHES			--	--	--	70	--	--	
	UNDISTRIBUTED			210	3,350	1,880	--	2,270	4,530	
		TOTALS (I.D. 1030-24-74)		2,220	36,805	1,880	19,210	2,270	49,790	

* ADDITIONAL QUANTITIES LISTED ELSEWHERE
** QUANTITY BASED ON PROJECT LENGTH. USAGE TO BE AUTHORIZED BY ENGINEER OR SOILS ENGINEER. SEE GENERAL NOTES FOR ADDITIONAL INFORMATION.

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DRIVEWAY ITEMS

CATEGORY	ROADWAY	STA	LOCATION	*305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	465.0120 ASPHALTIC SURFACE DRIVEWAY AND FIELD ENTRANCES TON	COMMENTS
1000	WEST FRONTAGE ROAD					
		2740+80	LT	20	13	
		2742+54	LT	30	2	
		2744+46	LT	25	2	
		2750+19	LT	105	20	
		2754+20	LT	75	4	
		2754+38	RT	45	4	
		4753+85	LT	40	40	4" ASPHALT DEPTH
		4755+50	LT	290	304	4" ASPHALT DEPTH
		4763+08	LT	170	8	
		4773+09	LT	80	4	
		4779+36	LT	20	3	
		4781+70	LT	20	13	
		4784+29	LT	10	8	
	58TH ROAD					
		34+47	LT	20	13	ASPHALT APRON, CONCRETE D/W
		34+78	RT	30	4	ASPHALT APRON, GRAVEL D/W
		35+33	LT	15	2	
		36+00	LT	25	2	
		37+76	LT	15	12	
		45+44	RT	10	3	
		53+03	LT	25	13	
		53+86	RT	20	10	
		55+00	RT	25	3	
		55+00	LT	35	4	
		56+89	RT	25	3	
	ACCCESS ROAD 'B'					
		74+24	RT	30	21	
		TOTALS (I.D. 1030-24-74)		1,205	515	

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

ASPHALTIC FLUMES

CATEGORY	ROADWAY	STA.	LOCATION	465.0315 ASPHALTIC FLUMES SY
1000	WEST FRONTAGE ROAD			
		4755+40	LT	8
		4756+15	LT	8
		4756+75	LT	8
		4759+54	LT	8
	58TH ROAD			
		38+20	RT	9
		38+74	LT	8
		40+00	RT	8
		40+16	LT	8
		50+60	LT	8
		50+60	RT	8
	ACCESS ROAD "B"			
		74B+36	LT	9
		76B+50	LT	9
		79B+15	LT	9
		79B+15	RT	9
		TOTAL (I.D. 1030-24-74)		117

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ASPHALTIC PAVEMENT ITEMS

CATEGORY	ROADWAY	STA	TO	STA	LOCATION	440.4410 INCENTIVE IRI RIDE DOL	455.0605 TACK COAT GAL	460.5223 HMA PAVEMENT 3 LT 58-28 S TON	460.5224 HMA PAVEMENT 4 LT 58-28 S TON	460.2000 INCENTIVE DENSITY HMA PAVEMENT DOL	495.1000.S COLD PATCH TON	COMMENT
1000	WEST FRONTAGE ROAD											
		2737+00	-	2755+25	LT & RT	1,383	186	1,362	943	1,494	--	SOUTH OF STH 11
		2755+25	-	2755+66	LT & RT	31	29	211	146	231	--	MATCH AT STH 11
		4751+02	-	4751+66	LT & RT	49	140	105	73	116	--	MATCH AT STH 11
		4751+66	-	4760+50	LT & RT	670	125	926	641	1,014	--	STH 11 TO 58TH ROAD
		4760+50	-	4785+00	LT & RT	1,857	260	1,943	1,350	2,131	--	NORTH OF 58TH ROAD
	58TH ROAD											
		34+00	-	38+89	LT & RT	--	53	390	270	428	--	W. MATCH PT TO WFR.
		39+41	-	49+33	LT & RT	--	100	742	514	813	--	WFR TO MAINLINE
		49+33	-	50+55	LT & RT	--	--	58	40	64	--	MATCH UNDER EXIST BRIDGE
		50+55	-	57+72	LT & RT	--	68	502	348	550	--	MAINLINE TO EFR
	ACCESS ROAD 'B'											
		74B+21	-	79B+82	LT & RT	--	89	656	455	719	--	S. MATCH PT TO 58TH ROAD
	UNDISTRIBUTED											
					PROJECT	--	--	--	--	--	25	
		TOTALS (I.D. 1030-24-74)				3,990	1,050	6,895	4,780	7,560	25	

CONCRETE ITEMS

CATEGORY	ROADWAY	STA	TO	STA	LOCATION	465.0310 ASPHALTIC CURB LF	601.0411 CONCRETE CURB & GUTTER 30-INCH TYPE D LF	601.0553 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D LF	601.0557 CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D LF	604.0400 SLOPE PAVING CONCRETE SY	620.0300 CONCRETE MEDIAN SLOPED NOSE SF	602.0410 CONCRETE SIDEWALK 5-INCH SF	COMMENTS
1000	WEST FRONTAGE ROAD												
		4751+82	-	4753+83	LT	--	28	242	--	--	--	--	INCLUDES DRIVEWAY
		4751+89	-	4752+39	LT	--	--	75	--	--	170	220	MEDIAN ISLAND
		4753+90	-	4754+28	LT	--	45	112	--	--	--	--	INCLUDES DRIVEWAY
		4754+28	-	4755+10	LT	--	--	85	--	--	--	--	BETWEEN DRIVEWAYS
		4755+10	-	4755+45	LT	--	115	217	--	--	--	--	DRIVEWAY
		4753+90	-	4754+28	LT	--	142	69	--	--	--	--	DRIVEWAY
	58TH ROAD												
		34+00	-	38+83	RT	--	--	520	--	--	--	--	INCLUDES SW RADII
		38+36	-	38+96	LT	--	--	85	--	--	--	--	NW RADII
		39+36	-	39+96	RT	--	--	91	--	--	--	--	SE RADII
		39+51	-	40+10	LT	--	--	104	--	--	--	--	NE RADII
		49+33	-	50+58	LT & RT	250	--	--	--	100	--	--	ADJACENT TO BRIDGE PIERS
	ACCESS ROAD 'B'												
		74B+21	-	78B+55	LT	--	--	--	487	--	--	--	
		78B+55	-	79B+82	LT	--	--	--	157	--	--	--	INCLUDES SW RADII
		74B+21	-	75B+20	RT	--	--	--	146	--	--	--	
		78B+00	-	79B+78	RT	--	--	--	200	--	--	--	INCLUDES SE RADII
	TOTALS (I.D. 1030-24-74)					250	330	1,600	990	100	170	220	

EROSION CONTROL ITEMS

CATEGORY	ROADWAY	606.0100 RIPRAP LIGHT CY	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.1905 MOBILIZATION EROSION CONTROL EACH	628.1910 MOBILIZATION EMERGENCY EROSION CONTROL EACH	628.2004 EROSION MAT CLASS I TYPE B SY	628.2008 EROSION MAT URBAN CLASS I TYPE B SY	628.7005 INLET PROTECTION TYPE A EACH	628.7010 INLET PROTECTION TYPE B EACH	628.7015 INLET PROTECTION TYPE C EACH	628.7020 INLET PROTECTION TYPE D EACH	628.7504 TEMPORARY DITCH CHECK LF	628.7555 CULVERT PIPE CHECKS EACH	628.7570 ROCK BAGS EACH	645.0130 GEOTEXTILE TYPE R SY	SPV.0090.084 HEAVY DUTY SILT FENCE LF	SPV.0090.085 TEMPORARY DITCH CHECK ROCK BAGS SINGLE LAYER LF	SPV.0090.086 TEMPORARY DITCH CHECK ROCK BAGS DOUBLE LAYER LF
1000	WEST FRONTAGE ROAD	30	540	540	1	1	13,480	6,800	9	--	3	1	180	190	51	90	410	--	--
	58TH ROAD	45	875	875	1	1	3,130	--	--	--	--	--	180	100	34	135	--	--	--
	ACCESS ROAD "B"	15	140	140	1	1	1,600	--	--	--	--	--	130	30	--	45	--	--	--
	SWALE NO. 1	5	--	--	1	1	2,640	--	--	--	--	--	--	--	34	15	325	--	--
	SWALE NO. 2	--	--	--	1	1	215	--	--	--	--	--	20	10	--	--	55	--	--
	RAILROAD DITCH	--	500	500	1	1	1,925	--	--	--	--	--	40	10	--	--	90	--	--
	UNDISTRIBUTED	30	520	520	2	2	5,750	1,700	6	5	2	1	140	85	46	90	220	180	180
	TOTALS (I.D. 1030-24-74)	125	2,575	2,575	8	8	28,740	8,500	15	5	5	2	690	425	165	375	1,100	180	180

DRIVEWAY CULVERT ITEMS

CATEGORY	ROADWAY	STATION	OFFSET	SLOPE	ELEVATION	520.3312 CULVERT PIPE CLASS III-A 12-INCH LF	520.3318 CULVERT PIPE CLASS III-A 18-INCH LF	521.1012 APRON ENDWALLS FOR CULVERT PIPE STEEL 12-INCH EACH	521.1618 APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS STEEL 10 TO 1 18-INCH EACH	STEEL PIPE THICKNESS INCHES
1000	58TH ROAD									
		34+50	26.6' LT	2.22%	773.80	45	--	2	--	0.064
		35+35	29.4' LT	0.44%	772.60	45	--	2	--	0.064
		36+00	28.0' LT	1.50%	771.88	50	--	2	--	0.064
		37+75	43.7' LT	4.20%	767.55	--	50	--	2	0.064
		53+00	32.7' LT	0.33%	761.70	--	60	--	2	0.064
		54+00	36.0' RT	0.33%	761.50	--	60	--	2	0.064
		55+00	36.9' RT	0.50%	760.98	--	40	--	2	0.064
		55+00	38.8' LT	0.50%	760.72	--	50	--	2	0.064
		57+00	35.8' RT	0.50%	760.25	--	40	--	2	0.064
	WEST FRONTAGE ROAD									
		2740+80	35.1' LT	0.77%	745.25	--	65	--	2	0.064
		2742+50	36.4' LT	0.79%	746.63	--	70	--	2	0.064
		2744+50	45.5' LT	0.69%	747.98	--	65	--	2	0.064
		2750+15	40.4' LT	1.50%	752.90	--	80	--	2	0.064
		2754+30	45.5' LT	0.80%	759.20	--	75	--	2	0.064
		2754+40	40.0' RT	0.53%	757.70	--	75	--	2	0.064
		4784+25	34.6' LT	2.00%	766.60	--	60	--	2	0.064
TOTALS (I.D. 1030-24-74)						140	790	6	26	

NOTE

1) PIPE OFFSETS AND ELEVATIONS ARE TO THE CENTERLINE AND INVERT OF PIPE.

2) PIPE LENGTH IS FROM END OF PIPE TO END OF PIPE AND DOES NOT INCLUDE LENGTH OF APRON ENDWALL.

CLEANING CULVERT PIPES

CATEGORY	ROADWAY	LOCATION	520.8700 CLEARING CULVERT PIPES EACH
1000	ACCESS ROAD "B"	IH 94 STA 757+15	1
	TOTAL (I.D. 1030-24-74)		1

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CROSS CULVERT ITEMS

CATEGORY	ROADWAY	STATION	INLET END OFFSET	INLET END ELEV	INLET END STATION	DISCHARGE END OFFSET	DISCHARGE END ELEV	DISCHARGE END STATION	SLOPE	522.0124 CULVERT PIPE REINFORCED CONCRETE CLASS III 24-INCH LF	522.0130 CULVERT PIPE REINFORCED CONCRETE CLASS III 30-INCH LF	522.0312 CULVERT PIPE REINFORCED CONCRETE CLASS IV 12-INCH LF	522.0318 CULVERT PIPE REINFORCED CONCRETE CLASS IV 18-INCH LF	522.0324 CULVERT PIPE REINFORCED CONCRETE CLASS IV 24-INCH LF	523.0419 CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-IV 19 X 30-INCH LF	523.0424 CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-IV 24 X 38-INCH LF	522.1012 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 12-INCH EACH	522.1018 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 18-INCH EACH	*522.1024 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH EACH	*522.1030 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 30-INCH EACH	523.0519 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 19 x 30-INCH EACH	523.0524 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 24 x 38-INCH EACH	*633.5200 MARKERS CULVERT END EACH	*520.8000 CONCRETE COLLARS FOR PIPE EACH
1000	58TH ROAD																								
		41+41	19.3' LT	763.44	41+41	30.5' RT	763.35	41+41	0.18%	--	--	50	--	--	--	--	2	--	--	--	--	--	2	--
		41+45	19.3' LT	764.39	41+45	30.5' RT	764.30	41+45	0.18%	--	--	--	--	--	50	--	--	--	--	--	2	--	2	--
		41+50	19.3' LT	764.39	41+50	30.5' RT	764.30	41+50	0.18%	--	--	--	--	--	50	--	--	--	--	--	2	--	2	--
		41+55	19.3' LT	764.39	41+55	30.5' RT	764.30	41+55	0.18%	--	--	--	--	--	50	--	--	--	--	--	2	--	2	--
		48+25	33.3' LT	762.85	48+25	21.3' RT	762.17	48+25	1.24%	--	--	--	--	--	55	--	--	--	--	--	2	--	2	--
		57+50	25.2' LT	759.21	57+50	23.5' RT	759.40	57+50	0.39%	49	--	--	--	--	--	--	--	--	2	--	--	--	2	--
	ACCESS ROAD B																								
		76B+00	33.5' RT	761.71	76B+00	37.5' LT	761.53	76B+00	0.25%	--	--	--	72	--	--	--		2	--	--	--	--	2	--
	WEST FRONTAGE ROAD																								
		2746+89	29.5' LT	749.48	2746+88	31.9' RT	748.87	2746+93	0.98%	--	--	--	--	--	--	62	--	--	--	--	--	2	2	--
		2757+85	50.8' LT	759.46	2757+92	44.8' LT	759.44	2757+85	0.42%	--	--	--	--	6	--	--	--	--	2	--	--	--	2	1
		2757+75	27.6' RT	759.14	2757+74	55.3' RT	759.03	2757+63	0.41%	--	--	--	--	28	--	--	--	--	2	--	--	--	2	1
		4754+25	51.1' LT	763.48	4754+25	23.5' RT	763.13	4754+25	0.47%	75	--	--	--	--	--	--	--	--	2	--	--	--	2	--
		4754+33	51.1' LT	763.48	4754+33	23.5' RT	763.13	4754+33	0.47%	75	--	--	--	--	--	--	--	--	2	--	--	--	2	--
		4777+50	29.7' LT	765.97	4777+50	40.8' RT	765.79	4777+50	0.25%	--	71	--	--	--	--	--	--	--	--	2	--	--	2	--
TOTALS (I.D. 1030-24-74)										199	71	50	72	34	205	62	2	2	10	2	8	2	26	2

NOTES

1) STATION OFFSETS SHOWN ARE TO THE CENTER OF INLET STRUCTURES OR END OF PIPE (NOT THE APRON END OF ENDWALLS).
2) JOINT TIES FOR CONCRETE PIPE SHALL BE PROVIDED AT ALL CONCRETE APRON ENDWALLS. PIPE JOINTS SHALL BE TIED FOR THE LAST THREE JOINTS AT PIPE ENDS. THE COST OF THE JOINT TIES SHALL BE INCIDENTAL TO THE COST OF THE PIPE.
3) GRANULAR BACKFILL IS INCIDENTAL TO THE COST OF THE PIPE
4) PIPE LENGTH IS FROM END OF PIPE TO END OF PIPE AND DOES NOT INCLUDE LENGTH OF APRON ENDWALL.

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

STORM SEWER ITEMS

CATEGORY	STRUCTURE NUMBER	STATION	OFFSET FT		611.2005 MANHOLES 5-FT DIA EACH	611.2006 MANHOLES 6-FT DIA EACH	611.3230 INLETS 2X3 EACH	611.0535 MANHOLE COVERS TYPE JS EACH	611.0627 INLET COVERS TYPE HM EACH	RIM OR FLANGE ELEV	STR DEPTH FT	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE
1000	13 WEST FRONTAGE ROAD															
	401A	4751+18	53.91	LT	--	--	--	--	--	--	--	401A	401	760.07	759.79	3.11%
	400	4751+27	77.88	LT	--	--	--	--	--	--	--	400	401	761.08	759.79	5.38%
	401	4751+27	53.80	LT	--	1	--	1	--	764.35	3.48	401	401B	759.79	759.70	0.75%
	401B	4751+26	41.67	LT	--	--	--	--	--	--	--	401B	EXISTING	759.70	--	--
	402A	4751+27	37.65	RT	--	--	--	--	--	--	--	402A	402	759.11	758.98	0.48%
	402	4751+28	58.04	RT	--	--	--	--	--	--	--	402	OUTFALL	758.98	--	--
	403	4752+00	72.04	LT	--	--	--	--	--	--	--	403	404	761.17	760.66	1.76%
	404	4752+00	43.20	LT	1	--	--	--	1	765.40	3.91	404	405	760.66	760.12	1.74%
	405	4752+00	12.00	LT	1	--	--	--	1	765.18	4.23	405	406	760.12	759.16	1.71%
	406	4752+00	36.95	RT	--	--	--	--	--	--	--	406	OUTFALL	759.16	-	--
	409	4759+78	70.42	LT	--	--	--	--	--	--	--	409	410	764.48	764.40	0.33%
	410	4760+00	61.00	LT	--	1	--	1	--	769.48	4.00	410	411	764.40	764.00	0.36%
	411	4760+00	50.05	RT	--	--	--	--	--	--	--	411	OUTFALL	764.00	--	--
	412	4780+30	44.58	LT	--	--	--	--	--	--	--	412	415	765.00	764.43	0.81%
	413	4782+00	54.46	LT	--	--	--	--	--	--	--	413	415	764.50	764.45	0.50%
	414	4782+25	44.53	LT	--	--	--	--	--	--	--	414	415	764.51	764.25	1.04%
	415	4782+00	44.50	LT	--	1		1		768.80	3.71	415	416	764.01	763.37	0.00%
	416	4782+00	42.54	RT	--	--	--	--	--	--	--	416	OUTFALL	763.80	--	--
	58TH ROAD															
	407	38+00	20.00	RT	--	--	1	--	1	770.36	--	407	407A	766.25	766.02	1.05%
	407A	38+00	41.94	RT	--	--	--	--	--	--	--	407A	OUTFALL	766.02	--	--
	408	38+50	60.05	LT	--	--	--	--	--			408	401	764.75	764.40	0.34%
					2	3	1	3	3							

NOTES

1) APRON ENDWALLS: STATIONS AND OFFSETS ARE TO THE APRON END OF ENDWALLS.
2) PIPE LENGTHS ARE MEASURED TO THE CENTER OF STRUCTURES OR TO THE APRON END OF ENDWALLS (INCLUDES LENGTH OF AEW).
3) MANHOLES AND INLETS: RIM ELEVATIONS, STATIONS AND OFFSETS ARE GIVEN AT THE CENTER OF CASTING
4) STRUCTURE DEPTH = RIM ELEVATION - INVERT - CASTING HEIGHT ADJUSTMENT
   CASTING HEIGHT = 0.75 FT FOR J COVERS; 0.5 FT FOR TYPE HM AND S COVERS; 0 FT FOR TYPE MS COVERS
   ADJUSTMENT (RINGS) = 0.33 FT FOR J, HM AND S COVERS; 0 FT FOR TYPE MS COVERS
5) FLAT TOP SLAB WITH CENTERED 24" X 36" RECTANGULAR OPENING REQUIRED ON MANHOLES WITH TYPE HM INLET COVERS

STORM SEWER ITEMS

CATEGORY	STRUCTURE NUMBER	STATION	OFFSET FT		608.0324 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 24-INCH LF	608.0330 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 30-INCH LF	610.0129 STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-III 29x45-INCH LF	522.1024 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH EACH	522.1030 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 30-INCH EACH	523.0529 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 29X45-INCH EACH	520.8000 CONCRETE COLLARS FOR PIPE EACH	633.5200 MARKERS CULVERT END EACH	NOTES
1000	13 WEST FRONTAGE ROAD												
	401A	4751+18	53.91	LT	9	--	--	--	--	--	1	--	EXTEND EXISTING SS TO MH
	400	4751+27	77.88	LT	24	--	--	1	--	--	--	1	
	401	4751+27	53.80	LT	12	--	--	--	--	--	--	--	
	401B	4751+26	41.67	LT	--	--	--	--	--	--	1	--	CONNECT TO EXISTING CULVERT
	402A	4751+27	37.65	RT	27	--	--	--	--	--	1	--	CONNECT TO EXISTING CULVERT
	402	4751+28	58.04	RT	--	--	--	1	--	--	--	1	
	403	4752+00	72.04	LT	--	29	--	--	1	--	--	1	
	404	4752+00	43.20	LT	--	31	--	--	--	--	--	--	
	405	4752+00	12.00	LT	--	56	--	--	--	--	--	--	
	406	4752+00	36.95	RT	--	--	--	--	1	--	--	1	
	409	4759+78	70.42	LT	--	24	--	--	1	--	--	1	
	410	4760+00	61.00	LT	--	111	--	--	--	--	--	--	
	411	4760+00	50.05	RT	--	--	--	--	1	--	--	1	
	412	4780+30	44.58	LT	70	--	--	1	--	--	--	1	
	413	4782+00	54.46	LT	10	--	--	--	--	--	1	--	CONNECT TO EXISTING 24" HDPE
	414	4782+25	44.53	LT	25	--	--	1	--	--	--	1	
	415	4782+00	44.50	LT	--	--	87	--	--	--	--	--	
	416	4782+00	42.54	RT	--	--	--	--	--	1	--	1	
	58TH ROAD												
	407	38+00	20.00	RT	22	--	--	--	--	--	--	--	
	407A	38+00	41.94	RT	--	--	--	1	--	--	--	1	
	408	38+50	60.05	LT	--	103	--	--	1	--	--	1	
					199	354	87	5	5	1	4	11	

NOTES

1) APRON ENDWALLS: STATIONS AND OFFSETS ARE TO THE APRON END OF ENDWALLS.
2) PIPE LENGTHS ARE MEASURED TO THE CENTER OF STRUCTURES OR TO THE APRON END OF ENDWALLS (INCLUDES LENGTH OF AEW).
3) MANHOLES AND INLETS: RIM ELEVATIONS, STATIONS AND OFFSETS ARE GIVEN AT THE CENTER OF CASTING
4) STRUCTURE DEPTH = RIM ELEVATION - INVERT - CASTING HEIGHT ADJUSTMENT
   CASTING HEIGHT = 0.75 FT FOR J COVERS; 0.5 FT FOR TYPE HM AND S COVERS; 0 FT FOR TYPE MS COVERS
   ADJUSTMENT (RINGS) = 0.33 FT FOR J, HM AND S COVERS; 0 FT FOR TYPE MS COVERS
5) FLAT TOP SLAB WITH CENTERED 24" X 36" RECTANGULAR OPENING REQUIRED ON MANHOLES WITH TYPE HM INLET COVERS

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PIPE UNDERDRAIN ITEMS

CATEGORY	ROADWAY	STATION		STATION	OFFSET	612.0106* PIPE UNDERDRAIN 6-INCH LF	612.0206 PIPE UNDERDRAIN 6-INCH UNPERFORATED LF	612.0806 APRON ENDWALLS FOR UNDERDRAIN REINFORCED CONCRETE 6-INCH EACH	645.0111 GEOTEXTILE TYPE DF SCHEDULE A SY	646.0805.S PAVEMENT MARKING OUTFALL EACH	COMMENTS
1000	ACCESS ROAD "B"										
		74B+20	-	74B+50	LT /RT	110	--	--	65	--	
		74B+31			LT	--	10	1	--	1	
		74B+38			LT	--	10	1	--	1	
		74B+38	-	75B+25	LT	110	--	--	65	--	
		76B+00	-	78B+55	RT	255	--	--	145	--	
		76B+00	-	78B+55	LT	255	--	--	145	--	
		78B+55			RT	--	10	1	--	1	
		78B+55			LT	--	10	1	--	1	
	58TH ROAD										
		35+00	-	38+15	LT	315	--	--	180	--	CONNECT TO INLET 407
		TOTALS (I.D. 1030-24-77)				1,045	40	4	600	4	

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

DRAIN TILE

CATEGORY	LOCATION	SPV.0200.002 MANHOLES 4-FT DIAMETER SPECIAL VF	*611.0535 MANHOLE COVERS TYPE J-SPECIAL EACH	*612.0106 PIPE UNDERDRAIN 6-INCH LF	612.0108 PIPE UNDERDRAIN 8-INCH LF	612.0110 PIPE UNDERDRAIN 10-INCH LF	612.0112 PIPE UNDERDRAIN 12-INCH LF	608.0512 STORM SEWER PIPE REINFORCED CONCRETE CLASS V 12-INCH LF	612.0700 DRAIN TILE EXPLORATION LF
1000	UNDISTRIBUTED	200	32	300	300	300	300	1,900	1,600
TOTAL (I.D. 1030-24-74)		200	32	300	300	300	300	1,900	1,600

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

MOBILIZATION

CATEGORY	STAGE		619.1000 MOBILIZATION EACH
1000	ALL	WEST FRONTAGE ROAD	0.2
TOTAL (I.D. 1030-24-74)			0.2

FENCING ITEMS

CATEGORY	STATION	LOCATION	616.0100.001 FENCE WOVEN WIRE 4-FOOT LF	616.0700.S FENCE SAFETY LF
1000	WEST FRONTAGE ROAD			
	2737+00 - 2740+60	RT	360	
	4773+00 - 4785+00	RT	1,200	
	UNDISTRIBUTED		--	400
	TOTAL		1,560	400

MAINTENANCE AND REPAIR OF HAUL ROADS (1030-24-74)

CATEGORY	STAGE		618.0100.009 MAINTENANCE AND REPAIR OF HAUL ROADS (1030-24-74) EACH
1000	ALL		
		WEST FRONTAGE ROAD	1
	TOTAL (I.D. 1030-24-74)		1

3

DUST CONTROL SURFACE TREATMENT

CATEGORY	ROADWAY	623.0200 DUST CONTROL SURFACE TREATMENT SY
1000	WEST FRONTAGE ROAD	17,900
	58TH ROAD	17,500
	ACCESS ROAD "B"	7,100
	TOTAL (I.D. 1030-24-74)	42,500

SECTION CORNER MONUMENTS

CATEGORY	ROADWAY	STA.	DESCRIPTION	SPV.0060.091 SECTION CORNER MONUMENTS EACH
1000	58TH ROAD			
		50+64	T3N R22E SEC 30 NW CORNER	1
		TOTALS (I.D. 1030-24-74)		1

3

WATER

CATEGORY	ROADWAY	624.0100 WATER MGAL
1000	WEST FRONTAGE ROAD	560
	58TH ROAD	210
	ACCESS ROAD "B"	80
	TOTAL (I.D. 1030-24-74)	850

RESTORATION ITEMS

CATEGORY	ROADWAY	625.0500 SALVAGED TOPSOIL SY	627.0200 MULCHING SY	628.6510 SOIL STABILIZER TYPE B ACRE	SPV.0030.001 FERTILIZER TYPE B SPECIAL CWT	SPV.0085.002 SEEDING MIX NO. 30 SPECIAL LB	630.0140 SEEDING MIX NO. 40 LB	630.0200 SEEDING TEMPORARY LB
1000	WEST FRONTAGE/58TH RD	72,185	34,945	--	45	1,521	286	1,950
	ACCESS ROAD "B"	6,670	5,070	--	4	180	--	180
	EXISTING WFR	6,525	6,525	--	4	176	--	176
	UNDISTRIBUTED	21,345	21,345	5.5	16	427	29	474
	TOTALS (I.D. 1030-24-74)	106,725	67,885	5.5	70	2,304	315	2,780

TRACKING PADS

CATEGORY	ROADWAY	LOCATION	628.7560 TRACKING PADS EACH
1000	WEST FRONTAGE ROAD	N. OF STH 11	3
		S. OF STH 11	2
		58TH ROAD	3
		ACCESS RD B	1
		RR DITCH ACCESS	1
	UNDISTRIBUTED		2
	TOTALS (I.D. 1030-24-74)		12

DELINEATORS

CATEGORY	ROADWAY	LOCATION	STA	TO	STA	633.0100 DELINEATOR POSTS STEEL EACH	633.0500 DELINEATOR REFLECTORS EACH
1000	WEST FRONTAGE ROAD						
		RT - NORTHBOUND	2737+50	-	2743+75	11	22
		LT - SOUTHBOUND	2752+75	-	2757+50	9	18
		LT - SOUTHBOUND	4751+90	-	4754+75	5	10
		LT - SOUTHBOUND	4761+25	-	4765+00	6	12
		RT - NORTHBOUND	4771+00	-	4778+25	12	24
		TOTALS (I.D. 1030-24-74)				43	86

PERMANENT SIGNING SUMMARY

CATEGORY	SIGN NO.	CODE NO.	SIGN MESSAGE	COMMENTS	SIZE INCH	x	SIZE INCH	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFECTIVE F SF	637.2220 SIGNS TYPE II REFECTIVE SH SF	STATION	LOCATION	SAME POST AS SIGN NO.	634.0612 POSTS WOOD 4x6-INCH x12-FT EACH	634.0614 POSTS WOOD 4x6-INCH x14-FT EACH	634.0616 POSTS WOOD 4x6-INCH x16-FT EACH	634.0618 POSTS WOOD 4x6-INCH x18-FT EACH	638.2102 MOVING SIGNS TYPE II EACH
1000	1P02	W1-6 (2)	NIGHT ARROW (SINGLE)	--	48	x	24	--	8.00	--	2739+60	RT	--	--	1	--	--	--
	1P03	W1-6 (2)	NIGHT ARROW (SINGLE)	--	48	x	24	--	8.00	--	2741+28	RT	--	--	1	--	--	--
	1P04	W1-2R (3)	RIGHT CURVE	--	36	x	36	--	9.00	--	2745+00	LT	--	--	1	--	--	--
	2P01	J1-1 (2)	JUNCTION	--	24	x	39	6.50	--	--	2749+60	RT	--	--	--	1	--	--
		M2-1 (2)	JCT	--	21	x	15	--	--	--	--	--	--	--	--	--	--	--
		M1-6 (2)	STATE ROUTE MARKER	STH 11	24	x	24	--	--	--	--	--	--	--	--	--	--	--
	2P02	W3-1 (2)	STOP AHEAD	--	36	x	36	--	9.00	--	2751+50	RT	--	--	--	1	--	--
	2P03	W1-2R (3)	RIGHT CURVE	--	36	x	36	--	9.00	--	2752+50	RT	--	--	--	1	--	--
	2P04	R3-8 (2)	LANE DESIGNATION LTS RO	--	36	x	30	7.50	--	--	2753+50	RT	--	--	1	--	--	--
	2P05	R2-1 (2)	SPEED LIMIT	45 MPH	24	x	30	5.00	--	--	2755+00	LT	--	--	1	--	--	--
	*2M04	EXISTING	ADOPT A HIGHWAY	MOVE	--	x	--	--	--	--	2755+60	LT	--	--	1	--	--	1
	2P06	W14-3 (2)	NO PASSING ZONE	--	48	x	36	--	6.00	--	2755+65	RT	--	--	1	--	--	--
	2P07	W6-3 (2)	TWO WAY TRAFFIC ARROWS	--	36	x	36	--	9.00	--	2756+00	LT	--	--	--	1	--	--
	2P08	W1-4L (3)	LEFT REVERSE CURVE	--	36	x	36	--	9.00	--	2757+00	LT	--	--	--	1	--	--
	2P09	R1-1 (3)	STOP	--	36	x	36	7.46	--	--	2757+50	RT	--	--	--	1	--	--
	2P10	W4-4C (2)	TRAFFIC ON 11 DOES NOT STOP	--	36	x	15	--	3.75	--	2757+50	RT	2P09	--	--	--	--	--
	2P11	J2-4 (2)	ROUTE TURN ASSEMBLY	--	96	x	57	38.00	--	--	2757+50	RT	--	--	--	--	2	--
		M3-4 (2)	WEST	--	24	x	12	--	--	--	--	--	--	--	--	--	--	--
		M1-6 (2)	STATE ROUTE MARKER	STH 11	24	x	24	--	--	--	--	--	--	--	--	--	--	--
		M6-1 (2)	DIRECTION ARROW	LEFT	21	x	21	--	--	--	--	--	--	--	--	--	--	--
		M3-2 (2)	EAST	--	24	x	12	--	--	--	--	--	--	--	--	--	--	--
		M1-6 (2)	STATE ROUTE MARKER	STH 11	24	x	24	--	--	--	--	--	--	--	--	--	--	--
		M6-1 (2)	DIRECTION ARROW	RIGHT	21	x	21	--	--	--	--	--	--	--	--	--	--	--
		M4-5 (2)	TO	--	24	x	12	--	--	--	--	--	--	--	--	--	--	--
		M1-1 (2)	INTERSTATE SHIELD	I-41	24	x	24	--	--	--	--	--	--	--	--	--	--	--
		M6-1 (2)	DIRECTION ARROW	RIGHT	21	x	21	--	--	--	--	--	--	--	--	--	--	--
		M1-1 (2)	INTERSTATE SHIELD	I-94	24	x	24	--	--	--	--	--	--	--	--	--	--	--
		M6-1 (2)	DIRECTION ARROW	RIGHT	21	x	21	--	--	--	--	--	--	--	--	--	--	--
	3P01	R5-1	DO NOT ENTER	--	30	x	30	6.25	--	--	4751+25	LT	3P03	--	--	--	--	--
	3P02	J2-4 (2)	ROUTE TURN ASSEMBLY	--	96	x	57	38.00	--	--	4751+25	LT	--	--	--	--	2	--
		M3-2 (2)	EAST	--	24	x	12	--	--	--	--	--	--	--	--	--	--	--
		M1-6 (2)	STATE ROUTE MARKER	STH 11	24	x	24	--	--	--	--	--	--	--	--	--	--	--
		M6-1 (2)	DIRECTION ARROW	LEFT	21	x	21	--	--	--	--	--	--	--	--	--	--	--
		M3-4 (2)	WEST	--	24	x	12	--	--	--	--	--	--	--	--	--	--	--
		M1-6 (2)	STATE ROUTE MARKER	STH 11	24	x	24	--	--	--	--	--	--	--	--	--	--	--
		M6-1 (2)	DIRECTION ARROW	RIGHT	21	x	21	--	--	--	--	--	--	--	--	--	--	--
		M4-5 (2)	TO	--	24	x	12	--	--	--	--	--	--	--	--	--	--	--
		M1-1 (2)	INTERSTATE SHIELD	I-41	24	x	24	--	--	--	--	--	--	--	--	--	--	--
		M6-1 (2)	DIRECTION ARROW	LEFT	21	x	21	--	--	--	--	--	--	--	--	--	--	--
		M1-1 (2)	INTERSTATE SHIELD	I-94	24	x	24	--	--	--	--	--	--	--	--	--	--	--
		M6-1 (2)	DIRECTION ARROW	LEFT	21	x	21	--	--	--	--	--	--	--	--	--	--	--
	3P03	R1-1 (3)	STOP	--	36	x	36	7.46	--	--	4751+25	LT	--	--	--	1	--	--
	3P04	W4-4C (2)	TRAFFIC ON 11 DOES NOT STOP	--	36	x	15	--	3.75	--	4751+25	LT	3P03	--	--	--	--	--
	3P05	W1-2R (3)	RIGHT CURVE	--	36	x	36	--	9.00	--	4752+17	RT	--	--	1	--	--	--
	3P06	R3-8 (2)	LANE DESIGNATION LTS RO	--	36	x	30	7.50	--	--	4753+50	LT	--	--	--	1	--	--

(CONTINUED ON NEXT SHEET)

PERMANENT SIGNING SUMMARY

(CONTINUED FROM PREVIOUS SHEET)

CATEGORY	SIGN NO.	CODE NO.	SIGN MESSAGE	COMMENTS	SIZE INCH	x	INCH	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFECTIVE F SF	637.2220 SIGNS TYPE II REFECTIVE SH SF	STATION	LOCATION	SAME POST AS SIGN NO.	634.0612 POSTS WOOD 4x6-INCH x 12-FT EACH	634.0614 POSTS WOOD 4x6-INCH x 14-FT EACH	634.0616 POSTS WOOD 4x6-INCH x 16-FT EACH	634.0618 POSTS WOOD 4x6-INCH x 18-FT EACH	638.2102 MOVING SIGNS TYPE II EACH
1000	3P08	R7-1D (2)	NO PARKING ANYTIME (DOUBLE ARROW)	--	18	x	24	3.00	--	--	4755+13	RT	--	--	1	--	--	--
	3P09	R3-8A (2)	LANE DESIGNATION LO RTS	--	36	x	30	7.50	--	--	4756+80	RT	--	--	1	--	--	--
	3P10	W3-1 (2)	STOP AHEAD	--	36	x	36	--	9.00	--	4757+00	LT	--	--	--	1	--	--
	3P11	J1-1 (2)	JUNCTION	--	24	x	39	6.50	--	--	4757+85	LT	--	--	--	1	--	--
		M2-1 (2)	JCT	--	21	x	15	--	--	--	--	--	--	--	--	--	--	--
		M1-6 (2)	STATE ROUTE MARKER	STH 11	24	x	24	--	--	--	--	--	--	--	--	--	--	--
	3P12	R7-1D (2)	NO PARKING ANYTIME (DOUBLE ARROW)	--	18	x	24	3.00	--	--	4758+50	LT	--	--	1	--	--	--
	3P13	W14-3 (2)	NO PASSING ZONE	--	48	x	36	--	6.00	--	4762+00	LT	--	--	1	--	--	--
	3P14	W1-4R (3)	RIGHT REVERSE CURVE	--	36	x	36	--	9.00	--	4762+00	RT	--	--	--	1	--	--
	*4M11	EXISTING	ADOPT A HIGHWAY	MOVE	--	x	--	--	--	--	4763+00	RT	--	--	1	--	--	1
	3P15	R3-8A (2)	LANE DESIGNATION LO RTS	--	36	x	30	7.50	--	--	4764+50	LT	--	--	1	--	--	--
	3P16	R4-7 (2)	KEEP RIGHT SYMBOL	--	24	x	30	5.00	--	--	4751+95	LT	--	--	--	1	--	--
	3P17	W5-54 (2)	REFLECTIVE DOTS ON DIAMOND	--	18	x	18	--	2.25	--	4751+95	LT	3P16	--	--	--	--	--
	3P18	R4-7 (2)	KEEP RIGHT SYMBOL	--	24	x	30	5.00	--	--	4752+32	LT	--	--	--	1	--	--
	3P19	W5-54 (2)	REFLECTIVE DOTS ON DIAMOND	--	18	x	18	--	2.25	--	4752+32	LT	3P18	--	--	--	--	--
	3P21	W13-1 (2)	ADVISORY SPEED (YELLOW)	40	18	x	18	--	2.25	--	4752+17	RT	3P05	--	--	--	--	--
	3P22	W1-2L (3)	LEFT CURVE	--	36	x	36	--	9.00	--	4759+00	LT	--	--	--	1	--	--
	3P23	W13-1 (2)	ADVISORY SPEED (YELLOW)	40	18	x	18	--	2.25	--	4759+00	LT	3P22	--	--	--	--	--
	4P01	W1-2L (3)	LEFT CURVE	--	36	x	36	--	9.00	--	4767+50	LT	--	--	--	1	--	--
	4P02	W1-2L (3)	LEFT CURVE	--	36	x	36	--	9.00	--	4768+32	RT	--	--	--	1	--	--
	4P03	W1-6 (2)	NIGHT ARROW (SINGLE)	--	48	x	24	--	8.00	--	4773+00	RT	--	--	1	--	--	--
	4P04	W1-6 (2)	NIGHT ARROW (SINGLE)	--	48	x	24	--	8.00	--	4775+50	RT	--	--	1	--	--	--
	4P05	W1-4R (3)	RIGHT REVERSE CURVE	--	36	x	36	9.00	2.25	--	4779+00	LT	--	--	1	--	--	--
	4P06	R2-1 (2)	SPEED LIMIT	55 MPH	24	x	30	5.00	--	--	4779+78	RT	--	--	1	--	--	--
	4P07	R2-1 (2)	SPEED LIMIT	45 MPH	24	x	30	5.00	--	--	4780+00	LT	--	--	1	--	--	--
	5P01	W14-3 (2)	NO PASSING ZONE	--	48	x	36	--	6.00	--	4783+35	RT	--	--	--	1	--	--
	5P02	W3-5 (2)	SPEED LIMIT AHEAD SYMBOL	--	36	x	36	--	9.00	--	4785+00	LT	--	--	--	1	--	--
	6P01	W3-1 (2)	STOP AHEAD	--	36	x	36	--	9.00	--	31+05	RT	--	--	--	1	--	--
	*3M20	EXISTING	SPEED LIMIT 45 MPH	MOVE	--	x	--	--	--	--	37+00	LT	--	--	1	--	--	1
	6P02	R1-1 (3)	STOP	--	36	x	36	7.46	--	--	38+55	LT	--	--	--	1	--	--
	6P03	R1-1 (3)	STOP (MOUNT ON FLASHER POLE)	--	36	x	36	7.46	--	--	38+55	RT	--	--	--	--	--	--
	6P04	W4-4P (2)	CROSS TRAFFIC DOES NOT STOP	--	24	x	12	--	2.00	--	38+55	RT	6P03	--	--	--	--	--
	6P05	R1-1 (3)	STOP (MOUNT ON FLASHER POLE)	--	36	x	36	7.46	--	--	40+10	LT	--	--	--	--	--	--
	6P06	W4-4P (2)	CROSS TRAFFIC DOES NOT STOP	--	24	x	12	--	2.00	--	40+10	LT	6P04	--	--	--	--	--
	6P07	R1-1 (3)	STOP	--	36	x	36	7.46	--	--	40+10	RT	--	--	--	1	--	--
	6P08	W14-3 (2)	NO PASSING ZONE	--	48	x	36	--	6.00	--	41+00	LT	--	--	1	--	--	--
	6P09	R2-1 (2)	SPEED LIMIT	45 MPH	24	x	30	5.00	--	--	41+00	RT	--	--	1	--	--	--
	6P10	W3-1 (2)	STOP AHEAD	--	36	x	36	--	9.00	--	47+60	LT	--	--	--	1	--	--
	7P02	W14-3 (2)	NO PASSING ZONE	--	48	x	36	--	6.00	--	56+00	RT	--	--	1	--	--	--
	7P03	R2-1 (2)	SPEED LIMIT	45 MPH	24	x	30	5.00	--	--	57+69	LT	--	--	1	--	--	--
	7P04	W14-1 (2)	DEAD END	--	30	x	30	6.25	--	--	79B+00	LT	--	--	1	--	--	--
	7P05	R1-1 (3)	STOP	--	36	x	36	7.46	--	--	79B+65	RT	--	--	--	1	--	--
	7P06	W5-56A (2)	END OF ROAD MARKER	--	18	x	18	--	--	2.25	74B+54	LT	--	1	--	--	--	--
	7P07	W5-56A (2)	END OF ROAD MARKER	--	18	x	18	--	--	2.25	74B+67	LT	--	1	--	--	--	--
	7P08	W5-56A (2)	END OF ROAD MARKER	--	18	x	18	--	--	2.25	74B+80	LT	--	1	--	--	--	--
TOTALS (I.D. 1030-24-74)								233.72	210.75	6.75				3	25	23	4	3

*SEE "REMOVING SIGNS" TABLE FOR EXISTING STATION AND LOCATION

REMOVING SIGNS

CATEGORY	ROADWAY	SIGN NO.	STATION	LOCATION	SAME POST AS SIGN NO.	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	SIGN MESSAGE
1000	WEST FRONTAGE ROAD	1R01	2739+50	RT	--	1	1	ARROW LEFT
		1R02	2743+22	RT	--	1	1	JCT 11
		1R03	2745+21	RT	--	1	1	RIGHT CURVE
		2R01	2747+28	LT	--	1	1	45 M.P.H.
		2R02	2747+28	LT	2R01	1	--	RIGHT CURVE
		2R03	2747+28	RT	--	1	1	STOP AHEAD
		*2M04	2755+56	LT	--	--	--	ADOPT A HIGHWAY
		2R05	2755+73	RT	--	1	1	NO PASSING ZONE
		2R06	2757+78	RT	--	1	1	STOP
		2R07	2757+78	RT	--	1	1	11 DIRECTIONAL ARROW LT OR RT
		3R01	4751+20	LT	--	1	1	TO 41 DIRECTIONAL ARROW LT, TO 94 DIRECTIONAL ARROW LT
		3R02	4751+20	LT	--	1	1	11 DIRECTIONAL ARROW LT OR RT
		3R03	4751+20	LT	--	1	1	STOP
		3R04	4752+18	LT	--	1	1	NO PARKING ANY TIME
		3R05	4752+90	LT	--	1	1	NO PARKING ANY TIME
		3R06	4754+40	LT	--	1	1	STOP AHEAD
		3R07	4754+87	LT	--	1	1	NO PARKING ANY TIME
		3R08	4755+00	LT	--	1	1	NO PARKING ANY TIME
		3R09	4755+00	LT	3R08	1	--	JCT 11
		3R12	4755+78	LT	--	1	1	WEST FRONTAGE ROAD RIGHT TURN
		3R13	4756+74	LT	--	1	1	NO PARKING ANY TIME
		3R14	4756+76	LT	--	1	1	NO PARKING ANY TIME
		3R15	4757+90	LT	--	1	1	STOP AHEAD
		3R16	4758+92	LT	--	1	1	NO PARKING ANY TIME
		3R17	4758+92	LT	--	1	1	NO PARKING ANY TIME
		3R18	4760+14	LT	--	1	--	STOP (MOUNTED ON FLASHER POLE)
		3R19	4760+14	LT	--	1	1	WEST FRONTAGE ROAD DIRECTIONAL ARROW RT
		*3M20	35+06	LT	--	--	--	SPEED LIMIT 45
		3R21	36+71	LT	--	1	1	ALT 41 DIRECTIONAL ARROW RT, ALT 94 DIRECTIONAL ARROW RT
		3R22	36+86	LT	--	1	1	DOUBLE NIGHT ARROW
		3R23	37+04	LT	--	1	1	TO 41,TO 94, TO WEST FRONTAGE ROAD, 3 DIRECTIONAL ARROWS RT
		3R24	37+83	RT	--	1	1	SPEED LIMIT 45
		4R01	43+00	LT	--	1	1	STOP AHEAD
		4R02	48+05	LT	--	1	1	TO 41, TO 94, TO FRONTAGE ROAD, 3 DIRECTIONAL ARROWS RT
		4R03	48+12	RT	--	1	1	STOP
		4R04	48+12	RT	--	1	1	WEST FRONTAGE ROAD DIRECTIONAL ARROW LT
		4R05	48+12	RT	--	1	1	ALT 94 DIRECTIONAL ARROW LT, ALT 41 DIRECTIONAL ARROW LT
		4R06	48+23	LT	--	1	1	STOP
		4R07	48+62	RT	--	1	1	DOUBLE NIGHT ARROW
		4R08	49+07	LT	--	1	1	STOP
		4R09	8770+34	RT	--	1	1	NO PASSING ZONE
		4R10	8770+70	LT	--	1	1	STOP AHEAD
		*4M11	8766+36	RT	--	--	--	ADOPT A HIGHWAY
		4R12	47+00	LT	--	1	1	SPEED LIMIT 45
		4R13	48+93	LT	--	1	1	STOP
		5R02	4780+33	LT	--	1	1	NO PASSING ZONE
		6R01	50+54	LT	--	1	1	TO 94 LT ARROW, TO 41 RT ARROW
		6R02	50+54	LT	--	1	1	FRONTAGE ROAD DIRECTIONAL ARROW LT OR RT
		6R03	50+73	LT	--	1	1	STOP
		6R04	50+91	LT	6R03	1	--	TRAFFIC FROM RIGHT DOES NOT STOP
		6R05	51+52	LT	--	1	1	STOP
		6R06	51+26	RT	--	1	1	DOUBLE NIGHT ARROW
		6R07	51+18	RT	--	1	1	CLEARANCE MARKER W 9 YELLOW
		6R08	51+31	RT	--	1	1	CLEARANCE MARKER W 9 YELLOW
		6R09	51+45	RT	--	1	1	CLEARANCE MARKER W 9 YELLOW
		6R10	51+82	LT	--	1	1	ALT 41 DIRECTIONAL ARROW RT, ALT 94 DIRECTIONAL ARROW RT
		6R11	51+82	LT	--	1	1	EAST FRONTAGE ROAD DIRECTIONAL ARROW RT
		6R12	51+82	LT	--	1	1	STOP
		6R13	51+82	LT	6R12	1	--	ONCOMING TRAFFIC DOES NOT STOP
		6R14	79B+46	LT	--	1	1	DEAD END
		6R15	79B+46	RT	--	1	1	DEAD END
		6R16	79B+60	RT	--	1	1	STOP
		6R17	54+57	RT	--	1	1	FRONTAGE ROAD
		6R18	57+50	LT	--	1	1	STOP AHEAD
TOTALS (I.D. 1030-24-74)						61	56	

*SEE "PERMANENT SIGNING SUMMARY" FOR MOVING SIGNS PAY ITEM, NEW STATION AND LOCATION

3

TRAFFIC CONTROL SIGNS FIXED MESSAGE

CATEGORY	LOCATION	STAGE	SIGN NO.	SIGN SIZE W x H FT x FT	643.1000 TRAFFIC CONTROL SIGNS FIXED MESSAGE SF
1000	WEST FRONTAGE ROAD				
		1	1301	8' x 3'	24.00
			1302	8' x 3'	24.00
			1303	8' x 3'	24.00
			1304	8' x 3'	24.00
	TOTAL				96

TRAFFIC CONTROL ITEMS (PROJECT)

CATEGORY	ROADWAY	643.0100.030 TRAFFIC CONTROL 1030-24-74 EACH	643.2000.014 TRAFFIC CONTROL DETOUR 1030-24-74 EACH
1000	WEST FRONTAGE ROAD	1	1
	TOTALS (I.D. 1030-24-74)	1	1

3

TRAFFIC CONTROL ITEMS

CATEGORY	LOCATION	STAGE	STAGE DURATION DAYS	643.0300 DRUMS EACH*	DAYS	643.0420 BARRICADES TYPE III EACH*	DAYS	643.0705 WARNING LIGHTS TYPE A EACH*	DAYS	643.0715 WARNING LIGHTS TYPE C EACH*	DAYS	643.0900 SIGNS EACH*	DAYS	643.1050 TRAFFIC CONTROL SIGNS PCMS EACH*	DAYS	643.3000 TRAFFIC CONTROL DETOUR SIGNS EACH*	DAYS
1000	WEST FRONTAGE ROAD	1	149	30	4,470	16	2,384	32	4,768	15	2,235	32	4,768	2	60	113	16,837
	UNDISTRIBUTED			--	225	--	121	--	242	--	115	--	477	4	120	--	1,688
	TOTALS (I.D. 1030-24-74)				4,695		2,505		5,010		2,350		5,245		180		18,525

* FOR INFORMATION ONLY

TRAFFIC CONTROL ITEMS

CATEGORY	LOCATION	STAGE	STATION	OFFSET	643.0920 TRAFFIC CONTROL COVERING SIGNS TYPE II EACH	NO. CYCLES	NO. SIGNS	SIGN MESSAGE
1000	STH 11 EASTBOUND	1	--	RT	1	1	1	WEST FRONTAGE ROAD (ARROW)
	STH 11 WESTBOUND	1	--	LT/RT	2	1	2	WEST FRONTAGE ROAD (ARROW)
				RT	1	1	1	ALT WEST 94/NORTH 41 (ARROW)
				LT	1	1	1	ALT EAST 94/SOUTH 41 (ARROW)
	UNDISTRIBUTED	1	--	--	10	1	10	VARIES
	TOTAL (1030-24-74)				15			

PAVEMENT MARKING

CATEGORY	ROADWAY	DESCRIPTION	STATION	646.0106 PAVEMENT MARKING EPOXY 4-INCH YELLOW LF	646.2304.S PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH WHITE LF	646.2308.S PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 8-INCH WHITE LF	646.2308.S PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 8-INCH DASHED WHITE 3' LINE, 9' SKIP LF	647.0726 PAVEMENT MARKING DIAGONAL EPOXY 12-INCH YELLOW LF	647.0166 PAVEMENT MARKING ARROWS EPOXY TYPE 2 EACH	647.0176 PAVEMENT MARKING ARROWS EPOXY TYPE 3 EACH	647.0356 PAVEMENT MARKING WORDS EPOXY EACH	647.0456 PAVEMENT MARKING CURB EPOXY LF	647.0566 PAVEMENT MARKING STOP LINE EPOXY 18-INCH LF	647.0606 PAVEMENT MARKING ISLAND NOSE EPOXY EACH
1000	WEST FRONTAGE ROAD													
		RIGHT EDGE OF PAVEMENT	2737+00 - 2757+63	--	2,063	--	--	--	--	--	--	--	--	--
		LEFT EDGE OF PAVEMENT	2737+00 - 2757+54	--	2,054	--	--	--	--	--	--	--	--	--
		CENTER LINE (DOUBLE)	2737+00 - 2753+83	3,366	--	--	--	--	--	--	--	--	--	--
		GORE AREA	2753+83 - 2757+90	1,628	--	--	--	215	--	--	--	--	--	--
		RIGHT TURN LANE TAPER	2753+65 - 2755+66	--	--	--	51	--	--	--	--	--	--	--
		BIKE LANE	2755+69 - 2757+90	--	224	224	--	--	2	2	2	--	--	--
		NB STOP LINE	2757+90	--	--	--	--	--	--	--	--	--	55	--
		SB STOP LINE	4751+14	--	--	--	--	--	--	--	--	--	55	--
		RIGHT EDGE OF PAVEMENT	4751+47 - 4759+75	--	817	--	--	--	--	--	--	--	--	--
		NB STOP LINE	4752+10	--	--	--	--	--	--	--	--	--	36	--
		LEFT EDGE OF PAVEMENT	4751+21 - 4759+60	--	828	--	--	--	--	--	--	--	--	--
		GORE AREA	4751+14 - 4757+97	2,688	--	--	--	260	--	--	--	--	--	--
		BIKE LANE	4751+14 - 4752+59	--	134	134	--	--	2	2	1	--	--	--
		RIGHT TURN LANE TAPER	4752+59 - 4754+20	--	--	--	42	--	--	--	--	--	--	--
		MEDIAN ISLAND	4751+89 - 4752+39	--	--	--	--	--	--	--	--	40	--	2
		CENTER LINE (DOUBLE)	4757+97 - 4760+16	438	--	--	--	--	--	--	--	--	--	--
		LEFT TURN, RIGHT LANE LINE	4757+97 - 4760+16	--	--	219	150	--	2	--	1	--	--	--
		CENTER LINE (DOUBLE)	4760+79 - 4762+97	417	--	--	--	--	--	--	--	--	--	--
		CENTER LINE (DOUBLE)	4767+76 - 4785+00	3,448	--	--	--	--	--	--	--	--	--	--
		RIGHT EDGE OF PAVEMENT	4761+39 - 4785+00	--	2,361	--	--	--	--	--	--	--	--	--
		LEFT EDGE OF PAVEMENT	4761+15 - 4785+00	--	2,385	--	--	--	--	--	--	--	--	--
		LEFT TURN, RIGHT LANE LINE	4760+79 - 4762+97	--	--	218	153	--	2	--	1	--	--	--
		GORE AREA	4762+97 - 4767+76	1,916	--	--	--	150	--	--	--	--	--	--
	58TH ROAD													
		LEFT EDGE OF PAVEMENT	34+00 - 38+36	--	436	--	--	--	--	--	--	--	--	--
		RIGHT EDGE OF PAVEMENT	34+00 - 39+64	--	564	--	--	--	--	--	--	--	--	--
		CENTER LINE (DOUBLE)	34+00 - 38+78	956	--	--	--	--	--	--	--	--	--	--
		EB STOP LINE	38+78	--	--	--	--	--	--	--	--	--	40	--
		WB STOP LINE	39+55	--	--	--	--	--	--	--	--	--	41	--
		LEFT EDGE OF PAVEMENT	39+69 - 57+72	--	1,803	--	--	--	--	--	--	--	--	--
		RIGHT EDGE OF PAVEMENT	39+96 - 57+72	--	1,642	--	--	--	--	--	--	--	--	--
		CENTER LINE (DOUBLE)	39+55 - 57+72	3,634	--	--	--	--	--	--	--	--	--	--
	ACCESS ROAD 'B'													
		STOP LINE	79B+68	--	--	--	--	--	--	--	--	--	29	--
		CENTER LINE (DOUBLE)	76B+39 - 79B+68	659	--	--	--	--	--	--	--	--	--	--
		SUBTOTALS (I.D. 1030-24-74)		19,150	15,311	795	396							
		TOTALS (I.D. 1030-24-74)		19,150	15,311	1,191		625	8	4	5	40	256	2

LOCATING NO PASSING ZONES

CATEGORY	ROADWAY	START	END	648.0100 LOCATING NO PASSING ZONES MI
1000	WEST FRONTAGE ROAD	2737+00	4785+00	1.04
	58TH ROAD	34+00	57+72	0.45
	TOTAL (I.D. 1030-24-74)			1.49

FIELD OFFICE

CATEGORY	ROADWAY	SPV.0060.088 FIELD FACILITIES OFFICE SPACE LS
1000	WEST FRONTAGE ROAD	0.2
	TOTAL (I.D. 1030-24-74)	0.2

3

SAW CUTTING ITEMS

CATEGORY	ROADWAY	STA	LOCATION	690.0150 SAWING ASPHALT LF	690.0250 SAWING CONCRETE LF	DESCRIPTION
1000	WEST FRONTAGE ROAD					
		2740+79	LT	12	--	DRIVEWAY
		2755+66	LT & RT	91	--	MATCH PT.
		4751+02	LT & RT	106	--	MATCH PT.
		4753+85	LT	18	--	DRIVEWAY
		4781+70	LT	26	--	DRIVEWAY
		4784+29	LT	15	--	DRIVEWAY
	58TH ROAD					
		34+00	LT & RT	28	--	BEGIN CONSTRUCTION
		34+47	LT	--	20	DRIVEWAY
		37+76	LT	14	--	DRIVEWAY
		49+00	LT & RT	35	--	STAGE 1/STAGE 2 MATCH PT.
		50+00	LT & RT	--	250	SLOPE PAVING UNDER IH-94
	ACCESS ROAD "B"					
		74+24	RT	20	--	DRIVEWAY
		TOTALS (I.D. 1030-24-74)		365	270	

SURVEY PROJECT

CATEGORY	ROADWAY	SPV.0105.030 SURVEY PROJECT 1030-24-74 LS
1000	WEST FRONTAGE RD	1
	TOTAL (I.D. 1030-24-74)	1

3

GRADING, SHAPING, AND FINISHING DITCH

CATEGORY	ROADWAY	EXCAVATION COMMON* CY	SALVAGED TOPSOIL* SY	FERTILIZER TYPE B* CWT	SEEDING MIX NO. 20* LB	SEEDING TEMPORARY* LB	SPV.0105.098 LS
1000	RAILROAD DITCHING	250	2,650	5	195	195	1
	TOTALS (I.D. 1030-24-81)	250	2,650	5	195	195	1

* ITEMS & QUANTITIES LISTED FOR BID INFORMATION ONLY

NOTE: ITEMS INCLUDE RESTORATION OF THE TRUCK ACCESS AND TRACKING PAD AREA

PAVEMENT CLEANUP PROJECT 1030-24-74

CATEGORY	ROADWAY	SPV.0075.031 PAVEMENT CLEANUP PROJECT 1030-24-74 HRS
1000	WEST FRONTAGE ROAD	40
	TOTAL (I.D. 1030-24-74)	40

TRAFFIC FLASHING BEACON SYSTEM , SOLAR CATEGORY 1500 1030-24-74

LOCATION	TRAFFIC FLASHING BEACON SYSTEM EACH SPV.0060.089	TRAFFIC FLASHING BEACON SYSTEM EACH SPV.0060.090
58th Road Eastbound at West Frontage Road	1	
58th Road westbound at West Frontage Road		1
TOTAL	1	1

3

IH 94 WEST FRONTAGE RD.
RACINE COUNTY
CATEGORY 1500
F30-0491

3

3

REMOVING CONCRETE BASES

SIGNAL BASE NO.	204.0195 REMOVING CONCRETE BASES EACH
SB1	1
TOTAL	1

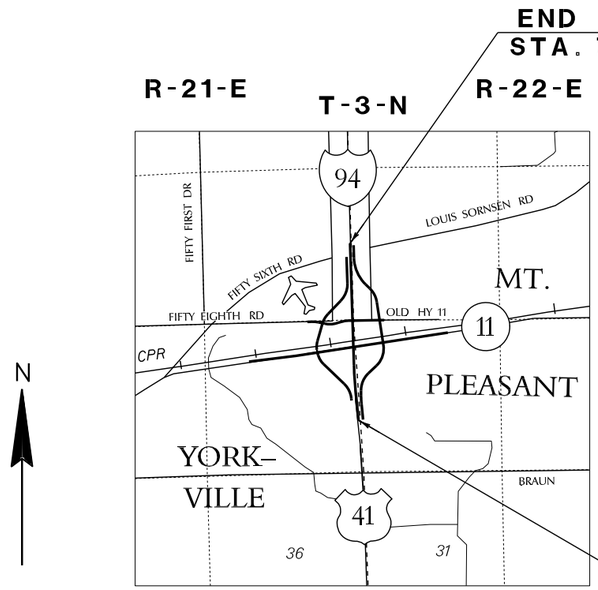
REMOVE TRAFFIC SIGNALS

LOCATION	SPV.0105.309 REMOVE TRAFFIC SIGNALS L.S.
IH 94 WEST FRTONTAGE ROAD	1
TOTAL	1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

TRANSPORTATION PROJECT PLAT TITLE SHEET

PROJECT NO. 1030-24-20
INTERSTATE 94
STH 11 INTERCHANGE
RACINE COUNTY



N

BEGIN PROJECT
STA. 724+46.53

YORKVILLE MT. PLEASANT
R-21-E R-22-E
RACINE COUNTY

LAYOUT
SCALE 0 1 MILE

THE NOTES, CONVENTIONAL SYMBOLS, AND VARIOUS ABBREVIATIONS ARE ASSOCIATED WITH EACH TRANSPORTATION PROJECT PLAT OF PROJECT 1030-24-20.

NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, RACINE COUNTY ZONE, NAD83 (97) ADJUSTMENT AND ARE REFERENCED TO GPS HARN POINTS YORKVILLE EAST, RAYMOND SOUTH, AND PARIS EAST. ALL DISTANCES ARE GROUND LENGTH.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL ¾" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT, BY SE REGION DOT SURVEY.

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS OF PUBLIC RECORD".

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY LINES, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE. ALL TLEs EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

A PERMANENT LIMITED EASEMENT (PLE) IS A RIGHT FOR CONSTRUCTION AND MAINTENANCE PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE. BUT WITHOUT PREJUDICE TO THE OWNER'S RIGHT TO MAKE OR CONSTRUCT IMPROVEMENT ON SAID LANDS OR TO FLATTEN THE SLOPES, PROVIDING SAID ACTIVITIES WILL NOT IMPAIR OR OTHERWISE ADVERSELY AFFECT THE HIGHWAY FACILITIES.

CONVENTIONAL ABBREVIATIONS

ACCESS POINT	AP	RELEASE OF RIGHTS	ROR
ACCESS RIGHTS	AR	REMAINING	REM.
ACRES	AC.	RIGHT-OF-WAY	R/W
AND OTHERS	ET.AL.	SECTION	SEC.
CENTERLINE	C/L	STATION	STA.
CERTIFIED SURVEY MAP	CSM	TEMPORARY LIMITED EASEMENT	TLE
CORNER	COR.	VOLUME	V.
CONVEYANCE OF RIGHTS	CR		
DOCUMENT	DOC.	**CURVE DATA**	
EASEMENT	EASE.	LONG CHORD	LCH
LAND CONTRACT	LC	LONG CHORD BEARING	LCB
MONUMENT	MON.	RADIUS	R
PAGE	P.	DEGREE OF CURVE	D
PERMANENT LIMITED EASEMENT	PLE	CENTRAL ANGLE OR DELTA	DELTA
PROPERTY LINE	PL	LENGTH OF CURVE	L
RECORDED AS	(100')	TANGENT	TAN
REFERENCE LINE	R/L		

CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN	⌀ (1" UNLESS NOTED)	PROPOSED R/W LINE	
		EXISTING H.E. LINE	
R/W MONUMENT	●(SET)	PROPERTY LINE	
R/W STANDARD	▲(SET)	LOT & TIE LINES	
SIGN	SIGN	SLOPE INTERCEPTS	
SECTION CORNER MONUMENT		CORPORATE LIMITS	
SECTION CORNER SYMBOL		NO ACCESS (BY PREVIOUS ACQUISITION/CONTROL)	
FEE - HE (HATCH VARIES)		NO ACCESS (BY ACQUISITION)	
TEMPORARY LIMITED EASEMENT		NO ACCESS (BY STATUTORY AUTHORITY)	
PERMANENT LIMITED EASEMENT		SECTION LINE	
R/W BOUNDARY POINT	RWBZ0	QUARTER LINE	
PARCEL NUMBER	02	SIXTEENTH LINE	
SIGN NUMBER (OFF PREMISE)	21	EXISTING CENTERLINE	
BUILDING		PROPOSED REFERENCE LINE	
		PARALLEL OFFSET	

CONVENTIONAL UTILITY SYMBOLS

WATER	W	
GAS	G	
TELEPHONE	T	
OVERHEAD TRANSMISSION LINES	OH	
ELECTRIC	E	
CABLE TELEVISION	TV	
FIBER OPTIC	FO	
SANITARY SEWER	SAN	
STORM SEWER	SS	
	NON COMPENSABLE	COMPENSABLE
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		
ELECTRIC TOWER		

THIS IS A COPY, THE ORIGINAL DOCUMENT IS AT THE RACINE COUNTY REGISTER OF DEEDS.

TPP NUMBER 1030-24-20-4.01
SHEET 2 OF 2

DOCUMENT #3237987
RACINE COUNTY REGISTER OF DEEDS
December 29, 2009 8:24 AM
JAMES A LADWIG
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: $25.00
Pages: 2
Vol 1 pg 90

FILE NAME : J:\projects\d2_r_10302494\20\040400_rp.dgn PLOT DATE : 11-DEC-2009 08:11 PLOT BY : dotphk PLOT NAME : PLOT SCALE : 100.000000:1.000000
CONST. 1030-24-70 STH 11 R/W 1030-24-20 4.00

TRANSPORTATION PROJECT PLAT NO: 1030-24-20 - 4.01

THAT PART OF THE NE1/4 OF THE SE1/4, SECTION 25, TOWN 3 NORTH, RANGE 21 EAST, TOWN OF YORKVILLE, AND THE NW1/4 OF THE SW1/4, SECTION 30, TOWN 3 NORTH, RANGE 22 EAST, VILLAGE OF MT. PLEASANT, RACINE COUNTY, WISCONSIN.

RELOCATION ORDER IH-94/STH 11 RACINE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

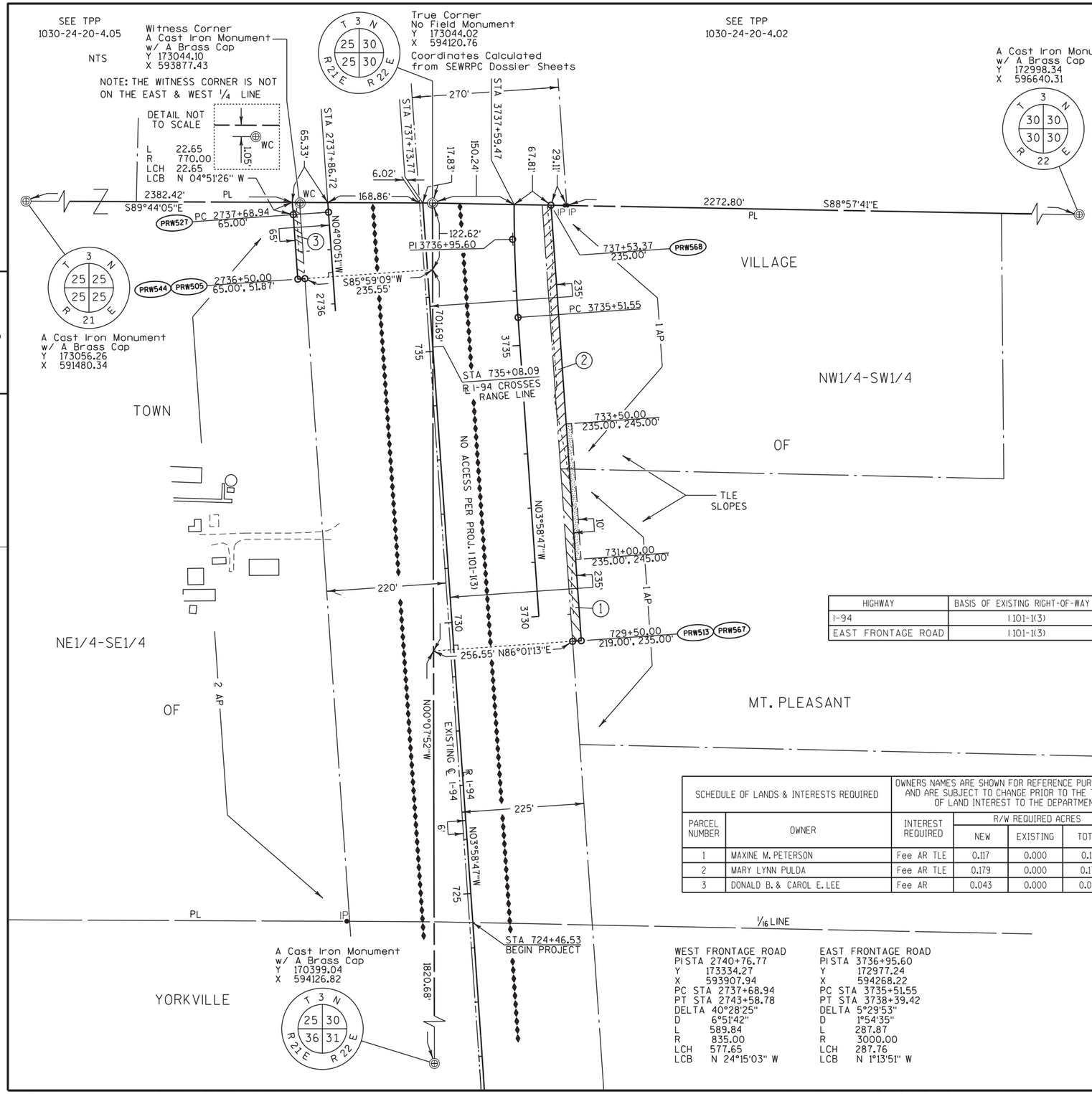
TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, RACINE COUNTY ZONE, NAD83 (97) ADJUSTMENT AND ARE REFERENCED TO GPS HARN POINTS YORKVILLE EAST, RAYMOND SOUTH, AND PARIS EAST. ALL DISTANCES ARE GROUND LENGTH.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL ¾" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT, BY SE REGION DOT SURVEY.

FOR THE LATEST ACCESS / DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.



HIGHWAY	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
I-94	I 101-1(3)	VARIES	1956
EAST FRONTAGE ROAD	I 101-1(3)	VARIES	1956

SCHEDULE OF LANDS & INTERESTS REQUIRED		OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.				
PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED ACRES			T.L.E. TEMP. ACRES
			NEW	EXISTING	TOTAL	
1	MAXINE M. PETERSON	Fee AR TLE	0.117	0.000	0.117	0.038
2	MARY LYNN PULDA	Fee AR TLE	0.179	0.000	0.179	0.019
3	DONALD B. & CAROL E. LEE	Fee AR	0.043	0.000	0.043	0.000

WEST FRONTAGE ROAD
PISTA 2740+76.77
Y 173334.27
X 593907.94
PC STA 2737+68.94
PT STA 2743+58.78
DELTA 40°28'25"
D 6°51'42"
L 589.84
R 835.00
LCH 577.65
LCB N 24°15'03" W

EAST FRONTAGE ROAD
PISTA 3736+95.60
Y 172977.24
X 594268.22
PC STA 3735+51.55
PT STA 3738+39.42
DELTA 5°29'53"
D 1°54'35"
L 287.87
R 3000.00
LCH 287.76
LCB N 1°13'51" W

YORKVILLE R-21-E | MT. PLEASANT R-22-E
RACINE COUNTY

THIS IS A COPY, THE ORIGINAL DOCUMENT IS AT THE RACINE COUNTY REGISTER OF DEEDS.

GN

SCALE, FEET
0 100 200

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2, OF THIS DOCUMENT FOR ADDITIONAL INFORMATION.

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENTOF TRANSPORTA...

DATE: 12-11-09
Name Craig Andersen
Title Real Estate Supervisor

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:
DATE: 12-11-2009
Name Paul Krause

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1030-24-20-4.01
SHEET 1 OF 2
AMENDMENT NO:

DOCUMENT #2237987
RACINE COUNTY REGISTER OF DEEDS
December 29, 2009 8:24 AM
JAMES A LADWIG
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: $25.00
Pages: 2
Vol 1 pg 90

FILE NAME : J:\projects\d2_r_10302494\20\040401_rp.dgn PLOT DATE : 11-DEC-2009 08:10 PLOT BY : dotphk PLOT NAME : PLOT SCALE : 100.000000:1.000000
CONST. 1030-24-70 STH 11 R/W 1030-24-20 4.01

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF DOCUMENT 2237987, OF TRANSPORTATION PROJECT PLATS IN THE RACINE COUNTY REGISTER OF DEEDS.

HIGHWAY	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
I-94	I 101-1(3)	VARIES	1956
I-94	2382	VARIES	1935
STH 11	1320-03-20	VARIES	2000
STH 11	2665	94'	1927
EAST FRONTAGE ROAD	1320-03-20	VARIES	2000
EAST FRONTAGE ROAD	1032-01-21	VARIES	1969
58TH ROAD	TOWN ROAD V. B P.62	49.50'	1843

NOTE: SEE CONTROLLED ACCESS PLAT 1320-00-27

I-94
PISTA 744+39.94
Y 173708.68
X 594056.69
PC STA 739+64.64
PT STA 749+14.88
DELTA 3°53'20"
D 0°24'33"
L 950.25'
R 14000.00'
LCH 950.06'
LCB N 2°02'07" W

EAST FRONTAGE ROAD
PISTA 3736+95.60
Y 172977.24
X 594268.22
PC STA 3735+51.55
PT STA 3738+39.42
DELTA 5°29'53"
D 1°54'35"
L 287.87'
R 3000.00'
LCH 287.76'
LCB N 1°13'51" W

EAST FRONTAGE ROAD
PISTA 3743+74.44
Y 173656.07
X 594286.21
PC STA 3740+20.91
PT STA 3746+88.34
DELTA 46°43'12"
D 7°00'00"
L 667.43'
R 818.51'
LCH 649.09'
LCB N 24°52'41" E

EAST FRONTAGE ROAD
PISTA 3755+01.36
Y 174433.03
X 595156.36
PC STA 3750+73.45
PT STA 3758+62.03
DELTA 55°12'04"
D 7°00'00"
L 788.58'
R 818.51'
LCH 758.44'
LCB N 20°38'16" E

TRANSPORTATION PROJECT PLAT NO: 1030-24-20 - 4.02 AMENDMENT NO: 3

AMENDS PARCEL 100 OF TPP 1030-24-20-4.02 AMENDMENT NO: 2, RECORDED AS DOCUMENT 2288420.

THAT PART OF THE SW1/4 OF THE NW1/4 AND THE NW1/4 OF THE NW1/4, SECTION 30, TOWN 3 NORTH, RANGE 22 EAST, VILLAGE OF MT. PLEASANT, RACINE COUNTY, WISCONSIN.

RELOCATION ORDER IH-94/STH 11 RACINE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

NOTE: THE WITNESS CORNER IS NOT ON THE EAST & WEST 1/4 LINE

Witness Corner
A Cast Iron Monument
w/ A Brass Cap
Y 173044.10
X 593877.43

DETAIL NOT TO SCALE

True Corner
No Field Monument
Y 173044.02
X 594120.76

Coordinates Calculated from SEWRPC Dossier Sheets

SEE TPP 1030-24-20-4.05

SEE TPP 1030-24-20-4.01

SEE TPP 1030-24-20-4.03

SEE TPP 1030-24-20-4.04

STA 737+73.77
STA 3737+59.47
STA 755+53.87 I-94 = STA 134+21.89 STH 11
STA 134+86.24
STA 764+28.24 I-94 = STA 50+00.00 58TH ROAD
STA 50+64.34 58TH ROAD
STA 80+00.00 CUL DE SAC = STA 59+19.80 58TH ROAD
STA 59+50.71 58TH ROAD = STA 5762+16.19 E FR NORTH

S89°41'05"E
S88°56'45"E
S88°57'41"E

L 833.34'
R 12277.67'
LCH 833.18'
LCB N 02°02'07" W

PI 744+39.94
PI 3743+74.44
PT 749+14.88
PT 3738+39.42
PC 739+64.64
PC 3740+20.91
PC 3745+88.24
PT 3746+88.34
PI 3750+73.45
PT 3758+62.03
PI 3755+01.36

N03°58'47"W
N01°31'05"E
N00°03'45"W 1786.69'
N00°05'27"W
N00°53'01"W
N83°05'15"E
N08°08'34"E
N36°22'41"E
N17°33'15"E
N02°27'32"E
N45°04'34"E
N48°14'18"E
N18°38'14"E
N83°10'06"E
N00°00'00"W
N37°00'19" E
N21°53'36"E
N01°10'48"E
N46°09'02"E
N10°22'21"E
N45°19'18"E
N37°25'25"E
N38°10'16"W
N41°36'46"W
N06°57'50"W
S18°03'24"W
S83°05'15"W
S06°54'45"E
S37°25'25"E
S41°36'46"E
N41°36'46"E
N83°05'15"E
N00°03'45"W
N47°56'46"E

17.83'
150.24'
96.92'
272.50'
272.80'
88.34'
49.07'
106.87'
47.67'
216.51'
768.51'
215.79'
483.06'
180.84'
147.06'
89.49'
42.08'
174'
120.00'
95.00'
136.00'
145.45'
91.27'
302.33'
60.00'
94.39'
361.95'
361.91'
79.66'
61.00'
135.35'
55.00'
78.20'
886.37'
865.44'
551.45'
361.90'
277.02'
20.00'
144.88'
120.67'
36.49'
156.32'
465.02'
888.51'
459.73'
211.26'
908.51'
210.78'
1611.93'
145+35.71

R 1/16 LINE

R EAST FRONTAGE ROAD
R NORTH BOUND ON RAMP
R NORTH BOUND EXIT RAMP
R I-94
R STH 11
R 58TH ROAD
R NORTH BOUND ON RAMP

NO ACCESS PER PROJ. I 101-1(3)
NO ACCESS, PER PROJ. 1032-01-21
NO ACCESS, PER PROJ. 1320-03-20
NO ACCESS, PER PROJ. 1320-03-20

DETAIL NOT TO SCALE

MOUNT PLEASANT
VILLAGE OF
SW1/4-NW1/4
NW1/4-NW1/4

YORKVILLE R-21-E
MT. PLEASANT R-22-E
RACINE COUNTY
T-3-N R-21-E R-22-E
SHEET LOCATION

SOO LINE RAILROAD CO.
DOT LANDS PARK & ROAD
EXISTING ℄ I-94
℄ STH 11 1927
℄ I-94

TLE SLOPES
TLE SLOPES & DRIVE
TLE DRIVE
1 AP
1 AP PER PROJ. 1320-03-20
ACCESS FOR PARCEL 5 VIA NONDESCRIPT EASEMENT AGREEMENT V 2513 P 899

A Concrete Monument w/ An Aluminum Cap
Y 175696.15
X 594117.87

A Cast Iron Monument
w/ A Brass Cap
Y 172998.34
X 596640.31

A Cast Iron Monument
Y 175503.19
X 596615.74

(100) NO RECORDED EASEMENT PCL. 8
V. 919 P. 279 DOC. 811995 PCL. 9

(101) NO RECORDED EASEMENT PCL. 8

(103) V 485 P 507 DOC. 544359 PCL. 9,11

NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, RACINE COUNTY ZONE, NAD83 (97) ADJUSTMENT AND ARE REFERENCED TO GPS HARN POINTS YORKVILLE EAST, RAYMOND SOUTH, AND PARIS EAST. ALL DISTANCES ARE GROUND LENGTH.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL ¾" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT, BY SE REGION DOT SURVEY.

FOR THE LATEST ACCESS / DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

SCHEDULE OF LANDS & INTERESTS REQUIRED		OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.					
			R/W REQUIRED ACRES			T.L.E.	P.L.E.
PARCEL NUMBER	OWNER	INTEREST REQUIRED	NEW	EXISTING	TOTAL	TEMP. ACRES	PERM. ACRES
4	VERENA E. PETERSEN TRUST	Fee AR	0.007	0.000	0.007	0.000	0.000
5	RODNEY A. JENSEN	Fee AR TLE	0.054	0.000	0.054	0.044	0.000
6	ELIMINATED		0.000	0.000	0.000	0.000	0.000
7	JOSEPH C. MRAZEK SR.	Fee AR TLE	0.133	0.000	0.133	0.097	0.000
8	SOO LINE RAILROAD COMPANY	HE	0.593	0.000	0.593	0.000	0.000
9	LAKE-COOK FARM SUPPLY	Fee AR TLE	0.433	0.255	0.688	0.090	0.000
10	W. H. PUGH OIL CO.	Fee TLE	0.316	0.418	0.734	0.033	0.000
11	CHARLES R. & MARILYN A. ENGEL	Fee	0.465	0.045	0.510	0.000	0.000
100	WE ENERGIES ELECTRIC	ROR	-----	-----	-----	-----	-----
101	WE ENERGIES GAS	ROR	-----	-----	-----	-----	-----
103	AT&T WISCONSIN	ROR	-----	-----	-----	-----	-----

SCALE, FEET
0 100 200

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1030-24-20-4.02
AMENDMENT NO: 3

THIS IS A COPY, THE ORIGINAL DOCUMENT IS AT THE RACINE COUNTY REGISTER OF DEEDS

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENTOF TRANSPORTATION.

DATE: 9-6-2011
Name
Title

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 9-6-2011
Name PAUL KRAUSE

DOCUMENT # 2294368
RACINE COUNTY REGISTER OF DEEDS
September 15, 2011 12:00 PM
TYSON FEITER
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: $30.00
Pages: 1
Vol 1 Pg 189

FILE NAME : J:\projects\d2_r_10302494\20\040402A3_rp.dgn
PLOT DATE : 02-SEP-2011 09:35
PLOT BY : dotphk
PLOT NAME :
PLOT SCALE : 100.000000:1.000000
CONST. 1030-24-70 STH 11 R/W 1030-24-20 4.02A3

TRANSPORTATION PROJECT PLAT NO: 1030-24-20 - 4.03 AMENDMENT NO: 1

AMENDS PARCEL 100 OF TPP 1030-24-20-4.03, RECORDED AS DOCUMENT 2240908.

THAT PART OF PARCEL 2 OF CSM 1085, LOCATED IN AND INCLUDING THAT PART OF THE NE1/4 OF THE NW1/4, AND THE NW1/4 OF THE NW1/4, SECTION 30, TOWN 3 NORTH, RANGE 22 EAST, VILLAGE OF MT. PLEASANT, RACINE COUNTY, WISCONSIN.

RELOCATION ORDER IH-94/STH 11 RACINE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

SCHEDULE OF LANDS & INTERESTS REQUIRED		OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.					
PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED ACRES			T.L.E. TEMP. ACRES	P.L.E. PERM. ACRES
			NEW	EXISTING	TOTAL		
8	SOO LINE RAILROAD COMPANY	HE TLE	0.432	0.000	0.432	0.155	0.000
9	LAKE-COOK FARM SUPPLY	Fee	0.062	0.000	0.062	0.000	0.000
12	WALTER THOMAS HARMANN	TLE	0.000	0.000	0.000	0.123	0.000
13	JAY D. & JANE E. WILDFONG	TLE	0.000	0.000	0.000	0.010	0.000
14	KAREN A. SCHUTTEN	Fee AR TLE	0.252	0.129	0.381	0.021	0.000
100	WE ENERGIES ELECTRIC	ROR	-----	-----	-----	-----	-----
103	AT&T WISCONSIN	ROR	-----	-----	-----	-----	-----

HIGHWAY	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
STH 11	1320-03-20	VARIES	2000
STH 11	2665	94'	1927
EAST FRONTAGE ROAD	1320-03-20	VARIES	2000
EAST FRONTAGE ROAD	1032-01-21	VARIES	1969
58TH ROAD	TOWN ROAD V. B P.62	49.50'	1843

NOTE: EXISTING RIGHT-OF-WAY FOR STH 11 IS MEASURED IN METERS PER PROJECT 1320-03-20

NOTE: SEE CONTROLLED ACCESS PLAT 1320-00-27

A Concrete Monument w/ An Aluminum Cap
Y 175696.15
X 594117.87

A Cast Iron Monument w/ A Brass Cap
Y 175650.19
X 596615.74

SEE TPP 1030-24-20-4.04

DETAIL NOT TO SCALE

STA 59+50.71 58TH ROAD = STA 5762+15.17 E FR NORTH

STA 50+64.34 58TH ROAD

STA 75+62.64 58TH ROAD

TLE FOR BUILDING REMOVAL

DETAIL NOT TO SCALE

SEE TPP 1030-24-20-4.02

STA 144+67.93 STH 11 = STA 5754+78.75 E FR NORTH = STA 3759+53.78 E FR SOUTH

STA 160+06.27 STH 11

PT 3758+62.03

L 59.59'
R 818.51'
LCH 59.58'
LCB N 04°52'37" W

VILLAGE

OF

MT. PLEASANT

NW1/4-NW1/4

NE1/4-NW1/4

NW1/4-NE1/4

SOO LINE RAILROAD CO.

℄ STH 11 1927

℄ STH 11

℄ EAST FRONTAGE ROAD

58TH ROAD

TLE SLOPES

TLE SLOPES & DRIVE

NO ACCESS PER PROJ. 1320-03-20

1 AP PER PROJ. 1320-03-20

PARCEL 1 CSM 1085 V 3 P 202

PARCEL 2 CSM 1085 V 3 P 202

PI 160+50.00 Y=175139.27 X=596663.94

PI 167+51.97 Y=175221.76 X=597361.04

R-21-E T-3-N R-22-E

SHEET LOCATION

YORKVILLE R-21-E MT. PLEASANT R-22-E

RACINE COUNTY

(100) NO RECORDED EASEMENT PCL. 8

(103) V 485 P 507 DOC. 544359 PCL. 14

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF DOCUMENT 2237987, OF TRANSPORTATION PROJECT PLATS IN THE RACINE COUNTY REGISTER OF DEEDS.

NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, RACINE COUNTY ZONE, NAD83 (97) ADJUSTMENT AND ARE REFERENCED TO GPS HARN POINTS YORKVILLE EAST, RAYMOND SOUTH, AND PARIS EAST. ALL DISTANCES ARE GROUND LENGTH.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL ¾" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT, BY SE REGION DOT SURVEY.

FOR THE LATEST ACCESS / DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

GN

SCALE, FEET
0 100 200

EAST FRONTAGE ROAD SOUTH
PI STA 3755+01.36
Y 174433.03
X 595156.36
PC STA 3750+73.45
PT STA 3758+62.03
DELTA 55°12'04"
D 7°00'00"
L 788.58'
R 818.51'
LCH 758.44'
LCB N 20°38'16" E

A Cast Iron Monument w/ A Brass Cap
Y 172998.34
X 596640.31

THIS IS A COPY, THE ORIGINAL DOCUMENT IS AT THE RACINE COUNTY REGISTER OF DEEDS

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES, THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENTOF TRANSPORTATION.

DATE: 9-6-2011 — Name, Title

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 9-6-2011 — Paul Krause, Name

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1030-24-20-4.03
AMENDMENT NO: 1

DOCUMENT # 2294369
RACINE COUNTY REGISTER OF DEEDS
September 15, 2011 12:00 PM
TYSON FETTES
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: $30.00
Pages: 1
Vol 1 Pg 200

FILE NAME : J:\projects\d2_r_10302494\20\040403A1_rp.dgn PLOT DATE : 02-SEP-2011 09:36 PLOT BY : dotphk PLOT NAME : PLOT SCALE : 100.000000:1.000000
CONST. 1030-24-70 STH 11 R/W 1030-24-20 4.03A1

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF DOCUMENT 2237987, OF TRANSPORTATION PROJECT PLATS IN THE RACINE COUNTY REGISTER OF DEEDS.

NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, RACINE COUNTY ZONE, NAD83 (97) ADJUSTMENT AND ARE REFERENCED TO GPS HARN POINTS YORKVILLE EAST, RAYMOND SOUTH, AND PARIS EAST. ALL DISTANCES ARE GROUND LENGTH.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL ¾" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT, BY SE REGION DOT SURVEY.

FOR THE LATEST ACCESS / DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

HIGHWAY	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
I-94	1101-1(3)	VARIES	1956
I-94	2382	VARIES	1935
58TH ROAD	TOWN ROAD V. B P.62	49.50'	1843
LOUIS SORENSON ROAD	RACINE & BURLINGTON TERRITORIAL ROAD	66'	1846

(100) V. 2236 P. 810 DOC. 1411771 PCL. 20
V. 1766 P. 752 DOC. 1176978 PCL. 18
V. 2236 P. 804 DOC. 1411769 PCL. 18
V. 2236 P. 807 DOC. 1411770 PCL. 19
(103) V. 2236 P. 807 DOC. 1411770 PCL. 19
V. 2236 P. 804 DOC. 1411769 PCL. 18
V. 2236 P. 810 DOC. 1411771 PCL. 20

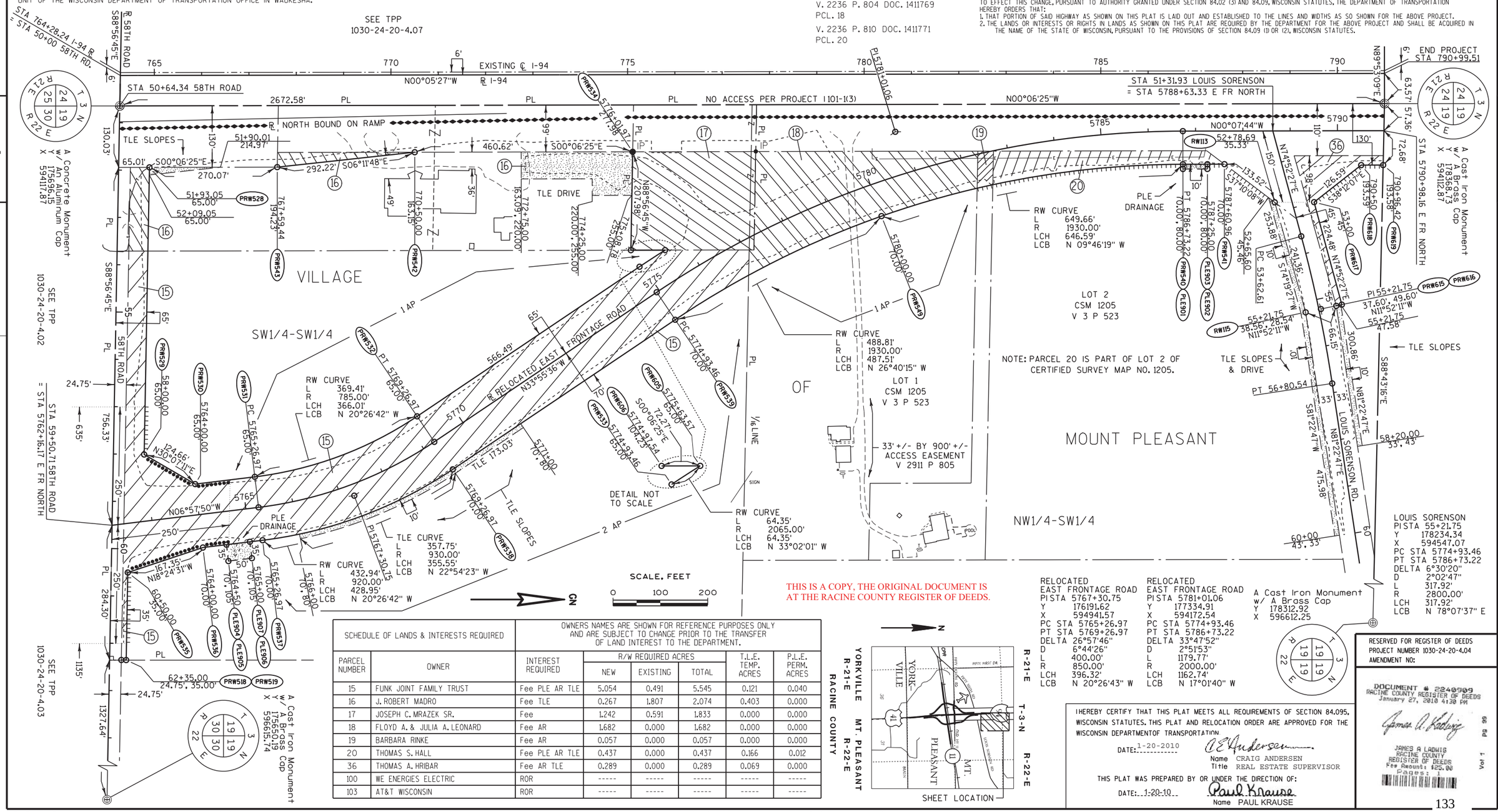
TRANSPORTATION PROJECT PLAT NO: 1030-24-20 - 4.04

THAT PART OF LOT 1 AND LOT 2 OF CSM 1205, LOCATED IN AND INCLUDING THAT PART OF THE NW1/4 OF THE SW1/4, AND THAT PART OF THE SW1/4 OF THE SW1/4 OF SECTION 19, TOWN 3 NORTH, RANGE 22 EAST, VILLAGE OF MT. PLEASANT, RACINE COUNTY, WISCONSIN.

RELOCATION ORDER IH-94/STH 11 RACINE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.



SCHEDULE OF LANDS & INTERESTS REQUIRED			OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.				
			R/W REQUIRED ACRES			T.L.E.	P.L.E.
PARCEL NUMBER	OWNER	INTEREST REQUIRED	NEW	EXISTING	TOTAL	TEMP. ACRES	PERM. ACRES
15	FUNK JOINT FAMILY TRUST	Fee PLE AR TLE	5.054	0.491	5.545	0.121	0.040
16	J. ROBERT MADRO	Fee TLE	0.267	1.807	2.074	0.403	0.000
17	JOSEPH C. MRAZEK SR.	Fee	1.242	0.591	1.833	0.000	0.000
18	FLOYD A. & JULIA A. LEONARD	Fee AR	1.682	0.000	1.682	0.000	0.000
19	BARBARA RINKE	Fee AR	0.057	0.000	0.057	0.000	0.000
20	THOMAS S. HALL	Fee PLE AR TLE	0.437	0.000	0.437	0.166	0.012
36	THOMAS A. HRIBAR	Fee AR TLE	0.289	0.000	0.289	0.069	0.000
100	WE ENERGIES ELECTRIC	ROR	-----	-----	-----	-----	-----
103	AT&T WISCONSIN	ROR	-----	-----	-----	-----	-----

THIS IS A COPY, THE ORIGINAL DOCUMENT IS AT THE RACINE COUNTY REGISTER OF DEEDS.

RELOCATED EAST FRONTAGE ROAD
PI STA 5767+30.75
Y 176191.62
X 594941.57
PC STA 5765+26.97
PT STA 5769+26.97
DELTA 26°57'46"
D 6°44'26"
L 400.00'
R 850.00'
LCH 396.32'
LCB N 20°26'43" W

RELOCATED EAST FRONTAGE ROAD
PI STA 5781+01.06
Y 177334.91
X 594172.54
PC STA 5774+93.46
PT STA 5786+73.22
DELTA 33°47'52"
D 2°51'53"
L 1179.77'
R 2000.00'
LCH 1162.74'
LCB N 17°01'40" W

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENTOF TRANSPORTATION.

DATE: 1-20-2010
A E Andersen
Name CRAIG ANDERSEN
Title REAL ESTATE SUPERVISOR

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:
DATE: 1-20-10
Paul Krause
Name PAUL KRAUSE

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1030-24-20-4.04
AMENDMENT NO:

DOCUMENT # 2240909
RACINE COUNTY REGISTER OF DEEDS
January 27, 2010 4:30 PM
James A. Ladwig
JAMES A LADWIG
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: $25.00
Pages: 1
Vol 1 Pg 96

FILE NAME : j:\projects\d2_r_10302494\20\040404_rp.dgn PLOT DATE : 19-JAN-2010 17:31 PLOT BY : dotphk PLOT NAME : PLOT SCALE : 100.000000:1.000000
CONST. 1030-24-70 STH 11 R/W 1030-24-20 4.04

TRANSPORTATION PROJECT PLAT NO: 1030-24-20 - 4.05 AMENDMENT NO: 1

ADDS PARCEL 125 AND AMENDS PARCELS 8 & 100 OF TPP 1030-24-20-4.05, RECORDED AS DOCUMENT 2240910.

THAT PART OF THE NE1/4 OF THE NE1/4, THE SE1/4 OF THE NE1/4, AND THE NW1/4 OF THE NE1/4, SECTION 25, TOWN 3 NORTH, RANGE 21 EAST, TOWN OF YORKVILLE, RACINE COUNTY, WISCONSIN.

RELOCATION ORDER IH-94/STH 11 RACINE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

A Cast Iron Monument
w/ A Brass Cap
Y 173056.26
X 591480.34

SCHEDULE OF LANDS & INTERESTS REQUIRED			OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.			
PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED ACRES			T.L.E. TEMP. ACRES
			NEW	EXISTING	TOTAL	
3	DONALD B. & CAROL LEE	Fee AR	0.042	0.000	0.042	0.000
8	SOO LINE RAILROAD COMPANY	HE TLE	1.249	0.000	1.249	0.907
21	ROBERT L. JR. & ANGELA S. KRENCISZ	Fee AR TLE	0.094	0.000	0.094	0.030
22	JEFFREY D. & BEVERLY L. LEE	Fee AR TLE	0.092	0.000	0.092	0.056
23	MARIA C. VARGAS	Fee AR TLE	0.621	0.000	0.621	0.074
24	YORKVILLE REAL ESTATE ASSC. LLC	Fee AR	0.531	TLE	0.531	0.000
25	13901-58TH ROAD LLC	Fee AR	3.767	0.511	4.278	0.000
125	13901-58TH ROAD LLC	TLE	0.000	0.000	0.000	0.168
100	WE ENERGIES ELECTRIC	ROR	-----	-----	-----	-----
101	WE ENERGIES GAS	ROR	-----	-----	-----	-----
103	AT&T WISCONSIN	ROR	-----	-----	-----	-----

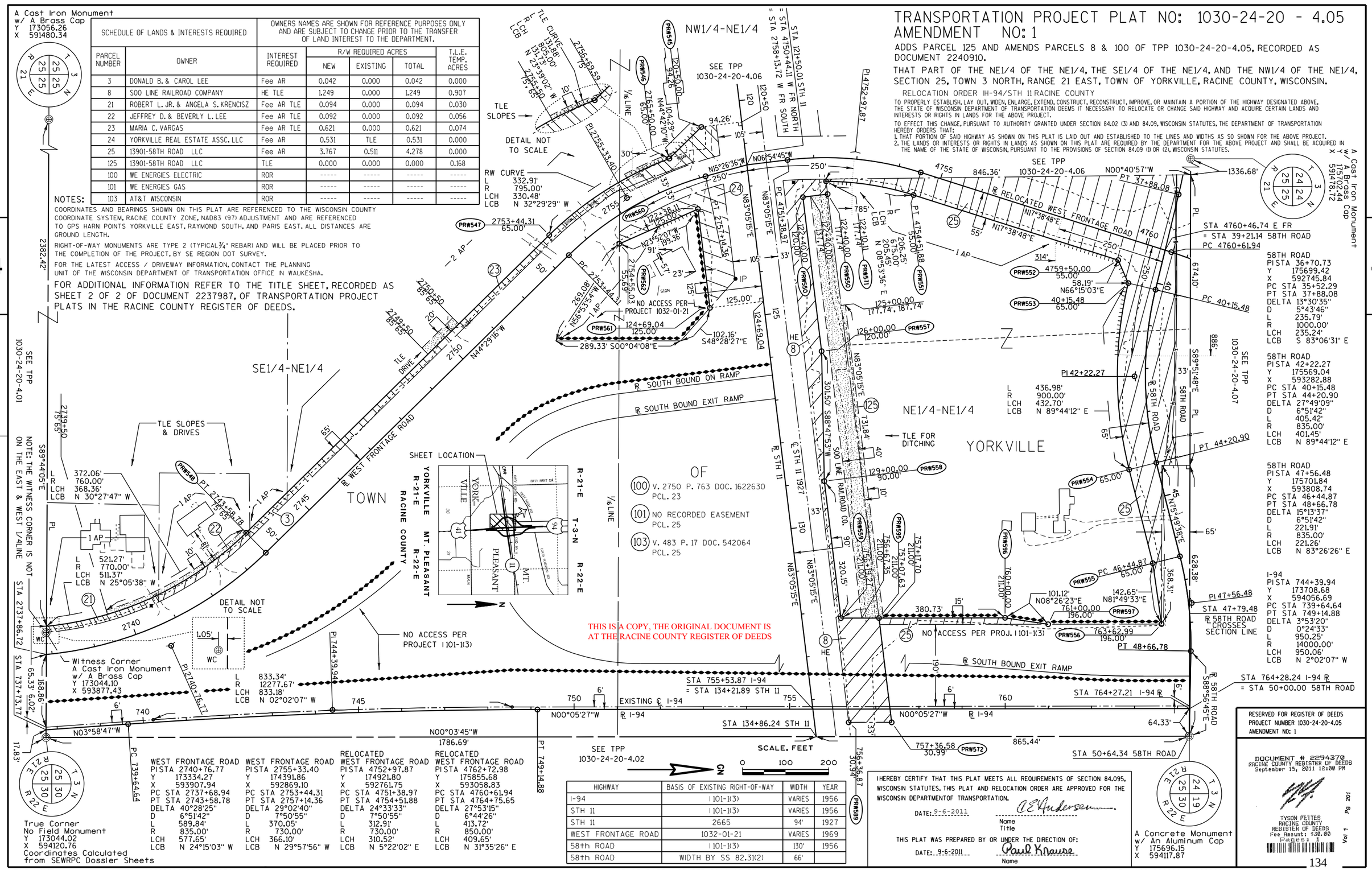
NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, RACINE COUNTY ZONE, NAD83 (97) ADJUSTMENT AND ARE REFERENCED TO GPS HARN POINTS YORKVILLE EAST, RAYMOND SOUTH, AND PARIS EAST. ALL DISTANCES ARE GROUND LENGTH.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT, BY SE REGION DOT SURVEY.

FOR THE LATEST ACCESS / DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF DOCUMENT 2237987, OF TRANSPORTATION PROJECT PLATS IN THE RACINE COUNTY REGISTER OF DEEDS.



HIGHWAY	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
I-94	1101-1(3)	VARIES	1956
STH 11	1101-1(3)	VARIES	1956
STH 11	2665	94'	1927
WEST FRONTAGE ROAD	1032-01-21	VARIES	1969
58th ROAD	1101-1(3)	130'	1956
58th ROAD	WIDTH BY SS 82.31(2)	66'	

WEST FRONTAGE ROAD
PI STA 2740+76.77
Y 173334.27
X 593907.94
PC STA 2737+68.94
PT STA 2743+58.78
DELTA 40°28'25"
D 6°51'42"
L 589.84'
R 835.00'
LCH 577.65'
LCB N 24°15'03" W

WEST FRONTAGE ROAD
PI STA 2755+33.40
Y 174391.86
X 592869.10
PC STA 2753+44.31
PT STA 2757+14.36
DELTA 29°02'40"
D 7°50'55"
L 370.05'
R 730.00'
LCH 366.10'
LCB N 29°57'56" W

RELOCATED WEST FRONTAGE ROAD
PI STA 4752+97.87
Y 174921.80
X 592761.75
PC STA 4751+38.97
PT STA 4754+51.88
DELTA 24°33'33"
D 7°50'55"
L 312.91'
R 730.00'
LCH 310.52'
LCB N 5°22'02" E

RELOCATED WEST FRONTAGE ROAD
PI STA 4762+72.98
Y 175855.68
X 593058.83
PC STA 4760+61.94
PT STA 4764+75.65
DELTA 27°53'15"
D 6°44'26"
L 413.72'
R 850.00'
LCH 409.65'
LCB N 31°35'26" E

58TH ROAD
PI STA 36+70.73
Y 175699.42
X 592745.84
PC STA 35+52.29
PT STA 37+88.08
DELTA 13°30'35"
D 5°43'46"
L 235.79'
R 1000.00'
LCH 235.24'
LCB S 83°06'31" E

58TH ROAD
PI STA 42+22.27
Y 175569.04
X 593282.88
PC STA 40+15.48
PT STA 44+20.90
DELTA 27°49'09"
D 6°51'42"
L 405.42'
R 835.00'
LCH 401.45'
LCB N 89°44'12" E

58TH ROAD
PI STA 47+56.48
Y 175701.84
X 593808.74
PC STA 46+44.87
PT STA 48+66.78
DELTA 15°13'37"
D 6°51'42"
L 221.91'
R 835.00'
LCH 221.26'
LCB N 83°26'26" E

I-94
PI STA 744+39.94
Y 173708.68
X 594056.69
PC STA 739+64.64
PT STA 749+14.88
DELTA 3°53'20"
D 0°24'33"
L 950.25'
R 14000.00'
LCH 950.06'
LCB N 2°02'07" W

STA 760+00.00 = STA 2737+86.72
STA 737+13.17
STA 739+64.64
STA 744+39.94
STA 749+14.88
STA 755+53.87 I-94 = STA 134+21.89 STH 11
STA 134+86.24 STH 11
STA 764+28.24 I-94 ℞ = STA 50+00.00 58TH ROAD
STA 764+27.21 I-94 ℞
STA 50+64.34 58TH ROAD
STA 4760+46.74 E FR = STA 39+21.14 58TH ROAD PC 4760+61.94

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENTOF TRANSPORTATION.

DATE: 9-6-2011 — Name — Title

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 9-6-2011 — Name

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1030-24-20-4.05
AMENDMENT NO: 1

DOCUMENT # 2294370
RACINE COUNTY REGISTER OF DEEDS
September 19, 2011 12:00 PM
TYSON FEITES
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: $30.00
Pages: 1
Vol 1 Pg 201

FILE NAME : J:\projects\d2_r_10302494\20\040405A1_rp.dgn PLOT DATE : 02-SEP-2011 09:37 PLOT BY : dotphk PLOT NAME : PLOT SCALE : 100.000000:1.000000
CONST. 1030-24-70 STH 11 R/W 1030-24-20 4.05A1

TRANSPORTATION PROJECT PLAT NO: 1030-24-20 - 4.06
AMENDMENT NO: 1

ADDS PARCELS 123 & 135 AND AMENDS PARCELS 8 & 100 OF TPP 1030-24-20-4.06, RECORDED AS DOCUMENT 2240911.

THAT PART OF THE NW1/4 OF THE NE1/4, THE SW1/4 OF THE NE1/4, THE NE1/4 OF THE NW1/4, AND THE SE1/4 OF THE NW1/4, SECTION 25, TOWN 3 NORTH, RANGE 21 EAST, TOWN OF YORKVILLE, RACINE COUNTY, WISCONSIN.

RELOCATION ORDER IH-94/STH 11 RACINE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

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NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, RACINE COUNTY ZONE, NAD83 (97) ADJUSTMENT AND ARE REFERENCED TO GPS HARN POINTS YORKVILLE EAST, RAYMOND SOUTH, AND PARIS EAST. ALL DISTANCES ARE GROUND LENGTH.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT, BY SE REGION DOT SURVEY.

FOR THE LATEST ACCESS / DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

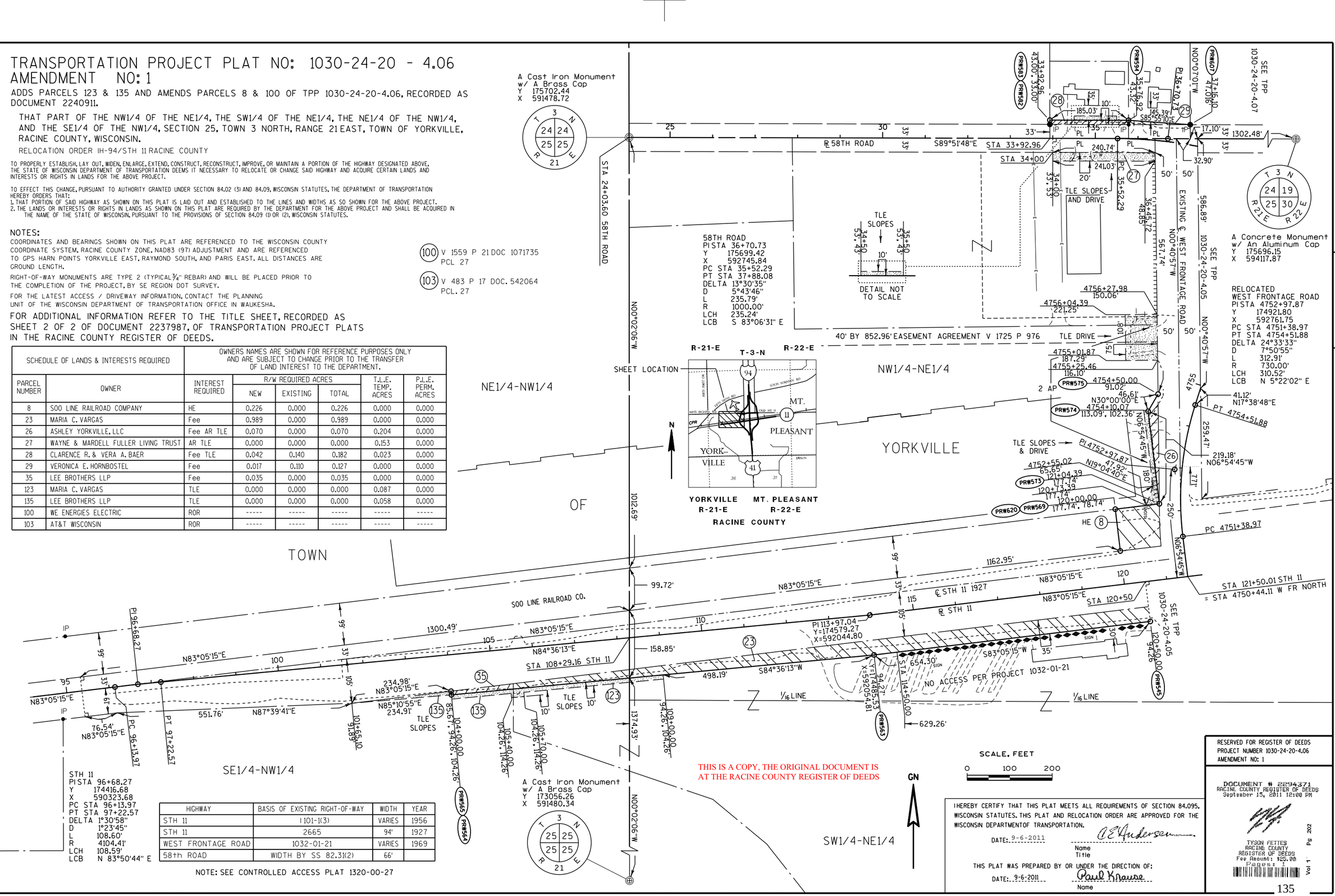
FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF DOCUMENT 2237987, OF TRANSPORTATION PROJECT PLATS IN THE RACINE COUNTY REGISTER OF DEEDS.

SCHEDULE OF LANDS & INTERESTS REQUIRED		OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.					
			R/W REQUIRED ACRES			T.L.E.	P.L.E.
PARCEL NUMBER	OWNER	INTEREST REQUIRED	NEW	EXISTING	TOTAL	TEMP. ACRES	PERM. ACRES
8	SOO LINE RAILROAD COMPANY	HE	0.226	0.000	0.226	0.000	0.000
23	MARIA C. VARGAS	Fee	0.989	0.000	0.989	0.000	0.000
26	ASHLEY YORKVILLE, LLC	Fee AR TLE	0.070	0.000	0.070	0.204	0.000
27	WAYNE & MARDELL FULLER LIVING TRUST	AR TLE	0.000	0.000	0.000	0.153	0.000
28	CLARENCE R. & VERA A. BAER	Fee TLE	0.042	0.140	0.182	0.023	0.000
29	VERONICA E. HORNBOSTEL	Fee	0.017	0.110	0.127	0.000	0.000
35	LEE BROTHERS LLP	Fee	0.035	0.000	0.035	0.000	0.000
123	MARIA C. VARGAS	TLE	0.000	0.000	0.000	0.087	0.000
135	LEE BROTHERS LLP	TLE	0.000	0.000	0.000	0.058	0.000
100	WE ENERGIES ELECTRIC	ROR	-----	-----	-----	-----	-----
103	AT&T WISCONSIN	ROR	-----	-----	-----	-----	-----

(100) V 1559 P 21 DOC 1071735 PCL 27

(103) V 483 P 17 DOC. 542064 PCL. 27

A Cast Iron Monument w/ A Brass Cap
Y 175702.44
X 591478.72



HIGHWAY	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
STH 11	1101-1(3)	VARIES	1956
STH 11	2665	94'	1927
WEST FRONTAGE ROAD	1032-01-21	VARIES	1969
58th ROAD	WIDTH BY SS 82.31(2)	66'	

NOTE: SEE CONTROLLED ACCESS PLAT 1320-00-27

THIS IS A COPY, THE ORIGINAL DOCUMENT IS AT THE RACINE COUNTY REGISTER OF DEEDS

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENTOF TRANSPORTATION.

DATE: 9-6-2011 — A E Kindersen — Name, Title

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 9-6-2011 — Paul Krause — Name

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1030-24-20-4.06
AMENDMENT NO: 1

DOCUMENT # 2294371
RACINE COUNTY REGISTER OF DEEDS
September 15, 2011 12:00 PM
TYSON FETTES
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: $25.00
Pages: 1
Vol 1 Pg 202

FILE NAME : J:\projects\d2_r_10302494\20\040406A1_rp.dgn PLOT DATE : 02-SEP-2011 09:38 PLOT BY : dotphk PLOT NAME : PLOT SCALE : 100.000000:1.000000
CONST. 1030-24-70 STH 11 R/W 1030-24-20 4.06A1

TRANSPORTATION PROJECT PLAT NO: 1030-24-20 - 4.07 AMENDMENT NO: 1

ADDS PARCEL 134 OF TPP 1030-24-20-4.07, RECORDED AS DOCUMENT 2240912.

THAT PART OF PARCELS 1, 2, AND 3 OF CSM 1149, LOCATED IN AND INCLUDING THAT PART OF THE SE1/4 OF THE SE1/4, AND THE NE1/4 OF THE SE1/4, SECTION 24, TOWN 3 NORTH, RANGE 21 EAST, TOWN OF YORKVILLE, RACINE COUNTY, WISCONSIN.

RELOCATION ORDER IH-94/STH 11 RACINE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

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FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF DOCUMENT 2237987, OF TRANSPORTATION PROJECT PLATS IN THE RACINE COUNTY REGISTER OF DEEDS.

SCHEDULE OF LANDS & INTERESTS REQUIRED		OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.					
PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED ACRES			T.L.E. TEMP. ACRES	P.L.E. PERM. ACRES
			NEW	EXISTING	TOTAL		
30	KEVIN R. HAIGH	Fee AR TLE	0.121	0.157	0.278	0.030	0.000
31	MIKE BENBEN INC.	Fee AR TLE	3.853	0.367	4.220	0.143	0.000
32	SYLVANIA AIRPORT, LLC	AR TLE	0.000	0.000	0.000	0.044	0.000
33	ROBERT B. MCKAY	AR TLE	0.000	0.000	0.000	0.064	0.000
34	D'ACQUISTO - REV. LIVING TRUST	AR TLE	0.000	0.000	0.000	0.035	0.000
134	D'ACQUISTO - REV. LIVING TRUST	Fee	0.020	0.102	0.122	0.000	0.000
100	WE ENERGIES ELECTRIC	ROR	-----	-----	-----	-----	-----

HIGHWAY	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
I-94	I 101-1(3)	VARIES	1956
I-94	2382	VARIES	1935
58TH ROAD	I 101-1(3)	130'	1956
58TH ROAD	WIDTH BY SS 82.31(2)	66'	
56TH ROAD	RACINE & BURLINGTON TERRITORIAL ROAD	66'	1846

NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, RACINE COUNTY ZONE, NAD83 (97) ADJUSTMENT AND ARE REFERENCED TO GPS HARN POINTS YORKVILLE EAST, RAYMOND SOUTH, AND PARIS EAST. ALL DISTANCES ARE GROUND LENGTH.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT, BY SE REGION DOT SURVEY.

FOR THE LATEST ACCESS / DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

SCALE, FEET 0 100 200

SEE TPP 1030-24-20-4.04

SHEET LOCATION

YORKVILLE MT. PLEASANT R-21-E R-22-E T-3-N RACINE COUNTY

THIS IS A COPY, THE ORIGINAL DOCUMENT IS AT THE RACINE COUNTY REGISTER OF DEEDS.

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENTOF TRANSPORTATION.

DATE: 6-9-2011 — Name / Title

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 6-7-2011 — Name PAUL KRAUSE

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1030-24-20-4.07
AMENDMENT NO: 1

DOCUMENT # 2288421
RACINE COUNTY REGISTER OF DEEDS
July 07, 2011 7:55 AM
TRACEY L FEICHTNER
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: $25.00
Pages: 1
Vol 1 Pg 186

FILE NAME : J:\projects\d2_r_10302494\20\040407A1_rp.dgn PLOT DATE : 06-JUN-2011 13:38 PLOT BY : dotphk PLOT NAME : PLOT SCALE : 100.000000:1.000000
CONST. 1030-24-70 STH 11 R/W 1030-24-20 4.07A1

BEGIN PROJECT
I.D. 1030-24-74
STA. 2737+00
= MATCH PROJECT
1030-24-78

LEGEND
PERMITTED WETLAND IMPACTS

KRENCISZ
LEE
LEE
DONALD B. & CAROL E. LEE
VA

EXISTING DETENTION POND OUTLET
PVC PIPE WITH CONCRETE
APRON ENDWALLS;
DO NOT DISTURB

POSSIBLE DRAINTILE: DRAINTILE EXPLORATION REQ'D
REMOVE AND REPLACE DRAINTILE WITHIN R/W LIMITS
SEE CONSTRUCTION DETAIL

STA 2744+46, LT
CONSTRUCT FE
1-18" CP REQ'D

W3-2A
0.008 AC
WETLAND
BOUNDARY

MATCHLINE 2747+00

STA 2740+70, LT
CONSTRUCT PE
1-18" CP REQ'D

STA 2742+50, LT
CONSTRUCT PE
1-18" CP REQ'D

IH 94 SB
IH 94 NB
EXIST R/W
PROP R/W
TLE
WEST FRONTAGE ROAD
SB ON RAMP
R/L WEST
FRONTAGE
ROAD
R/L SB ON RAMP
R/L IH 94
ENCROACHMENT
BUS SHELTER
SLOPE
INTERCEPT
W-3-2
0.137 AC
WETLAND
BOUNDARY
STA 2746+90
1-24 X 38" CPRCHE REQ'D
3.93° RHF
POSSIBLE DRAINTILE: DRAINTILE EXPLORATION REQ'D
REMOVE AND REPLACE DRAINTILE WITHIN R/W LIMITS
SEE CONSTRUCTION DETAIL
LEE

BENCHMARK

NO.	LOCATION	DESCRIPTION	ELEVATION
72663	STA 726+63.11 84.17' RT (94 R)	CP BM TOP SE BOLT E LEG SIGN POST BASE CIS/EXIT 335 SIGN E SIDE NB 194	745.336

BEGIN PROJECT
I.D. 1030-24-74
STA. 2737+00

EXISTING PROFILE AT ℄
WEST FRONTAGE ROAD
FINISHED PROFILE AT ℄
WEST FRONTAGE ROAD
+0.56 %
VCL 300.00
K = 751.38
+0.96 %
VPOT STA 2737+00.000
VPOT EL747.80
VPC STA 2740+50.000
VPC EL749.76
VPI STA 2742+00.000
VPI EL750.60
VPT STA 2743+50.000
VPT EL752.04
STA 2746+90
24" X 38" CPRCHE REQ'D

EXISTING PROFILE ELEVATIONS
747.45 747.80 747.94 748.08 748.22 748.36 748.50 748.64 748.78 748.92 749.06 749.20 749.34 749.48 749.62 749.76 749.91 750.06 750.22 750.39 750.56 750.75 750.94 751.15 751.36 751.57 751.80 752.04 752.28 752.52 752.76 753.00 753.24 753.48 753.71 753.95 754.19 754.43 754.67 754.91 755.15 755.39

FINISHED PROFILE ELEVATIONS
747.59 747.87 748.26 748.67 749.13 749.57 749.97 750.50 750.96 751.50 751.89 752.26 752.63 752.94 753.13 753.27 753.34 753.72 753.84 754.11 754.24 754.29 754.30 754.55 754.32 754.31 754.28 754.25 754.20 754.26 754.34 754.23 754.25 754.15 754.26 754.07 754.22 754.30 754.30 754.39

765 760 755 750 745 740 735 730

2738 2740 2742 2744 2746

PROJECT NO: 1030-24-74	HWY: IH 94	COUNTY: RACINE	PLAN & PROFILE: WEST FRONTAGE ROAD	SHEET 137 E

FILE NAME : Z:\Racine\CADDS\13\13W\CDS\050101_pp.dgn
PLOT DATE : 7/27/2017
PLOT BY : cory.ihde
PLOT NAME : $FILE$
PLOT SCALE : 1:100
WISDOT/CADDS SHEET 40

LEGEND

PERMITTED WETLAND IMPACTS

EXISTING DETENTION POND OUTLET PVC PIPE WITH CONCRETE APRON ENDWALLS DO NOT DISTURB

STA 2750+16, LT
CONSTRUCT CE
1-18" CP REQ'D

STA 2754+32, LT
CONSTRUCT CE
1-18" CP REQ'D

STA 2755+66
BEGIN TRANSITION
TO STH 11

STA 121+50.01 STH 11
= STA 2758+13.72 W FR
= STA 4750+44.11 W FR
EXCLUSION TO ℄ 1030-24-71

STA 2757+86, 45' LT
1-24" CPRC CL IV
EXTENSION REQ'D

STA 2757+99
MATCH EXISTING
STH 11 PAVEMENT

VARGAS

LEE

YORKVILLE REAL ESTATE

SOO LINE RAILROAD CO.

TLE

ENCROACHMENT SIGN

ENCROACHMENT SIGN

PROP R/W

EXIST R/W

MATCHLINE 2147+00

WEST FRONTAGE ROAD

R/L WEST FRONTAGE ROAD

R/L STH 11

STH 11

W-3-2
0.137 AC

WETLAND BOUNDARY

SLOPE INTERCEPT

POSSIBLE DRAINTILE: DRAINTILE EXPLORATION REQ'D
REMOVE AND REPLACE DRAINTILE WITHIN R/W LIMITS
SEE CONSTRUCTION DETAIL

STA 2754+38, RT
CONSTRUCT PE
1-18" CP REQ'D

STA 2757+73, 28' RT
1-24" CPRC CL IV
EXTENSION REQ'D

W-27
0.013 AC

CAUTION

RIPRAP

2748 2750 2752 2754 2756 2758

FINISHED PROFILE AT ℄ WEST FRONTAGE ROAD

EXISTING PROFILE AT ℄ WEST FRONTAGE ROAD

+0.96 %

+0.50 %

-0.58 %

VPC STA 2752+75.000
VPC EL760.90

VPI STA 2754+00.000
VPI EL762.10

K = 545.45
VCL 250.00

VPT STA 2755+25.000
VPT EL762.73

VPC STA 2755+67.950
VPC EL762.94

VPI STA 2756+17.950
VPI EL763.19

2756+14.295
763.06

K = 92.69
VCL 100.00

VPC STA 2756+72.110
VPC EL762.88

VPT STA 2756+67.950
VPT EL762.90

VCL 130.00
K = 95.35

2757+27.301
762.72

VPI STA 2757+37.110
VPI EL762.50

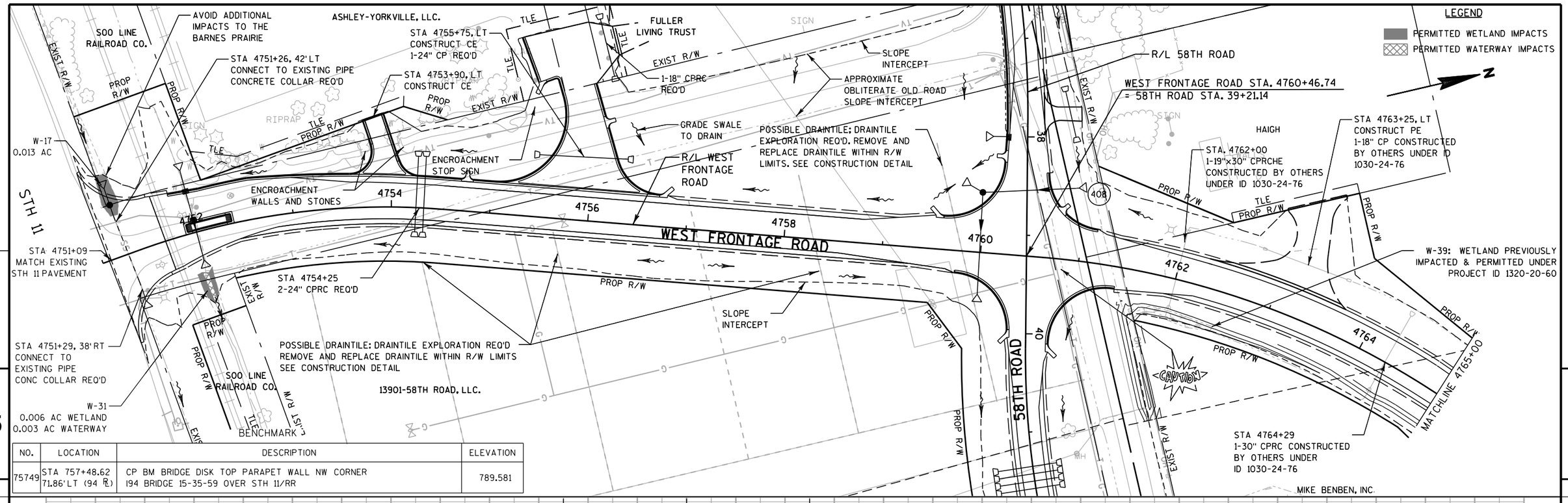
VPT STA 2758+02.110
VPT EL763.01

STA 2757+73.28
EXISTING 1 - 24"
CPRC CL IV

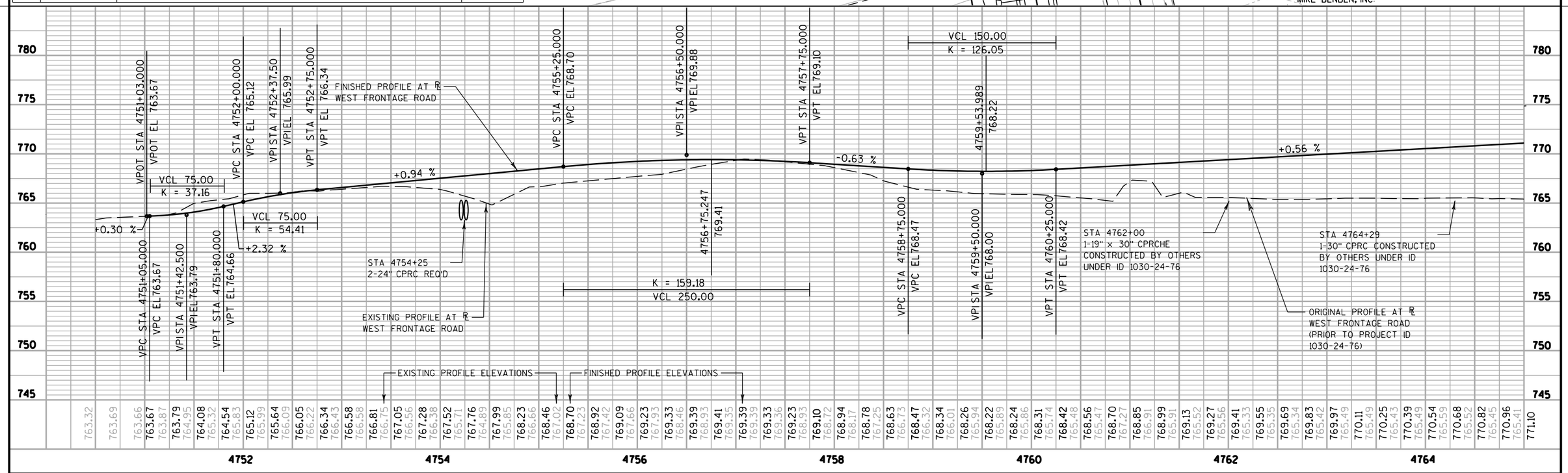
EXISTING PROFILE ELEVATIONS

FINISHED PROFILE ELEVATIONS

| | | |



NO.	LOCATION	DESCRIPTION	ELEVATION
75749	STA 757+48.62 71.86'LT (94 ℄)	CP BM BRIDGE DISK TOP PARAPET WALL NW CORNER 194 BRIDGE 15-35-59 OVER STH 11/RR	789.581



PROJECT NO: 1030-24-74	HWY: IH 94	COUNTY: RACINE	PLAN & PROFILE: WEST FRONTAGE ROAD	SHEET 139	E

LEGEND

PERMITTED WETLAND IMPACTS

N

MATCHLINE 4765+00

PROP R/W

STA 4766+00
1-34" X 53" CPRCHE
CONSTRUCTED BY OTHERS
UNDER ID 1030-24-76

SLOPE INTERCEPT

4766

4768

4770

4772

4774

4776

4778

BURIED TILE

WEST FRONTAGE ROAD

STA 4765+00, RT TO STA 4766+00, RT
BERM CONSTRUCTED BY OTHERS UNDER
ID 1320-20-60 TO REMAIN. CONTRACTOR
SHALL RECONSTRUCT IF DISTURBED.

STA 4765+15, STA 4765+54 AND STA 4768+31, RT BURIED DRAINTILE
DISCOVERD BY OTHERS UNDER ID 1030-24-76. DRAINTILE EXPLORATION
REQUIRED. VERIFY DRAINTILE SIZE AND REPLACE PER CONSTRUCTION
DETAIL PIPE UNDERDRAIN CONFIGURATION.

R/L WEST FRONTAGE ROAD

MIKE BENBEN, INC.

STA 4773+25, LT
CONSTRUCT PE

TLE

W-43
0.102 AC

ENCROACHMENT
STOP SIGN

CAUTION

W-45
0.023 AC

STA 4777+25, LT
REMOVE PE

EXIST R/W

MATCHLINE 4779+00

W-44
0.115 AC

STA 4777+50
1-30" CPRC REQ'D

IH 94 SB

IH 94 NB

778

R/L IH 94

776

EXIST R/W

ENCROACHMENT
STOP SIGN

5

5

790
785
780
775
770
765
760
755

VPC STA 4772+20.000
VPC EL 775.15

VPI STA 4773+70.000
VPI EL 776.00

VPT STA 4775+20.000
VPT EL 774.81

+0.56 %

+0.56 %

-0.80 %

FINISHED PROFILE AT ℄
WEST FRONTAGE ROAD

EXISTING PROFILE AT ℄
WEST FRONTAGE ROAD

4773+44.381
775.91

K = 220.78
VCL 300.00

STA 4766+00
1-34" X 53" CPRCHE
CONSTRUCTED BY OTHERS
UNDER ID 1030-24-76

STA 4777+50
1-30" CPRC REQ'D

EXISTING PROFILE ELEVATIONS

FINISHED PROFILE ELEVATIONS

4766	4768	4770	4772	4774	4776	4778
765.52	770.82 / 765.45	770.96 / 765.41	771.10 / 765.27	771.24 / 765.22	771.38 / 765.16	771.52 / 765.17
771.66 / 765.13	771.80 / 765.32	771.94 / 765.50	772.08 / 765.62	772.23 / 765.71	772.37 / 765.88	772.51 / 765.76
772.65 / 765.65	772.79 / 765.65	772.93 / 765.79	773.07 / 765.92	773.21 / 765.95	773.35 / 765.94	773.49 / 766.09
773.63 / 766.34	773.77 / 766.15	773.92 / 766.20	774.06 / 766.33	774.20 / 766.64	774.34 / 766.77	774.48 / 766.98
774.62 / 767.17	774.76 / 767.47	774.90 / 767.76	775.04 / 768.08	775.18 / 768.49	775.30 / 768.72	775.40 / 768.91
775.46 / 769.69	775.50 / 770.20	775.50 / 770.54	775.48 / 769.57	775.44 / 769.52	775.36 / 769.20	775.25 / 768.92
775.12 / 768.54	774.96 / 768.36	774.77 / 768.76	774.57 / 770.02	774.37 / 770.86	774.17 / 770.96	773.97 / 770.94
773.77 / 770.91	773.57 / 771.16	773.37 / 771.35	773.18 / 771.32	772.98 / 771.20	772.78 / 770.95	772.58 / 770.93
772.38 / 770.81	772.18 / 770.65	771.98 / 770.45	771.78 / 770.31	771.59 / 770.25	771.39	

PROJECT NO: 1030-24-74	HWY: IH 94	COUNTY: RACINE	PLAN & PROFILE: WEST FRONTAGE ROAD	SHEET 140	E

FILE NAME : Z:\Racine\CADDS\13\13W\CDS\050104_pp.dgn PLOT DATE : 7/27/2017 PLOT BY : cory.ihde PLOT NAME : $FILE$ PLOT SCALE : 1:100

LEGEND

PERMITTED WETLAND IMPACTS

SYLVANIA AIRPORT, LLC

MCKAY

D'ACQUISTO REV. LIVING TRUST

STA 4781+70, LT
CONSTRUCT PE

10' - 18" SSPRC REO'D
CONNECT TO EXIST 18" CP
CONCRETE COLLAR REO'D

CAUTION

W-46
0.022 AC

R/L WEST FRONTAGE ROAD

SLOPE INTERCEPT

EXIST R/W

TLE

56TH ROAD

BM 78837

SEPTIC

MATCHLINE 4779+00

4780 4782 4784

WEST FRONTAGE ROAD

END PROJECT
I.D. 1030-24-74
STA. 4785+00
= MATCH PROJECT
1033-02-78

SLOPE INTERCEPT

STA 4779+25, LT
CONSTRUCT PE

IH 94 SB

STA 4782+00
1 - 29"X45" SSPRCHE REO'D

STA 4784+25, LT
CONSTRUCT PE
1 - 18" CP REO'D

780 782 784 786 788 790 792

IH 94 NB

R/L IH 94

W-47
0.011 AC

EAST FRONTAGE ROAD

BENCHMARK

NO.	LOCATION	DESCRIPTION	ELEVATION
78837	STA 788+37.14 315.75'LT (94 R)	CP BM CENTER OF TOP OF WELL ALONG S SIDE BUILDING NW CORNER 56TH RD/W SYLVANIA AVE	776.597

VCL 400.00
K = 222.78

4782+27.215
769.89

FINISHED PROFILE AT ℄ WEST FRONTAGE ROAD

END PROJECT
I.D. 1030-24-74

-0.80 %

+1.00 %

VPC STA 4780+50.000
VPC EL770.59

VPI STA 4782+50.000
VPI EL769.00

VPT STA 4784+50.000
VPT EL771.00

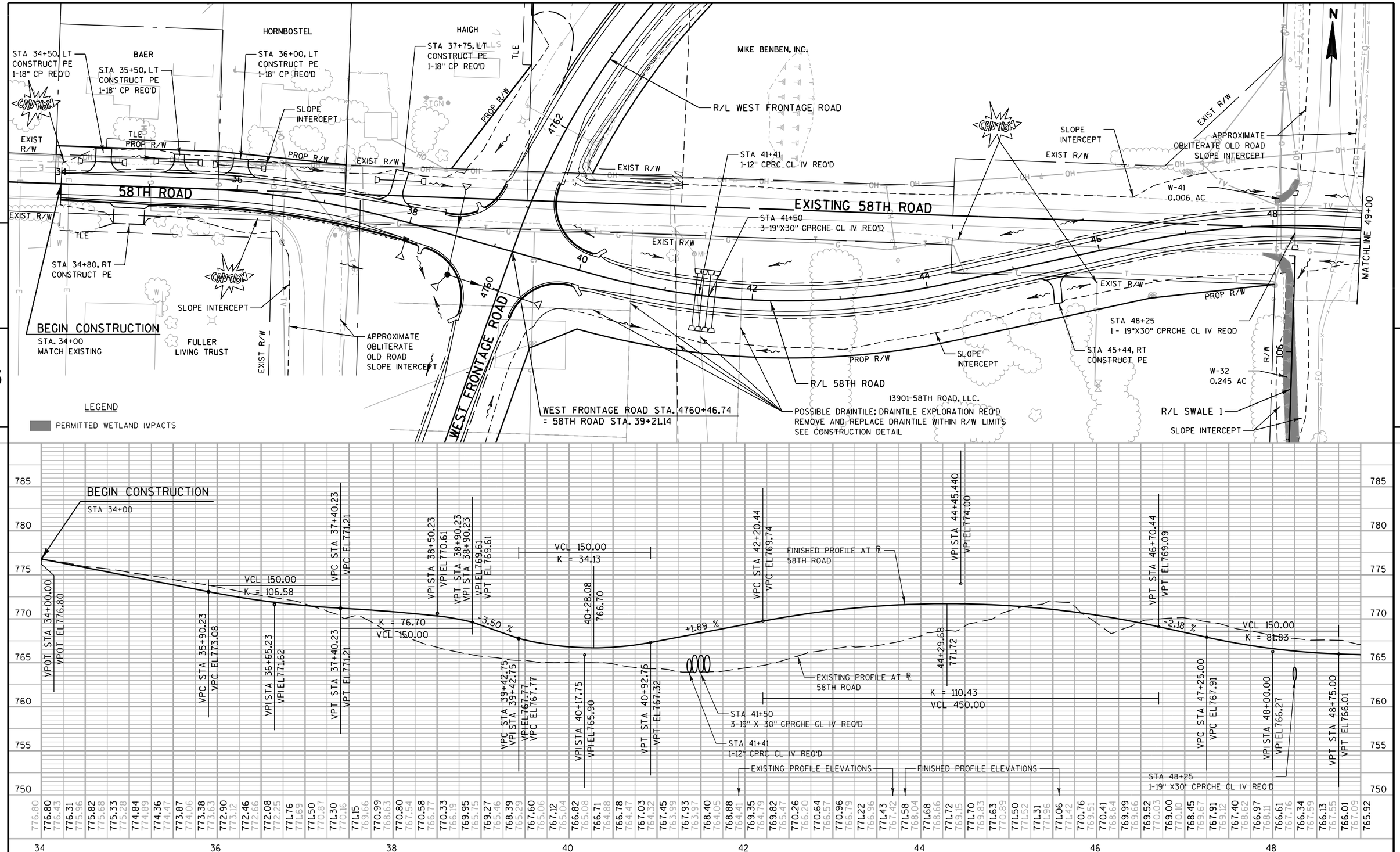
VPOT STA 4785+00.000
VPOT EL771.50

EXISTING PROFILE AT ℄ WEST FRONTAGE ROAD

EXISTING PROFILE ELEVATIONS

FINISHED PROFILE ELEVATIONS

| | | |



PROJECT NO: 1030-24-74	HWY: IH 94	COUNTY: RACINE	PLAN & PROFILE: 58TH ROAD	SHEET 142 E

FILE NAME : Z:\Racine\CADDS\13\13W\CDS\050106_pp.dgn PLOT DATE : 7/27/2017 PLOT BY : cory.ihde PLOT NAME : $FILE$ PLOT SCALE : 1:100

WISDOT/CADDS SHEET 40

IH 94 SB

IH 94 NB

EXIST R/W

POSSIBLE DRAINTILE: DRAINTILE EXPLORATION REQ'D. REMOVE AND REPLACE DRAINTILE WITHIN R/W LIMITS. SEE CONSTRUCTION DETAIL

R/L SWALE 4

PROP R/W

BURIED TILE

PLE

MADRO

FUNK JOINT FAMILY TRUST

ACCESS ROAD B STA. 80B+00.00
= 58TH ROAD STA. 52+19.80

SLOPE INTERCEPT

END CONSTRUCTION
I.D. 1030-24-74
STA 57+72
=MATCH PROJECT
I.D. 1030-24-70

R/L EAST FRONTAGE ROAD

BENCHMARK

NO.	LOCATION	DESCRIPTION	ELEVATION
76489	764+88.77 66.58'LT (94 R)	CP BM BRIDGE DISK TOP PARAPET WALL NW CORNER I94 BRIDGE OVER 58TH RD	785.041
76363	763+63.06 54.45'RT (94 R)	CP BM BRIDGE DISK TOP PARAPET WALL SE CORNER I94 BRIDGE OVER 58TH RD	786.475

LEGEND

PERMITTED WETLAND IMPACTS

N

STA 53+04, LT
CONSTRUCT FE,
1-18" CP REQ'D

STA 55+00, LT
CONSTRUCT PE,
1-18" CP REQ'D

STA 57+50
1-24" CPRC
CLASS IV REQ'D

BM 76489

W-58
0.002 AC

MATCHLINE 49+00

R/L 58TH ROAD

58TH ROAD

ASPH

BM 76363

B-51-20
(EXISTING)

B-51-21
(EXISTING)

R/L
IH 94
R/L IH 94
NB ON
RAMP

W-36
0.126 AC

R/L IH 94
SB OFF
RAMP

STA 53+86, RT
CONSTRUCT PE
1-18" CP REQ'D

SLOPE
INTERCEPT

STA 55+00, RT
CONSTRUCT PE,
1-18" CP REQ'D

STA 56+90, RT
CONSTRUCT PE,
1-18" CP REQ'D

CAUTION

LAKE-COOK FARM SUPPLY

ENGEL

SCHUTTEN

SEPTIC

SEPC

R/L ACCESS ROAD 'B'

5

5

VCL 200.00
K = 184.89

VCL 200.00
K = 65.19

EXISTING PROFILE AT ℄
58TH ROAD

FINISHED PROFILE AT ℄
58TH ROAD

-0.35 %

+0.73 %

52+64.16
764.77

VPC STA 52+00.00
VPC EL764.88

VPI STA 53+00.00
VPI EL764.53

VPT STA 54+00.00
VPT EL765.27

VPC STA 54+76.47
VPC EL765.83

55+42.01
766.07

VPI STA 56+01.47
VPI EL766.75

VPT STA 57+26.47
VPT EL764.16

VPC STA 57+26.47
VPC EL764.16

LP 58+87.36
LP EL 762.13

VPI STA 58+51.47
VPI EL761.58

VPT STA 59+26.47
VPT EL 762.33

VPI STA 59+26.47
VPI EL762.33

K = 89.20
VCL 250.00

STA 57+50
1-24" CPRC CL IV REQ'D

END CONSTRUCTION
STA 57+72
= MATCH PROJECT
I.D. 1030-24-70

SEE PROJECT I.D. 1030-24-70
FOR PROFILE INFORMATION

FINISHED 58TH ROAD PROFILE
PROJECT I.D. 1030-24-70

EXISTING PROFILE ELEVATIONS

FINISHED PROFILE ELEVATIONS

| | | |

LEGEND

PERMITTED WETLAND IMPACTS

SEE EROSION CONTROL PLANS FOR ADDITIONAL WORK

IH 94 SB

BM 76489

IH 94 NB

BM 76363

RWIS WEATHER STATION TO REMAIN

PETROLEUM-CONTAMINATED SOIL AREAS; SEE SPECIAL PROVISIONS

R/L SWALE 2

SLOPE INTERCEPT

58TH ROAD

BEGIN CONSTRUCTION
SWALE 2
STA 200+00.00

END CONSTRUCTION
SWALE 2
STA 201+95.00

STA 76B+00
1-18" CPRC
CLASS IV REQ'D

W-36
0.126 AC

W-35
0.062 AC

ACCESS ROAD 'B'

SOO LINE RAILROAD CO.

R/L ACCESS ROAD 'B'

ENGEL

PETROLEUM-CONTAMINATED SOIL AREA; SEE SPECIAL PROVISIONS

W.H. PUGH OIL CO.

BEGIN CONSTRUCTION
STA. 74B+21.30

END CONSTRUCTION
STA. 80B+00.00

ACCESS ROAD B STA. 80B+00.00
= 58TH ROAD STA. 52+19.80

R/L 58TH ROAD

EXIST R/W

PROP R/W

TLE

CAUTION

NO.	LOCATION	DESCRIPTION	ELEVATION
76489	764+88.77 66.58'LT (94 PC)	CP BM BRIDGE DISK TOP PARAPET WALL NW CORNER I94 BRIDGE OVER 58TH RD	785.041
76363	763+63.06 54.45'RT (94 PC)	CP BM BRIDGE DISK TOP PARAPET WALL SE CORNER I94 BRIDGE OVER 58TH RD	786.475

SWALE 2

VPI STA 200+00.00
VPI EL 759.00

VPI STA 201+67.85
VPI EL 760.00

0.60%

BEGIN CONSTRUCTION
SWALE 2
STA 200+00.00

END CONSTRUCTION
SWALE 2
STA 201+95.00

BEGIN CONSTRUCTION
STA 74B+21.30

VPI STA 74B+23.88
VPI EL 763.60

VPI STA 74B+83.88
VPI EL 764.80

VPI STA 75B+60.00
VPI EL 765.56

2.00%

1.00%

-0.50%

FINISHED PROFILE AT ℄ ACCESS ROAD "B"

EXISTING PROFILE AT ℄ ACCESS ROAD "B"

STA 76B+00
1-18" CPRC CL IV REQ'D

VPI STA 79B+15.00
VPI EL 763.79

VPI STA 79B+80.00
VPI EL 764.44

VPI STA 80B+00.00
VPI EL 764.84

1.00%

2.00%

END CONSTRUCTION
STA 79B+80.00

EXISTING PROFILE ELEVATIONS

FINISHED PROFILE ELEVATIONS

200	202	74B	76B	78B	80B
759.11	759.00	763.68	763.40	763.62	764.12
760.91	759.15		763.56	763.17	764.62
761.25	759.30				763.01
760.03	759.45				764.96
759.93	759.60				763.39
760.60	759.74				765.21
761.46	759.89				763.41
762.47					765.46
					763.29
					765.49
					763.25
					765.36
					763.16
					765.24
					762.93
					765.11
					762.52
					764.99
					762.30
					764.86
					762.46
					764.74
					763.74
					764.61
					764.46
					764.49
					764.95
					764.36
					765.18
					764.24
					765.24
					764.11
					765.49
					763.99
					765.43
					763.86
					765.57
					763.89
					765.79
					764.14
					766.37
					764.39
					766.93
					764.84

PROJECT NO: 1030-24-74	HWY: IH 94	COUNTY: RACINE	PLAN & PROFILE: ACCESS ROAD "B"	SHEET 144	E

BENCHMARK

NO.	LOCATION	DESCRIPTION	ELEVATION
75480	STA 754+80.35 59.24'RT (94 ℄)	CP BM BRIDGE DISK TOP PARAPET WALL SE CORNER I94 BRIDGE OVER STH 11/RR	788.051
75749	STA 757+48.62 71.86'LT (94 ℄)	CP BM BRIDGE DISK TOP PARAPET WALL NW CORNER I94 BRIDGE OVER STH 11/RR	789.581
76489	764+88.77 66.58'LT (94 ℄)	CP BM BRIDGE DISK TOP PARAPET WALL NW CORNER I94 BRIDGE OVER 58TH RD	785.041
76363	763+63.06 54.45'RT (94 ℄)	CP BM BRIDGE DISK TOP PARAPET WALL SE CORNER I94 BRIDGE OVER 58TH RD	786.475

LEGEND

PERMITTED WETLAND IMPACTS

N

R/L STH 11

STH 11

SOO LINE RAILROAD CO.

R/L 58TH ROAD

58TH ROAD

BEGIN CONSTRUCTION SWALE 1
STA 100+00.00

END CONSTRUCTION SWALE 1
STA 107+09.06

R/L SB OFF RAMP

R/L SWALE 1

SLOPE INTERCEPT

BM 75749

BM 76489

W-32
0.245 AC

IH-94 SB

IH-94 NB

BM 75480

BM 76363

5

5

VPI STA 100+00.00
VPI EL 758.40

VPI STA 107+09.06
VPI EL 762.50

EXISTING PROFILE AT ℄ SWALE 1

FINISHED PROFILE AT ℄ SWALE 1

0.58%

BEGIN CONSTRUCTION SWALE 1
STA 100+00.00

END CONSTRUCTION SWALE 1
STA 107+09.06

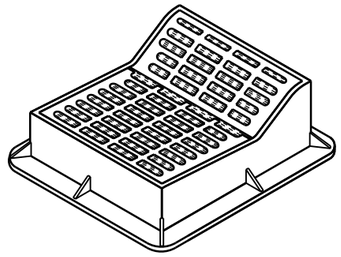
	100	102	104	106	108
EXISTING PROFILE ELEVATIONS	758.40	758.54	758.69	758.83	758.98
FINISHED PROFILE ELEVATIONS	758.44	758.37	758.68	759.00	759.25
EXISTING PROFILE ELEVATIONS			759.12	759.27	759.41
FINISHED PROFILE ELEVATIONS			759.58	759.87	760.29
EXISTING PROFILE ELEVATIONS			759.56	759.70	759.85
FINISHED PROFILE ELEVATIONS			760.59	761.18	761.92
EXISTING PROFILE ELEVATIONS			759.99	760.13	760.28
FINISHED PROFILE ELEVATIONS			762.30	762.90	763.83
EXISTING PROFILE ELEVATIONS			760.42	760.57	760.71
FINISHED PROFILE ELEVATIONS			764.34	764.83	764.48
EXISTING PROFILE ELEVATIONS			760.86	761.00	761.15
FINISHED PROFILE ELEVATIONS			764.22	764.51	764.57
EXISTING PROFILE ELEVATIONS			761.29	761.44	761.58
FINISHED PROFILE ELEVATIONS			764.64	764.65	765.04
EXISTING PROFILE ELEVATIONS			761.72	761.87	762.01
FINISHED PROFILE ELEVATIONS			765.46	765.94	765.75
EXISTING PROFILE ELEVATIONS			762.16	762.30	762.45
FINISHED PROFILE ELEVATIONS			765.80	766.54	

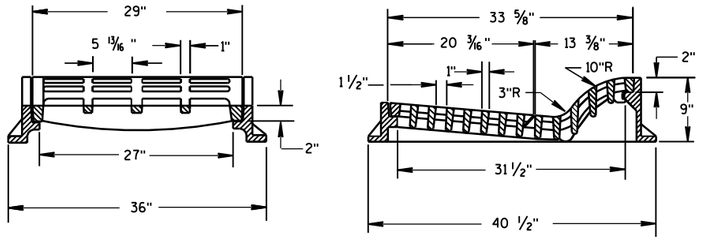
PROJECT NO: 1030-24-74	HWY: IH 94	COUNTY: RACINE	PLAN & PROFILE: SWALE 1	SHEET 145	E

Standard Detail Drawing List

08A05-19C	INLET COVERS TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S
08A05-19D	INLET COVER TYPE BW, MANHOLE COVERS, TYPE K, J, J-S, L & M
08B09-02	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER
08C07-02	INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT
08D01-19	CONCRETE CURB, CONCRETE CURB AND GUTTER AND TIES
08D04-05	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08E14-01	TRACKING PAD
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F02-01	APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
08F06-04	REINFORCED CONCRETE APRON ENDWALL FOR PIPE UNDERDRAIN
08F07-05	STEEL APRON ENDWALLS FOR CULVERT PIPE AND PIPE ARCH SLOPED SIDE FRAINS
09A01-13A	AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND D AND TEE INTERSECTION BYPASS LANE
09C02-07	CONCRETE BASES, TYPES 1, 2, 5, & 6
09E07-05	TRAFFIC SIGNAL STANDARD PEDESTRIAN AND FLASHER TYPICAL MOUNTING DETAILS
11B02-02	CONCRETE MEDIAN NOSE
15A02-09	DELINEATOR POST, DELINEATOR REFLECTOR AND DELINEATOR BRACKET WITH REFLECTIVE SHEETING
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15B01-08A	FENCE WOVEN WIRE
15B01-08B	FENCE WOVEN WIRE
15C02-06A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C03-03	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C04-03	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C05-03	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C07-13B	PAVEMENT MARKING WORDS
15C07-13C	PAVEMENT MARKING ARROWS
15C08-17A	LONGITUDINAL MARKING (MAINLINE)
15C08-17B	PAVEMENT MARKING (TURN LANES)
15C08-17C	PAVEMENT MARKING (ISLANDS)
15C12-04	TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
15C12-05	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C18-03	MEDIAN ISLAND MARKING
15D27-03	TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH
15D29-04	TRAFFIC CONTROL, VEHICLE ENTRANCE/EXIT OR HAUL ROAD
15D38-01A	TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS
15D38-01B	ATTACHMENT OF SIGNS TO POSTS

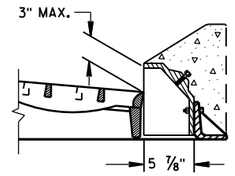
6





TYPE "F"

USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.



ALTERNATIVE CURB BOX FOR TYPE "HM" COVER

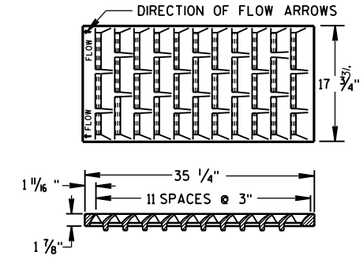
USE WITH TYPES G & J CONCRETE CURB & GUTTER, 30 INCH
NOTED AS TYPE HM-GJ ON DRAINAGE TABLE

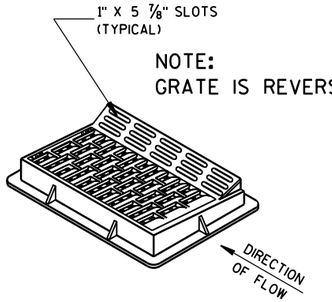
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM-GJ" COVER
NOTED AS TYPE HM-GJ-S ON DRAINAGE TABLE

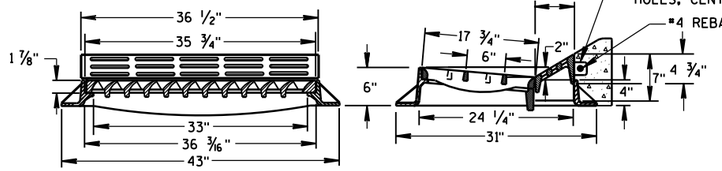
GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.



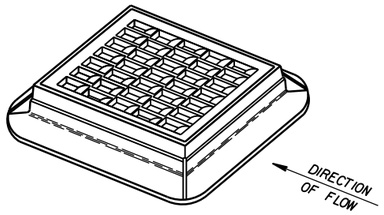


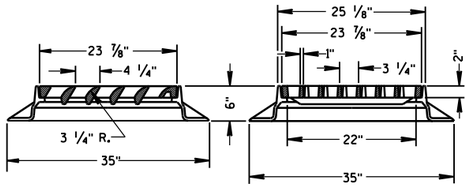


TYPE "HM"

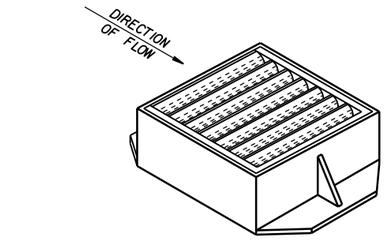
USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.

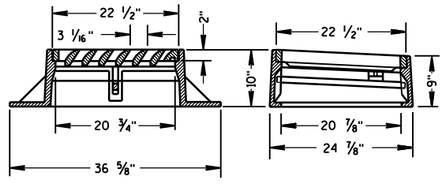
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM" COVER
NOTED AS TYPE HM-S ON DRAINAGE TABLE





TYPE "S"





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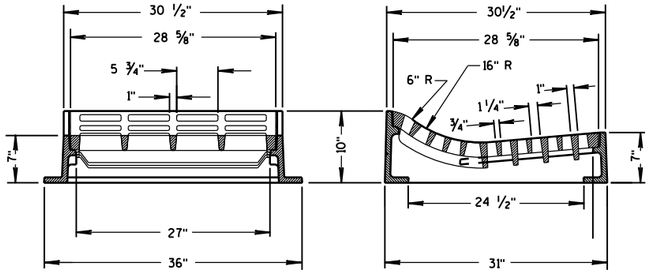

TYPE "T"

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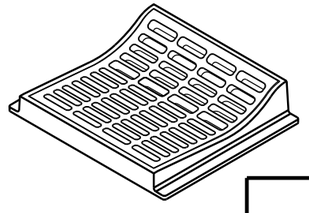


INLET COVERS
TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

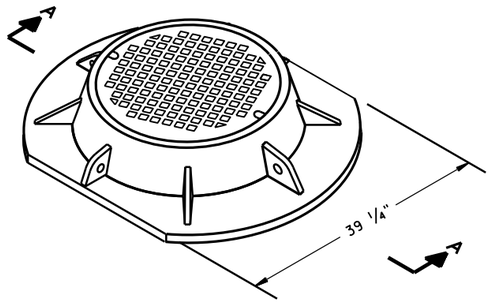
APPROVED
11/27/2013
DATE

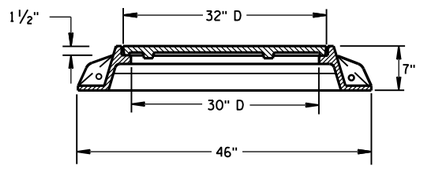
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

FHWA

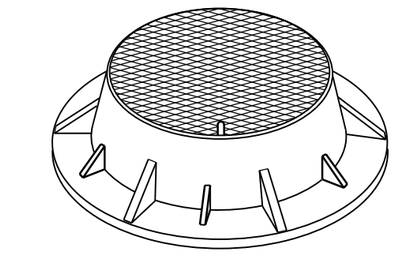
6

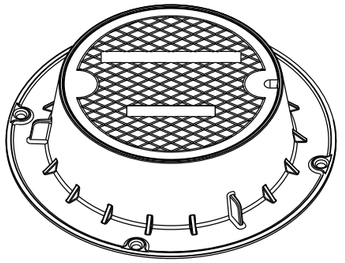
S.D.D. 8 A 5-19c

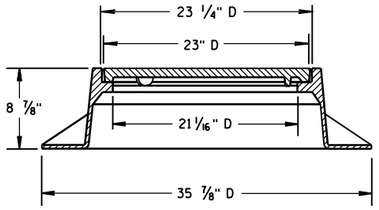


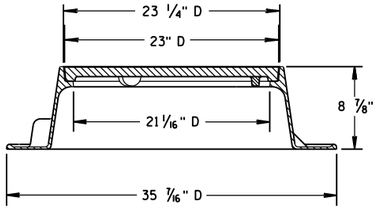


SECTION A-A
TYPE "K"









TYPE "J"
NOTE: EITHER CASTING IS ACCEPTABLE

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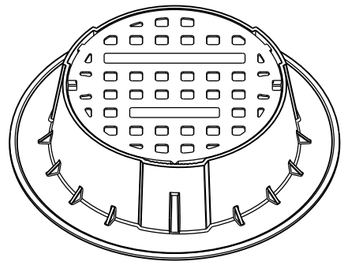
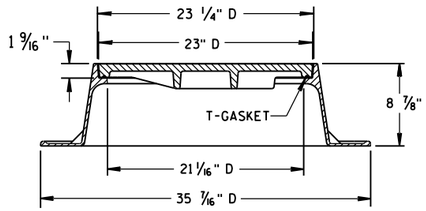
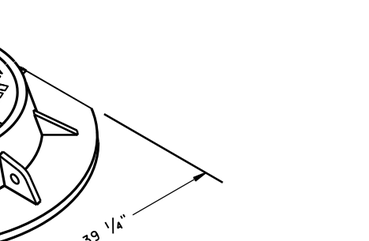
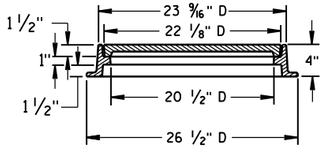
ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

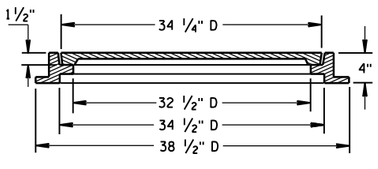




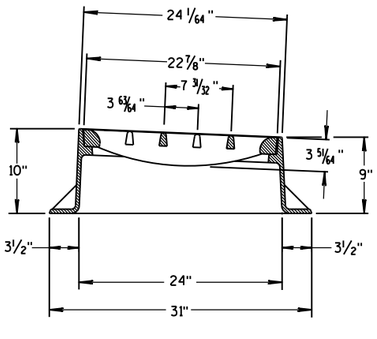


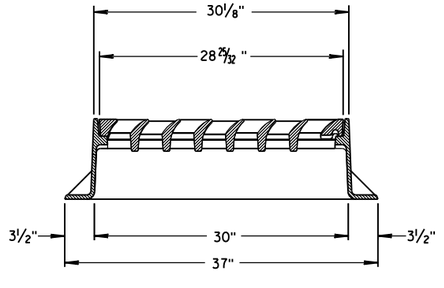


TYPE "L"

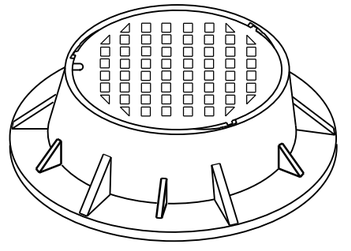


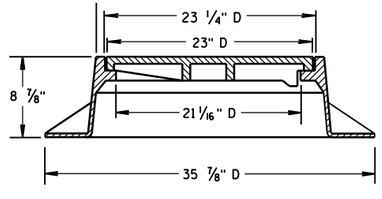
TYPE "M"





INLET COVER TYPE "BW"





TYPE "J" SPECIAL
TYPE "B" NON-ROCKING SELF-SEAL LID
(NOTED AS TYPE J-S ON THE DRAINAGE TABLE)
NOTE: EITHER CASTING IS ACCEPTABLE

INLET COVER TYPE BW
MANHOLE COVERS, TYPE K, J, J-S, L & M

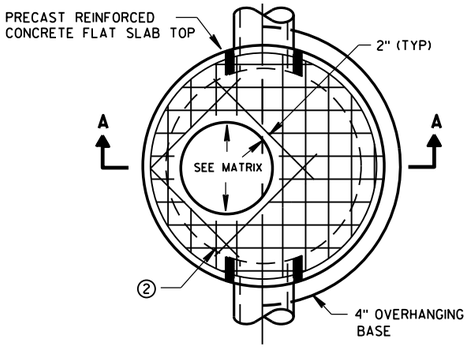
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013
DATE
FHWA

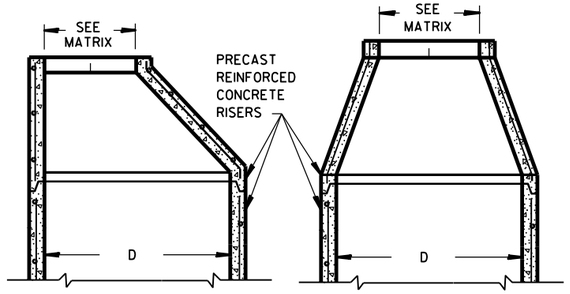
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

6

S.D.D. 8 A 5-19d

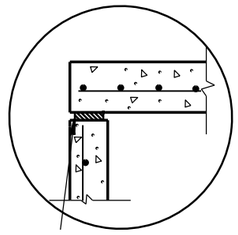


PLAN VIEW CIRCULAR OPENING

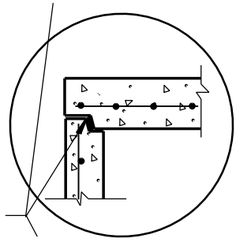


OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

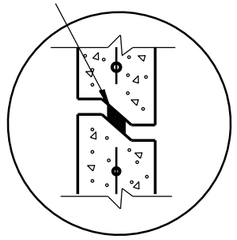


TOP WITH PLAIN END JOINT



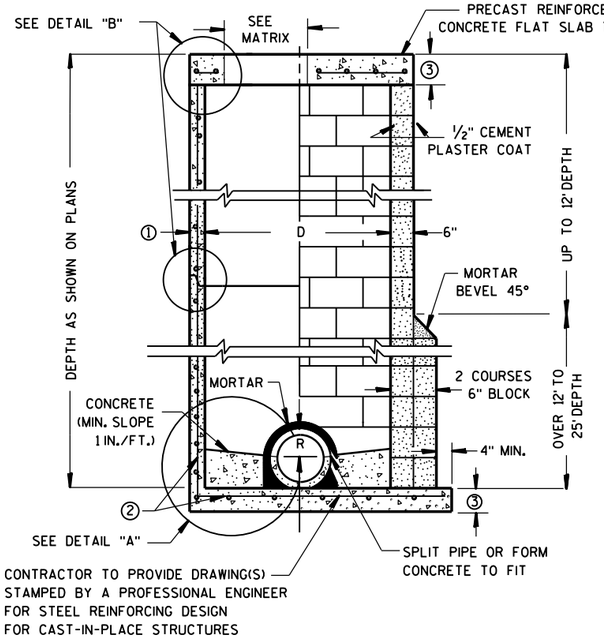
JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C990 (TYP)

TOP WITH TONGUE AND GROOVE JOINT



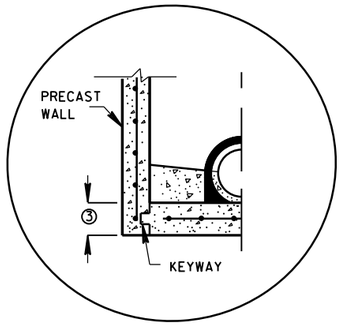
RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"

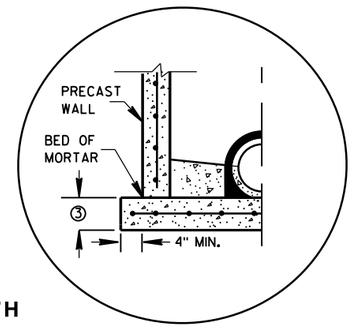


PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

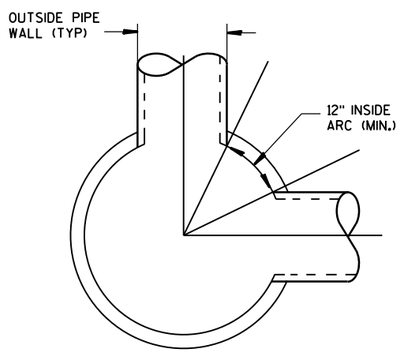


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "C"

GENERAL NOTES

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UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST MANHOLE UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES, AND CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 5 FEET OR LESS IN DEPTH, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

STEPS MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF ½" AND MEET THE REQUIREMENTS OF ASTM A615.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

CONCRETE BLOCK WILL NOT BE PERMITED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

ALL PRECAST MANHOLE UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT, 5 INCHES FOR 4-FT, 6 INCHES FOR 5-FT, 7 INCHES FOR 6-FT, 8 INCHES FOR 7-FT AND 9 INCHES FOR 8-FT DIAMETER PRECAST MANHOLES.

② FOR PRECAST MANHOLES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

③ PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER OF 48" AND LESS SHALL HAVE A MINIMUM THICKNESS OF 6". PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER LARGER THAN 48" SHALL HAVE A MINIMUM THICKNESS OF 8".

MANHOLE COVER OPENING MATRIX

MANHOLE COVER TYPE	C	ALL J'S	K	L	M
OPENING SIZE (FT)					
2 DIA.	X	X		X	
3 DIA.			X		X

PIPE MATRIX

MANHOLE SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18
5-FT	36	24
6-FT	42	36
7-FT	48	36
8-FT	60	42

MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

Sept., 2016
DATE

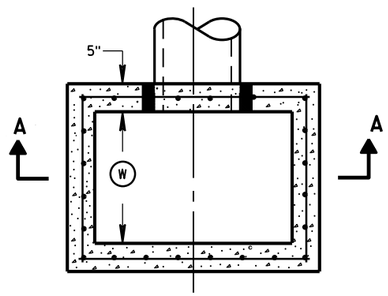
/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT
UNIT SUPERV

FHWA

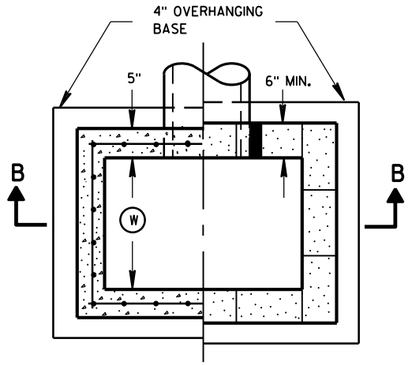
MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER

S.D.D. 8 B 9-2

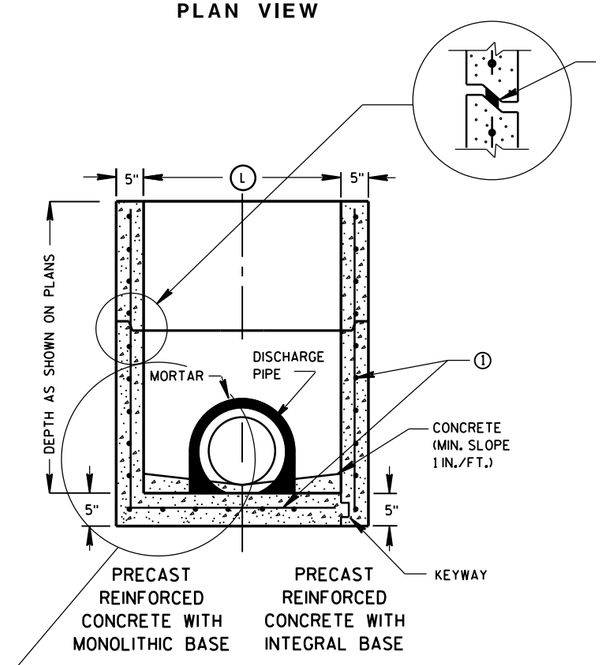
6



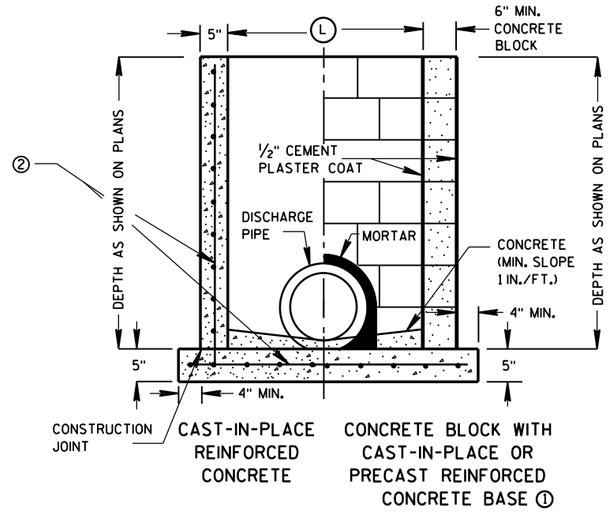
PLAN VIEW



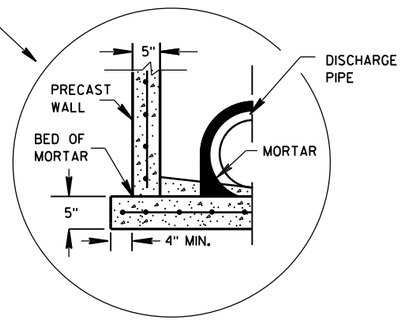
PLAN VIEW



SECTION A-A



SECTION B-B



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

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ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATES THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANGING BASES ARE REQUIRED FOR CAST-IN-PLACE REINFORCED CONCRETE AND CONCRETE BLOCK INSTALLATIONS.
4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED.
OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3 INCH CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

① FOR PRECAST INLETS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

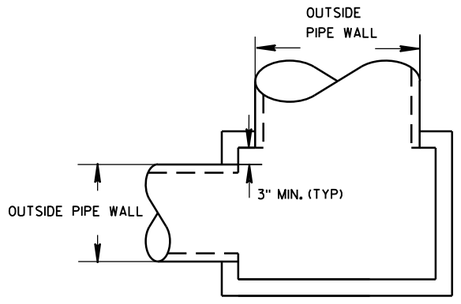
② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

INLET COVER MATRIX

INLET SIZE		INLET COVER TYPE	ALL A'S	ALL B'S	BW	F	ALL H'S	S	T	V	WM
	WIDTH (W) (FT)	LENGTH (L) (FT)									
2X2-FT	2	2	X	X				X		X	
2X2.5-FT	2	2.5			X			X	X	X	X
2X3-FT	2	3					X				
2.5X3-FT	2.5	3				X					

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER	
	WIDTH (IN)	LENGTH (IN)
2X2-FT	12	12
2X2.5-FT	12	18
2X3-FT	12	24
2.5X3-FT	18	24



DETAIL "A"

INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2016
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS D IT
UNIT SUPERVIS
FHWA

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S.D.D. 8 C 7-2

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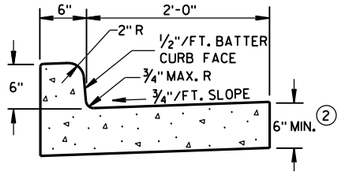
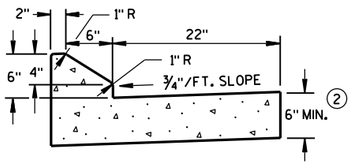
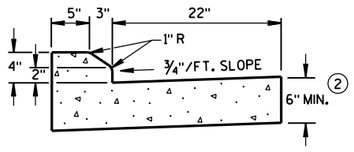
S.D.D. 8 C 7-2



TYPES A & D ①

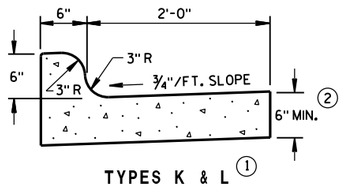


6" SLOPED CURB TYPES G & J ①

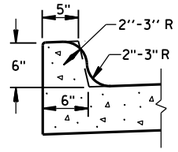


4" SLOPED CURB TYPES G & J ①

CONCRETE CURB & GUTTER 30"

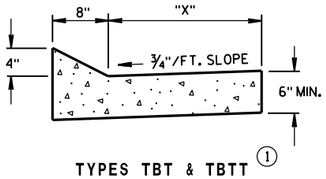


TYPES K & L ①



OPTIONAL CURB SHAPE FOR TYPES K & L ①

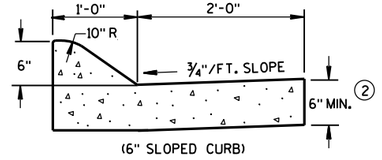
CONCRETE CURB & GUTTER 30"



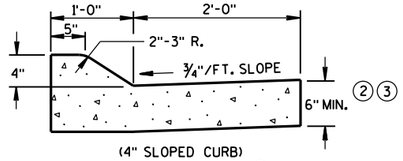
TYPES TBT & TBTT ①

CONCRETE CURB & GUTTER

TBT & TBTT	"X"
30"	22"
36"	28"

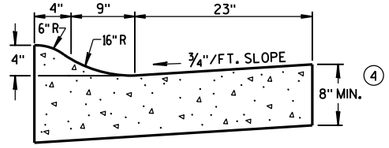


(6" SLOPED CURB)



(4" SLOPED CURB)

TYPES A & D ①



4" SLOPED CURB TYPES R & T ①⑤

CONCRETE CURB & GUTTER 36"

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

INTEGRAL CURB & GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB & GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE. A LONGITUDINAL CONSTRUCTION JOINT IS NOT REQUIRED WITH INTEGRAL CURB AND GUTTER.

WHERE THE TRANSVERSE JOINTS IN THE PAVEMENT ARE REQUIRED TO BE SEALED, THE JOINTS IN THE INTEGRAL CURB AND GUTTER SHALL BE SEALED TO THE FACE OF CURB WITH THE SAME TYPE OF SEALANT. THE COST OF FURNISHING AND INSTALLING THIS SEALANT SHALL BE INCIDENTAL TO THE ITEM CONCRETE CURB AND GUTTER.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2'-0" BEHIND THE BACK OF CURBS.

① TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K, R AND TBTT.

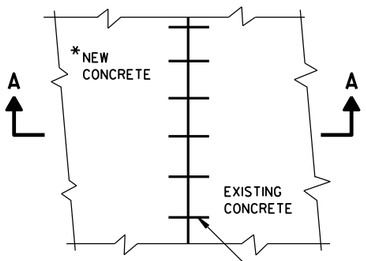
② THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

③ USE 8" MINIMUM GUTTER THICKNESS WHEN USED WITH AN ADJACENT CONCRETE TRUCK APRON PLACED BEHIND BACK OF CURB.

④ THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.

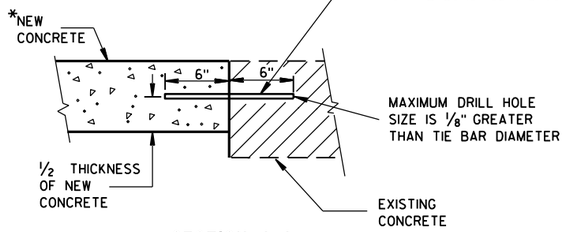
⑤ THE FACE OF CURB IS 6" FROM THE BACK OF CURB.

⑥ WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.



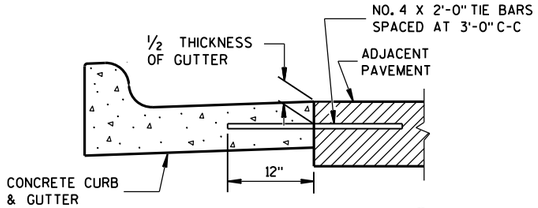
*NEW CURB & GUTTER, SURFACE DRAINS, CONCRETE PAVEMENT OR OTHER NEW CONCRETE.

PLAN VIEW

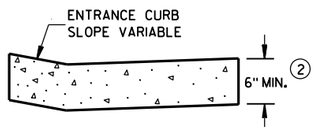


SECTION A-A

TIE BARS DRILLED INTO EXISTING PAVEMENT

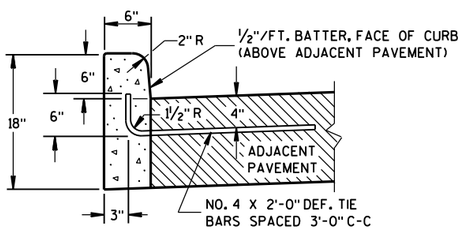


TYPICAL TIE BAR LOCATION ①

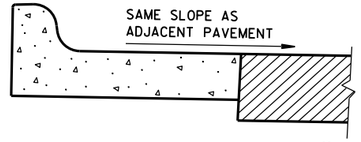


DRIVEWAY ENTRANCE CURB

(WHEN DIRECTED BY THE ENGINEER)

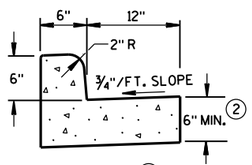


① TYPES A & D



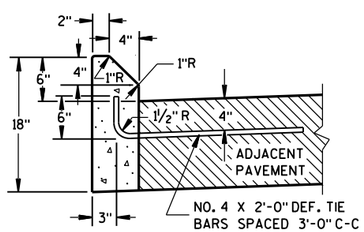
⑥ REVERSE SLOPE GUTTER

(TYPICAL FOR ALL CURB & GUTTER TYPES)



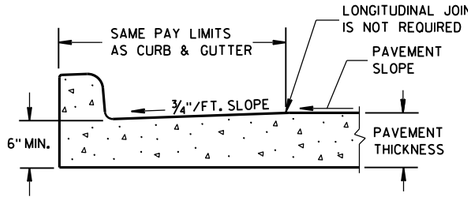
① TYPES A & D

CONCRETE CURB & GUTTER 18"

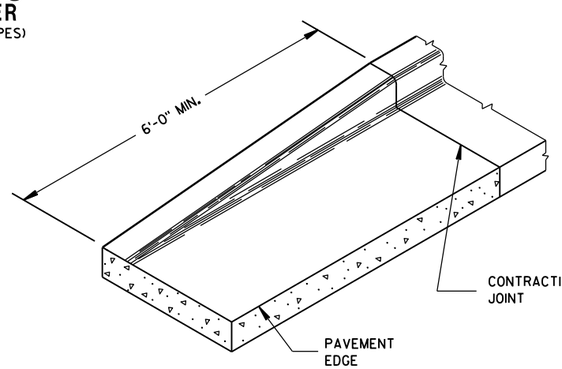


① TYPES G & J

CONCRETE CURB



PARTIAL SECTION OF PAVEMENT WITH INTEGRAL CURB & GUTTER



END SECTION CURB & GUTTER

CONCRETE CURB, CONCRETE CURB & GUTTER AND TIES

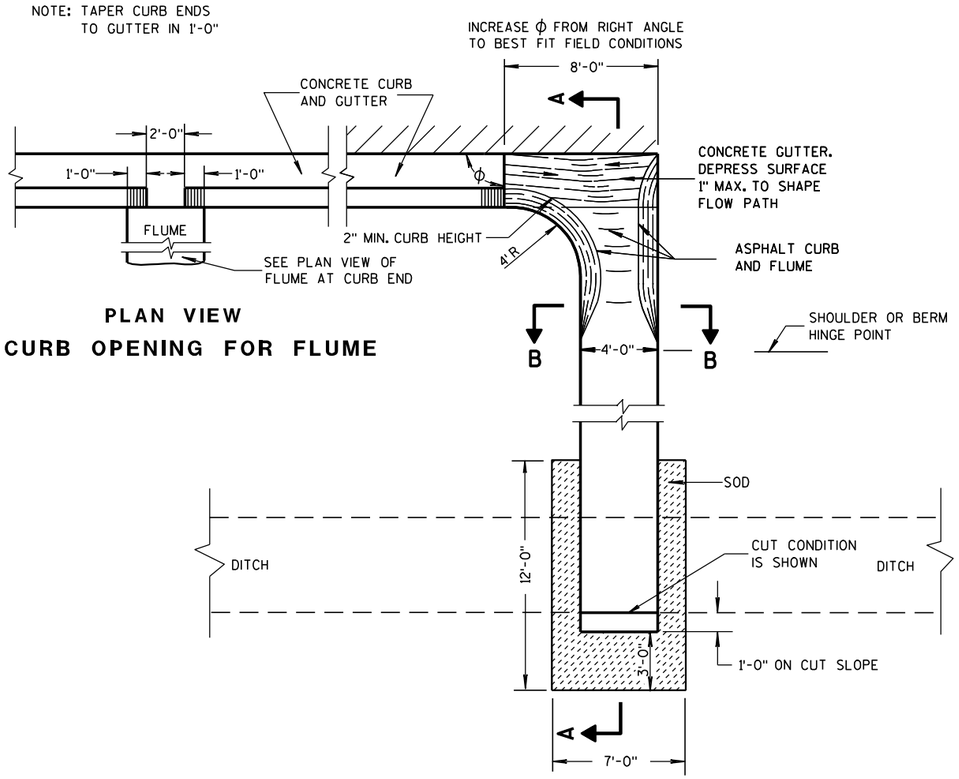
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2016 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

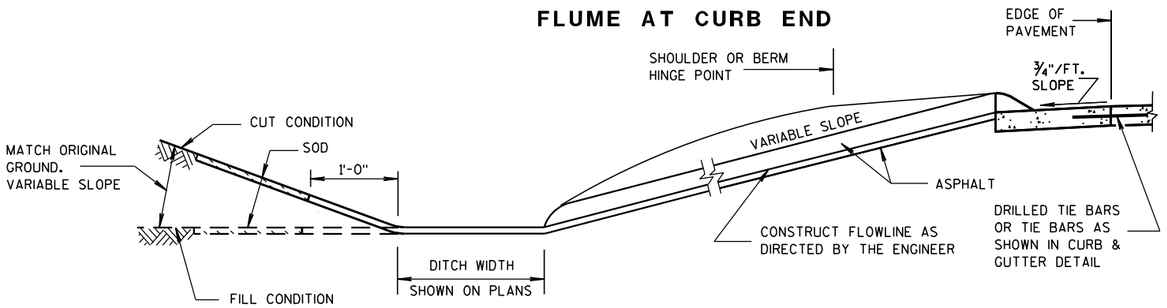
S.D.D. 8 D 1-19

ASPHALTIC FLUME

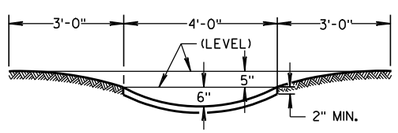


PLAN VIEW
CURB OPENING FOR FLUME

PLAN VIEW
FLUME AT CURB END



SECTION A-A



SECTION B-B

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

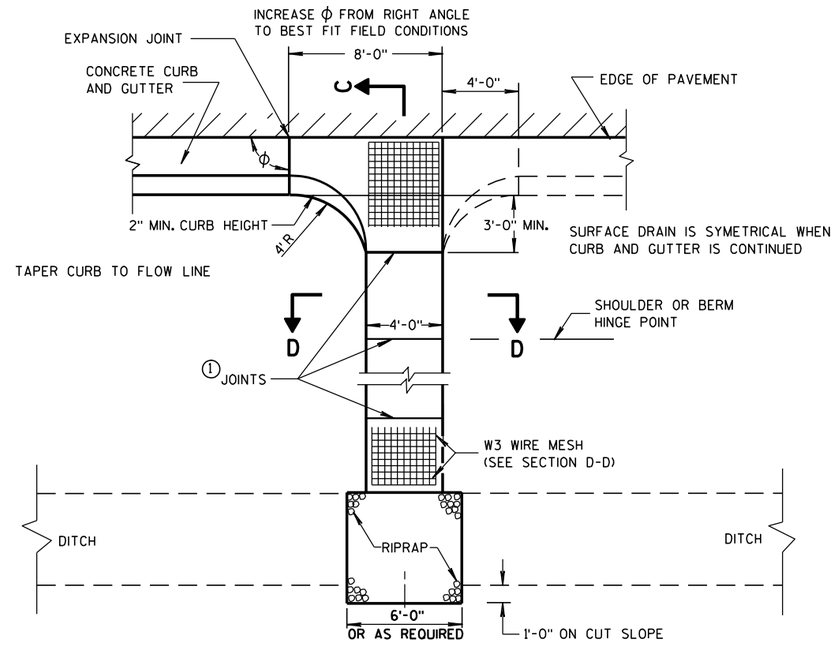
WELDED STEEL WIRE FABRIC SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

① JOINTS SHALL BE $\frac{1}{8}$ TO $\frac{1}{4}$ INCH WIDE BY $1\frac{1}{2}$ INCHES DEEP AND SPACED AT UNIFORM INTERVALS OF APPROXIMATELY 4 FEET.

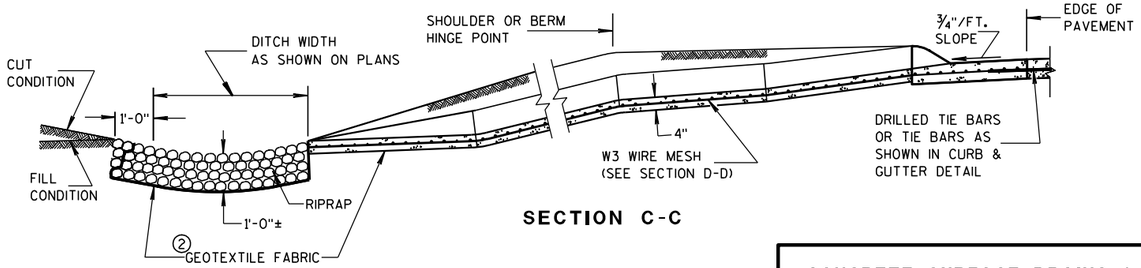
② GEOTEXTILE FABRIC TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.

③ CONCRETE SURFACE DRAIN WITHOUT CURB AND GUTTER MAY BE USED ON BACKSLOPES WHEN SPECIFIED

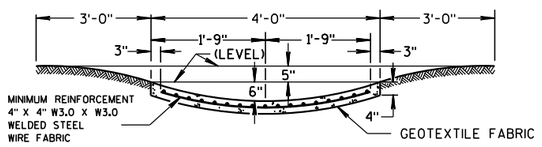
③ CONCRETE SURFACE DRAIN



PLAN VIEW



SECTION C-C



SECTION D-D

CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
9-4-08 DATE
/S/ Jerry H. [illegible]
ROADWAY STANDARDS ENGINEER
FHWA

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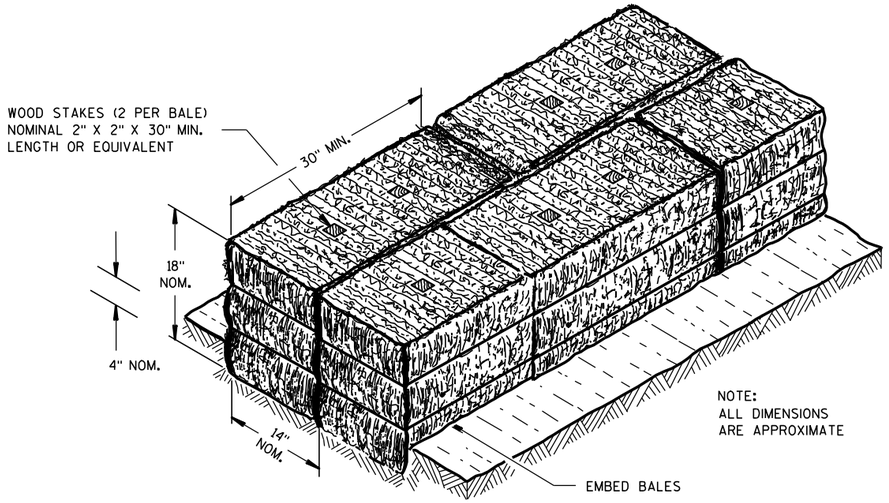
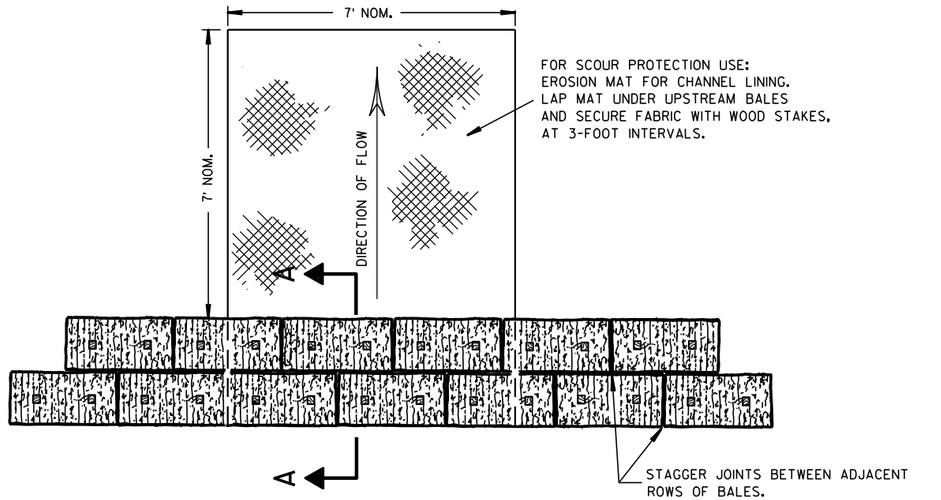
S.D.D. 8 D 4-5

6

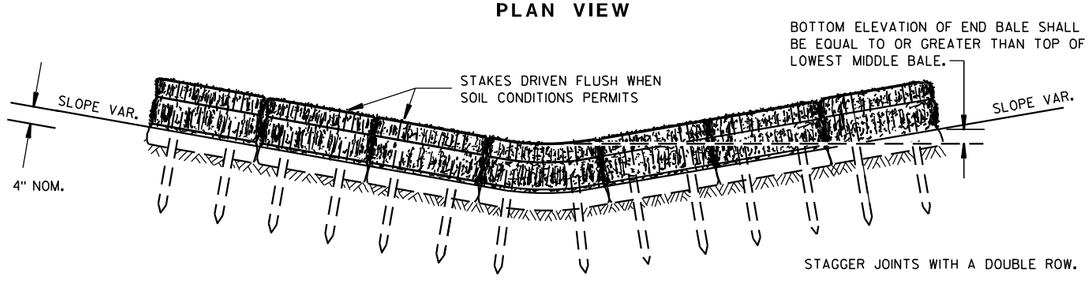
S.D.D. 8 D 4-5



SECTION A-A



PLAN VIEW



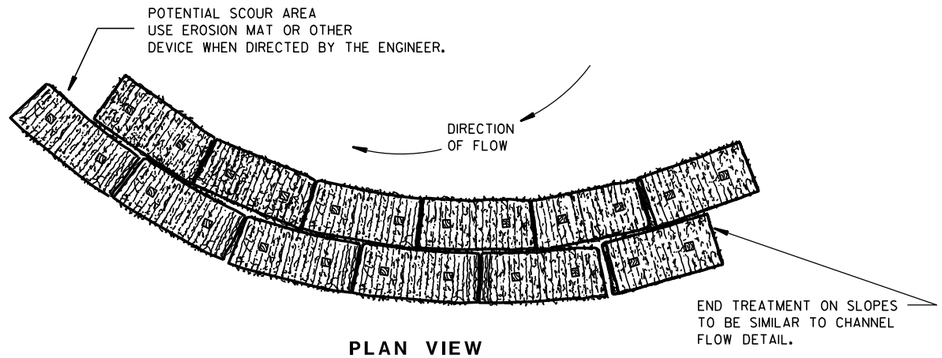
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES ①

GENERAL NOTES

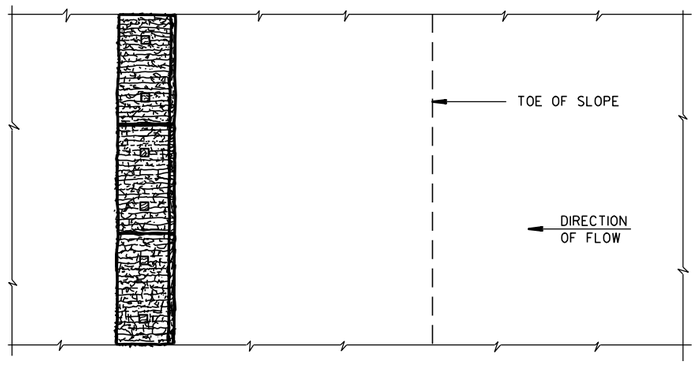
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

① TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.

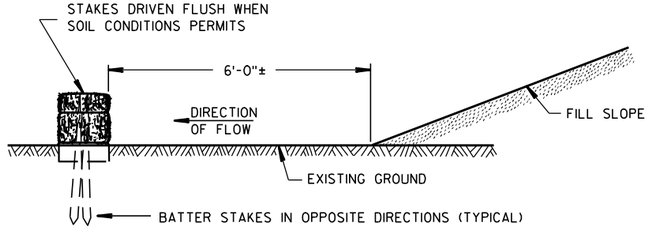


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

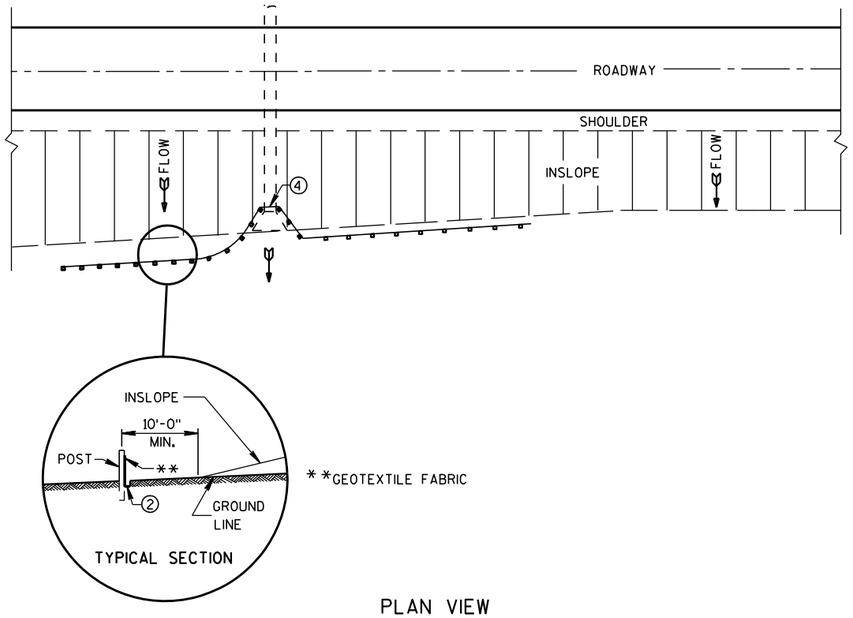
EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

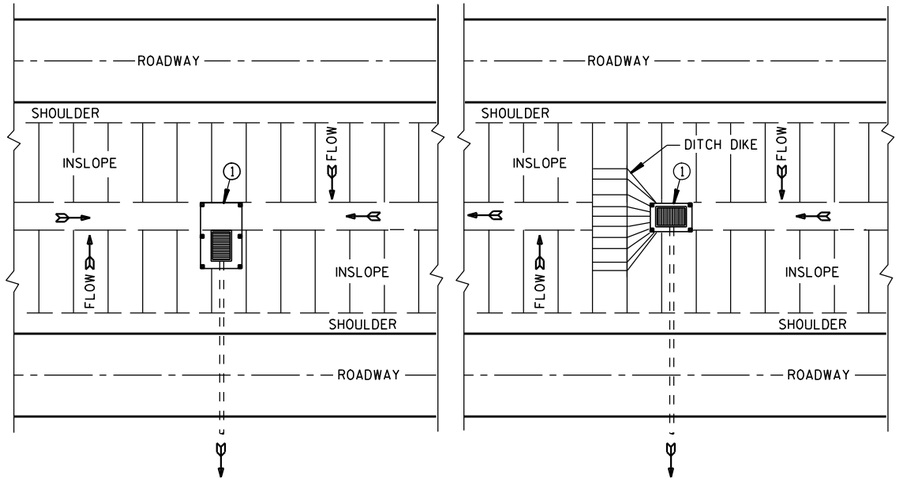
APPROVED
6/04/02 DATE
/S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6
S.D.D. 8 E 8-3



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



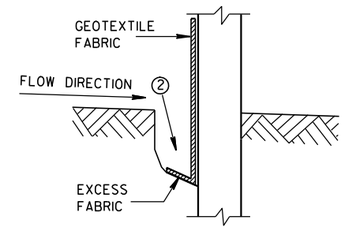
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

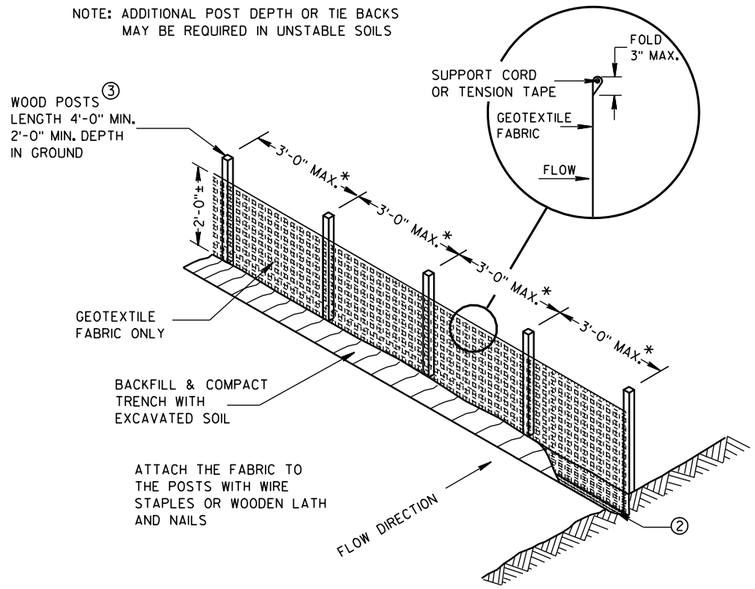
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

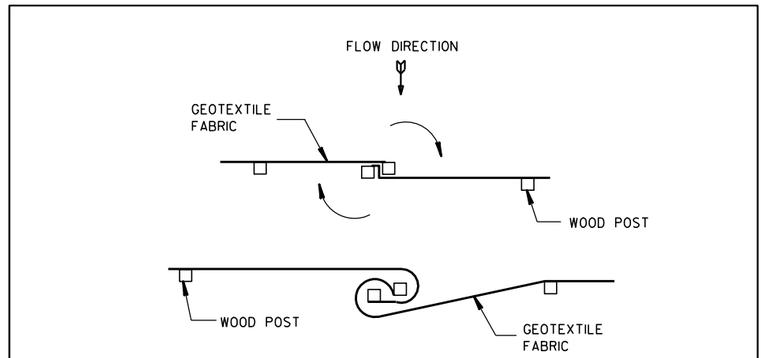
1. HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
2. FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.
4. SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
5. CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



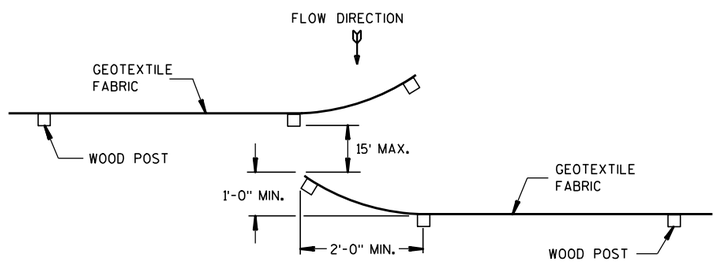
TRENCH DETAIL



SILT FENCE

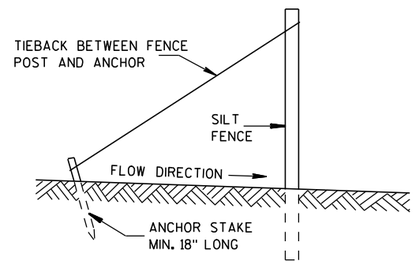


TWIST METHOD



HOOK METHOD

JOINING TWO LENGTHS OF SILT FENCE 5



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

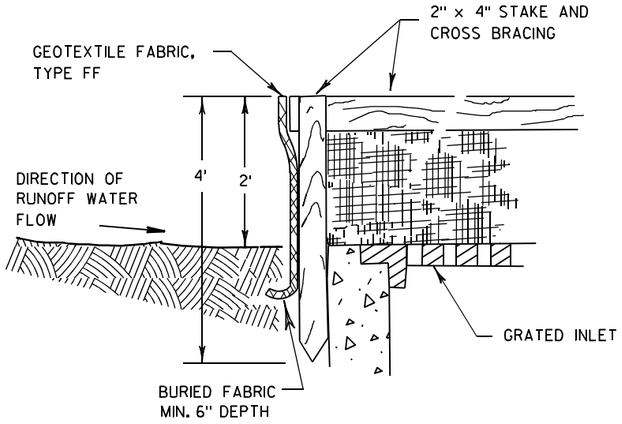
APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

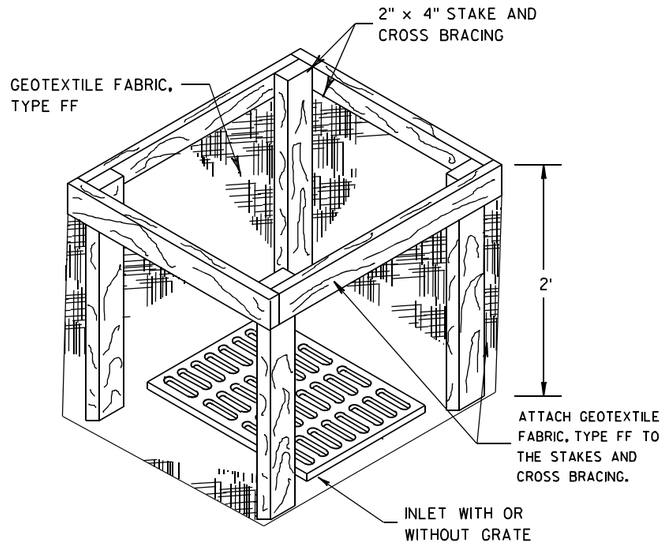
6

S.D.D. 8 E 9-6

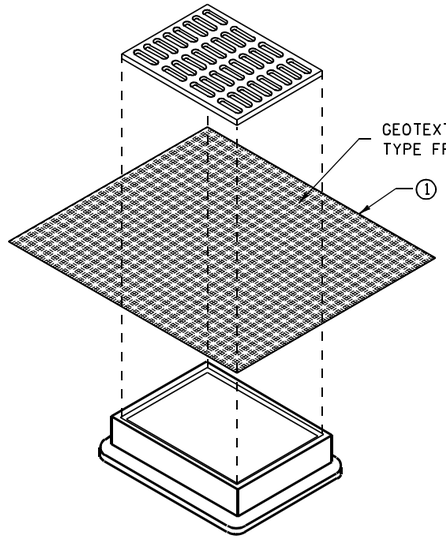
6

S.D.D. 8 E 9-6



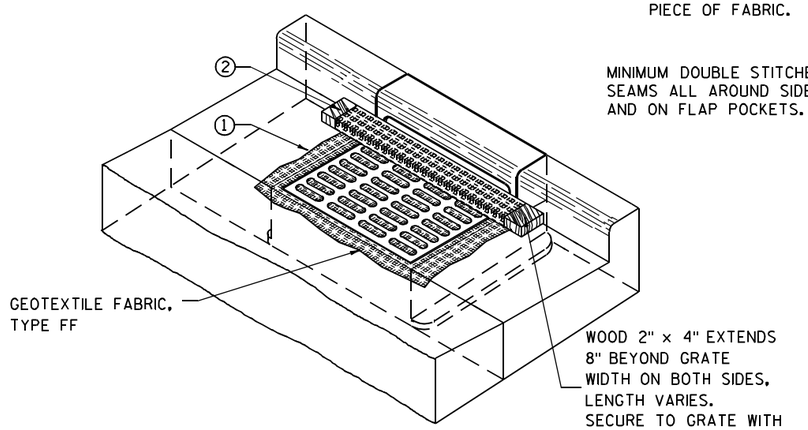


INLET PROTECTION, TYPE A

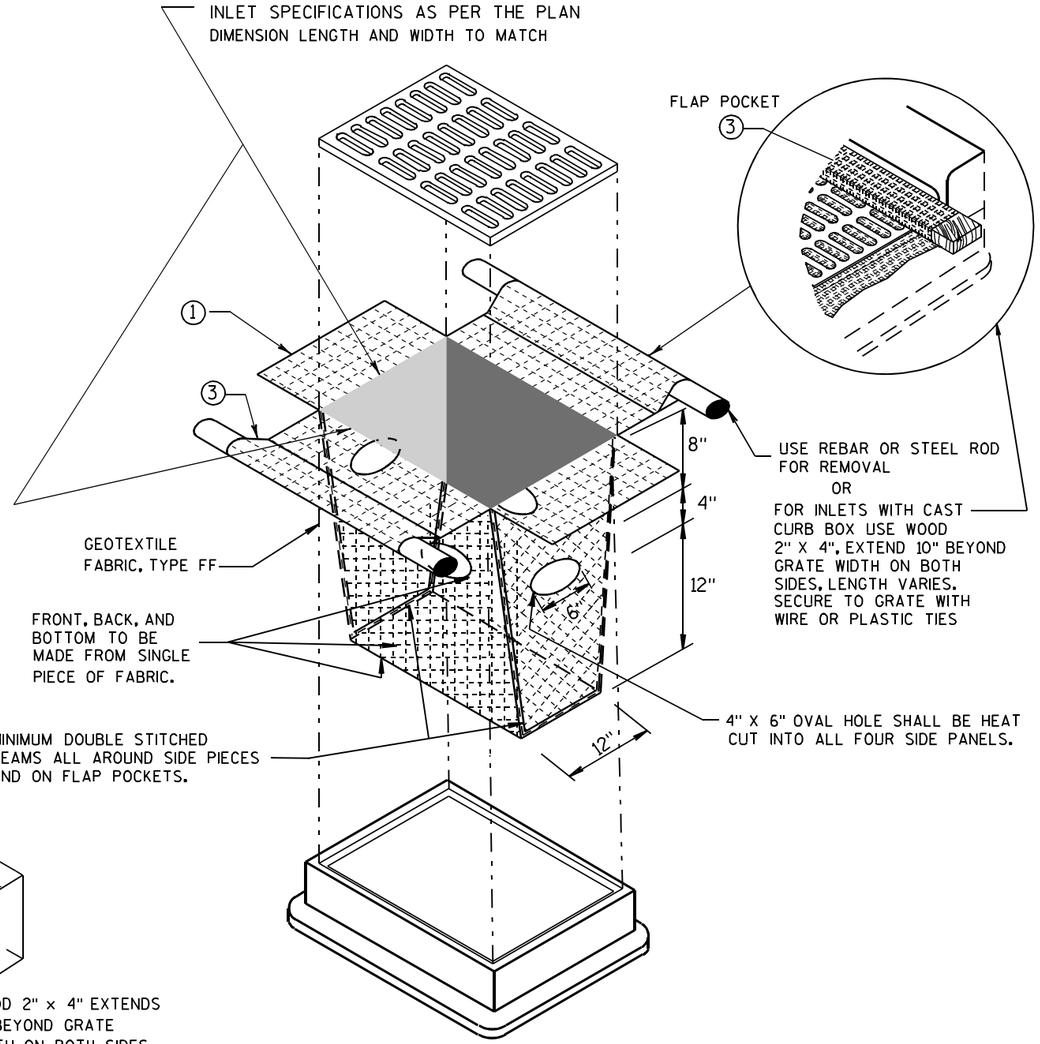


INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE C (WITH CURB BOX)



INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH
OR WITHOUT A CURB BOX AS PER NOTE ②)

GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION
TYPE A, B, C, AND D

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

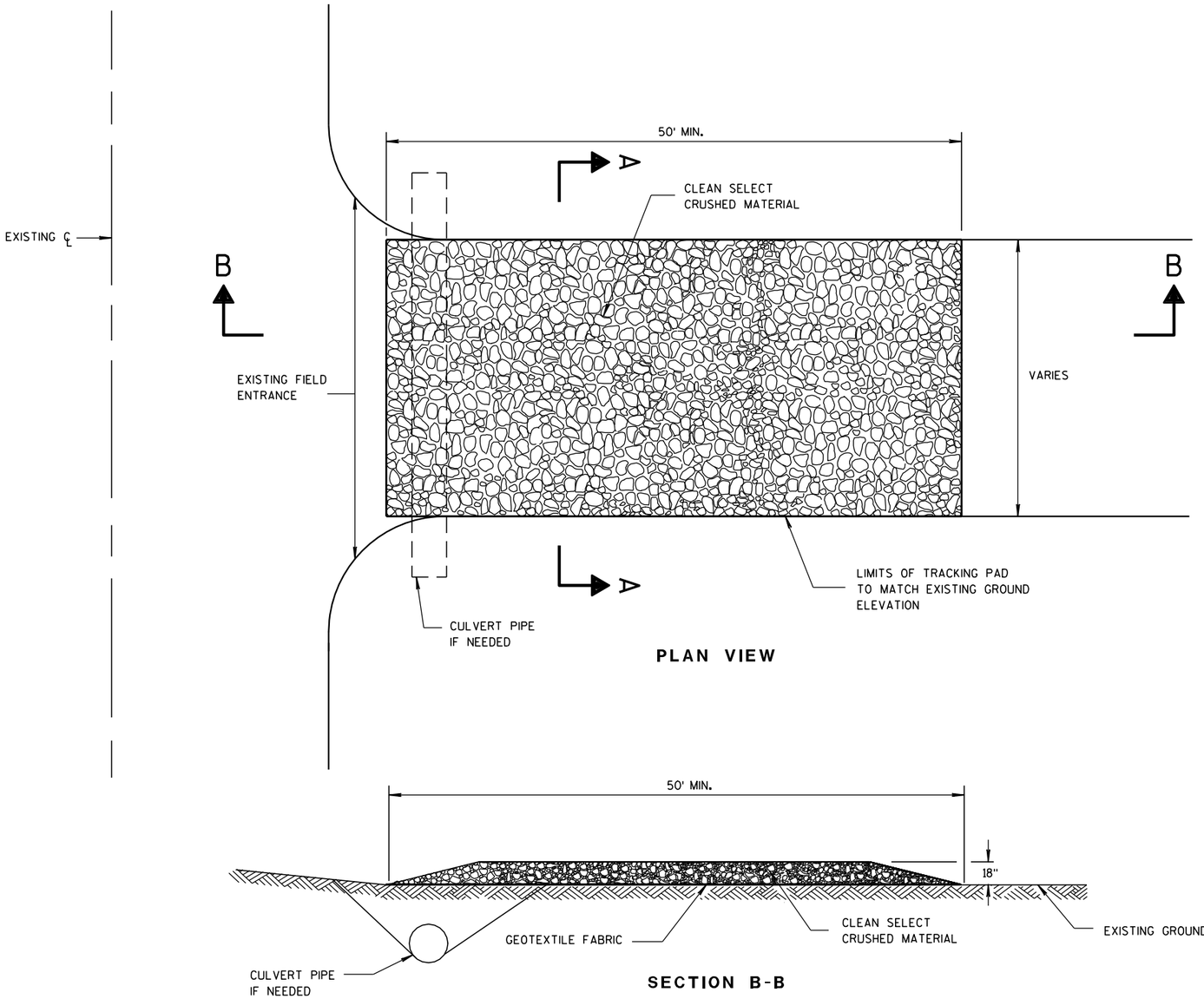
APPROVED

10/16/02
DATE

/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

6
S.D.D. 8 E 10-2



PLAN VIEW

SECTION B-B

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

TRACKING PAD SHALL BE INSPECTED DAILY. DEFICIENT AREAS SHALL BE REPAIRED OR REPLACED IMMEDIATELY.

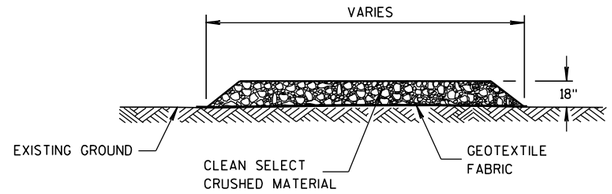
TRACKING PAD TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

TRACKING PAD SHALL BE THE FULL WIDTH OF THE EGRESS POINT.

SURFACE WATER MUST BE PREVENTED FROM PASSING THROUGH THE TRACKING PAD. FLOWS SHALL BE DIVERTED AWAY, AROUND OR CONVEYED UNDER THE TRACKING PAD.

CULVERT PIPE OR OTHER BMP USED TO DIVERT WATER AWAY, AROUND OR UNDER THE TRACKING PAD SHALL BE DESIGNED TO CONVEY THE 2 YEAR - 24 HOUR EVENT.

THE COST OF ADDITIONAL BMP TO DIVERT WATER ARE INCIDENTAL TO THE TRACKING PAD BID ITEM.



SECTION A-A

TRACKING PAD

TRACKING PAD	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 3/24/2011 DATE FHWA	/S/ Jerry H. Zoda ROADWAY STANDARDS ENGINEER

6

S.D.D. 8 E 14-1

6

S.D.D. 8 E 14-1

METAL APRON ENDWALLS

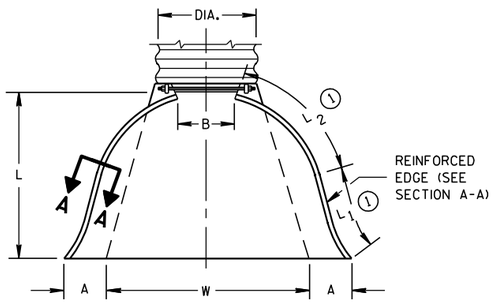
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	36	2 1/2 to 1	1 Pc.
21	.064	.060	9	12	6	36	18	29 5/8	42	2 1/2 to 1	1 Pc.
24	.064	.075	10	13	6	41	18	37 1/4	48	2 1/2 to 1	1 Pc.
30	.079	.075	12	16	8	51	18	52 1/4	60	2 1/2 to 1	1 Pc.
36	.079	.105	14	19	9	60	24	59 3/4	72	2 1/2 to 1	2 Pc.
42	.109	.105	16	22	11	69	24	75 5/8	84	2 1/2 to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 1/4 to 1	3 Pc.
54	.109	.105	18	30	12	84	30	85 1/2	102	2 1/4 to 1	3 Pc.
60	.109×	.105×	18	33	12	87	—	—	114	2 to 1	3 Pc.
66	.109×	.105×	18	36	12	87	—	—	120	2 to 1	3 Pc.
72	.109×	.105×	18	39	12	87	—	—	126	2 to 1	3 Pc.
78	.109×	.105×	18	42	12	87	—	—	132	1 1/2 to 1	3 Pc.
84	.109×	.105×	18	45	12	87	—	—	138	1 1/2 to 1	3 Pc.
90	.109×	.105×	18	37	12	87	—	—	144	1 1/2 to 1	3 Pc.
96	.109×	.105×	18	35	12	87	—	—	150	1 1/2 to 1	3 Pc.

× EXCEPT CENTER PANEL SEE GENERAL NOTES

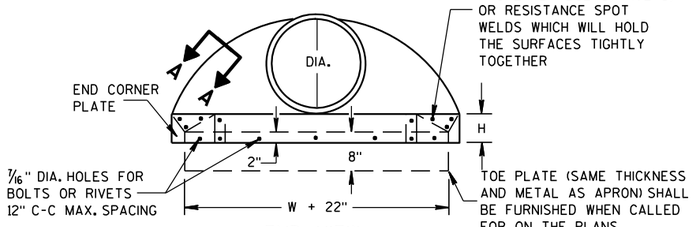
REINFORCED CONCRETE APRON ENDWALLS

PIPE DIA. (IN.)	DIMENSIONS (Inches) T	A	B	C	D	E	G	APPROX. SLOPE
12	2	4	24	48 7/8	72 1/8	24	2	3 to 1
15	2 1/4	6	27	46	73	30	2 1/4	3 to 1
18	2 1/2	9	27	46	73	36	2 1/2	3 to 1
21	2 3/4	9	36	37 1/2	73 1/2	42	2 3/4	3 to 1
24	3	9 1/2	43 1/2	30	73 1/2	48	3	3 to 1
27	3 1/4	10 1/2	49 1/2	24	73 1/2	54	3 1/4	3 to 1
30	3 1/2	12	54	19 3/4	73 1/2	60	3 1/2	3 to 1
36	4	15	63	34 3/4	97 3/4	72	4	3 to 1
42	4 1/2	21	63	35	98	78	4 1/2	3 to 1
48	5	24	72	26	98	84	5	3 to 1
54	5 1/2	27	65	* 33 1/4 - ** 35	* 98 1/4 - ** 100	90	5 1/2	2 2/5 to 1
60	6	* 30 - ** 35	60	39	99	96	5	2 to 1
66	6 1/2	* 24 - ** 30	* 72 - ** 78	* 21 - ** 27	99	102	5 1/2	2 to 1
72	7	* 24 - ** 36	78	21	99	108	6	2 to 1
78	7 1/2	* 24 - ** 36	78	21	99	114	6 1/2	2 to 1
84	8	36	90 1/2	21	111 1/2	120	6 1/2	1 1/2 to 1
90	8 1/2	41	87 1/2	24	111 1/2	132	6 1/2	1 1/2 to 1

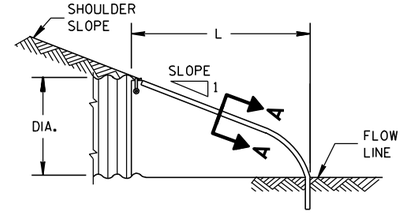
*MINIMUM
**MAXIMUM



PLAN VIEW

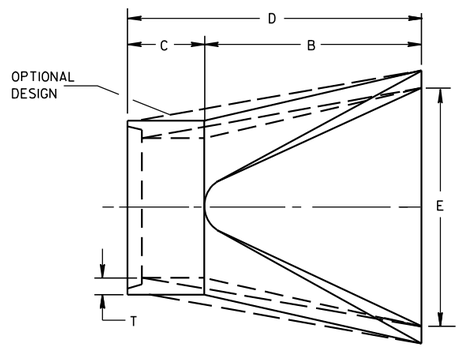


END VIEW

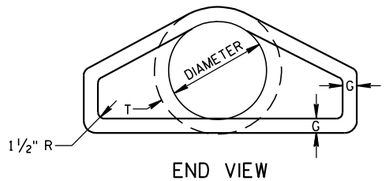


SIDE ELEVATION

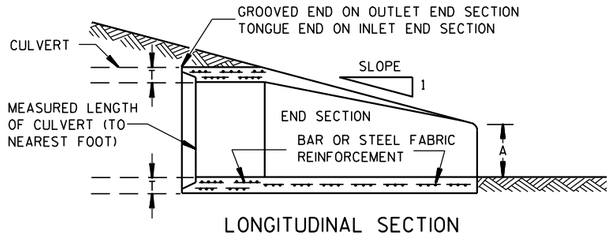
METAL ENDWALLS



PLAN

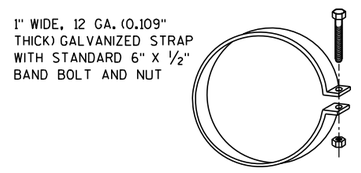


END VIEW



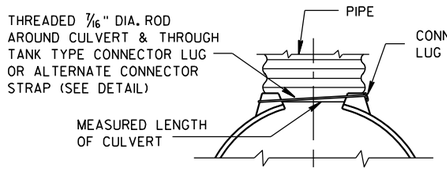
LONGITUDINAL SECTION

CONCRETE ENDWALLS

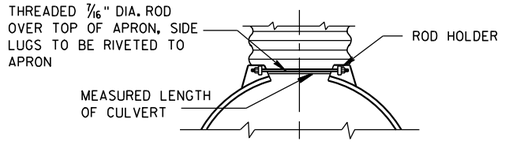


ALTERNATE FOR TYPE 1 CONNECTION

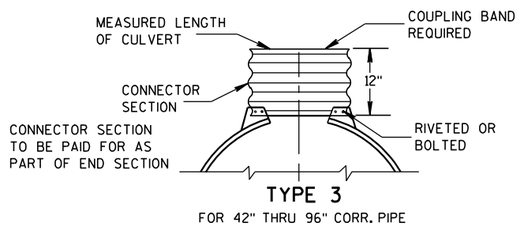
END SECTION CONNECTOR STRAP



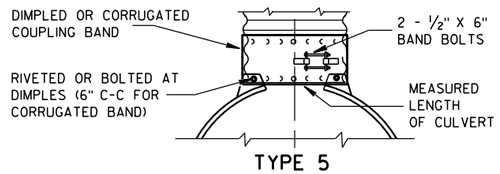
TYPE 1
FOR 12" THRU 24" CORR. PIPE



TYPE 2
FOR 30" THRU 96" CORR. PIPE



TYPE 3
FOR 42" THRU 96" CORR. PIPE



TYPE 5
ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

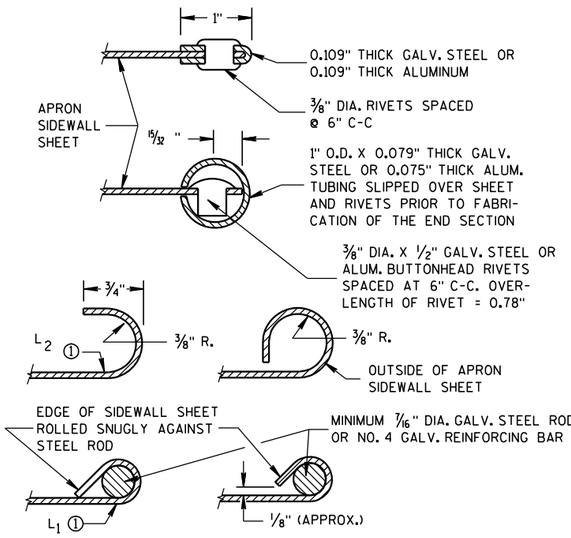
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5 AS APPLICABLE.

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

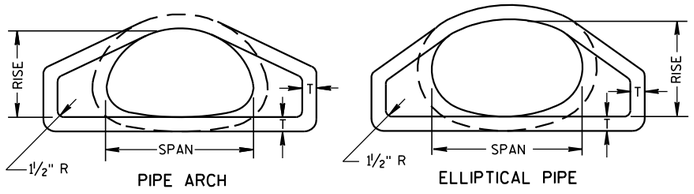
① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR CULVERT PIPE

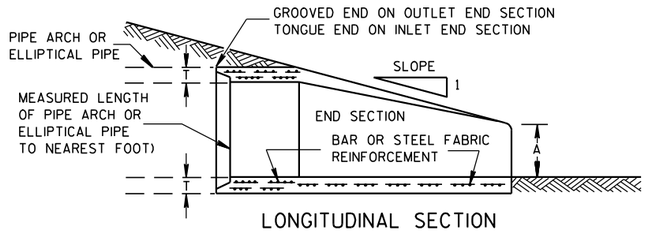
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/30/94 DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

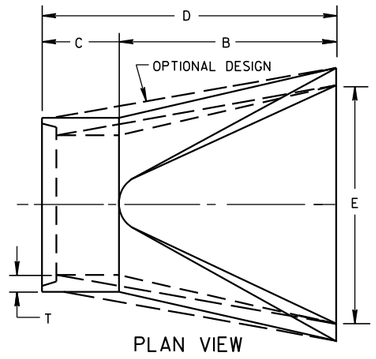
6
S.D.D. 8 F 1-11



END VIEW

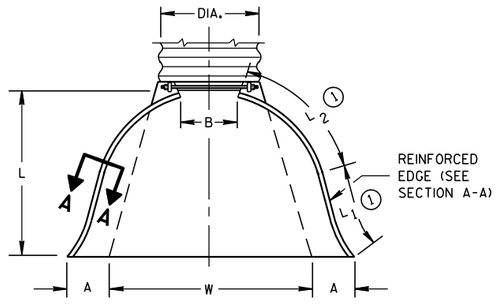


LONGITUDINAL SECTION

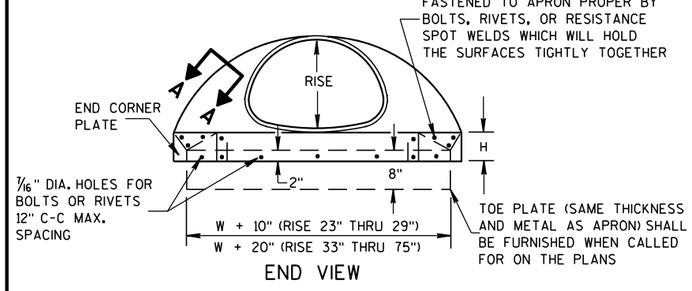


PLAN VIEW

CONCRETE ENDWALLS

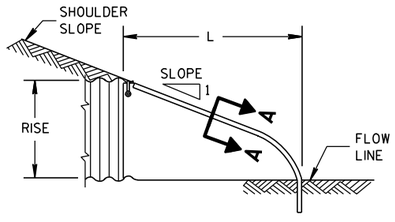


PLAN VIEW



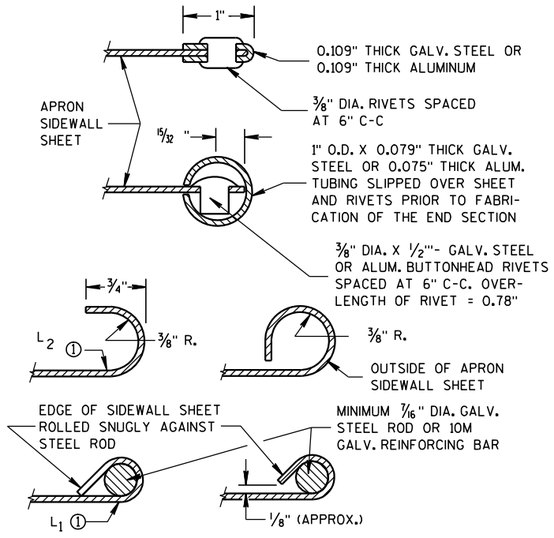
END CORNER PLATES MAY BE FASTENED TO APRON PROPER BY BOLTS, RIVETS, OR RESISTANCE SPOT WELDS WHICH WILL HOLD THE SURFACES TIGHTLY TOGETHER

END VIEW



SIDE ELEVATION

METAL ENDWALLS



SECTION A-A

2- 2/3" X 1/2" CORRUGATIONS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
15	17	13	.064	.060	7	9	6	19	14	16	30	2½ to 1	1 Pc.
18	21	15	.064	.060	7	10	6	23	14	19⅜	36	2½ to 1	1 Pc.
21	24	18	.064	.060	8	12	6	28	18	21¾	42	2½ to 1	1 Pc.
24	28	20	.064	.060	9	14	6	32	18	27½	48	2½ to 1	1 Pc.
30	35	24	.079	.075	10	16	6	39	18	37⅝	60	2½ to 1	1 Pc.
36	42	29	.079	.075	12	18	8	46	24	45⅜	75	2½ to 1	1 Pc.
42	49	33	.109	.105	13	21	9	53	24	54¾	85	2½ to 1	2 Pc.
48	57	38	.109	.105	18	26	12	63	24	68	90	2½ to 1	3 Pc.
54	64	43	.109	.105	18	30	12	70	24	72¾	102	2¼ to 1	3 Pc.
60	71	47	.109*	.105*	18	33	12	77	30	82¼	114	2¼ to 1	3 Pc.
66	77	52	.109*	.105*	18	36	12	77	—	—	126	2 to 1	3 Pc.
72	83	57	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.

3" X 1" CORRUGATIONS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
48	53	41	.109	.105	18	26	12	63	24	72¾	90	2½ to 1	2 Pc.
54	60	46	.109	.105	18	30	12	70	30	82¼	102	2 to 1	2 Pc.
60	66	51	.109*	.105*	18	33	12	77	—	—	114	1½ to 1	3 Pc.
66	73	55	.109*	.105*	18	36	12	77	—	—	126	1½ to 1	3 Pc.
72	81	59	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.
78	87	63	.109*	.105*	22	38	12	77	—	—	148	1½ to 1	3 Pc.
84	95	67	.109*	.105*	22	34	12	77	—	—	162	1½ to 1	3 Pc.
90	103	71	.109*	.105*	22	38	12	77	—	—	174	1½ to 1	3 Pc.
96	112	75	.109*	.105*	24	40	12	77	—	—	174	1½ to 1	3 Pc.

NOTE: ALL SPLICES TO BE LAP RIVETED OR BOLTED.

* EXCEPT CENTER PANEL SEE GENERAL NOTES

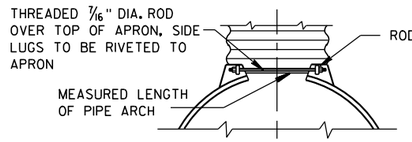
REINFORCED CONCRETE PIPE ARCH

EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	29	18	3	8½	39	33	72	48	3 to 1
30	36	22	3½	9½	50	46	96	60	3 to 1
36	44	27	4	11⅛	60	36	96	72	3 to 1
42	51	31	4½	15 13/16	60	36	96	78	3 to 1
48	58	36	5	21	60	36	96	84	3 to 1
54	65	40	5½	25½	60	36	96	90	3 to 1
60	73	45	6	31	60	36	96	96	3 to 1
72	88	54	7	31	60	39	99	120	2 to 1
84	102	62	8	28½	83	19	102	144	2 to 1

REINFORCED CONCRETE ELLIPTICAL PIPE

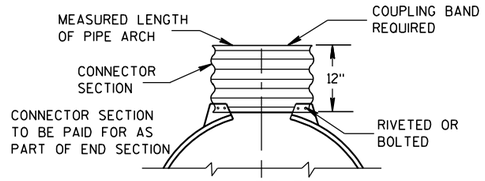
EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	30	19	3¼	8½	39	33	72	48	3 to 1
30	38	24	3¾	9½	54	18	72	60	3 to 1
36	45	29	4½	11⅛	60	24	84	72	2½ to 1
42	53	34	5	15¾	60	36	96	78	2½ to 1
48	60	38	5½	21	60	36	96	84	2½ to 1
54	68	43	6	25½	60	36	96	90	2½ to 1
60	76	48	6½	30	60	36	96	96	2½ to 1

**NOMINAL SIZE



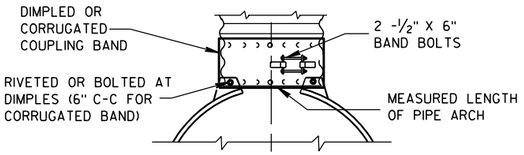
TYPE 2

FOR 17" X 13" THRU 112" X 75" PIPE ARCH



TYPE 3

FOR 64" X 43" THRU 112" X 75" PIPE ARCH



TYPE 5

ALTERNATE FOR:

ALL SIZES CORRUGATED PIPE ARCHES

NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL, AND CORRUGATED BAND FITS INSIDE ENDWALL.

CONNECTION DETAILS

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

CONCRETE APRON ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM APRON ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE ARCH PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 77" X 52" THROUGH 112" X 75" APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

① FOR PIPE ARCH SIZES UP TO 73" X 55" A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

11/30/94 — DATE

/S/ Rory L. Rhinesmith — CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

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S.D.D. 8 F 2-1

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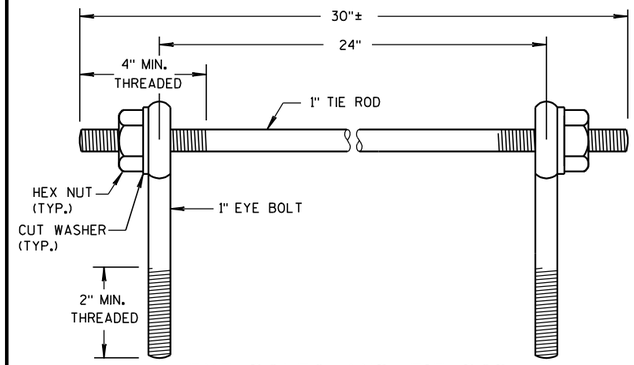
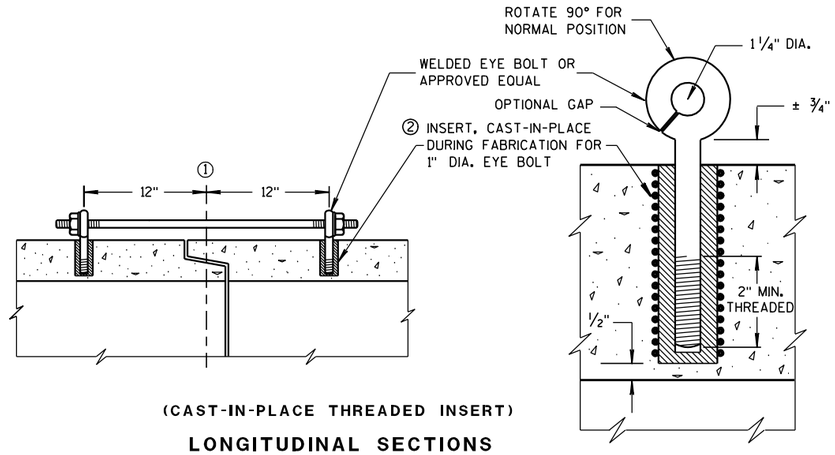
S.D.D. 8 F 2-1



EYE BOLTS AND TIE ROD



(CAST-IN-PLACE THREADED INSERT)

LONGITUDINAL SECTIONS

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 1)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT AND STORM SEWER PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED IN THE STANDARD SPECIFICATIONS AND THE PLAN. THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR DRAINAGE STRUCTURES. ONLY ALTERNATE 1 AND 3 MAY BE USED FOR CATTLE PASSES, UNLESS OTHERWISE STATED IN THE CONTRACT. THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE THE PIPE BY THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO THE PIPE AND APRON ENDWALLS IF REQUIRED.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

JOINT TIES TO BE HOT-DIP GALVANIZED PER ASTM A 153.

① ℄ OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.

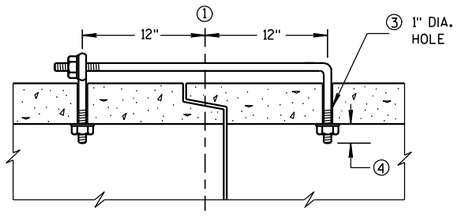
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

③ HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12 INCHES FROM ℄ OF TONGUE AND GROOVE.

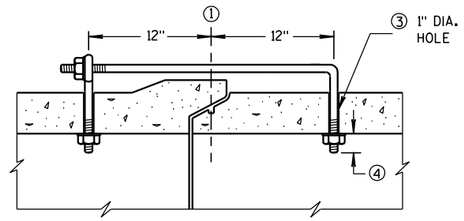
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

⑤ OPENING TO BE ROD DIAMETER PLUS 1 INCH.

⑥ LENGTH ADEQUATE TO EXTEND TO WITHIN 1/2 INCH OF THE INNER SURFACE OF THE PIPE.



(TONGUE & GROOVE PIPE)

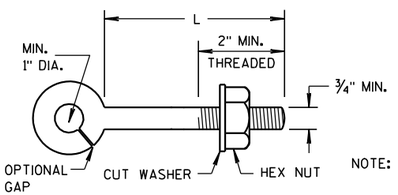


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

EYE BOLT DIMENSION TABLE

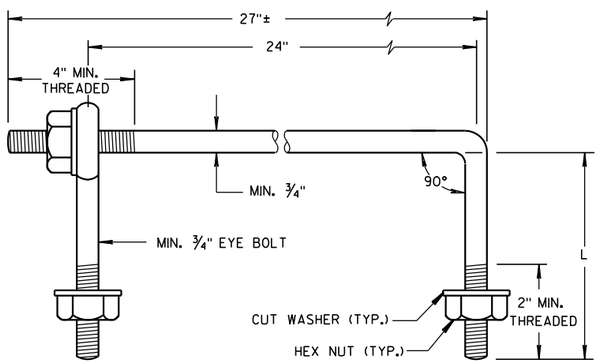
PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	



NOTE:

EYE BOLT

NOTE: TWO EYE BOLTS MAY BE USED WITH A 30" LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.



EYE BOLT AND TIE ROD

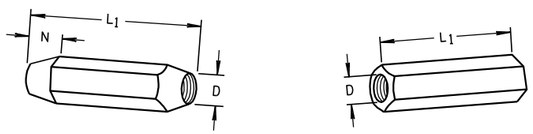
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 2)

ADJUSTABLE TIE ROD TABLE

PIPE DIAMETER	TIE ROD DIAMETER	D	L_1	N
12-60	5/8	5/8	5	1/2
66-84	3/4	3/4	5	1/2
90-108	1	1	7	1 1/16

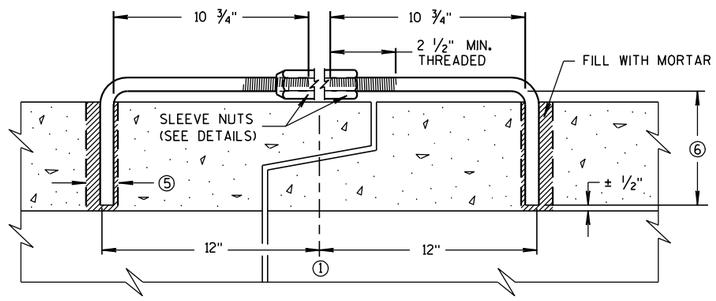
DIMENSIONS SHOWN ARE IN INCHES



TAPERED PLAIN

RIGHT AND LEFT THREADS

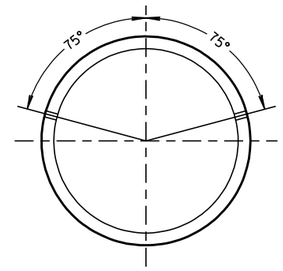
SLEEVE NUTS



LONGITUDINAL SECTION

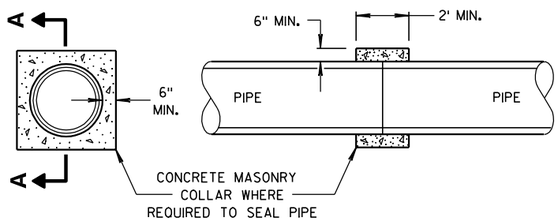
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



PLACEMENT OF (2) CAST-IN-PLACE INSERTS OR HOLES DURING FABRICATION FOR PIPE SECTIONS REQUIRING TIE RODS

TRANSVERSE SECTION



SECTION A-A

CONCRETE COLLAR DETAIL

JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/5/2012 DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER
159
FHWA

6

S.D.D. 8 F 4-7

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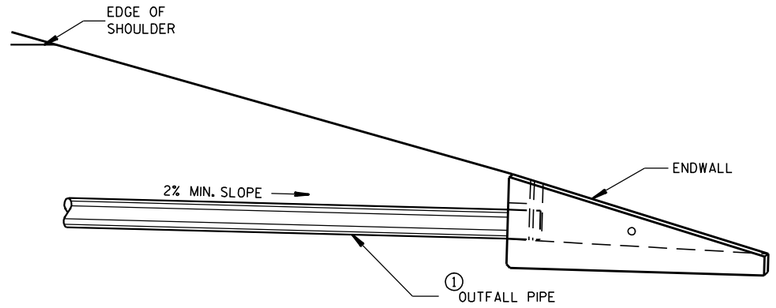
S.D.D. 8 F 4-7

DIMENSIONS IN INCHES											
PIPE DIA.	A	B	C	D	E	F	G	H	J	L	Z
**4	6	12	5 1/4	9	8	32	36	11	2 3/8	6 1/2	4
6	8	14	7 1/4	11	10	42	44	13	3 5/8	8 1/2	6

**APRON ENDWALL FOR 6 INCH DIAMETER PIPE MAY BE SUBSTITUTED FOR THIS SIZE PROVIDED THE HOLE IN THE HEADWALL IS SIZED AND LOCATED TO CONFORM TO THE 4 INCH DIAMETER PIPE DIMENSIONS (C & J)



INSTALLATION DETAIL

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

ALTERNATIVE DESIGNS WHICH PROVIDE EQUIVALENT CAPACITY AND STRENGTH MAY BE USED WHEN APPROVED BY THE ENGINEER. ENDWALL MAY BE EITHER PRECAST OR CAST-IN-PLACE CONCRETE.

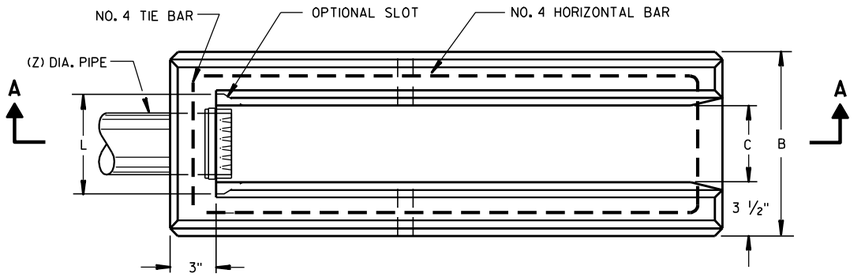
THE UNDERDRAIN PIPE SHALL BE FULLY INSERTED AND SEALED INTO THE ENDWALL WITH CEMENT MORTAR PRIOR TO BACKFILLING AROUND THE STRUCTURE.

THE UPPERMOST POINT OF THE ENDWALL SHALL BE PLACED FLUSH WITH THE ROADWAY SLOPE. ADJACENT EMBANKMENT SLOPES SHALL BE SHAPED TO FIT THE SIDES AND TOE OF THE ENDWALL. EXACT PLACEMENT OF THE OUTFALL PIPE AND ENDWALL SHALL BE DETERMINED BY THE ENGINEER TO MATCH THE ELEVATIONS AND FLOW DIRECTION OF THE ROADSIDE DITCH.

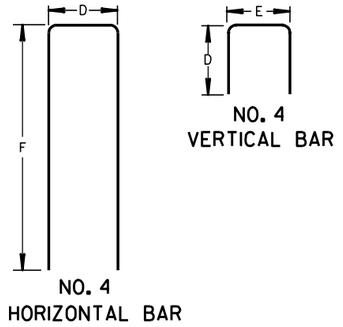
① THE OUTFALL PIPE UNDERDRAIN AND FITTINGS SHALL CONFORM TO THE REQUIREMENTS OF THE SPECIFICATION FOR POLY (VINYL CHORIDE) (PVC) PLASTIC DRAIN, WASTE AND VENT PIPE AND FITTINGS, ASTM DESIGNATION: D 2665, SCHEDULE 40 PVC OR THE STANDARD SPECIFICATION FOR TYPE PSM POLY (VINYL CHORIDE) (PVC) SEWER PIPE AND FITTINGS, ASTM DESIGNATION: D 3034, TYPE PSM SDR 23.5 PVC SEWER PIPE, ALL JOINTS SHALL BE SOLVENT WELDED.

THE OUTFALL PIPE INCLUDING ALL FITTINGS AND THE RODENT SHIELD SHALL BE MEASURED AND PAID FOR AS PIPE UNDERDRAIN UNPERFORATED.

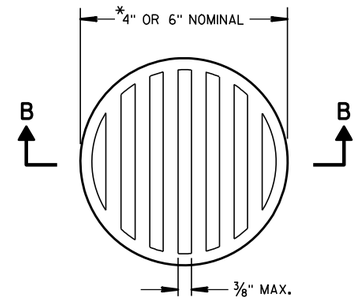
② THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE OUTFALL PIPE. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.



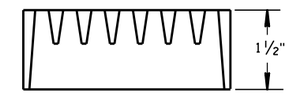
PLAN VIEW



BAR STEEL REINFORCEMENT DETAILS



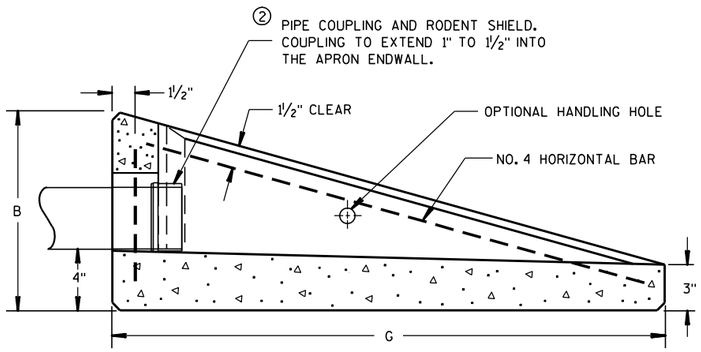
NOTE: ORIENT SHIELD SO SLOTS ARE VERTICAL.



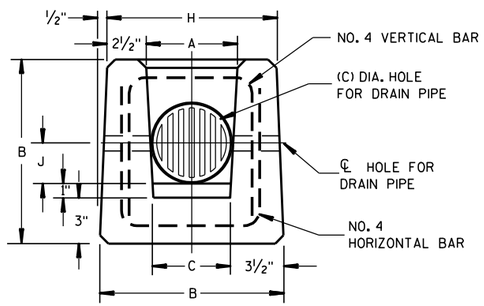
SECTION B-B

② RODENT SHIELD

*NOTE: DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING.



SECTION A-A



END VIEW

CONCRETE APRON ENDWALL FOR UNDERDRAIN

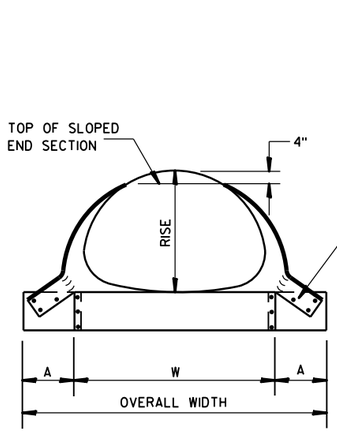
REINFORCED CONCRETE APRON ENDWALL FOR PIPE UNDERDRAIN

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

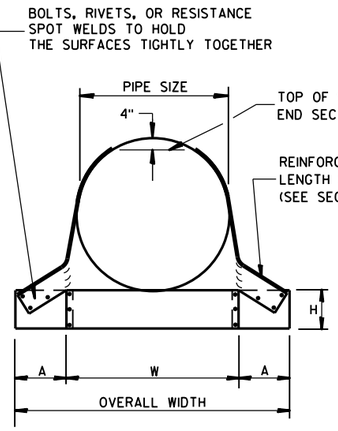
APPROVED
3/10/98 DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

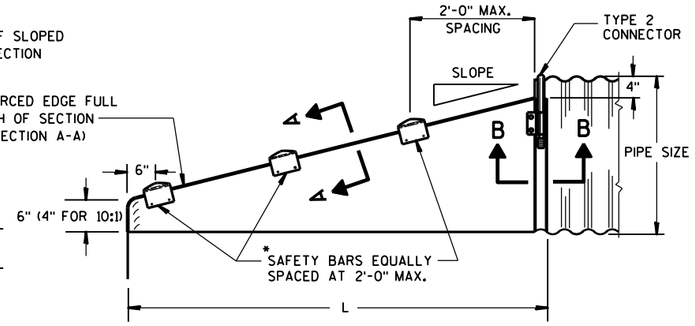
S.D.D. 8 F 6-4



FRONT VIEW



FRONT VIEW



SIDE VIEW

GENERAL NOTES

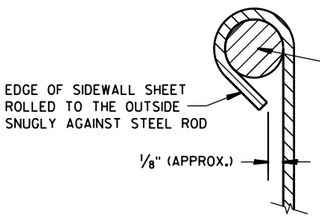
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

SLOPED END SECTIONS SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS, SECTION 521 FOR STEEL APRON ENDWALLS.

SAFETY BARS SHALL BE FABRICATED FROM GALVANIZED STEEL PIPE MEETING THE REQUIREMENTS OF ASTM A-53, GRADE B, SCHEDULE 40 OR APPROVED EQUAL.

STEEL APRON ENDWALLS FOR CULVERT PIPE
SLOPED SIDE DRAINS

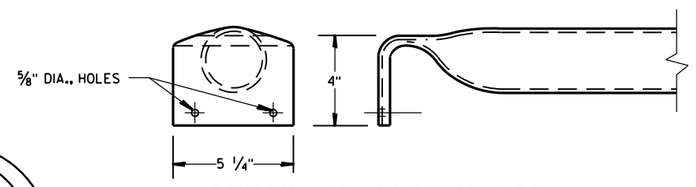
PIPE DIA. (IN.)	MIN. THICK. (Inches)	DIMENSIONS (Inches)				L DIMENSIONS					
		A	H	W	OVERALL WIDTH	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES
15	.064	8	6	21	37	4:1	20	6:1	30	10:1	70
18	.064	8	6	24	40	4:1	32	6:1	48	10:1	100
21	.064	8	6	27	43	4:1	44	6:1	66	10:1	130
24	.064	8	6	30	46	4:1	56	6:1	84	10:1	160
30	.109	12	9	36	60	4:1	80	6:1	120	10:1	220
36	.109	12	9	42	66	4:1	104	6:1	156	10:1	280
42	.109	16	12	48	80	4:1	128	6:1	192	——	——
48	.109	16	12	54	86	4:1	152	6:1	228	——	——
54	.109	16	12	60	92	4:1	176	6:1	264	——	——
60	.109	16	12	66	98	4:1	200	6:1	300	——	——



SECTION A-A

*NOTE:
THREE SAFETY BARS ARE SHOWN. ACTUAL NUMBER OF BARS REQUIRED AT A 2'-0" C-C MAX. SPACING WILL VARY DEPENDING ON THE LENGTH OF THE END SECTION.

3" GALVANIZED PIPE. FLATTEN ENDS, THEN BEND OUTSIDE 4" TO MATCH END SECTION SIDES.

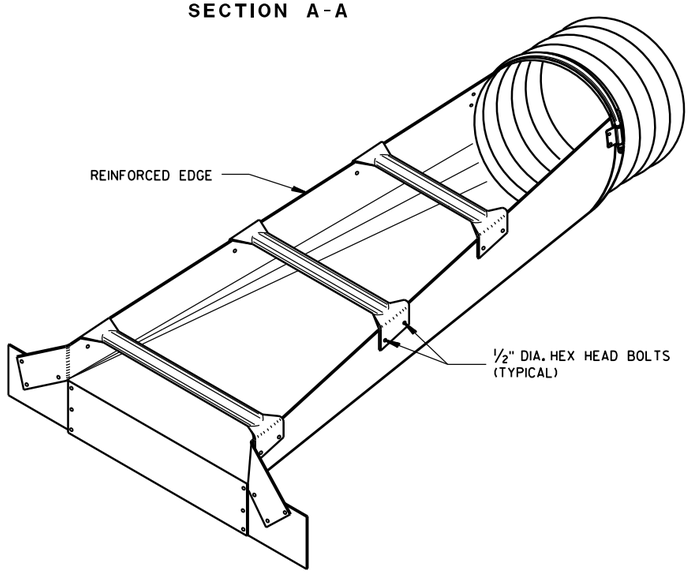


DETAIL OF SAFETY BAR

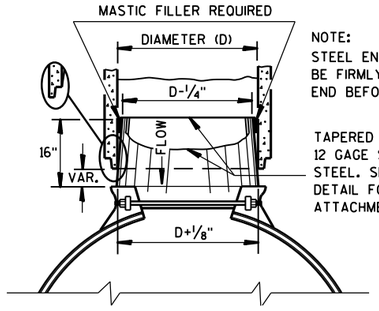
STEEL APRON ENDWALLS FOR PIPE ARCH
SLOPED SIDE DRAINS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) ①	DIMENSIONS (Inches) A	H	W	OVERALL WIDTH	L DIMENSIONS SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES
15	17	13	.064 *	7	6	30	44	4:1	19	6:1	30	10:1 ②	70
18	21	15	.064 *	8	6	27	43	4:1	20	6:1	30	10:1	70
21	24	18	.064 *	8	6	30	46	4:1	32	6:1	48	10:1	100
24	28	20	.064 *	8	6	34	50	4:1	40	6:1	60	10:1	120
30	35	24	.079 *	12	9	41	65	4:1	56	6:1	84	10:1	160
36	42	29	.109 *	12	9	48	72	4:1	76	6:1	114	10:1	210
42	49	33	.109	16	12	55	87	4:1	92	6:1	138	——	——
48	57	38	.109	16	12	63	95	4:1	112	6:1	168	——	——
54	64	43	.109	16	12	70	102	4:1	132	6:1	198	——	——

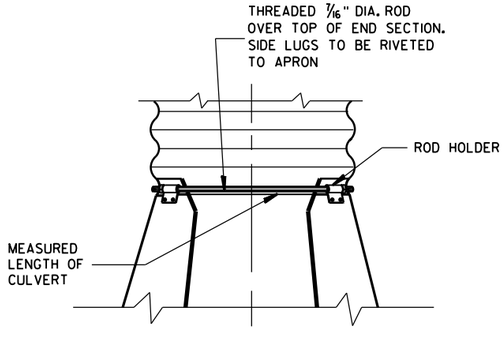
① * MINIMUM THICKNESS OF ALL 10:1 SLOPED SIDE DRAINS IS 0.109".
② ACTUAL SLOPE GREATER THAN 10:1.



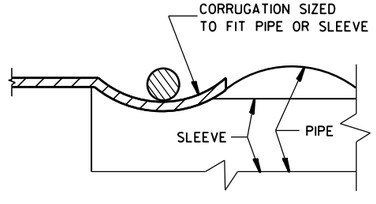
ISOMETRIC VIEW



STEEL ADAPTER SLEEVE FOR CONCRETE PIPE



TYPE 2
CONNECTION DETAIL



SECTION B-B

STEEL APRON ENDWALLS FOR CULVERT PIPE AND PIPE ARCH SLOPED SIDE DRAINS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
9/14/2012 DATE
/S/ Jerry H. Zoda
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

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S.D.D. 8 F 7-5

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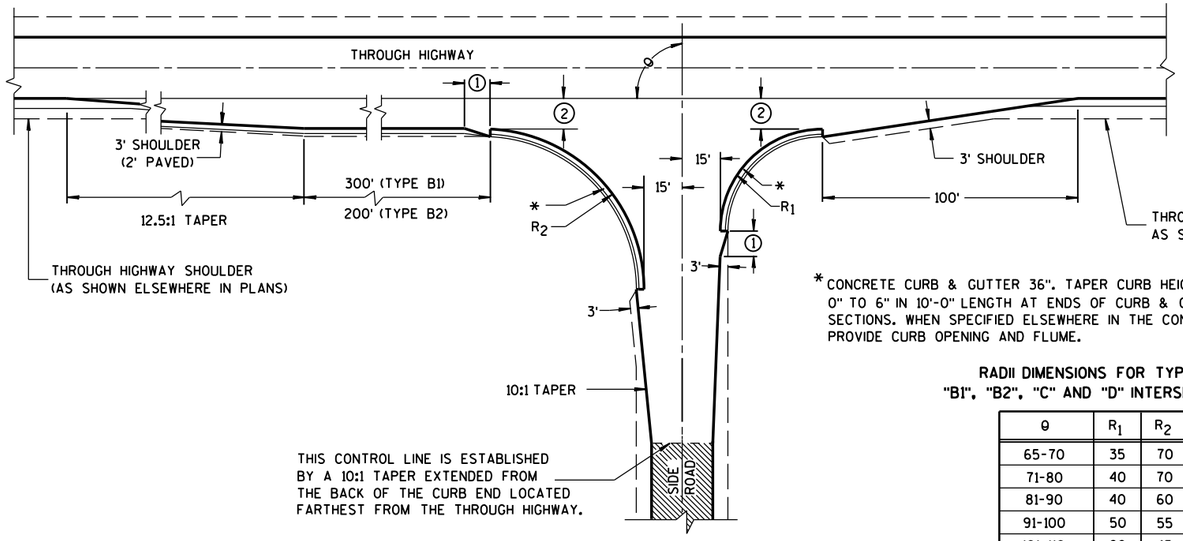
S.D.D. 8 F 7-5

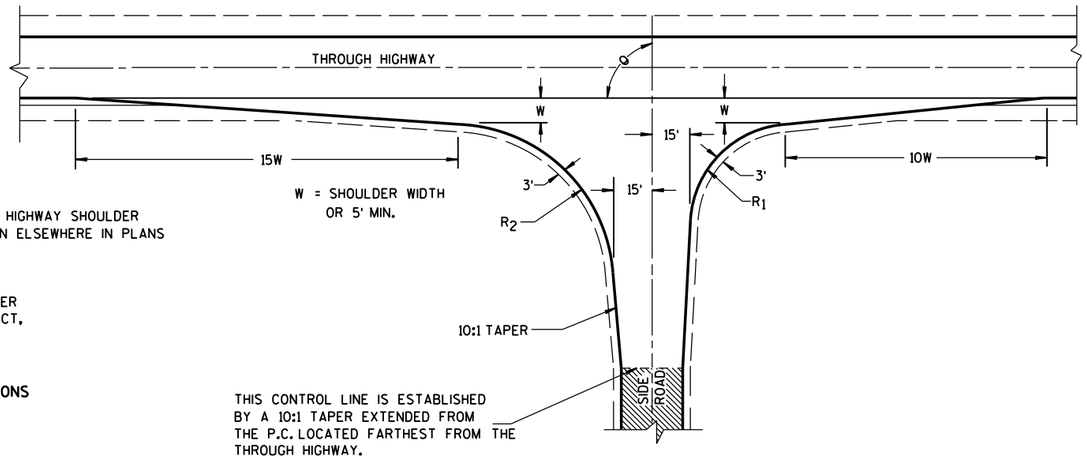


TYPE "B1" AND "B2"

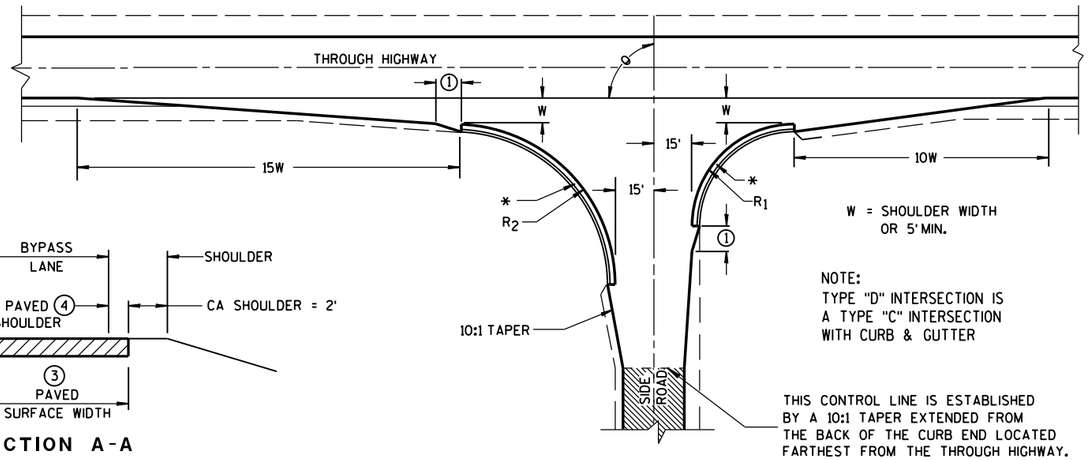
*CONCRETE CURB & GUTTER 36". TAPER CURB HEIGHT 0" TO 6" IN 10'-0" LENGTH AT ENDS OF CURB & GUTTER SECTIONS. WHEN SPECIFIED ELSEWHERE IN THE CONTRACT, PROVIDE CURB OPENING AND FLUME.

RADII DIMENSIONS FOR TYPES "B1", "B2", "C" AND "D" INTERSECTIONS

θ	R_1	R_2
65-70	35	70
71-80	40	70
81-90	40	60
91-100	50	55
101-110	60	45



TYPE "C"



TYPE "D"

GENERAL NOTES

DESIGNS MAY BE USED INTERCHANGEABLY IN COMBINATION OR SEPARATELY FOR ANY ONE COMPLETE INTERSECTION DEPENDING UPON INTERSECTION ANGLE AND SURFACING OF EACH APPROACH ROADWAY.

SIDE ROAD SURFACING NOTE

WHEN THE SIDE ROAD IS NOT PRESENTLY PAVED, PAVEMENT SHALL BE PLACED TO THE LIMITS SHOWN UNLESS OTHERWISE PROVIDED IN THE CONTRACT. WHERE THE CONSTRUCTION LIMITS ARE BEYOND THE PAVING LIMITS, CRUSHED AGGREGATE SURFACING SHALL BE PLACED BETWEEN THE PAVING LIMITS AND CONSTRUCTION LIMITS.

WHEN THE SIDE ROAD IS PRESENTLY PAVED, NEW PAVEMENT SHALL BE PLACED TO THE LIMITS OF DESIGN AS SHOWN AND BEYOND, IF NECESSARY, TO MEET EXISTING PAVEMENT.

WHEN THE SIDE ROAD IS THE CONSTRUCTION PROJECT, THE INTERSECTION SURFACING SHALL BE THE SAME AS FOR THE PROJECT.

EXISTING PAVED SURFACE

BYPASS LANE

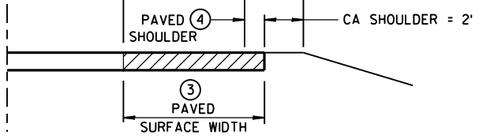
(1) 10-FT TYPICAL.

(2) 12-FT** PLUS ADDITIONAL WIDTH FOR BIKE LANE IF SHOWN ELSEWHERE IN THE PLAN.

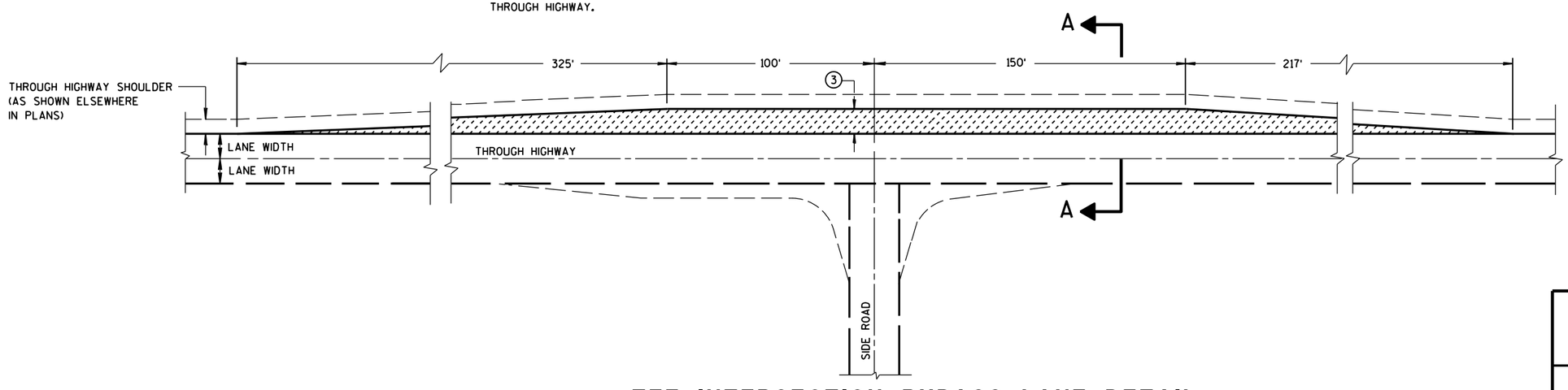
**10-FT MAY BE USED ON TYPE B2 ON RESURFACING PROJECTS IF SPECIFIED IN THE CONTRACT.

(3) BYPASS LANE PAVED SURFACE WIDTH OUTSIDE OF TRAVEL LANE
-ASPHALT = 12-FT PLUS PAVED SHOULDER WIDTH.
-PC CPNCRETE = 13-FT PLUS PAVED SHOULDER WIDTH.

(4) BYPASS LANE PAVED SHOULDER WIDTH = THE GREATER OF 1-FT OR THE PAVED SHOULDER WIDTH OF THE THROUGH HIGHWAY.



SECTION A-A
(SHOWING BYPASS LANE AND SHOULDER)



TEE INTERSECTION BYPASS LANE DETAIL

AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND "D" AND TEE INTERSECTION BYPASS LANE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

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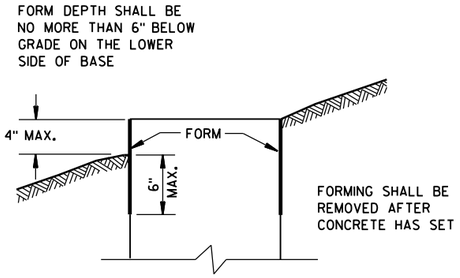
S.D.D. 9 A 1-13a



FORMING DETAIL

QUANTITY REQUIREMENTS	CONCRETE BASE TYPE		
	1	2	5 & 6
APPROX. CUBIC YARDS OF CONCRETE	0.40	0.57	0.40
LBS. OF HOOP BAR STEEL	NONE	23	16
LBS. OF VERTICAL BAR STEEL	NONE	60	18

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER.

TOP SURFACES OF CONCRETE BASES SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE AS SHOWN ON THE PLANS.

THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN AT THE ENTRANCE OF THE BASE.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6 X THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 1 INCH. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

GENERAL NOTES (CONTINUED)

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION OF CABLE OR WIRE.

ENDS OF CONDUIT INSTALLED BELOW GRADE FOR FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE DIRT OR FILL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

A NO. 4 AWG, STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD) FOR TYPE 1, TYPE 2, TYPE 5, AND TYPE 6 BASES.

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER THE BASE OF THE TYPE 2 AND TYPE 5 BASES THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

ANCHOR RODS SHALL BE THREADED 12" IN LENGTH ON EACH END OF THE ROD. ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2.1 OF THE STANDARD SPECIFICATIONS.

WASHERS AND LOCK WASHERS ARE REQUIRED ON ALL ANCHOR RODS.

WHEN ANCHOR RODS USING THE ALTERNATE "L" BEND ARE FURNISHED, THE 4" "L" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH. THE "L" BEND END SHALL NOT BE THREADED.

ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

WELDING OF THE ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TIE WIRES SHALL BE USED.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).

(1) THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES EXCEPT WITH WRITTEN APPROVAL BY THE ENGINEER.

(2) (4) 1" DIA. X 3'-6" ANCHOR RODS.

(3) (4) 1" DIA. X 5'-0" ANCHOR RODS.

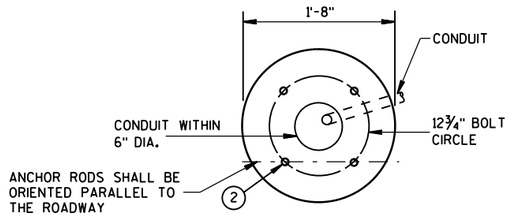
(4) (6) NO. 6 X 6'-8" BAR STEEL REINFORCEMENT.

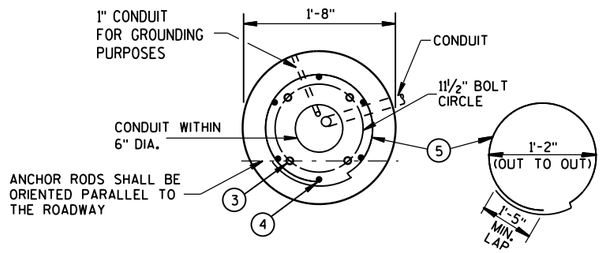
(5) (7) NO. 4 X 5'-1" BAR STEEL REINFORCEMENT @ 1'-0" C-C.

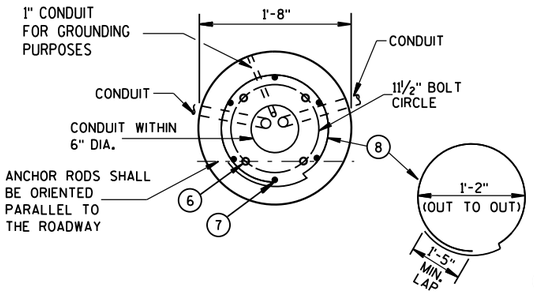
(6) (4) 1" DIA. X 3'-6" ANCHOR RODS.

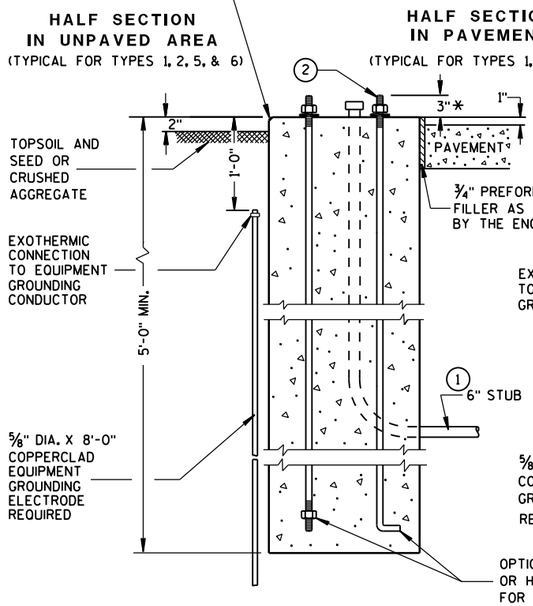
(7) (6) NO.4 X 4'-8" BAR STEEL REINFORCEMENT.

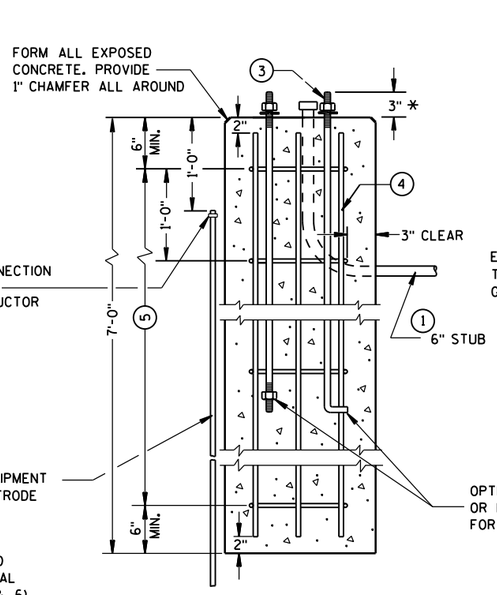
(8) (5) NO. 4 X 5'-1" BAR STEEL REINFORCEMENT @ 1'-0" C-C.



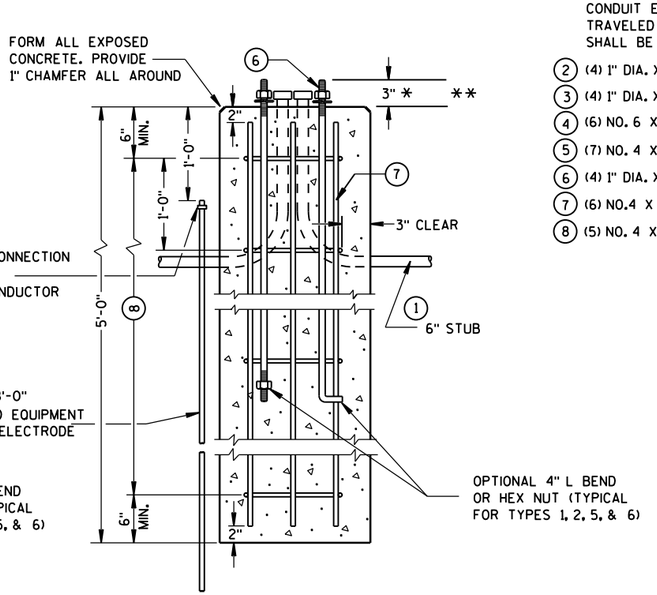








TYPE 2



TYPE 5 & 6

CONCRETE BASES

* ANY ANCHOR ROD PROJECTION SHORTER THAN 2¾" OR LONGER THAN 3¼" SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

** FOR NONBREAKAWAY INSTALLATIONS, 4½" ± ANCHOR ROD PROJECTION WITH THE USE OF LEVELING NUTS. RODENT SCREEN REQUIRED.

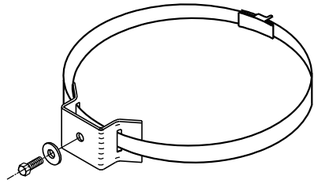
CONCRETE BASES, TYPES 1, 2, 5, & 6

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

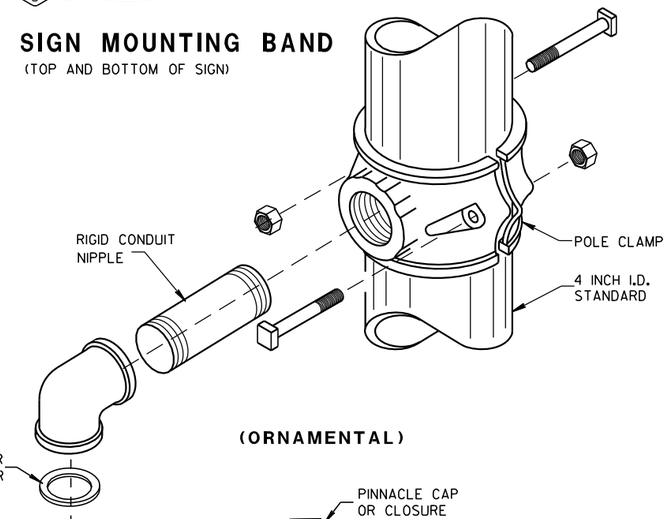
APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

6

S.D.D. 9 C 2-7



TYPICAL SIGN MOUNTING BAND
(TOP AND BOTTOM OF SIGN)



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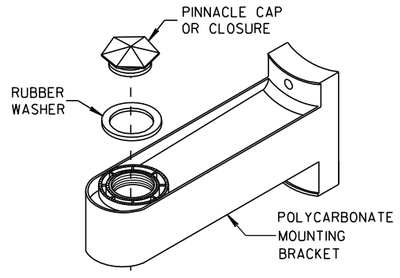

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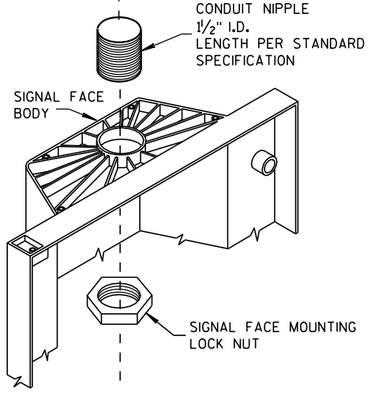
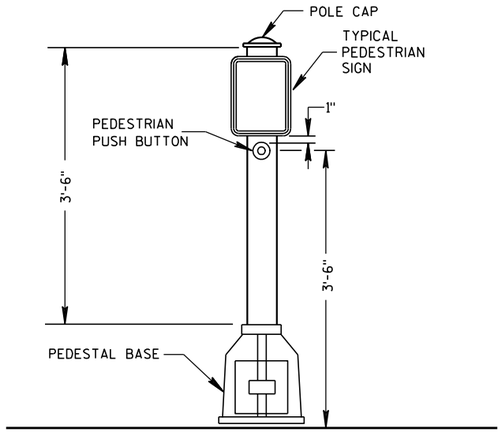


SIGNAL FACE MOUNTING DETAILS



PEDESTRIAN PUSH BUTTON TYPICAL MOUNTING

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

SEE THE SIGNAL PLAN FOR REQUIRED SIGNAL FACE SIZES.

LOCATIONS SHALL BE AS SHOWN ON THE PLANS.

ALL PEDESTAL BASES SHALL BE MOUNTED ON CONCRETE BASE - TYPE 1.

FOR APPROVED MOUNTING HARDWARE, SEE THE CONTRACT SPECIFICATIONS.

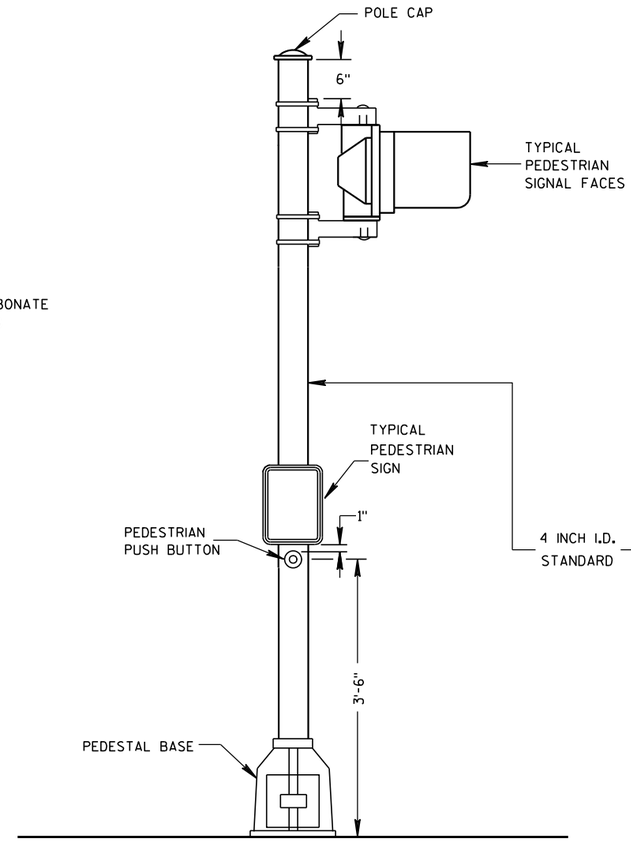
POLYCARBONATE SIGNAL FACE MOUNTING BRACKETS SHALL BE USED UNLESS ORNAMENTAL POLE CLAMPS ARE SPECIFIED.

LENGTH OF TRAFFIC STANDARDS SHALL BE AS SHOWN ON THE PLANS.

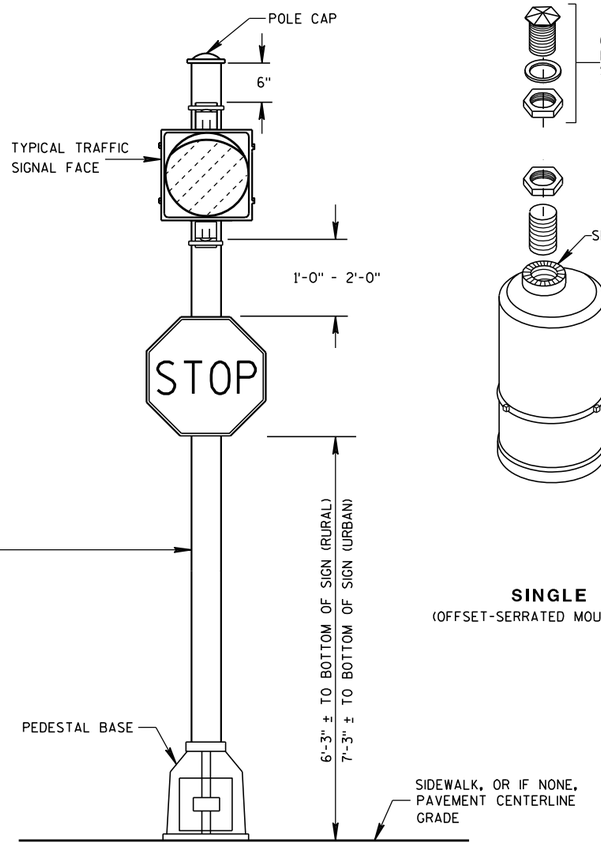
MOUNTINGS AND BRACKETS SHALL BE AS SHOWN ON THE PLANS OR DESCRIBED IN THE SPECIAL PROVISIONS (BY THE DISTRICT TRAFFIC ENGINEER).

PEDESTRIAN SIGNS SHALL BE AS DESIGNATED IN THE PLANS.

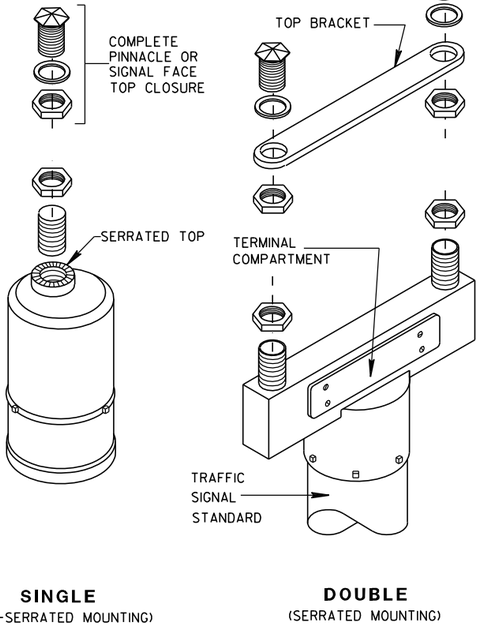
FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.



PEDESTRIAN FACE STANDARD-10 FT.
(WALK-DON'T WALK)



STANDARD FLASHER.
10 FOOT, 13 FOOT OR 15 FOOT AS REQUIRED



SINGLE
(OFFSET-SERRATED MOUNTING)

DOUBLE
(SERRATED MOUNTING)

SLIPFITTERS

TRAFFIC SIGNAL STANDARD PEDESTRIAN AND FLASHER TYPICAL MOUNTING DETAILS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

5/11/10
DATE

/S/ John Corbin
STATE ELECTRICAL ENGI

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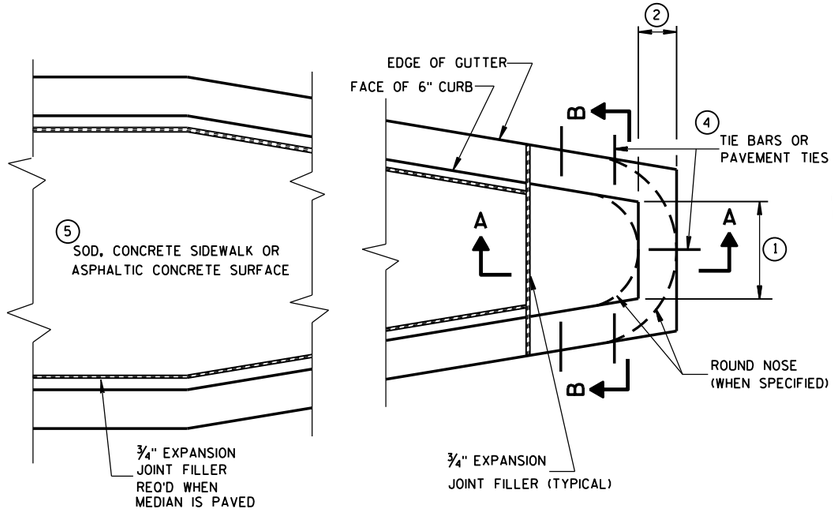
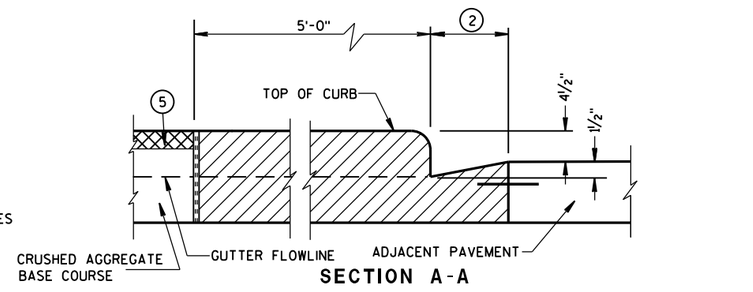
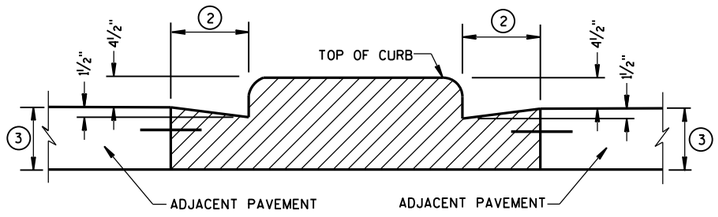






CONCRETE MEDIAN BLUNT NOSE DETAIL

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(1) SEE PLAN FOR MEDIAN NOSE WIDTH AND RADIUS (FOR ROUND NOSE ALTERNATE).

(2) WIDTH OF GUTTER TO MATCH EXISTING ADJACENT GUTTER OR AS SPECIFIED ELSEWHERE IN THE PLAN.

(3) DEPTH EQUAL TO ADJACENT PAVEMENT. ADJACENT PAVEMENT STRUCTURE DETAILS ARE SHOWN ON THE PLAN. TYPICAL OPTIONS ARE:

(1) NEW OR EXISTING CONCRETE PAVEMENT.

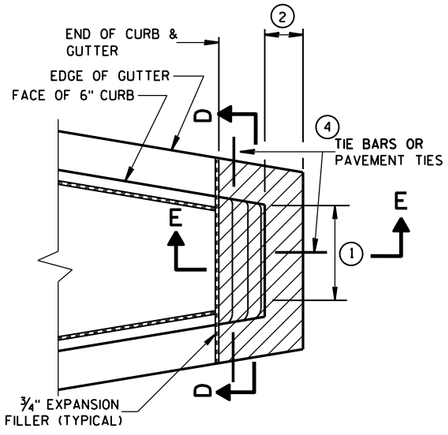
(2) ASPHALTIC CONCRETE PAVEMENT OVER NEW OR EXISTING CONCRETE BASE COURSE.

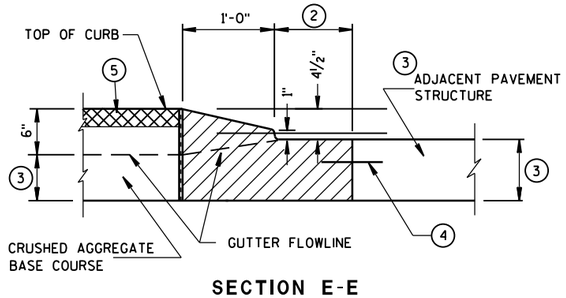
(3) ASPHALTIC CONCRETE PAVEMENT OVER CRUSHED AGGREGATE BASE COURSE.

(4) TIE BARS OR PAVEMENT TIES REQUIRED IN NEW CONCRETE PAVEMENT OR CONCRETE BASE COURSE. TIE BARS SHALL BE NO. 4 X 2'-0" SPACED AT 2'-0" C-C.

PAVEMENT TIES REQUIRED IN EXISTING CONCRETE BASE COURSE. PAVEMENT TIES SHALL BE NO. 6 X 1'-0" SPACED AT 3'-0" C-C INSTALLED ON A HORIZONTAL SKEW OF 6:1. THE DIRECTION OF SKEW SHALL ALTERNATE AFTER EVERY ONE OR TWO BARS.

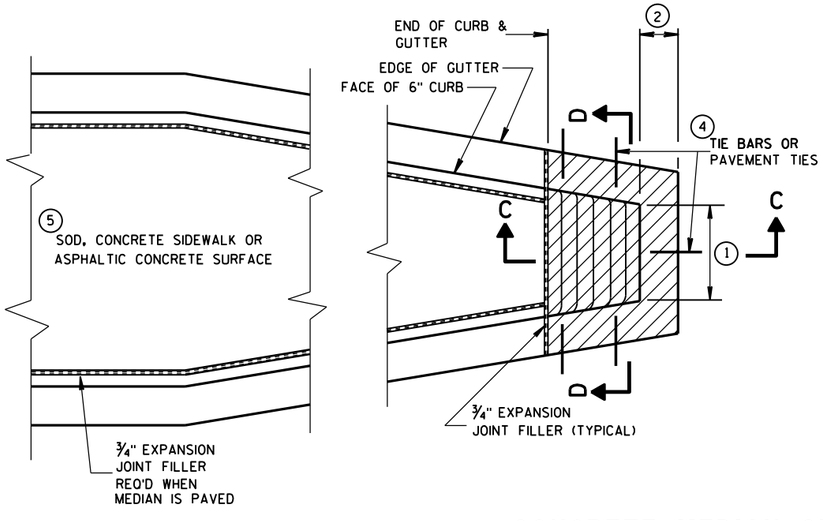
(5) SURFACE TYPE AND DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.



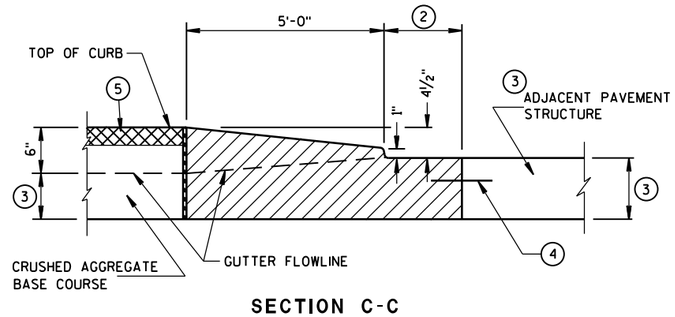


SECTION E-E

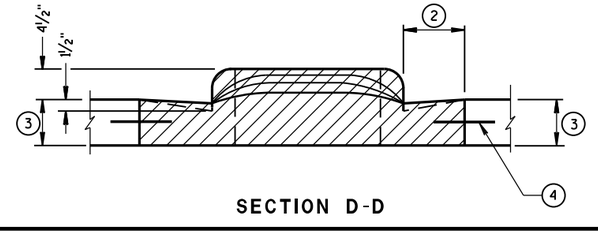
CONCRETE MEDIAN SLOPED NOSE TYPE 2



CONCRETE MEDIAN SLOPED NOSE TYPE 1



SECTION C-C



SECTION D-D

CONCRETE MEDIAN NOSE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

6/8/2006
DATE

/S/ Jerry H. Zoga
ROADWAY STANDARDS D ENGINEER

FHWA

6

S.D.D. 11 B 2-2

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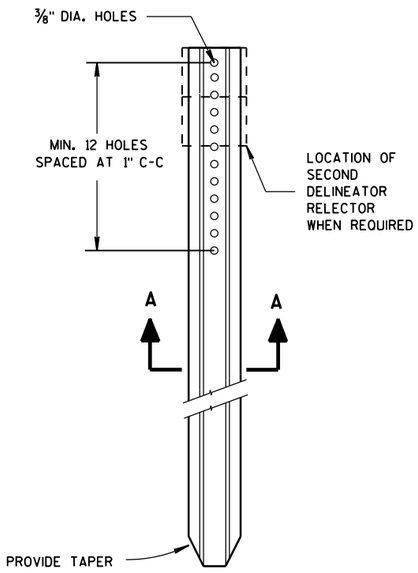
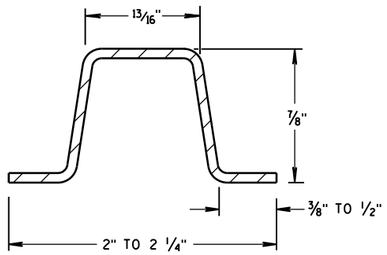
S.D.D. 11 B 2-2

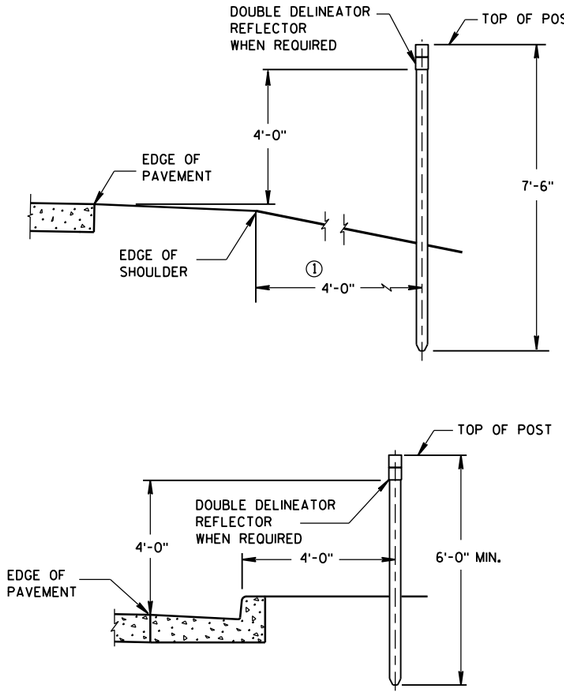


DELINEATOR POST



SECTION A-A

WEIGHT 1.12 LBS PER FT. ± 0.1 LB.

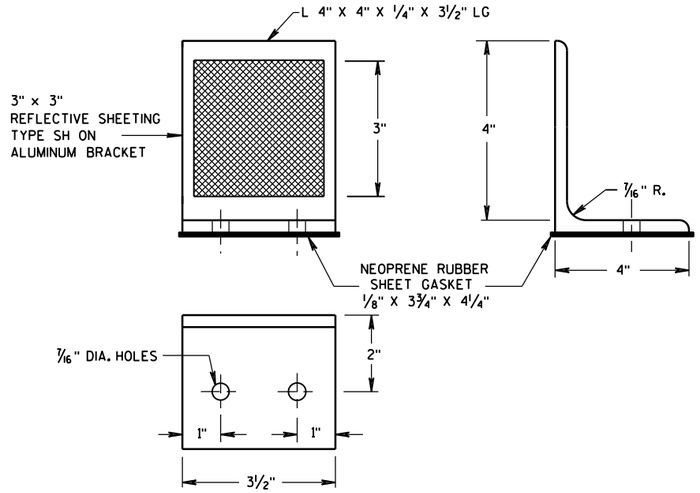


TYPICAL INSTALLATIONS OF DELINEATOR POSTS

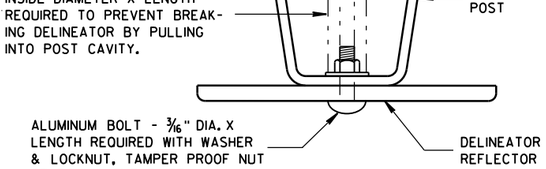
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

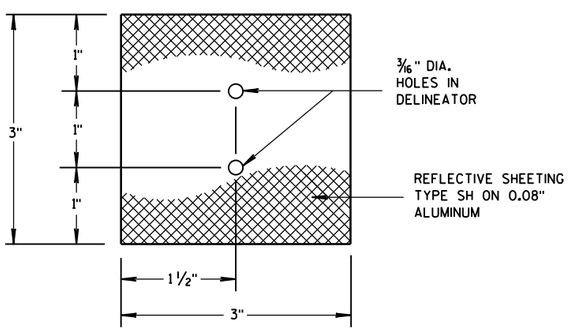
① DELINEATORS SHALL BE PLACED AT A CONSTANT DISTANCE FROM THE EDGE OF THE SHOULDER FOR THE LENGTH OF THE INSTALLATION.



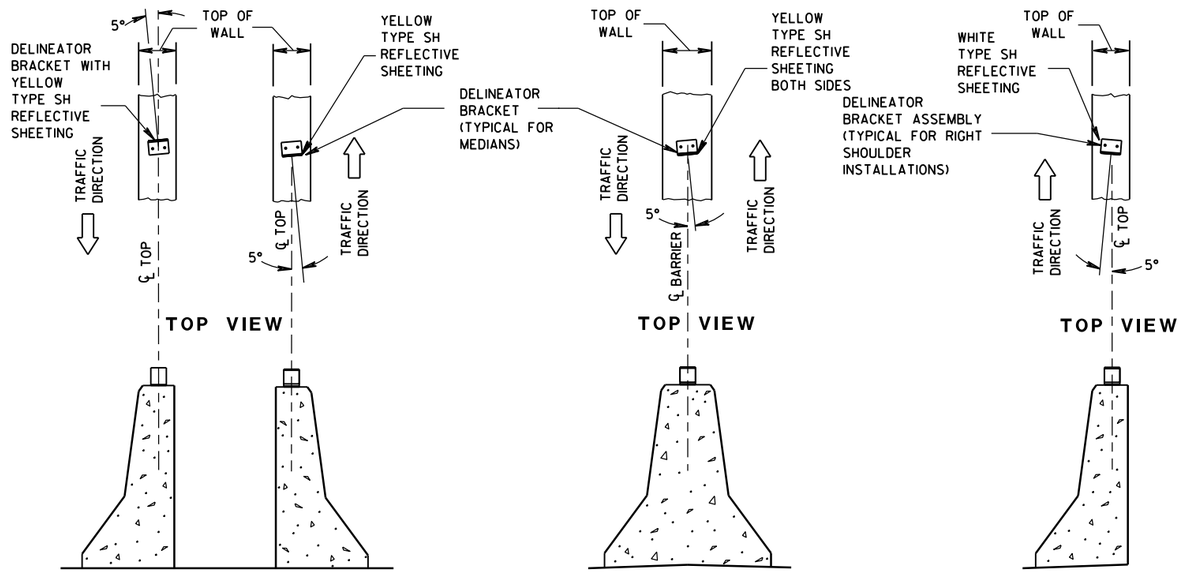
DELINEATOR BRACKET



MOUNTING DETAIL FOR DELINEATOR REFLECTOR

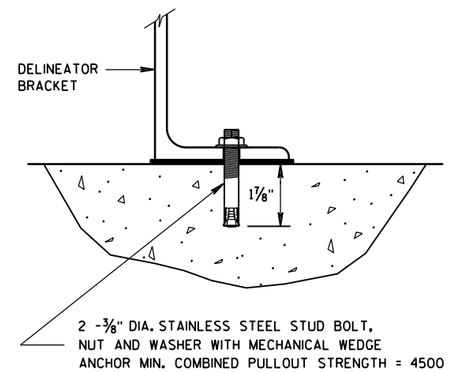


3"x 3" DELINEATOR REFLECTOR



DOUBLE BARRIERS IN MEDIAN | **MEDIAN BARRIER** | **BARRIER LOCATED TO RT. OF TRAFFIC FLOW**

LOCATION AND AIMING DETAILS FOR DELINEATOR BRACKETS MOUNTED ON CONCRETE BARRIERS



DELINEATOR BRACKET MOUNTING DETAIL

DELINEATOR POST, DELINEATOR REFLECTOR AND DELINEATOR BRACKET WITH REFLECTIVE SHEETING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4-18-16 DATE
/S/ Matthew R. Rauch
STATE SIGNING AND MAR[illegible] GINEER
FHWA

6

S.D.D. 15 A 2-9

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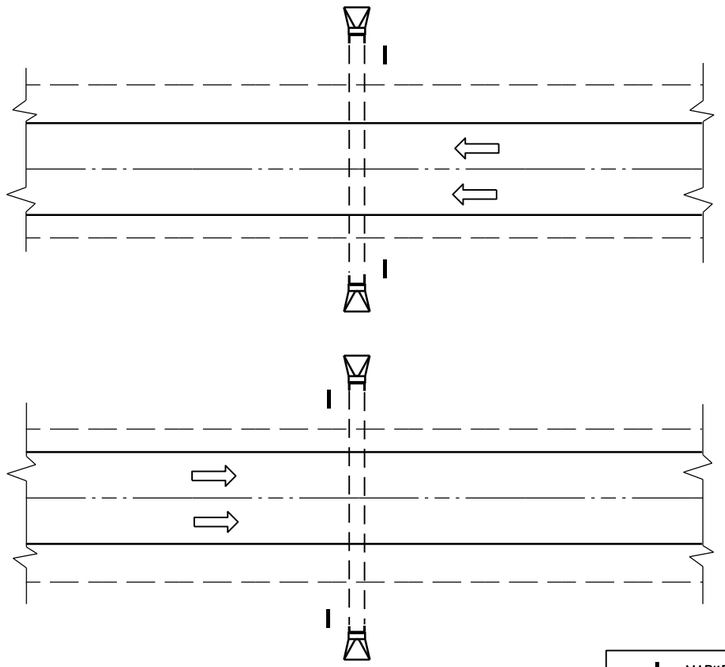
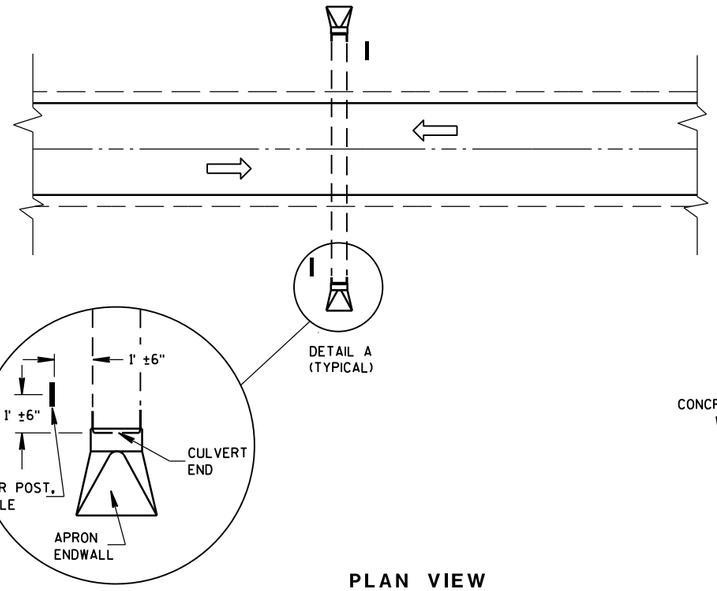
S.D.D. 15 A 2-9



PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

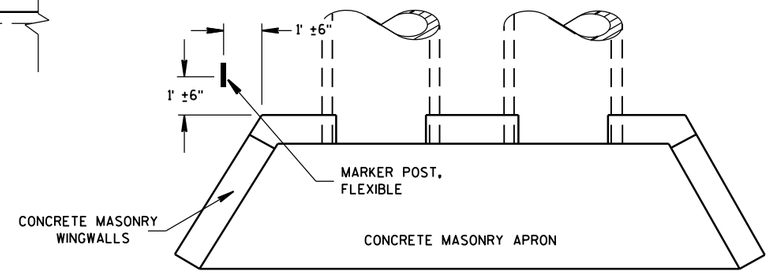
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

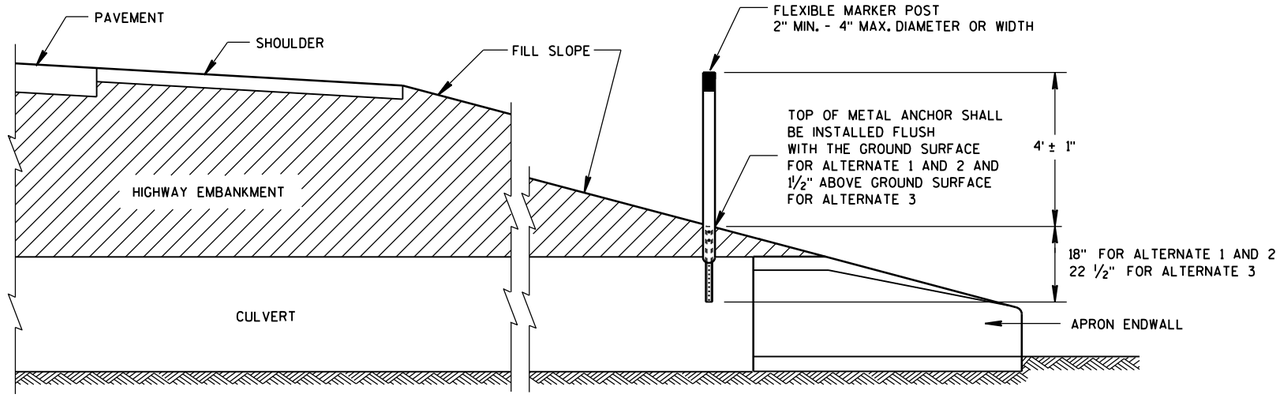
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



PLAN VIEW

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

FLEXIBLE MARKER POST LOCATION



CROSS SECTION

FLEXIBLE MARKER POST

FLEXIBLE MARKER POST FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 15 A 3-2a

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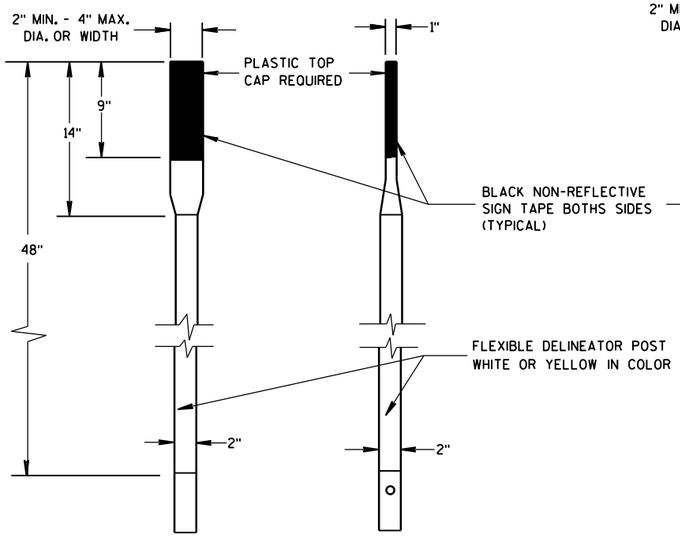
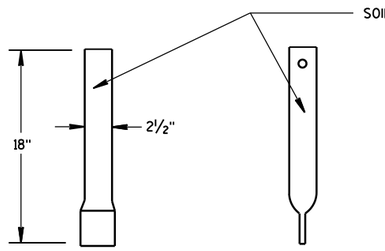
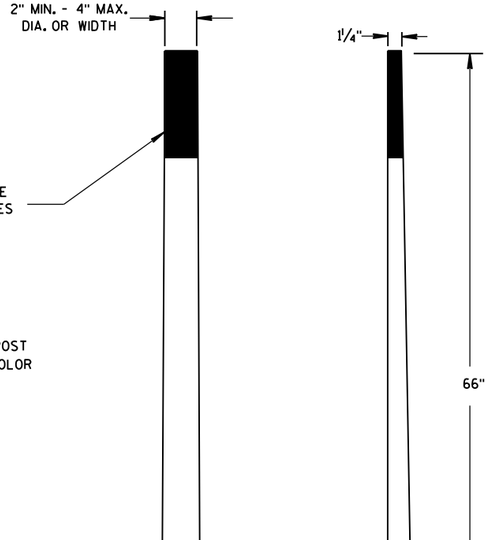
S.D.D. 15 A 3-2a





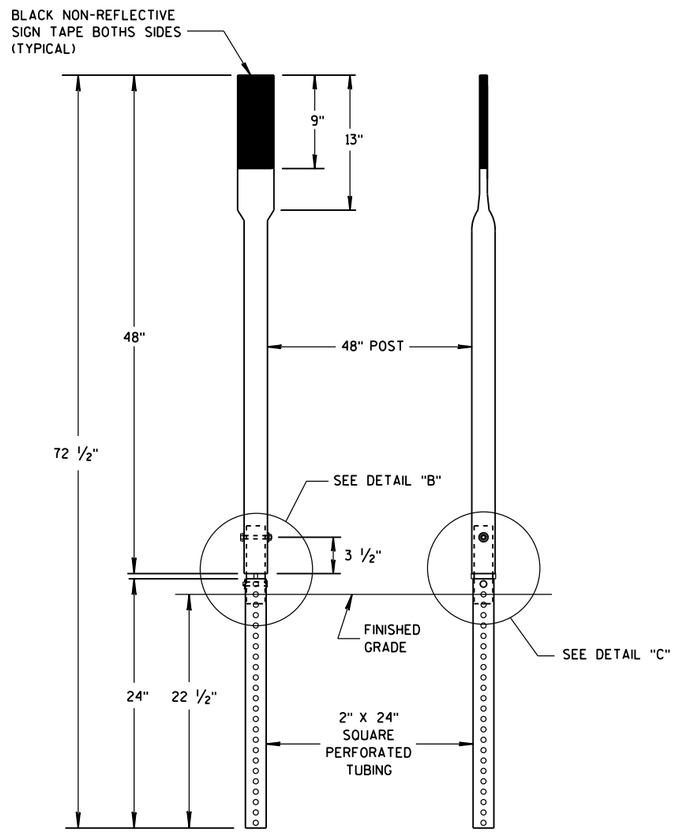
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

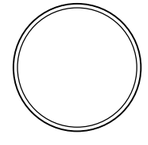
ALTERNATE 2



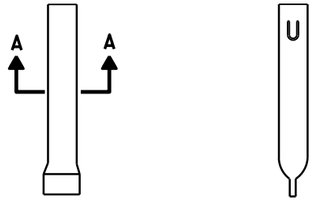
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POSTS

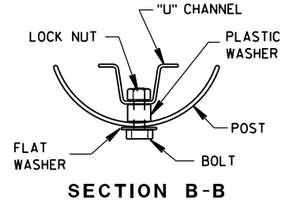


SECTION A-A

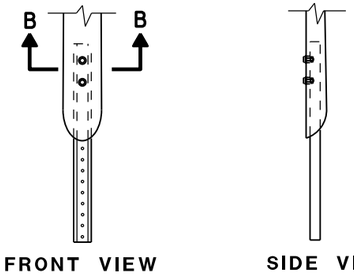


FRONT VIEW SIDE VIEW

ALTERNATE 1

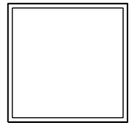


SECTION B-B

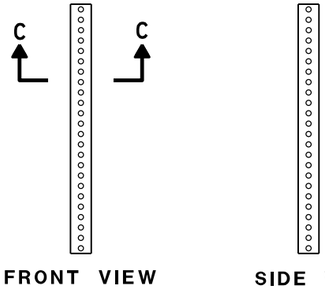


FRONT VIEW SIDE VIEW

ALTERNATE 2



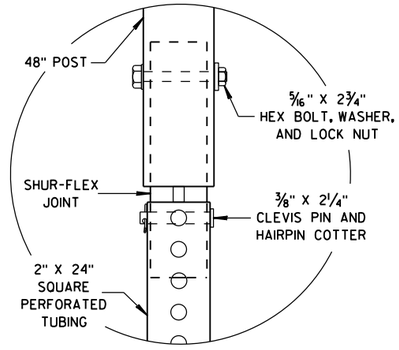
SECTION C-C



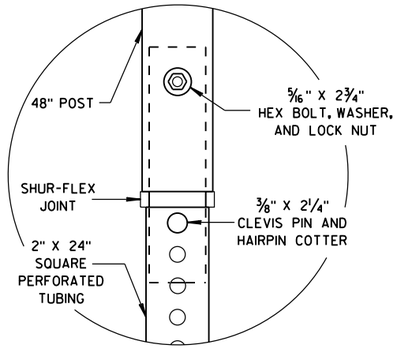
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POST ANCHORS



DETAIL B



DETAIL C

FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/1/2012
DATE
/S/ Travis Feltes
STATE TRAFFIC ENGINEER
FHWA

6

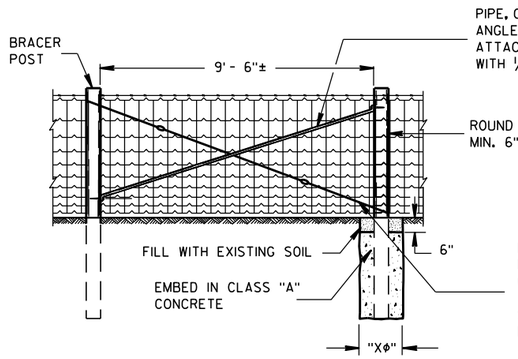
S.D.D. 15 A 3-2b

6

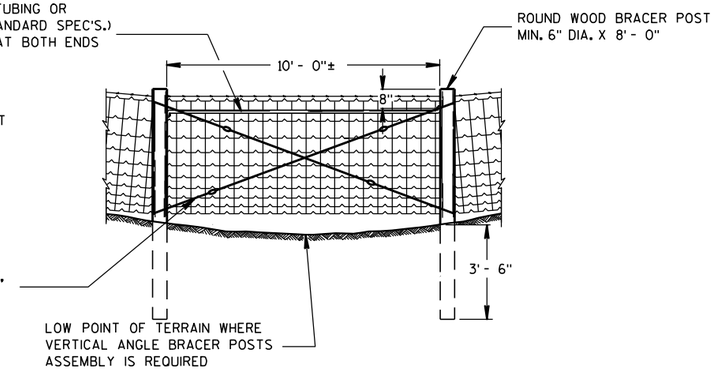
S.D.D. 15 A 3-2b

NOTE: PULL OR STRETCHER POST ASSEMBLIES SHALL BE PLACED MIDWAY BETWEEN END POSTS AND CORNER POSTS WHERE A RUN OF FENCE EXCEEDS 660' BUT IS LESS THAN 1,320'. FOR RUNS OF FENCE IN EXCESS OF 1,320' MAXIMUM SPACING OF PULL OR STRETCHER POST ASSEMBLIES SHALL BE 660'± C-C.

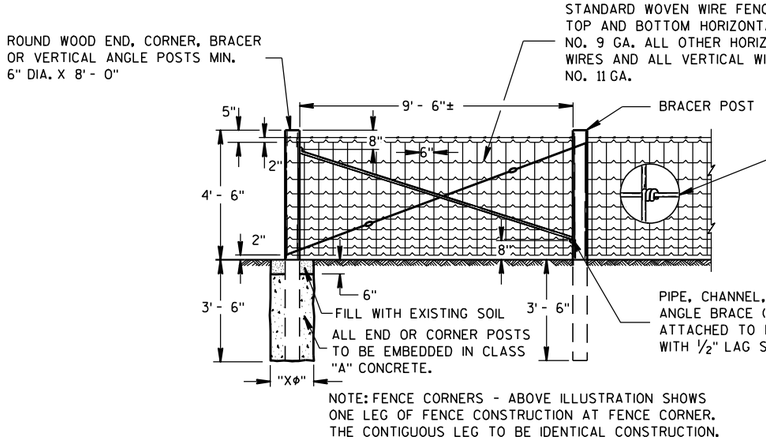
ILLUSTRATION SHOWS POSITION OF STANDARD STEEL BRACE, DOUBLE STRAND GALVANIZED WIRE, AND THE POST TO BE EMBEDDED IN CONCRETE WHEN WIRE FENCE IS INSTALLED FROM LEFT TO RIGHT. THE BRACES SHALL BE POSITIONED ON THE OPPOSITE DIAGONALS AND THE OPPOSITE POST SHALL BE EMBEDDED IN CONCRETE WHEN WIRE FENCE IS INSTALLED FROM RIGHT TO LEFT.



PULL OR STRETCHER POSTS ASSEMBLY

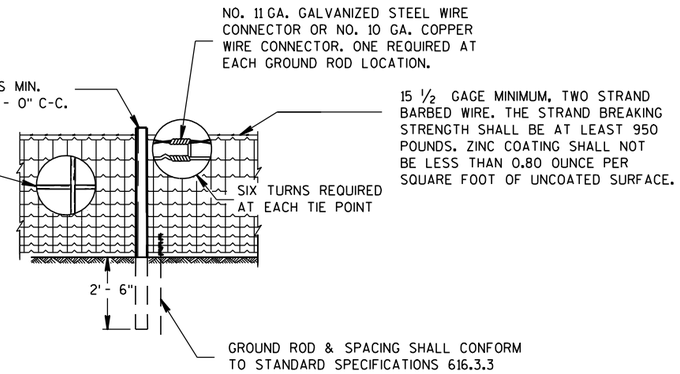


VERTICAL ANGLE BRACER POSTS ASSEMBLY



NOTE: FENCE CORNERS - ABOVE ILLUSTRATION SHOWS ONE LEG OF FENCE CONSTRUCTION AT FENCE CORNER. THE CONTIGUOUS LEG TO BE IDENTICAL CONSTRUCTION.

END OR CORNER POSTS ASSEMBLY



LINE FENCE CONSTRUCTION

GENERAL NOTES

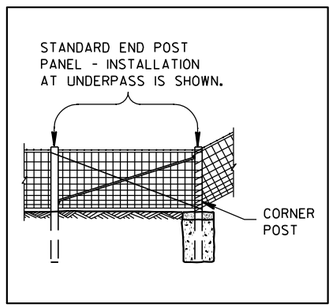
"XΦ" = DIAMETER OF THE POST PLUS 12".

FENCE STAPLES SHOULD NEVER BE DRIVEN VERTICALLY INTO WOOD POSTS (WITH BOTH LEGS PARALLEL WITH THE WOOD GRAIN). DOING SO CAN SEPARATE THE GRAIN AND SIGNIFICANTLY REDUCE THE HOLDING POWER. ROTATING THE STAPLES SLIGHTLY OFF VERTICAL STRADDLES THE GRAIN AND PROVIDES MORE RESISTANCE TO PULL-OUT.

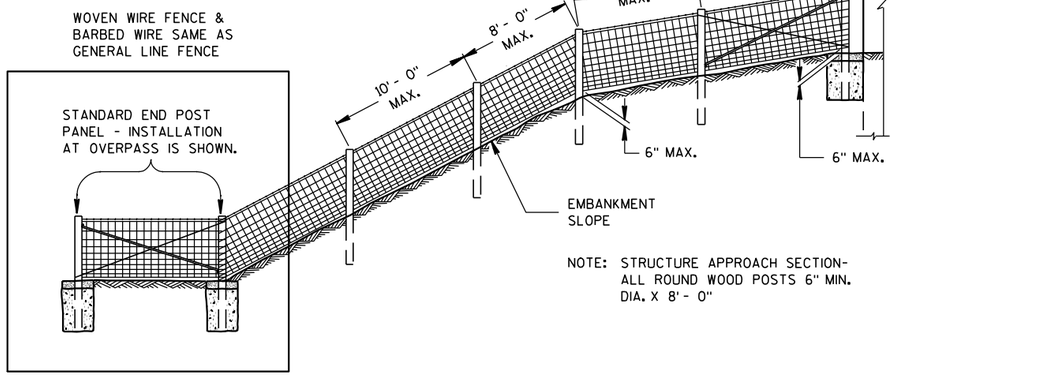
DO NOT STAPLE WIRE TIGHT TO THE LINE POSTS. ALLOW MOVEMENT OF WIRE FOR EXPANSION AND CONTRACTION. STAPLE ARRANGEMENT SHALL BE THE SAME FOR ALL OTHER POSTS EXCEPT THAT THEY SHALL BE DRIVEN TIGHT TO POSTS. ALL STAPLES SHALL BE 2" X 9 GAGE AND SHALL BE MANUFACTURED FROM GALVANIZED WIRE OR HOT DIP GALVANIZED AFTER FORMING. STAPLES SHALL HAVE SLASH-CUT POINTS.

FENCE SHALL BE LOCATED 3'-0" INSIDE THE RIGHT OF WAY LINE UNLESS OTHERWISE INDICATED ON THE PLANS.

GENERAL ROADSIDE VIEW OF WOVEN WIRE FENCE



ALTERNATE FENCE DESIGN AT STRUCTURE



NOTE: STRUCTURE APPROACH SECTION- ALL ROUND WOOD POSTS 6" MIN. DIA. X 8' - 0"

FENCE DESIGN AT STRUCTURE APPROACH

FENCE WOVEN WIRE

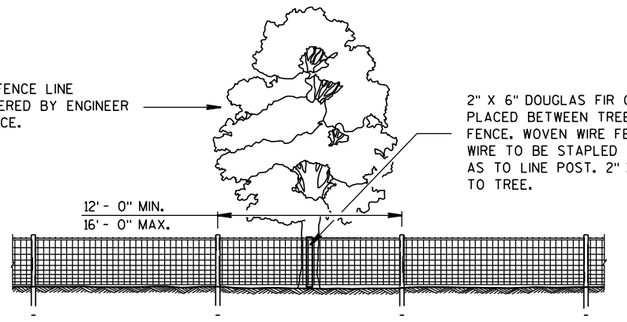
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

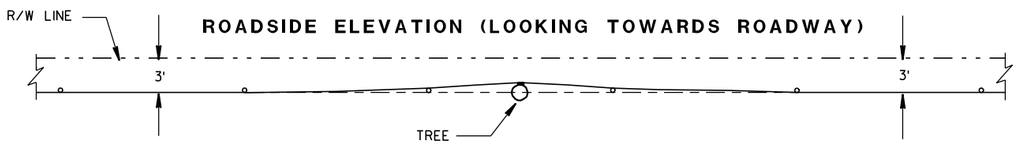
S.D.D. 15 B 1-8a

NOTE: TREE IN NORMAL FENCE LINE SPECIFICALLY ORDERED BY ENGINEER TO REMAIN IN PLACE.

2" X 6" DOUGLAS FIR OR SO. YELLOW PINE PLACED BETWEEN TREE AND WOVEN WIRE FENCE. WOVEN WIRE FENCE AND BARBED WIRE TO BE STAPLED TO 2" X 6" LIKE AS TO LINE POST. 2" X 6" NOT FASTENED TO TREE.

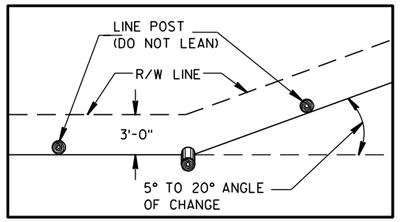


ROADSIDE ELEVATION (LOOKING TOWARDS ROADWAY)

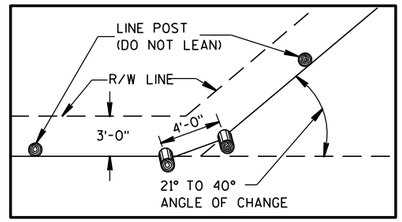


PLAN VIEW

FENCE DESIGN AT TREES REMAINING IN NORMAL FENCE LINE



PLAN VIEW
SINGLE POST CORNER

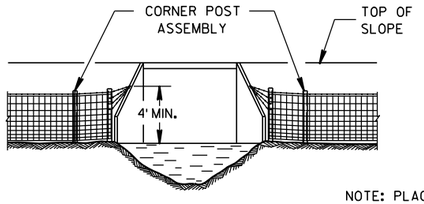


PLAN VIEW
DOUBLE POST CORNER

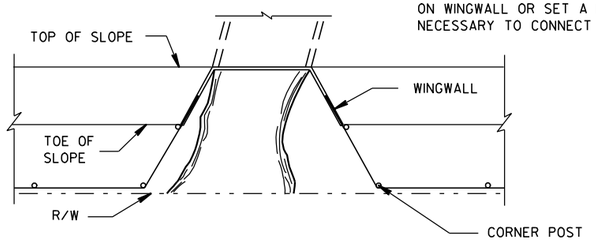
RIGHT OF WAY LINE CHANGE 40° AND LESS

NOTE: SINGLE AND DOUBLE POSTS SHALL BE A MIN. 6" DIA. X 8'-0" WITH A LEAN OF 4" TOWARD THE OUTSIDE OF THE CURVE.

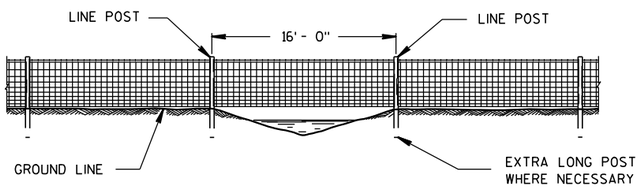
WHEN THE RIGHT OF WAY LINE CHANGE IS MORE THAN 40° USE THE CORNER OR STRETCHER POSTS ASSEMBLY.



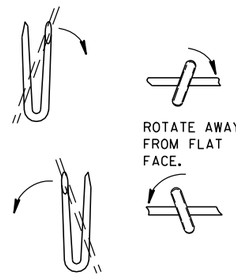
NOTE: PLACE A MINIMUM OF 4 STRANDS OF BARBED WIRE, 6" MAXIMUM CENTERS IN FAN SHAPE CONNECTED TO AN EYE BOLT ON WINGWALL OR SET A LONE POST WHEN NECESSARY TO CONNECT BARBED WIRE.



FENCE INSTALLATION TO WINGWALLS

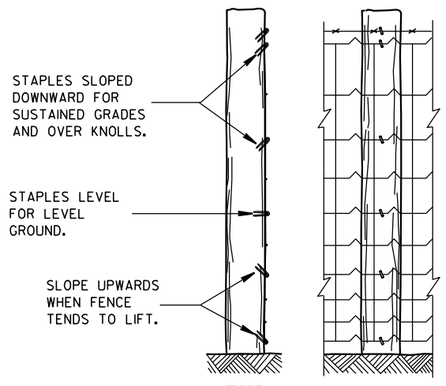


FENCE CONSTRUCTION OVER STREAM COURSES OF 15 FT. OR LESS IN WIDTH



LINE POST

NOTE: WHEN POSTS ARE DRIVEN THE SMALL END SHALL BE DOWN.

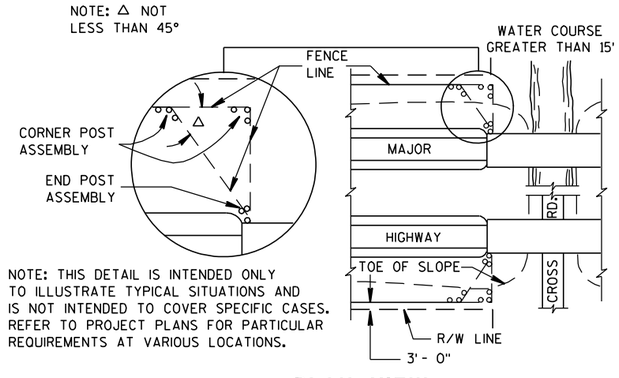


END ELEVATION

FARM SIDE ELEVATION

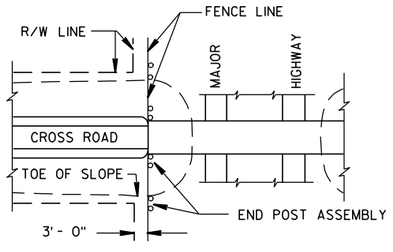
FENCE MOUNTING DETAIL

NOTE: △ NOT LESS THAN 45°



NOTE: THIS DETAIL IS INTENDED ONLY TO ILLUSTRATE TYPICAL SITUATIONS AND IS NOT INTENDED TO COVER SPECIFIC CASES. REFER TO PROJECT PLANS FOR PARTICULAR REQUIREMENTS AT VARIOUS LOCATIONS.

PLAN VIEW
MAJOR HIGHWAY OVERPASS OR STREAM COURSE CROSSING OF GREATER THAN 15 FT. IN WIDTH



PLAN VIEW
MAJOR HIGHWAY UNDERPASS

FENCE LOCATION AT STRUCTURES

FENCE WOVEN WIRE

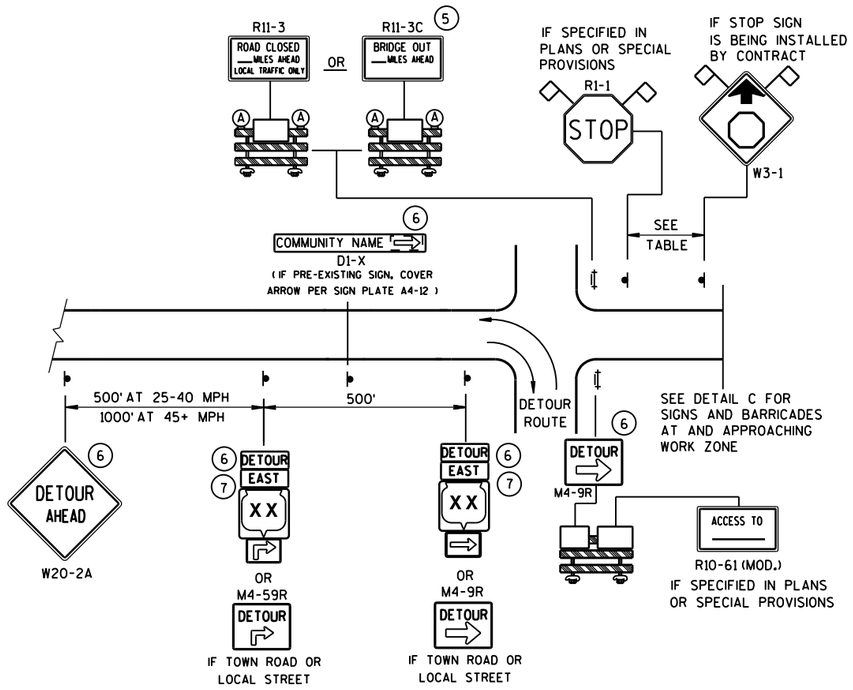
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4/4/2008
DATE
/S/ Jerry H. Zinn
ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA

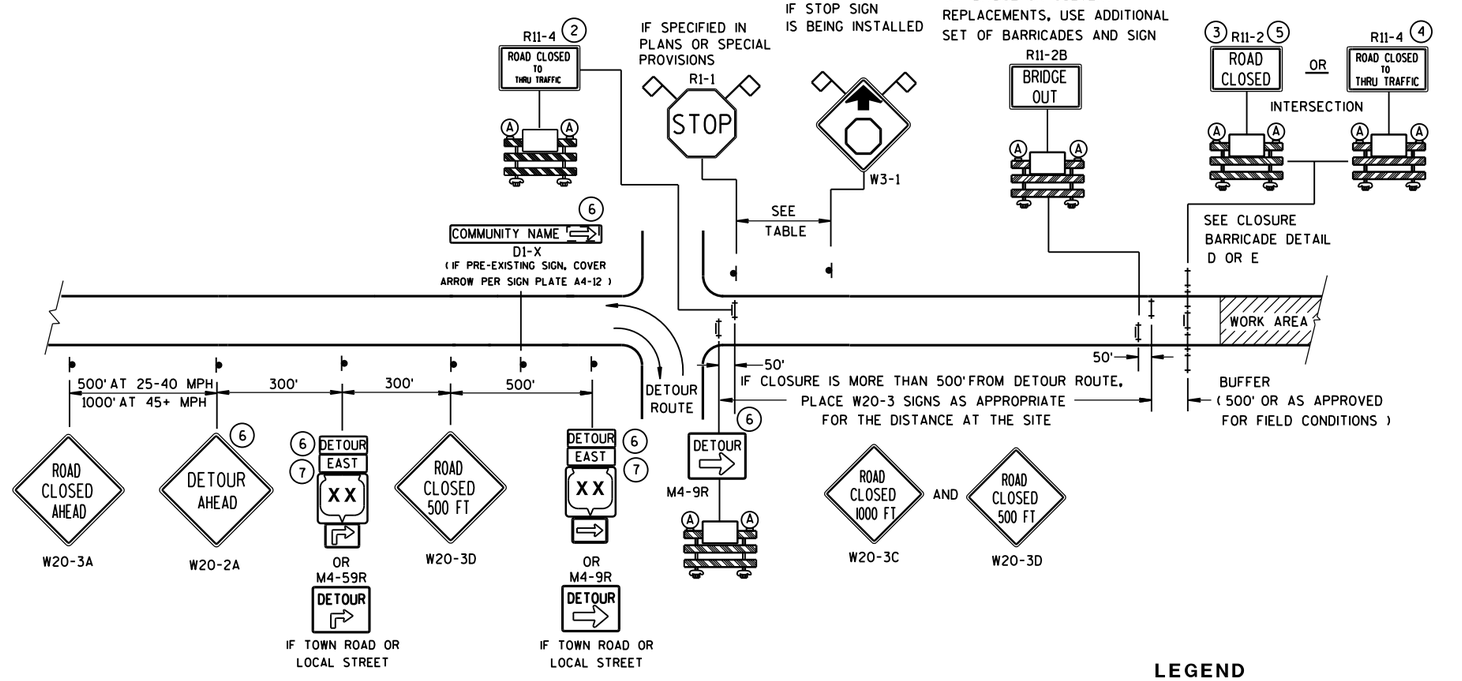
6

S.D.D. 15 B 1-8b



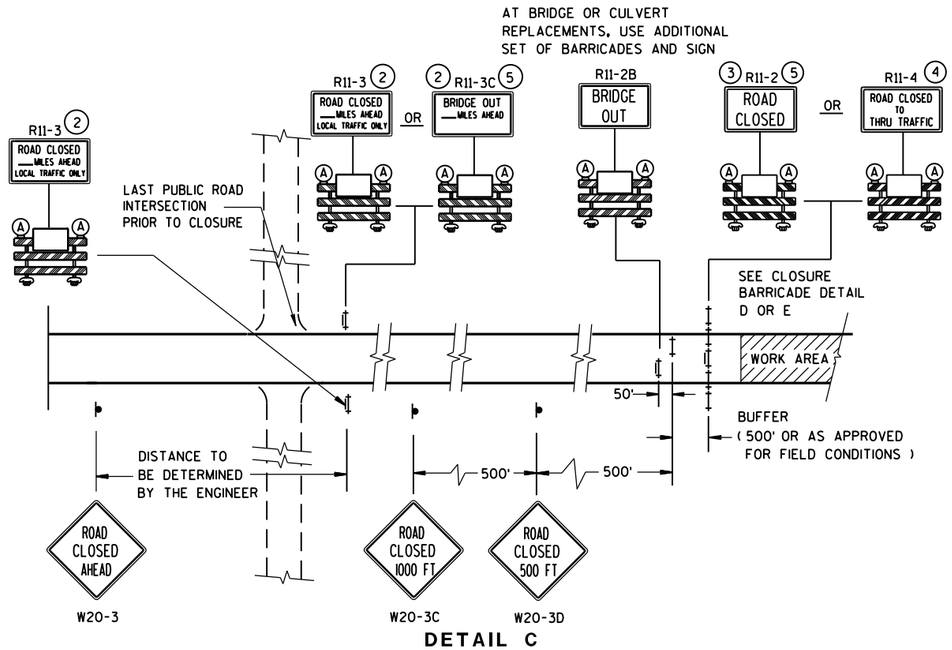
DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE GREATER THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE LESS THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR

SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (FT)
25	200
30	200
35	350
40	350
45	500
50	550
55	750

SEE SDD 15C2-SHEET "**b**" FOR GENERAL NOTES AND FOOTNOTES (1) THROUGH (7)

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA
- DETOUR / EAST — M4-8 / M3-X
- XX — M1-4; COUNTY XX — M1-5A; XX — M1-6
- M05-1 OR M06-1
- FLAGS, 16" X 16" MIN., (ORANGE)

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

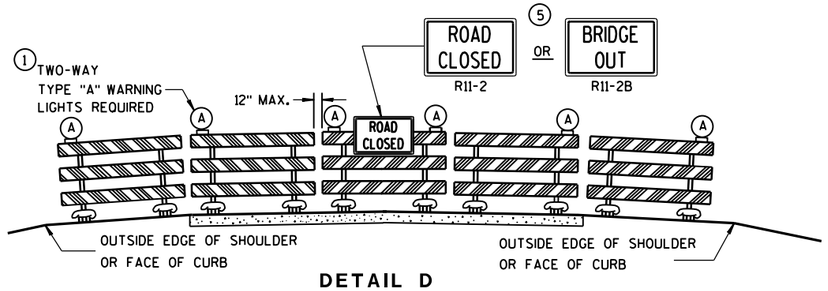
Sept. 2015 — DATE
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER
FHWA

6

S.D.D. 15 C 2-6a

6

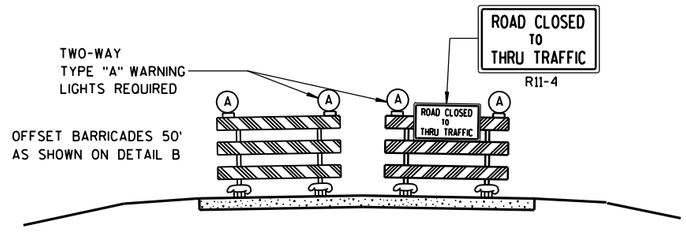
S.D.D. 15 C 2-6a



DETAIL D

ROAD CLOSURE BARRICADE DETAIL

APPROACH VIEW



DETAIL E

LANE CLOSURE BARRICADE DETAIL

APPROACH VIEW

SEE SDD 15C2-SHEET "**a**" FOR LEGEND

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL D FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3, M4-9, R11-4 AND R10-61 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

"WO AND "MO" SIGNS ARE THE SAME AS "W" AND "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
- R11-2 SHALL BE 48" X 30".
- R11-3, R11-4 AND R10-61 SHALL BE 60" X 30".
- M4-9 SHALL BE 30" X 24".
- M3-X SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS.)
- M4-8 SHALL BE 24" X 12". (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS.)
- M1-4, M1-5A, AND M1-6 SHALL BE 24" X 24". (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS.)
- M05-1 AND M06-1 SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS.)
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1-1 SHALL BE 36" X 36".

(1) TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8-FOOT LIGHT SPACING).

(2) THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT INTERSECTION.

(3) FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL D.

(4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE LANE CLOSURE BARRICADE DETAIL E.

(5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11-2 AND R11-3 SIGNS.

(6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.

(7) "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

Sept. 2015 — DATE
/S/ Peter Amakobe Atepe — STATEWIDE WORK ZO SAFETY ENGI FIC
FHWA

6

S.D.D. 15 C 2-6b

THIS DRAWING PROVIDES GENERAL GUIDANCE ON TYPICAL DETOUR SIGN LAYOUT AND SPACING. SEE PROJECT DETOUR SIGNING SHEETS FOR SPECIFIC DETAILS FOR EACH PROJECT.

GENERAL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.

THE SPACING BETWEEN TRAFFIC CONTROL AND DETOUR SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE", SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

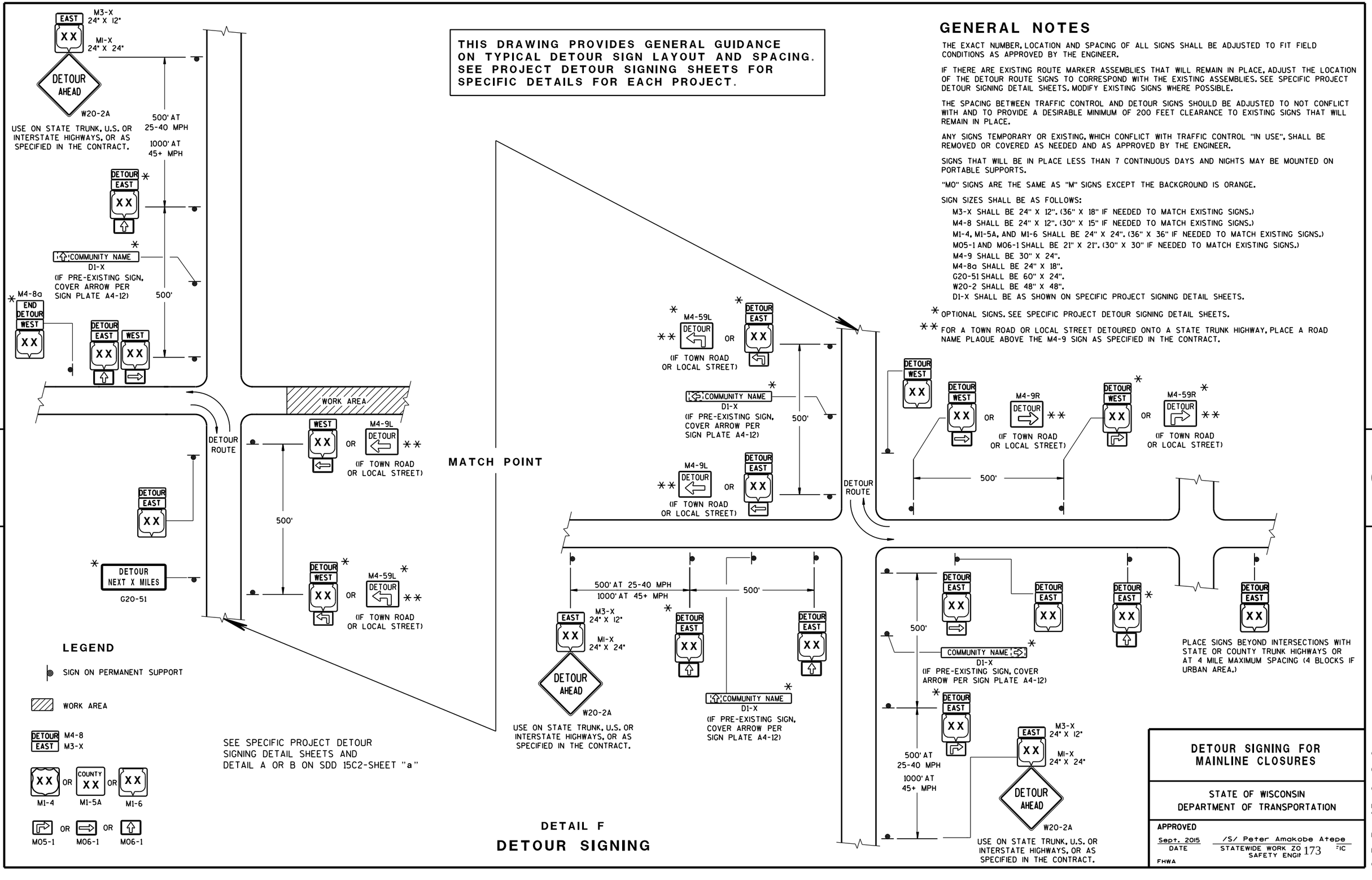
"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGN SIZES SHALL BE AS FOLLOWS:

- M3-X SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS.)
- M4-8 SHALL BE 24" X 12". (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS.)
- M1-4, M1-5A, AND M1-6 SHALL BE 24" X 24". (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS.)
- MO5-1 AND MO6-1 SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS.)
- M4-9 SHALL BE 30" X 24".
- M4-8a SHALL BE 24" X 18".
- G20-51 SHALL BE 60" X 24".
- W20-2 SHALL BE 48" X 48".
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

* OPTIONAL SIGNS. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS.

** FOR A TOWN ROAD OR LOCAL STREET DETOURED ONTO A STATE TRUNK HIGHWAY, PLACE A ROAD NAME PLAQUE ABOVE THE M4-9 SIGN AS SPECIFIED IN THE CONTRACT.



DETAIL F

DETOUR SIGNING

DETOUR SIGNING FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

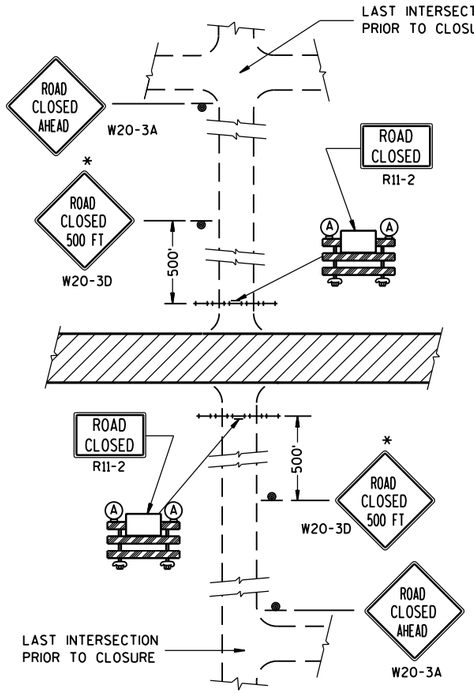
Sept. 2015 — DATE

/S/ Peter Amakobe Atepe — STATEWIDE WORK ZO... SAFETY ENGI... FIC

FHWA

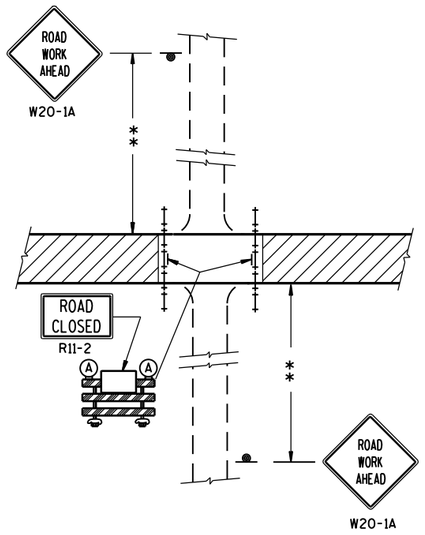
6

S.D.D. 15 C 2-6c



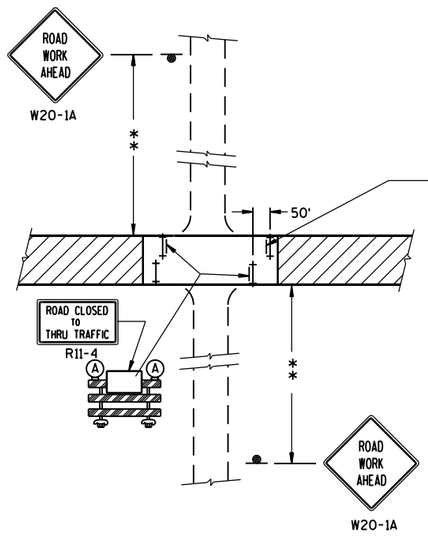
DETAIL 1

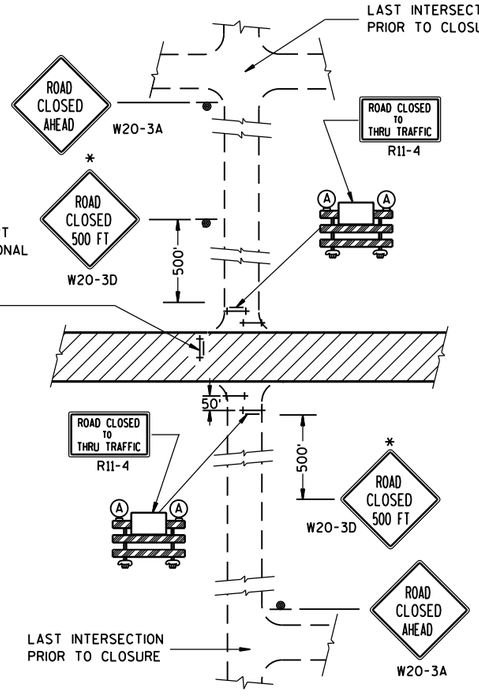
(NO ACCESS TO PROJECT)



DETAIL 2

(PUBLIC CROSS-TRAFFIC MAINTAINED. NO ACCESS TO PROJECT).





DETAIL 3

(PUBLIC CROSS-TRAFFIC MAINTAINED. CONTRACTOR, LOCAL BUSINESS AND RESIDENT ACCESS).

DETAIL 4

(CONTRACTOR, LOCAL BUSINESS AND RESIDENT ACCESS TO PROJECT)

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL D FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3 AND R11-4 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
R11-2 SHALL BE 48" X 30".
R11-4 AND R11-3 SHALL BE 60" X 30".

*OMIT THE "ROAD CLOSED 500 FT." SIGN IF THE LAST INTERSECTION IS 500 FT. OR LESS FROM THE WORK ZONE.

**500' MAX. OR AT LAST INTERSECTION WHICHEVER IS CLOSER.

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

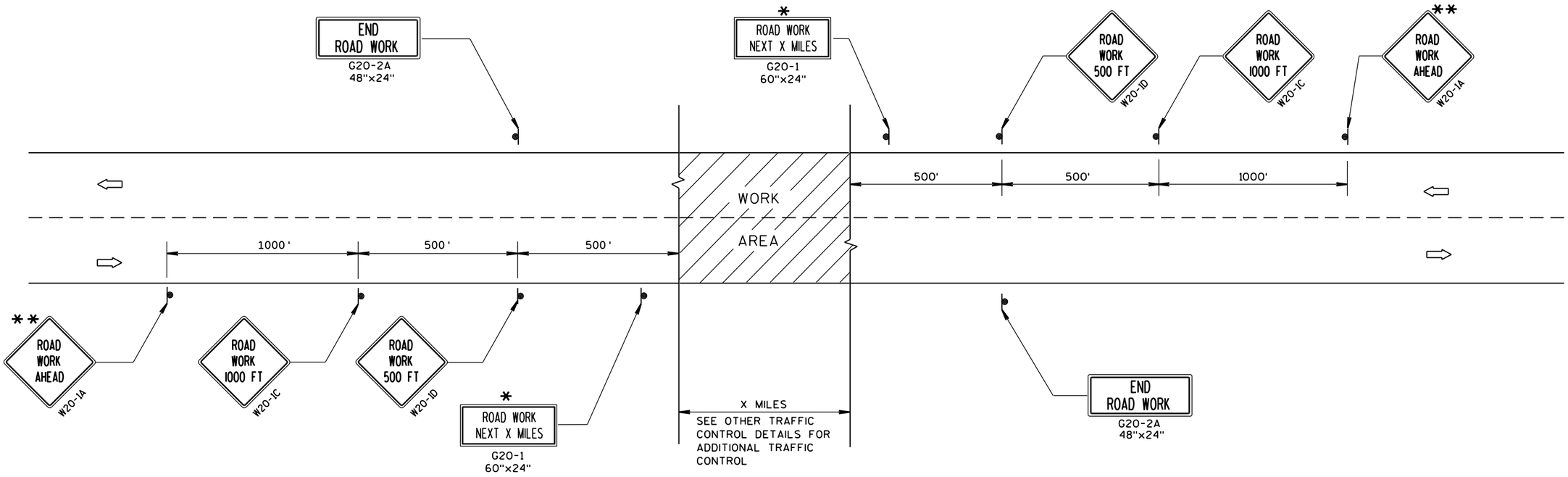
APPROVED
Sept. 2015 — DATE
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZO[illegible]FIC SAFETY ENGI[illegible]
FHWA

6

S.D.D. 15 C 3-3

6

S.D.D. 15 C 3-3



TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

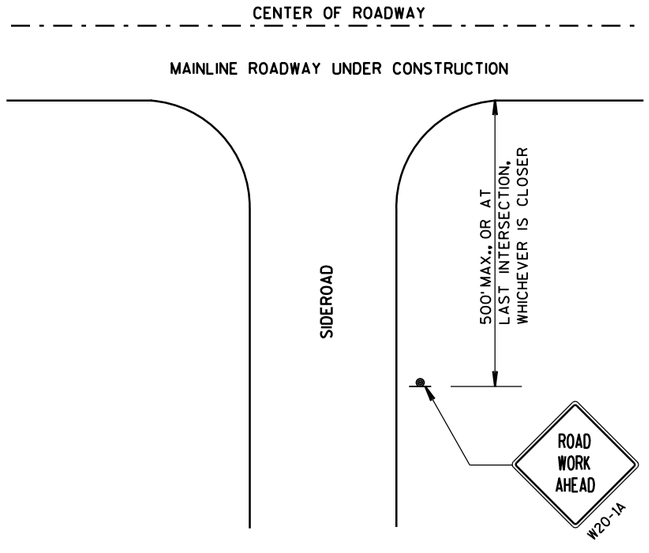
ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

* OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

** PLACE ADDITIONAL W20-1A "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.



LEGEND

- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

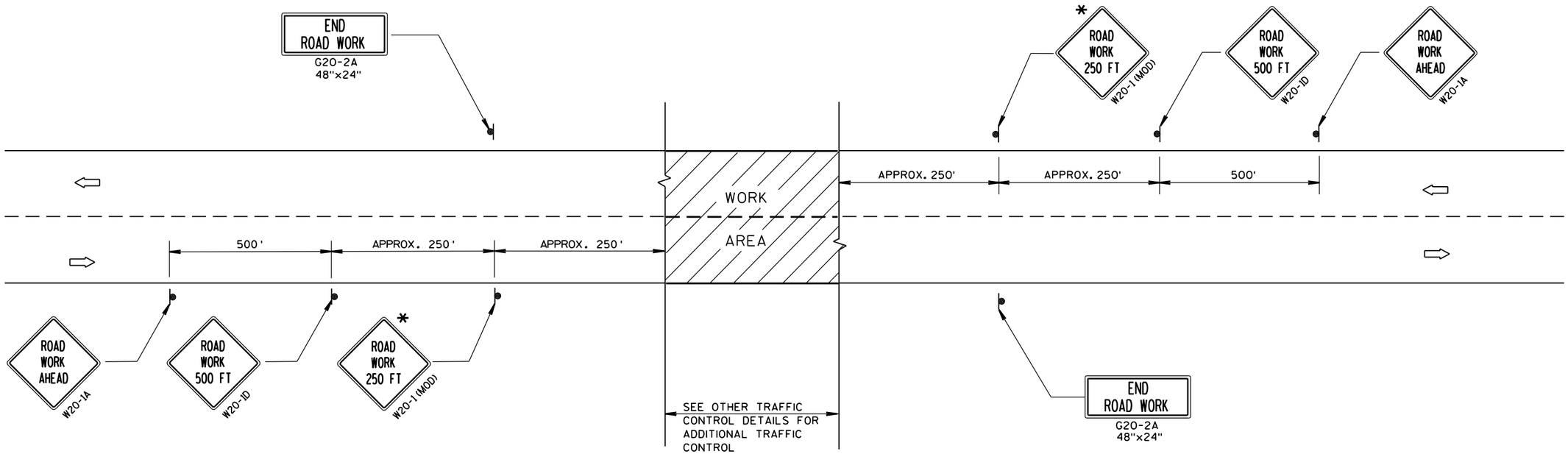
Sept. 2015 — DATE

/S/ Peter Amakobe Atepe — STATEWIDE WORK ZONE SAFETY ENGINEER

FHWA

6

S.D.D. 15 C 4-3



TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

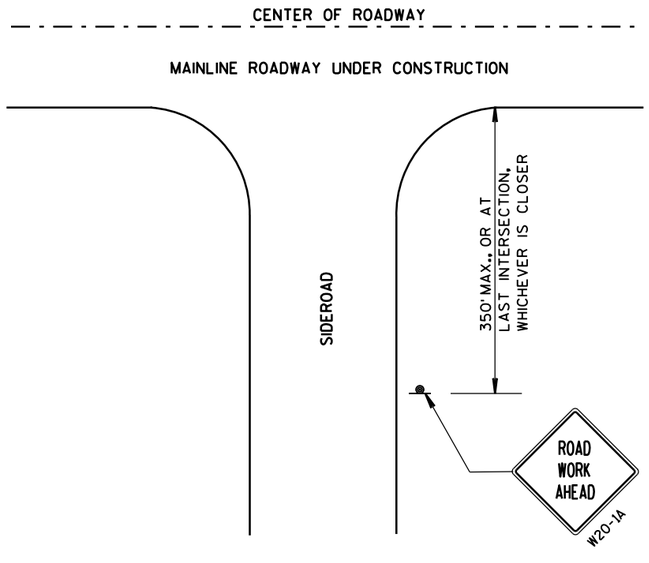
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"x36" SIGNS MAY BE USED INSTEAD OF 48"x48" SIGNS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

* THE THIRD W20-1 SIGN IS REQUIRED ONLY IF THERE IS AN INTERSECTION BETWEEN THE "ROAD WORK 500 FT" SIGN AND THE WORK ZONE. ADJUST THE PLACEMENT OF THIS SIGN BASED ON INTERSECTION LOCATION AND OTHER FIELD CONDITIONS.



LEGEND

- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2015 — DATE
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZONE SAFETY ENGINEER
FHWA

6

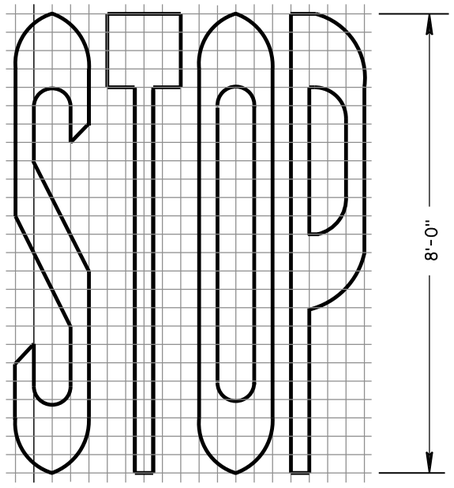
S.D.D. 15 C 5-3

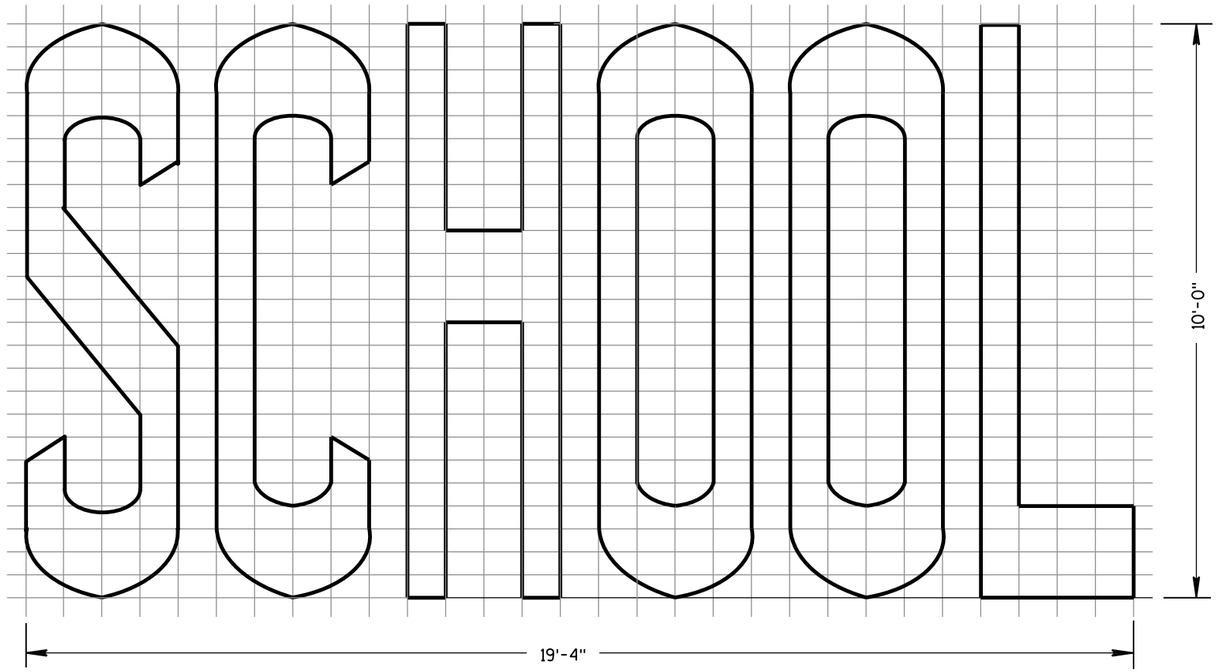
6

S.D.D. 15 C 5-3

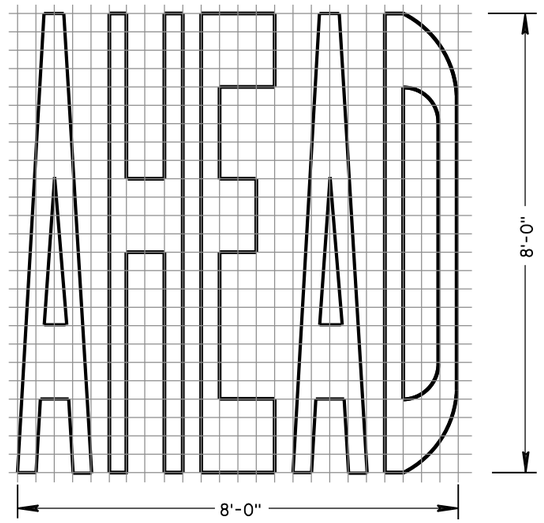
GENERAL NOTES

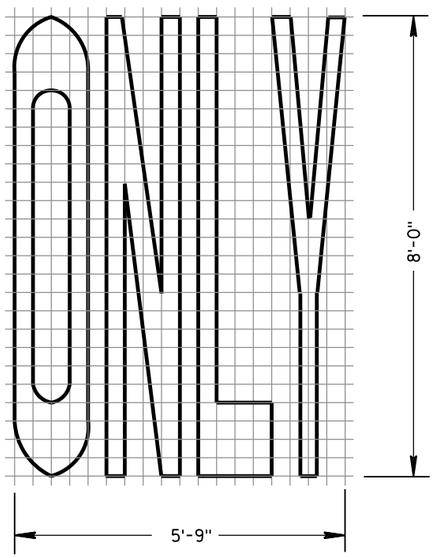
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

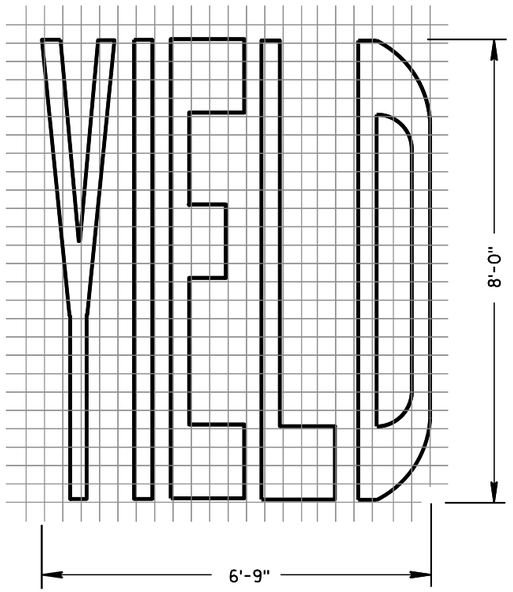


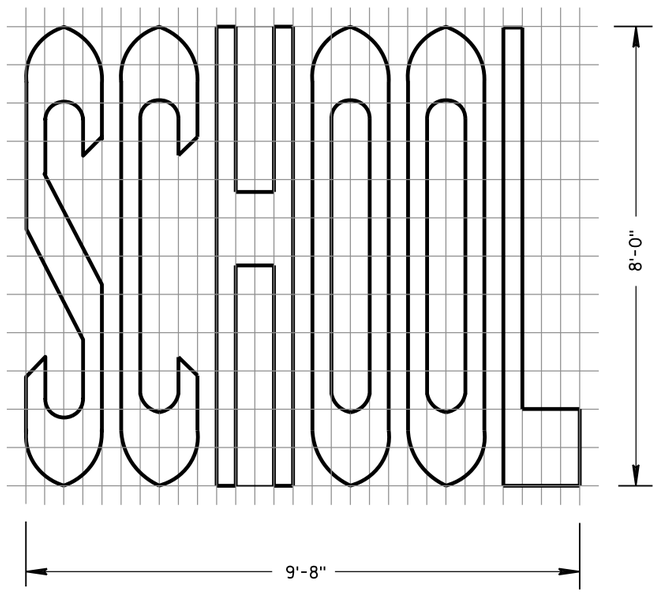


TWO-LANE









SINGLE-LANE

PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

4-18-16	/S/ Matthew R. Rauch	
DATE	STATE SIGNING AND MARK	EER

FHWA

6

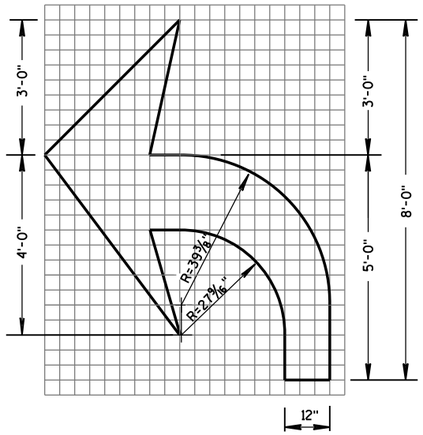
S.D.D. 15 C 7-13b

6

S.D.D. 15 C 7-13b

GENERAL NOTES

DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



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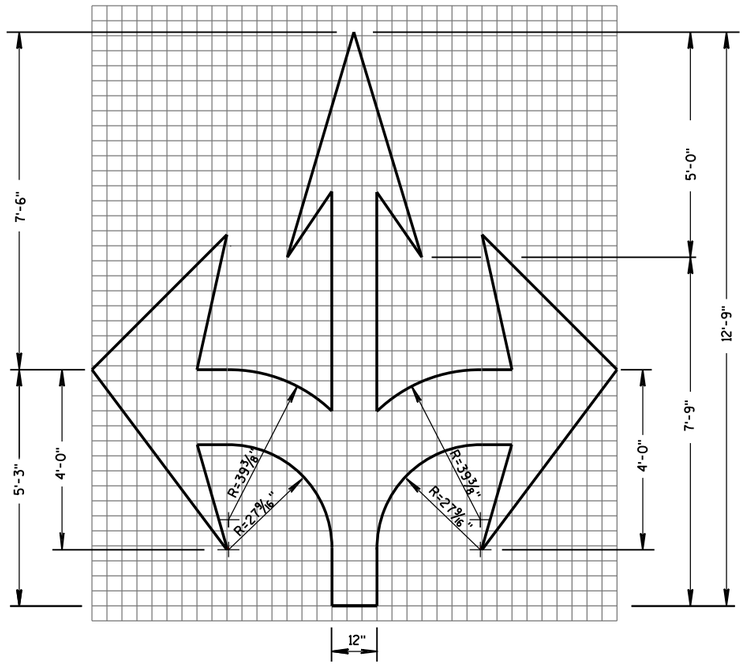
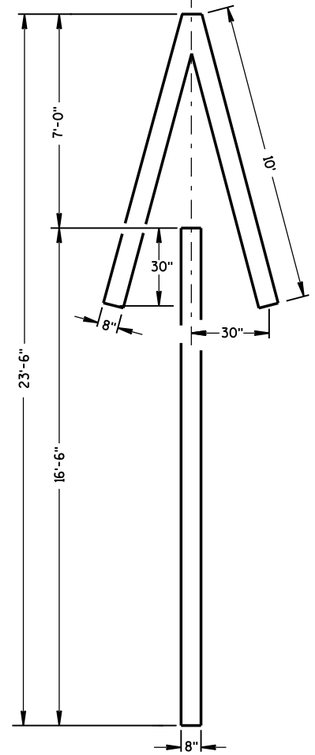


TYPE 6



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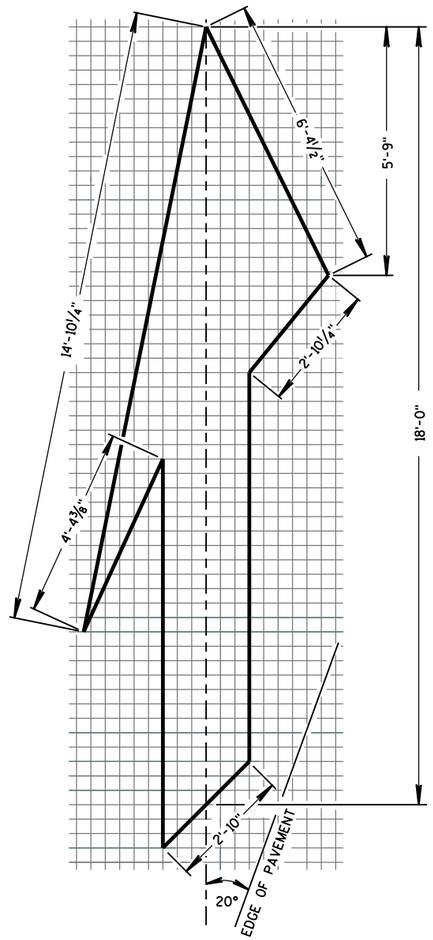
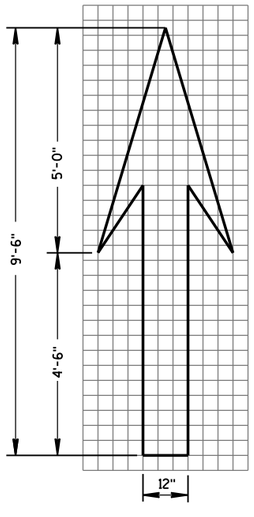
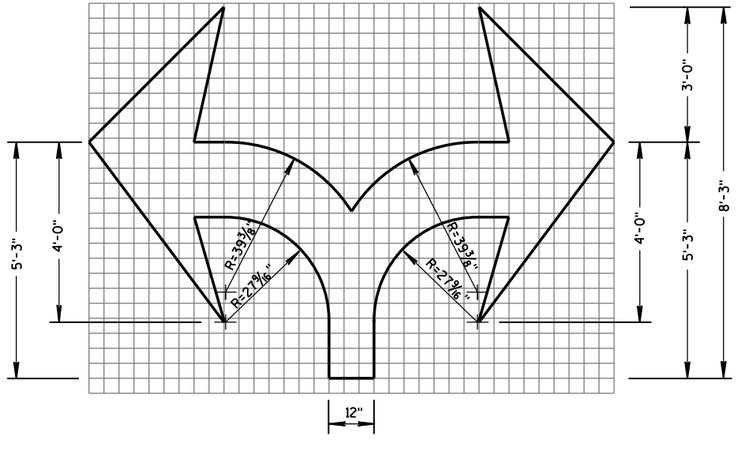


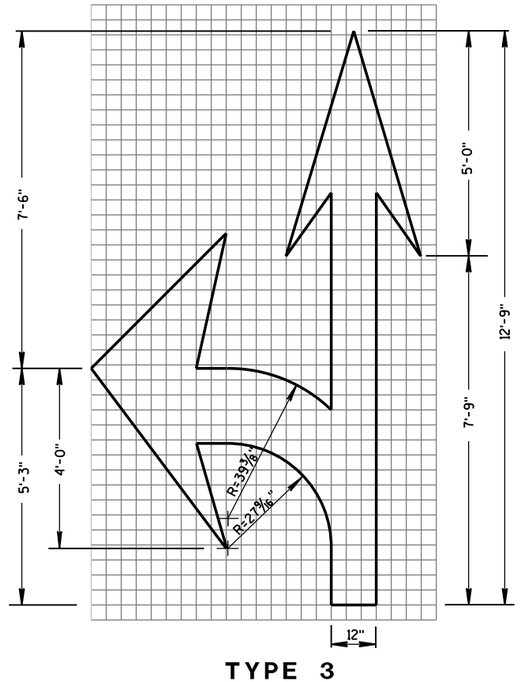
TYPE 5 LANE DROP ARROW



TYPE 1



TYPE 7



TYPE 3

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

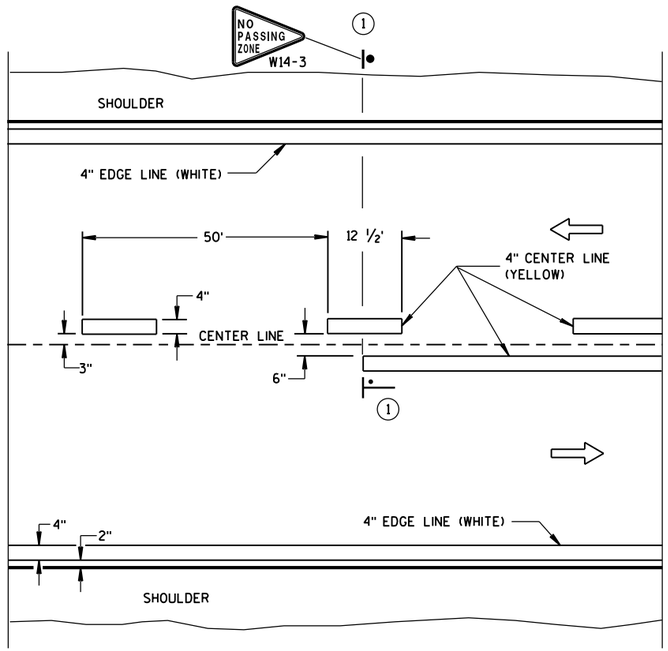
APPROVED
4-18-16 DATE
/S/ Matthew R. Rauch
STATE SIGNING AND MAR ENGINEER
FHWA

6

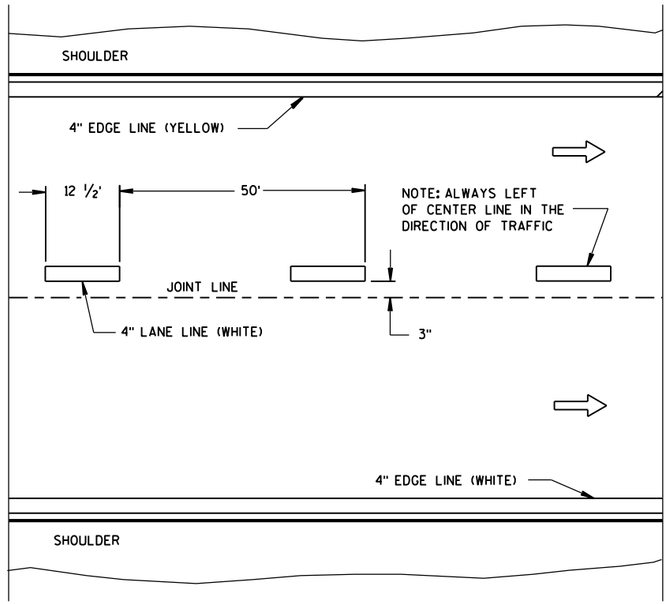
S.D.D. 15 C 7-13c

6

S.D.D. 15 C 7-13c



TWO WAY TRAFFIC



ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

(1) NO PASSING ZONE W14-3 SIGN SHALL BE LOCATED WITHIN 50 FEET OF THE "T" MARKING.

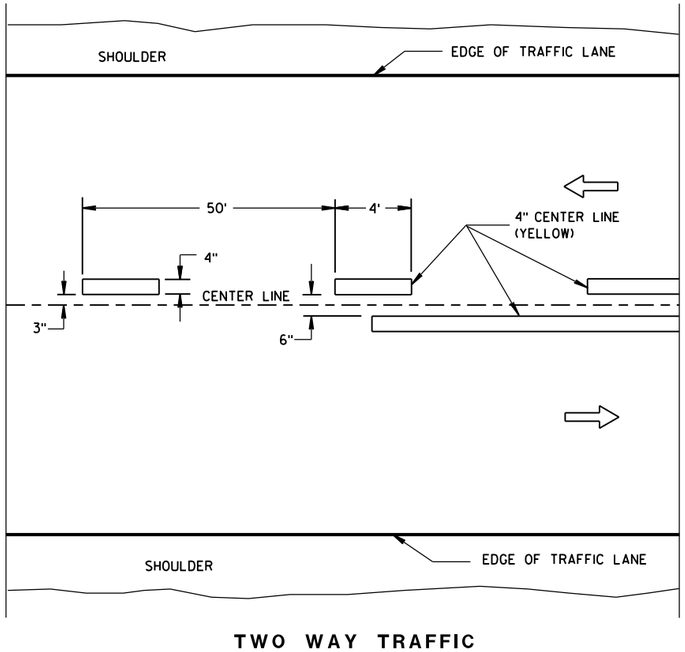
NOTE

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

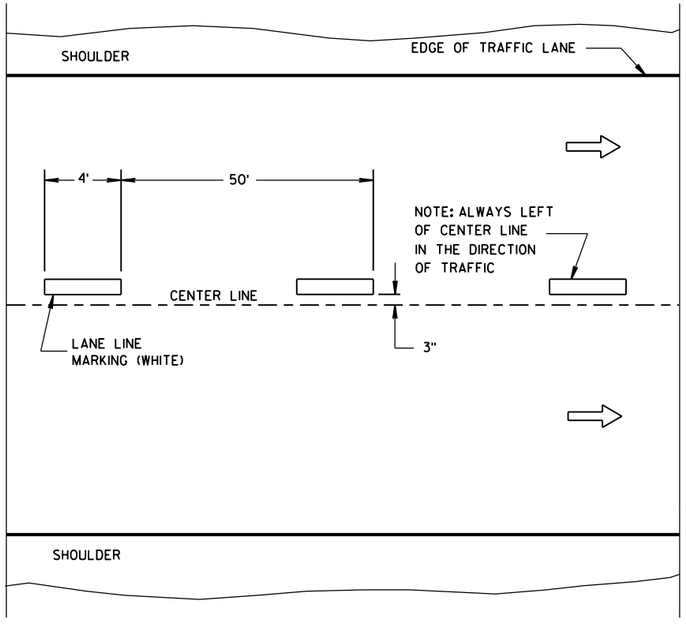
LEGEND

"T" MARKING

POST MOUNTED SIGN



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY PAVEMENT MARKING

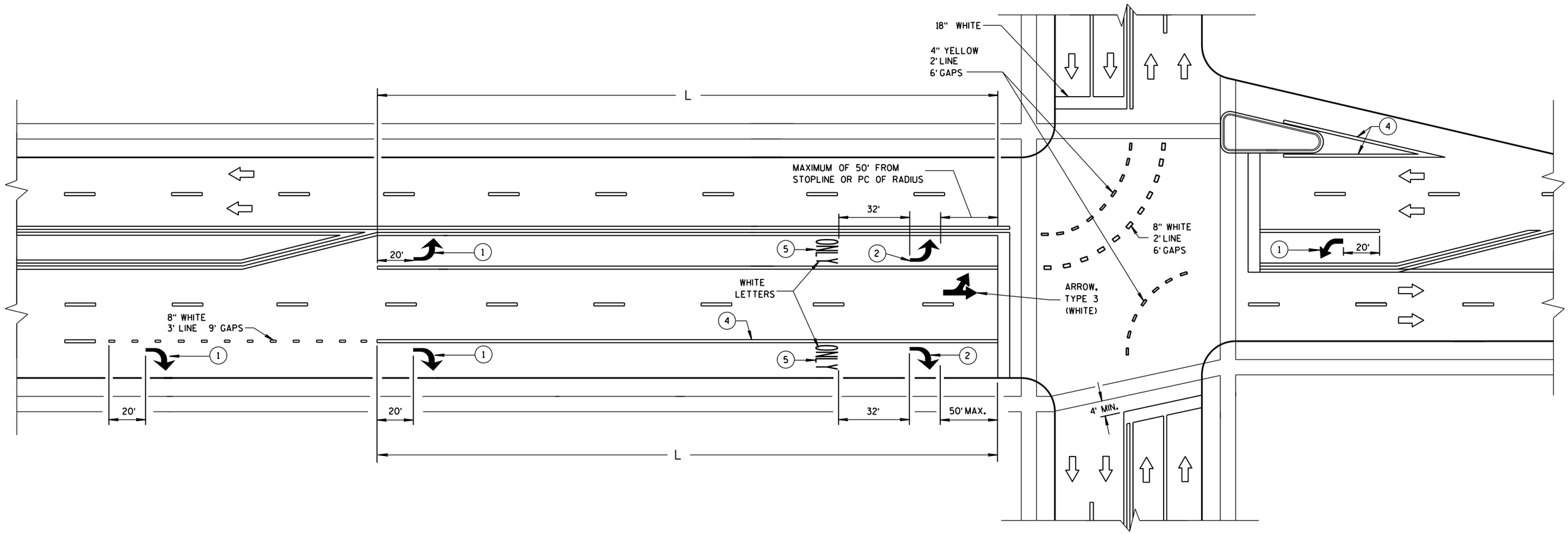
LONGITUDINAL MARKING (MAINLINE)

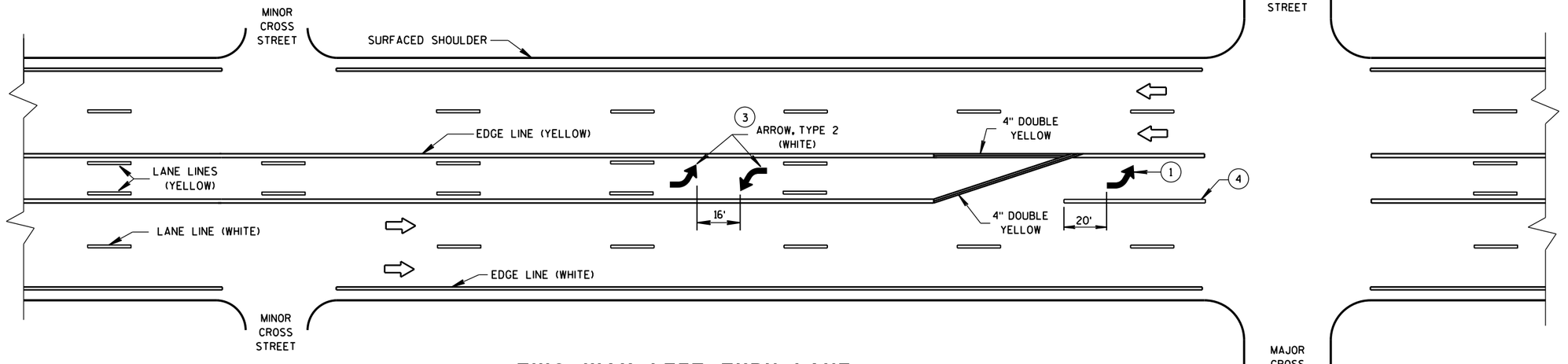
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2016 — DATE
/S/ Matthew R. Rauch — STATE SIGNING AND MAR[illegible]INEER
FHWA

S.D.D. 15 C 8-17a

S.D.D. 15 C 8-17a





GENERAL NOTES

(1) REQUIRED ARROW, TYPE 2 (WHITE).

(2) REQUIRED ARROW, TYPE 2 (WHITE) WHEN L IS GREATER THAN 78 FEET AND LESS THAN OR EQUAL TO 166 FEET.

(3) A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.

(4) 8" WHITE

(5) REQUIRED WORD ONLY WHEN L IS GREATER THAN 166 FEET.

NOTE:
ARROW SYMBOL (⇨)
SHOWS DIRECTION OF TRAVEL

L = LENGTH OF TURN BAY

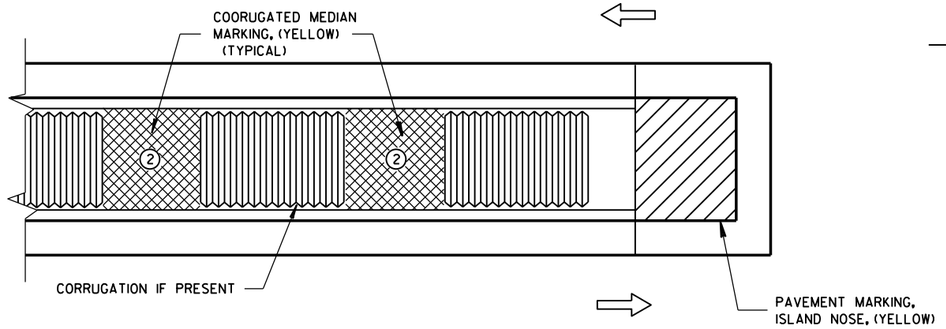
TWO WAY LEFT TURN LANE

PAVEMENT MARKING
(TURN LANES)

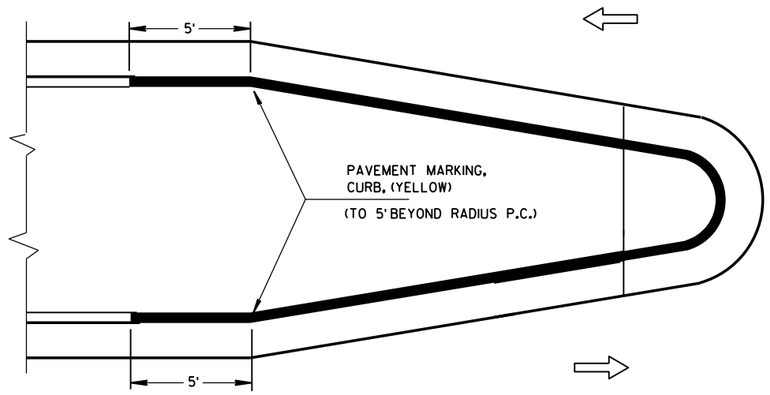
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

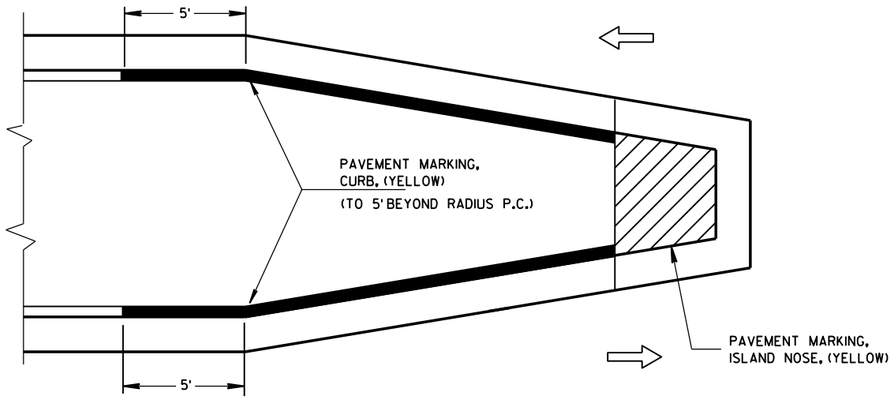
S.D.D. 15 C 8-17b



MEDIAN ISLAND WITH SQUARE BLUNT NOSE

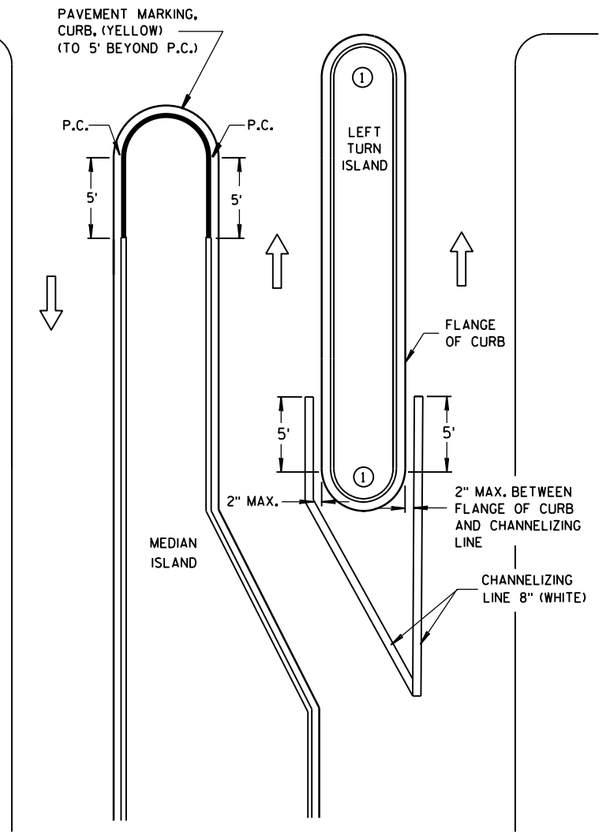


MEDIAN ISLAND WITH ROUND BLUNT NOSE



MEDIAN ISLAND WITH SLOPED NOSE

TYPICAL PLACEMENT OF PAVEMENT MARKING ON MEDIAN ISLANDS

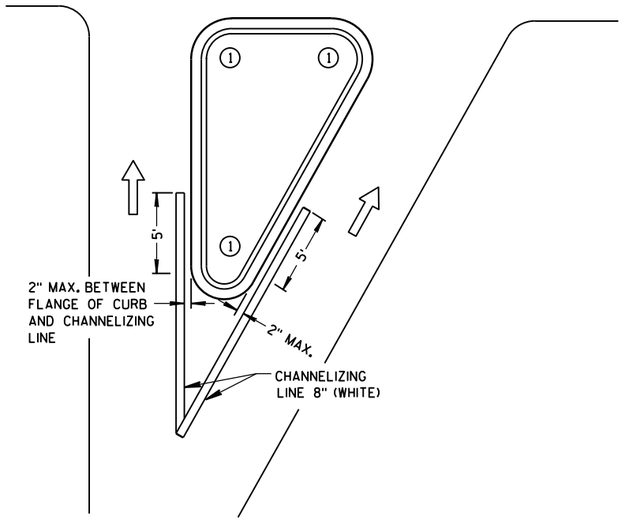


LEFT TURN & MEDIAN ISLAND

GENERAL NOTES

1. DO NOT MARK CURB NOSES THAT SEPARATE LANES OF TRAFFIC TRAVELING IN THE SAME DIRECTION.

2. WHEN CONCRETE CORRUGATED MEDIAN IS CONSTRUCTED TO SEPARATE TRAFFIC OPERATING IN THE OPPOSING DIRECTION YELLOW PAVEMENT MARKING SHALL BE APPLIED TO THE FLAT PORTION OF THE CONCRETE CORRUGATED MEDIAN. THE ITEM OF PAVEMENT MARKING, CONCRETE CORRUGATED MEDIAN, WILL BE MEASURED IN PLACE AND AND ACCEPTED IN ACCORDANCE WITH THE CONTRACT AND PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT.



RIGHT TURN ISLAND

LEGEND

- ISLAND NOSE MARKING
- CURB MARKING
- CORRUGATED MEDIAN MARKING
- DIRECTION OF TRAVEL

PAVEMENT MARKING
(ISLANDS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 15 C 8-17c

6

S.D.D. 15 C 8-17c

LEGEND

SIGN ON PORTABLE OR PERMANENT SUPPORT

DIRECTION OF TRAFFIC

WORK AREA

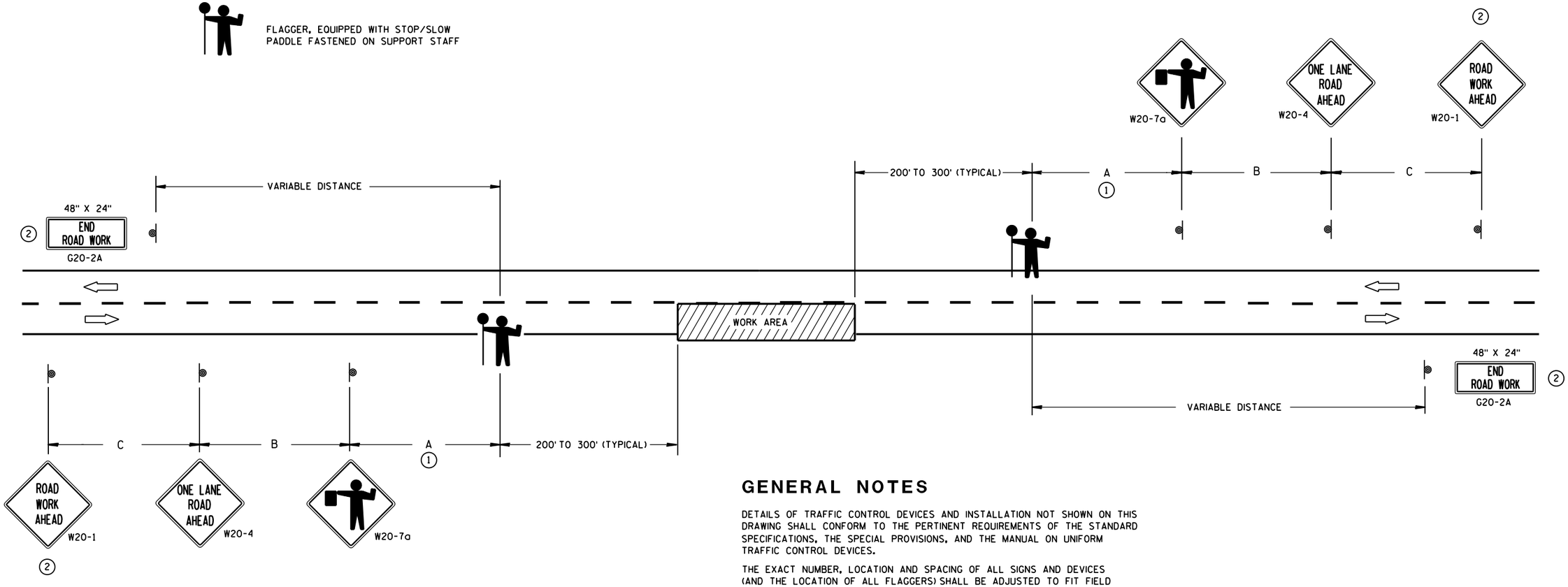
FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

SIGN SPACING TABLE

SPEED LIMIT	SIGN SPACING A,B,C
25-35 MPH	200'
35-40 MPH	350'
45-55 MPH	500'

BE PREPARED TO STOP
W3-4

USE OF THE "BE PREPARED TO STOP" SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7a AND W20-4 SIGNS. A 500' TYPICAL SPACING SHALL BE PROVIDED BETWEEN THE SIGNS.



(1) FOR A MOVING WORK OPERATION,
SIGNING FOR BOTH DIRECTIONS SHALL BE REESTABLISHED (AS SIMULTANEOUSLY AS PRACTICAL) AT APPROXIMATELY 3500 FOOT INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.

(2) SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES (AND THE LOCATION OF ALL FLAGGERS) SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT, COVER OR REMOVE ALL TEMPORARY TRAFFIC CONTROL SIGNS.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
8/2013 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

6

S.D.D. 15 C 12-4

6

S.D.D. 15 C 12-4

LEGEND

SIGN ON PORTABLE OR PERMANENT SUPPORT

DIRECTION OF TRAFFIC

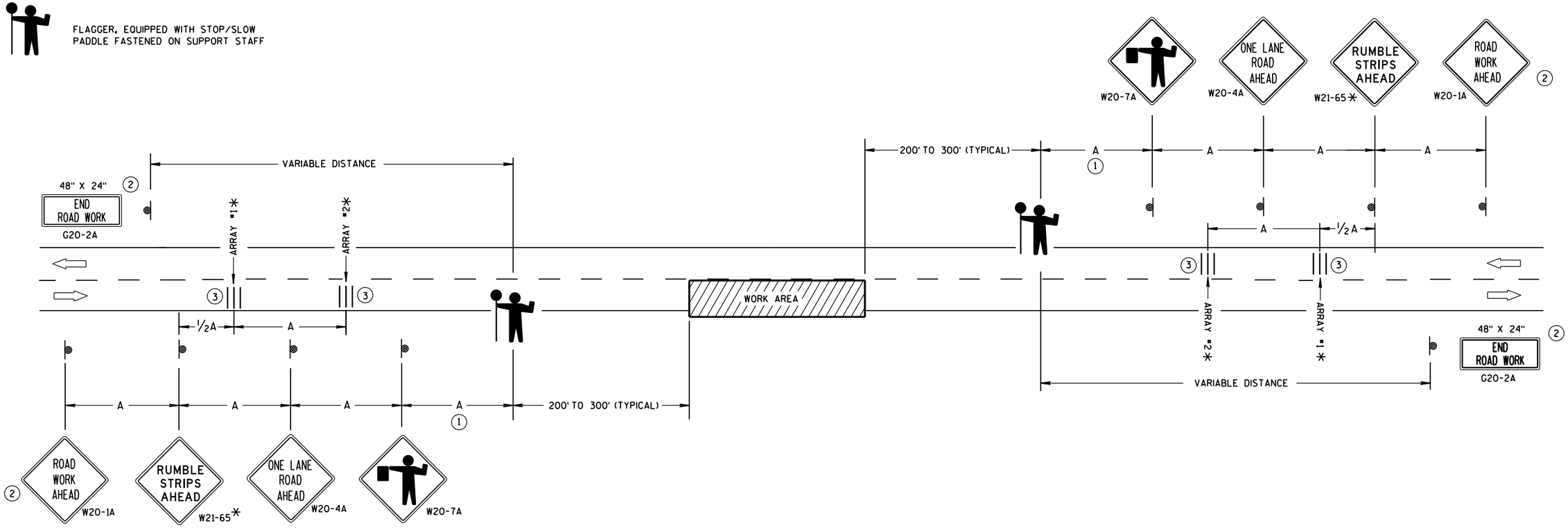
WORK AREA

FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

SPEED LIMIT	SPACING A
25-35 MPH	200'
35-40 MPH	350'
45-55 MPH	500'

USE OF THE "BE PREPARED TO STOP" SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7A AND W20-4A SIGNS, USING SPACING A.



TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES (AND THE LOCATION OF ALL FLAGGERS) SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS.

PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT, REMOVE TEMPORARY RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.

* UTILIZE TEMPORARY RUMBLE STRIPS WHEN FLAGGING OPERATION IS ANTICIPATED TO BE STATIONARY IN EXCESS OF TWO HOURS.

(1) FOR A MOVING WORK OPERATION, SIGNING AND TEMPORARY RUMBLE STRIPS (IF USED) SHALL BE REESTABLISHED (AS SIMULTANEOUSLY AS PRACTICAL) AT APPROXIMATELY 3,500 FOOT INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.

(2) SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

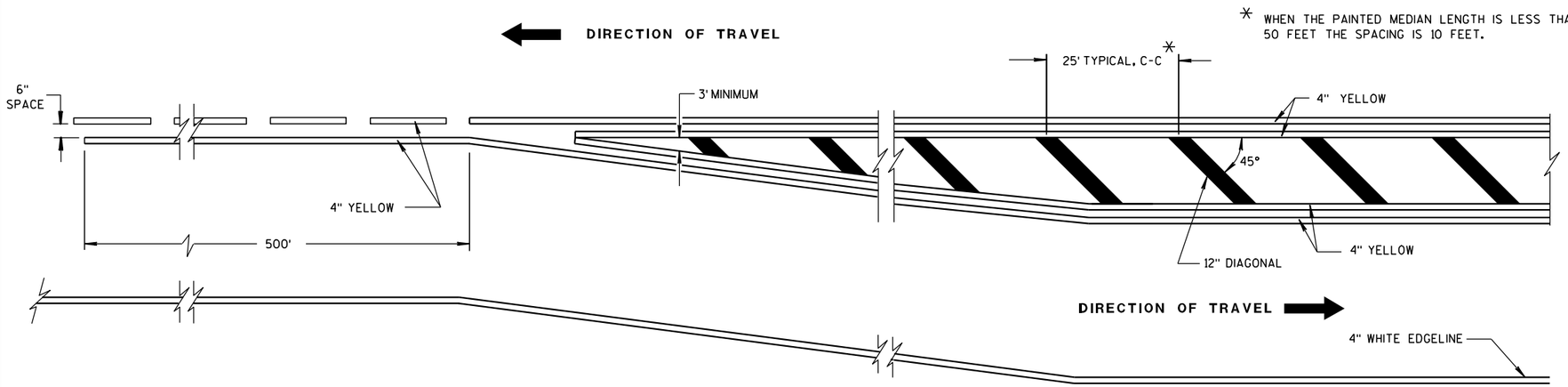
(3) EACH TEMPORARY RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS SPACED ACCORDING TO MANUFACTURER'S RECOMMENDATION, PLACED TRANSVERSE ACROSS THE LANE AT LOCATIONS SHOWN.

TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
December, 2016 — /S/ Andrew Heldtke
DATE — WORK ZONE ENG
FHWA

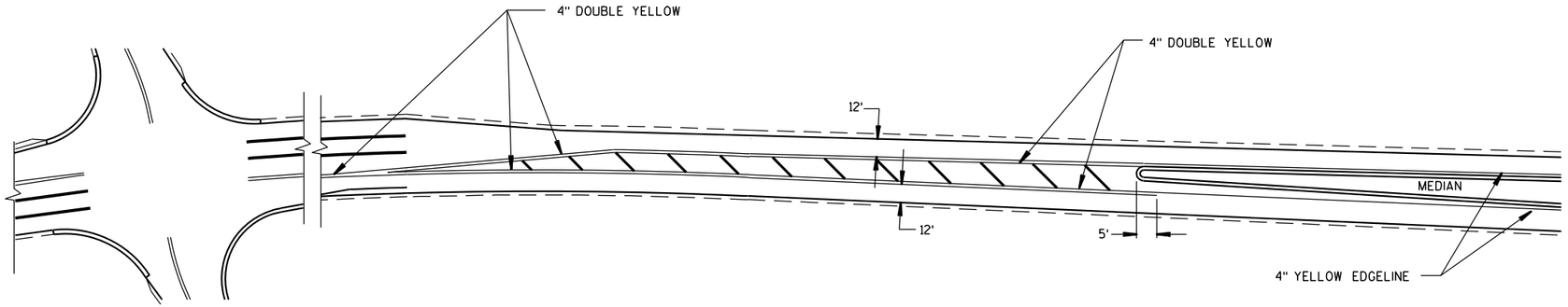
6
S.D.D. 15 C 12-5



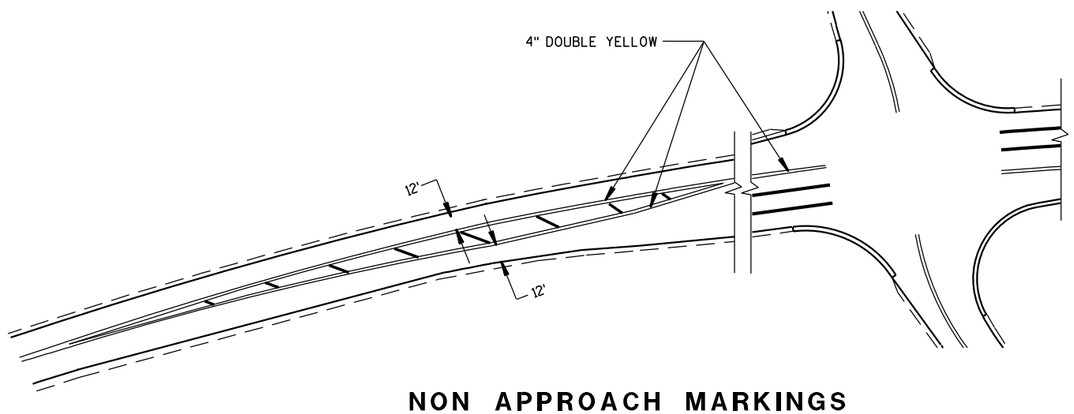
MEDIAN ISLAND DETAIL

GENERAL NOTE

DIAGONALS ARE OPTIONAL WHEN PAINTED ISLAND IS LESS THAN 6 FEET AT WIDEST POINT.



APPROACH MARKINGS FOR OTHER MEDIAN TYPES



NON APPROACH MARKINGS

MEDIAN ISLAND MARKING	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 2-5-09 DATE	/S/ Thomas N. Nothohm STATE TRAFFIC ENGINEER
FHWA	

6

S.D.D. 15 C 18-3

LEGEND

- TRAFFIC CONTROL DRUM
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- FLASHING ARROW BOARD
- WORK AREA

GENERAL NOTES

THIS DETAIL IS TYPICAL FOR CLOSING THE RIGHT SHOULDER. FOR CLOSING THE LEFT SHOULDER, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR DIVIDED ROADWAYS WITH ANY NUMBER OF TRAVEL LANES.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

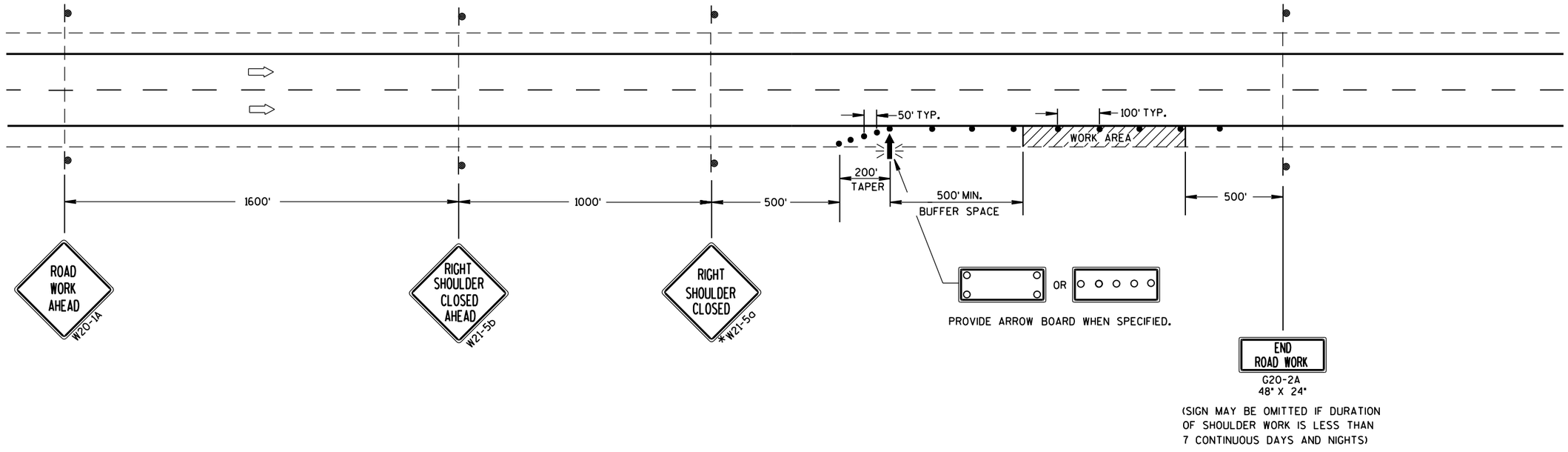
SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

CHANNELIZING DEVICES PLACED ADJACENT TO THE WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

*FOR SHORT DURATION SHOULDER WORK OF LESS THAN ONE HOUR, THE W21-5a SIGN MAY BE OMITTED.



TRAFFIC CONTROL SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June 2016 — DATE

/S/ Peter Amakobe Atepe
STATEWIDE WORK ZO[illegible] SAFETY ENGI[illegible]

FHWA

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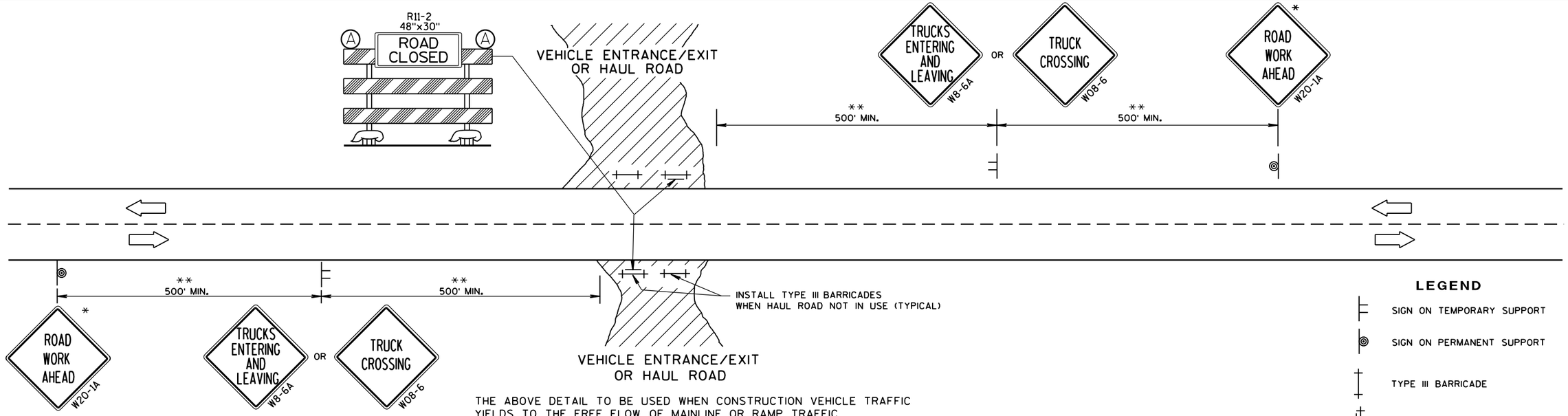
S.D.D. 15 D 27-3



THE ABOVE DETAIL TO BE USED WHEN CONSTRUCTION VEHICLE TRAFFIC YIELDS TO THE FREE FLOW OF MAINLINE OR RAMP TRAFFIC

LEGEND

- SIGN ON TEMPORARY SUPPORT
- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS, DEVICES AND FLAGGERS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

WHEN ACTIVITY REFLECTED BY THE SIGN IS NOT CURRENTLY TAKING PLACE, THE HIGHWAY SHALL BE RESTORED TO NORMAL CONDITION AND THE SIGNS SHALL BE REMOVED, COVERED OR TURNED AWAY FROM TRAFFIC.

WHEN A SIDE ROAD OR RAMP INTERSECTS WITHIN THE ADVANCE SIGNING AREA, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

* THESE SIGNS ARE TO BE USED ONLY WHEN VEHICLE **ENTRANCE/EXIT CONDITIONS ARE SEPARATED BY MORE THAN 2 MILES** FROM PREVIOUS WORK AREA OR SIGNING OR AS DIRECTED BY THE ENGINEER.

** 500 FEET SHOWN IS FOR ROADWAYS WITH A NON-CONSTRUCTION REGULATORY SPEED LIMIT OF 45 MPH OR MORE. FOR 35-40 MPH, USE 350 FEET. FOR 25-30 MPH, USE 200 FEET. USE 1000 FEET/1500 FEET FOR EXPRESSWAY/FREEWAY.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

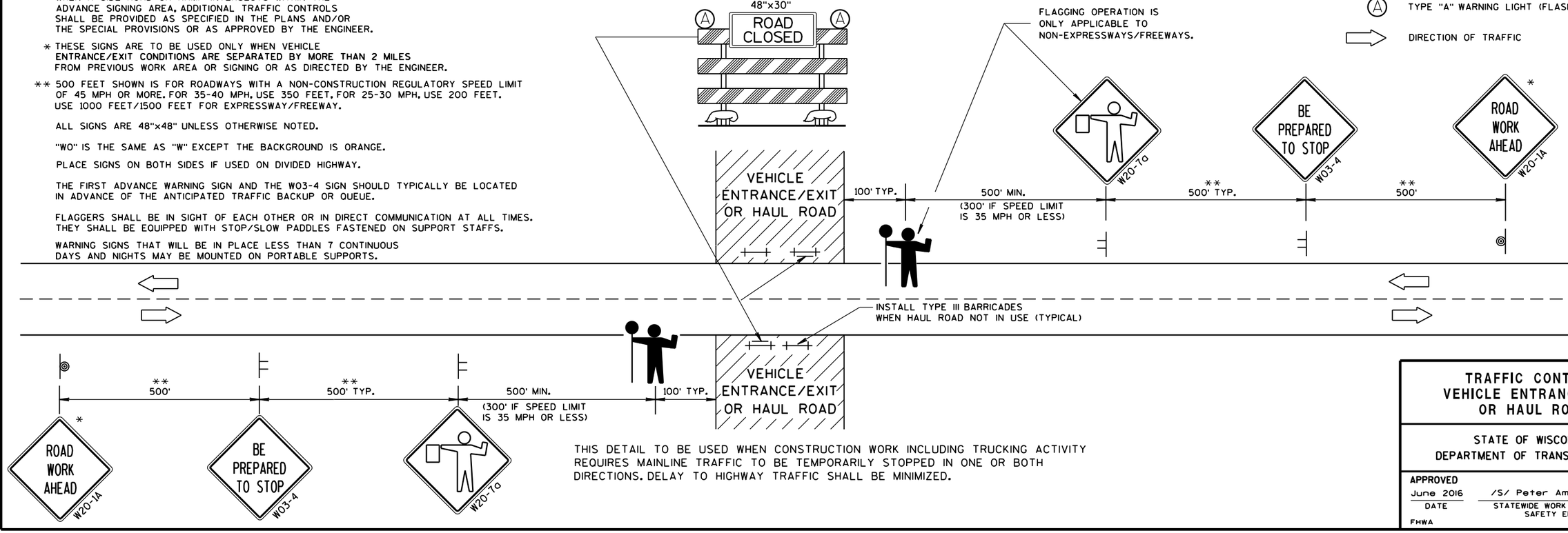
"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

PLACE SIGNS ON BOTH SIDES IF USED ON DIVIDED HIGHWAY.

THE FIRST ADVANCE WARNING SIGN AND THE W03-4 SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS.

WARNING SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.



THIS DETAIL TO BE USED WHEN CONSTRUCTION WORK INCLUDING TRUCKING ACTIVITY REQUIRES MAINLINE TRAFFIC TO BE TEMPORARILY STOPPED IN ONE OR BOTH DIRECTIONS. DELAY TO HIGHWAY TRAFFIC SHALL BE MINIMIZED.

TRAFFIC CONTROL, VEHICLE ENTRANCE/EXIT OR HAUL ROAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June 2016	/S/ Peter Amakobe Atepe
DATE	STATEWIDE WORK ZONE SAFETY ENGINEER

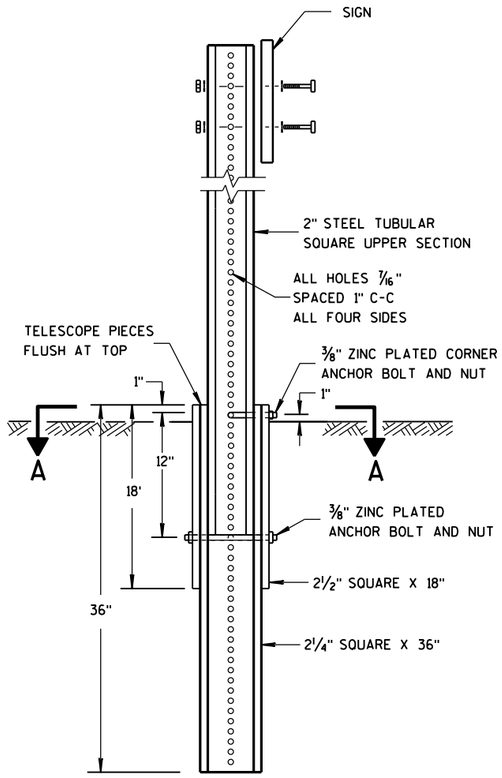
FHWA

6

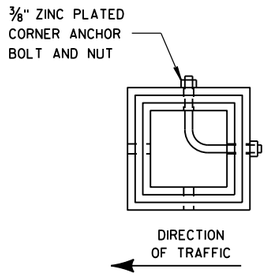
S.D.D. 15 D 29-4

6

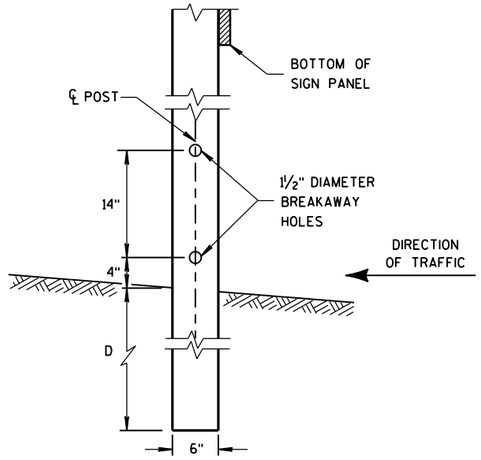
S.D.D. 15 D 29-4



DETAIL OF TUBULAR STEEL SIGN POST



SECTION A-A



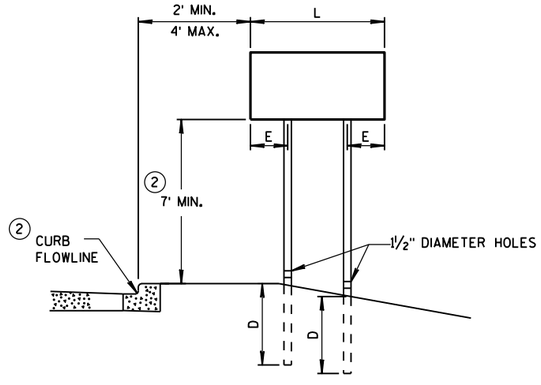
4"x6" WOOD POST MODIFICATION

GENERAL NOTES

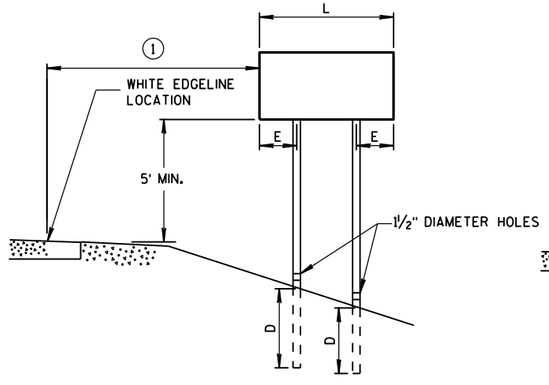
(1) 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.

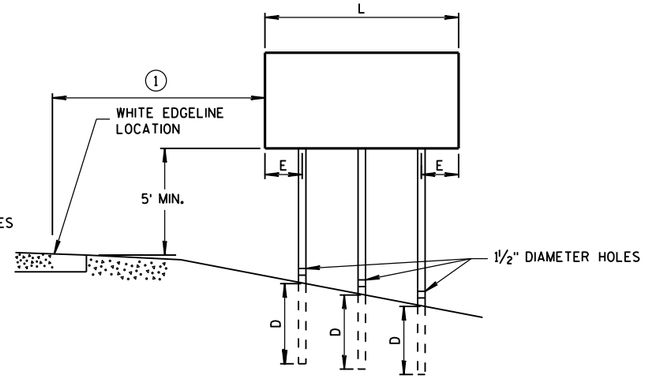
(2) THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY MEASURED WHERE THERE IS SIDEWALK ADJACENT TO THE ROADWAY OR PARKING IS PERMITTED. IN THE ABSENCE OF SIDEWALK, VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE CURB. IF NO SIDEWALK AND NO PARKING, VERTICAL CLEARANCE MAY BE REDUCED TO 5 FOOT MINIMUM. OFFSET OF SIGNS IS MEASURED FROM THE CURB FLOWLINE.

(3) FOR SIGNS REQUIRING 4 POSTS, SPACE INTERMEDIATE POSTS EVENLY.



URBAN AREA





RURAL AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

TUBULAR STEEL POSTS

AREA OF SIGN INSTALLATION (SQ. FT.)	NUMBER OF REQUIRED TUBULAR STEEL POSTS
9 OR LESS	1
GREATER THAN 9 LESS THAN OR EQUAL TO 18	2
GREATER THAN 18 LESS THAN OR EQUAL TO 27	3

SIGNS WIDER THAN 3 FEET OR LARGER THAN 9 SQ. FT. SHALL BE MOUNTED ON MULTIPLE POSTS (SEE ABOVE TABLE).

SIGNS LARGER THAN 27 SQ. FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.

WOOD POST EMBEDMENT DEPTH

AREA OF SIGN INSTALLATION (SQ. FT.)	D (MIN)
20 OR LESS	4'
GREATER THAN 20	5'

4" X 6" WOOD POST

POST SPACING REQUIREMENTS		NUMBER OF WOOD POSTS REQUIRED
L	E	
48" OR LESS AND LESS THAN 20 SQ. FT.	-	1
LESS THAN 60"	12"	2
60" TO 120"	L/5	2
GREATER THAN 120" LESS THAN 168"	12"	3
168" AND GREATER	12"	4

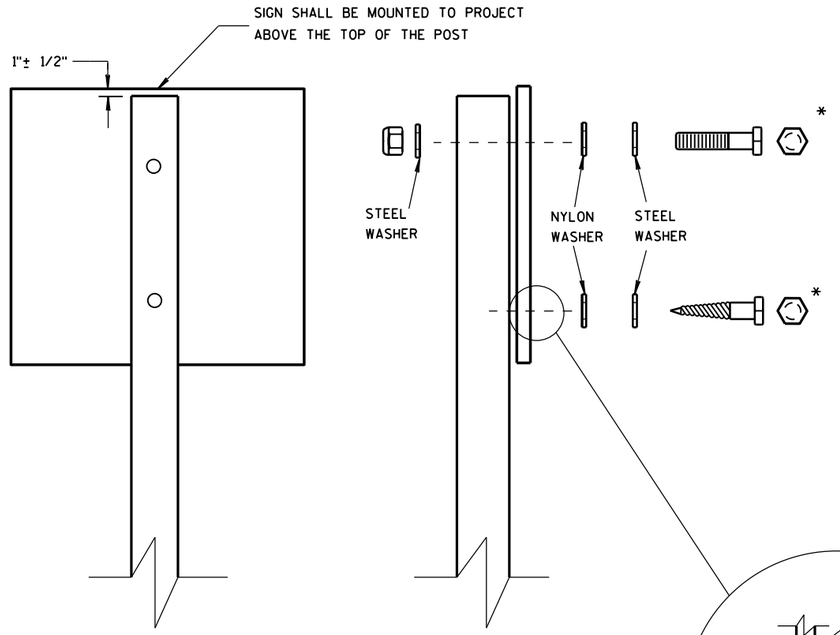
SEE NOTE (3)

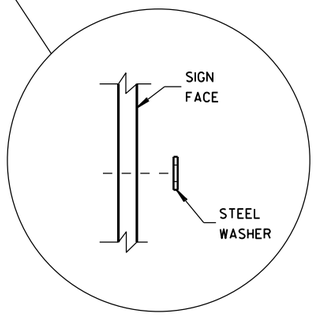
TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

STATE OF WISCONSIN DEPARTMENT OF TRANSPOR

6

S.D.D. 15 D 38-1a





WASHER PLACEMENT WHEN SIGN HAS OTHER THAN TYPE H OR TYPE F FACE

NUTS, BOLTS AND LAGS USED FOR MOUNTING SIGNS SHALL HAVE HEXAGONAL HEADS AND SHALL BE EITHER:

A. HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: A 153, CLASS D, OR SC 3

B. ELECTRO-GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: B 633, TYPE III, SC 3

THREADS ON BOLTS AND NUTS SHALL BE MANUFACTURED WITH SUFFICIENT ALLOWANCE FOR THE CADMIUM PLATE OR GALVANIZED COATING TO PERMIT THE NUTS TO RUN FREELY ON THE BOLTS.

WOOD POSTS (4" x 4" or 4" x 6")

LAG SCREWS - 3/8" X 3"

MACHINE BOLTS - 5/16" X 6-1/2" OR 7" LENGTH W/ NUTS

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" LENGTH W/ NUTS

RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL

1-1/4" O.D. X 3/8" I.D. X .080 NYLON FOR ALL TYPE H SIGNS

* TWO DIFFERENT FASTENING SYSTEMS ARE SHOWN FOR ILLUSTRATION PURPOSES. ON ANY INDIVIDUAL SIGN, EITHER ONE OR THE OTHER SYSTEM SHALL BE USED. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA. FOR A SINGLE POST INSTALLATION, ALL SIGNS GREATER THAN 9 SQ. FT. REQUIRE THE USE OF 3 FASTENERS.

6

6

S.D.D. 15 D 38-1b

S.D.D. 15 D 38-1b

ATTACHMENT OF SIGNS TO POSTS

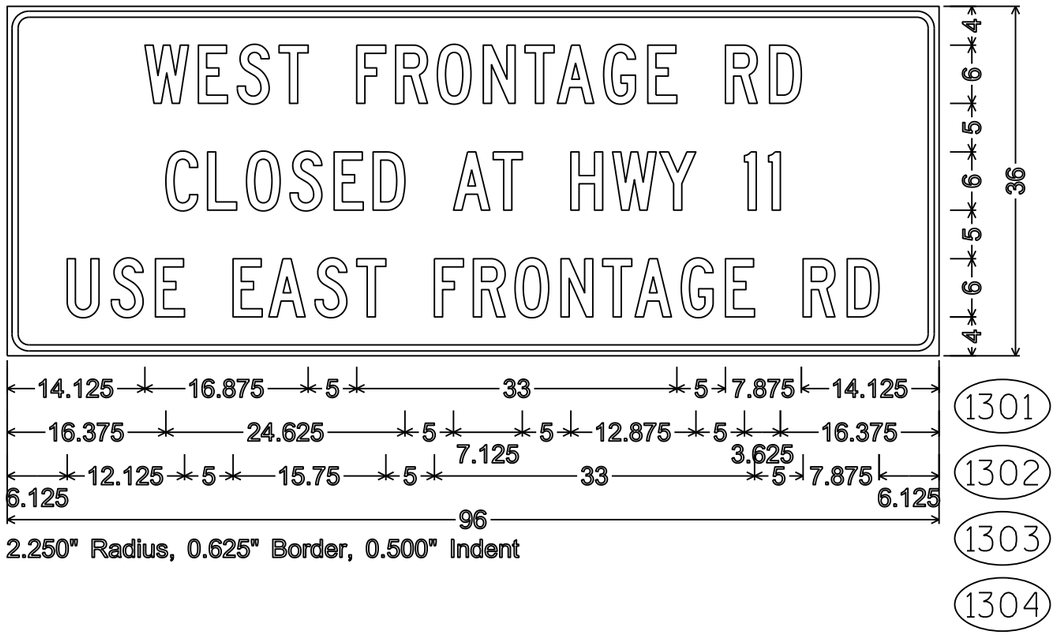
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Feb. 2015 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

SIGN

NOTES

1. Fixed Message Type II Signs - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C



2.250" Radius, 0.625" Border, 0.500" Indent

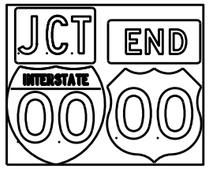
7

7

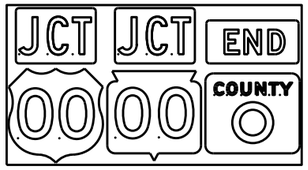
PROJECT NO: 1030-24-74	HWY: IH 94	COUNTY: RACINE	TEMPORARY SIGNING	SHEET NO: 189	E

TYPICAL ASSEMBLIES

J1-1

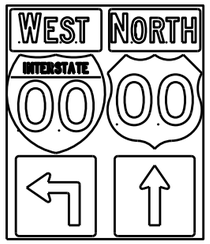


J1-2

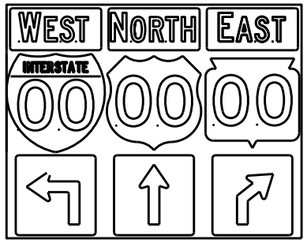


J1-3

J2-1



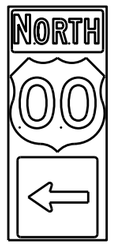
J2-2



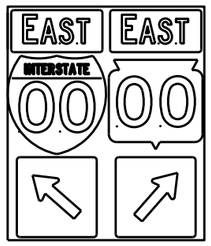
J2-3

JV

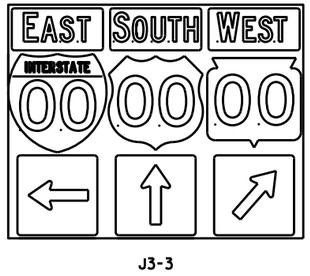
(Typical Vertical J-Assembly
See Note 10 and 11)



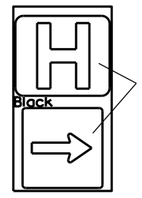
J3-1



J3-2



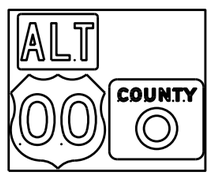
J3-3



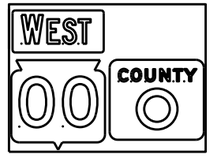
Blue Background

JH-1

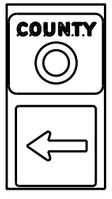
J4-1



J4-2



J4-2



J13-1

J12-1

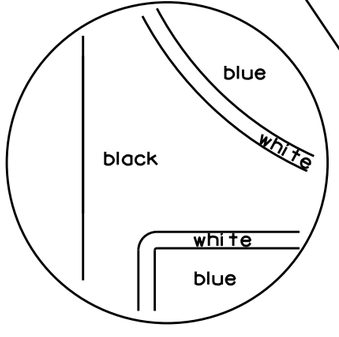
J32-1

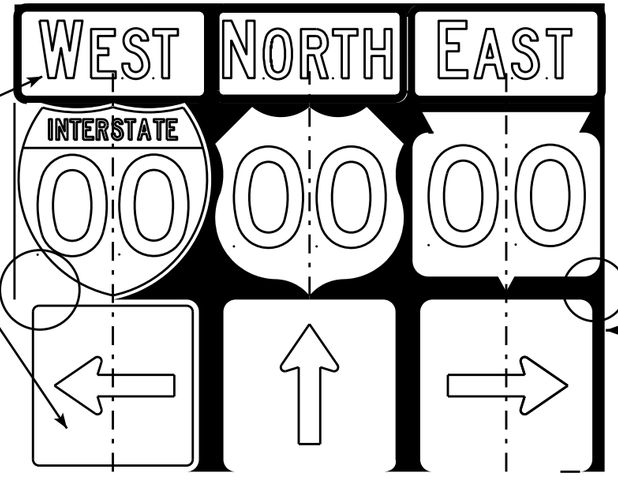
J33-1

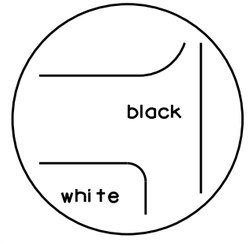
J23-1

J22-1

[blue background with interstate]







[black background]

NOTES

1. Signs are Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Black Non-reflective
   Message - see Note 5
3. Message Series - See Note 5
4. Corners shall be square or rounded if base material is plywood. If base material is metal the corners shall be rounded.
5. The colors and message spacing on each marker shall be according to the applicable route marker panel specifications.
6. Certain marker heads require the component pieces to be the same color. As an example, all the components used with an M1-1 Interstate marker shall be blue.
7. Single panel j-assemblies shall only be used with route marker shields that are same size. If the route marker shields are different size use multiple piece component.
8. Route assemblies that have 24 inch route shields and have dimensions greater than 48 inches (both vertical and horizontal) shall have one horizontal splice between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 inches or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
9. Route assemblies that have 36 inch shields and have dimensions greater than 48 inchs (both vertical and horizontal) shall have two horizontal splices. One horizontal splice shall be between the cardinal direction and route shields and the other horizontal splice shall be between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
10. All Vertical J Assemblies are given a Sign Code of JV
11. For JV Assemblies that have a mixture of Interstate and non Interstate shields, arrows and cardinals shall be white on blue.

ROUTE MARKERS & COMPONENTS
IN TYPICAL ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

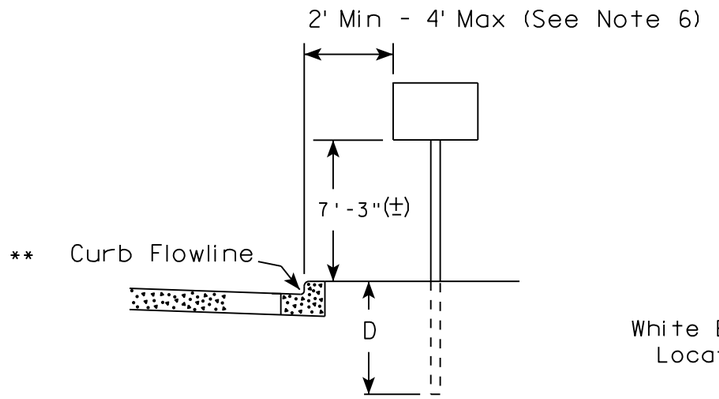
DATE 2/06/14 PL... A2-1S.8

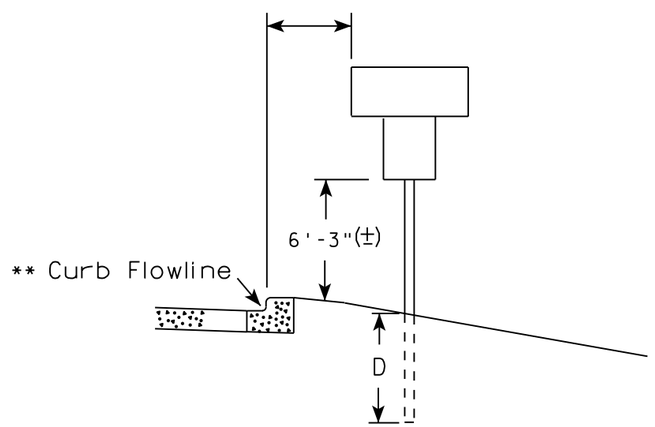
PROJECT NO: SHEET NO: E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A21S.DGN PLOT DATE : 06-FEB-2014 14:10 PLOT BY : mscsja PLOT NAME :

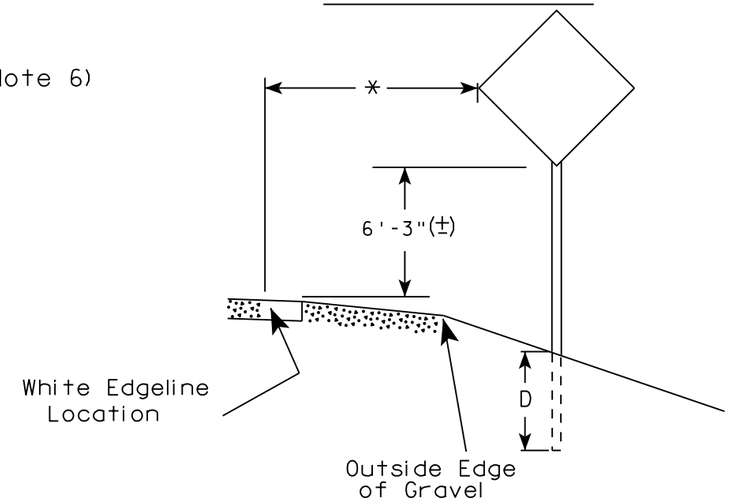
WISDOT/CADDS SHEET 42

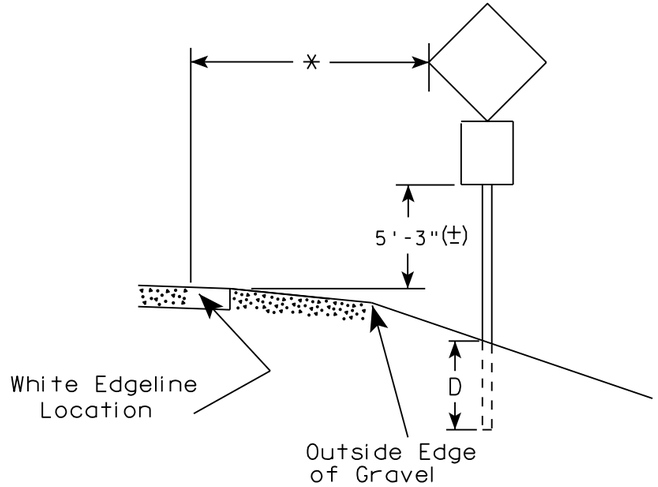
URBAN AREA





RURAL AREA (See Note 2)





GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on barrier wall, see A4-10 sign plate.
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. J-Assemblies are considered to be one sign for mounting height.
5. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. The (±) tolerance for mounting height is 3 inches.
8. Folding signs shall be mounted at a height of 5'-3" (±) or as directd by the Engineer.
9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq.Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

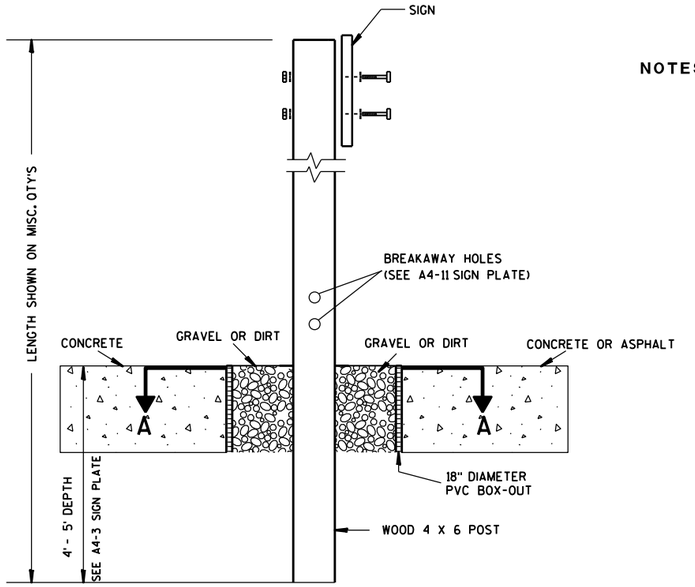
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 8/21/17 PLATE NO. A4-3.21

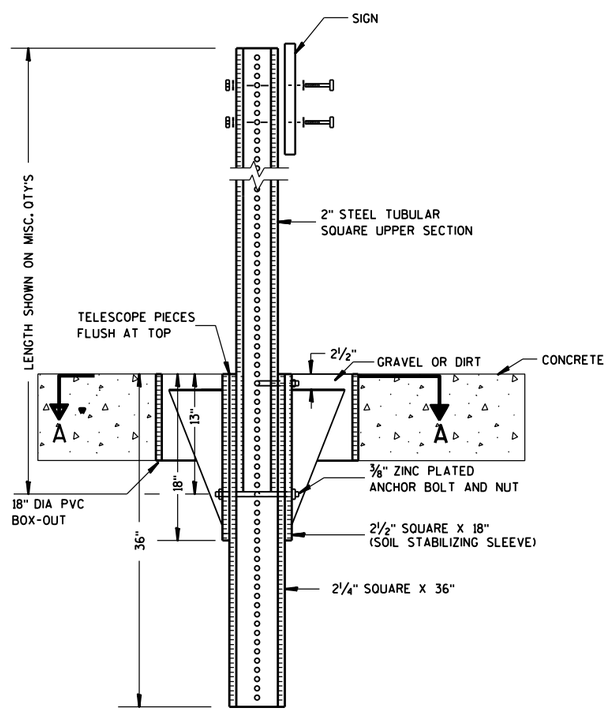
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 191	E



ELEVATION VIEW

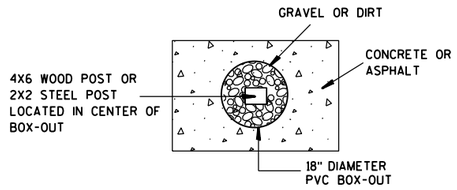
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

NOTES:
1. ALL MATERIAL TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION
2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

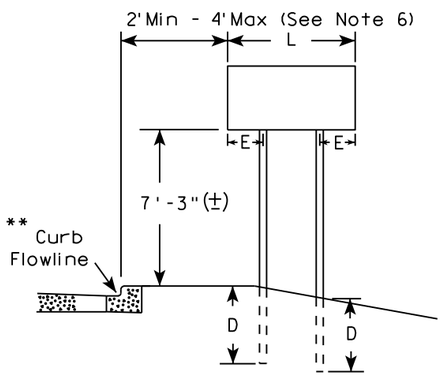
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

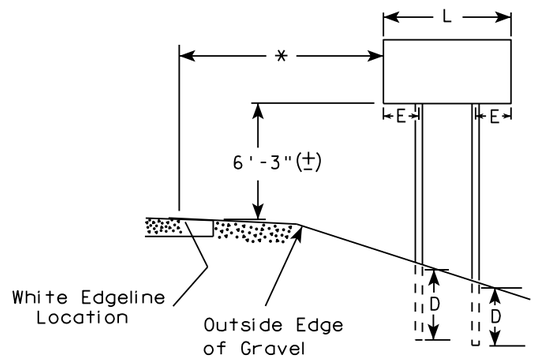
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

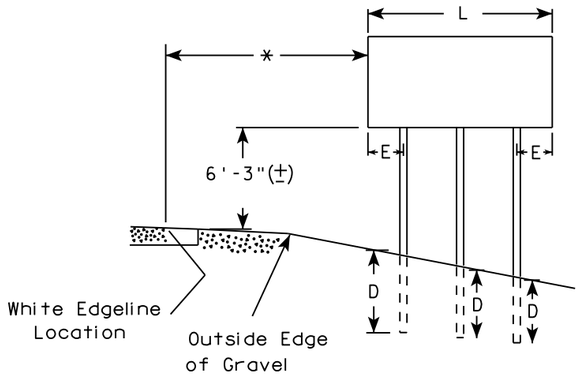
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN PLOT DATE : 27-JAN-2014 09:48 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42

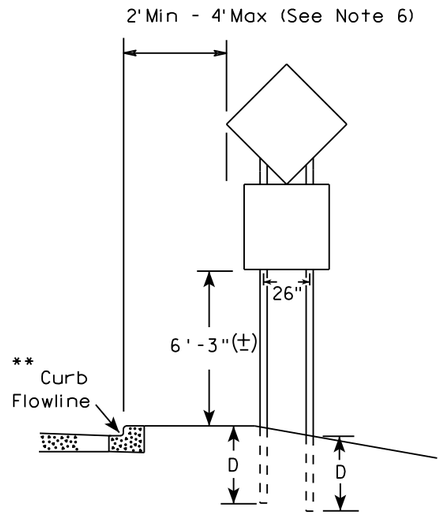
URBAN AREA



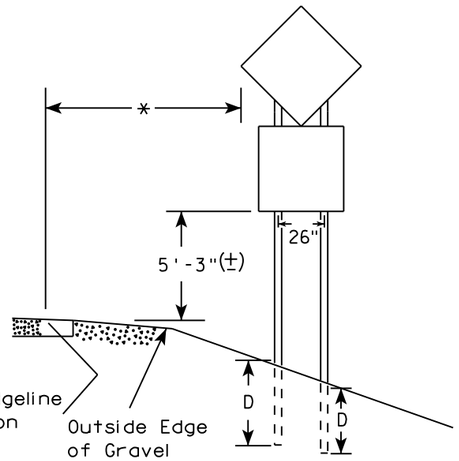
RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

***	SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)	
	L	E
	Greater than 48" Less than 60"	12"
	60" to 108"	L/5

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 108" to 144"	12"

GENERAL NOTES

1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
2. See tables below for required number of posts.
3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
4. The (±) tolerance for mounting height is 3 inches.
5. J-Assemblies are considered to be one sign for mounting height.
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±).

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

*** See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

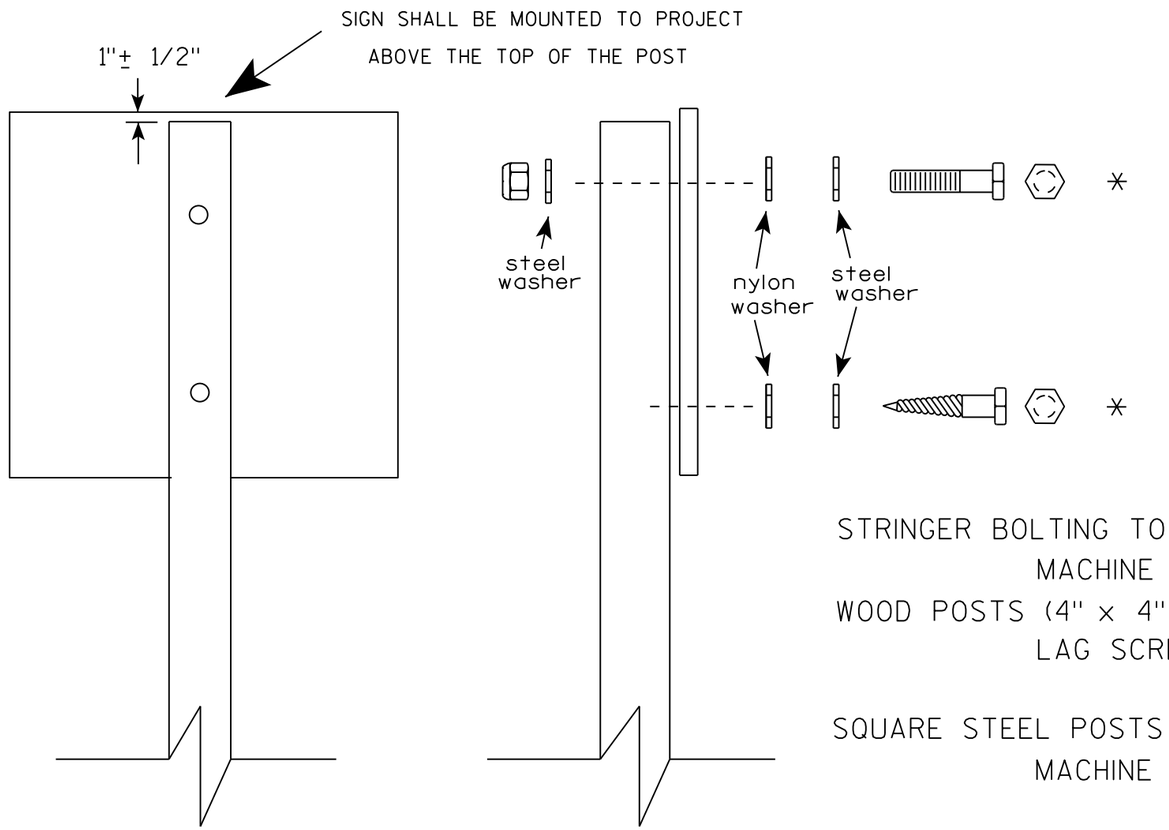
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/21/17 PLATE NO. A4-4.15

7

7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 193 | E



Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3
b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)
MACHINE BOLTS - 5/16" X 1-3/4" Length w/ lock nuts
WOOD POSTS (4" x 4" or 4" x 6")
LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)
3/8" X 4" (STRINGERS ON BACK OF SIGN)
SQUARE STEEL POSTS (2" x 2")
MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)
3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)
RIVETS - 9/32 " (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH
WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON

* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

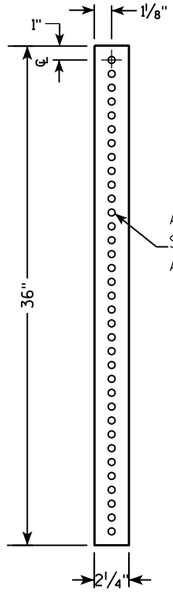
DATE 8/11/16 PLATE NO. A4-8.8

PROJECT NO: SHEET NO: E

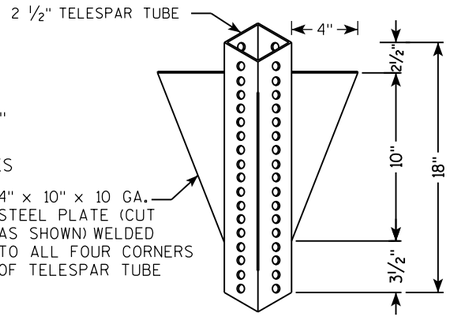
FILE NAME : C:\CADfiles\Projects\tr_stdplate\A48.DGN PLOT DATE : 11-AUG-2016 11:35 PLOT BY : $$ plotuser $$

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

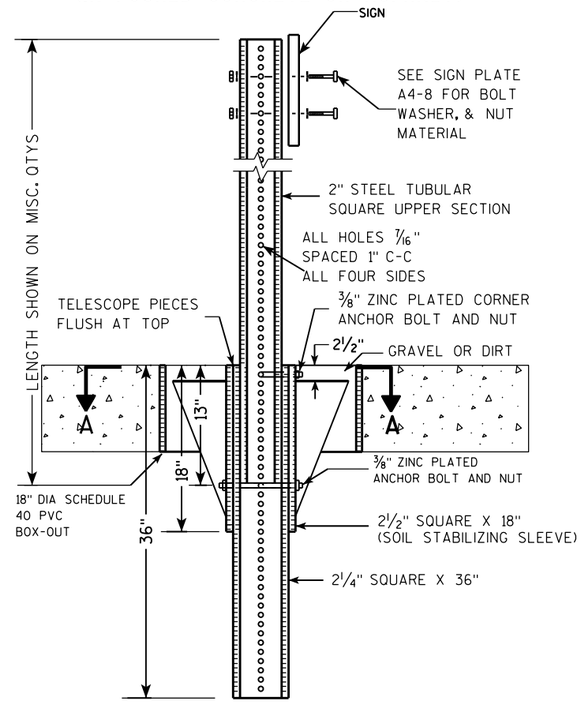
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



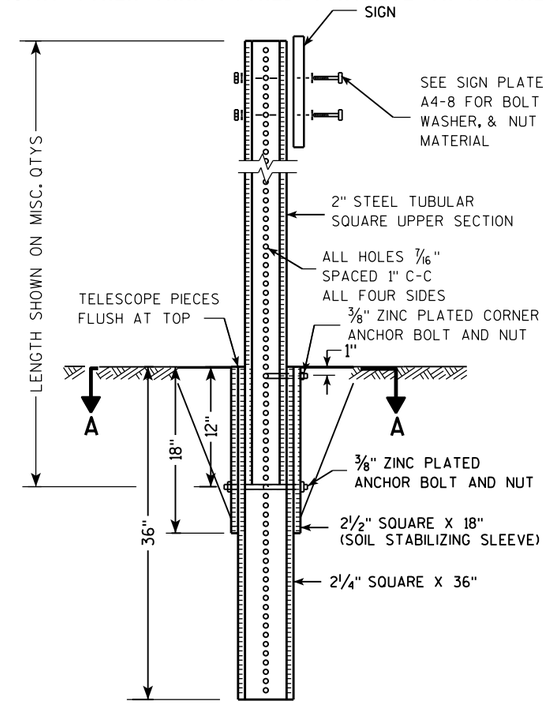
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

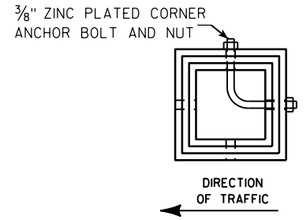


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



DETAIL OF TUBULAR STEEL SIGN POST
(IN LOCATIONS OTHER THAN POURED CONCRETE OR ASPHALT)





SECTION A-A

Area of Sign Installation (Sq. Ft.)	Number of Required Posts
9 or less	1
Greater than 9 less than or equal to 18	2
Greater than 18 less than or equal to 27	3

Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

TUBULAR STEEL
SIGN POST
A4-9

WISCONSIN DEPT OF TRANSPORTATION

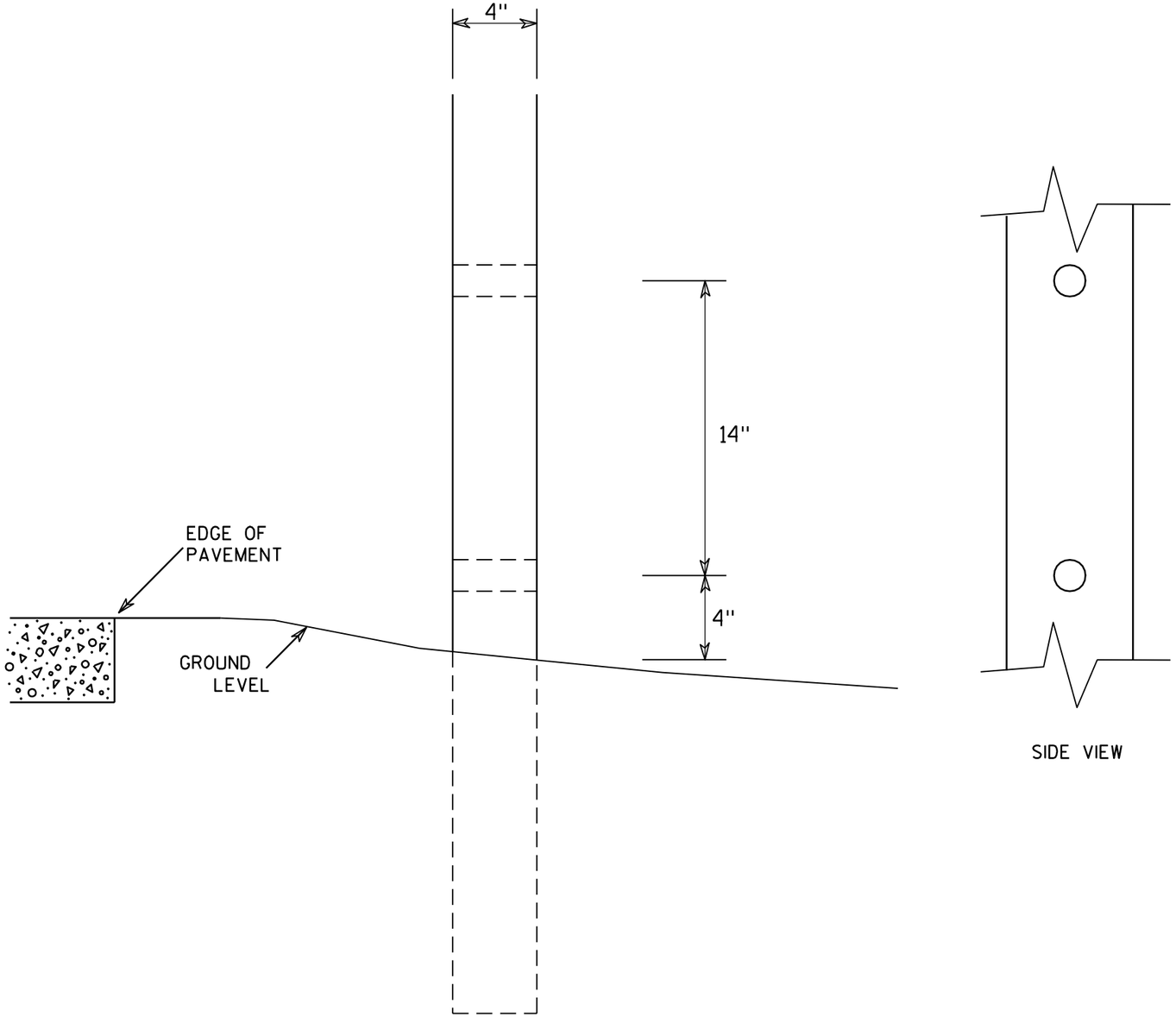
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE 195 A4-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN PLOT DATE : 05-FEB-2015 17:09 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000

WISDOT/CADDS SHEET 42



SIDE VIEW

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

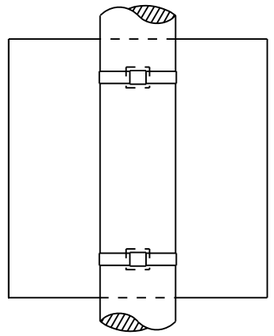
APPROVED Chester J Spang for State Traffic Engineer

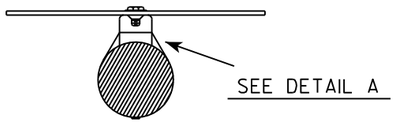
DATE 3/27/97 PLATE NO. A4-11.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 196	E

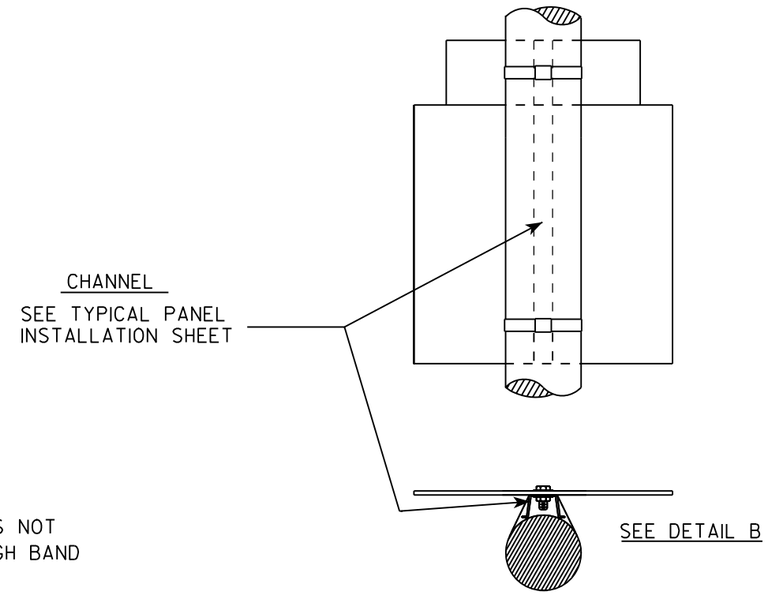
BANDING

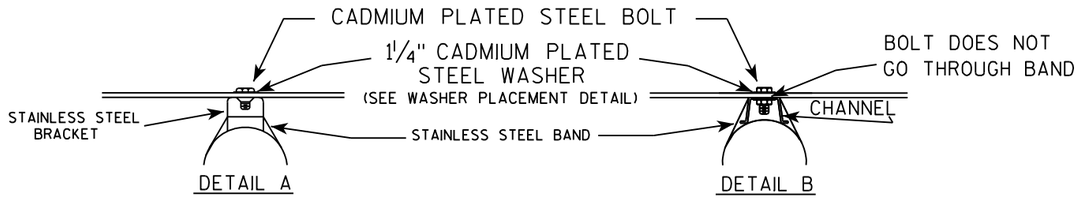
SINGLE SIGN



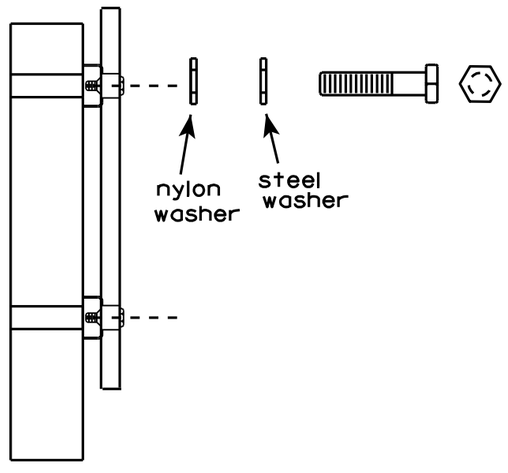


"J" ASSEMBLY





WASHER PLACEMENT



WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be 3/4" in width and 0.025" thickness.

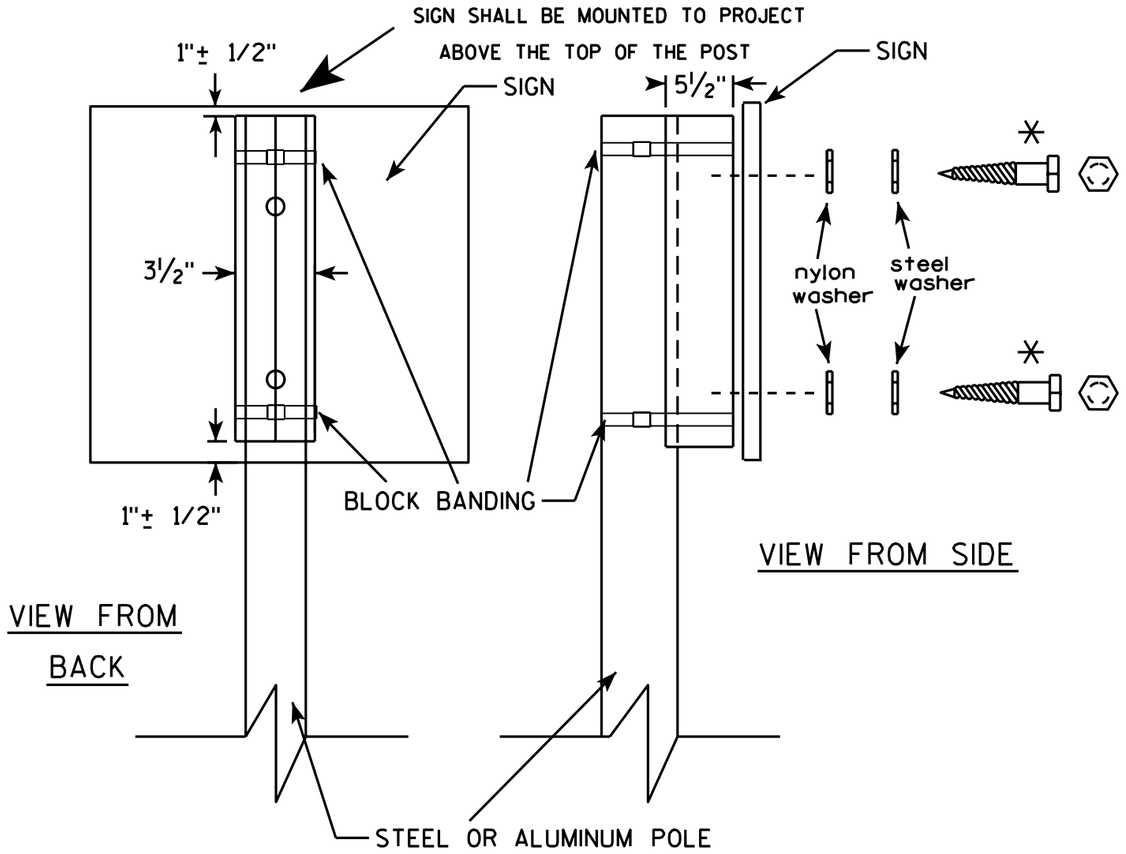
STANDARD SIGN
SIGN BANDING DETAILS

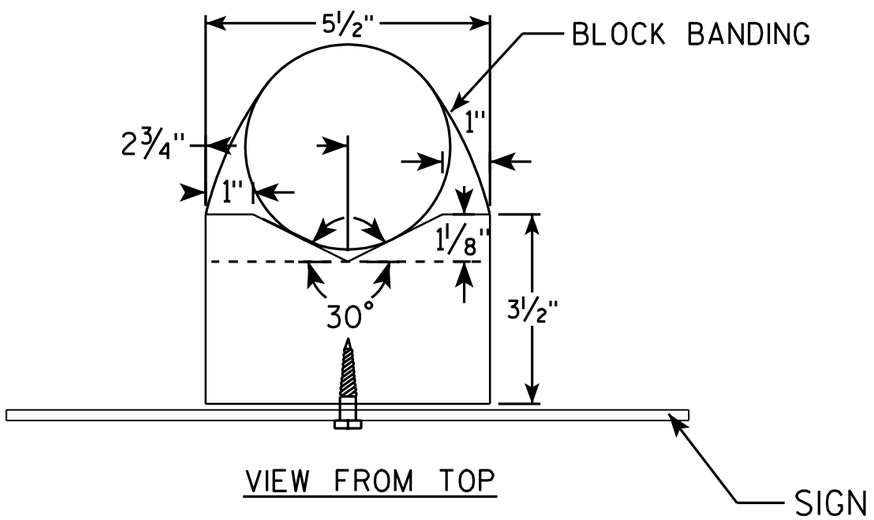
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/16/13 PLATE NO. A5-9.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 197	E





GENERAL NOTES

1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WisDOT STANDARD SPECIFICATIONS
2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, ¾" WIDTH AND 0.025" THICKNESS
3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D, or
   b. Cadmium plated in accordance with ASTM Designation : B 766 TYPE 3, Class 12, or
   c. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.
6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
7. STEEL WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X 1/16"
8. NYLON WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

✳ LAG BOLTS SHALL BE ⅜" X 2½"

BLOCK BANDING DETAIL (V-BLOCK OPTION)

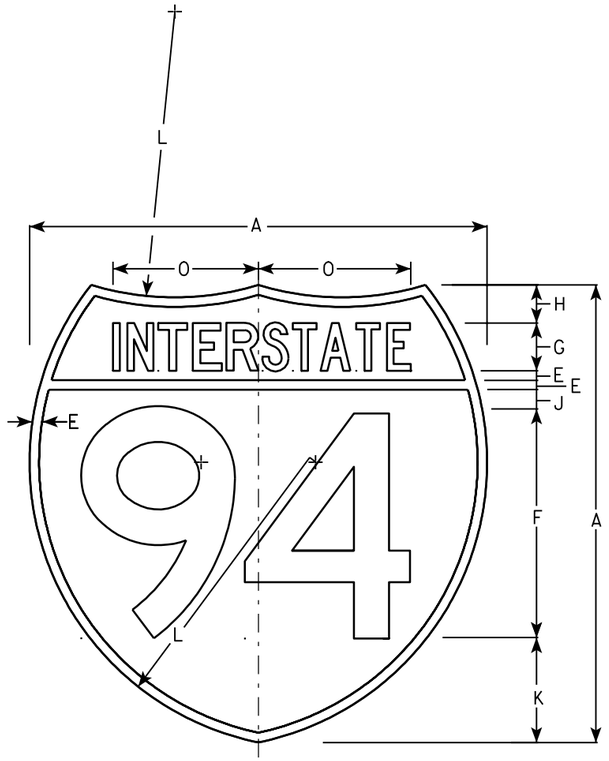
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

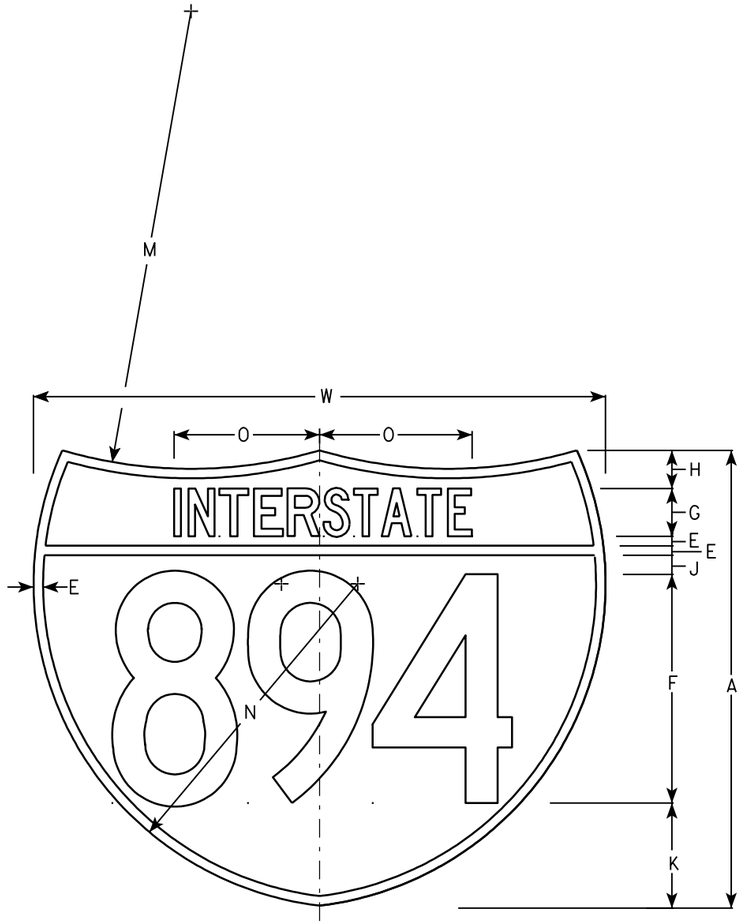
DATE 7/12/07 PLATE NO. A5-10.1

PROJECT NO:

SHEET NO: 198 E



M1-1



M1-1A

NOTES

1. Sign is Type II - See Note 6 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Top Red - Bottom Blue (See Note 6)
   Message - White - See Note 6
3. Message Series - See note 5
4. Substitute appropriate numerals & ajust spacing as per plate A10-1.
5. M1-1 - Numerals - D
   Interstate - C
   M1-1A - All copy - C
6. Permanent Signs
   Message - Type H Reflective
   Detour or other temporary signs
   Background - Reflective
   Message - Reflective

Metric equivalent for these signs are:

SIZE	M1-1	SIZE	M1-1A
1			
2	600 mm X 600 mm	2	600 mm X 750 mm
3	900 mm X 900 mm	3	900 mm X 1125 mm
4	900 mm X 900 mm	4	900 mm X 1125 mm
5	900 mm X 900 mm	5	900 mm X 1125 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	M1-1 Area sq. ft.	M1-1A Area sq. ft.	M1-1 Area m2	M1-1A Area m2
1																													
2	24				1/2	12	2 1/2	2		1	5 1/2	15	24	17	7 7/8								30			3.13	3.91	.36	.46
3	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79	.81	1.05
4	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79	.81	1.05
5	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79	.81	1.05

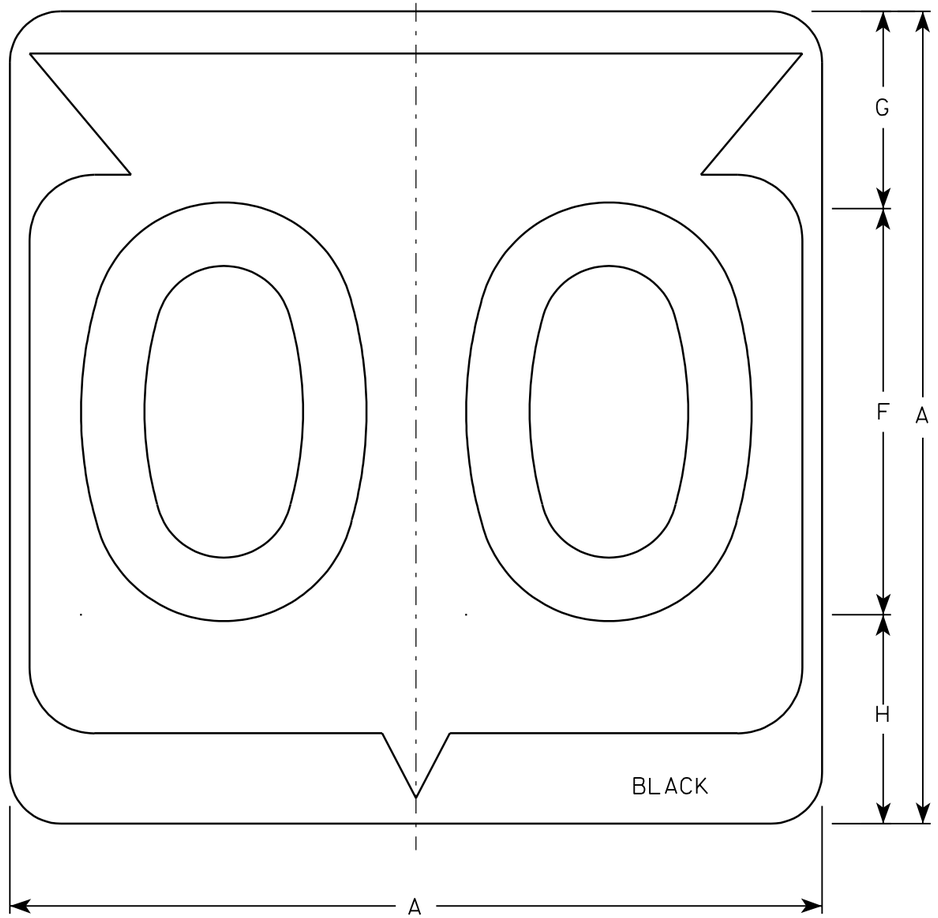
INTERSTATE ROUTE MARKER
M1-1 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 08/23/05 PLATE NO. M1-1.8

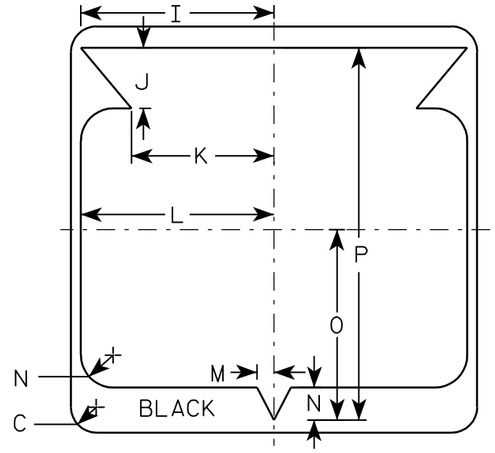
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 199	E



M1-6

NOTES

1. Sign is Type II - See Note 6 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White & Black - See Note 6
   Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate Series numerals and adjust spacing as per plate A10-1.
6. Permanent Signs
   Background - Type H Reflective
   Detour or temporary Signs
   Background - Reflective



Metric equivalent for this sign is:

SIZE	
1	
2	600 mm X 600 mm
3	900 mm X 900 mm
4	900 mm X 900 mm
5	900 mm X 900 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 7/8	11 1/2	1	1 7/8	11 1/4	21 7/8											4.0	.36
3	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81
4	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81
5	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81

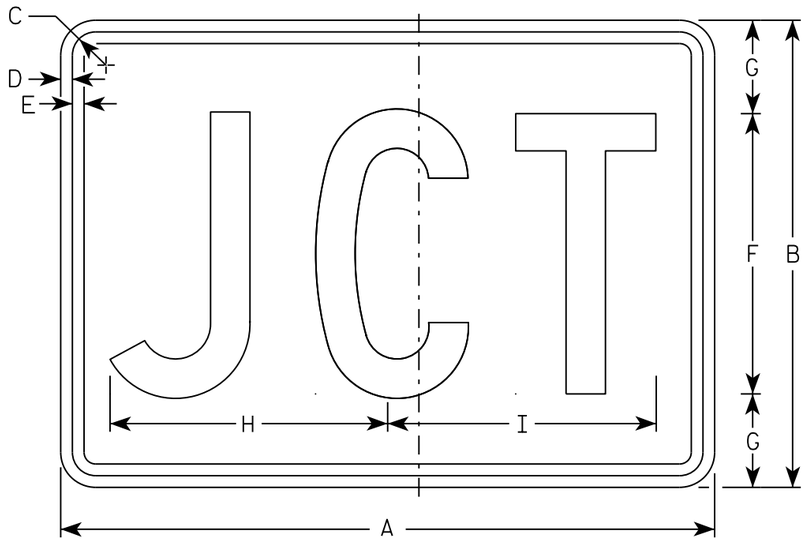
STATE ROUTE MARKER M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

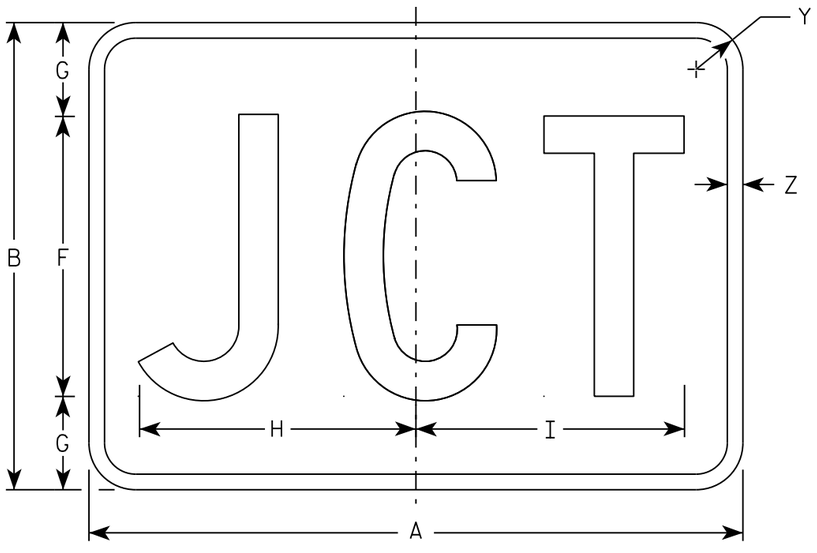
APPROVED Chester J Spang for State Traffic Engineer

DATE 3/20/02 PLATE NO. M1-6.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 200	E



M2-1
MM2-1
MP2-1



MB2-1
MK2-1
MN2-1
MR2-1

NOTES

1. Sign is Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M2-1 Background - White
   Message - Black
   MB2-1 Background - Blue
   Message - White
   MK2-1 Background - Green
   Message - White
   MM2-1 Background - White
   Message - Green
   MN2-1 Background - Brown
   Message - White
   MP2-1 Background - White
   Message - Blue
   MR2-1 Background - Brown
   Message - Yellow

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21	15	1 1/8	3/8	3/8	9	3	8 7/8	8 5/8																1 1/2	1/2	2.20
3	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40
4	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40
5	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40

STANDARD SIGN
M2-1

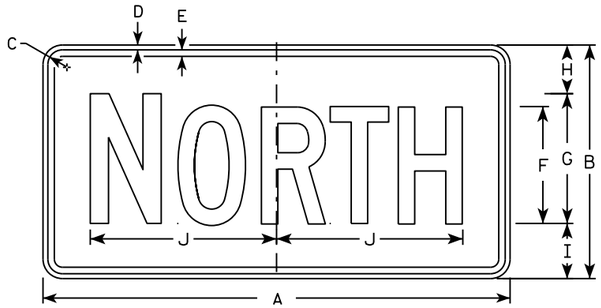
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

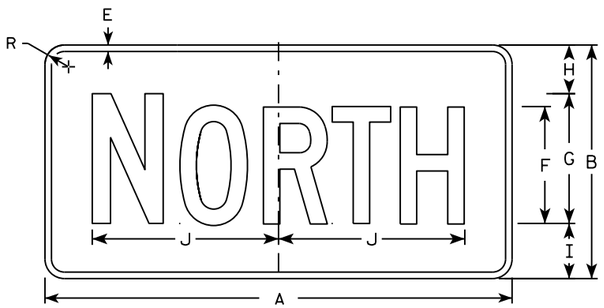
DATE 10/15/15 PLATE 201 12-1.12

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M21.DGN PLOT DATE : 01-DEC-2015 17:54 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 4.864603:1.000000



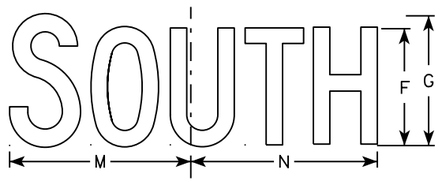
M3-1
MM3-1
MP3-1



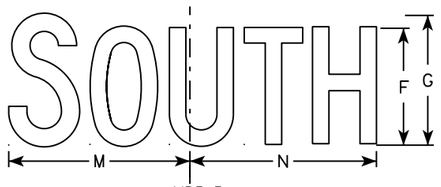
MB3-1
MK3-1
MN3-1

M3-2
MM3-2
MP3-2

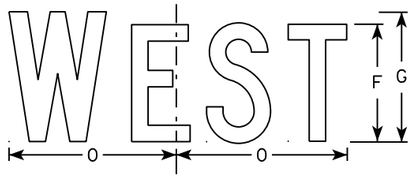
MB3-2
MK3-2
MN3-2



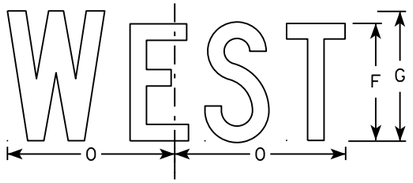
M3-3
MM3-3
MP3-3



MB3-3
MK3-3
MN3-3



M3-4
MM3-4
MP3-4



MB3-4
MK3-4
MN3-4

NOTES

1. All Signs Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M3-1 thru M3-4 Background - White
   Message - Black
   MB3-1 thru MB3-4 Background - Blue
   Message - White
   MK3-1 thru MK3-4 Background - Green
   Message - White
   MM3-1 thru MM3-4 Background - White
   Message - Green
   MN3-1 thru MN3-4 Background - Brown
   Message - White
   MP3-1 thru MP3-4 Background - White
   Message - Blue
6. Note the first letter of each direction is larger than the remainder of the message.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 7/8	8 3/8	10 1/4	9 3/4	8 3/4			1 1/2									2.00
3	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
4	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
5	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5

STANDARD SIGNS
M3-1 thur M3-4
SERIES

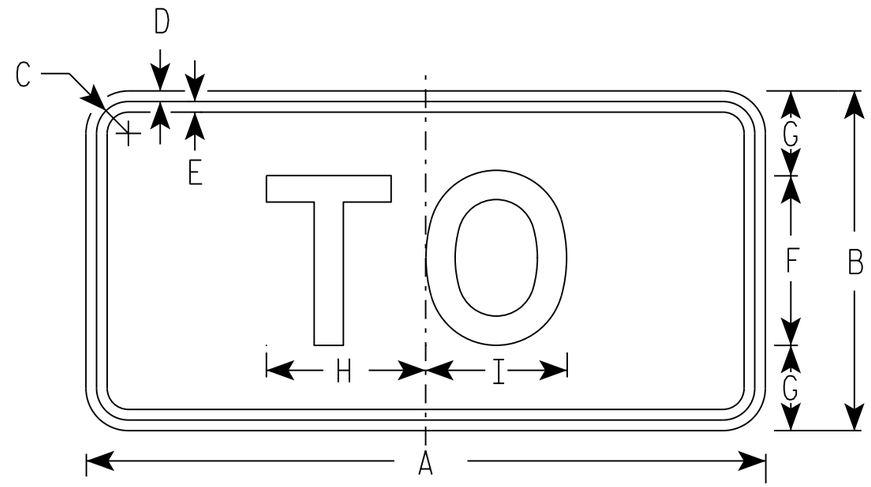
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew P Rauch for State Traffic Engineer

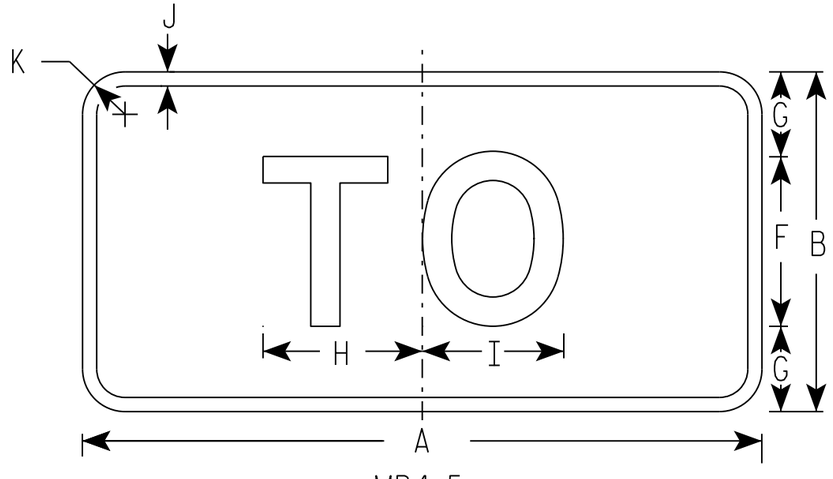
DATE 10/15/15 PLATE NO M3-1.14

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M31.DGN PLOT DATE : 01-DEC-2015 17:54 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



M4-5
MM4-5
MP4-5



MB4-5
MK4-5
MN4-5

NOTES

1. Sign is Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M4-5 Background - White
   Message - Black

   MB4-5 Background - Blue
   Message - White

   MK4-5 Background - Green
   Message - White

   MM4-5 Background - White
   Message - Green

   MN4-5 Background - Brown
   Message - White

   MP4-5 Background - White
   Message - Blue

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	3	5 3/8	5 1/4	1/2	1 1/2																2.00
3	36	18	1 3/8	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2	1 1/2																4.5
4	36	18	1 3/8	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2	1 1/2																4.5
5	36	18	1 3/8	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2	1 1/2																4.5

STANDARD SIGN
M4-5

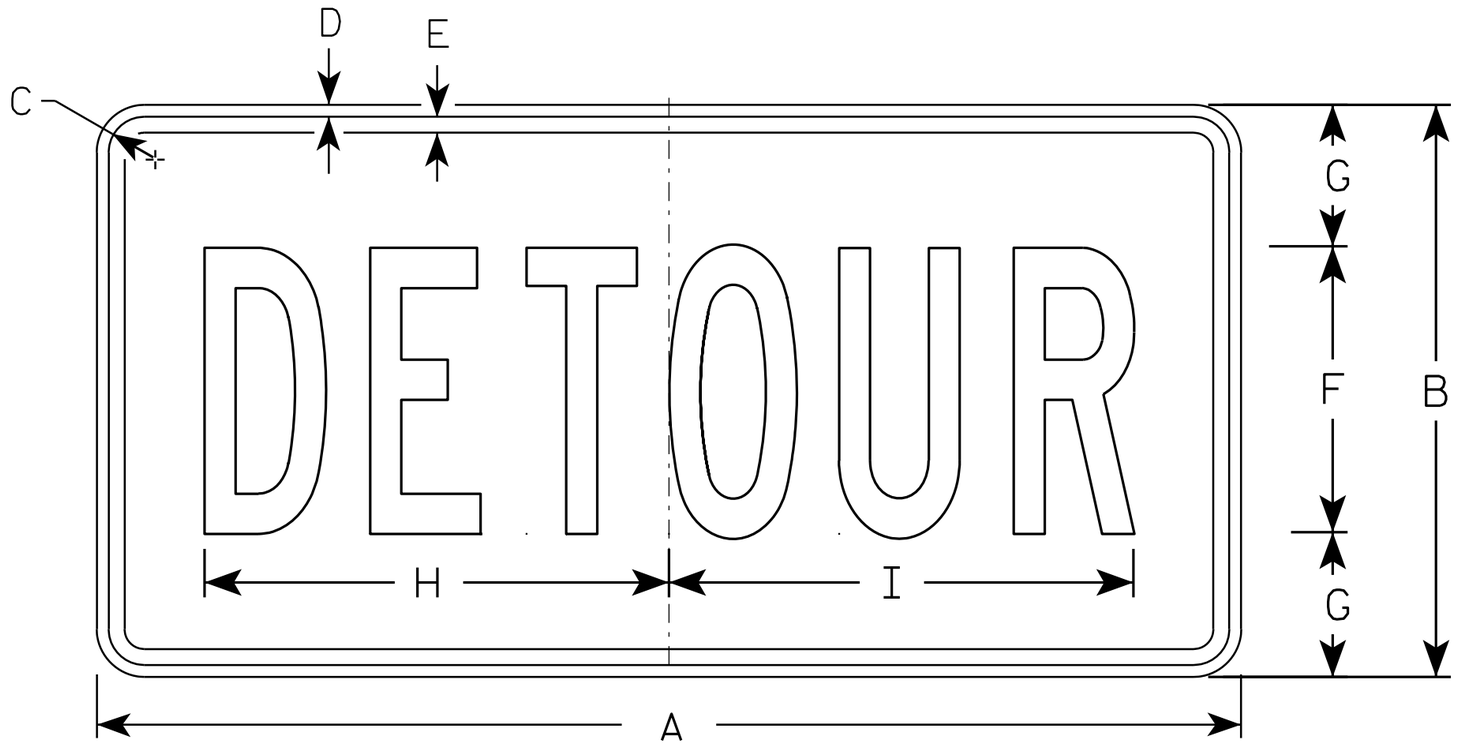
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE 203 M4-5.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M45.DGN PLOT DATE : 01-DEC-2015 17:55 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 5.351066:1.000000



M4-8

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - B
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	3	10	10 1/4																		2.0
3	36	18	1 1/8	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
4																											
5																											

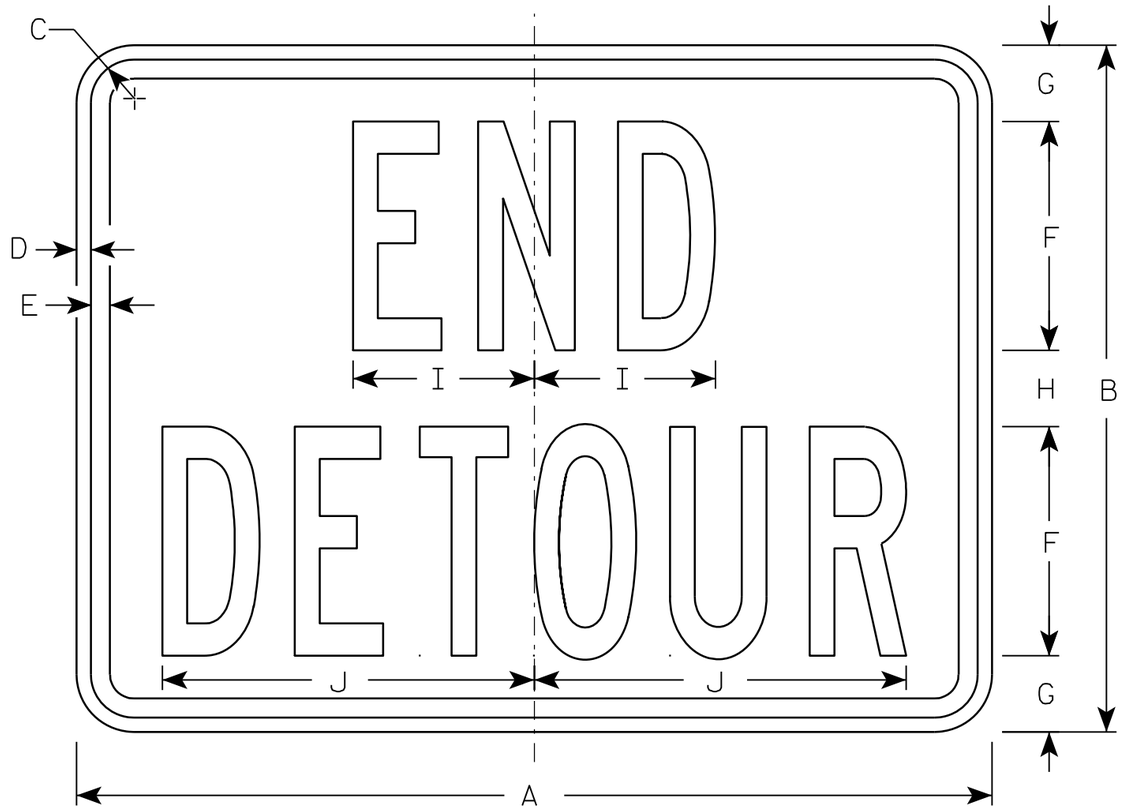
STANDARD SIGN
M4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/10/10 PLATE NO. M4-8.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 204	E



M4-8A

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - B
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	18	1 1/8	3/8	1/2	6	2	2	4 3/4	9 3/4																	3.0
3	30	24	1 1/8	3/8	1/2	8	2 1/2	3	6 3/4	13																	5.0
4																											
5																											

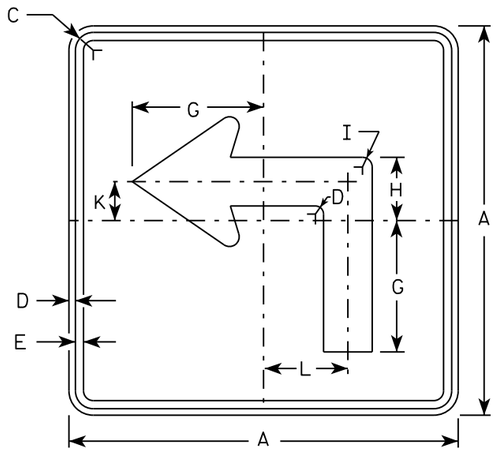
STANDARD SIGN
M4-8A

WISCONSIN DEPT OF TRANSPORTATION

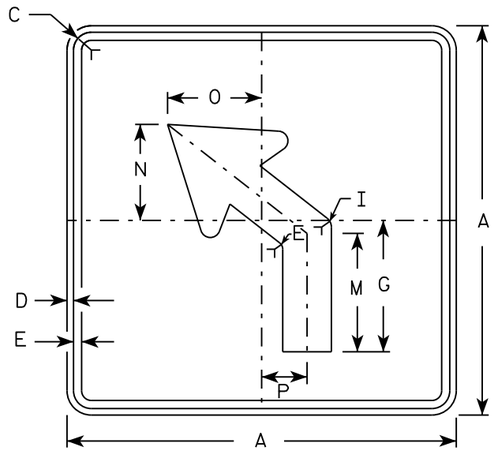
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/9/11 PLATE NO. M4-8A.2

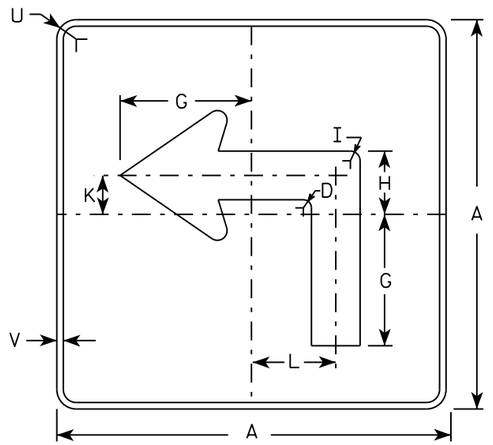
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 205	E



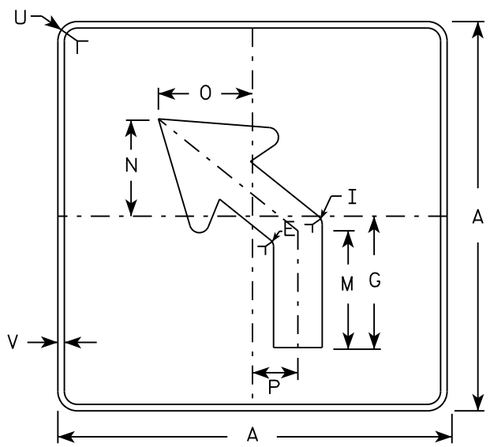
M5-1L
MM5-1L
MO5-1L
MP5-1L



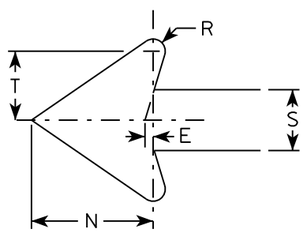
M5-2L
MM5-2L
MO5-2L
MP5-2L



MB5-1L
MK5-1L
MN5-1L
MR5-1L



MB5-2L
MK5-2L
MN5-2L
MR5-2L



NOTES

1. Signs are Type II - Type H reflective except as shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M5-1 and M5-2 Background - White
   Message - Black
   MB5-1 and MB5-2 Background - Blue
   Message - White
   MK5-1 and MK5-2 Background - Green
   Message - White
   MM5-1 and MM5-2 Background - White
   Message - Green
   MN5-1 and MN5-2 Background - Brown
   Message - White
   MO5-1 and MO5-2 Background - Orange - Type F Reflective
   Message - Black
   MP5-1 and MP5-2 Background - White - Type H Reflective
   Message - Blue
   MR5-1 and MR5-2 Background - Brown
   Message - Yellow
5. M5-1R same as M5-1L except arrow points right.
6. M5-2R same as M5-2L except arrow tilts right.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3	1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25

STANDARD SIGN
M5-1 & M5-2

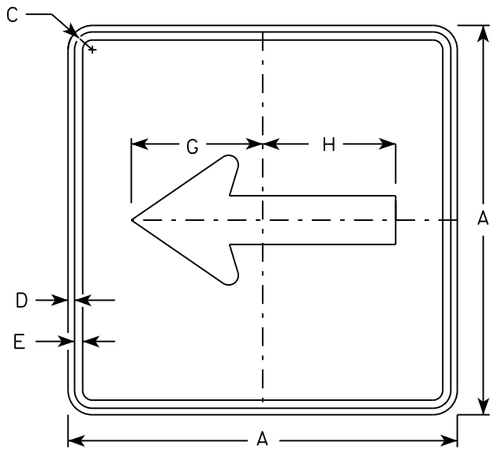
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

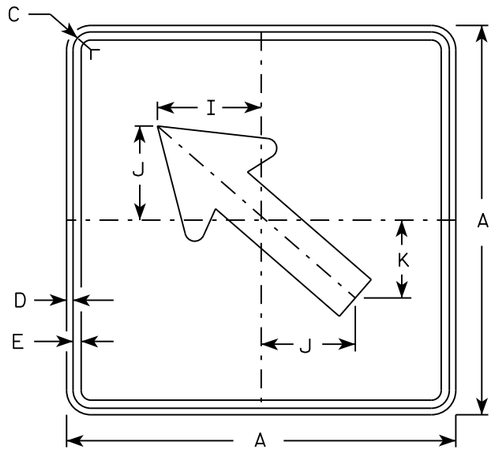
DATE 10/15/15 PLATE NO. M5-1.13

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M51.DGN PLOT DATE : 01-DEC-2015 18:07 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



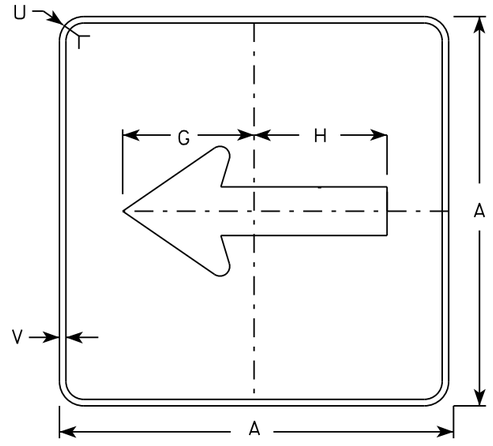
M6-1
MM6-1
MO6-1
MP6-1



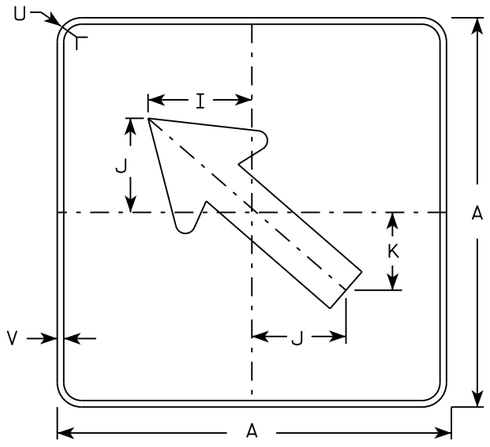
M6-2
MM6-2
MO6-2
MP6-2

NOTES

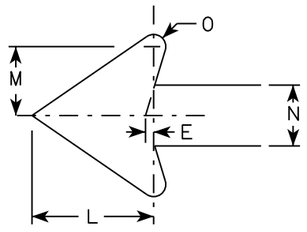
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - White
   Message - Black
   MB6-1 and MB6-2 Background - Blue
   Message - White
   MK6-1 and MK6-2 Background - Green
   Message - White
   MM6-1 and MM6-2 Background - White
   Message - Green
   MN6-1 and MN6-2 Background - Brown
   Message - White
   MO6-1 and MO6-2 Background - Orange - Type F Reflective
   Message - Black
   MP6-1 and MP6-2 Background - White
   Message - Blue
   MR6-1 and MR6-2 Background - Brown
   Message - Yellow



MB6-1
MK6-1
MN6-1
MR6-1



MB6-2
MK6-2
MN6-2
MR6-2



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2						1 1/2	1/2						3.06
3	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25
4	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25
5	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25

STANDARD SIGN
M6-1 & M6-2
SERIES

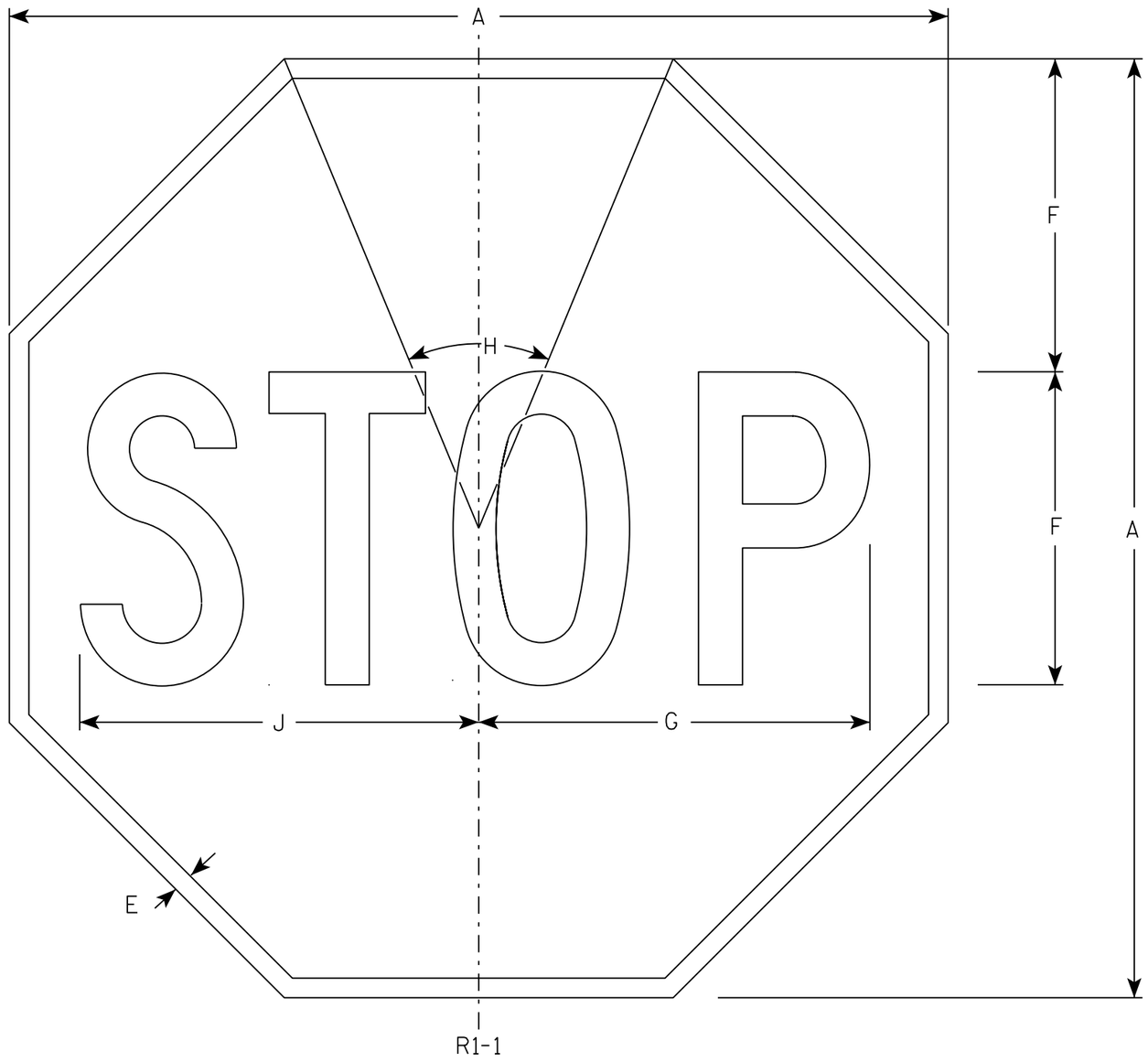
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE 207 M6-1.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M61.DGN PLOT DATE : 01-DEC-2015 17:57 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - C

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2S	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2M	36				3/4	12	15	45°		15 3/8																	7.46
3	36				3/4	12	15	45°		15 3/8																	7.46
4	48				1	16	20	45°		20 1/2																	13.25
5	48				1	16	20	45°		20 1/2																	13.25
6	18				3/8	6	7 3/4	45°		7 3/4																	1.86
7	12				1/4	4	5	45°		5 1/8																	0.78

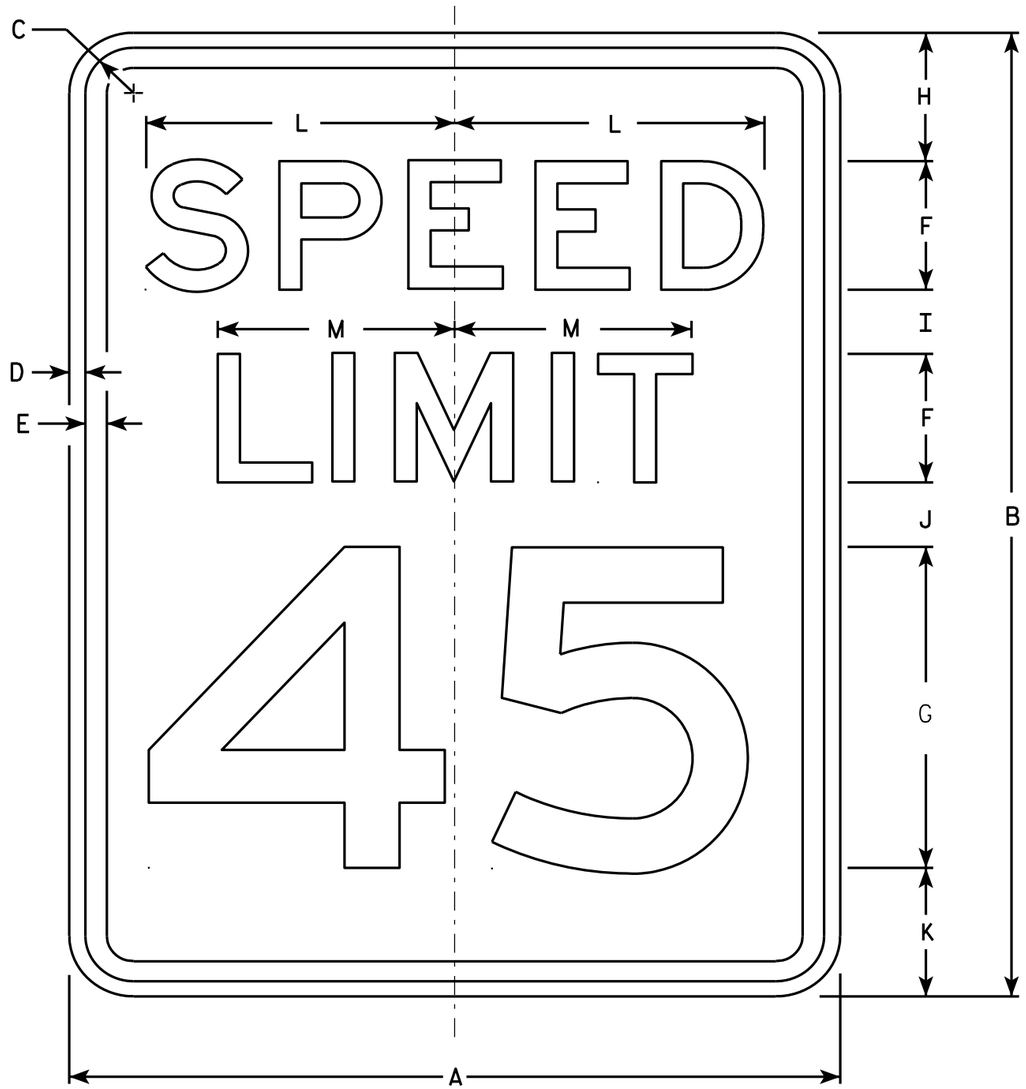
STANDARD SIGN
R1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/12/15 PLATE NO. R1-1.13

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 208	E



R2-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0
2S	24	30	1 1/8	3/8	1/2	4	10	3	2 1/4	3 3/8	3 3/8	9 5/8	7 3/8														5.0
2M	30	36	1 3/8	1/2	5/8	5	12	5	2 1/2	2 1/2	4	12	9 1/4														7.5
3	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
4	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
5	48	60	2 1/4	3/4	1	8	20	6	4 1/2	6 3/4	6 3/4	19 1/4	14 5/8														20.0

STANDARD SIGN
R2-1

WISCONSIN DEPT OF TRANSPORTATION

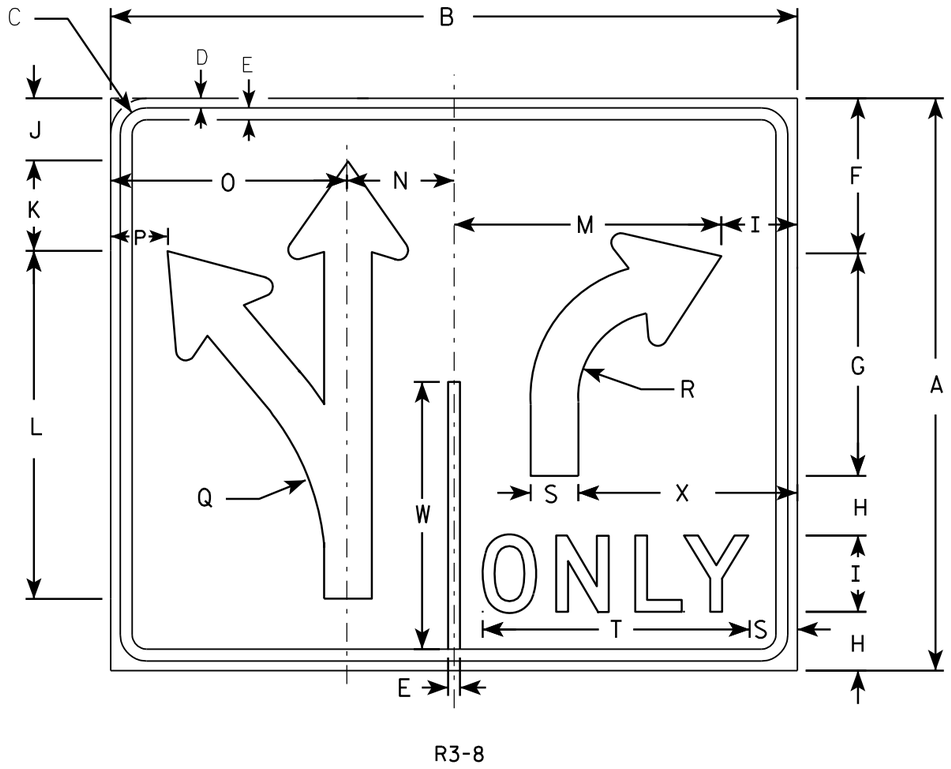
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/26/10 PLATE NO. R2-1.13

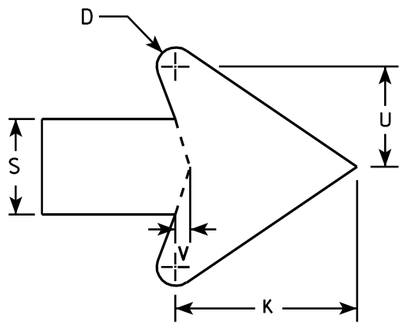
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 209 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R21.DGN PLOT DATE : 28-MAY-2010 08:32 PLOT BY : ditjph PLOT NAME : PLOT SCALE : 4.717577:1.000000

WISDOT/CADDS SHEET 42



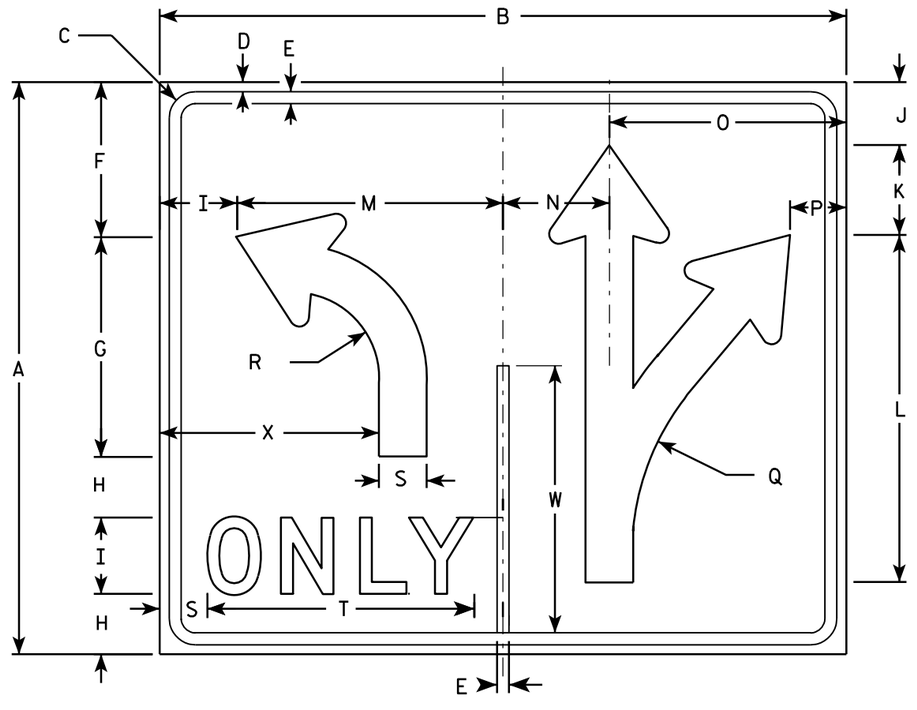
R3-8



ARROW DETAIL

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - WHITE
   Message - BLACK
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



R3-8A

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	36	1 3/8	1/2	5/8	8 1/8	11 5/8	3 1/8	4	3 1/4	4 3/4	18 1/4	14	5 5/8	12 3/8	3	13 1/4	4 1/2	2 1/2	14	2 5/8	3/8	14	11 1/2			7.5
2M	30	36	1 3/8	1/2	5/8	8 1/8	11 5/8	3 1/8	4	3 1/4	4 3/4	18 1/4	14	5 5/8	12 3/8	3	13 1/4	4 1/2	2 1/2	14	2 5/8	3/8	14	11 1/2			7.5
3																											
4	48	54	2 1/4	3/4	1	13 1/4	18 1/2	5 1/8	6	5 1/4	7 1/8	29 1/8	21	8 3/8	18 5/8	4 3/8	21 7/8	7 1/4	3 3/4	20 5/8	4	5/8	22 3/8	17 1/4			18.0
5	48	54	2 1/4	3/4	1	13 1/4	18 1/2	5 1/8	6	5 1/4	7 1/8	29 1/8	21	8 3/8	18 5/8	4 3/8	21 7/8	7 1/4	3 3/4	20 5/8	4	5/8	22 3/8	17 1/4			18.0

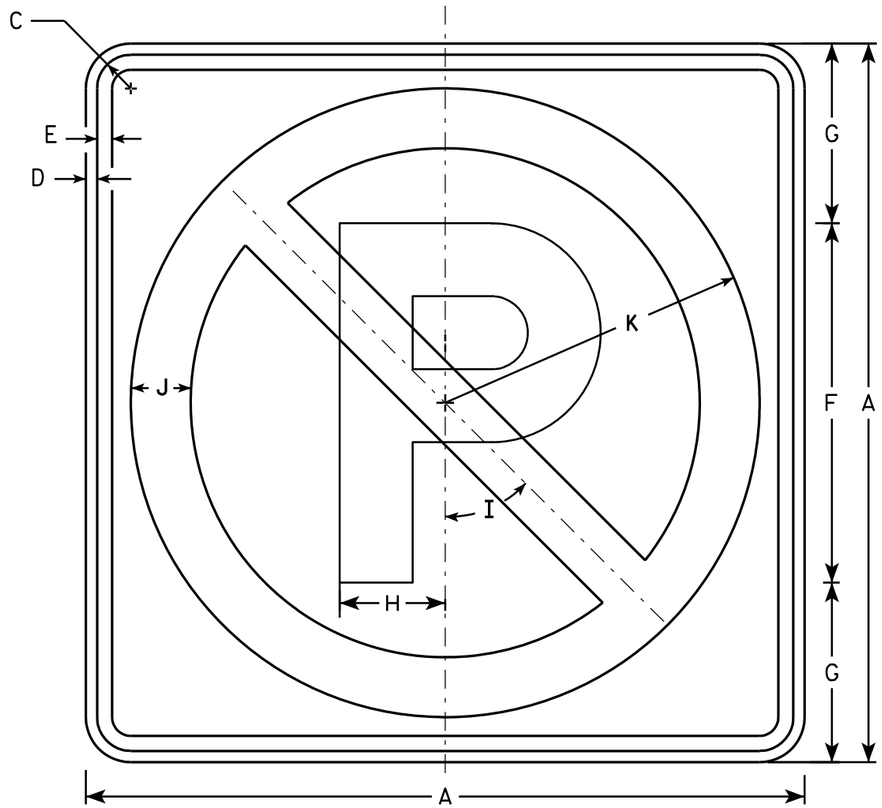
STANDARD SIGN
R3-8 & R3-8A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/2011 PLATE NO. R3-8.5

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 210	E



R3-8A

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Border & Letter P are non reflective black, the circle with diagonal bar is reflective red.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24		1 1/8	3/8	1/2	12	6	3 1/2	45°	2	10 1/2																4.0
2M	24		1 1/8	3/8	1/2	12	6	3 1/2	45°	2	10 1/2																4.0
3																											
4																											
5																											

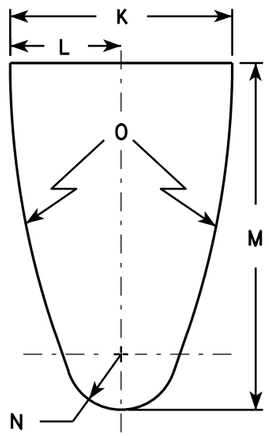
STANDARD SIGN
R3-8A

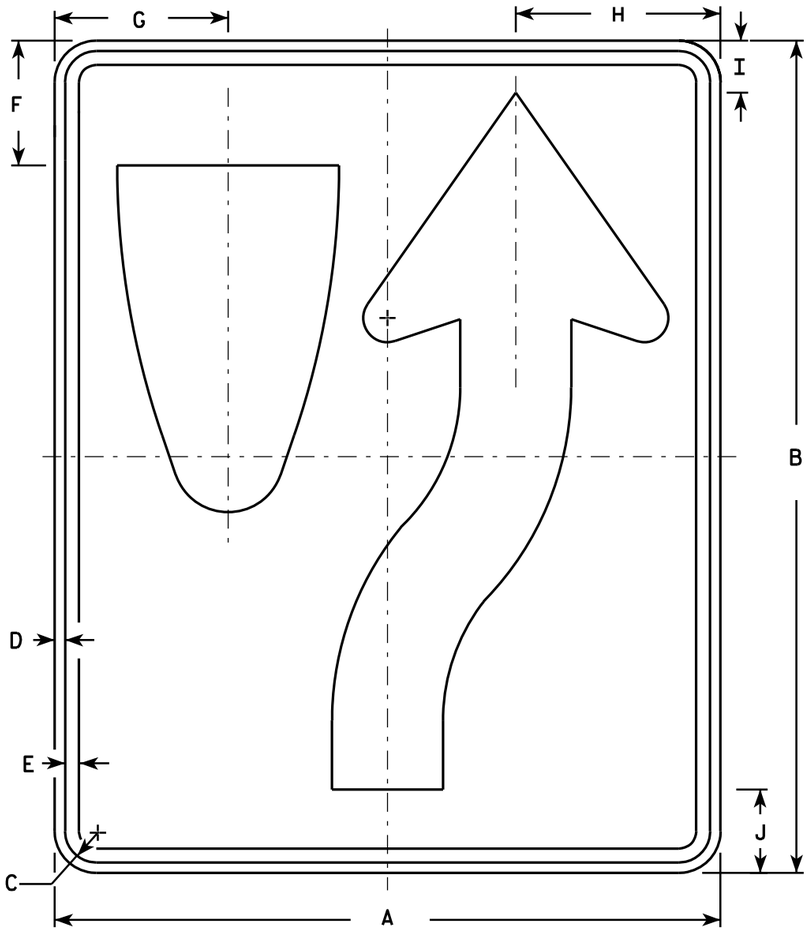
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/01/12 PLATE NO. R3-8A.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 211 | E

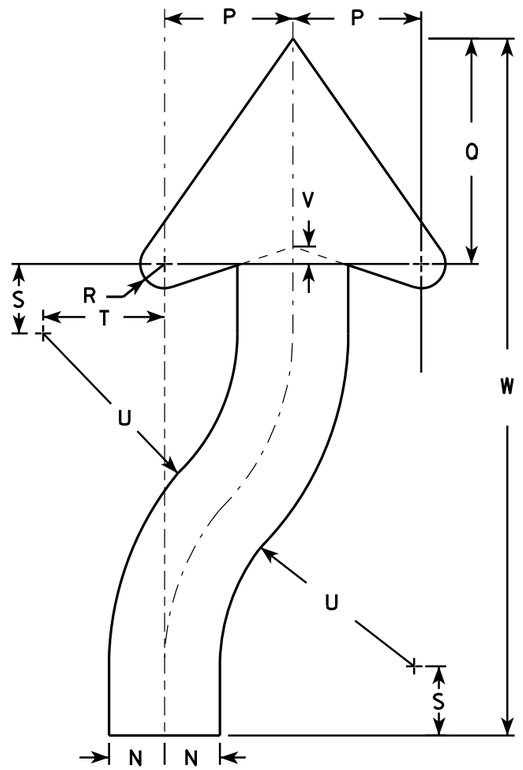




R4-7

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition. material is plywood but borders shall be rounded
2. Color:
   Background - White
   Message - Black
3. Corners may be square or rounded when base as shown. When base material is metal, the corners and borders shall be rounded.
4. R4-8 is the same as R4-7 except Legend is reversed.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3 3/8	4 3/4	5 1/2	1 3/8	2 1/4	6	3	9 3/8	1 1/2	22 1/2	3 1/2	6 1/8	5/8	1 7/8	3 1/4	6 3/4	1/2	20 3/8				3.0
2S	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
2M	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
3	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
4	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
5	48	60	2 1/4	3/4	1	9	12 1/2	14 3/4	3 3/4	6	16	8	25	4	60	9 1/4	16 1/4	1 5/8	5	8 3/4	18	1 1/4	50 1/4				20.0

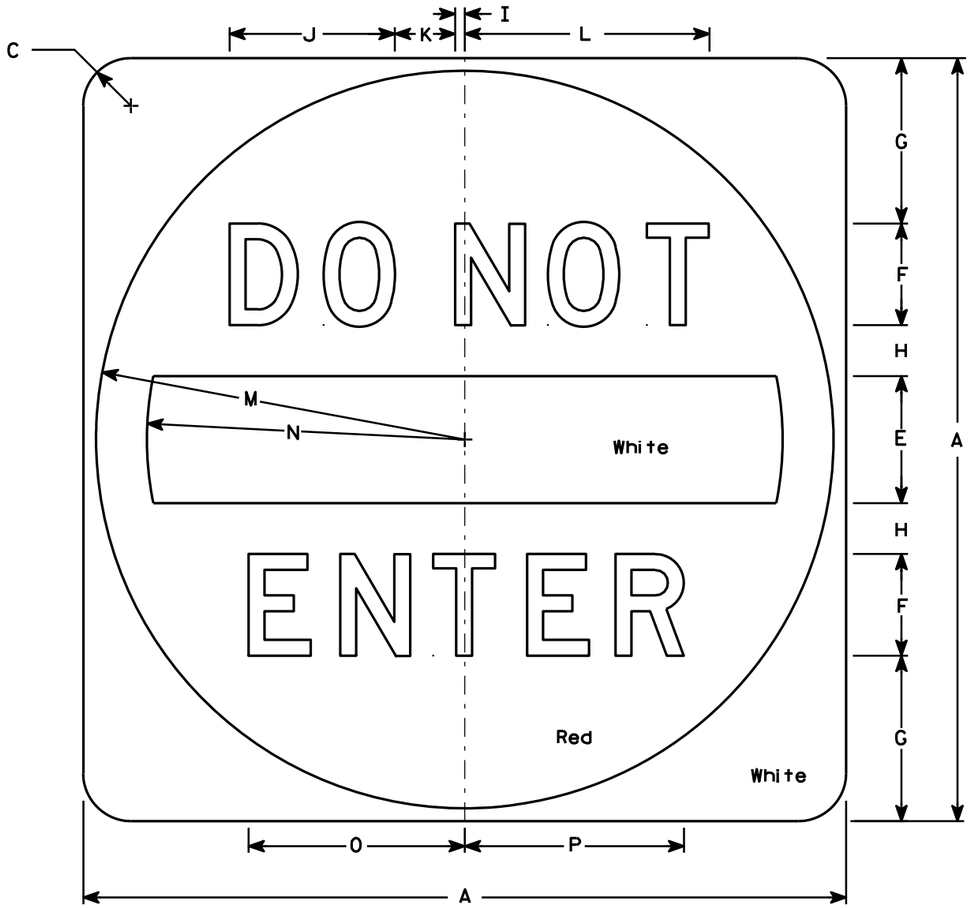
STANDARD SIGN
R4-7 & R4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R4-7.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 212	E



R5-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - See detail
   Message - White - Type H Reflective
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but when base material is metal, the cornors shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30		1 7/8		5	4	6 1/2	2	3/8	6 1/2	2 3/8	9 5/8	14 1/2	12 1/2	8 1/2	8 5/8											6.26
2M	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
3	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
4	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
5	48		3		8	6	11	3	5/8	9 3/4	3 5/8	14 1/2	23 1/2	20	12 3/4	12 7/8											16.0

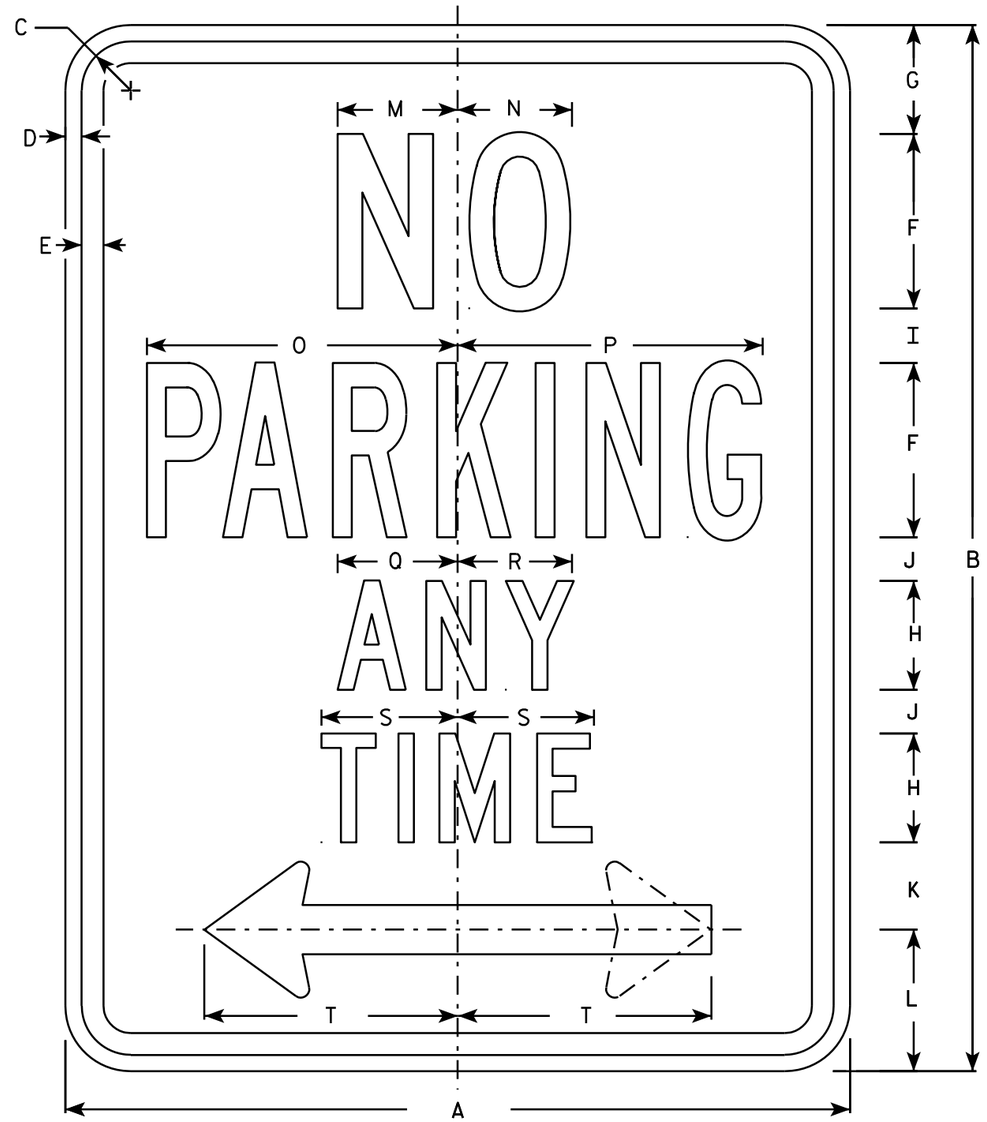
STANDARD SIGN
R5-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/17/10 PLATE NO. R5-1.15

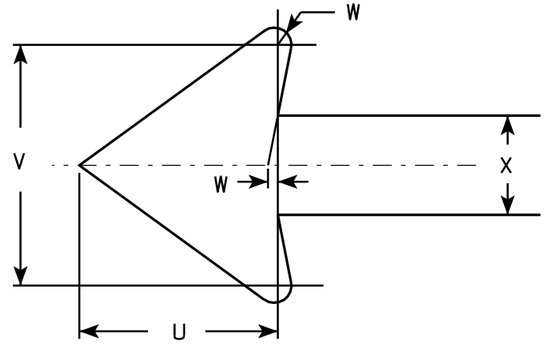
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 213 | E



R7-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Red
3. Message Series - See Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1, 3 and 4 are series C, line 2 is series B.
6. R7-1D (double arrow)
   R7-1L (left arrow)
   R7-1R (right arrow)



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	12	18	1 1/8	3/8	3/8	3	1 7/8	2	7/8	5/8	1 1/2	2 1/2	2	2	4 7/8	4 7/8	2 1/4	2 1/8	2 1/2	3 7/8	1 1/2	1 3/4	1/8	3/4			1.5
2S	18	24	1 1/8	3/8	1/2	4	2 1/2	2 1/2	1 1/4	1	2	3 1/4	2 3/4	2 5/8	7 1/8	7	2 3/4	2 5/8	3 1/8	5 7/8	2 1/4	2 5/8	1/4	1 1/8			3.0
2M	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
3	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
4																											
5																											

STANDARD SIGN
R7-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2011 PLATE NO. R7-1.9

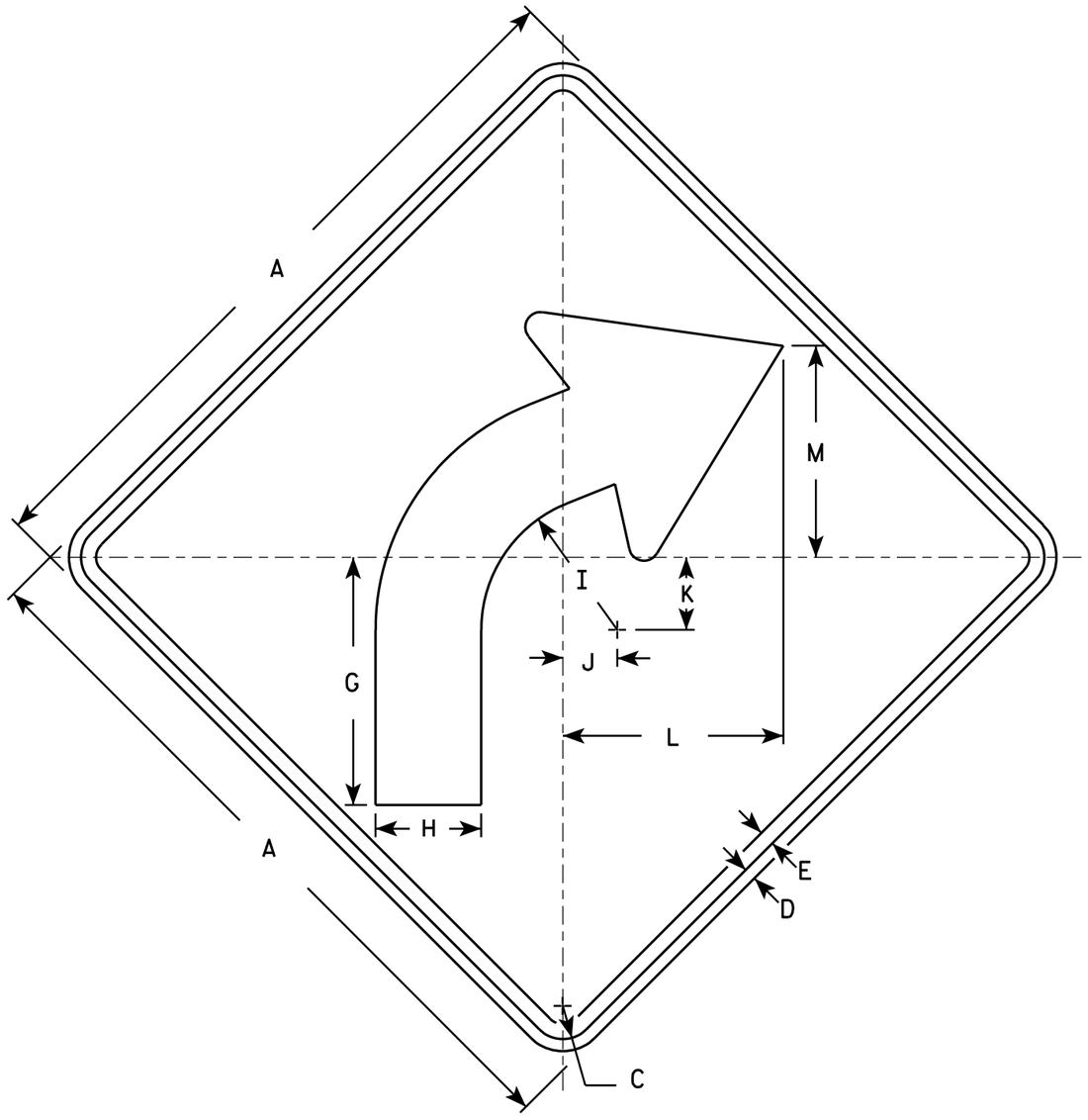
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 214	E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R71.DGN PLOT DATE : 31-MAR-2011 09:20 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 3.476110:1.000000

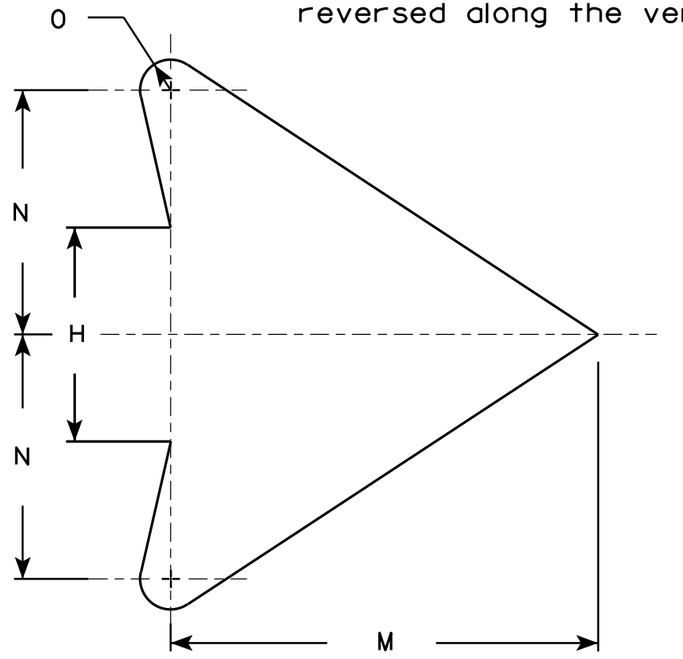
WISDOT/CADDS SHEET 42

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W1-2L is the same as W1-2R except the arrow is reversed along the vertical centerline.



W1-2R



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2		8 1/4	3 1/2	4 1/2	1 3/4	2 3/8	7 1/4	7	4	1/2												4.0
2S	30		1 3/8	1/2	5/8		10 1/4	4 3/8	5 5/8	2 1/4	3	9 1/8	8 3/4	5	5/8												6.25
2M	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
3	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
4	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
5	48		2 1/4	3/4	1		16 1/2	7	9	3 1/2	4 5/8	14 1/2	14	8	1												16.0

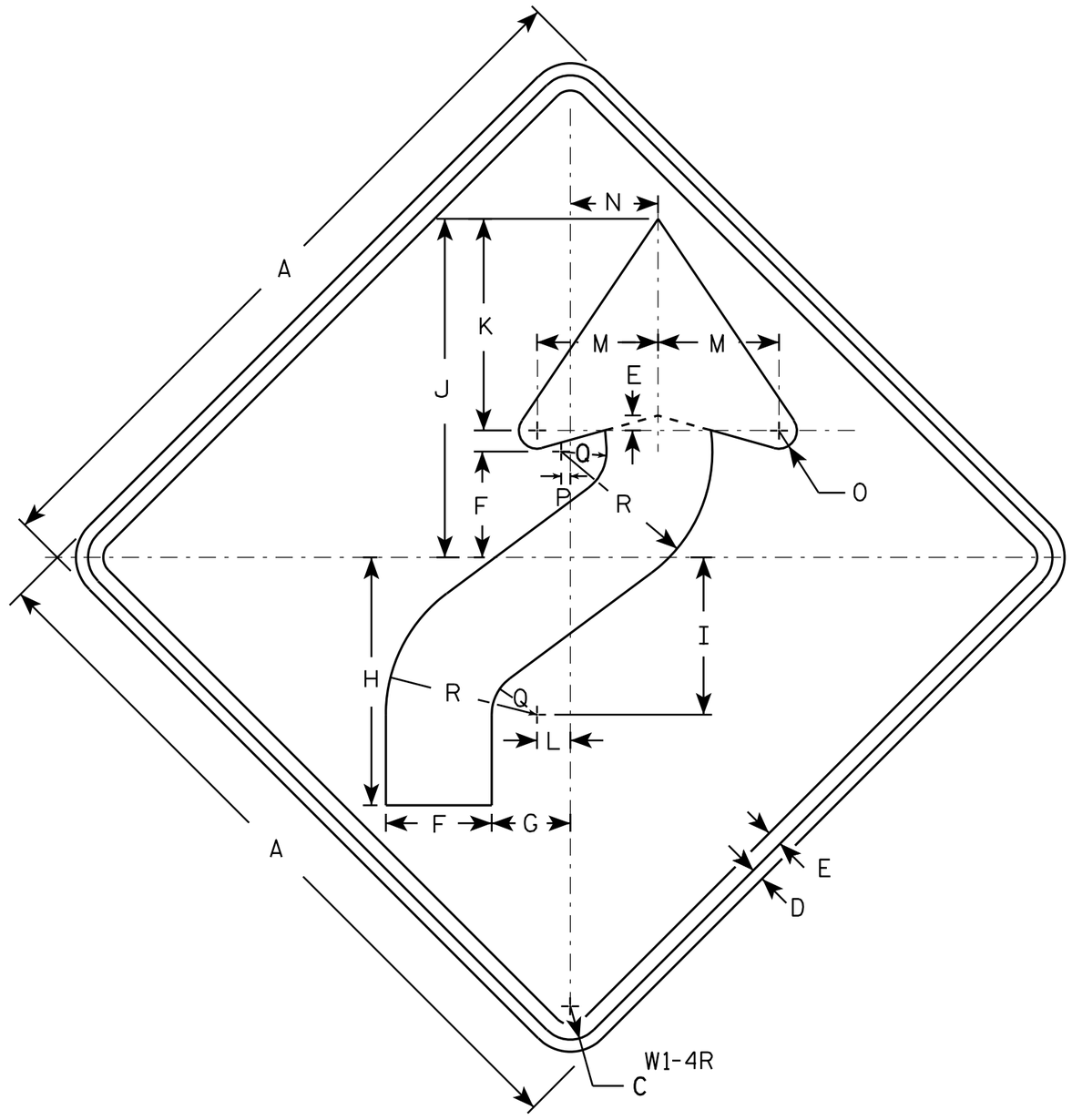
STANDARD SIGN
W1-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/15/12 PLATE NO. W1-2.10

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 215	E



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W1-4L is the same as W1-4R except the arrow is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	3 1/2	2 5/8	8 1/4	5 1/4	11 1/4	7	1 1/8	4	3	5/8	1/4	1 1/2	5									4.0
2S	30		1 3/8	1/2	5/8	4 3/8	3 1/4	10 1/4	6 1/2	14	8 3/4	1 3/8	5	3 5/8	3/4	3/8	1 7/8	6 1/4									6.25
2M	36		1 5/8	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
3	36		1 5/8	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
4	36		1 5/8	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
5	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0

STANDARD SIGN

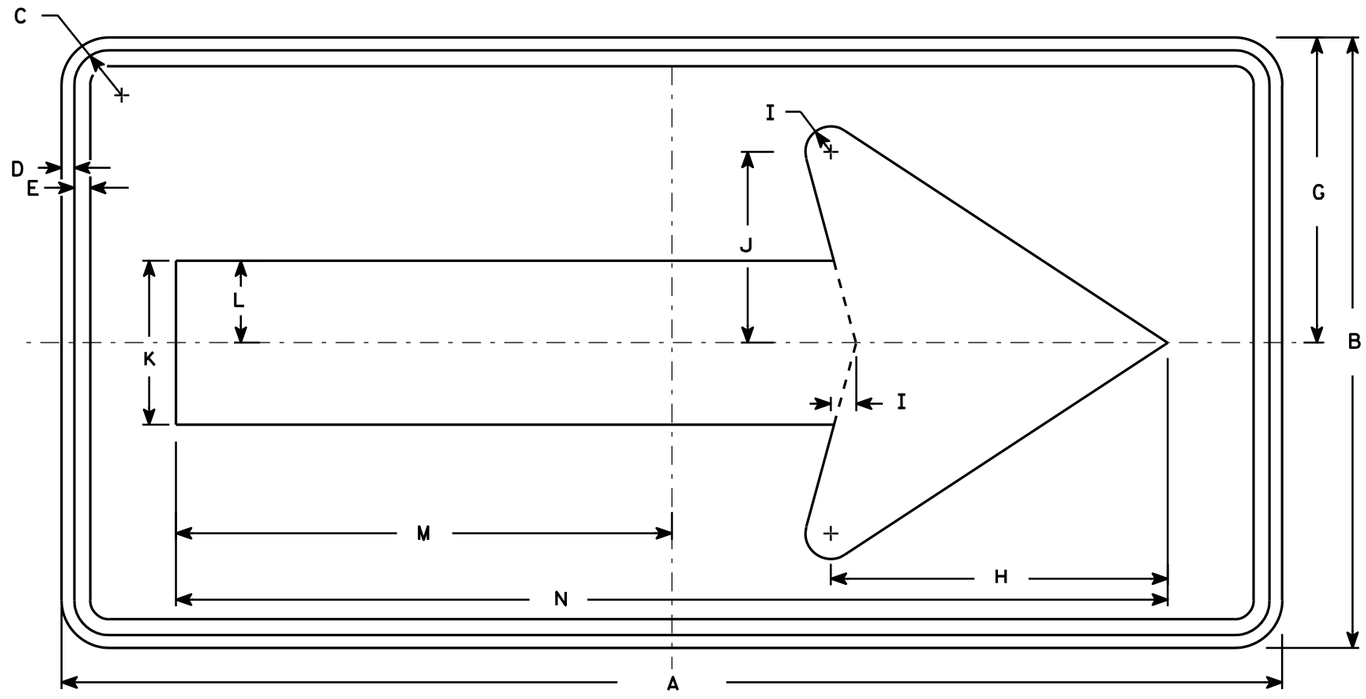
W1-4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 5/17/12 PLATE NO. W1-4.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 216 | E



W1-6

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	18	1 1/8	3/8	3/8		9	10	3/4	5 5/8	4 3/4	2 3/8	14 5/8	29 1/4													4.5
2S	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
2M	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
3	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
4	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
5	96	48	2 1/4	3/4	1		24	26 1/2	2	15	13	6 1/2	39	78													32.0

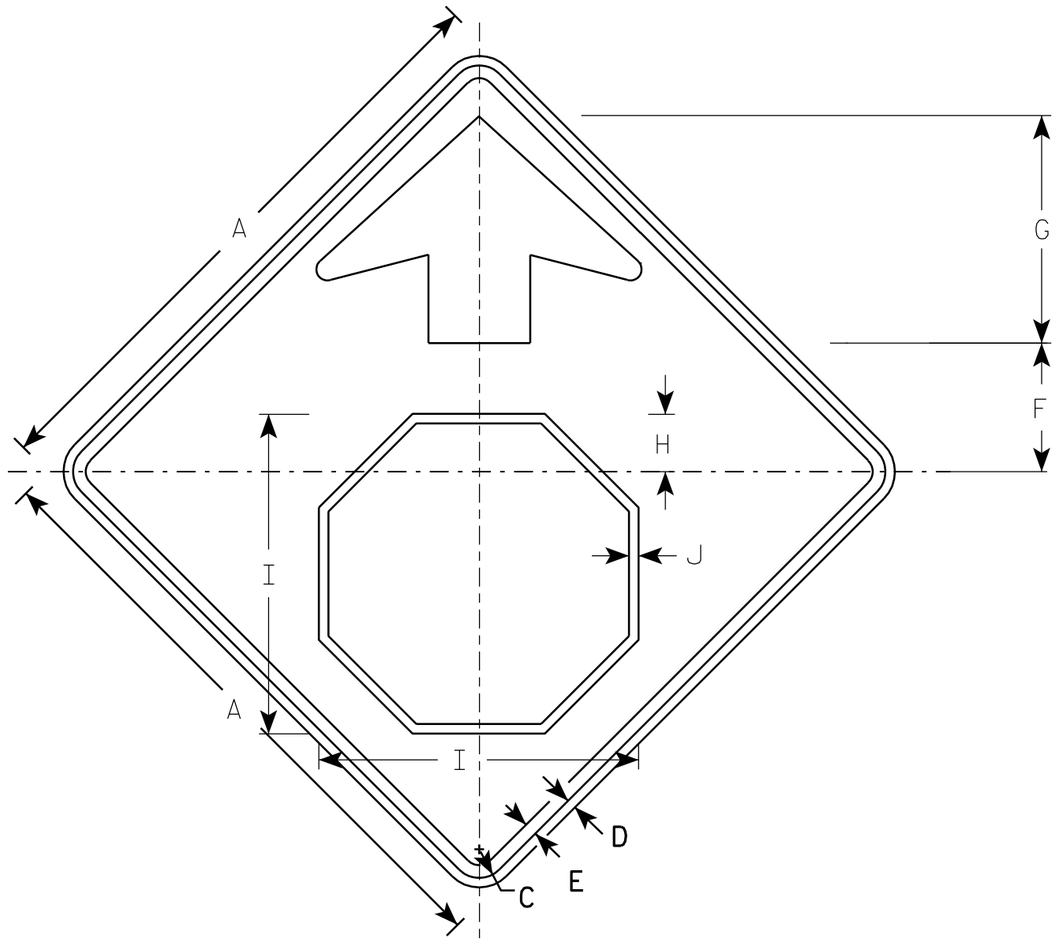
STANDARD SIGN
W1-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W1-6.8

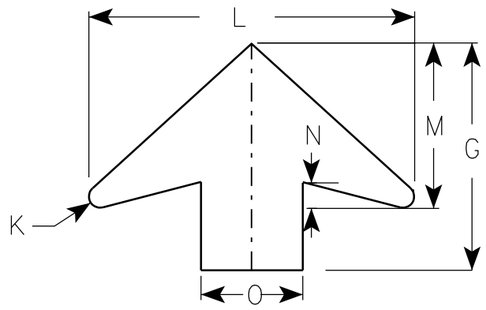
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 217



W3-1

NOTES

1. All Signs Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - YELLOW
   Arrow & Border - BLACK
   Stop Symbol - WHITE BORDER ON RED BACKGROUND



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	6 1/4	11 1/4	2 7/8	15 3/4	1/2	1/2	16	8	1 1/4	5												6.25
2S	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
2M	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
3	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
4	48		2 1/4	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0
5	48		2 1/4	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0

STANDARD SIGN
W3-1

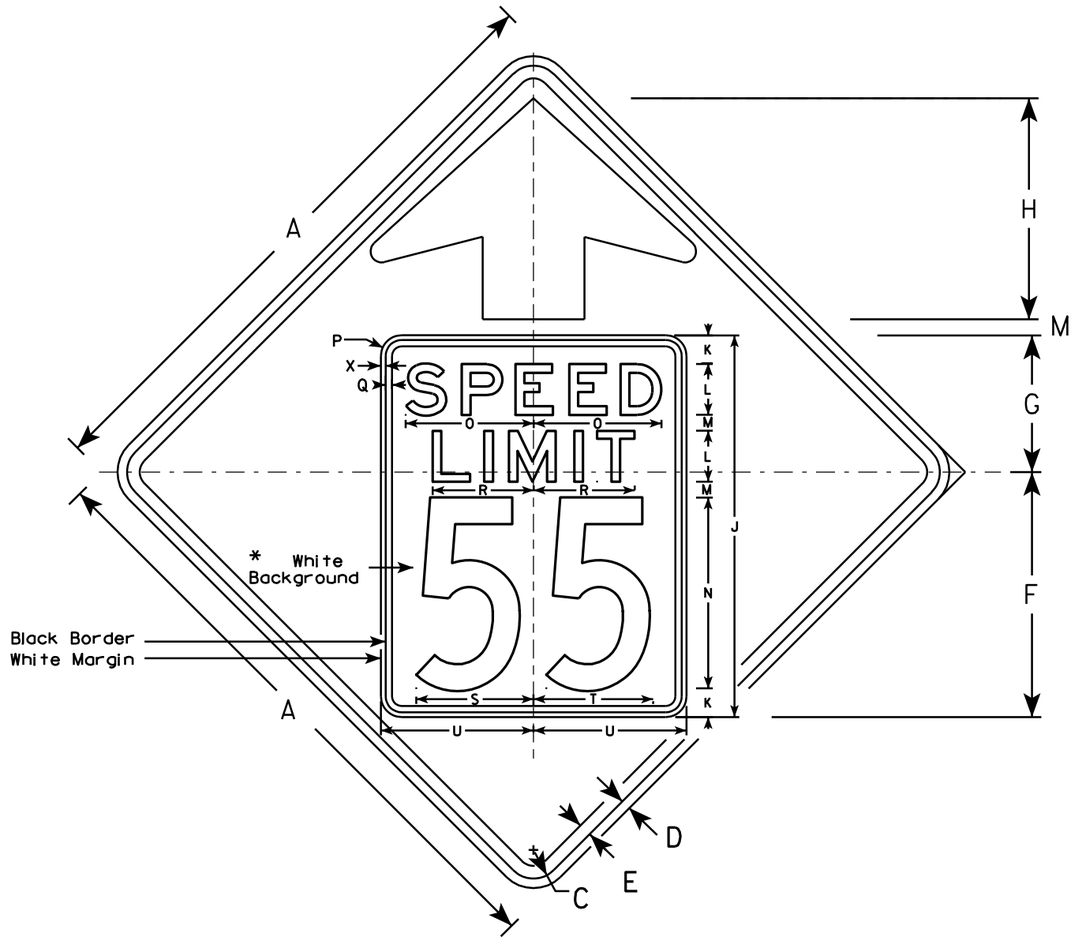
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W3-1.12

PROJECT NO:

SHEET NO: 218 E

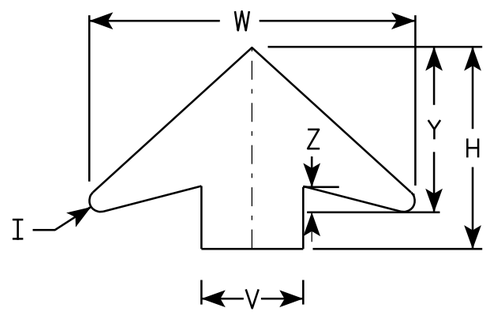


W3-5

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color: *
   Background - YELLOW*
   Message - BLACK
3. Message Series - C for numbers Series E for wording
4. Substitute appropriate numerals and optically adjust spacing to achieve proper balance

*Speed Limit Sign shall have a White Background



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
2M	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
3	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
4	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0
5	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0

STANDARD SIGN
W3-5

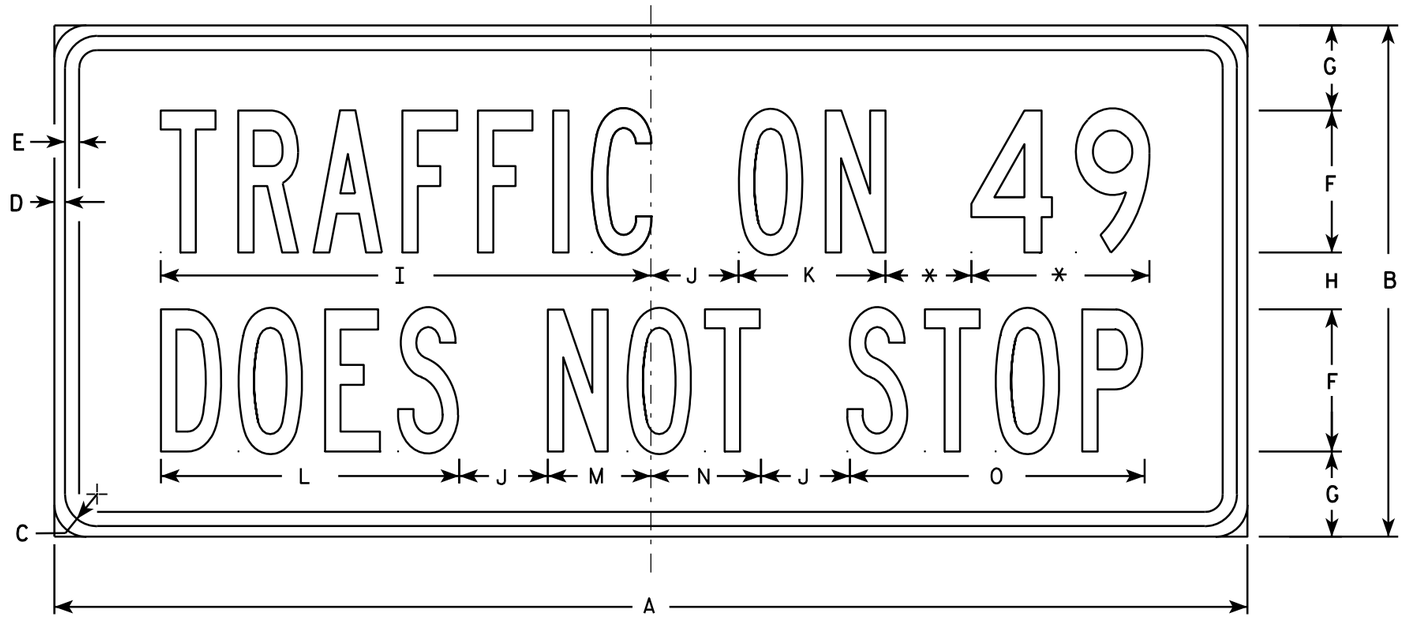
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/29/12 PLATE NO. W3-5.5

PROJECT NO:

SHEET NO: 219 E



W4-4C

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - B (See note 5)
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Highway Number usually Series D. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

* VARIES

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	12	1 1/8	3/8	3/8	3	2 1/4	1 1/2	10 3/8	1 1/2	3 1/8	6 1/4	2 1/4	2 1/4	6 1/4												2.0
2M	24	12	1 1/8	3/8	3/8	3	2 1/4	1 1/2	10 3/8	1 1/2	3 1/8	6 1/4	2 1/4	2 1/4	6 1/4												2.0
3	36	15	1 1/8	3/8	1/2	4	2 5/8	1 3/4	13 7/8	2 3/8	4 1/4	8 3/8	3 1/8	3 1/8	8 3/8												3.75
4	42	18	1 1/8	3/8	1/2	5	3	2	17 1/4	3 1/8	5 1/8	10 1/2	3 7/8	3 7/8	10 3/8												5.25
5																											

STANDARD SIGN
W4-4C

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 03/12/13 PLATE NO. W4-4.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 220	E

W4-4P

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - B
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	12	1 1/8	3/8	3/8	3	2 1/4	1 1/2	8	1 1/2	3/8	10	6 1/4	2 1/4	2 1/4	6 1/4											2.0
2M	24	12	1 1/8	3/8	3/8	3	2 1/4	1 1/2	8	1 1/2	3/8	10	6 1/4	2 1/4	2 1/4	6 1/4											2.0
3	36	15	1 1/8	3/8	1/2	4	2 5/8	1 3/4	10 3/4	2 3/8	3/8	13 1/2	8 3/8	3	3 1/8	8 3/8											3.75
4	42	18	1 1/8	3/8	1/2	5	3	2	13 3/8	3 1/8	3/8	16 7/8	10 1/2	3 5/8	3 7/8	10 3/8											5.25
5																											

STANDARD SIGN
W4-4P

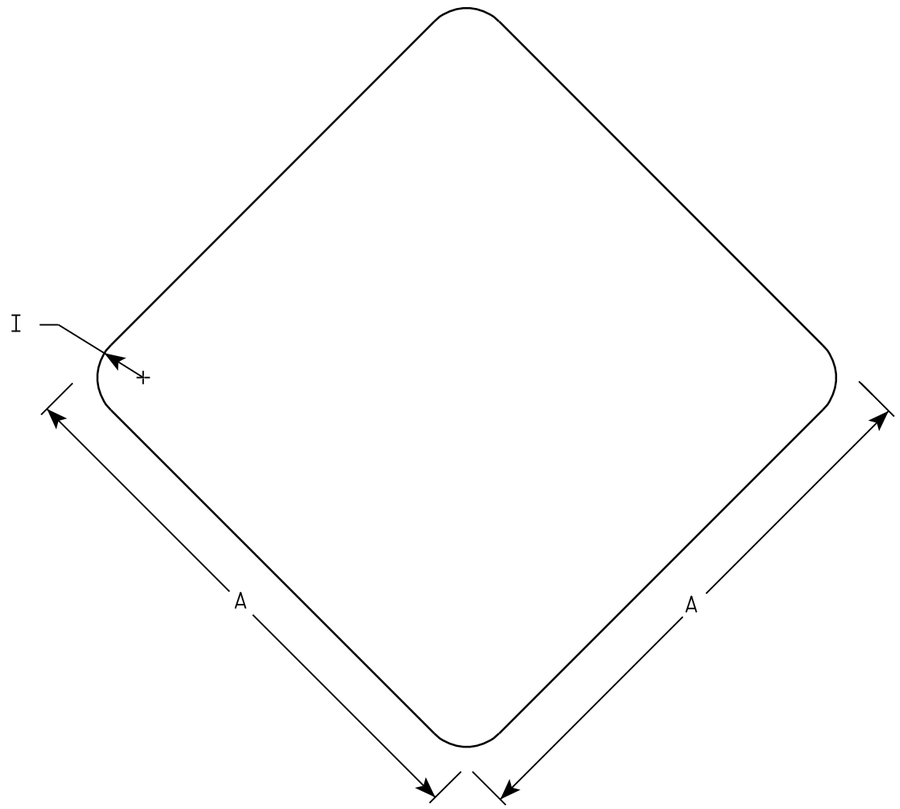
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 03/12/13 PLATE NO. W4-4P.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 221 | E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W44P.DGN PLOT DATE : 12-MAR-2013 11:42 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 5.458200:1.000000



W5-54

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
3. Corners may be square or rounded when base material is plywood. When base material is metal the corners shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	12								1																		1.0
2S	18								1 ½																		2.25
2M	18								1 ½																		2.25
3																											
4																											
5																											

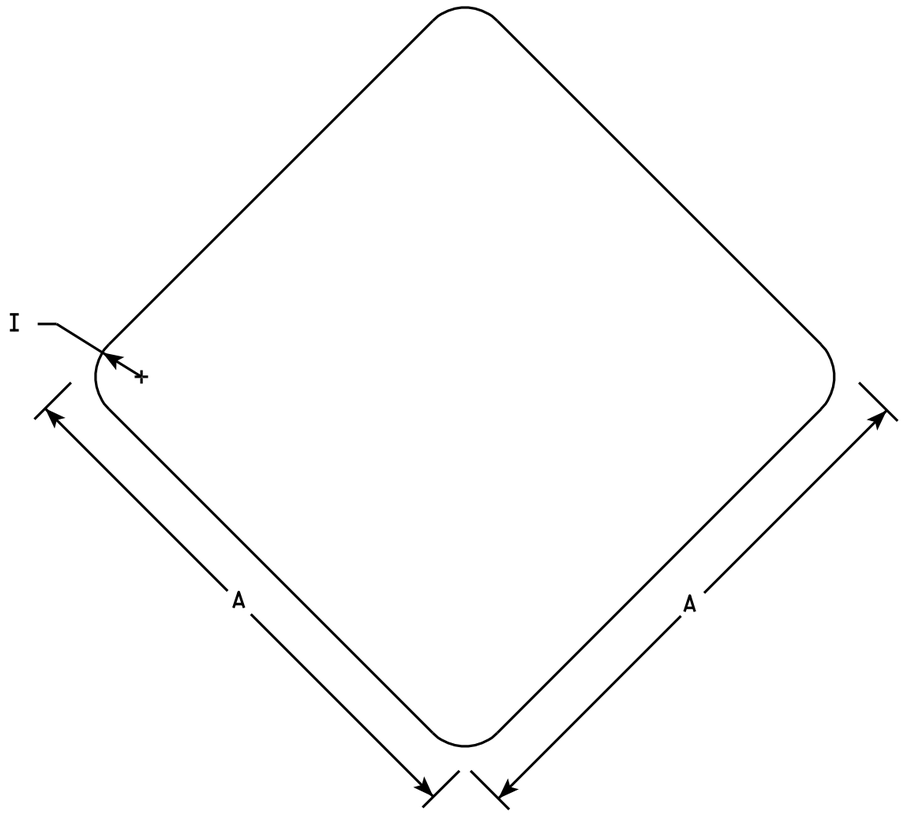
STANDARD SIGN
W5-54

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/3/10 PLATE NO. W5-54.8

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 222 | E



W5-56

NOTES

1. Sign is Type II - Type SH Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
3. Corners may be square or rounded when base material is plywood. When base material is metal the corners shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	12								1																		1.0
2S	18								1 ½																		2.25
2M	18								1 ½																		2.25
3																											
4																											
5																											

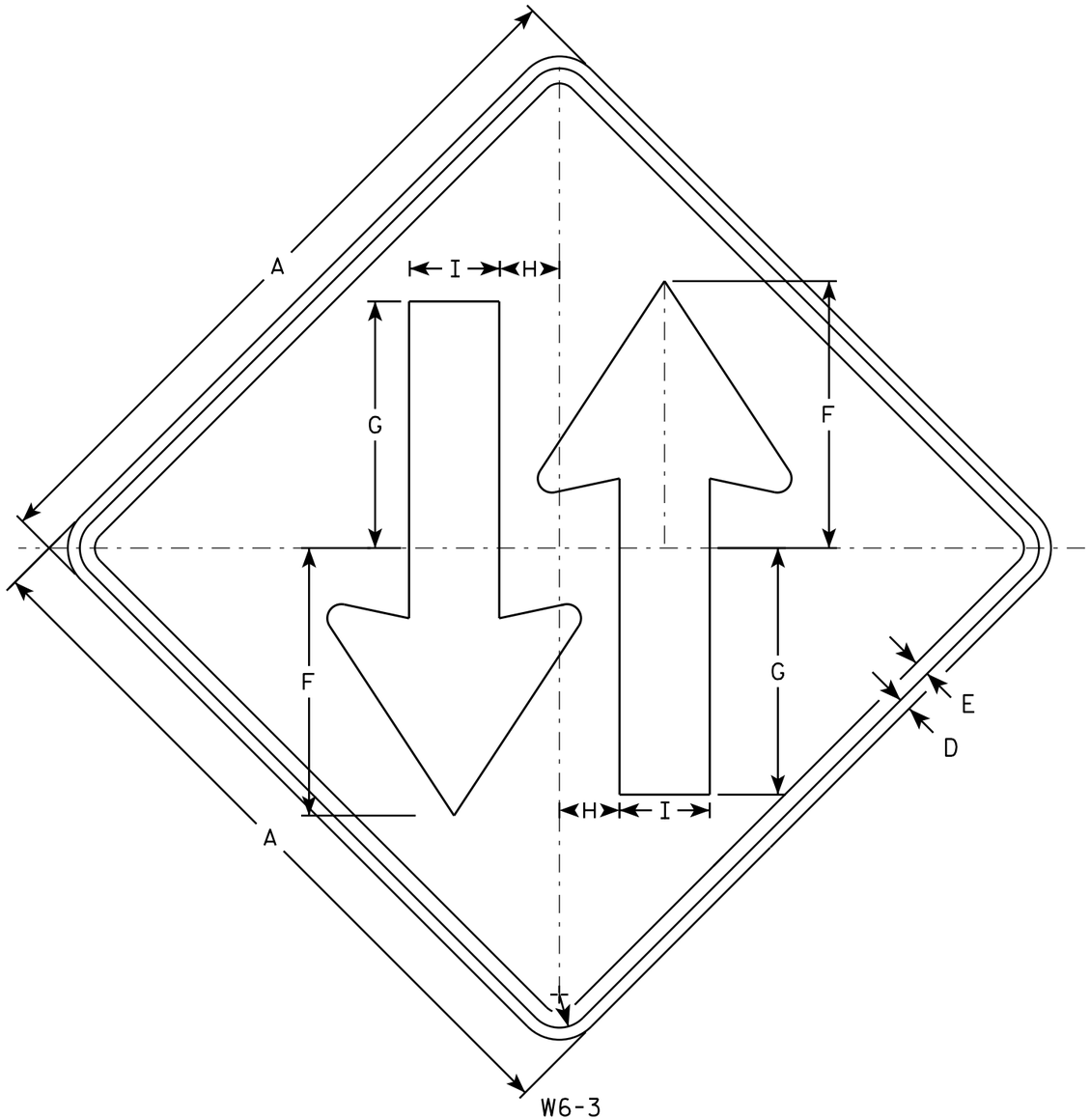
STANDARD SIGN
W5-56

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/2/10 PLATE NO. W5-56.6

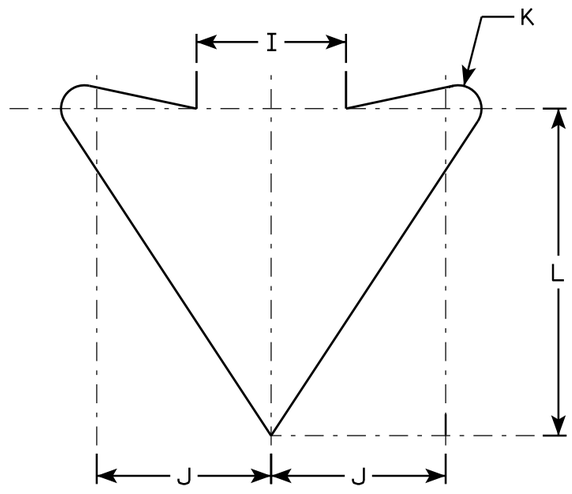
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 223	E



W6-3

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	11 1/8	10 1/4	2 1/2	3 3/4	4 3/8	5/8	8 1/4															6.25
2S	36		1 5/8	5/8	3/4	13 3/8	12 1/4	3	4 1/2	5 1/4	3/4	9 7/8															9.0
2M	36		1 5/8	5/8	3/4	13 3/8	12 1/4	3	4 1/2	5 1/4	3/4	9 7/8															9.0
3																											
4	48		2 1/4	3/4	1	17 3/4	16 3/8	4	6	7	1	13 1/8															16.0
5	48		2 1/4	3/4	1	17 3/4	16 3/8	4	6	7	1	13 1/8															16.0

STANDARD SIGN
W6-3

WISCONSIN DEPT OF TRANSPORTATION

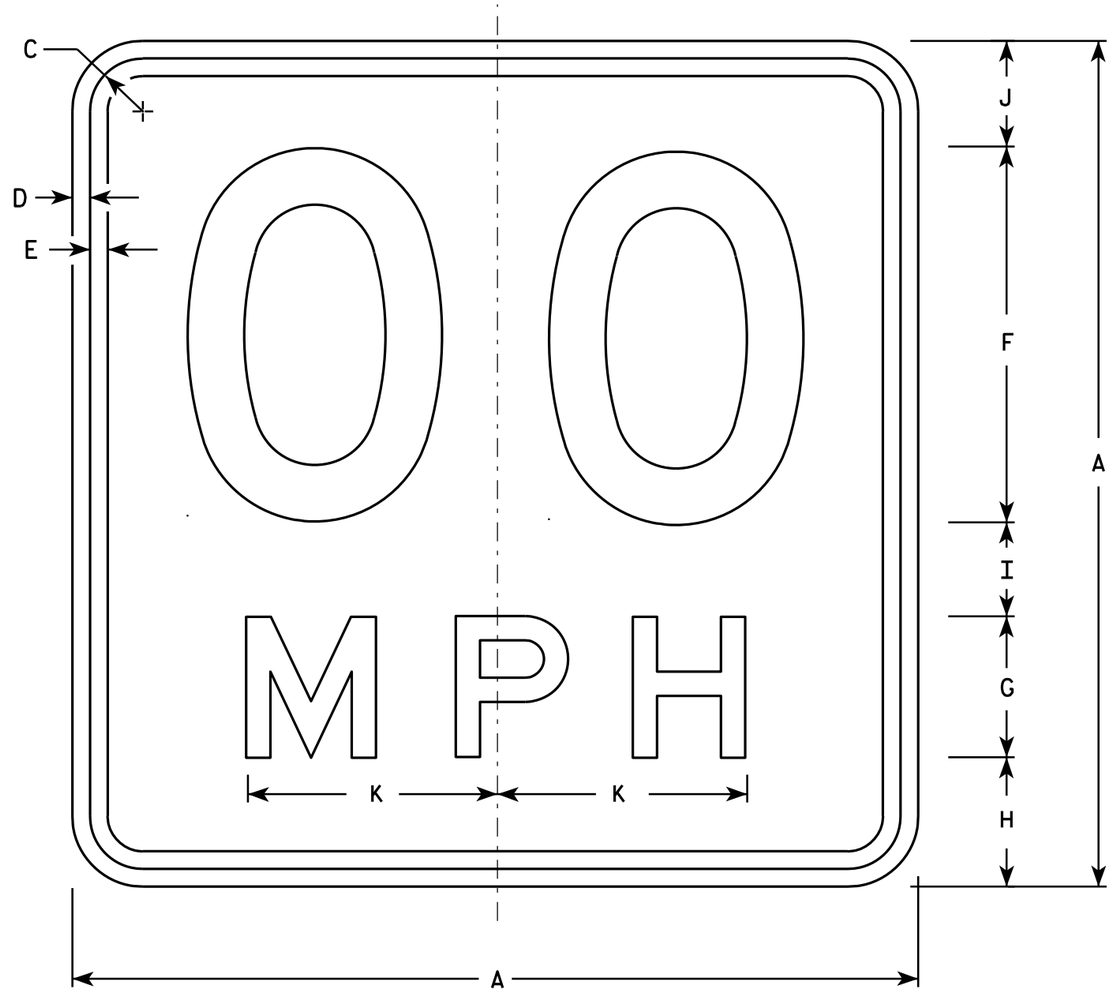
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/10/16 PLATE W6-3.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

7

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W63.DGN PLOT DATE : 10-MAR-2016 14:01 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 6.080757:1.000000
WISDOT/CADDS SHEET 42



W13-1

* For 30" x 30" Warning Signs, use 18" x 18" W13-1 signs.
For 36" x 36" Warning Signs, use 24" x 24" W13-1 signs.

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - See Note 6
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically space about centerline to achieve proper balance.
6. Line 1 is Series D
   Line 2 is Series E

	SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
	1	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
*	2S	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
*	2M	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
	3	24		1 1/8	3/8	1/2	10	4	4	2 3/4	3 1/4	6 5/8																4.00
	4	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
	5	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00

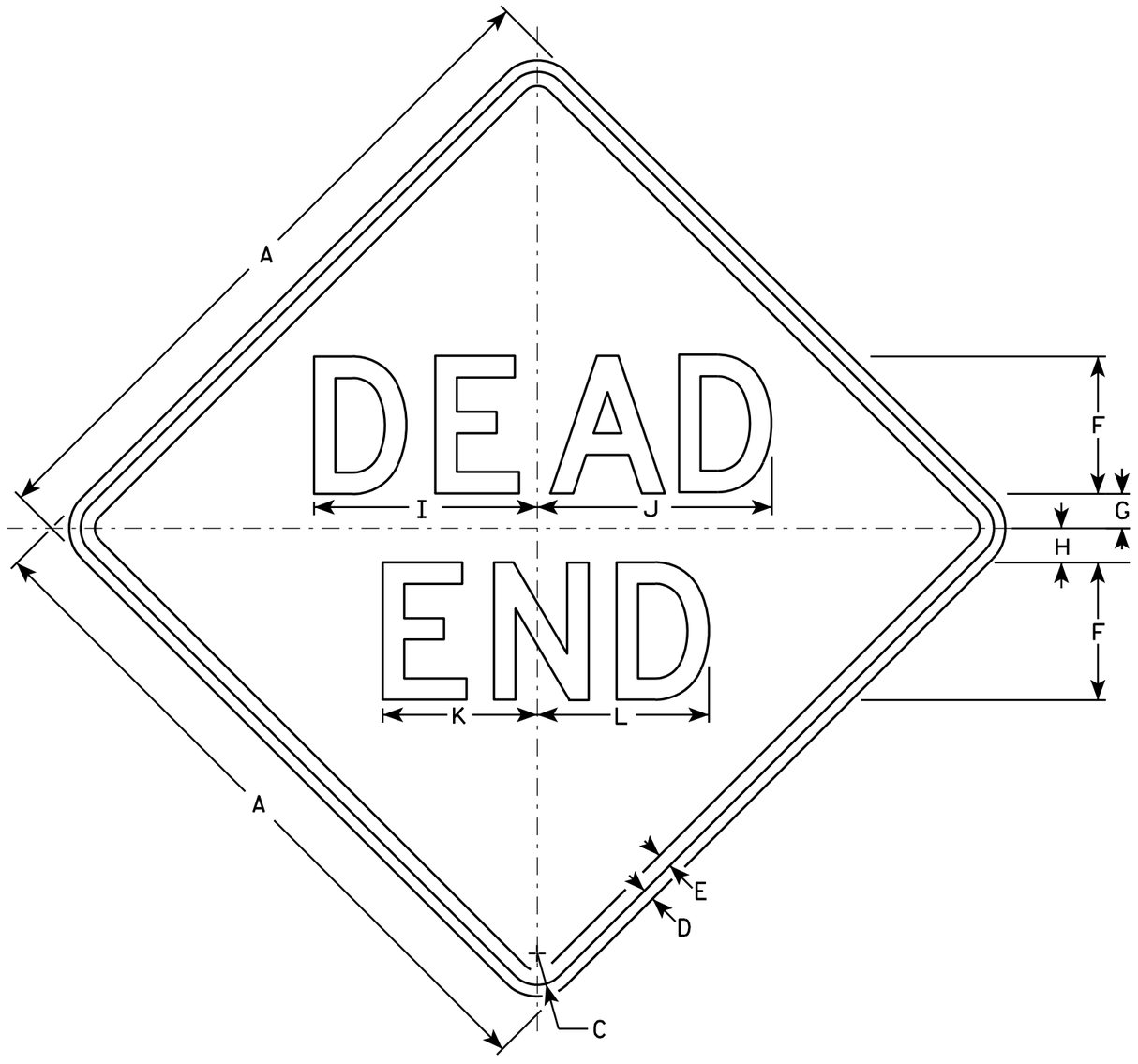
STANDARD SIGN
W13-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 5/31/12 PLATE NO. W13-1.16

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 225	E



W14-1

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	5	1	2	8 1/4	8 5/8	5 5/8	6 1/4															4.0
2S	30		1 3/8	1/2	5/8	6	1 1/2	2 1/2	9 3/4	10 1/4	6 3/4	7 1/2															6.25
2M	30		1 3/8	1/2	5/8	6	1 1/2	2 1/2	9 3/4	10 1/4	6 3/4	7 1/2															6.25
3	36		1 5/8	5/8	3/4	7	2	3	11 3/8	12	7 7/8	8 3/4															9.0
4																											
5																											

STANDARD SIGN
W14-1

WISCONSIN DEPT OF TRANSPORTATION

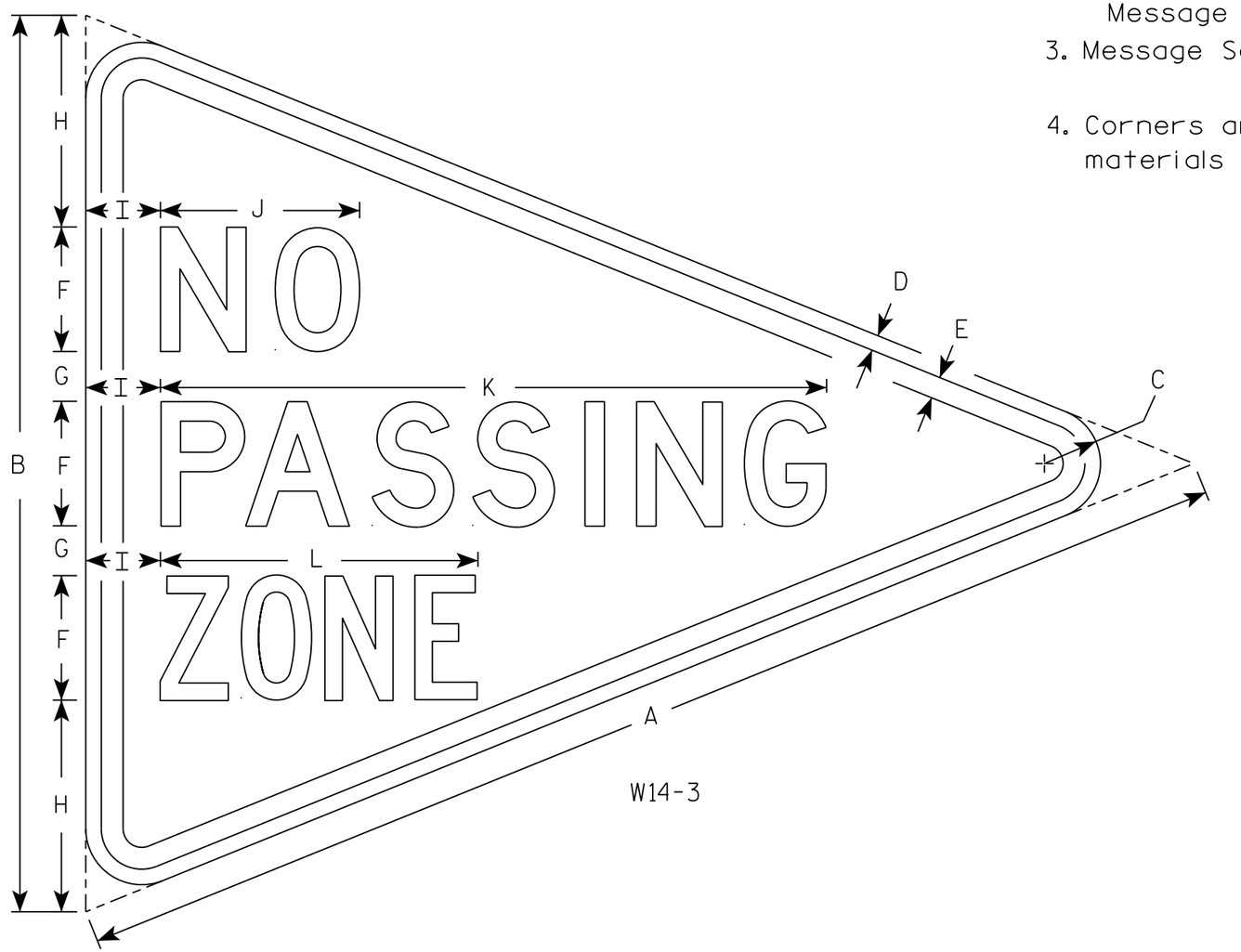
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/13/13 PLATE NO. W14-1.7

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 226	E

NOTES

1. Sign is Type II- Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - Lines 1 and 2 are Series D.
   Line 3 is series C.
4. Corners and borders shall be rounded on all base materials for this sign.



W14-3

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	36	2 1/4	5/8	7/8	5	2	8 1/2	3	8	26 3/4	12 3/4															5.56
2M																											
3																											
4																											
5																											

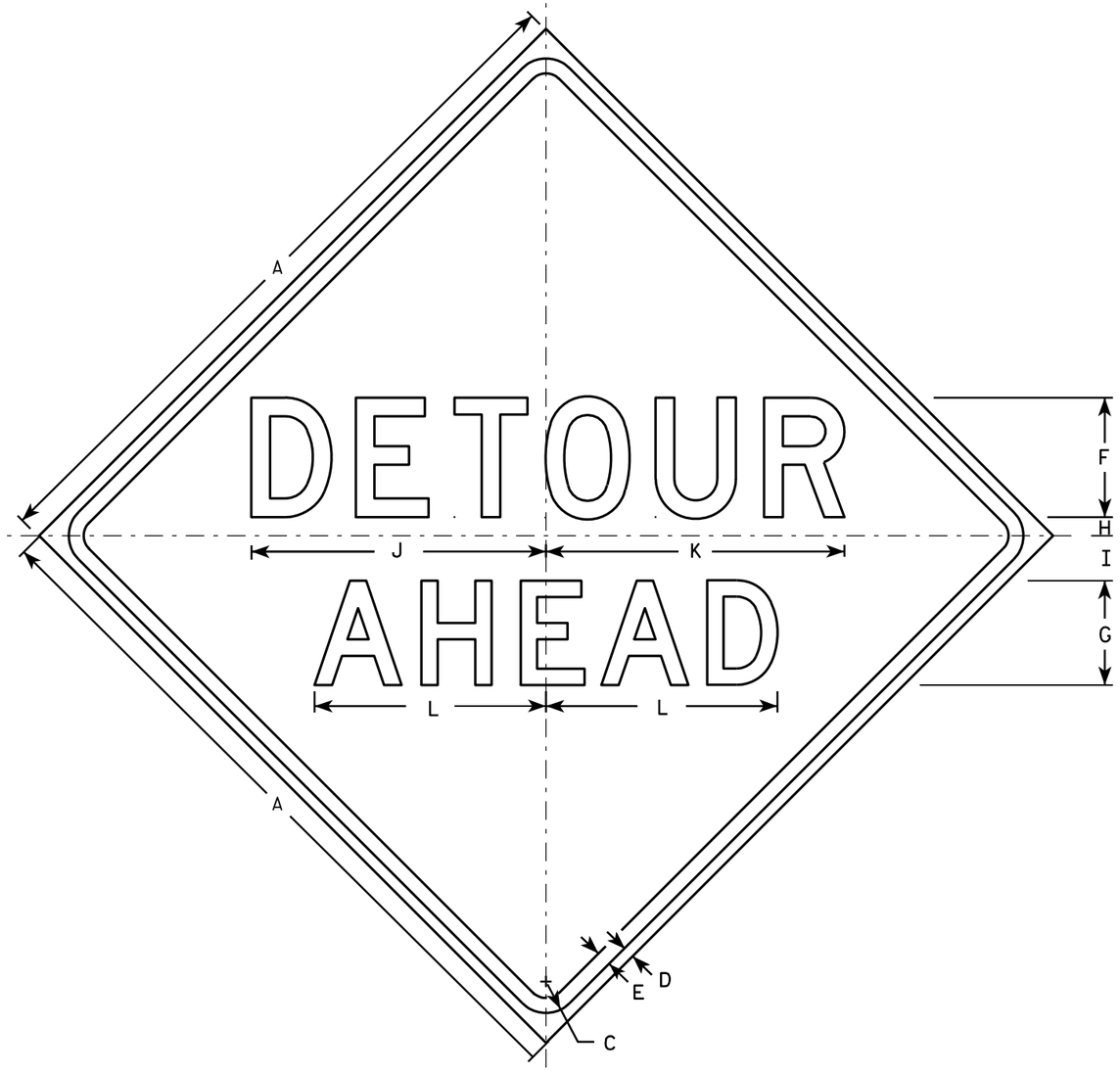
STANDARD SIGN
W14-3

WISCONSIN DEPT OF TRANSPORTATION

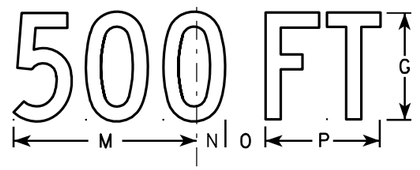
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/21/17 PLATE NO. W14-3.10

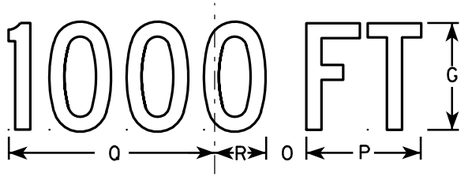
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 227	E



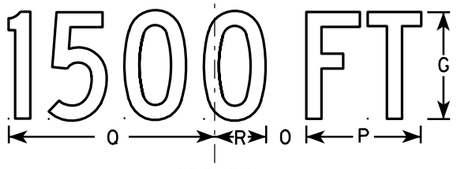
W20-2A



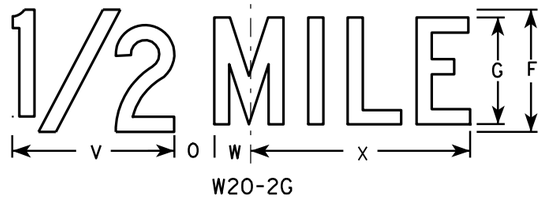
W20-2D



W20-2C



W20-2B



W20-2G

W20-2F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Line 1 is Series D.
   Line 2 is Series D for AHEAD and Series C for all other distances.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	6	5	1	2 1/4	14 3/4	15	11 5/8	9	1 3/8	1 7/8	5 5/8	10 1/8	2 1/2	1 1/8	4 1/2	3 1/2	8	1 3/4	10 3/4			9.0
2S	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
2M	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
3	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
4	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
5	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0

STANDARD SIGN
W20-2A,B,C,D,F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-2.6

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 228	E

STATION		Distance	WEST FRONTAGE ROAD AREA (SF) Cut	Salvaged/Unusable Pavement Material	Fill	EBS	Incremental Vol (CY) (Unadjusted) Cut	Salvaged/Unusable Pavement Material	Fill	EBS	Cumulative Vol (CY) (Unadjusted) Cut 1.00	Salvaged/Unusable Pavement Material	Fill 1.00	EBS	Unadjusted Mass Ordinate
2737+00	AH	0.00	200	12	6	0	0	0	0	0	0	0	0	0	0
2737+50		50.00	238	12	4	0	405	23	9	0	405	23	9	0	373
2738+00		50.00	286	12	5	0	485	23	8	0	890	46	17	0	827
2738+50		50.00	328	12	0	0	568	23	4	0	1,458	69	21	0	1,368
2739+00		50.00	385	12	0	0	660	23	0	0	2,118	92	21	0	2,005
2739+50		50.00	450	12	0	0	773	23	0	0	2,891	115	21	0	2,755
2740+00		50.00	536	12	0	0	913	23	0	0	3,804	138	21	0	3,645
2740+50		50.00	567	12	0	0	1,022	23	0	0	4,826	160	21	0	4,644
2741+00		50.00	603	12	0	0	1,084	23	0	0	5,910	183	21	0	5,705
2741+50		50.00	613	12	0	0	1,126	23	0	0	7,036	206	21	0	6,808
2742+00		50.00	613	12	0	0	1,135	23	0	0	8,171	229	21	0	7,920
2742+50		50.00	654	12	0	0	1,173	23	0	0	9,344	252	21	0	9,070
2743+00		50.00	544	12	0	0	1,109	23	0	0	10,452	275	21	0	10,156
2743+50		50.00	489	12	0	0	956	23	0	0	11,409	298	21	0	11,090
2744+00		50.00	408	12	0	0	831	23	0	0	12,240	321	21	0	11,898
2744+50		50.00	369	12	0	0	720	23	0	0	12,960	344	21	0	12,595
2745+00		50.00	306	12	0	0	625	23	0	0	13,585	367	21	0	13,197
2745+50		50.00	270	12	0	0	533	23	0	0	14,118	390	21	0	13,707
2746+00		50.00	203	12	0	0	439	23	0	0	14,557	413	21	0	14,123
2746+50		50.00	170	12	0	0	346	23	0	0	14,903	435	21	0	14,446
2747+00		50.00	132	12	9	0	280	23	9	0	15,183	458	30	0	14,694
2747+50		50.00	87	12	18	0	203	23	25	0	15,386	481	55	0	14,849
2748+00		50.00	44	12	36	0	122	23	50	0	15,507	504	105	0	14,898
2748+50		50.00	32	12	54	0	70	23	83	0	15,578	527	189	0	14,862
2749+00		50.00	39	12	63	0	66	23	109	0	15,643	550	297	0	14,796
2749+50		50.00	41	12	55	0	74	23	109	0	15,717	573	406	0	14,738
2750+00		50.00	42	12	36	0	76	23	84	0	15,794	596	491	0	14,707
2750+50		50.00	41	12	30	0	77	23	61	0	15,870	619	552	0	14,700
2751+00		50.00	73	12	15	0	105	23	42	0	15,976	642	593	0	14,741
2751+50		50.00	99	12	6	0	159	23	19	0	16,135	665	612	0	14,858
2752+00		50.00	115	12	1	0	199	23	6	0	16,334	688	618	0	15,028
2752+50		50.00	132	12	0	0	229	23	1	0	16,563	710	619	0	15,234
2753+00		50.00	137	12	0	0	249	23	0	0	16,811	733	619	0	15,459
2753+50		50.00	168	12	0	0	282	23	0	0	17,093	756	619	0	15,718
2754+00		50.00	188	12	2	0	329	23	2	0	17,423	779	620	0	16,023
2754+50		50.00	136	12	2	0	300	23	3	0	17,723	802	624	0	16,297
2755+00		50.00	180	12	5	0	293	23	6	0	18,016	825	630	0	16,561
2755+50		50.00	206	12	0	0	358	23	5	0	18,374	848	634	0	16,892
2756+00		50.00	241	12	0	0	414	23	0	0	18,788	871	634	0	17,282
2756+50		50.00	233	12	0	0	439	23	0	0	19,227	894	634	0	17,699
2757+00		50.00	201	12	0	0	402	23	0	0	19,629	917	634	0	18,078
2757+50		50.00	188	12	1	0	360	23	1	0	19,988	940	635	0	18,414
2757+78		27.99	152	12	68	0	176	13	35	0	20,165	952	671	0	18,542
2758+00	BK	22.01	180	12	0	0	135	10	28	0	20,300	962	698	0	18,639
4751+08	AH	0.00	443	12	0	0	0	0	0	0	20,300	962	698	0	18,639
4751+50		42.00	281	12	3	0	563	19	2	0	20,863	982	700	0	19,181
4752+00		50.00	504	12	77	91	727	23	74	84	21,590	1,005	774	84	19,811
4752+50		50.00	108	12	44	91	566	23	112	168	22,156	1,028	886	252	20,242
4753+00		50.00	90	12	81	143	183	23	116	216	22,339	1,051	1,003	469	20,286
4753+50		50.00	83	12	130	0	160	23	196	132	22,499	1,073	1,198	601	20,227
4754+00		50.00	55	12	15	0	128	23	134	0	22,627	1,096	1,333	601	20,198
4754+50		50.00	100	0	29	0	144	11	40	0	22,771	1,108	1,373	601	20,290
4755+00		50.00	161	0	18	0	242	0	43	0	23,013	1,108	1,416	601	20,488
4755+50		50.00	64	0	2	0	208	0	19	0	23,221	1,108	1,435	601	20,678
4756+00		50.00	0	0	0	0	59	0	2	0	23,280	1,108	1,437	601	20,735
4756+50		50.00	125	0	0	0	116	0	0	0	23,396	1,108	1,437	601	20,851
4757+00		50.00	558	0	0	0	633	0	0	0	24,028	1,108	1,437	601	21,484

(CONTINUED FROM PREVIOUS SHEET)

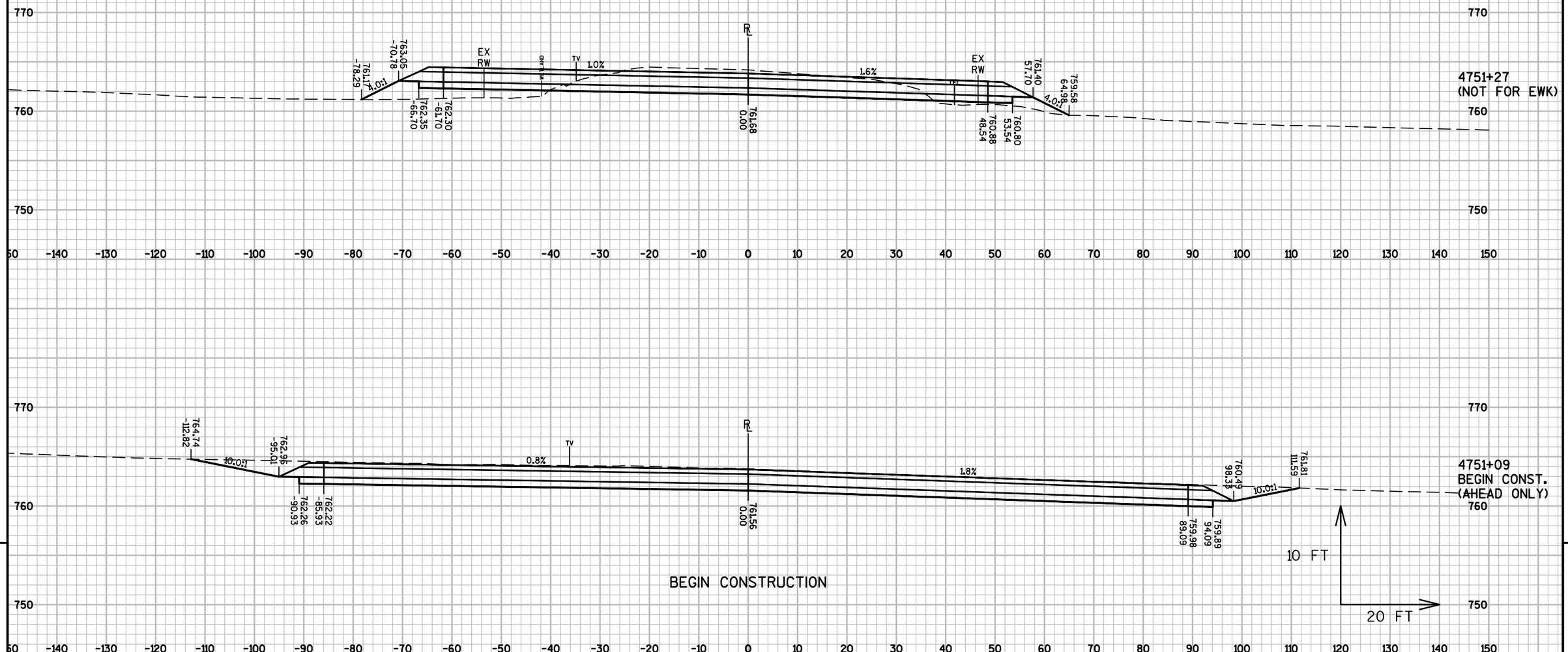
		WEST FRONTAGE ROAD												
		AREA (SF)				Incremental Vol (CY) (Unadjusted)				Cumulative Vol (CY) (Unadjusted)				Unadjusted
		Cut	Salvaged/Unusable	Fill		Cut	Salvaged/Unusable	Fill		Cut	Salvaged/Unusable	Fill		Mass
STATION	Distance		Pavement Material		EBS		Pavement Material		EBS	1.00	Pavement Material	1.00	EBS	Ordinate
4757+50	50.00	618	0	0	0	1,088	0	0	0	25,117	1,108	1,437	601	22,572
4758+00	50.00	562	0	0	0	1,092	0	0	0	26,209	1,108	1,437	601	23,664
4758+50	50.00	417	0	0	0	906	0	0	0	27,115	1,108	1,437	601	24,571
4759+00	50.00	330	0	2	0	691	0	1	0	27,806	1,108	1,438	601	25,260
4759+50	50.00	151	0	6	0	445	0	7	0	28,251	1,108	1,446	601	25,698
4760+00	50.00	0	0	0	0	140	0	6	0	28,391	1,108	1,451	601	25,832
4760+50	50.00	0	0	50	0	0	0	46	0	28,391	1,108	1,497	601	25,785
4761+00	50.00	22	0	1	0	20	0	47	0	28,411	1,108	1,545	601	25,758
4761+50	50.00	48	9	113	0	65	8	106	0	28,475	1,116	1,651	601	25,709
4762+00	50.00	53	0	32	0	94	8	134	0	28,569	1,124	1,785	601	25,660
4762+50	50.00	21	0	23	0	69	0	51	0	28,638	1,124	1,836	601	25,678
4763+00	50.00	15	0	75	0	33	0	91	0	28,671	1,124	1,926	601	25,620
4763+50	50.00	23	0	43	0	35	0	109	0	28,705	1,124	2,036	601	25,546
4764+00	50.00	53	0	7	0	71	0	46	0	28,776	1,124	2,082	601	25,571
4764+50	50.00	48	0	9	0	94	0	15	0	28,870	1,124	2,097	601	25,649
4765+00	50.00	5	0	17	0	49	0	25	0	28,919	1,124	2,121	601	25,674
4765+50	50.00	2	0	12	0	7	0	27	0	28,926	1,124	2,148	601	25,654
4766+00	50.00	1	0	44	0	3	0	52	0	28,930	1,124	2,200	601	25,606
4766+50	50.00	2	0	14	0	3	0	54	0	28,933	1,124	2,254	601	25,555
4767+00	50.00	2	0	15	0	4	0	27	0	28,937	1,124	2,280	601	25,533
4767+50	50.00	2	0	16	0	4	0	28	0	28,941	1,124	2,308	601	25,509
4768+00	50.00	2	0	21	0	3	0	34	0	28,945	1,124	2,343	601	25,478
4768+50	50.00	9	0	18	0	10	0	37	0	28,954	1,124	2,379	601	25,451
4769+00	50.00	3	0	24	0	11	0	39	0	28,965	1,124	2,418	601	25,423
4769+50	50.00	2	0	23	0	5	0	44	0	28,970	1,124	2,462	601	25,384
4770+00	50.00	3	0	23	0	5	0	43	0	28,975	1,124	2,505	601	25,346
4770+50	50.00	4	0	16	0	6	0	36	0	28,981	1,124	2,541	601	25,316
4771+00	50.00	6	0	14	0	9	0	28	0	28,990	1,124	2,569	601	25,297
4771+50	50.00	10	0	15	0	15	0	27	0	29,004	1,124	2,596	601	25,285
4772+00	50.00	4	0	13	0	13	0	26	0	29,017	1,124	2,621	601	25,272
4772+50	50.00	6	0	15	0	9	0	26	0	29,027	1,124	2,647	601	25,256
4773+00	50.00	15	0	300	0	19	0	292	0	29,046	1,124	2,939	601	24,983
4773+50	50.00	54	0	217	0	63	0	479	0	29,109	1,124	3,418	601	24,568
4774+00	50.00	46	0	250	0	93	0	432	0	29,202	1,124	3,850	601	24,228
4774+50	50.00	59	3	282	0	98	3	492	0	29,300	1,127	4,343	601	23,830
4775+00	50.00	61	6	276	0	111	9	516	0	29,411	1,135	4,859	601	23,416
4775+50	50.00	46	9	197	0	99	14	438	0	29,509	1,150	5,297	601	23,063
4776+00	50.00	31	12	133	0	71	20	305	0	29,580	1,170	5,602	601	22,808
4776+50	50.00	20	12	119	0	47	23	233	0	29,627	1,193	5,835	601	22,600
4777+00	50.00	45	12	97	0	61	23	199	0	29,688	1,216	6,034	601	22,438
4777+50	50.00	29	12	115	0	68	23	196	0	29,756	1,239	6,230	601	22,287
4778+00	50.00	25	12	75	0	50	23	176	0	29,806	1,261	6,407	601	22,138
4778+50	50.00	20	12	43	0	41	23	110	0	29,848	1,284	6,517	601	22,047
4779+00	50.00	22	12	25	0	39	23	64	0	29,886	1,307	6,580	601	21,999
4779+50	50.00	43	12	3	0	60	23	26	0	29,946	1,330	6,606	601	22,010
4780+00	50.00	40	12	13	0	77	23	15	0	30,023	1,353	6,621	601	22,049
4780+50	50.00	50	12	12	0	83	23	24	0	30,106	1,376	6,645	601	22,085
4781+00	50.00	84	12	13	0	123	23	24	0	30,229	1,399	6,668	601	22,162
4781+50	50.00	125	12	3	0	193	23	15	0	30,423	1,422	6,683	601	22,318
4782+00	50.00	51	12	89	0	163	23	85	0	30,585	1,445	6,768	601	22,372
4782+50	50.00	62	12	22	0	105	23	103	0	30,690	1,468	6,871	601	22,351
4783+00	50.00	79	12	13	0	131	23	33	0	30,821	1,491	6,904	601	22,426
4783+50	50.00	105	12	9	0	170	23	21	0	30,991	1,514	6,924	601	22,553
4784+00	50.00	137	12	5	0	224	23	13	0	31,215	1,536	6,937	601	22,741
4784+50	50.00	178	12	0	0	292	23	5	0	31,507	1,559	6,942	601	23,006
4785+00 BK	50.00	209	12	0	0	359	23	0	0	31,866	1,582	6,942	601	23,341
WEST FRONTAGE ROAD TOTAL						**31,866**	**1,582**	**6,942**	**601**	**31,866**	**1,582**	**6,942**	**601**	**23,341**

STATION		Distance	58TH ROAD AREA (SF) Cut	Salvaged/Unusable Pavement Material	Fill	EBS	Incremental Vol (CY) (Unadjusted) Cut	Salvaged/Unusable Pavement Material	Fill	EBS	Cumulative Vol (CY) (Unadjusted) Cut 1.00	Salvaged/Unusable Pavement Material	Fill 1.00	EBS	Unadjusted Mass Ordinate
34+00	AH	0.00	89	9	0	0	0	0	0	0	0	0	0	0	0
34+50		50.00	115	9	1	0	188	16	1	0	188	16	1	0	171
35+00		50.00	140	9	2	0	236	16	2	0	424	32	3	0	388
35+50		50.00	146	9	0	0	265	16	2	0	689	48	5	0	635
36+00		50.00	152	9	0	0	276	16	0	0	965	65	5	0	895
36+50		50.00	147	9	0	0	277	16	0	0	1,242	81	5	0	1,156
37+00		50.00	177	9	0	0	300	16	0	0	1,542	97	5	0	1,440
37+50		50.00	133	9	5	0	287	16	5	0	1,828	113	10	0	1,706
38+00		50.00	126	9	21	0	240	16	24	0	2,068	129	34	0	1,905
38+50	BK	50.00	131	9	114	36	238	16	126	33	2,306	145	160	33	2,002
39+00	AH	0.00	60	9	70	62	0	0	0	0	2,306	145	160	33	2,002
39+50		50.00	32	9	28	77	85	16	91	128	2,391	161	251	162	1,979
40+00		50.00	195	9	13	0	210	16	38	71	2,601	177	289	233	2,135
40+50		50.00	161	9	81	0	330	16	86	0	2,931	194	375	233	2,363
41+00		50.00	127	9	182	0	267	16	243	0	3,198	210	618	233	2,370
41+50		50.00	102	9	218	0	212	16	370	0	3,410	226	989	233	2,196
42+00		50.00	114	9	211	0	200	16	397	0	3,610	242	1,386	233	1,983
42+50		50.00	146	9	145	0	241	16	329	0	3,851	258	1,715	233	1,878
43+00		50.00	111	9	173	0	237	16	294	0	4,088	274	2,009	233	1,805
43+50		50.00	113	9	113	0	207	16	265	0	4,296	290	2,274	233	1,731
44+00		50.00	109	9	33	0	206	16	135	0	4,501	306	2,409	233	1,786
44+50		50.00	177	9	2	0	265	16	33	0	4,767	323	2,442	233	2,002
45+00		50.00	308	9	0	0	450	16	2	0	5,216	339	2,444	233	2,434
45+50		50.00	273	9	0	0	538	16	0	0	5,754	355	2,444	233	2,955
46+00		50.00	255	9	0	0	489	16	0	0	6,243	371	2,444	233	3,428
46+50		50.00	287	9	0	0	502	16	0	0	6,745	387	2,444	233	3,914
47+00		50.00	322	9	0	154	564	16	0	143	7,309	403	2,444	375	4,462
47+50		50.00	316	9	2	154	591	16	2	286	7,899	419	2,446	661	5,035
48+00		50.00	667	9	0	152	910	16	2	284	8,810	435	2,447	944	5,927
48+50		50.00	316	9	0	129	910	16	0	260	9,720	452	2,447	1,205	6,822
49+00		50.00	198	9	0	94	475	16	0	207	10,196	468	2,447	1,412	7,281
49+50		50.00	124	9	0	0	297	16	0	87	10,493	484	2,447	1,499	7,562
50+00		50.00	137	9	0	0	241	16	0	0	10,734	500	2,447	1,499	7,787
50+50		50.00	146	9	0	0	261	16	0	0	10,995	516	2,447	1,499	8,032
51+00		50.00	256	9	0	37	372	16	0	34	11,367	532	2,447	1,533	8,388
51+50		50.00	312	9	0	73	526	16	0	101	11,893	548	2,447	1,634	8,898
52+00		50.00	221	9	0	81	493	16	0	143	12,387	564	2,447	1,777	9,375
52+50		50.00	217	9	0	97	405	16	0	165	12,792	581	2,447	1,942	9,764
53+00		50.00	221	9	0	81	406	16	0	165	13,197	597	2,447	2,107	10,154
53+50		50.00	261	9	0	66	447	16	0	137	13,644	613	2,447	2,244	10,584
54+00		50.00	249	9	0	66	473	16	0	122	14,117	629	2,447	2,366	11,041
54+50		50.00	221	9	0	66	435	16	0	122	14,553	645	2,447	2,488	11,461
55+00		50.00	109	9	25	57	306	16	23	113	14,858	661	2,470	2,601	11,726
55+50		50.00	73	9	15	0	169	16	37	52	15,027	677	2,507	2,654	11,842
56+00		50.00	23	9	48	0	89	16	58	0	15,116	693	2,565	2,654	11,857
56+50		50.00	14	9	68	0	35	16	107	0	15,151	710	2,672	2,654	11,769
57+00		50.00	30	9	57	0	41	16	116	0	15,192	726	2,788	2,654	11,679
57+50		50.00	55	9	53	0	79	16	102	0	15,272	742	2,890	2,654	11,640
57+72	BK	22.00	71	9	30	0	51	7	34	0	15,323	749	2,924	2,654	11,650
58TH ROAD TOTAL							**15,323**	**749**	**2,924**	**2,654**	**15,323**	**749**	**2,924**	**2,654**	**11,650**

		ACCESS ROAD B											
		AREA (SF)				Incremental Vol (CY) (Unadjusted)				Cumulative Vol (CY) (Unadjusted)				Unadjusted
		Cut	Salvaged/Unusable	Fill		Cut	Salvaged/Unusable	Fill		Cut	Salvaged/Unusable	Fill		Mass
STATION	Distance		Pavement Material		EBS		Pavement Material		EBS	1.00	Pavement Material	1.00	EBS	Ordinate
74B+21														
74B+50	29.00	317	0	28	0	170	0	15	0	170	0	15	0	155
75B+00	50.00	268	0	31	0	541	0	55	0	711	0	70	0	641
75B+50	50.00	166	0	67	0	401	0	91	0	1,112	0	161	0	951
76B+00	50.00	140	0	38	0	284	0	98	0	1,396	0	258	0	1,137
76B+50	50.00	137	0	13	0	257	0	47	0	1,652	0	305	0	1,347
77B+00	50.00	153	0	3	0	268	0	15	0	1,920	0	320	0	1,600
77B+50	50.00	158	0	1	0	287	0	4	0	2,208	0	324	0	1,884
78B+00	50.00	153	0	7	0	288	0	7	0	2,496	0	331	0	2,164
78B+50	50.00	151	8	9	0	433	7	35	0	2,929	7	366	0	2,555
79B+00	50.00	172	8	12	0	299	15	20	0	3,228	22	386	0	2,820
79B+50	50.00	200	8	15	0	344	15	25	0	3,572	37	411	0	3,125
79B+80	30.00	488	8	0	0	382	9	8	0	3,954	45	419	0	3,490
ACCESS ROAD B TOTAL						**3,954**	**45**	**419**	**0**	**3,954**	**45**	**419**	**0**	**3,490**

		SWALE 1								
		AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY) (Unadjusted)			
		Cut	Salvaged/Unusable	Fill	Cut	Salvaged/Unusable	Fill	Cut	Salvaged/Unusable	Fill	Mass
STATION	Distance		Pavement Material			Pavement Material		1.00	Pavement Material	1.00	Ordinate
100+00	50.00	0	0	59	0	0	54	0	0	54	-54
100+50	50.00	0	0	73	0	0	122	0	0	177	-176
101+00	50.00	0	0	66	0	0	129	0	0	306	-306
101+50	50.00	2	0	52	2	0	110	2	0	416	-414
102+00	50.00	3	0	40	4	0	85	6	0	501	-495
102+50	50.00	17	0	7	18	0	43	24	0	545	-521
103+00	50.00	40	0	0	52	0	6	76	0	551	-475
103+50	50.00	54	0	0	87	0	0	163	0	551	-389
104+00	50.00	39	0	0	86	0	0	249	0	551	-303
104+50	50.00	34	0	0	68	0	0	316	0	551	-235
105+00	50.00	39	0	0	67	0	0	384	0	551	-168
105+50	50.00	46	0	0	79	0	0	463	0	551	-89
106+00	50.00	52	0	0	91	0	0	554	0	551	3
106+50	50.00	48	0	0	93	0	0	647	0	551	96
107+00	50.00	52	0	0	92	0	0	739	0	551	188
SWALE 1 TOTAL					**739**	**0**	**551**	**739**	**0**	**551**	**188**

		SWALE 2									
		AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY) (Unadjusted)			
		Cut	Salvaged/Unusable	Fill	Cut	Salvaged/Unusable	Fill	Cut	Salvaged/Unusable	Expanded Fill	Mass
STATION	Distance		Pavement Material			Pavement Material		1.00	Pavement Material	1.00	Ordinate
200+00	50.00	2	0	0	1	0	0	1	0	0	1
200+50	50.00	17	6	0	17	6	0	18	6	0	13
201+00	50.00	1	0	0	16	6	0	34	11	0	23
201+50	50.00	8	0	0	8	0	0	42	11	0	31
201+95	45.00	29	0	0	31	0	0	74	11	0	62
SWALE 2 TOTAL					**74**	**11**	**0**	**74**	**11**	**0**	**62**

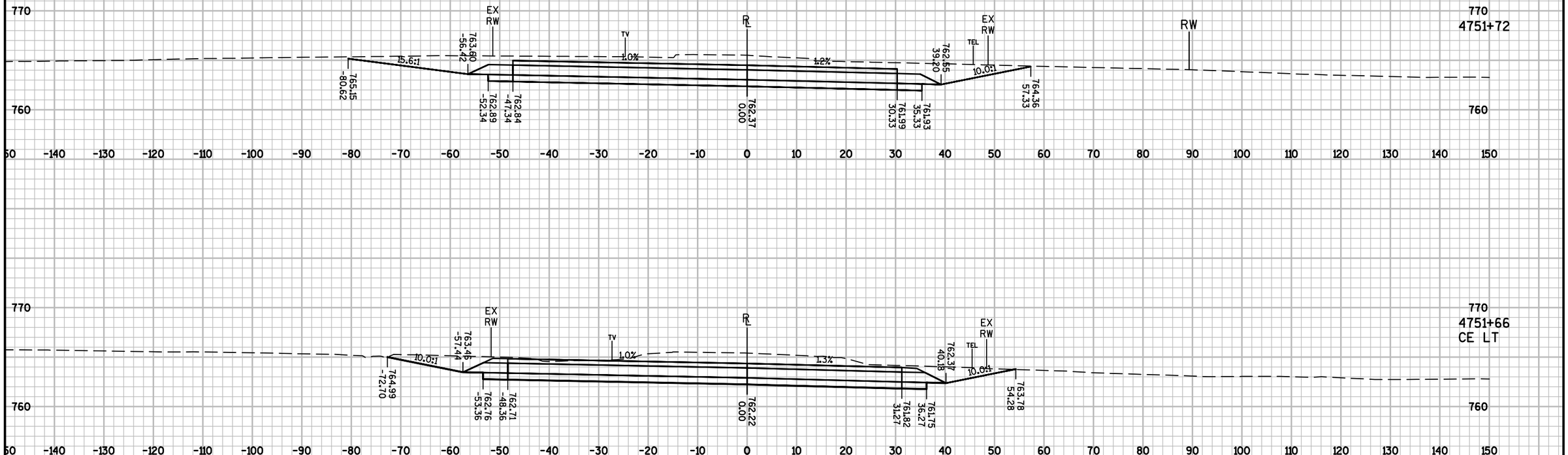


PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 234	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-NWFR.DWG
LAYOUT NAME - 01

PLOT DATE : 8/31/2016 3:35 PM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



9

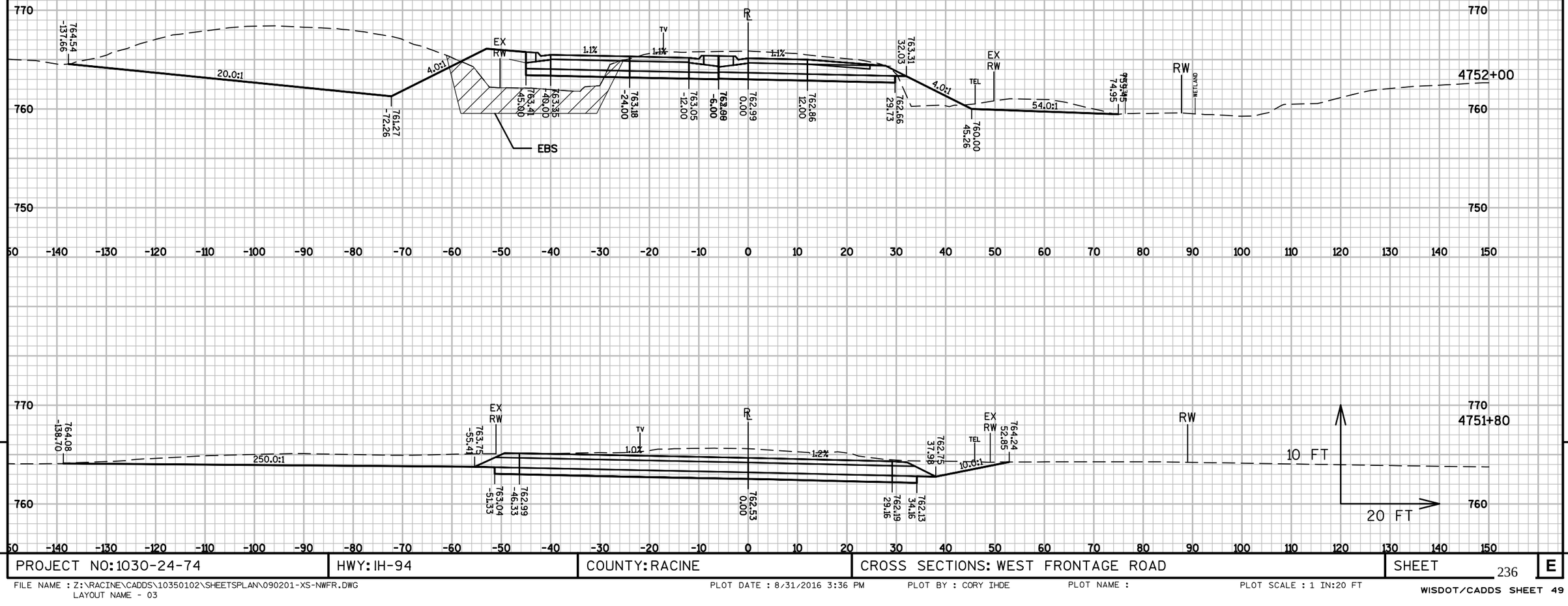
9

PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 235 E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-NWFR.DWG
LAYOUT NAME - 02

PLOT DATE : 8/31/2016 3:36 PM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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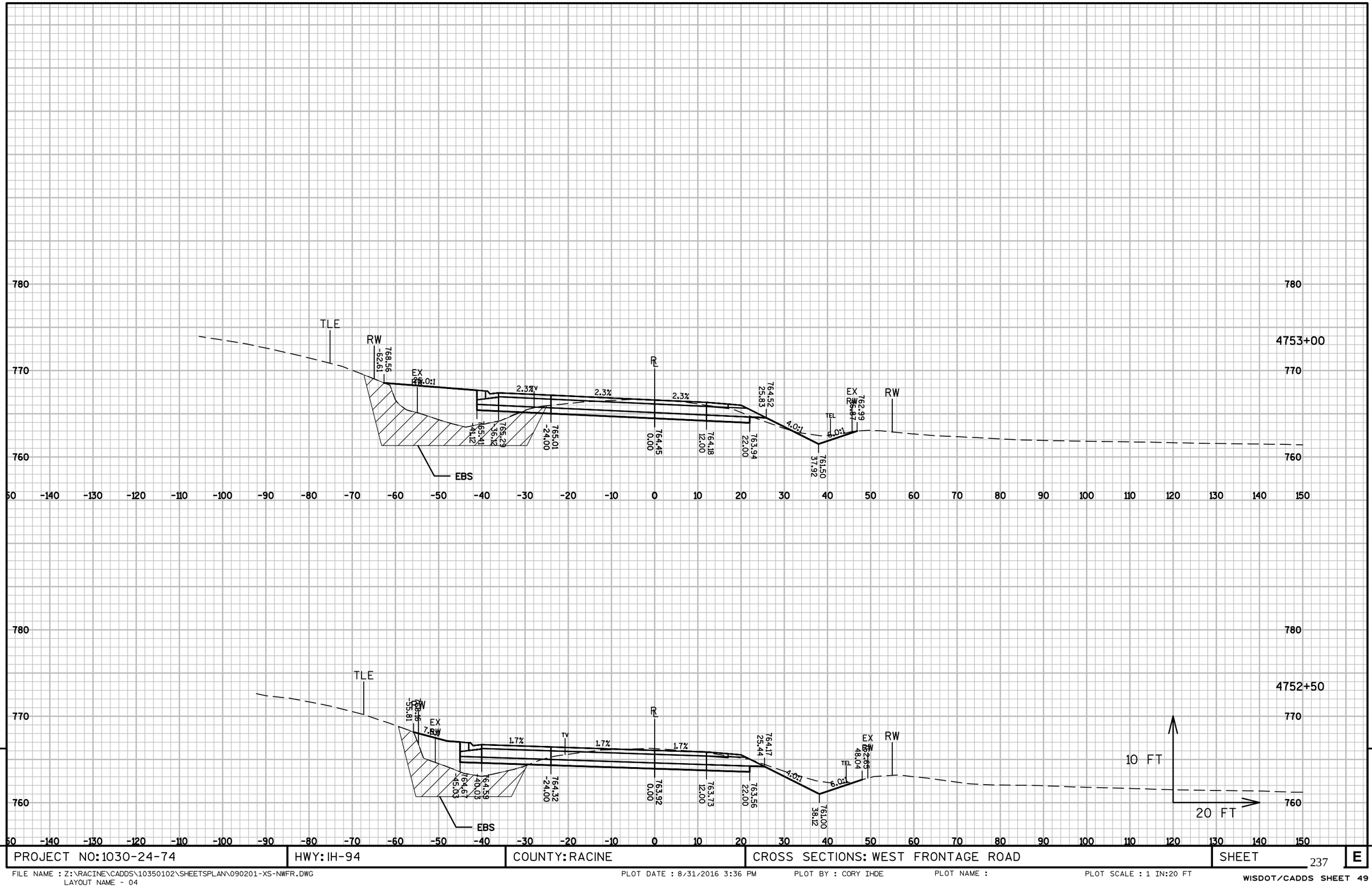
9

PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 236	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-NWFR.DWG
LAYOUT NAME - 03

PLOT DATE : 8/31/2016 3:36 PM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

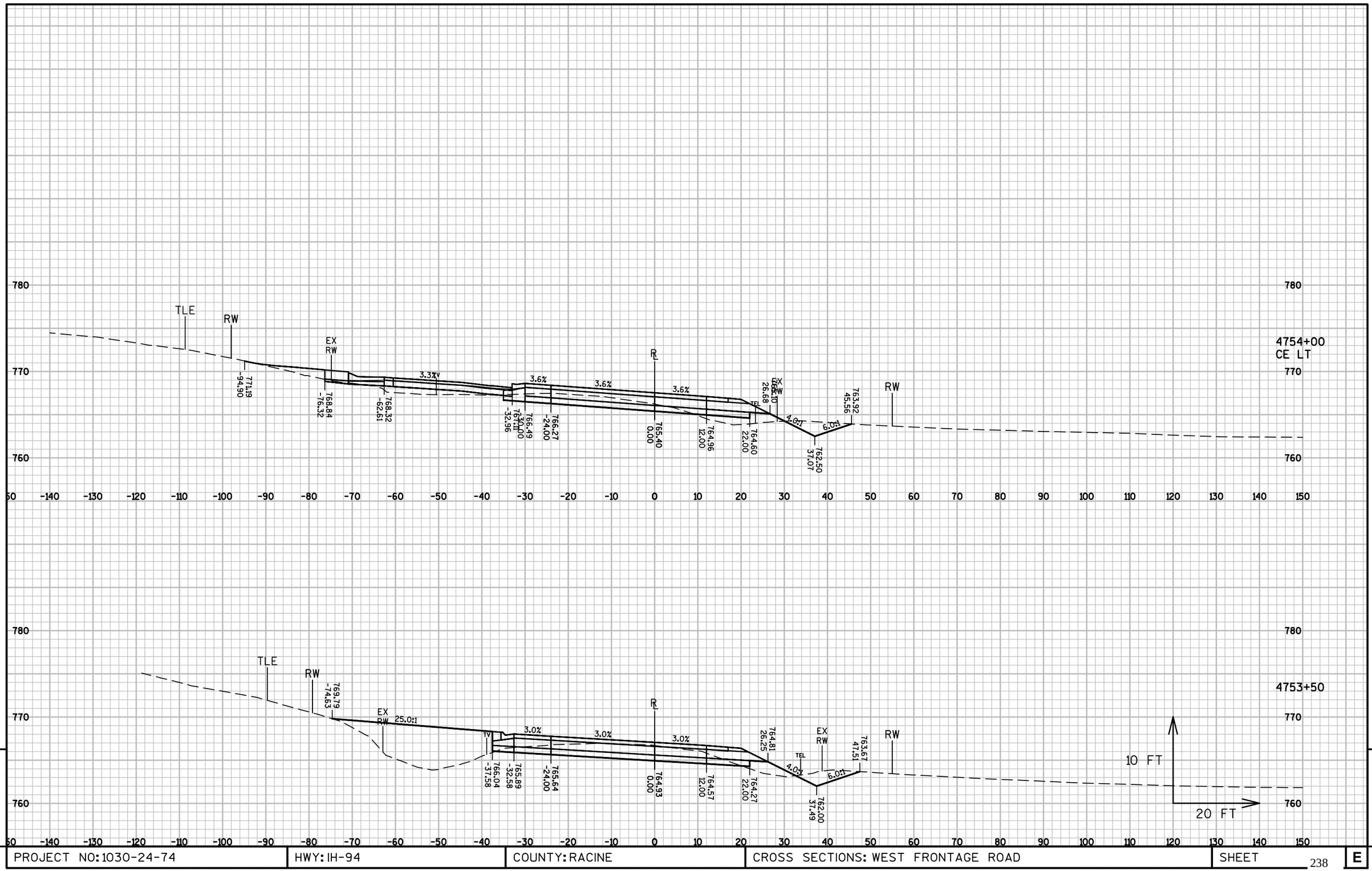


PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 237	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-NWFR.DWG
LAYOUT NAME - 04

PLOT DATE : 8/31/2016 3:36 PM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



9

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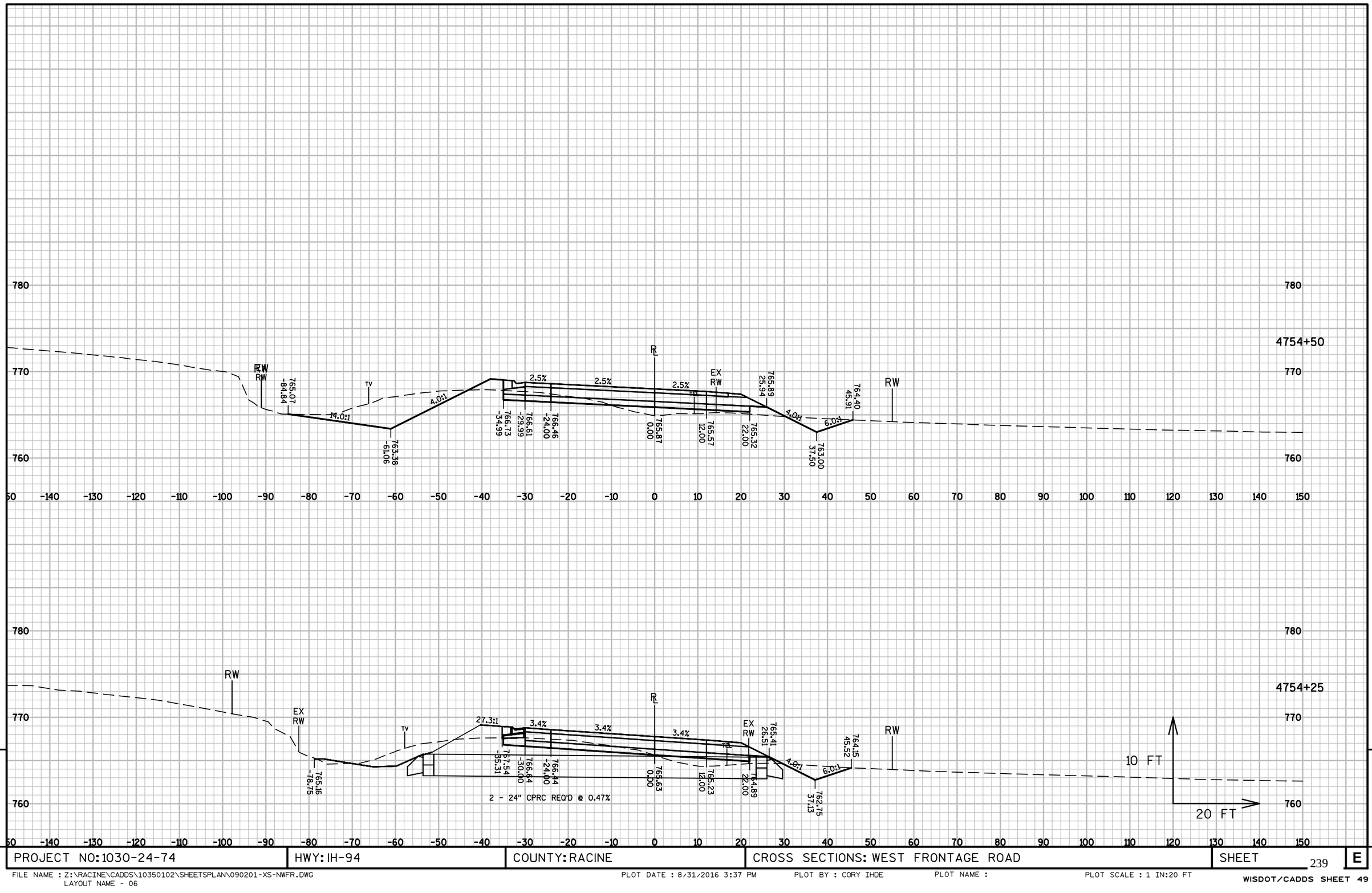
PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-NWFR.DWG
LAYOUT NAME - 05

PLOT DATE : 8/31/2016 3:37 PM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

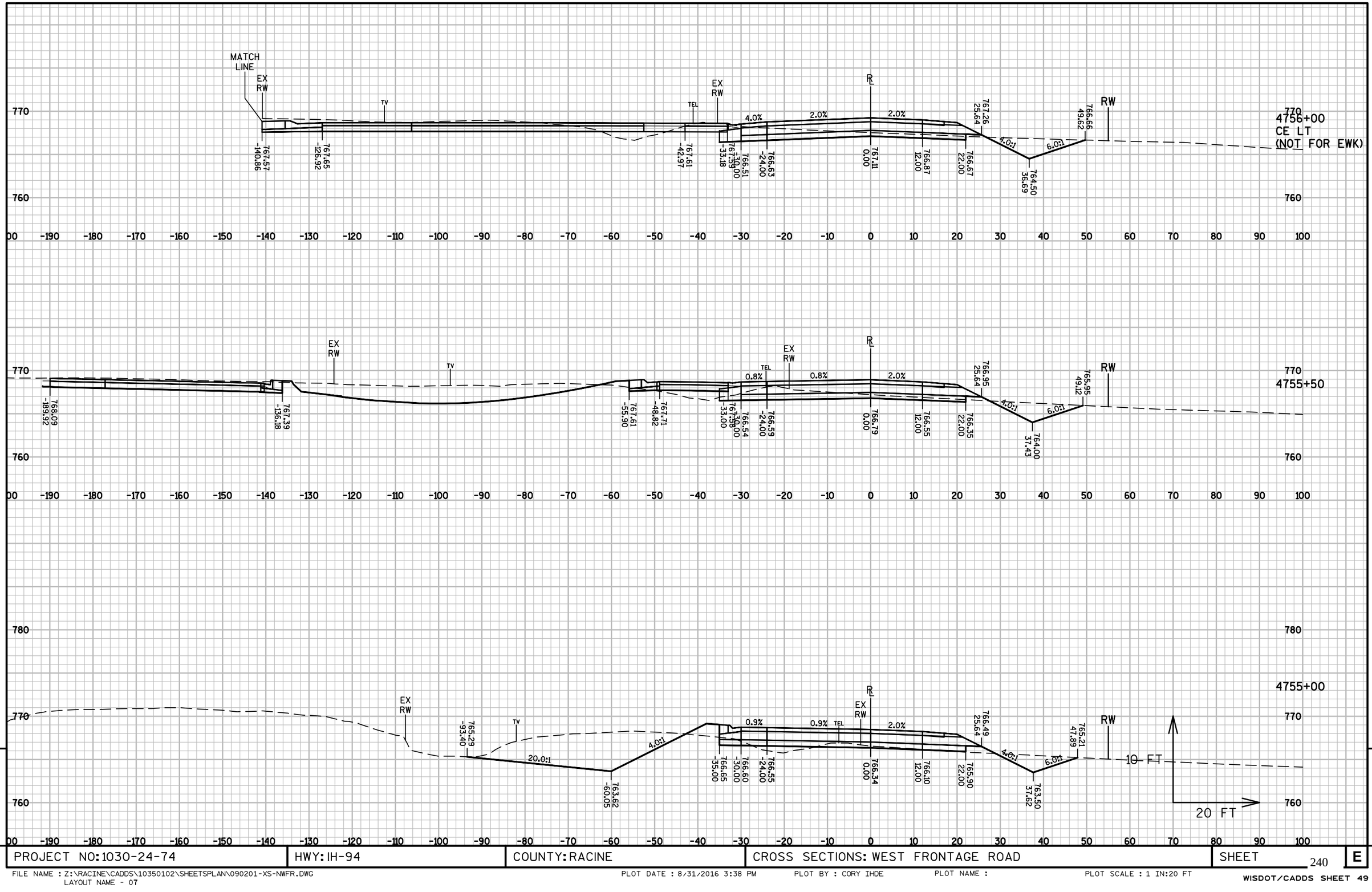


PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-NWFR.DWG
LAYOUT NAME - 06

PLOT DATE : 8/31/2016 3:37 PM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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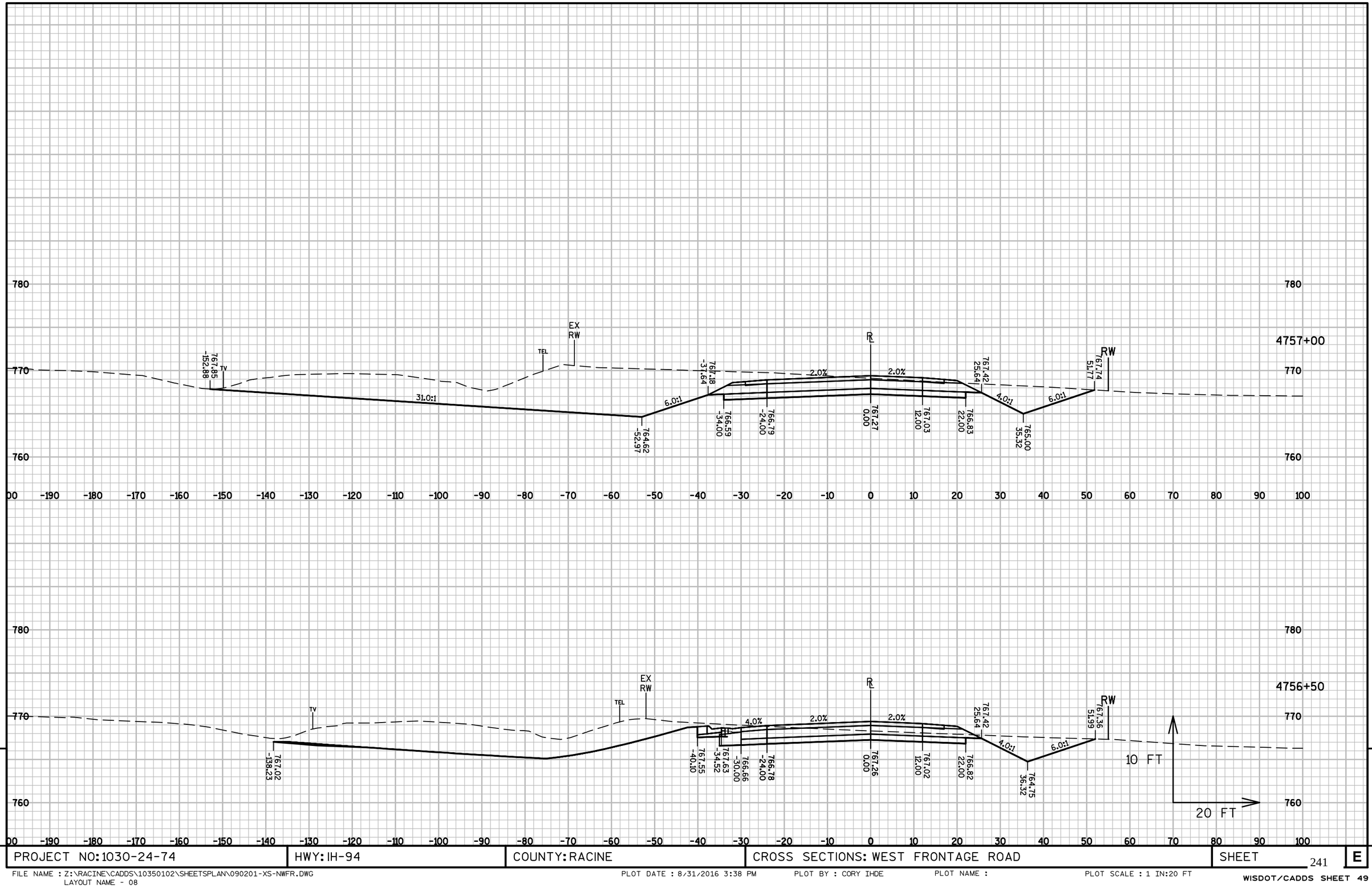
9

PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 240	E



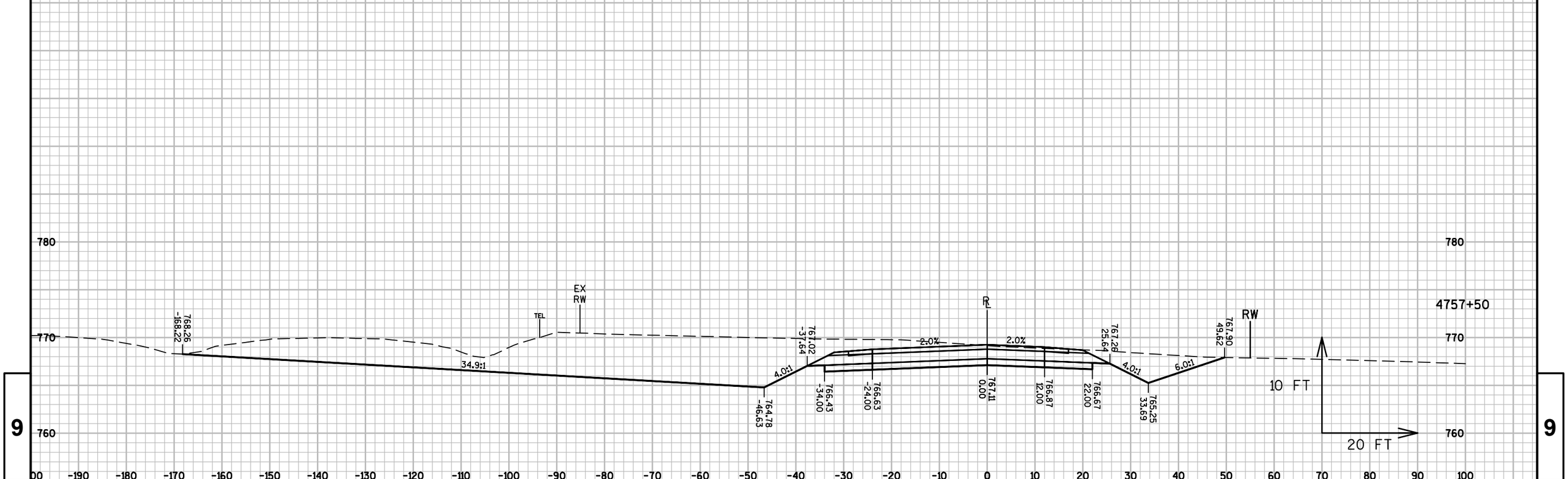
9

9

PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-NWFR.DWG
LAYOUT NAME - 08

PLOT DATE : 8/31/2016 3:38 PM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT



9

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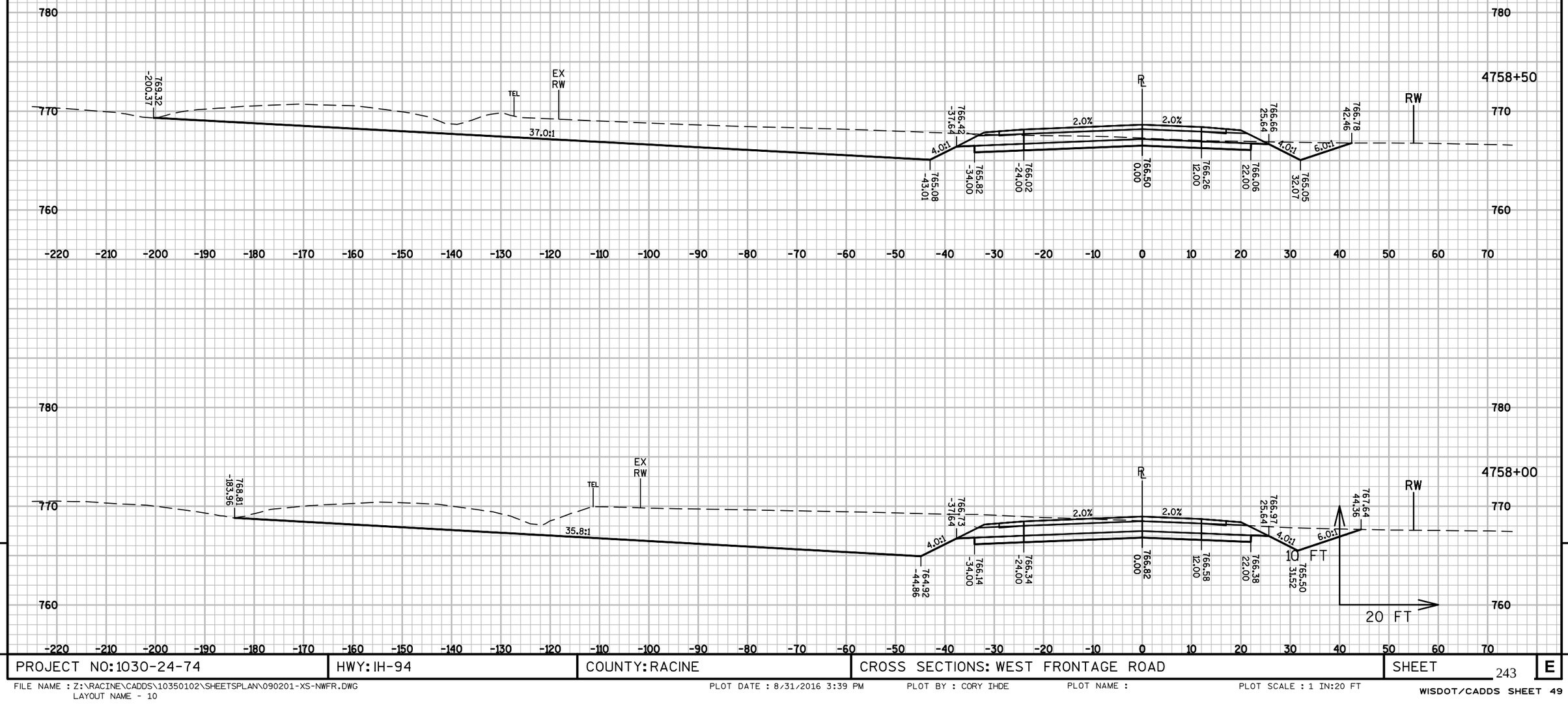
PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 242	E



9

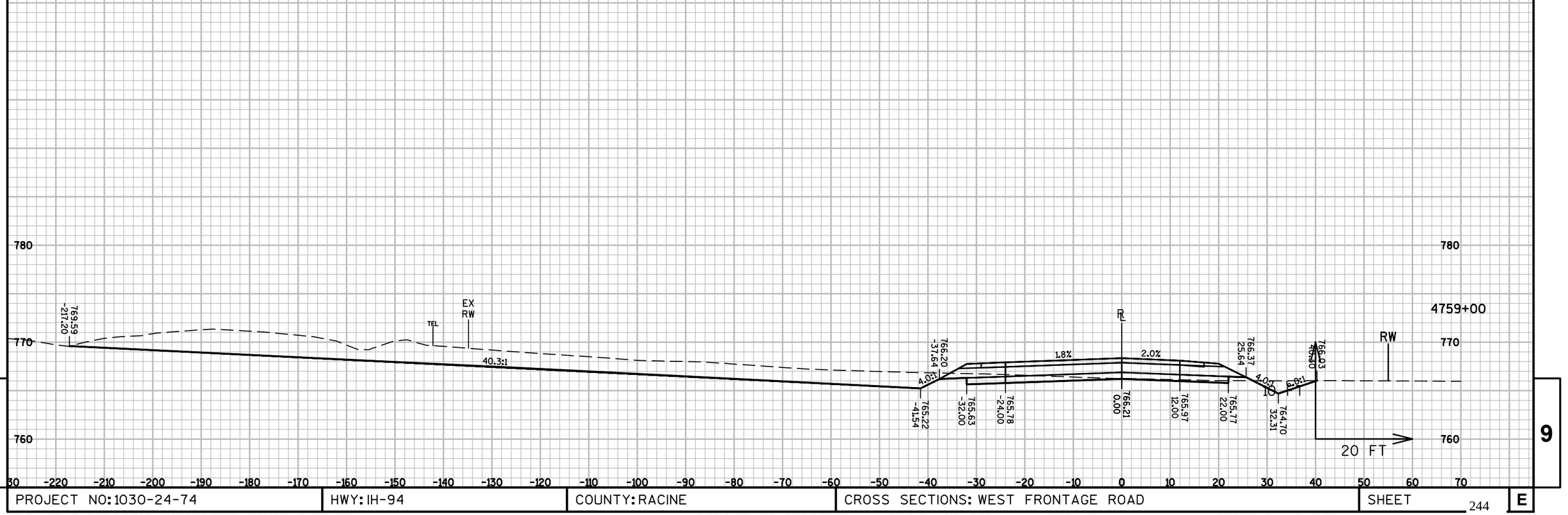
9

PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 243	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-NWFR.DWG
LAYOUT NAME - 10

PLOT DATE : 8/31/2016 3:39 PM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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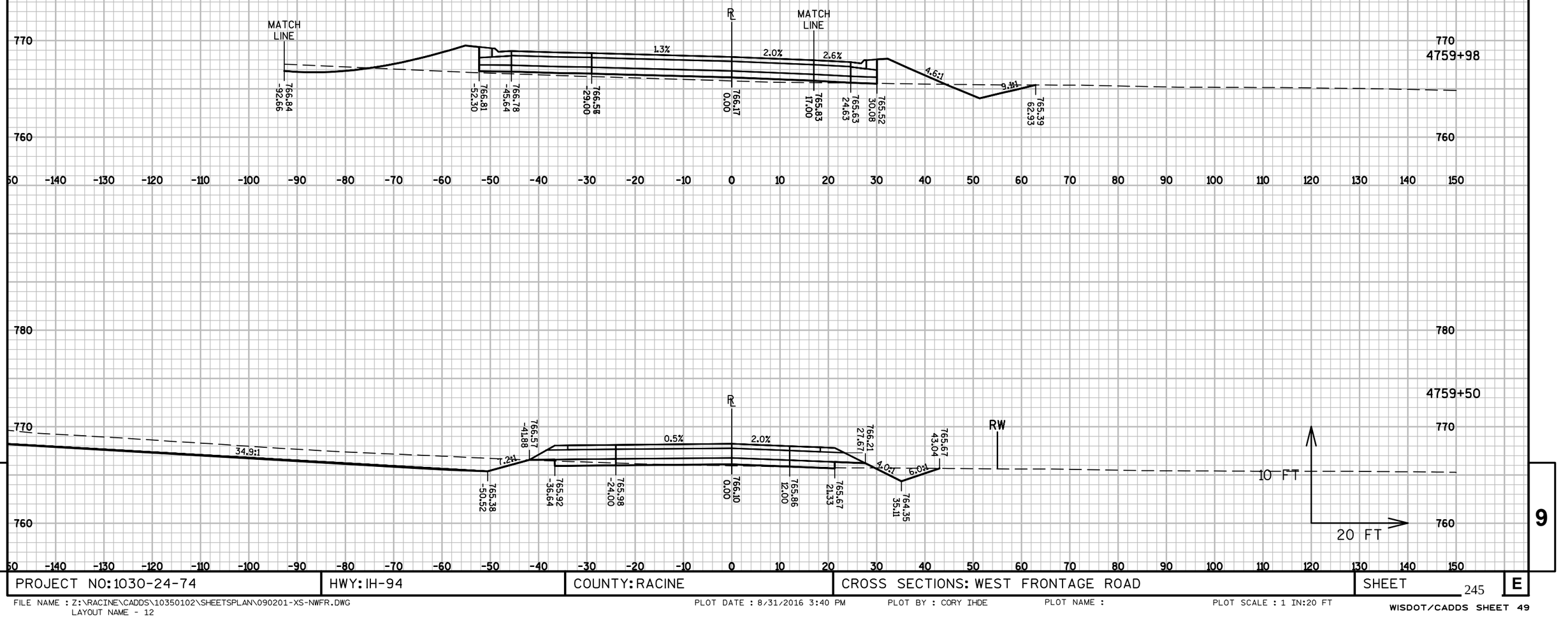
9

PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 244	E



9

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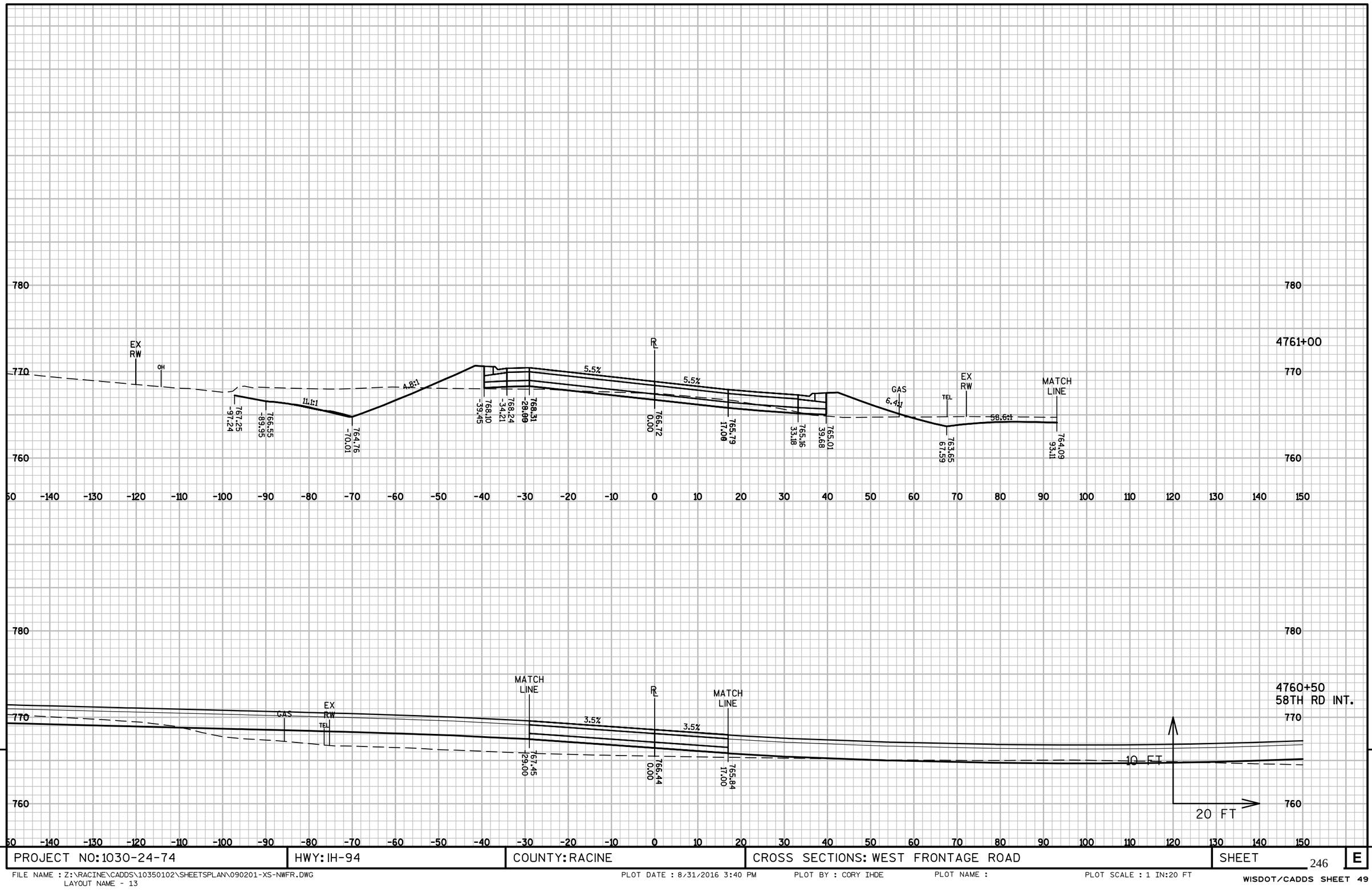
PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 245	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-NWFR.DWG
LAYOUT NAME - 12

PLOT DATE : 8/31/2016 3:40 PM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

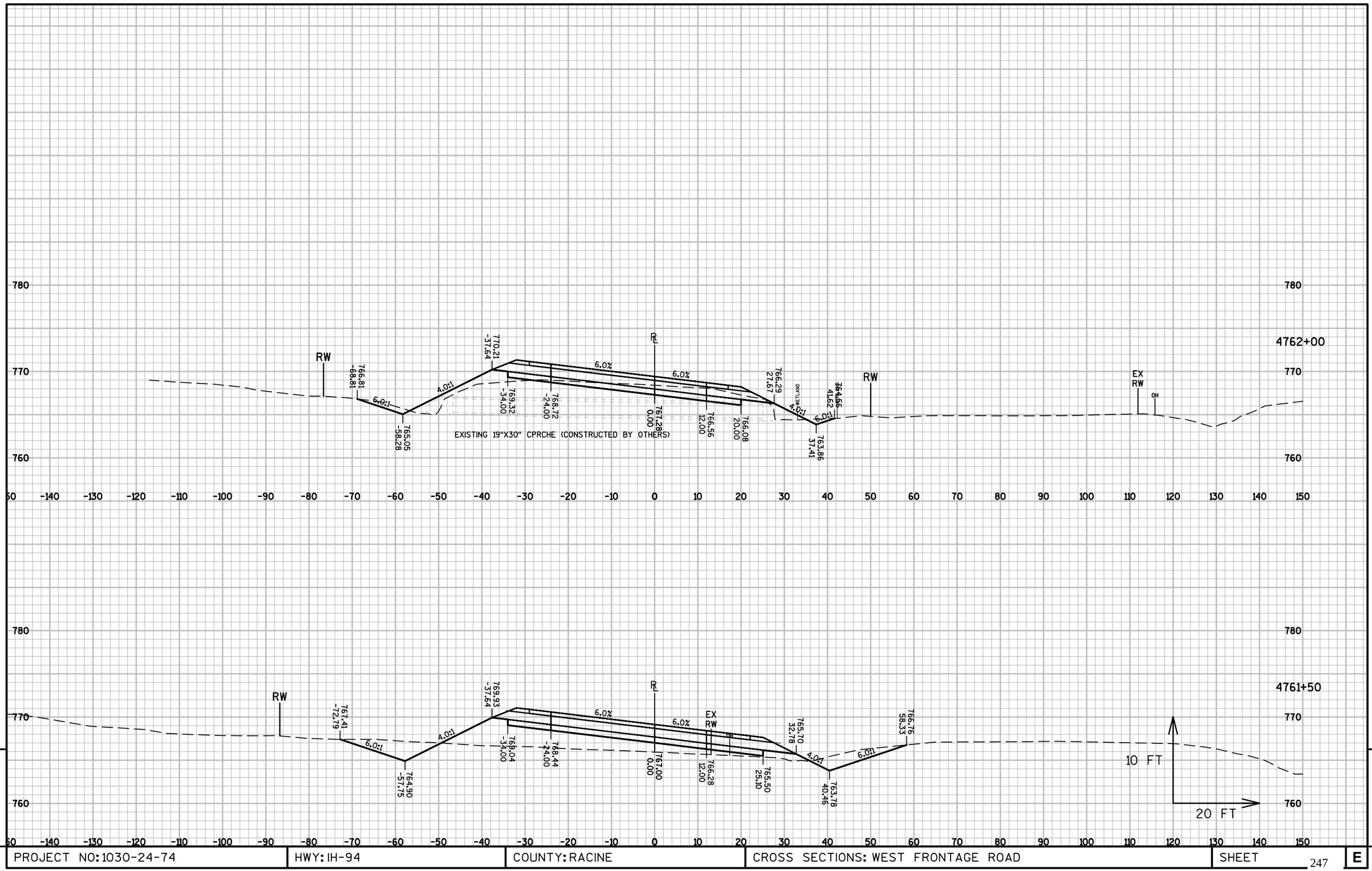


PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-NWFR.DWG
LAYOUT NAME - 13

PLOT DATE : 8/31/2016 3:40 PM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



9

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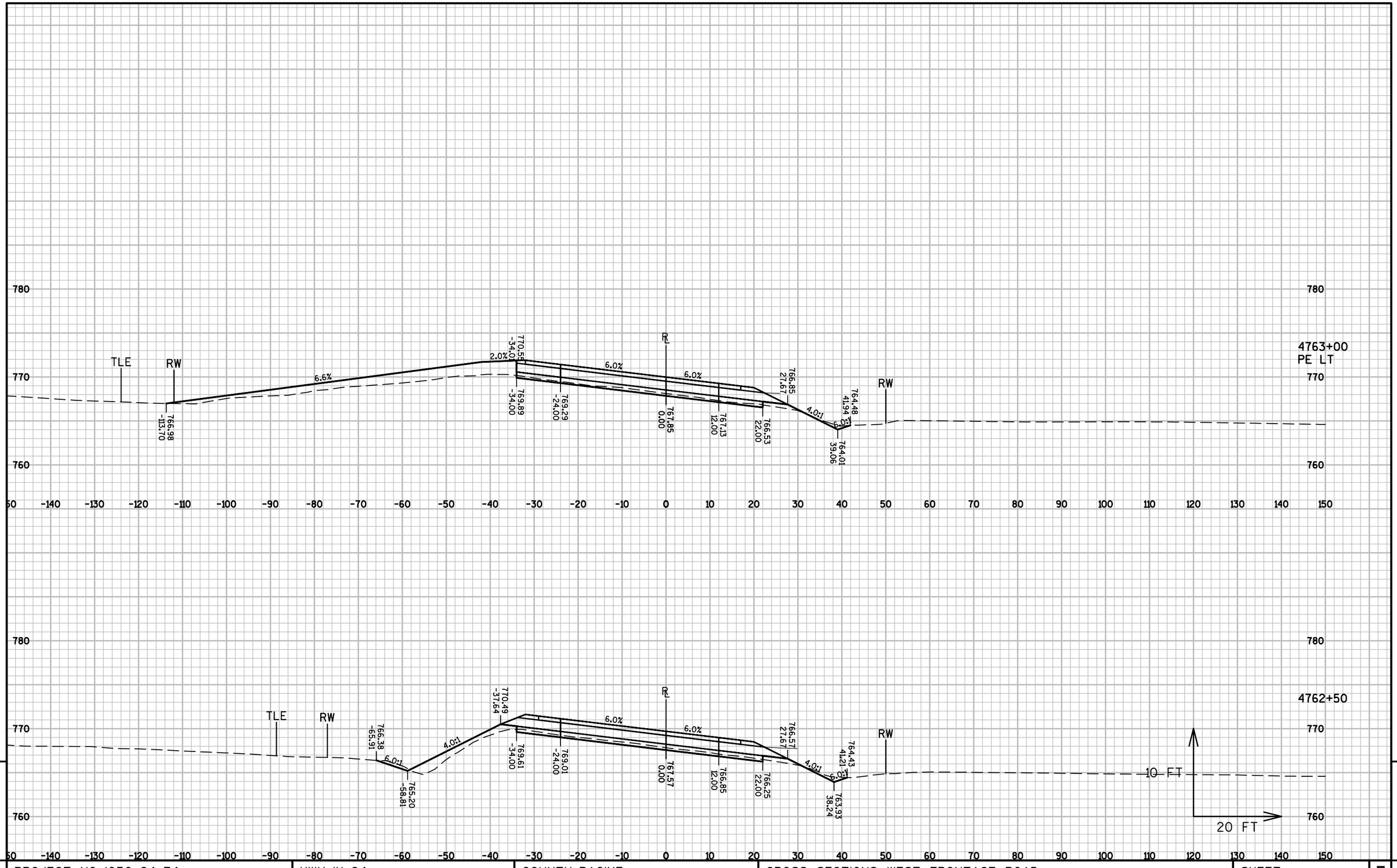
PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 247	E



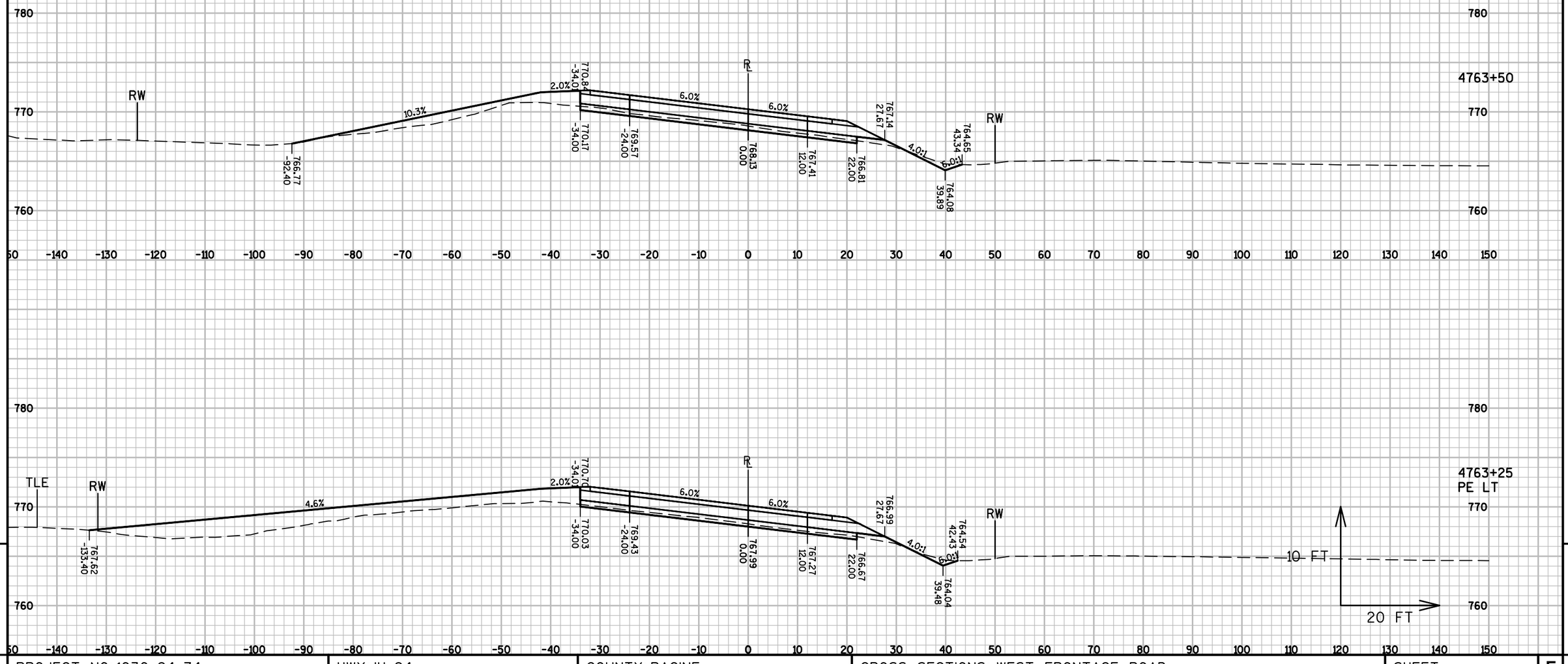
PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 248	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-NWFR.DWG
LAYOUT NAME - 15

PLOT DATE : 8/31/2016 3:41 PM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT

NOTE:

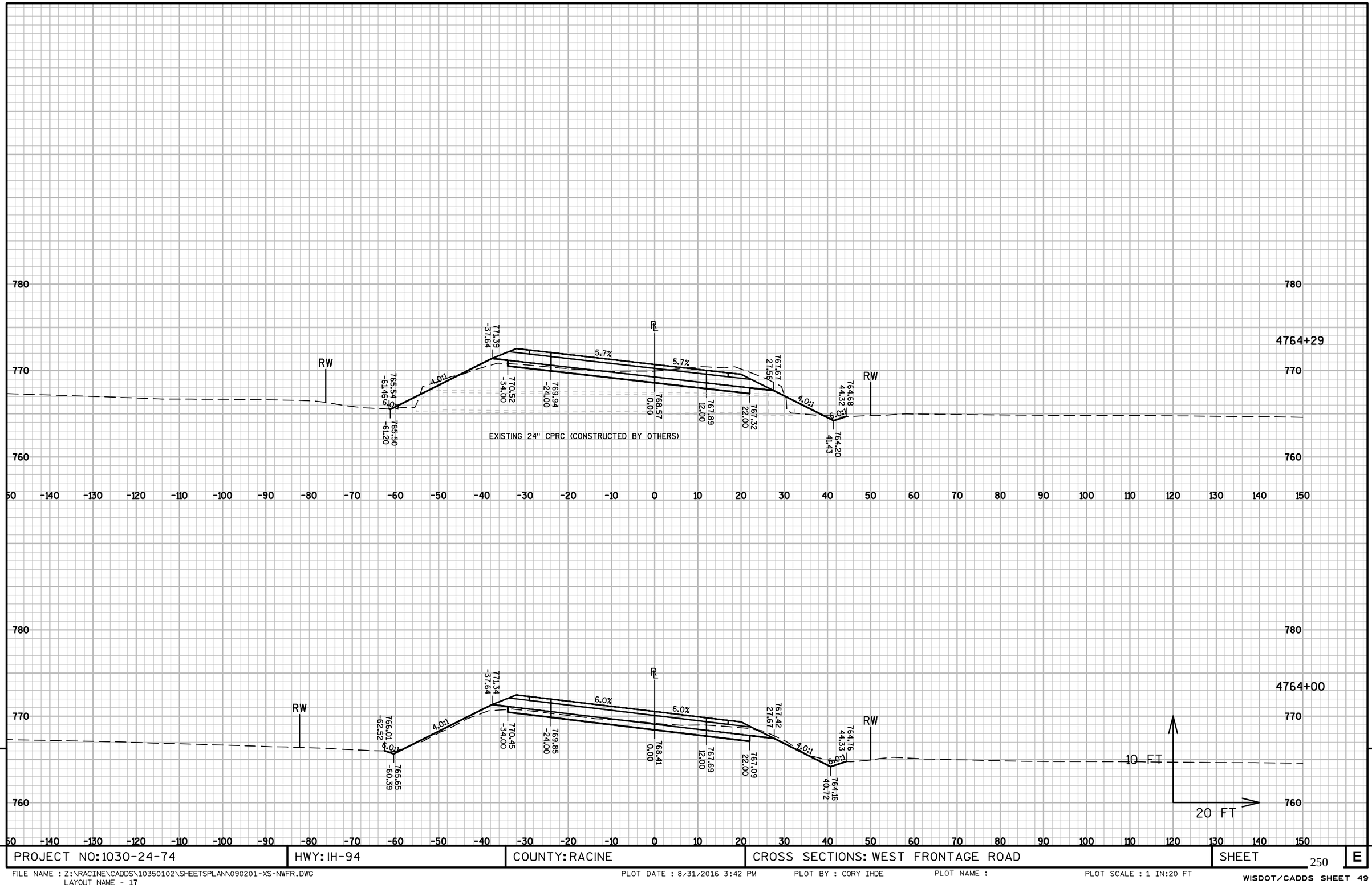
STA. 4762+00 TO 4772+50, THE FOLLOWING WAS COMPLETED BY OTHERS UNDER PROJECT 1030-24-76, FRONTAGE ROAD GRADING: ALL EARTHWORK, EBS, DRAINAGE, AND RESTORATION.



PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 249 E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-NWFR.DWG
LAYOUT NAME - 16

PLOT DATE : 8/31/2016 3:41 PM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT



9

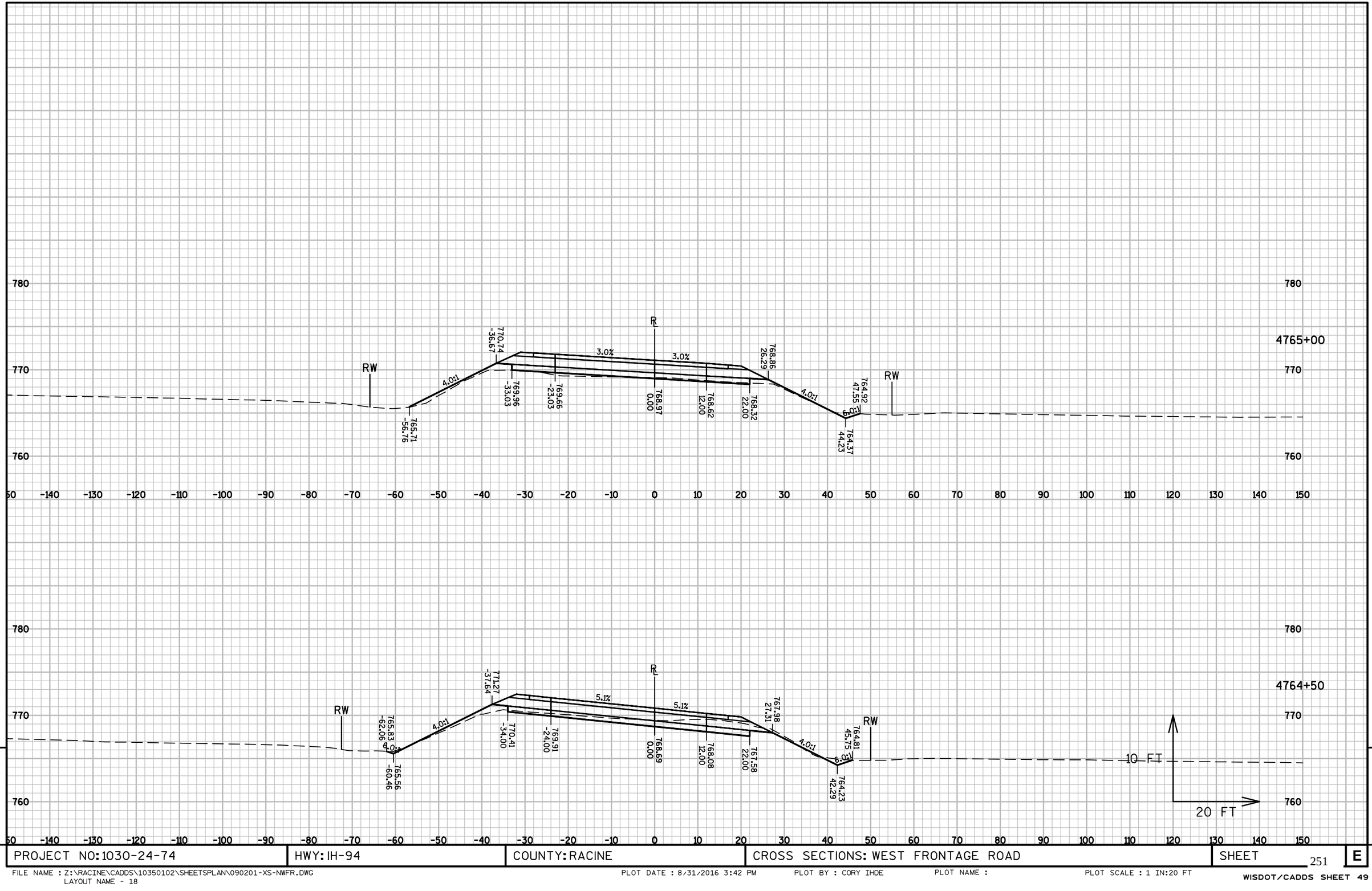
9

PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 250	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-NWFR.DWG
LAYOUT NAME - 17

PLOT DATE : 8/31/2016 3:42 PM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



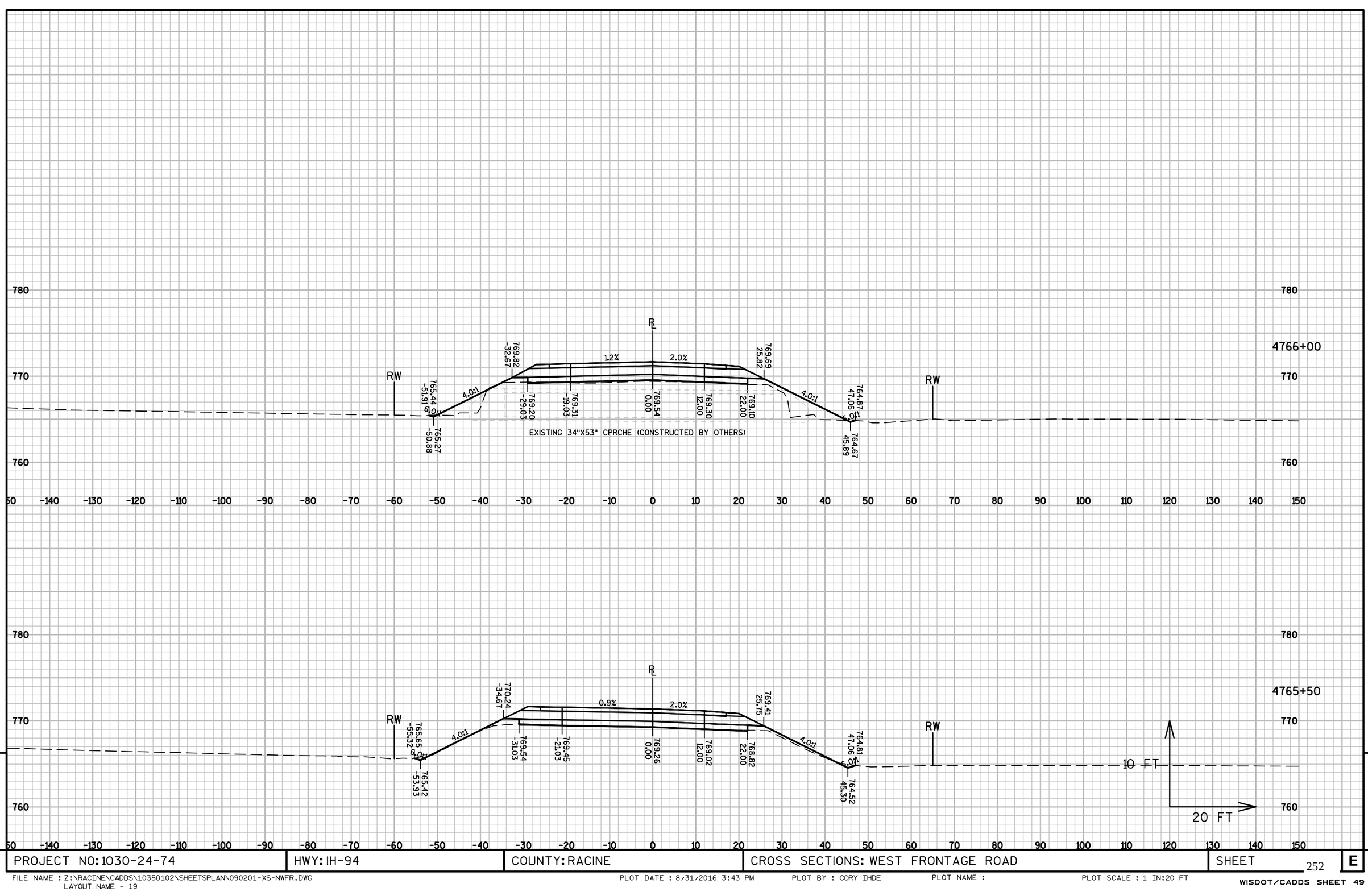
9

9

PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 251	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-NWFR.DWG
LAYOUT NAME - 18

PLOT DATE : 8/31/2016 3:42 PM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT



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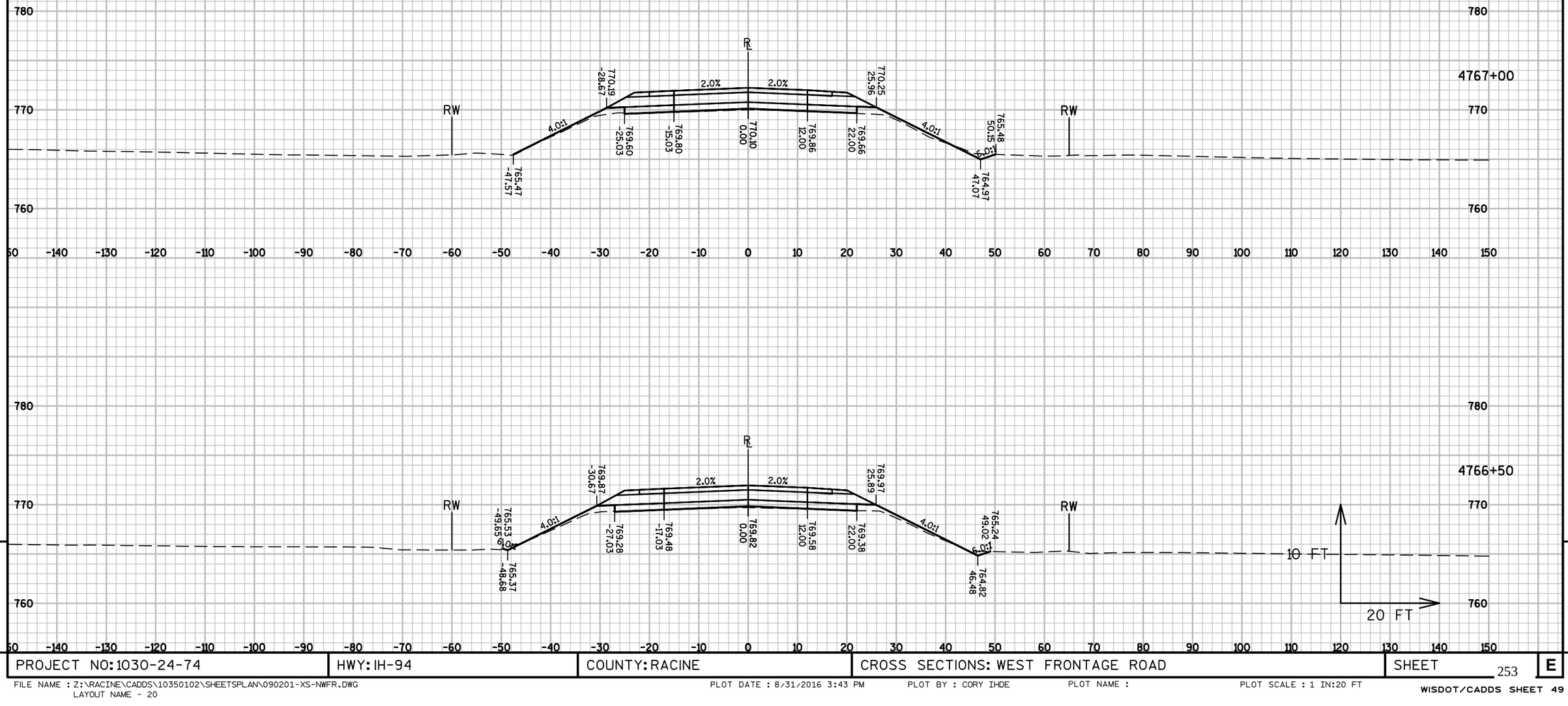
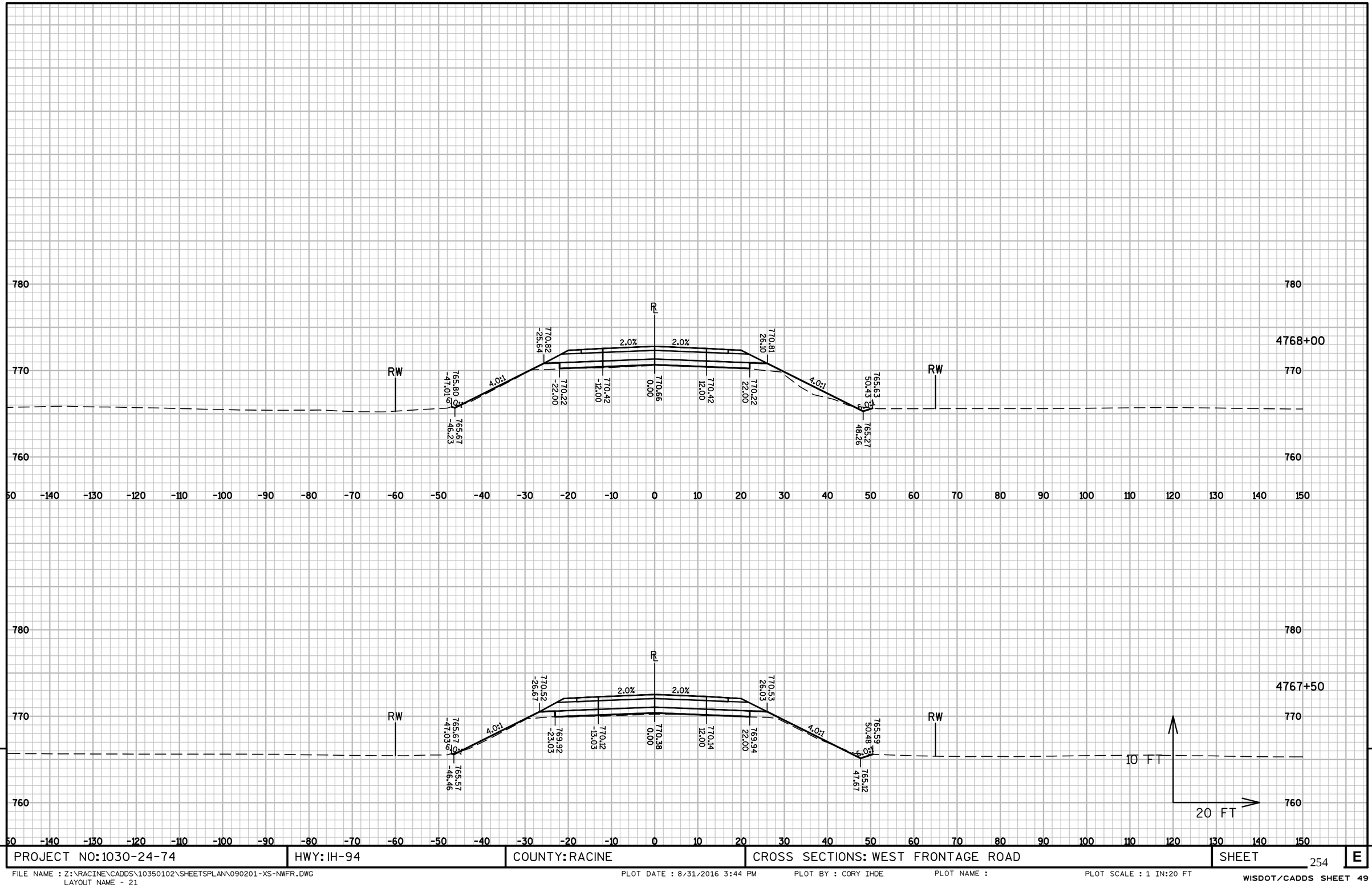
PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 252	E



PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 253 E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-NWFR.DWG
LAYOUT NAME - 20

PLOT DATE : 8/31/2016 3:43 PM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT



9

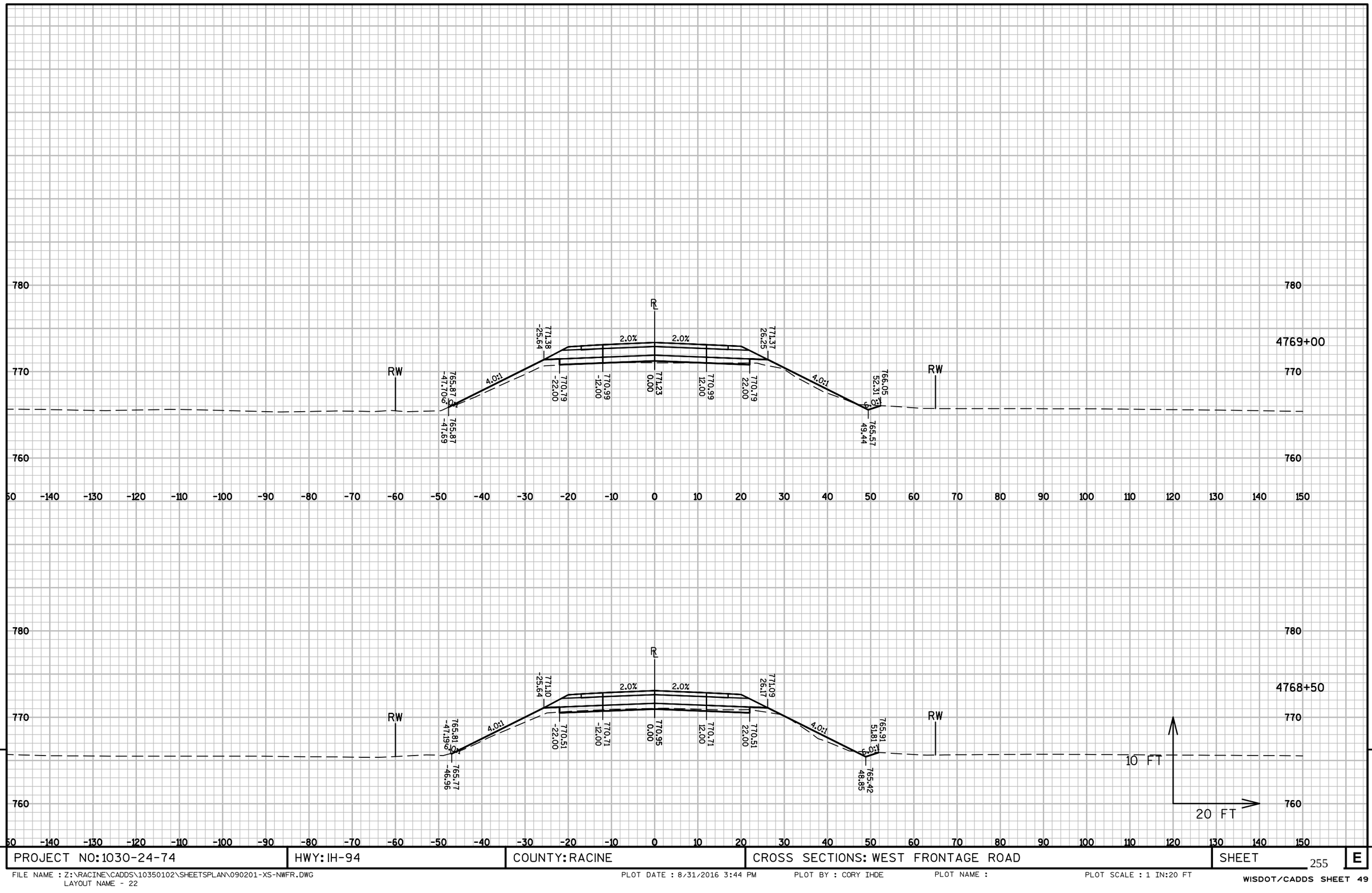
9

PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 254	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-NWFR.DWG
LAYOUT NAME - 21

PLOT DATE : 8/31/2016 3:44 PM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT

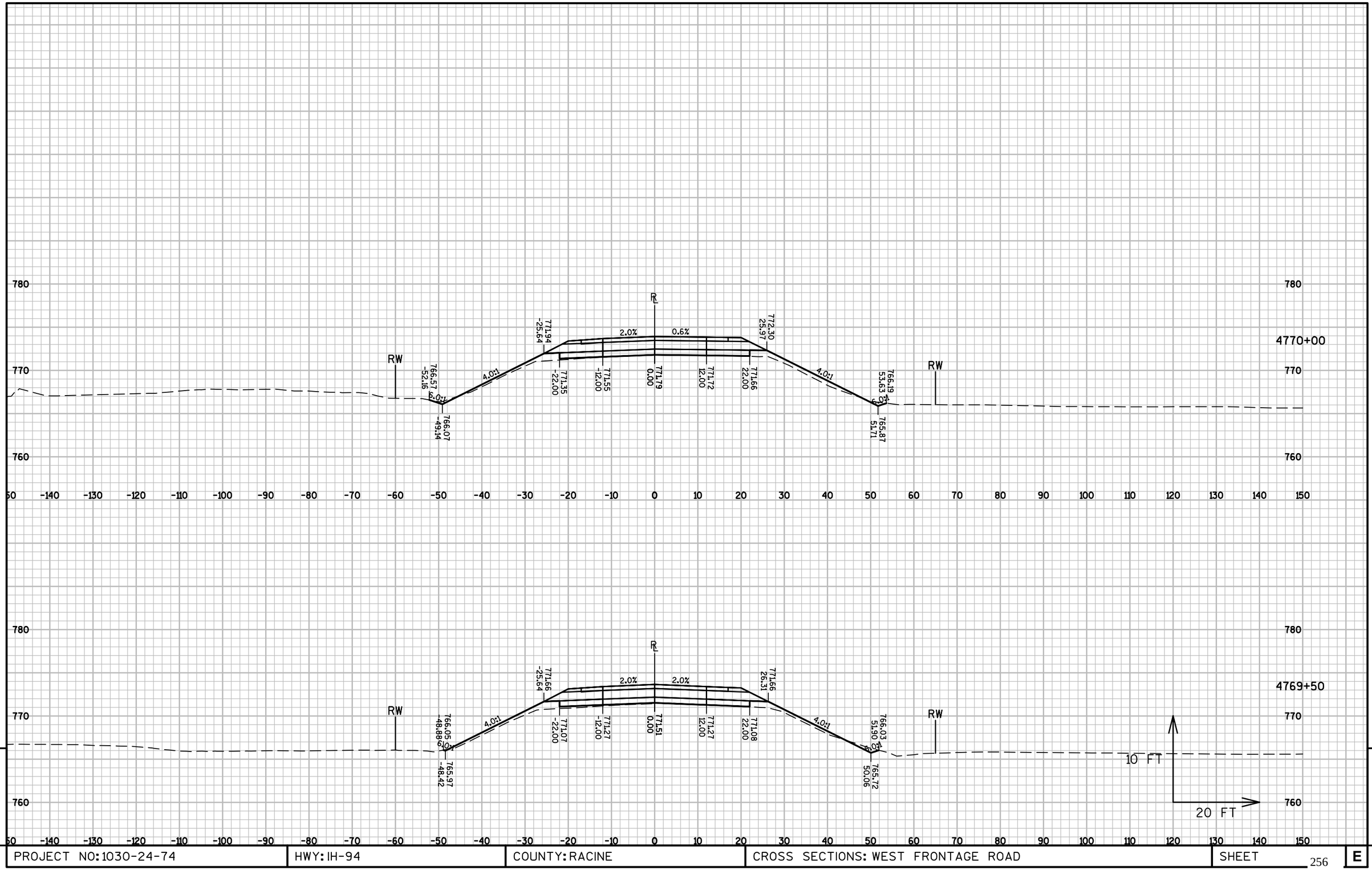
WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 255	E

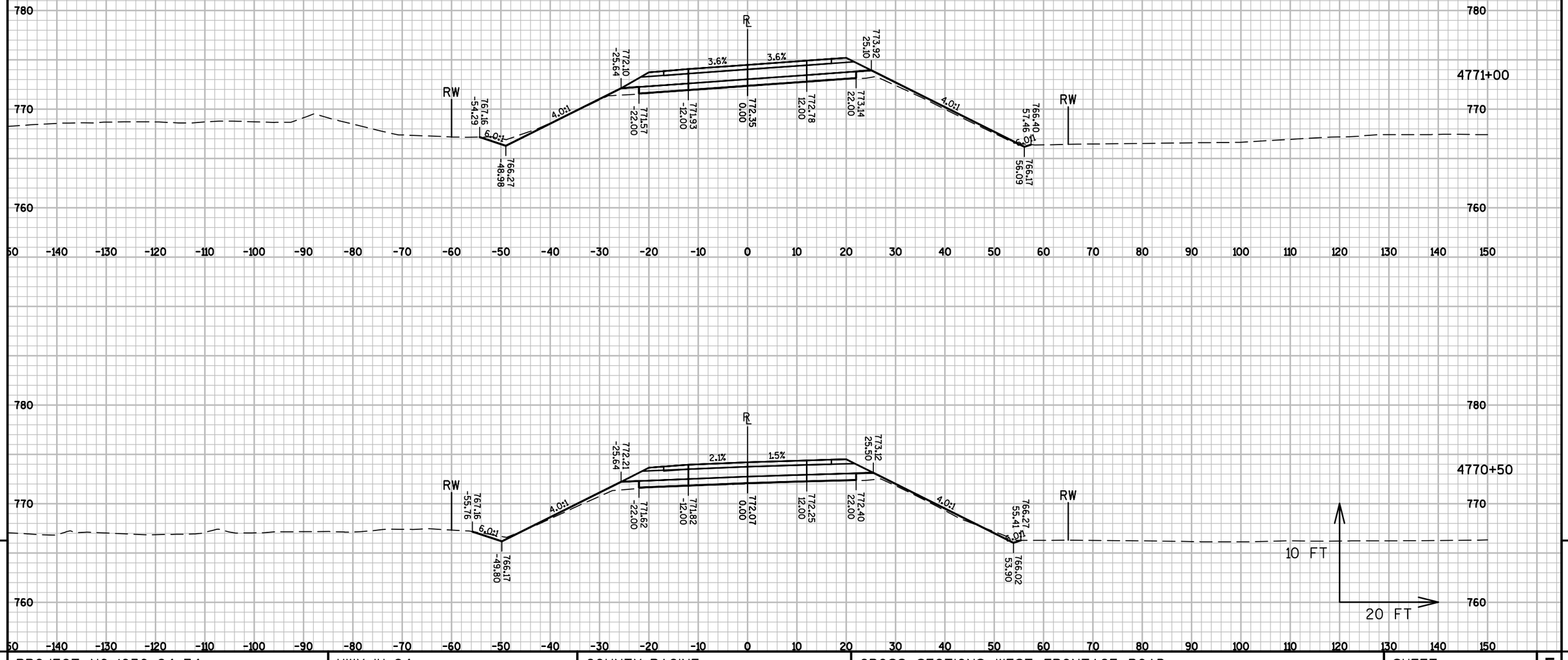


PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 256	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-NWFR.DWG
LAYOUT NAME - 23

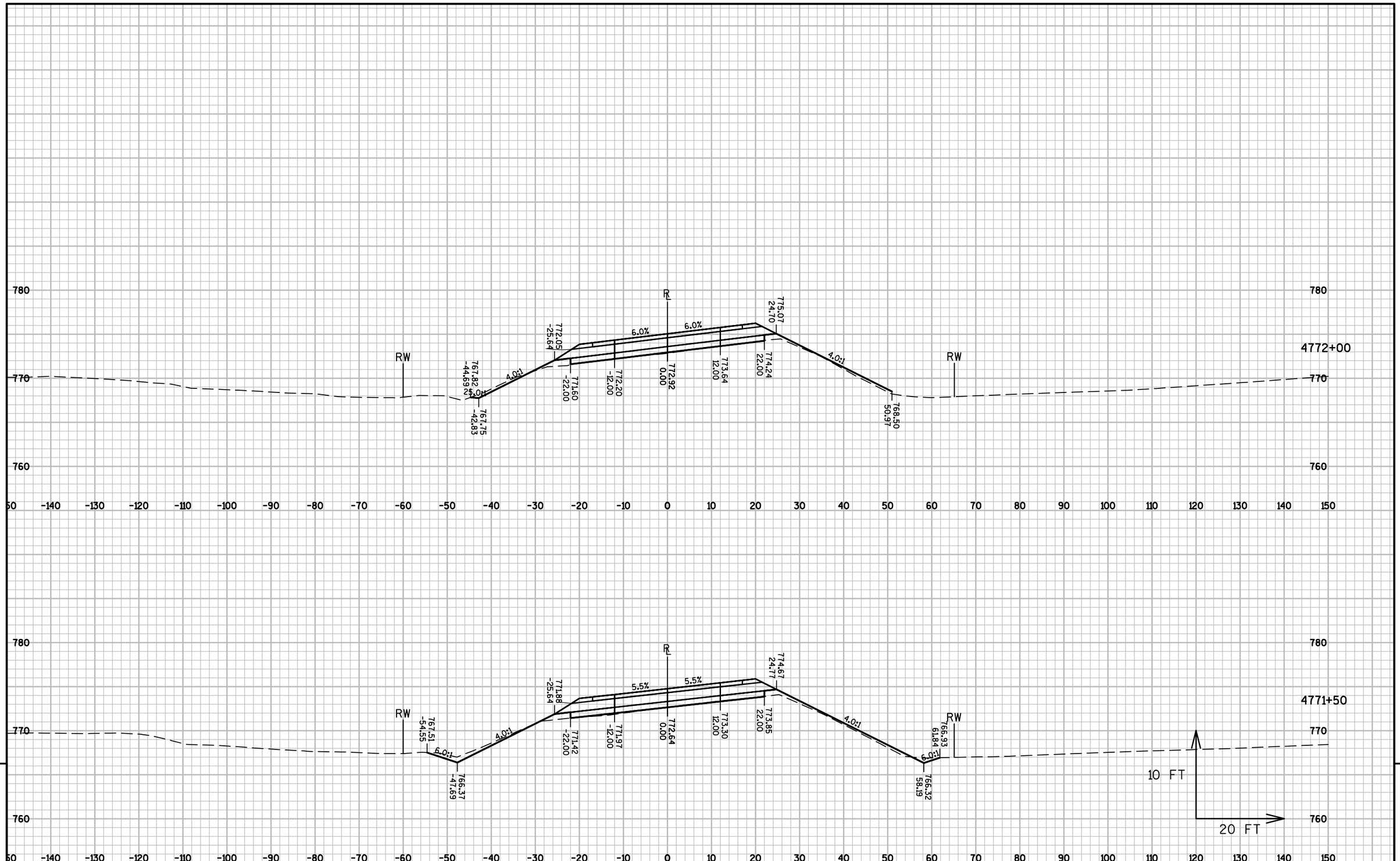
PLOT DATE : 8/31/2016 3:44 PM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



9 9

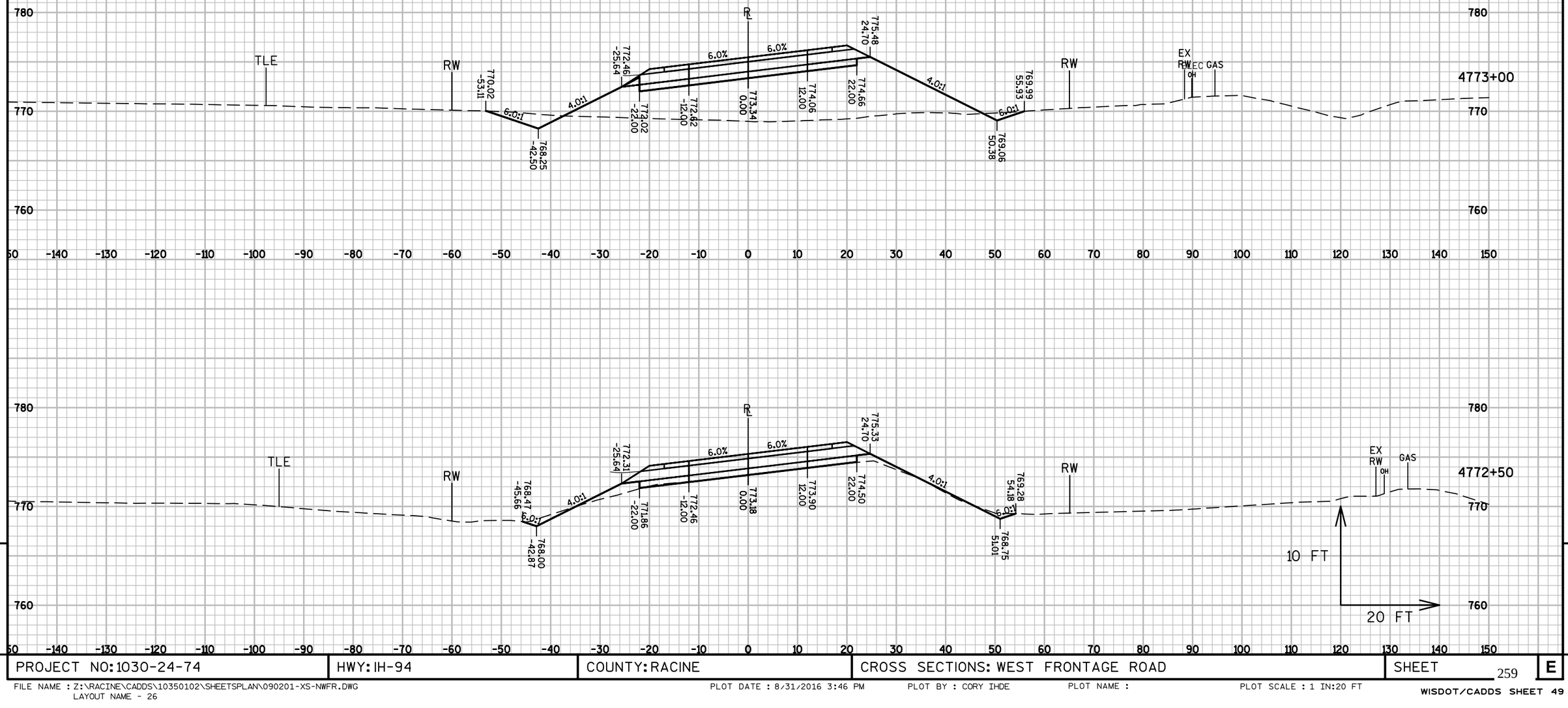
PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 257	E



PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 258 E

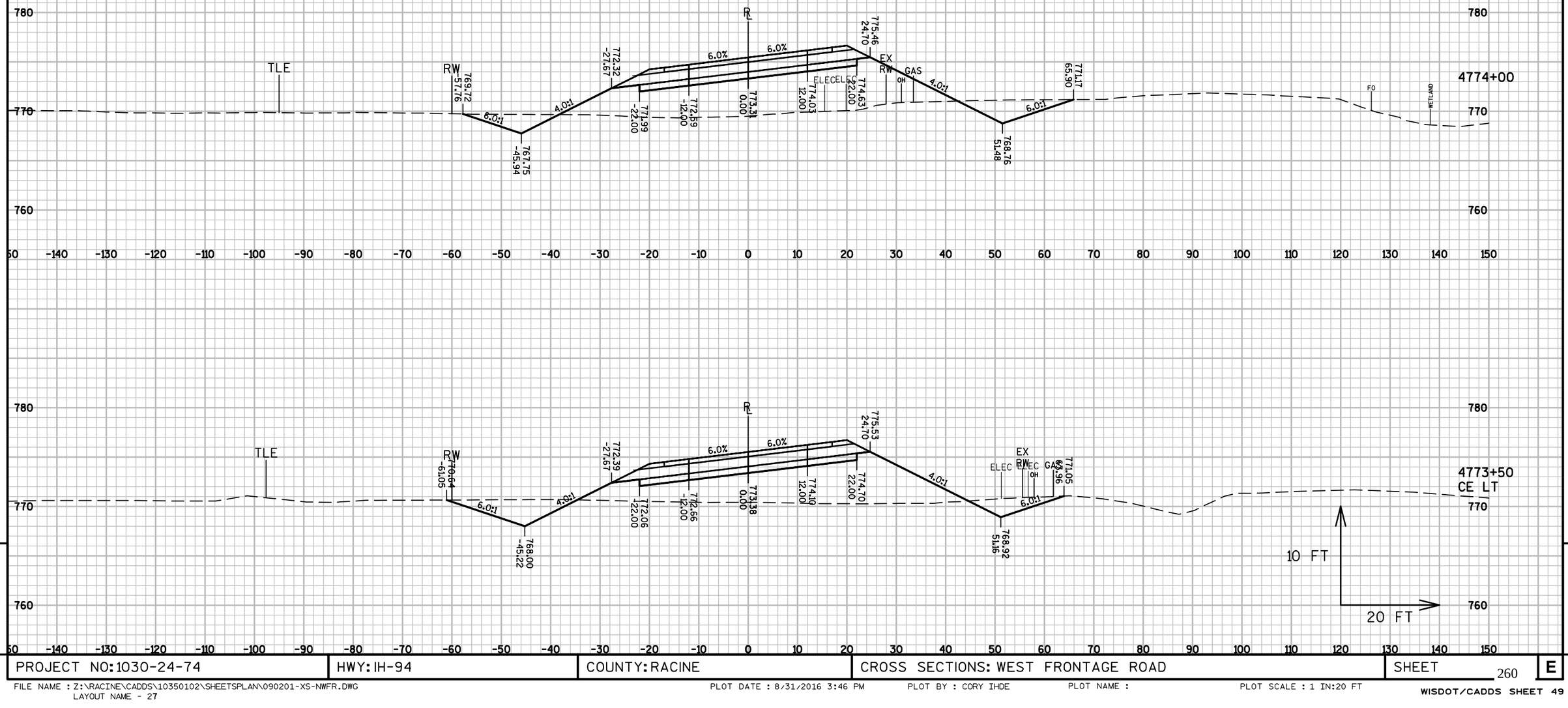
FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-NWFR.DWG
LAYOUT NAME - 25

PLOT DATE : 8/31/2016 3:45 PM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT



9

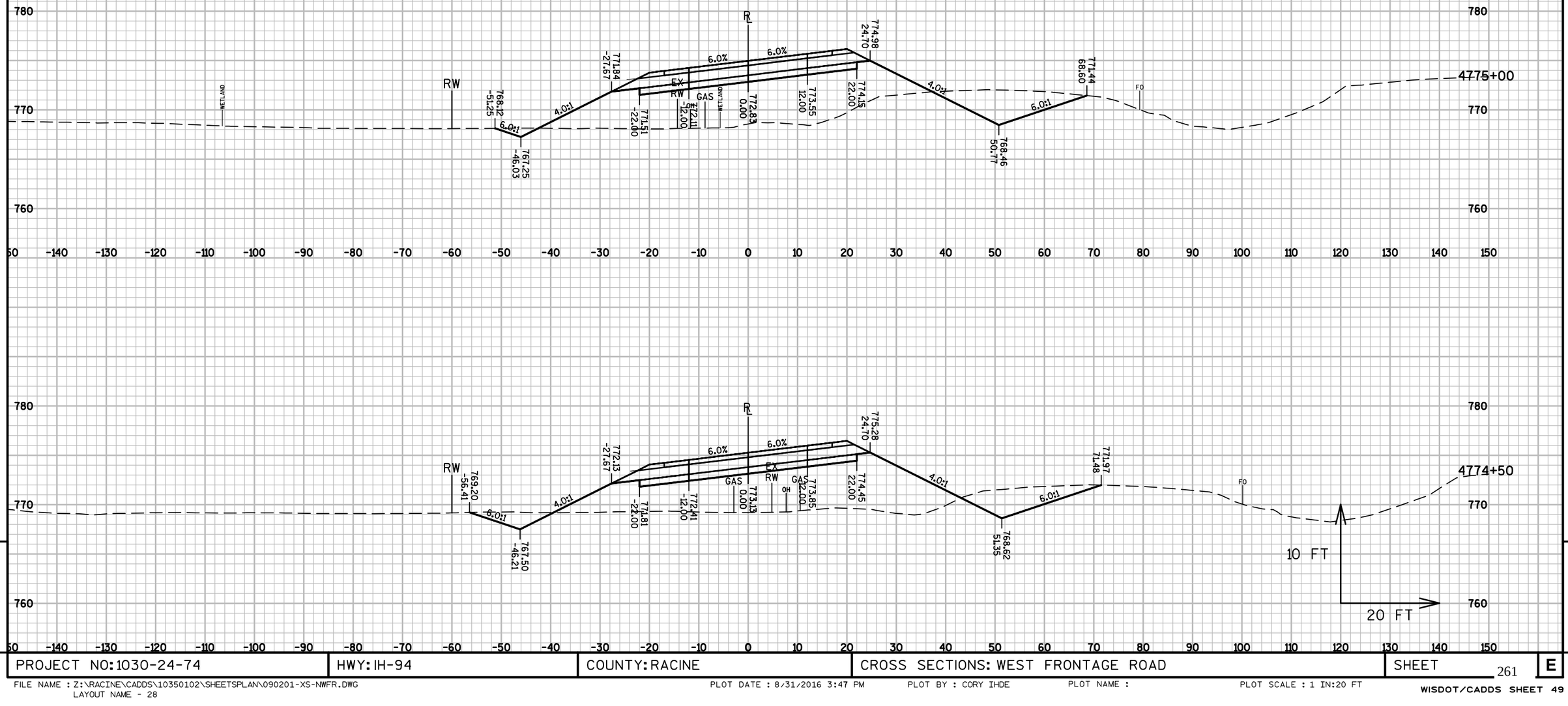
PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 259	E



PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 260	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-NWFR.DWG
LAYOUT NAME - 27

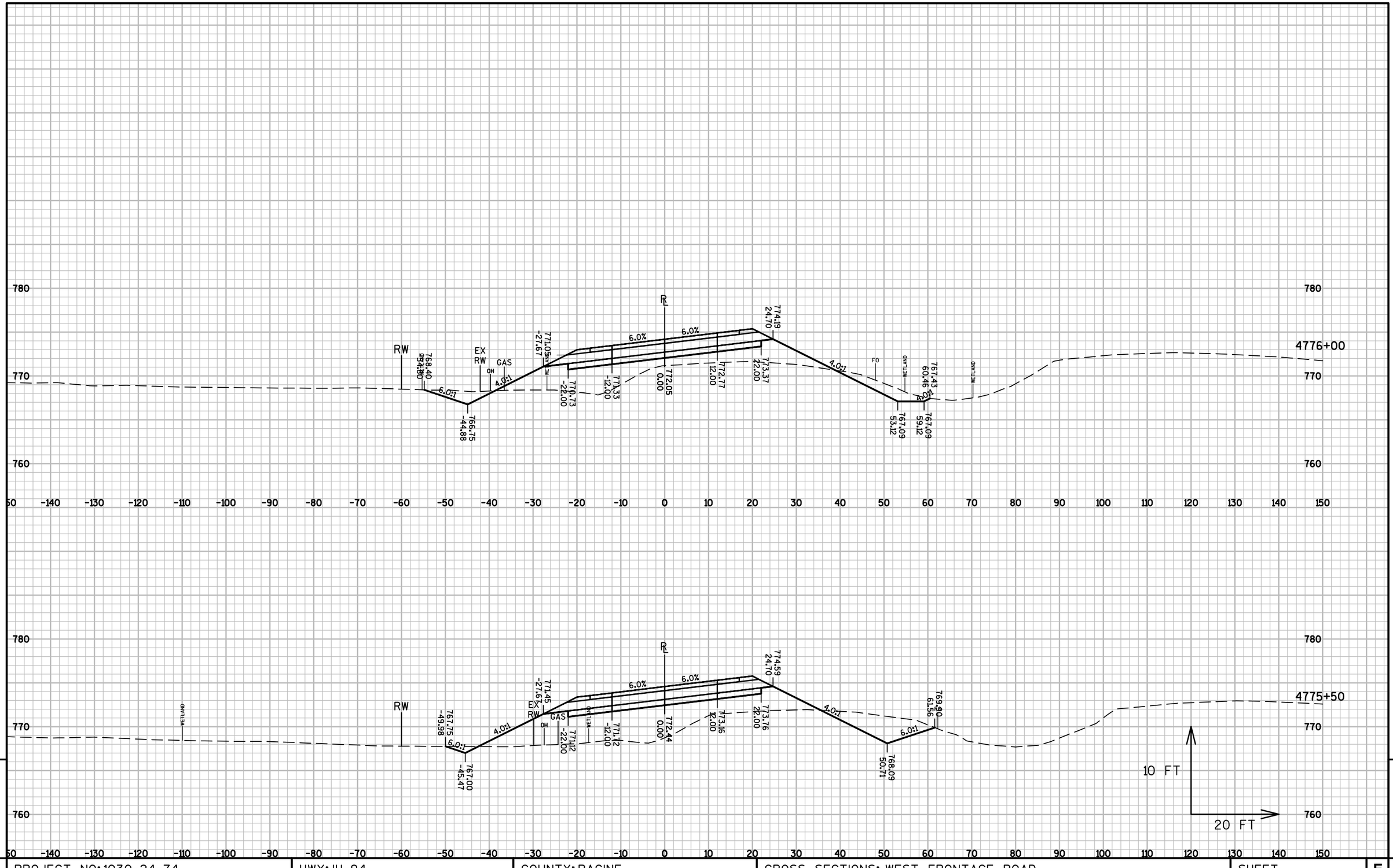
PLOT DATE : 8/31/2016 3:46 PM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT



9

9

PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 261	E



9

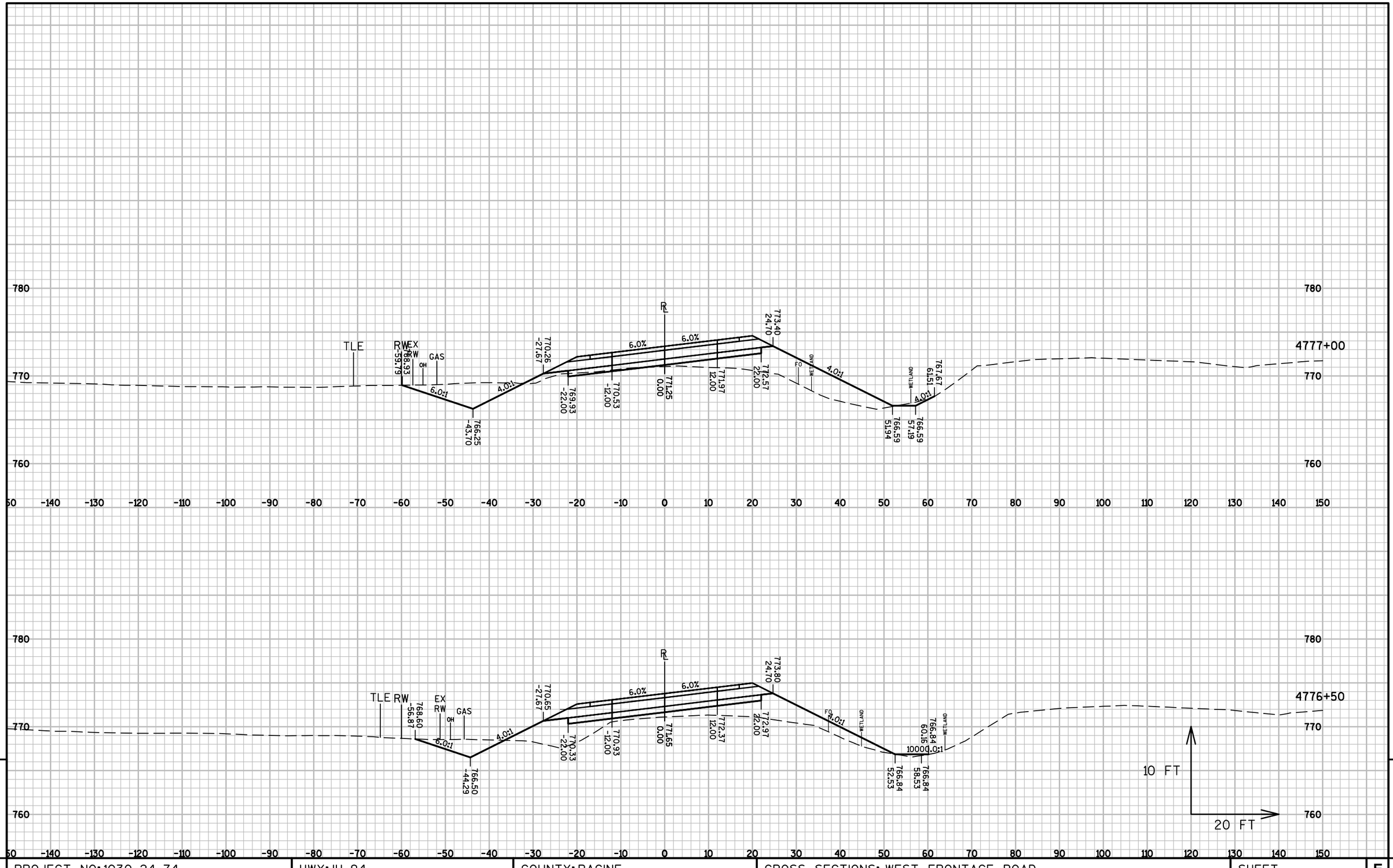
9

PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-NWFR.DWG
LAYOUT NAME - 29

PLOT DATE : 8/31/2016 3:47 PM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

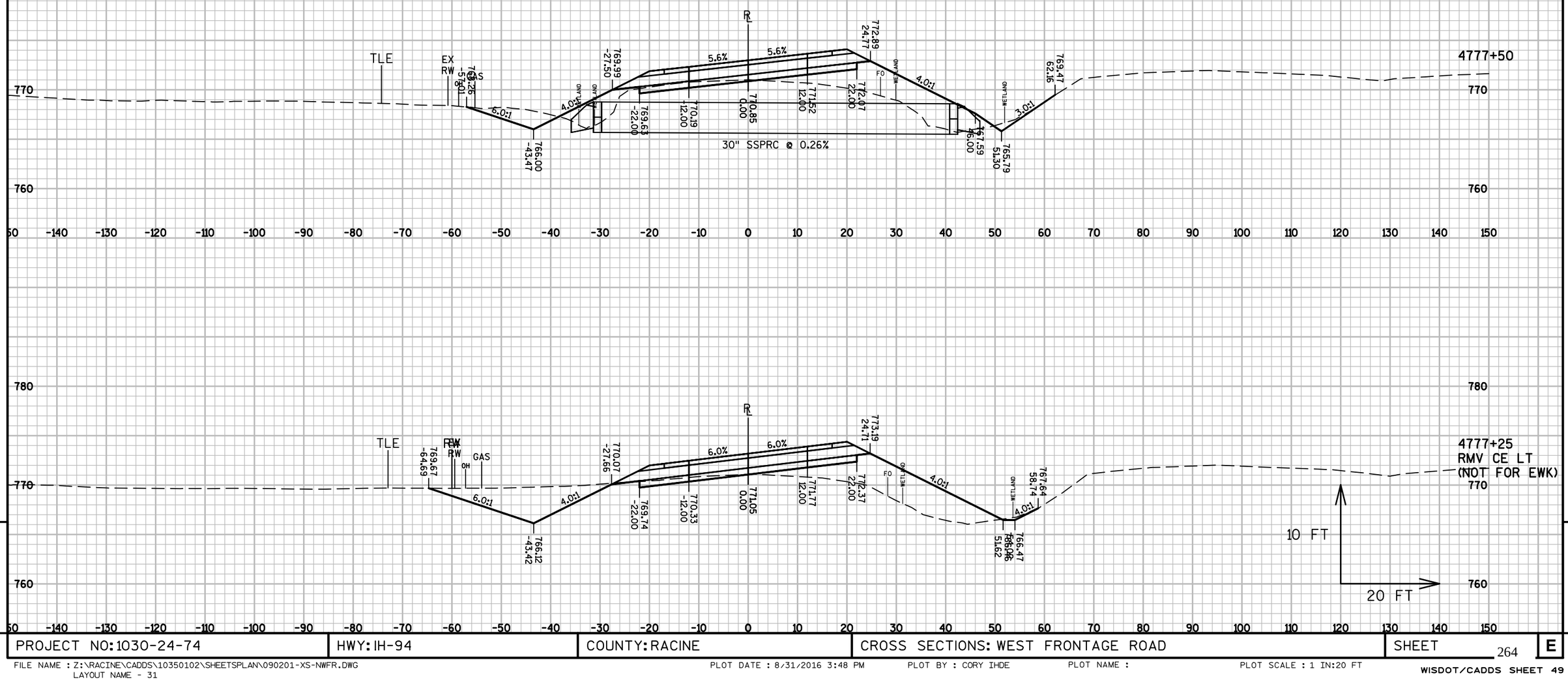


9 9

PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-NWFR.DWG
LAYOUT NAME - 30

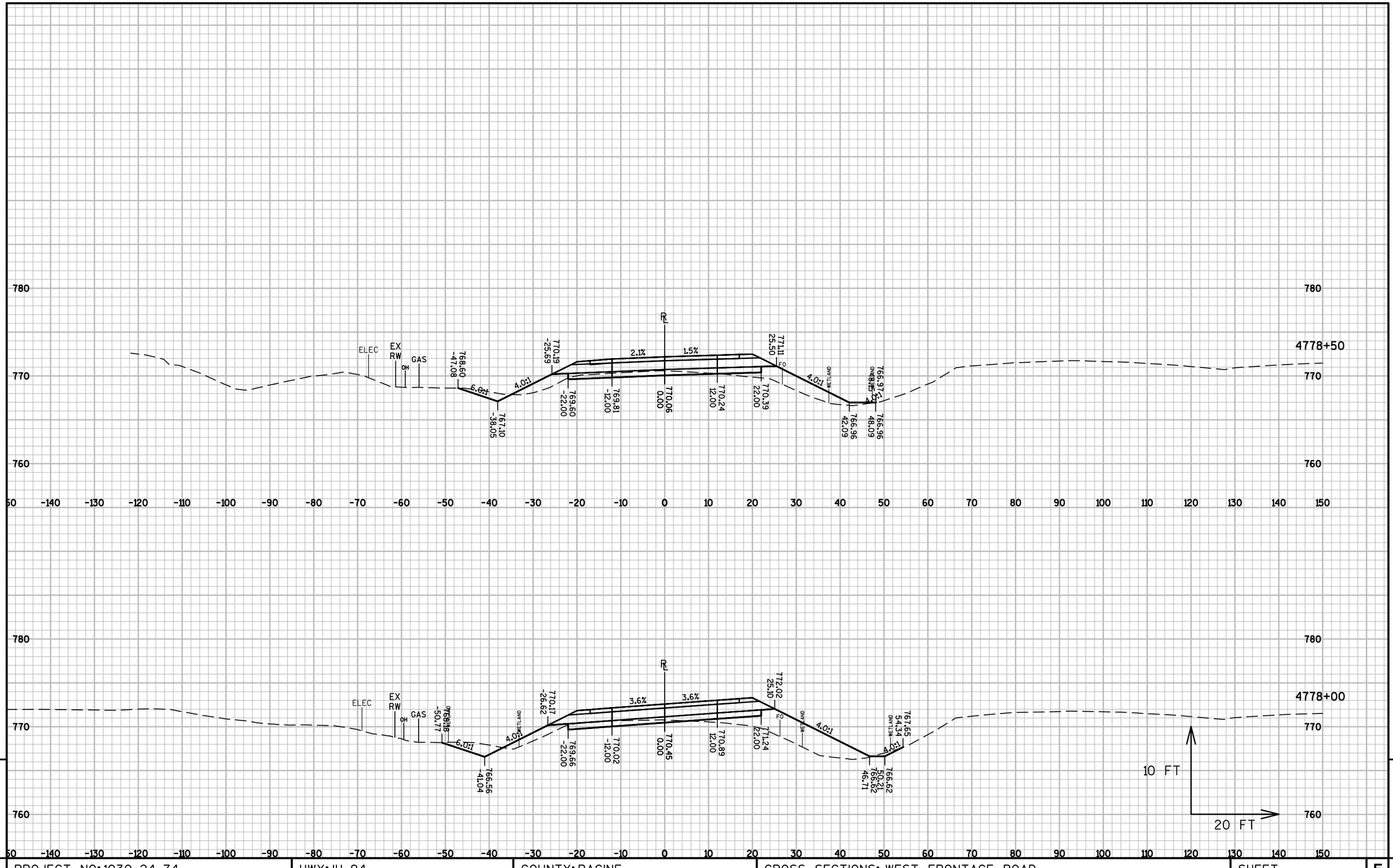
PLOT DATE : 8/31/2016 3:48 PM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT



PROJECT NO: 1030-24-74 | HWY: IH-94 | COUNTY: RACINE | CROSS SECTIONS: WEST FRONTAGE ROAD | SHEET 264 | E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-NWFR.DWG
LAYOUT NAME - 31

PLOT DATE : 8/31/2016 3:48 PM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT

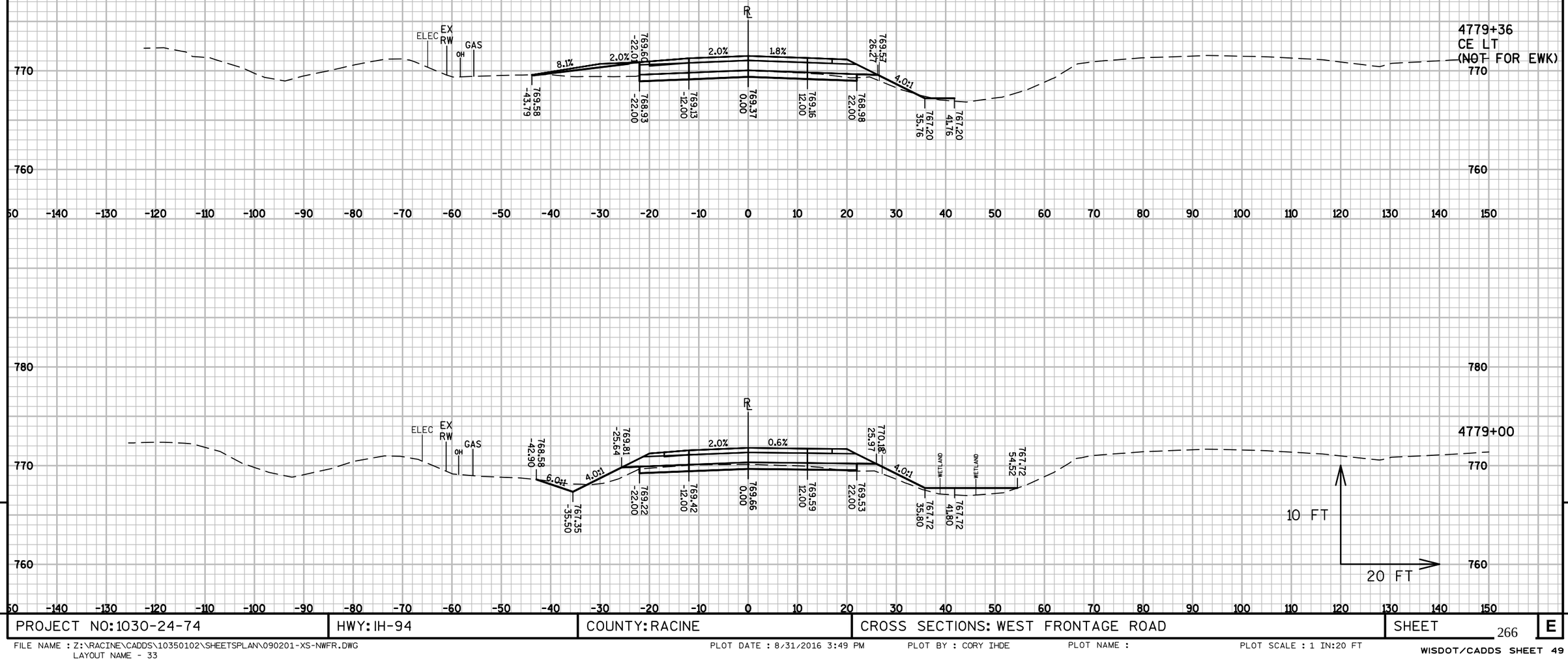


PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-NWFR.DWG
LAYOUT NAME - 32

PLOT DATE : 8/31/2016 3:48 PM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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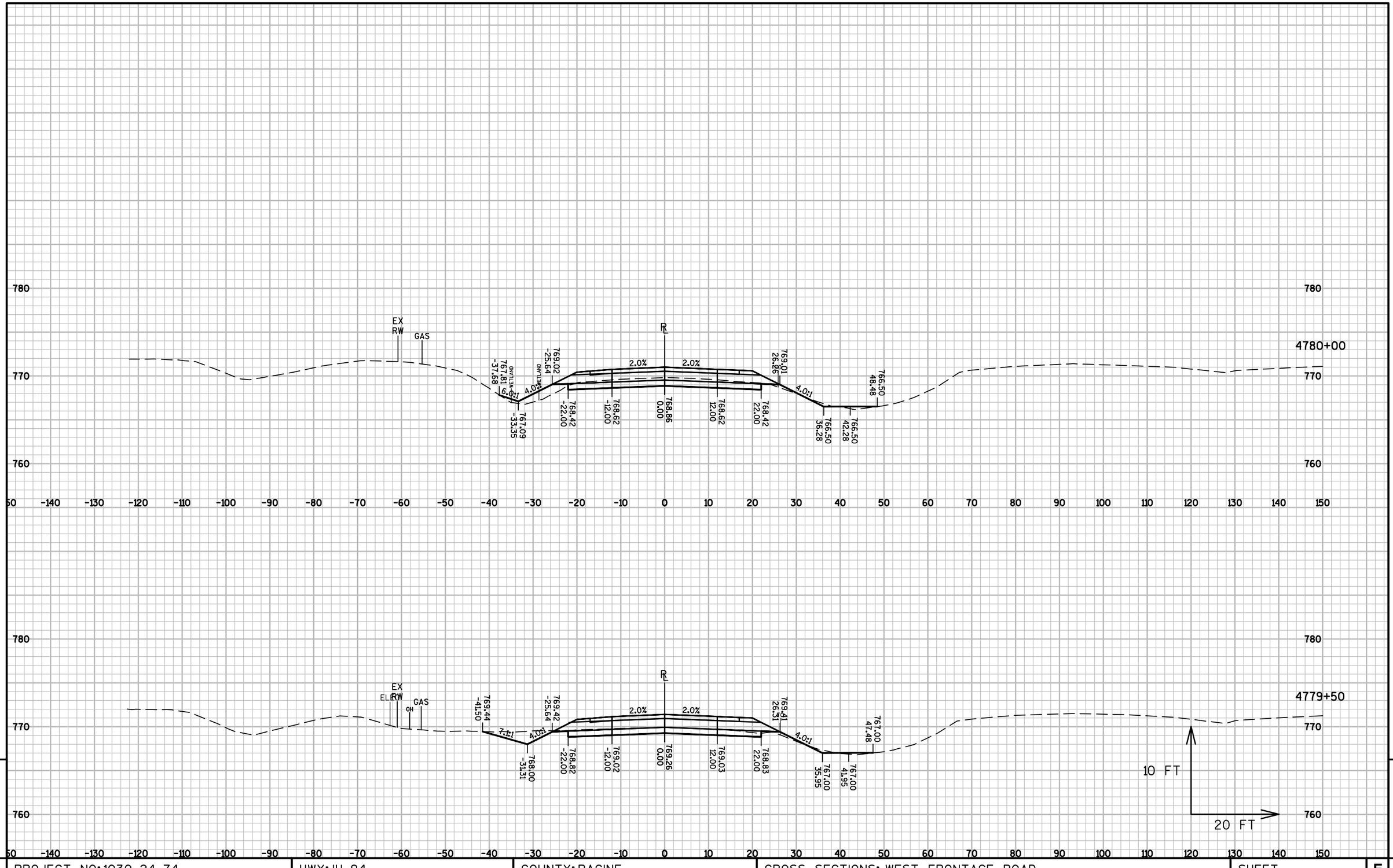
PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 266 E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-NWFR.DWG
LAYOUT NAME - 33

PLOT DATE : 8/31/2016 3:49 PM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT



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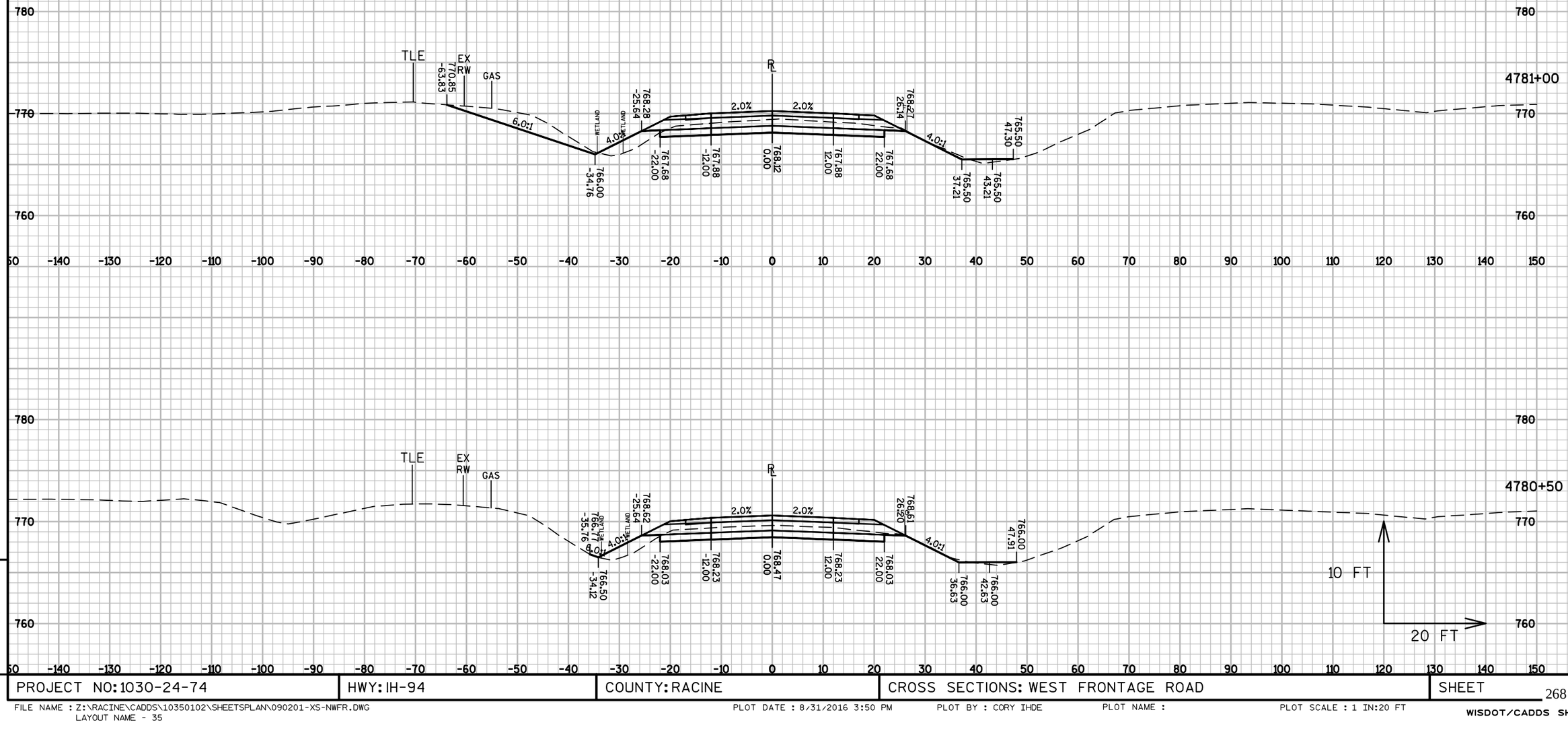
PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-NWFR.DWG
LAYOUT NAME - 34

PLOT DATE : 8/31/2016 3:49 PM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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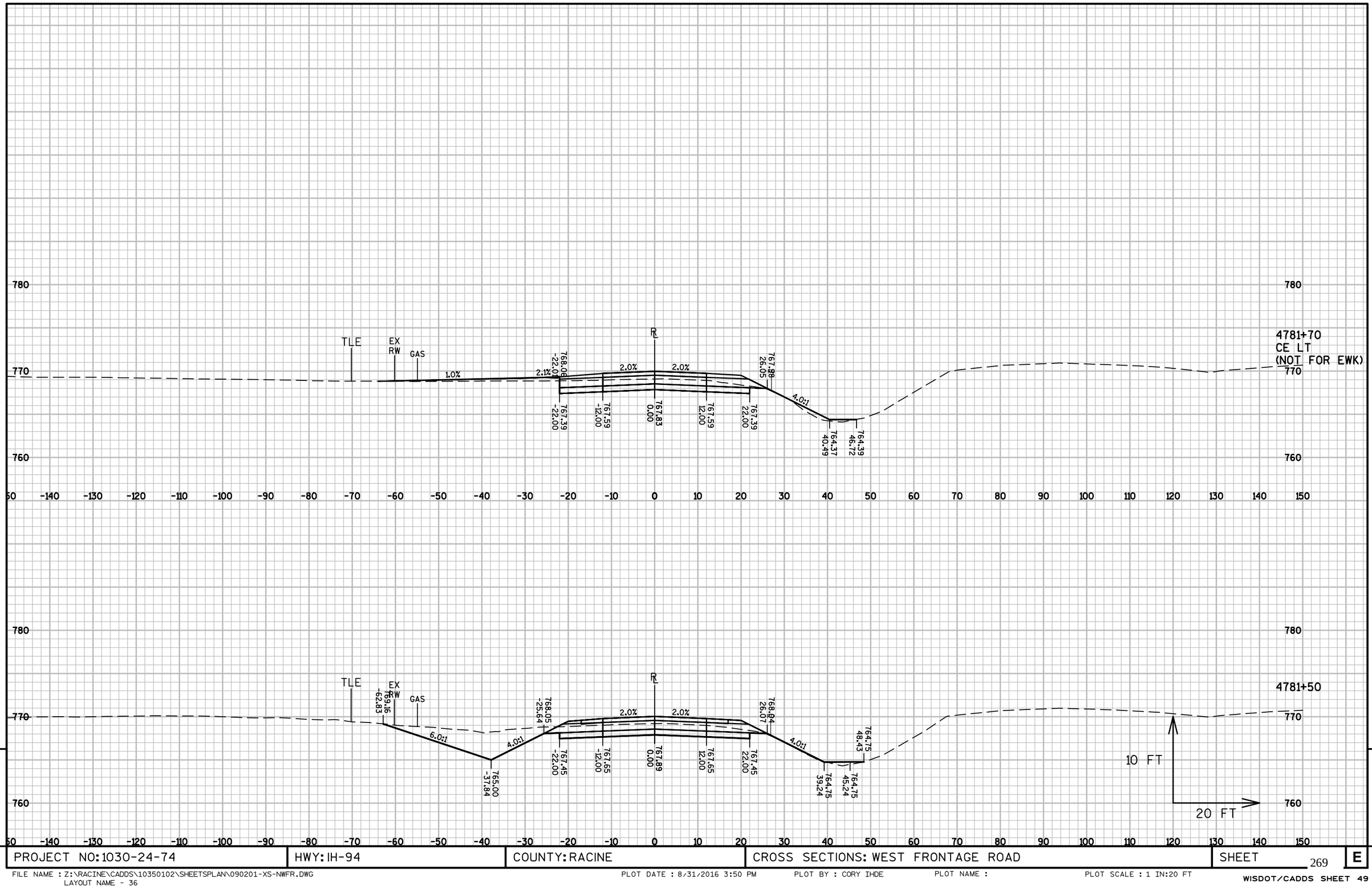
PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 268	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-NWFR.DWG
LAYOUT NAME - 35

PLOT DATE : 8/31/2016 3:50 PM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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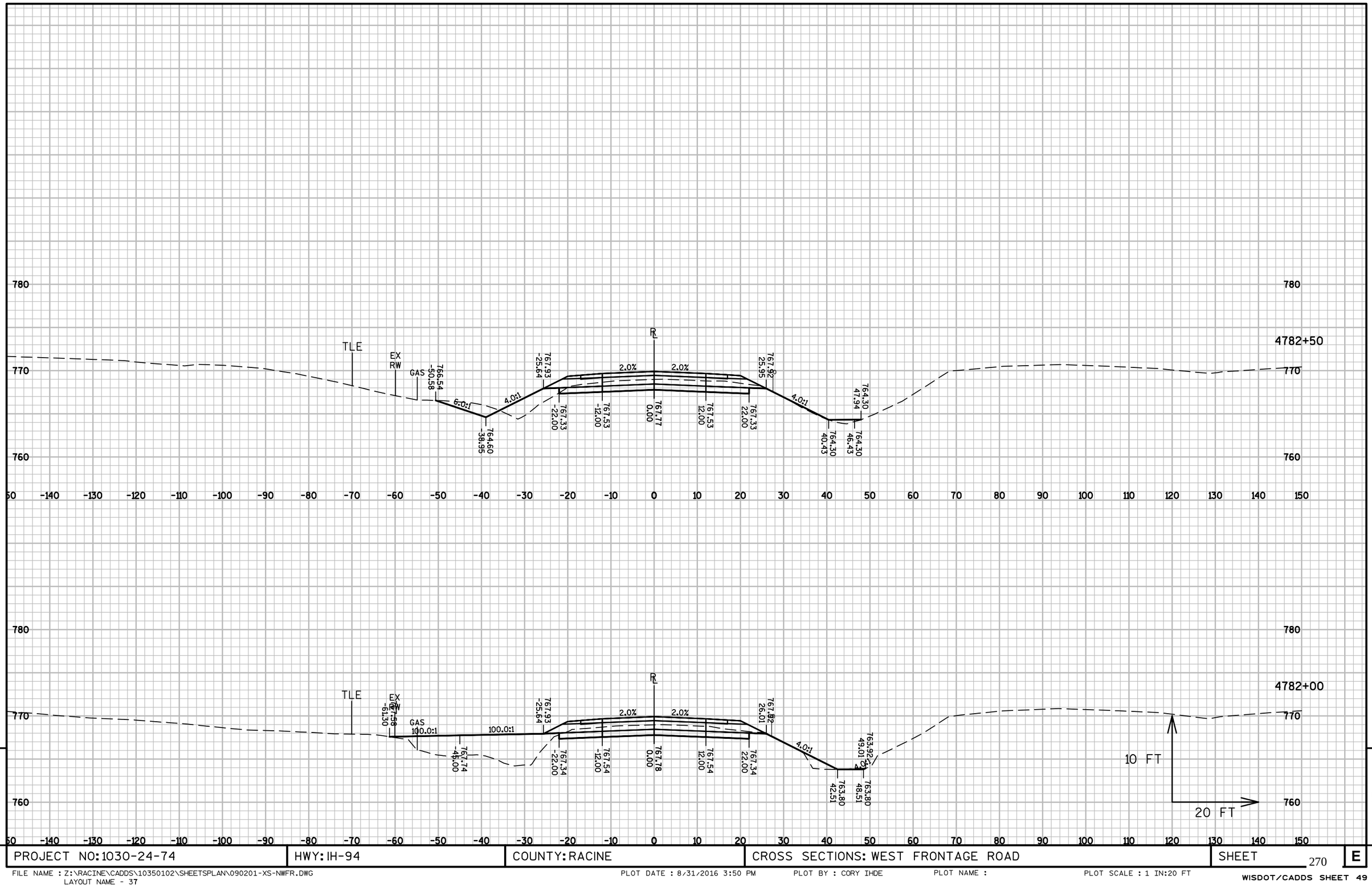
PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 269	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-NWFR.DWG
LAYOUT NAME - 36

PLOT DATE : 8/31/2016 3:50 PM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

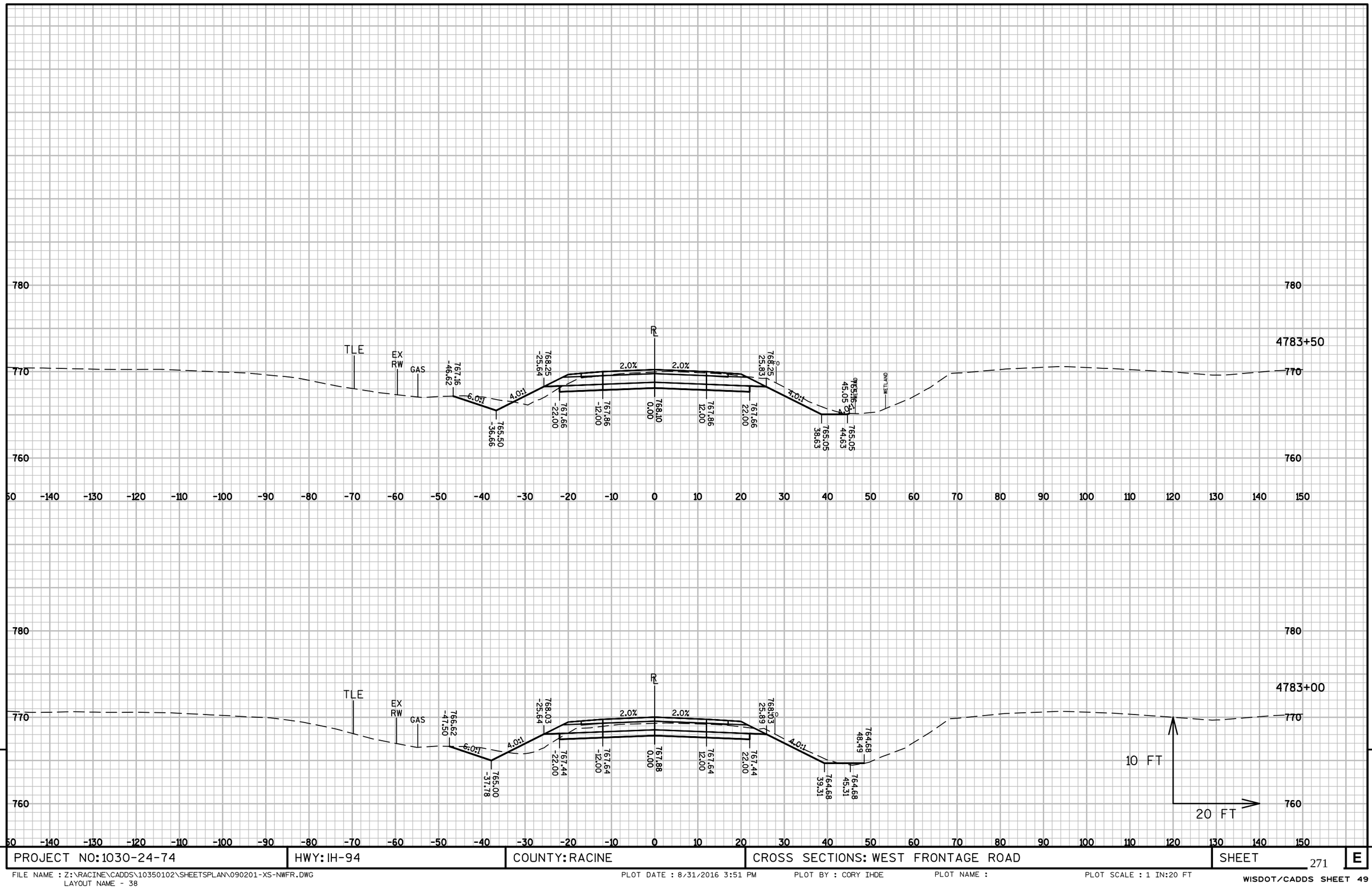


9 9

PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 270 E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-NWFR.DWG
LAYOUT NAME - 37

PLOT DATE : 8/31/2016 3:50 PM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT



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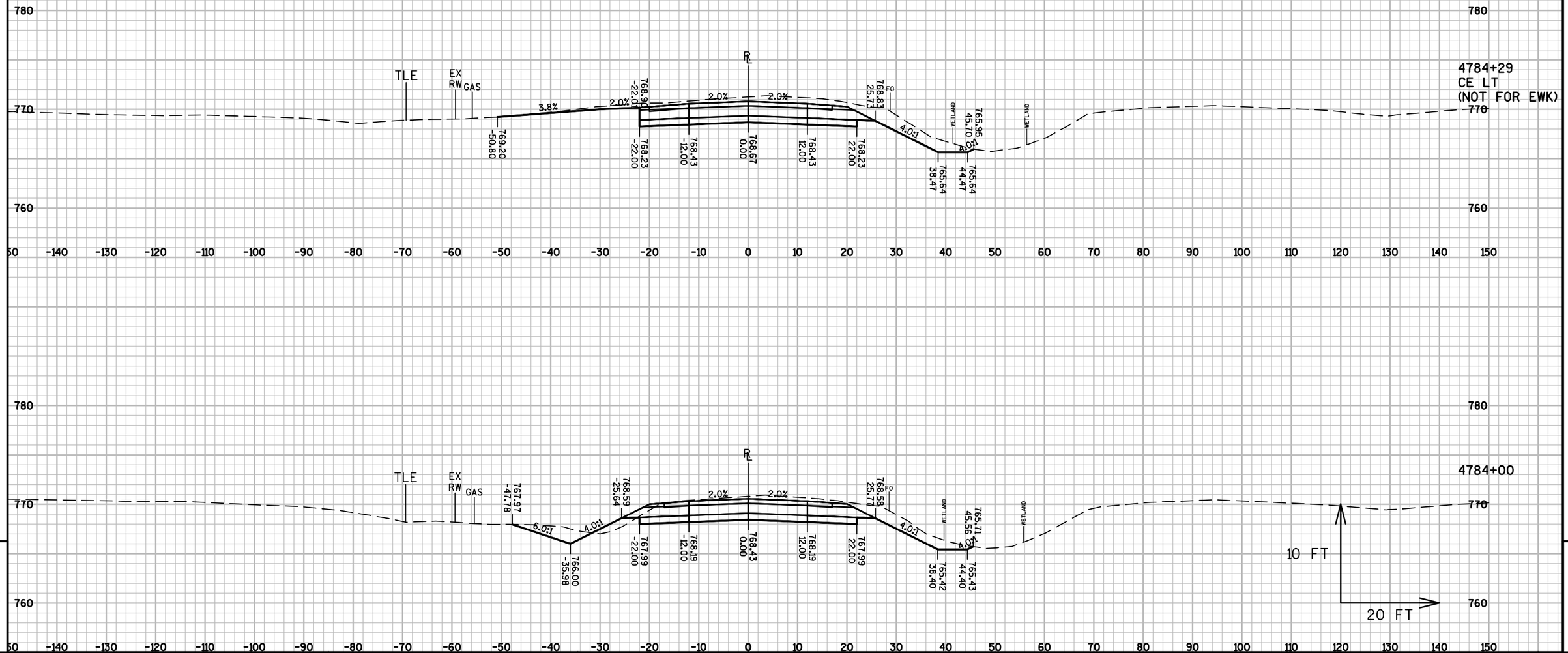
PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 271	E



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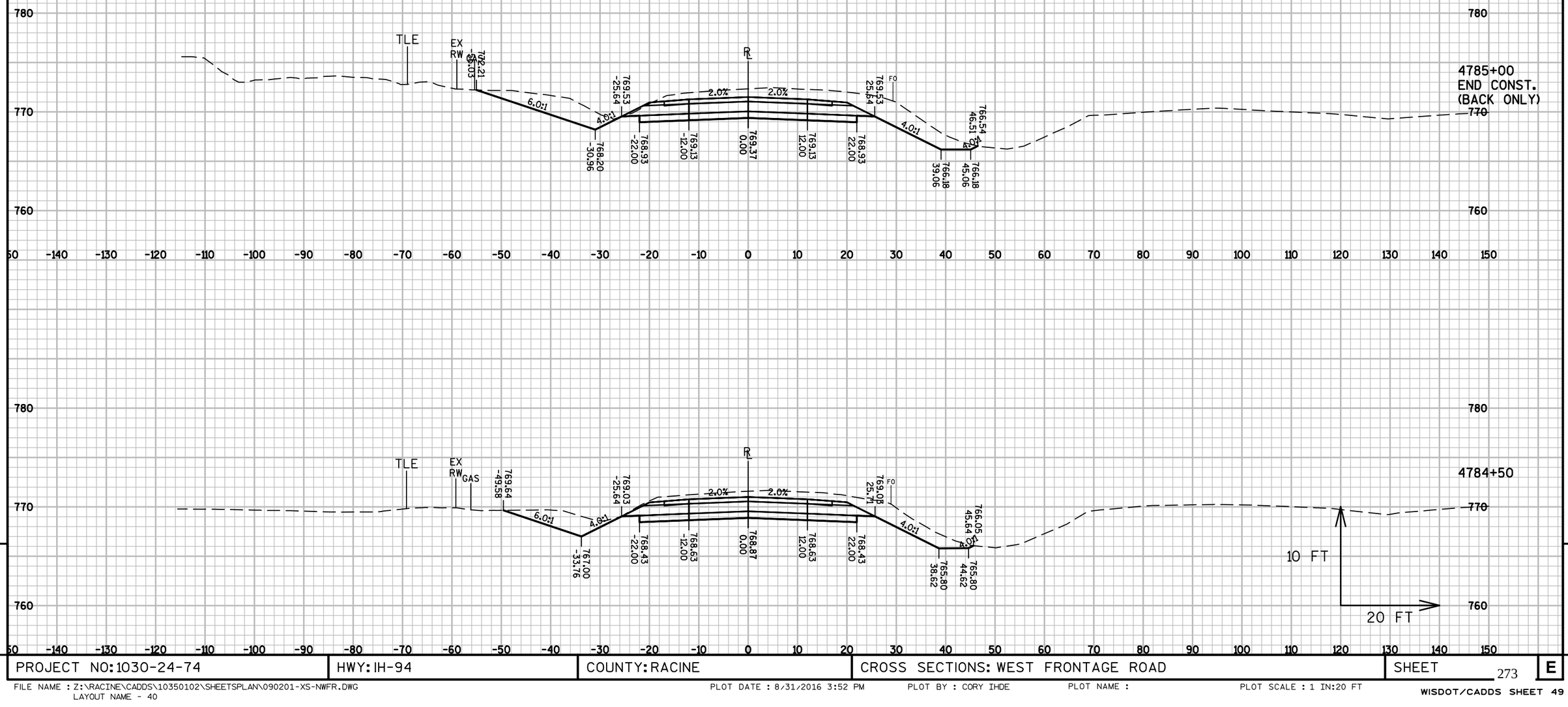
PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 272	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-NWFR.DWG
LAYOUT NAME - 39

PLOT DATE : 8/31/2016 3:51 PM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

END CONSTRUCTION



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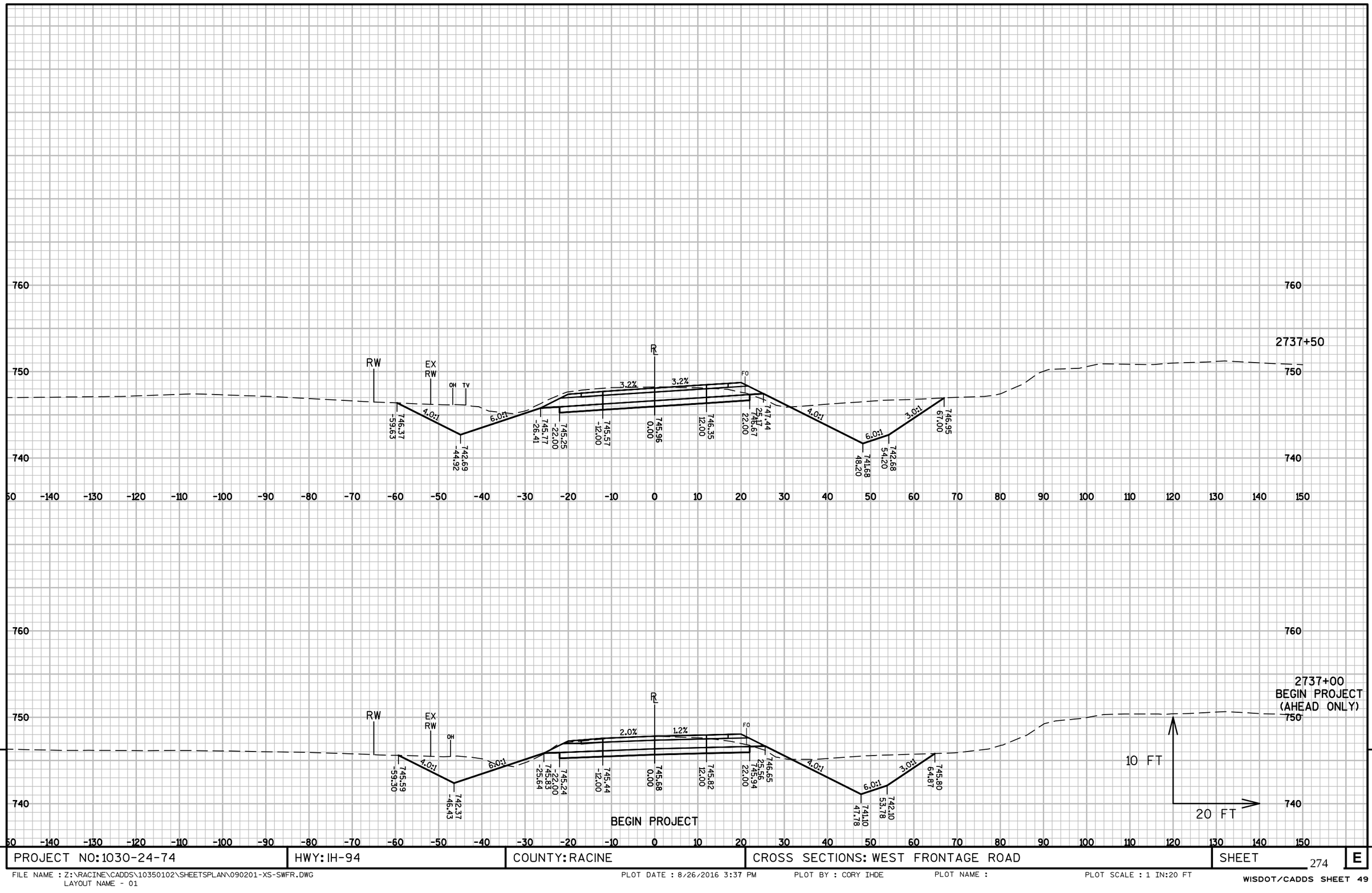
PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-NWFR.DWG
LAYOUT NAME - 40

PLOT DATE : 8/31/2016 3:52 PM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT

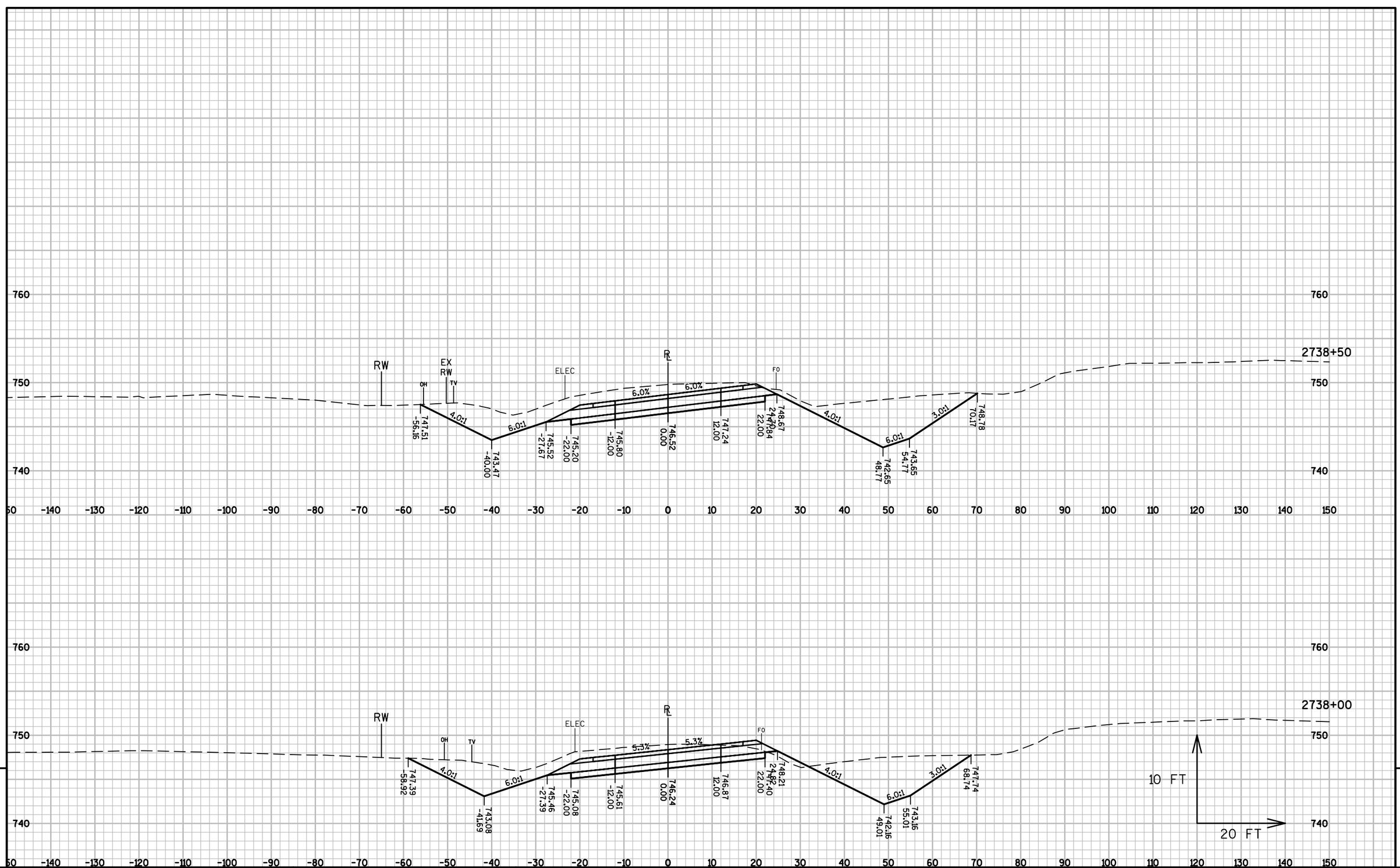


PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 274	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-SWFR.DWG
LAYOUT NAME - 01

PLOT DATE : 8/26/2016 3:37 PM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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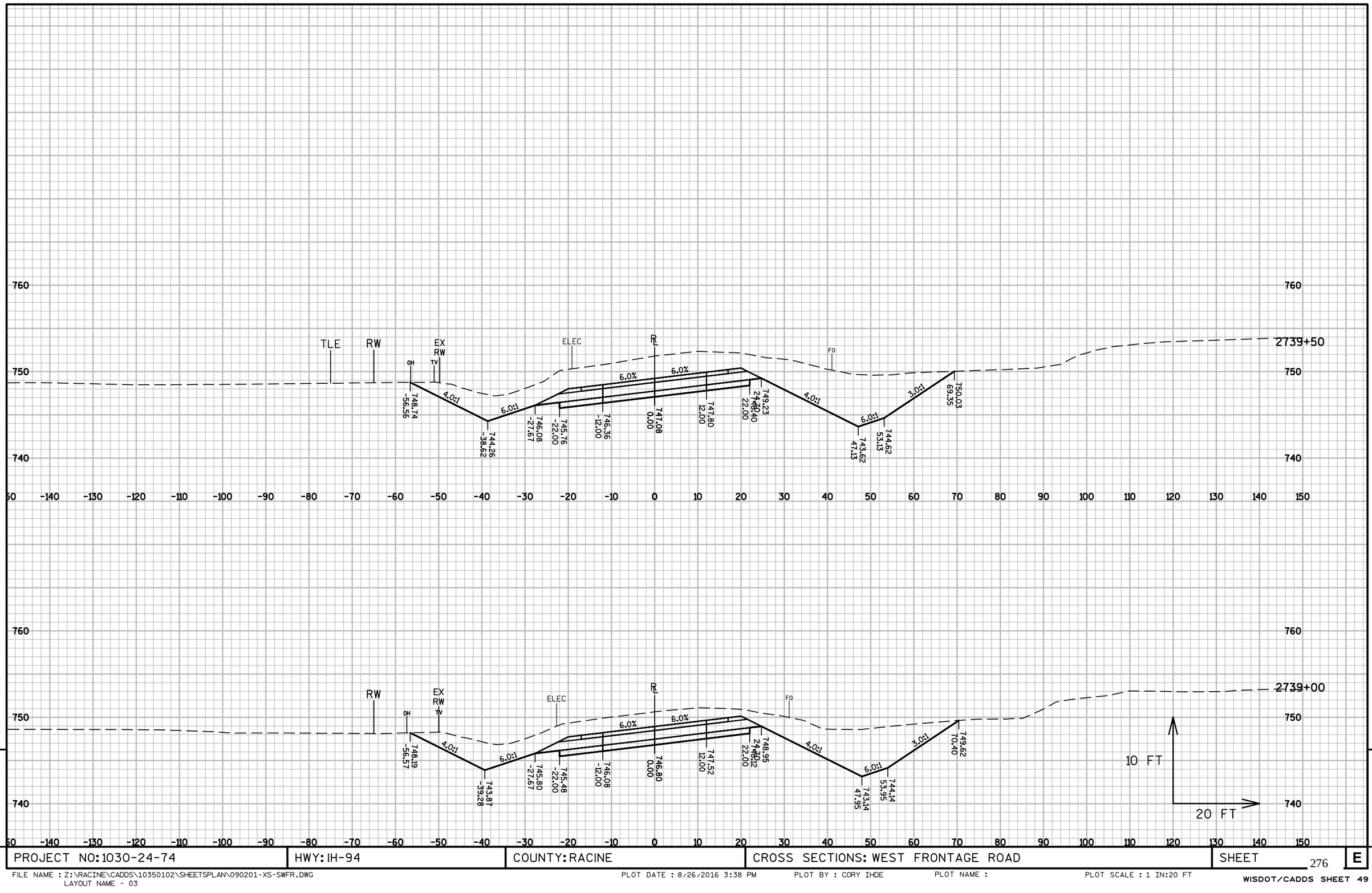
PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 275	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-SWFR.DWG
LAYOUT NAME - 02

PLOT DATE : 8/26/2016 3:38 PM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

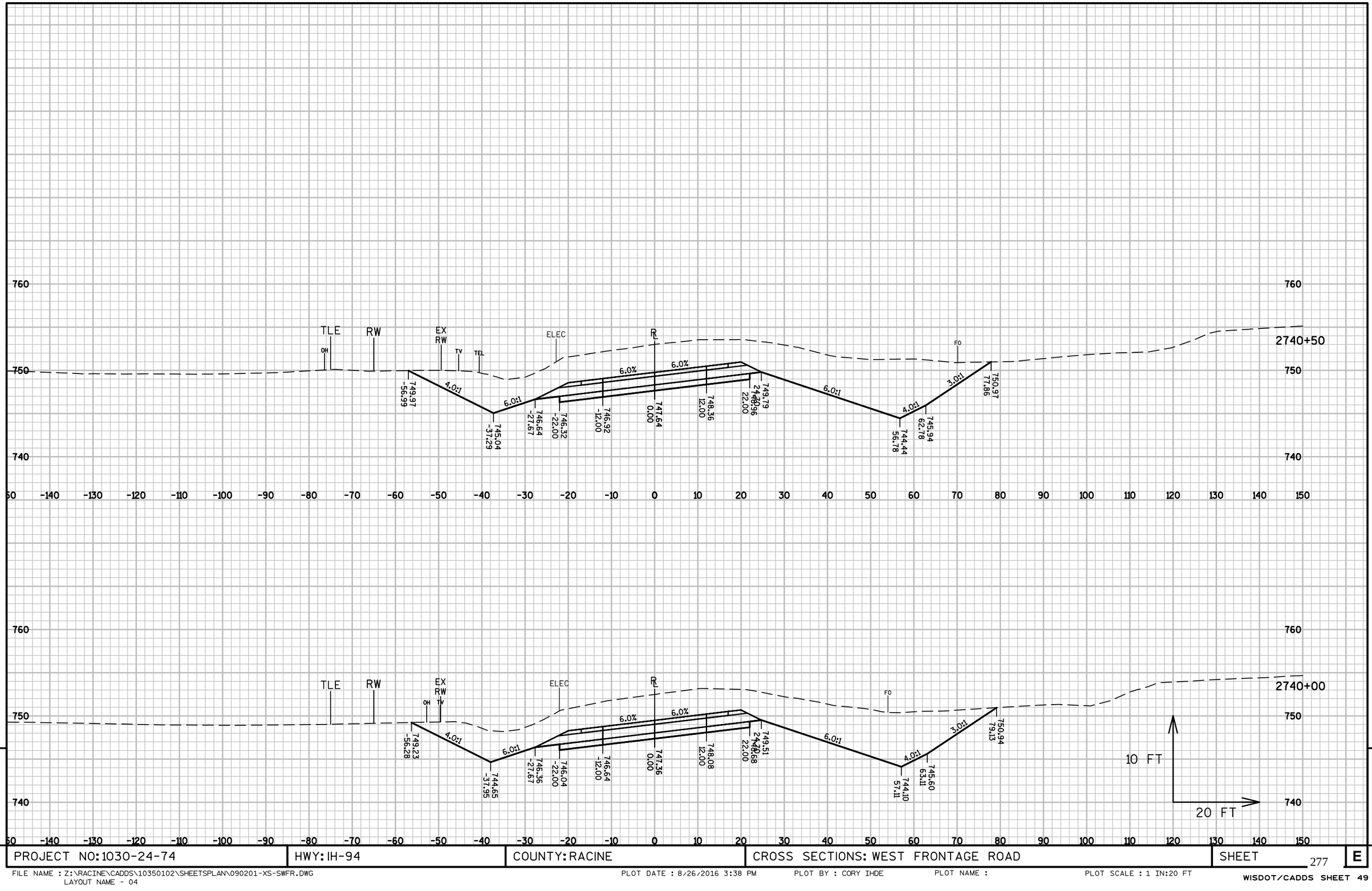


PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 276	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-SWFR.DWG
LAYOUT NAME - 03

PLOT DATE : 8/26/2016 3:38 PM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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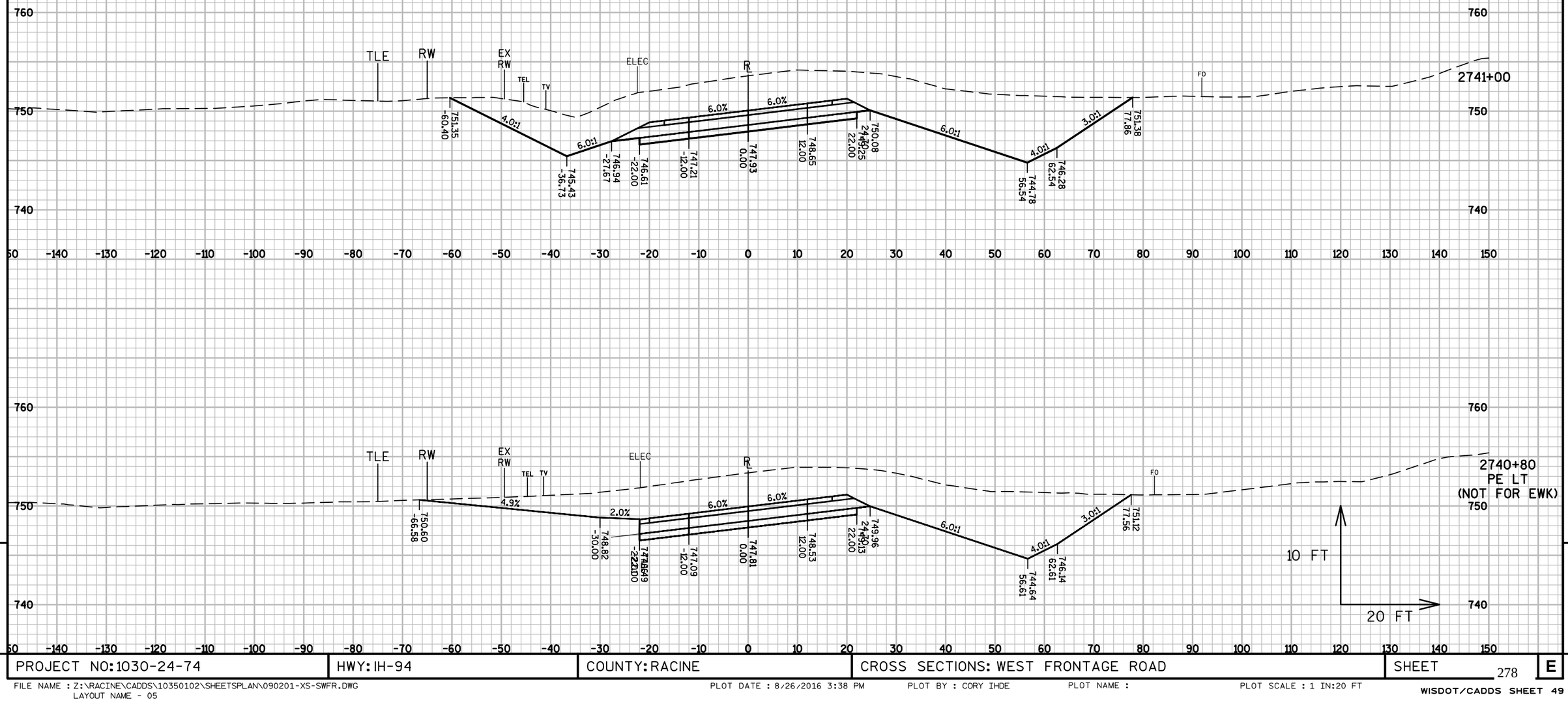
PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 277	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-SWFR.DWG
LAYOUT NAME - 04

PLOT DATE : 8/26/2016 3:38 PM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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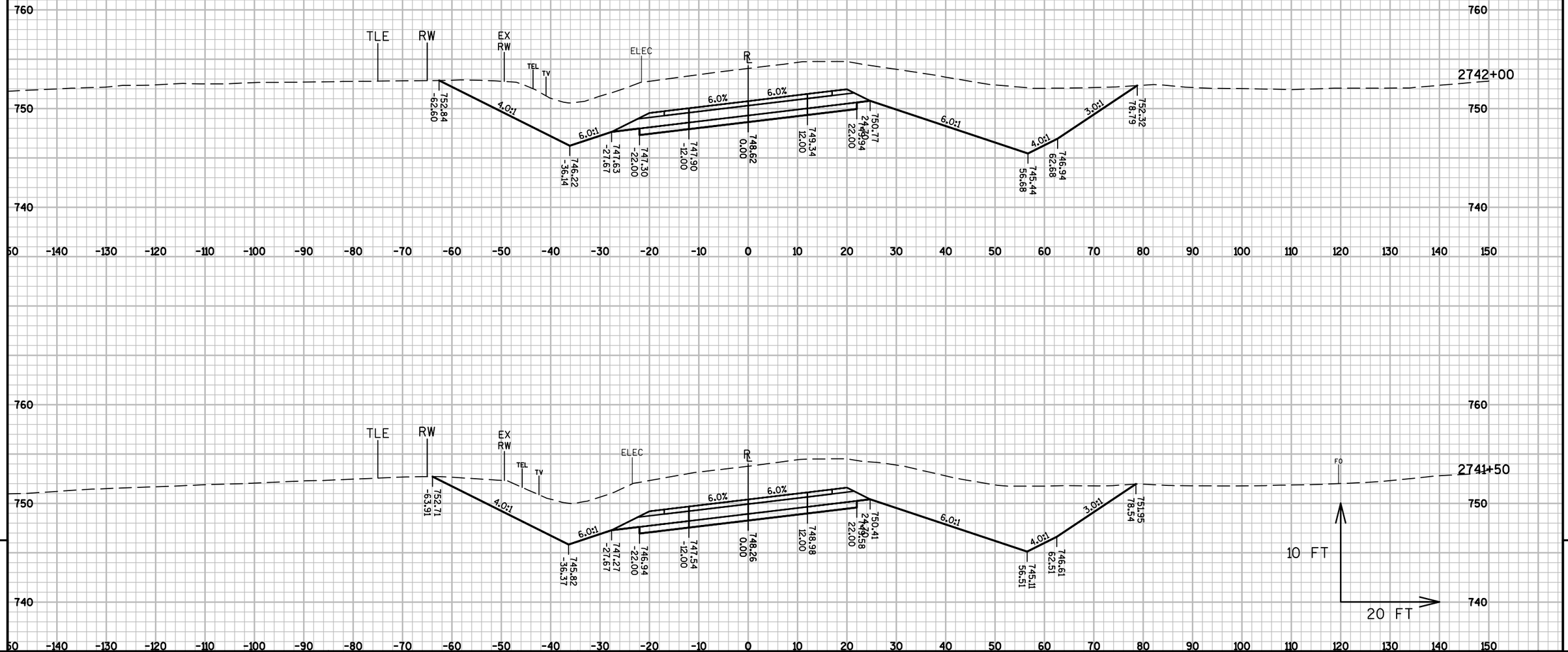
PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 278	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-SWFR.DWG
LAYOUT NAME - 05

PLOT DATE : 8/26/2016 3:38 PM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT



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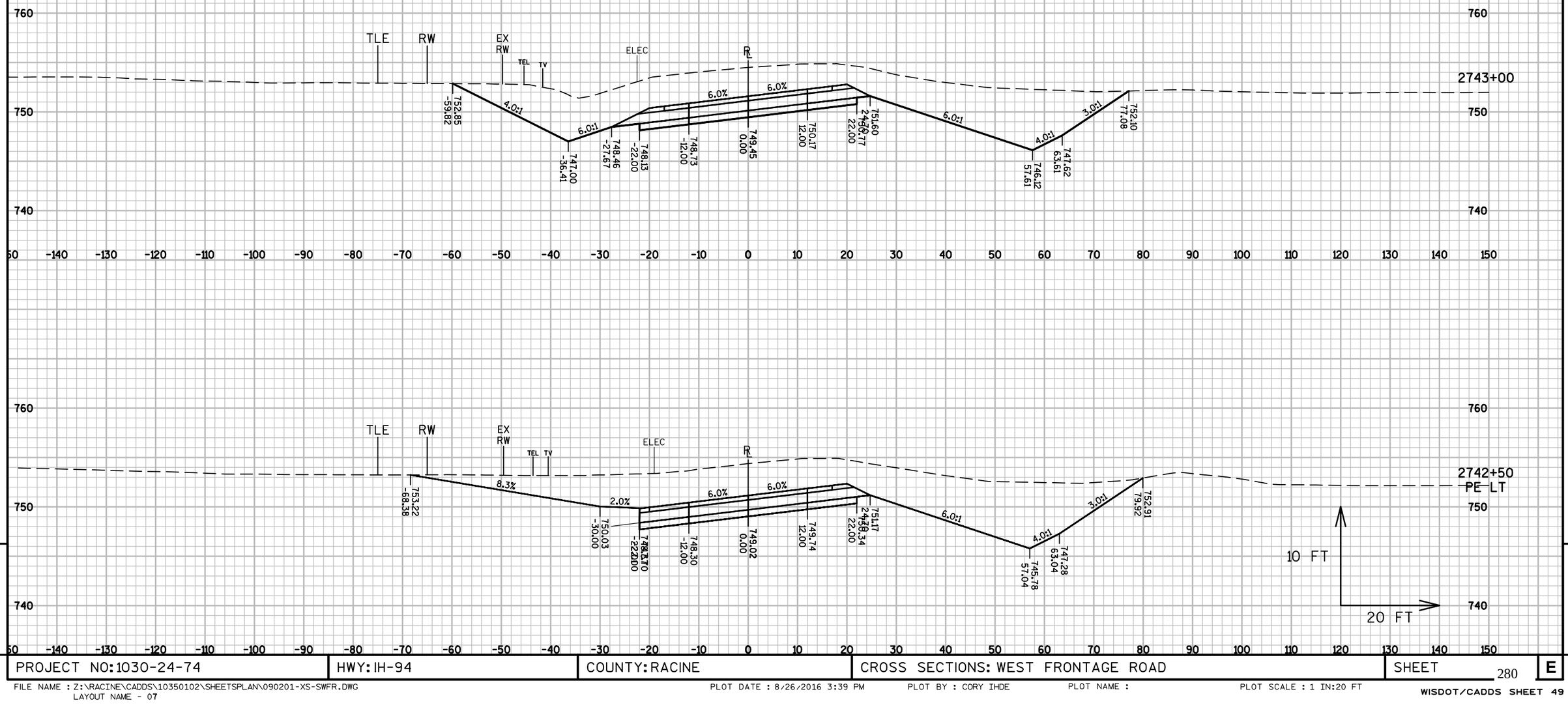
PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 279	E



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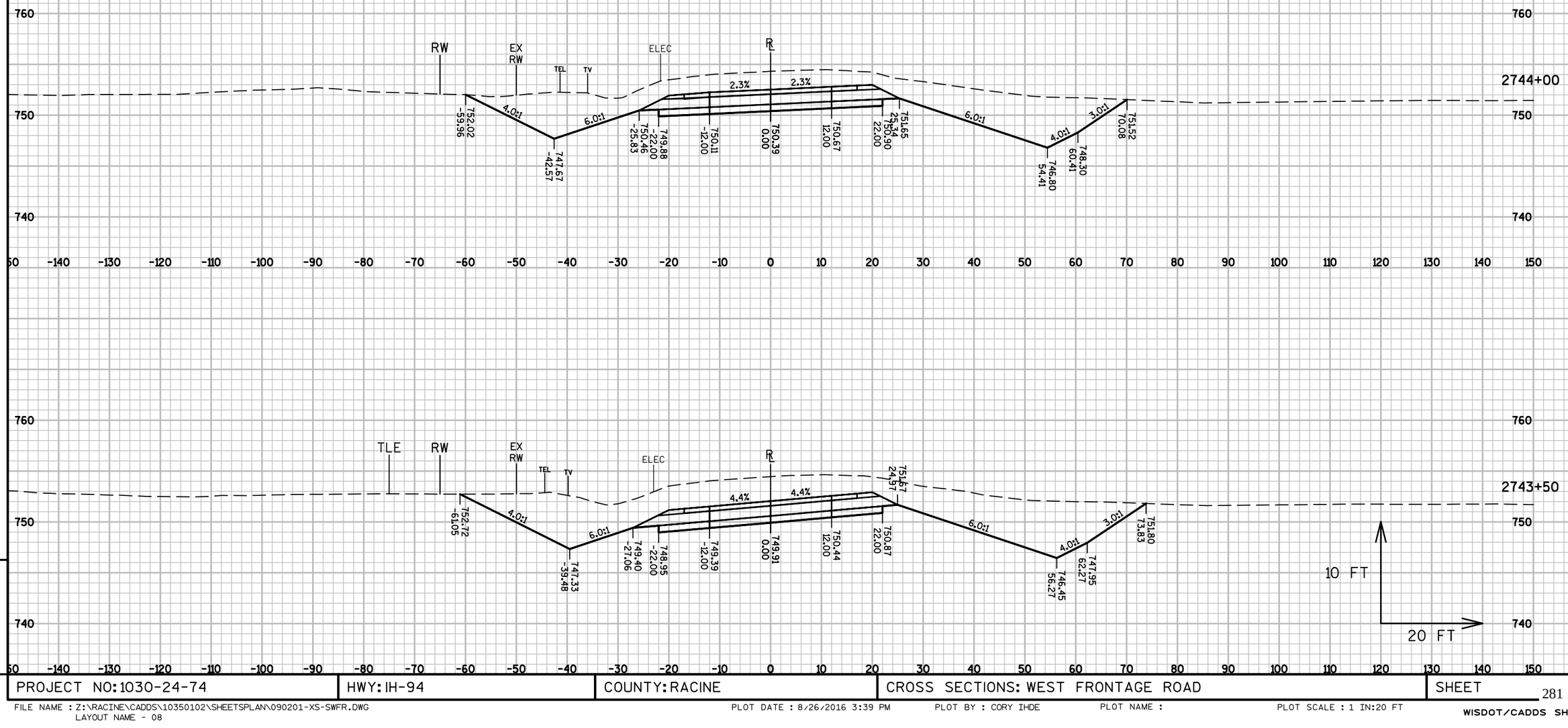
PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 280	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-SWFR.DWG
LAYOUT NAME - 07

PLOT DATE : 8/26/2016 3:39 PM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



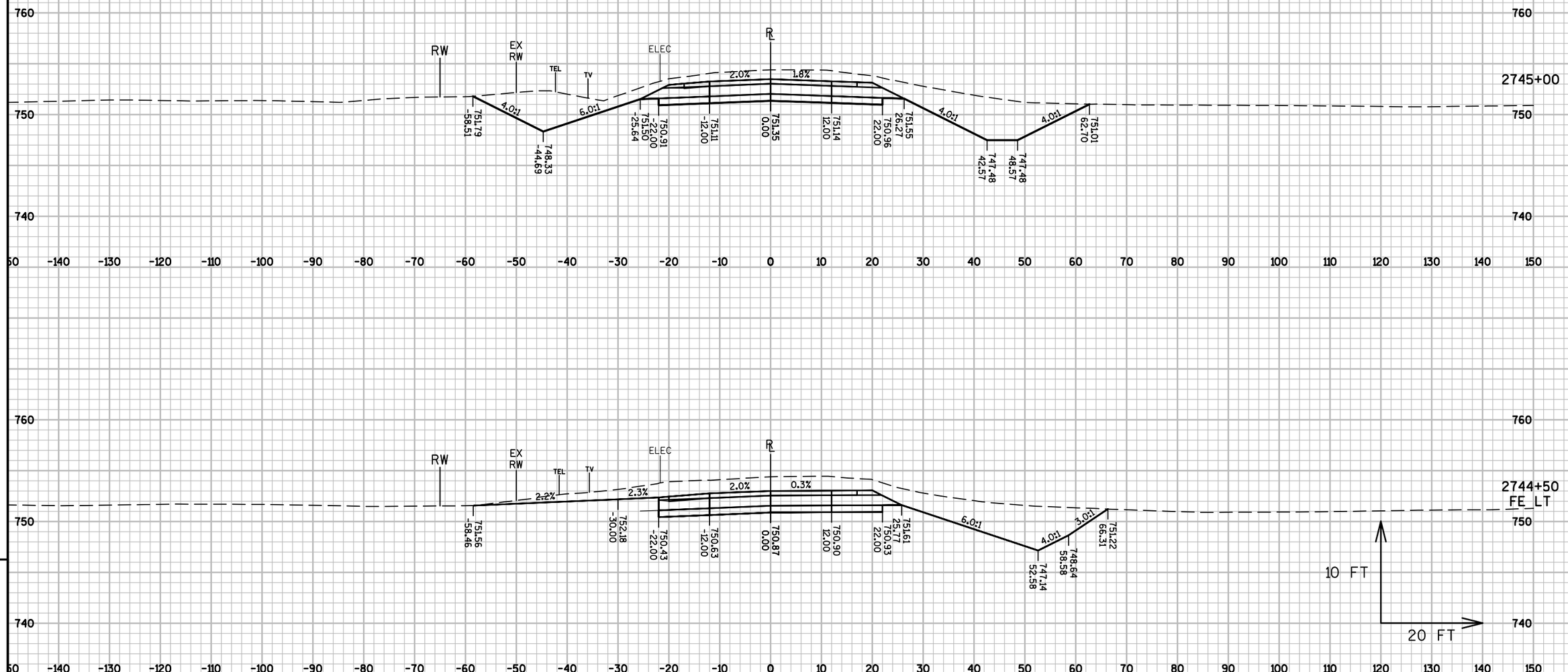
9 9

PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-SWFR.DWG
LAYOUT NAME - 08

PLOT DATE : 8/26/2016 3:39 PM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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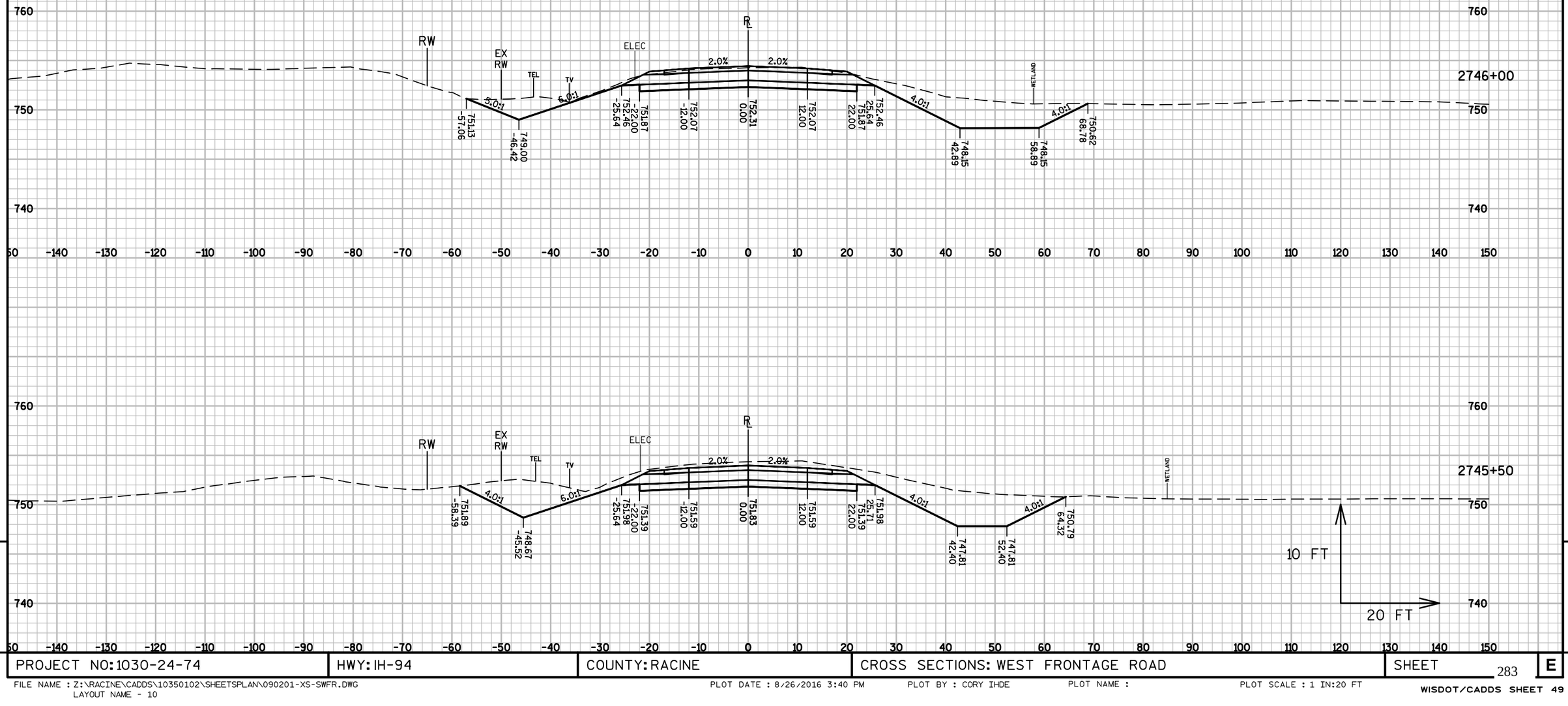
9

PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-SWFR.DWG
LAYOUT NAME - 09

PLOT DATE : 8/26/2016 3:39 PM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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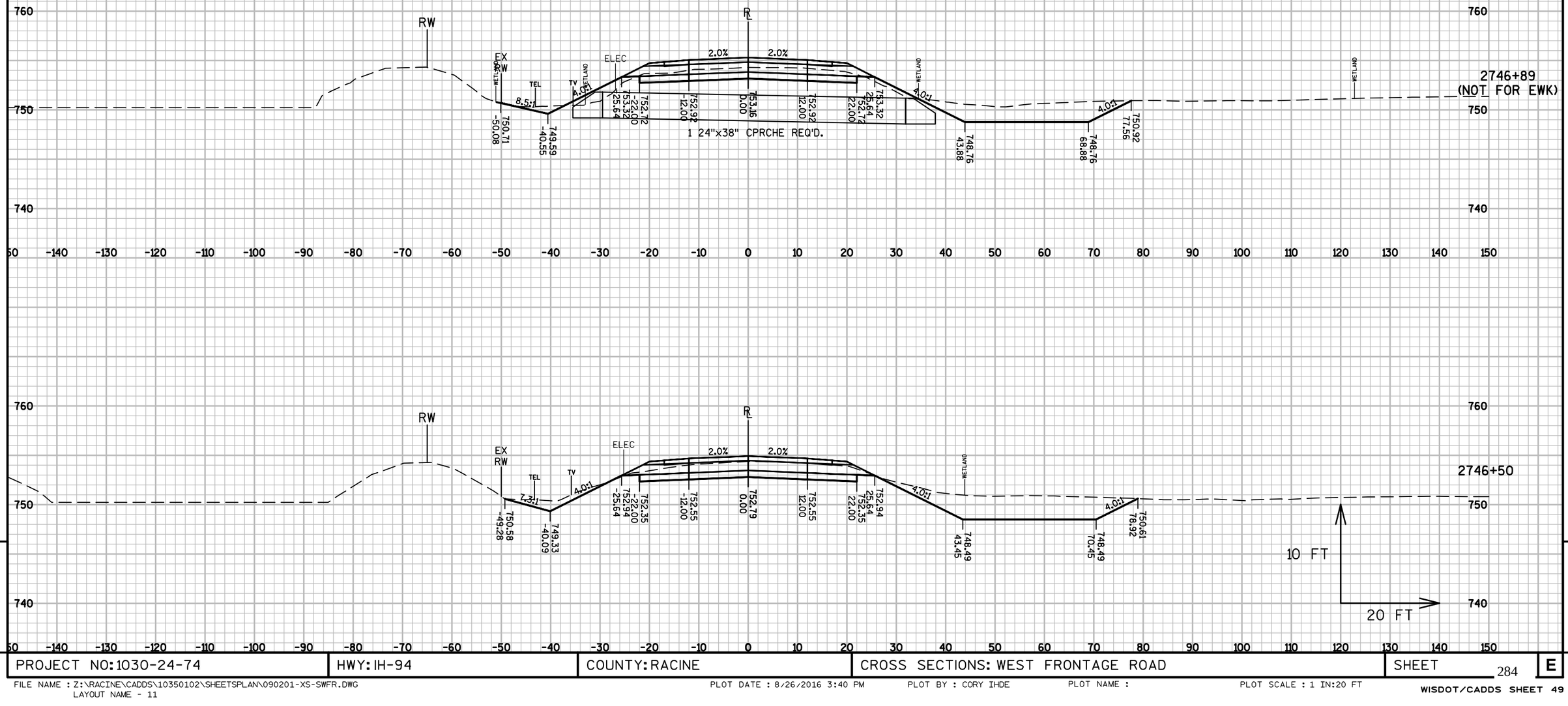
PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 283	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-SWFR.DWG
LAYOUT NAME - 10

PLOT DATE : 8/26/2016 3:40 PM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT

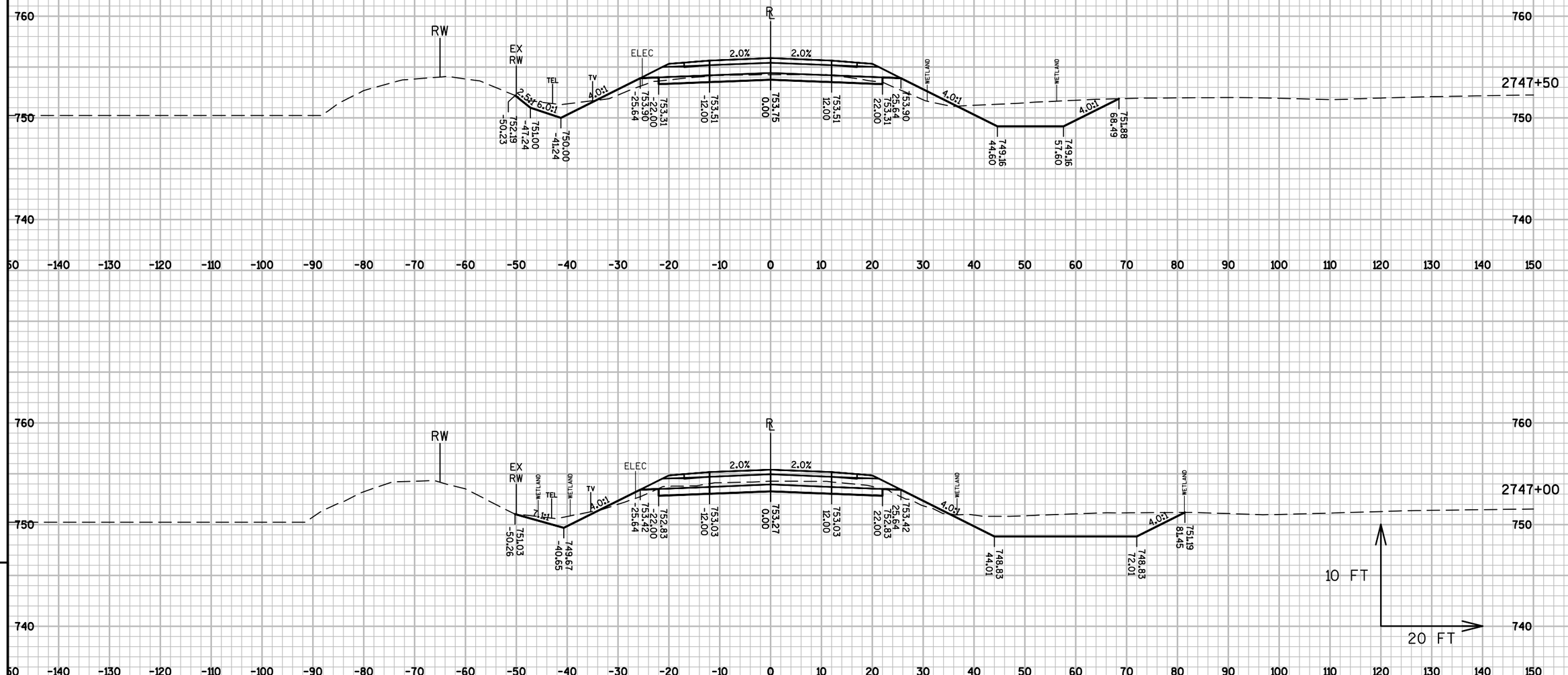


PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 284 E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-SWFR.DWG
LAYOUT NAME - 11

PLOT DATE : 8/26/2016 3:40 PM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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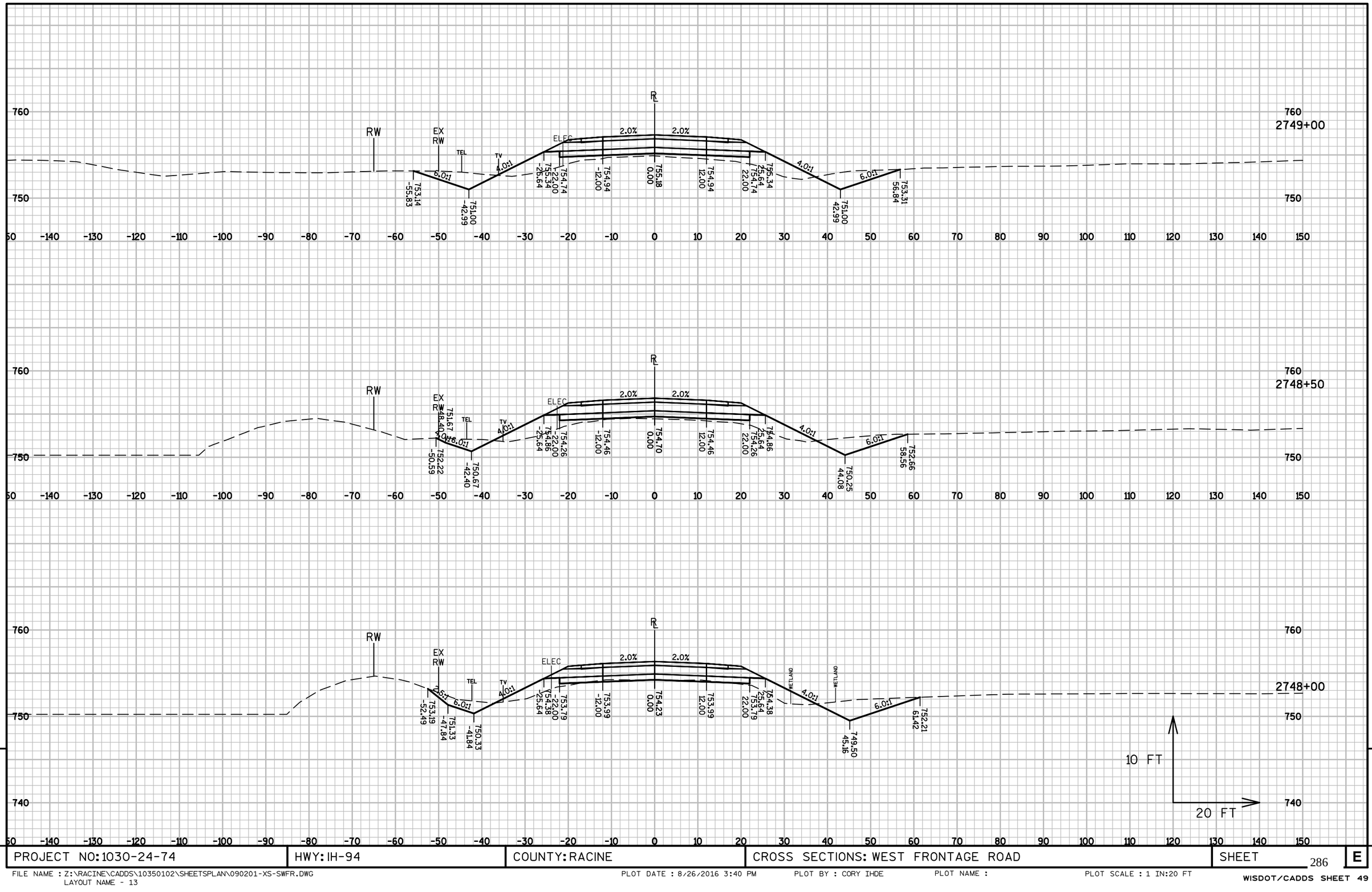
PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 285	E

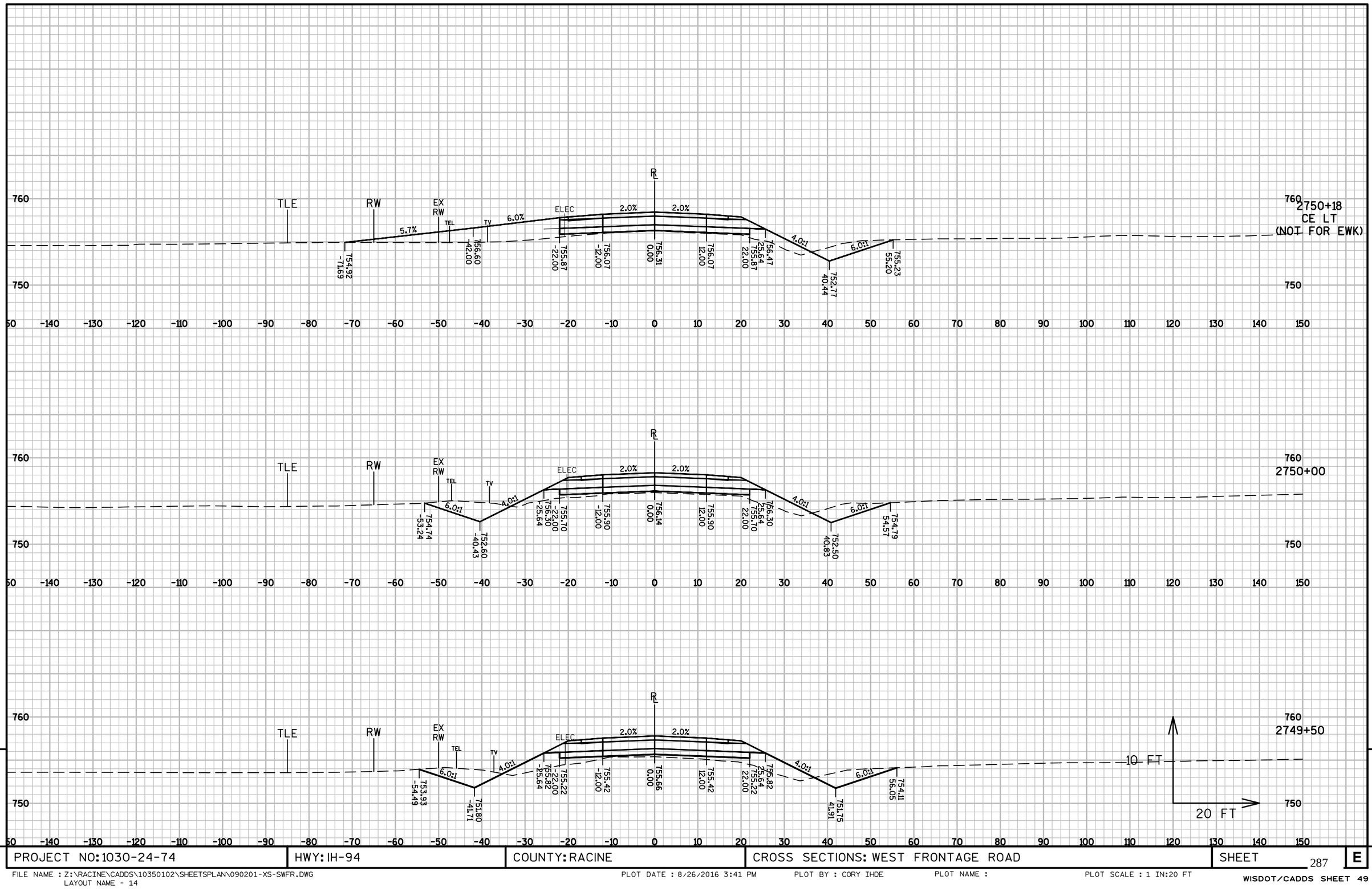


PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-SWFR.DWG
LAYOUT NAME - 13

PLOT DATE : 8/26/2016 3:40 PM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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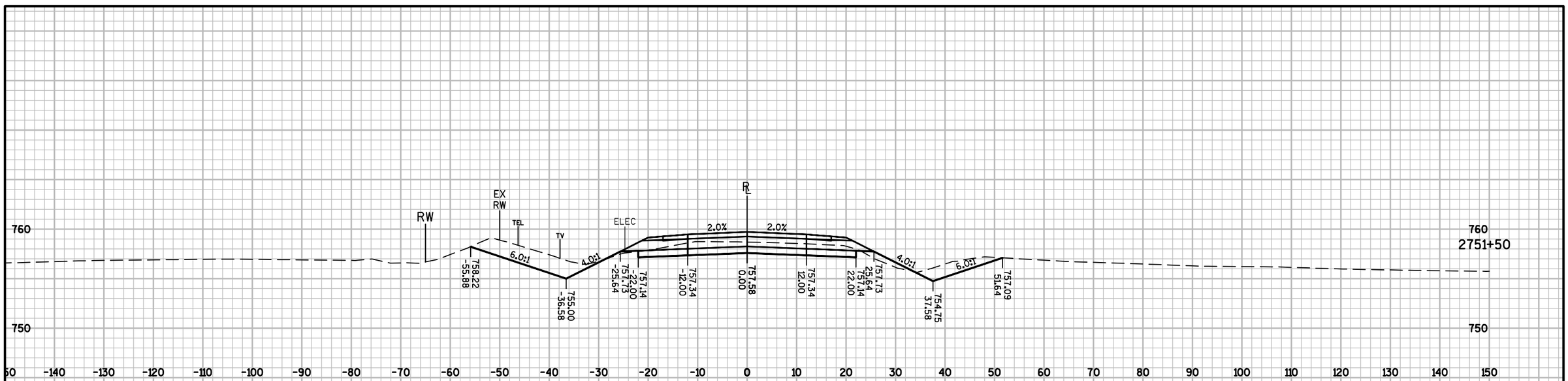
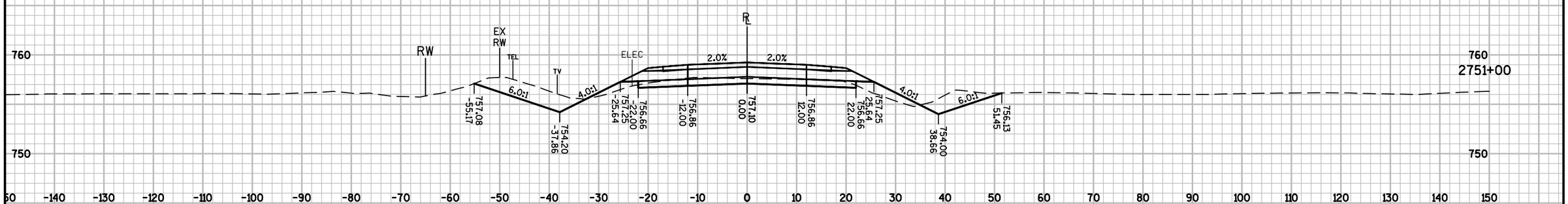
PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 287	E

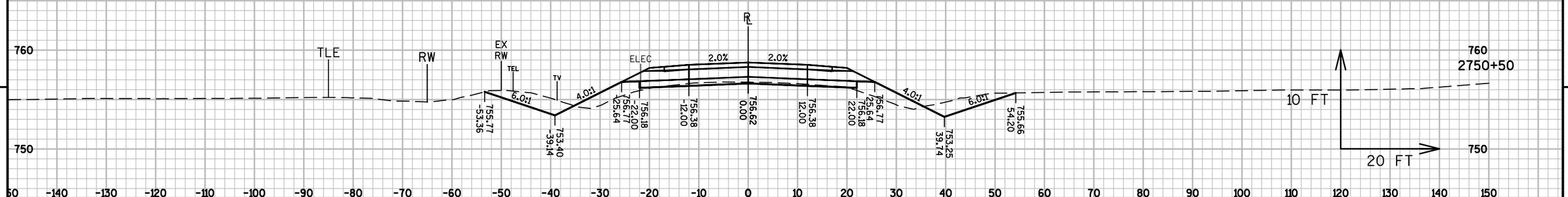
FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-SWFR.DWG
LAYOUT NAME - 14

PLOT DATE : 8/26/2016 3:41 PM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49







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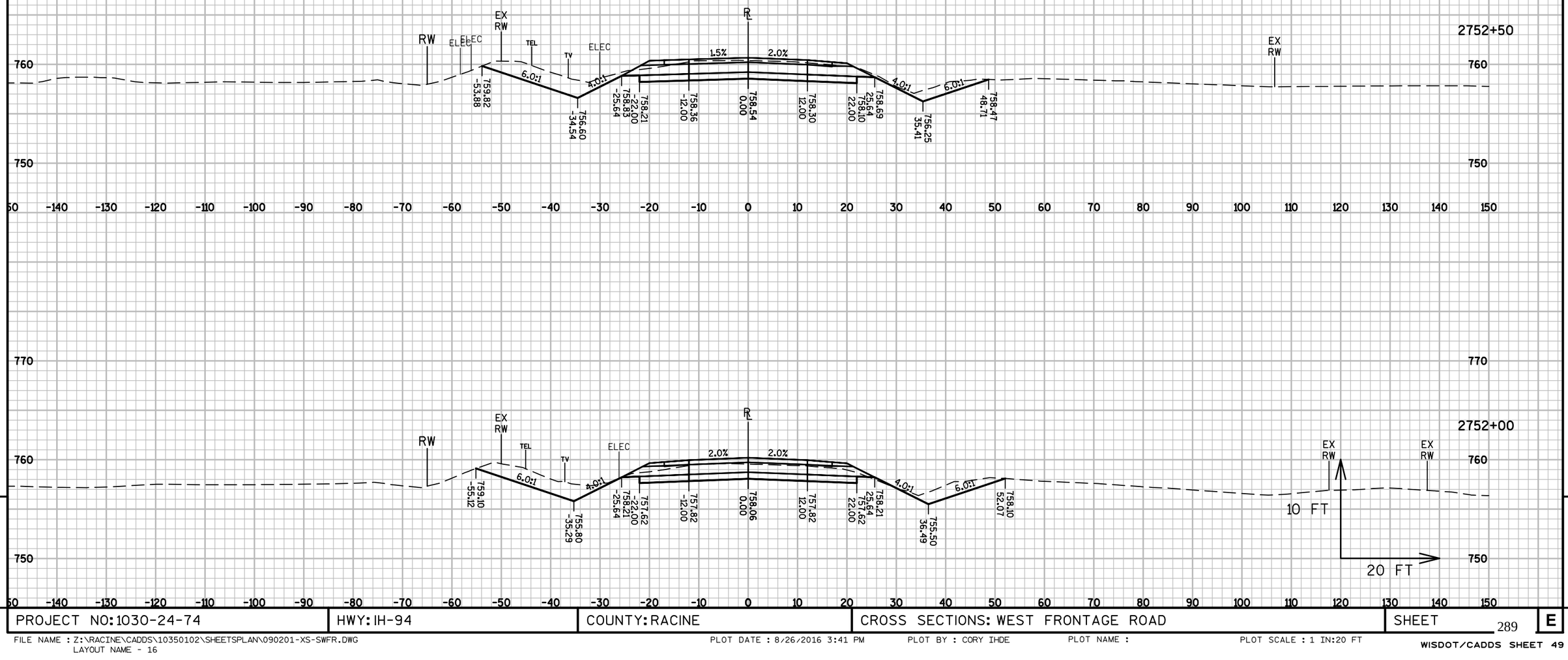
PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 288	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-SWFR.DWG
LAYOUT NAME - 15

PLOT DATE : 8/26/2016 3:41 PM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT



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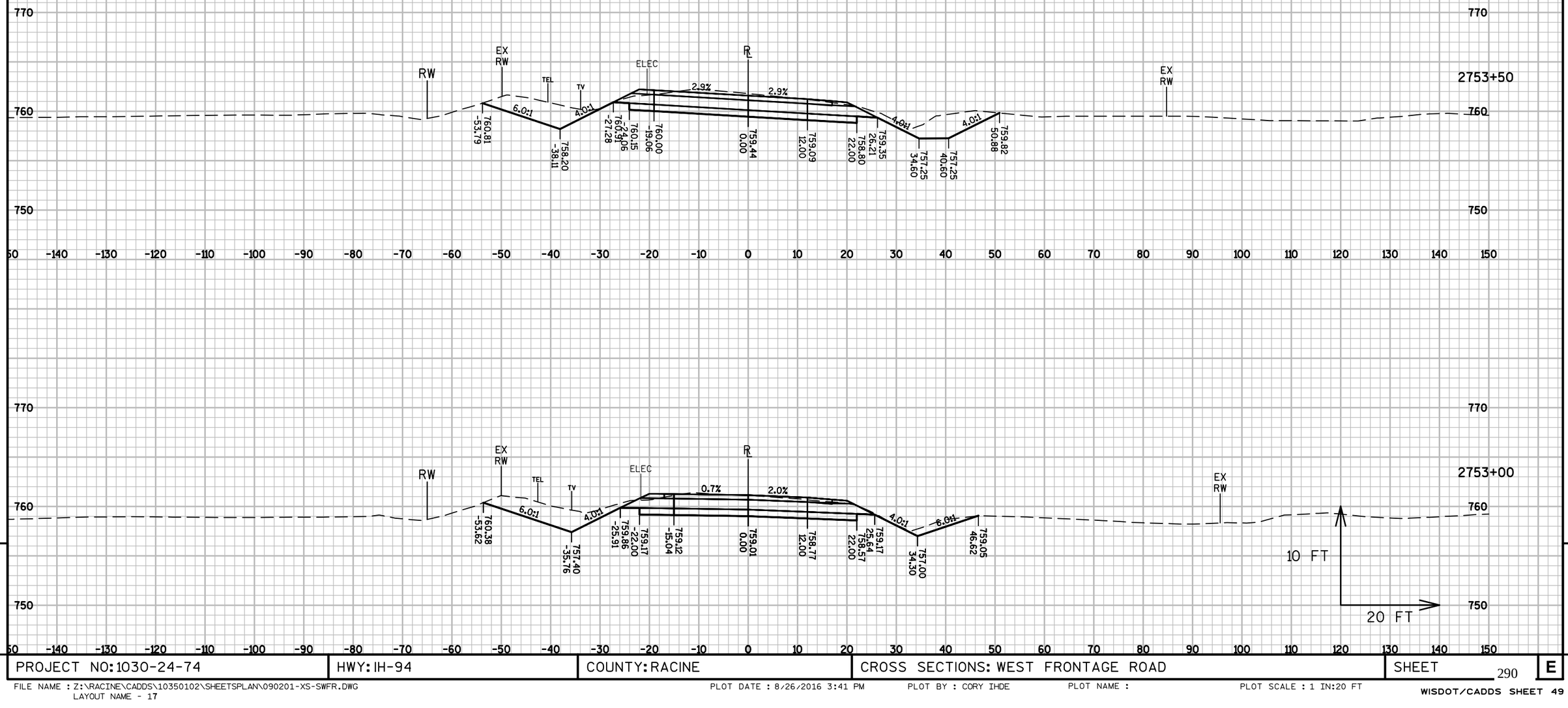
PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 289	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-SWFR.DWG
LAYOUT NAME - 16

PLOT DATE : 8/26/2016 3:41 PM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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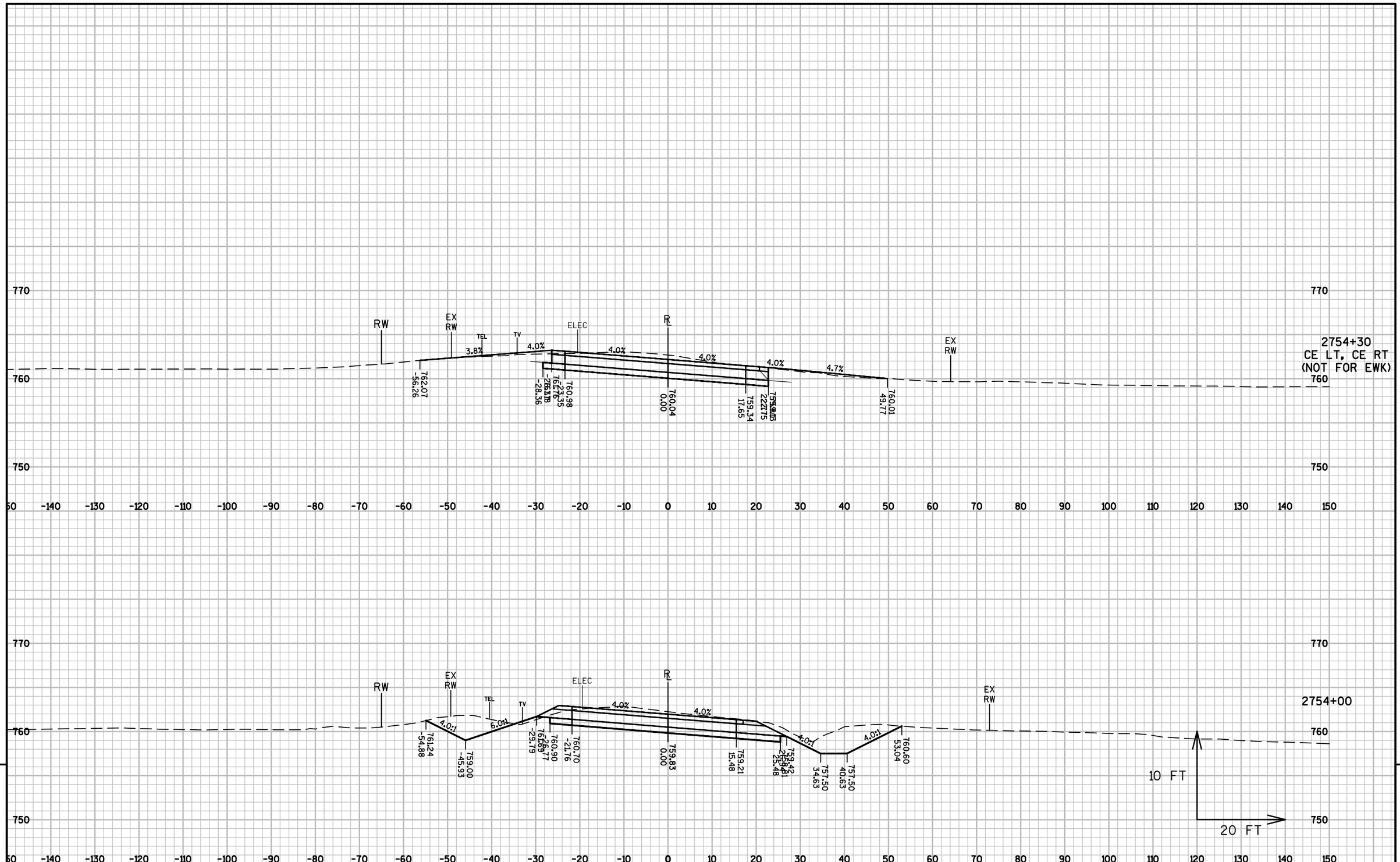
PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 290	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-SWFR.DWG
LAYOUT NAME - 17

PLOT DATE : 8/26/2016 3:41 PM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

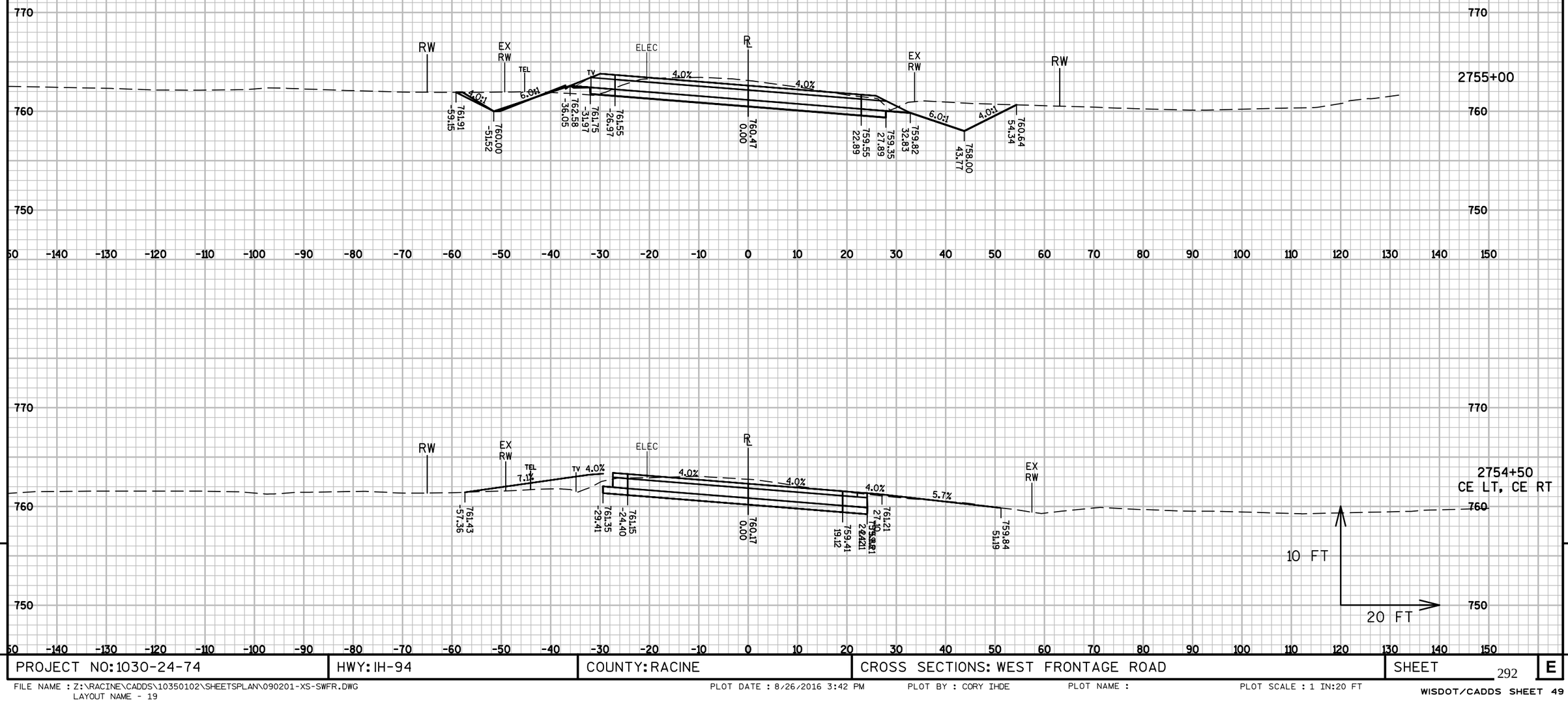


PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 291 E

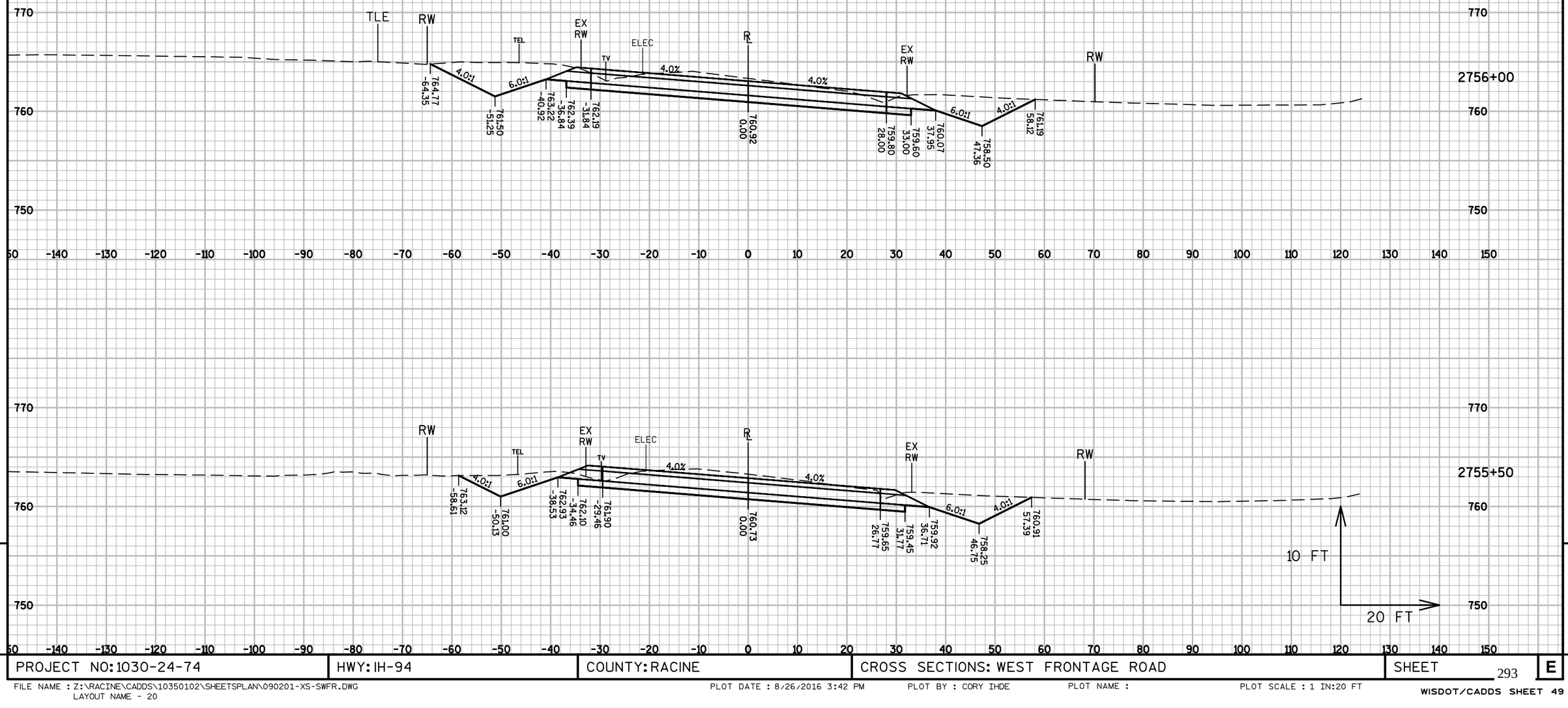
FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-SWFR.DWG
LAYOUT NAME - 18

PLOT DATE : 8/26/2016 3:42 PM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 292 E



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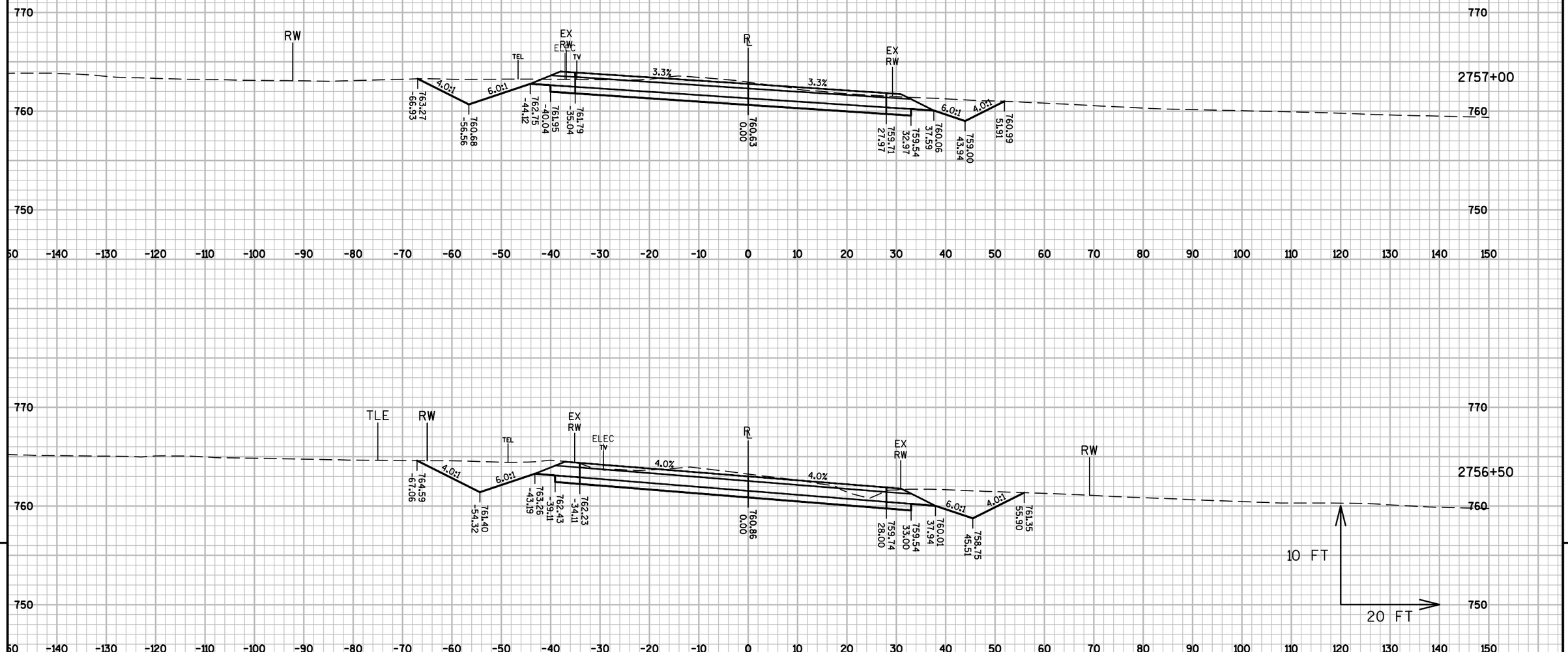
PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 293	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-SWFR.DWG
LAYOUT NAME - 20

PLOT DATE : 8/26/2016 3:42 PM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT



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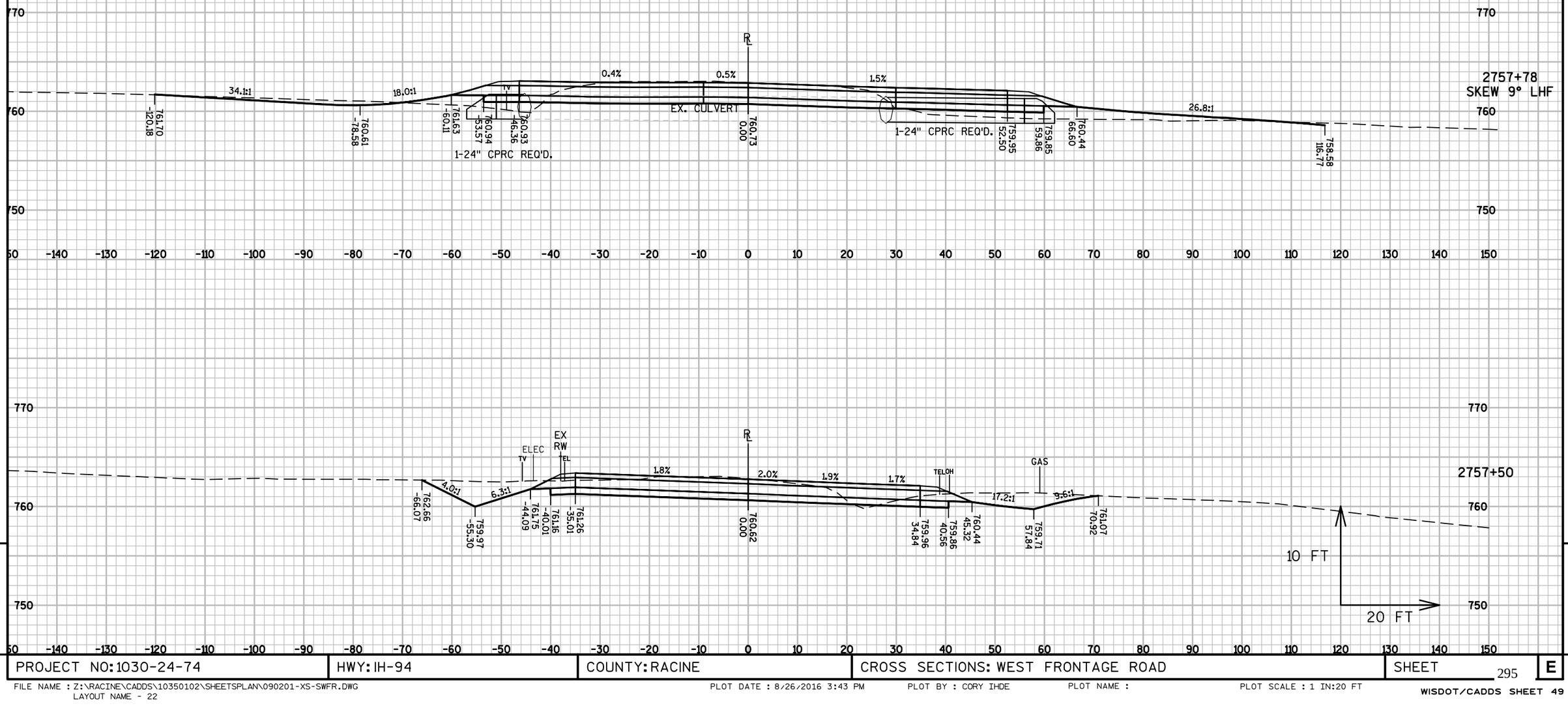
PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 294 E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-SWFR.DWG
LAYOUT NAME - 21

PLOT DATE : 8/26/2016 3:42 PM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT

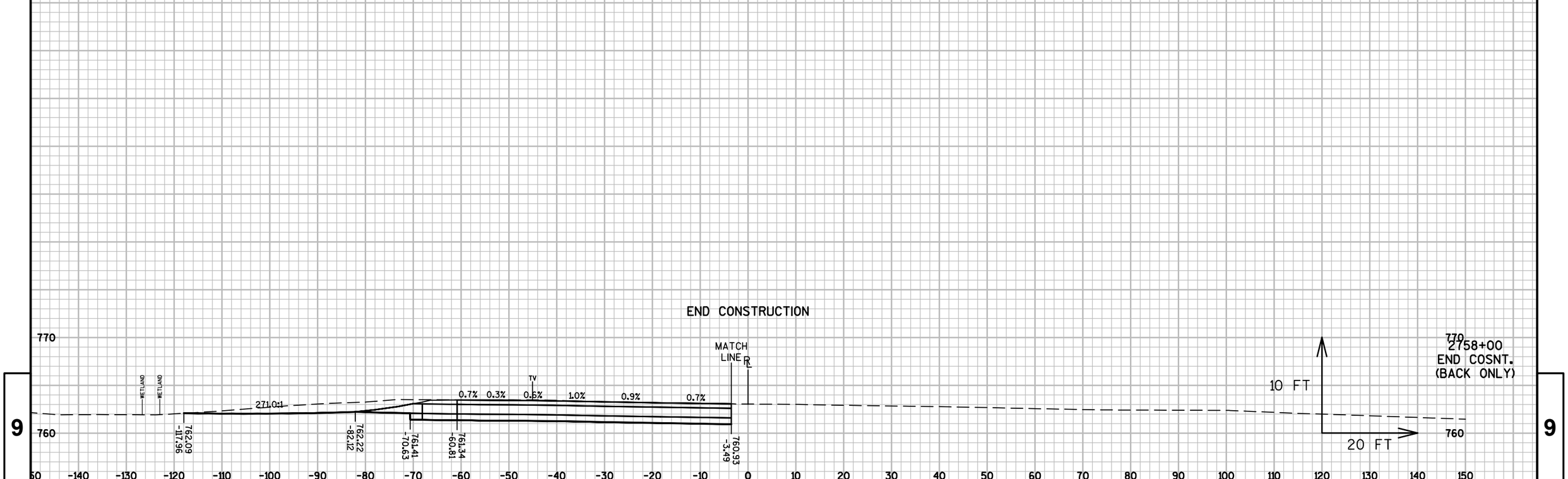


PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 295 E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-SWFR.DWG
LAYOUT NAME - 22

PLOT DATE : 8/26/2016 3:43 PM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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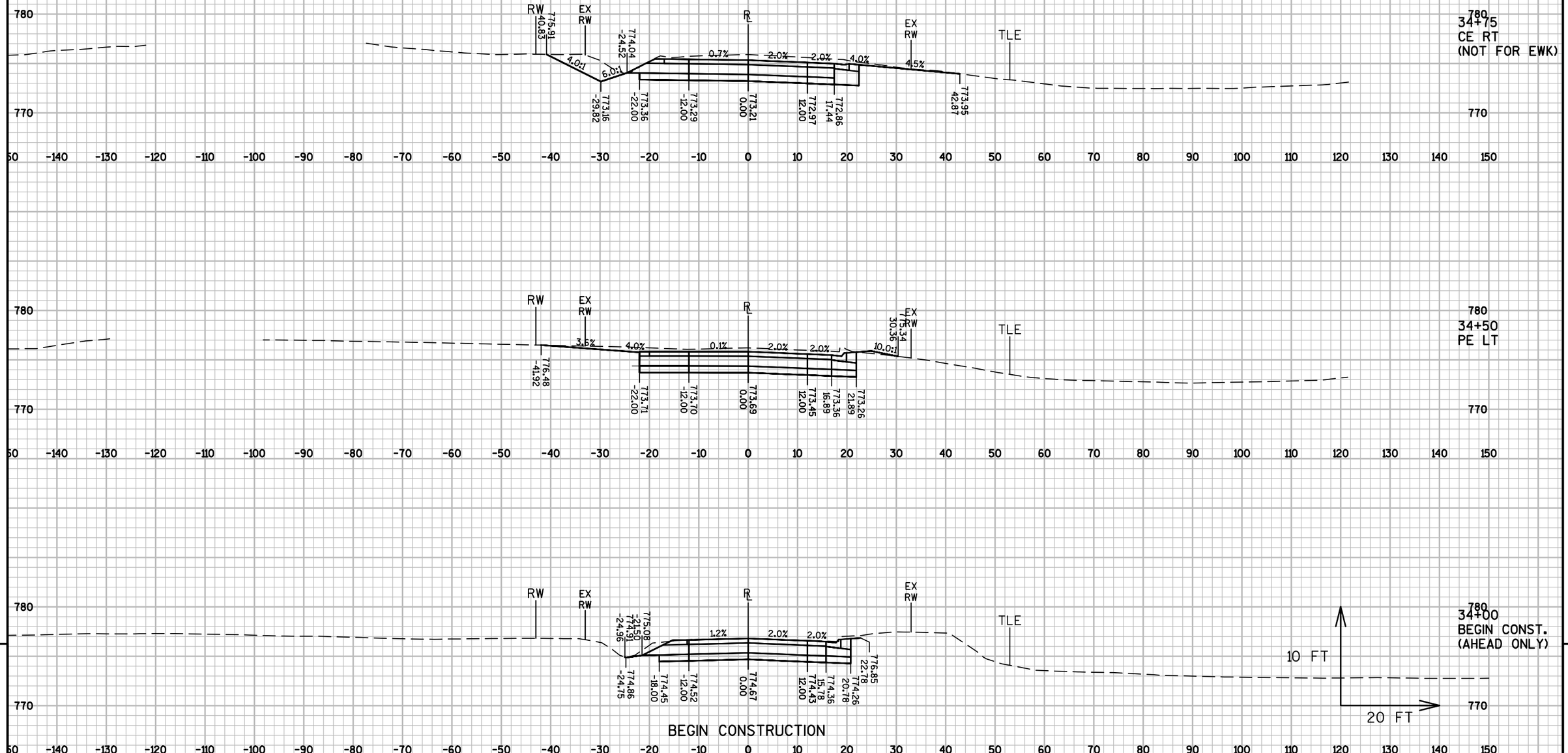
PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 296 E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-SWFR.DWG
LAYOUT NAME - 23

PLOT DATE : 8/26/2016 3:43 PM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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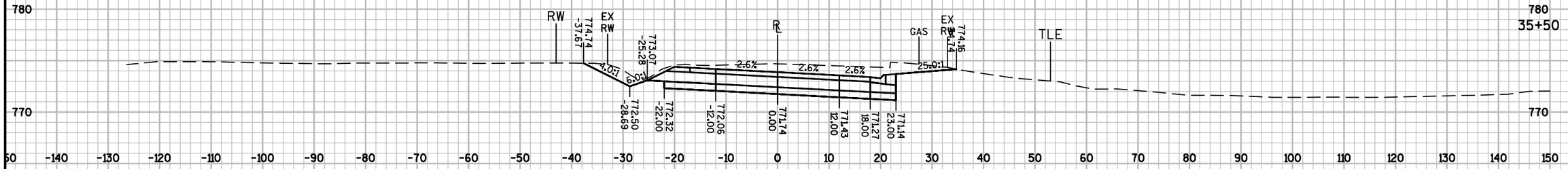
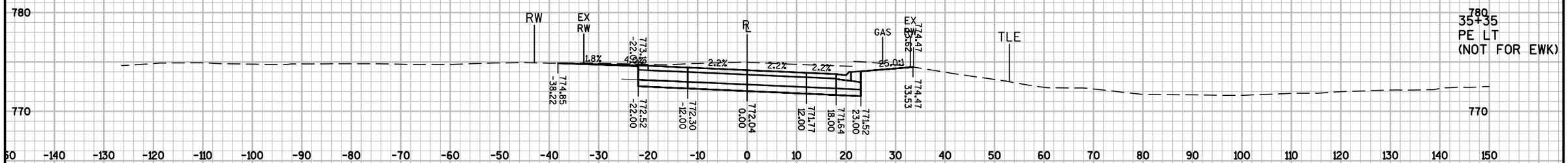
PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: 58TH ROAD	SHEET 297	E

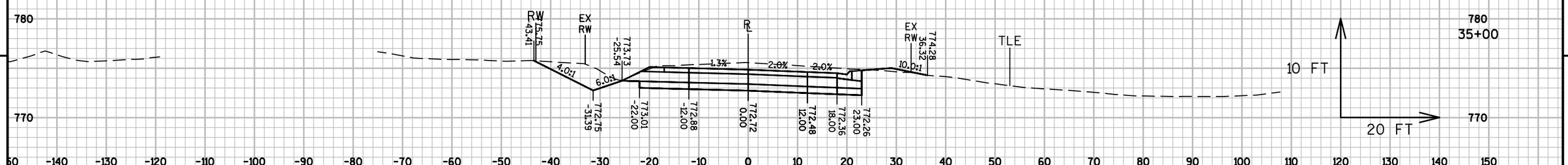
FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090202-XS-58TH.DWG
LAYOUT NAME - 01

PLOT DATE : 7/27/2017 8:02 AM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49







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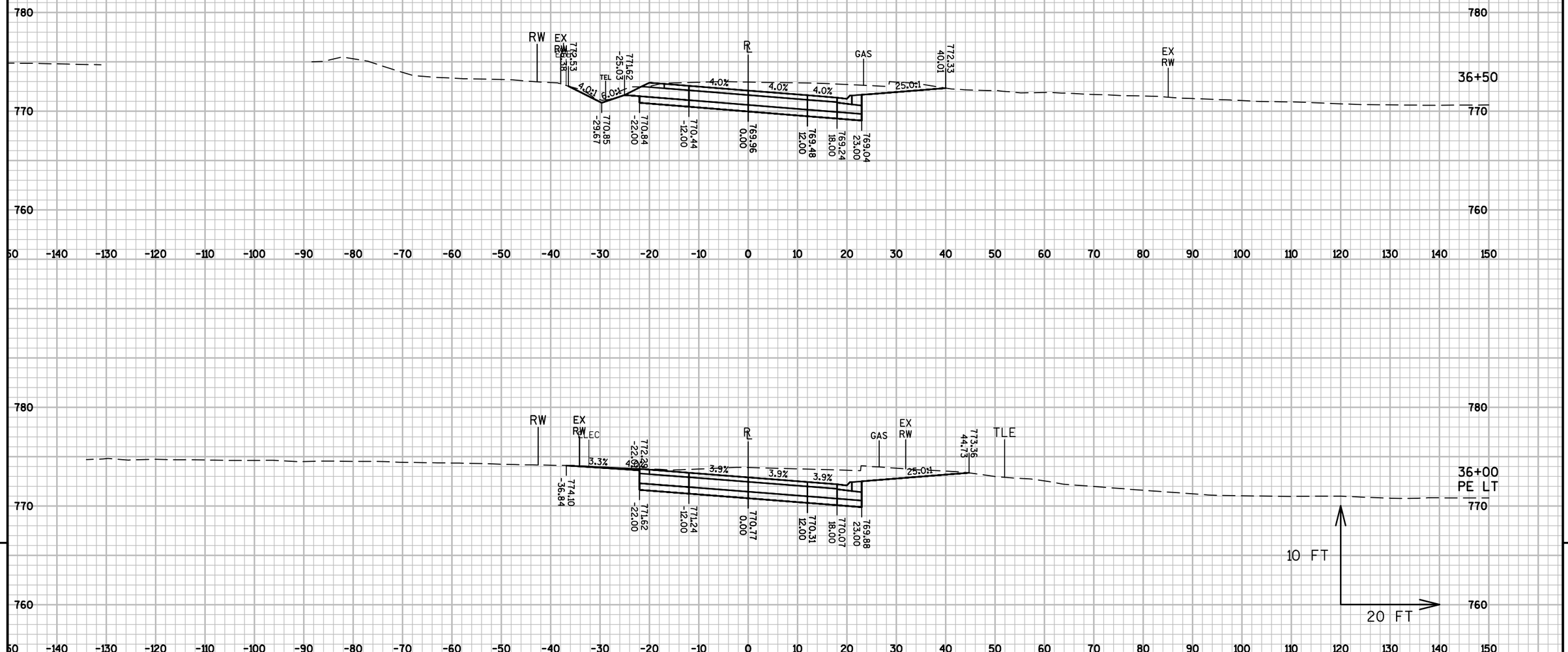
PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: 58TH ROAD	SHEET	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090202-XS-58TH.DWG
LAYOUT NAME - 02

PLOT DATE : 7/27/2017 8:02 AM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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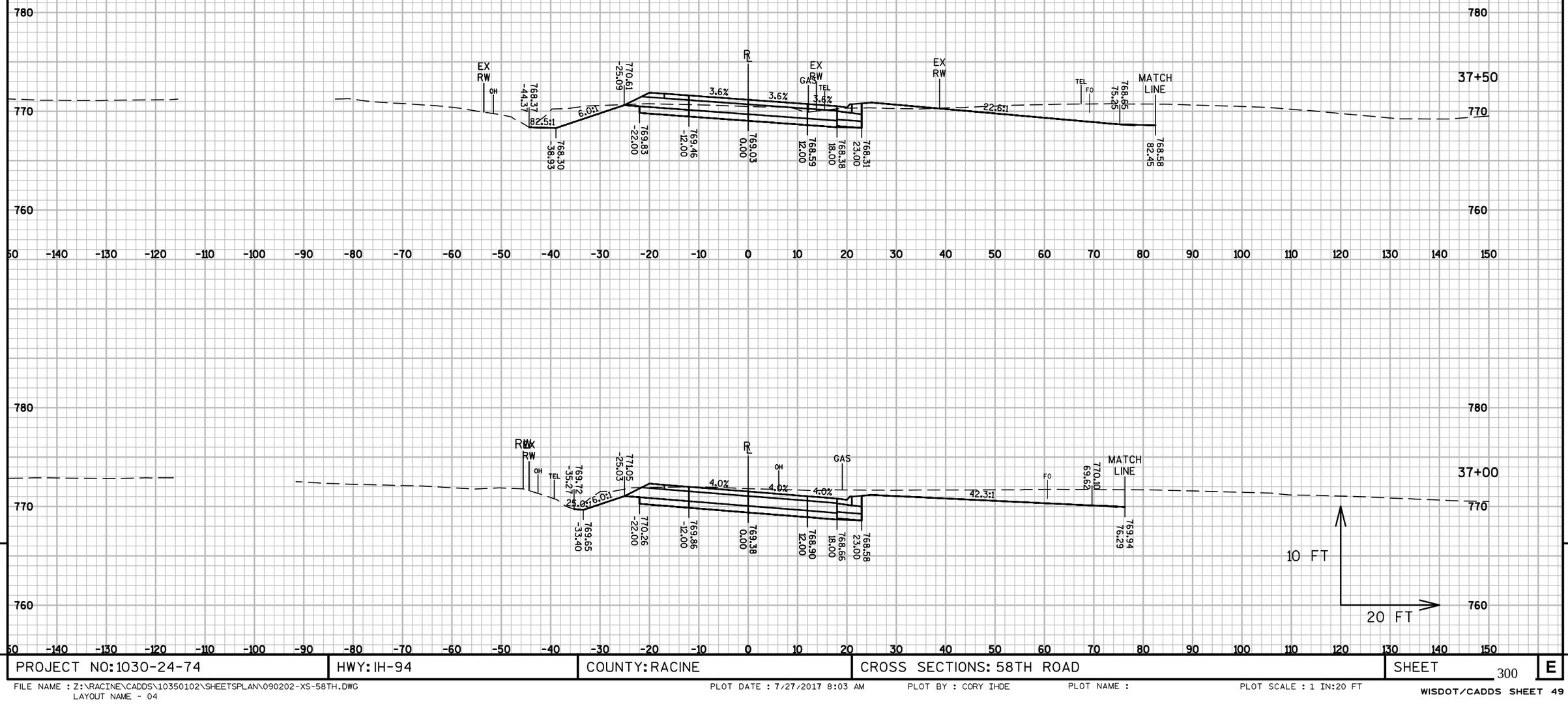
PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: 58TH ROAD	SHEET 299	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090202-XS-58TH.DWG
LAYOUT NAME - 03

PLOT DATE : 7/27/2017 8:02 AM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT

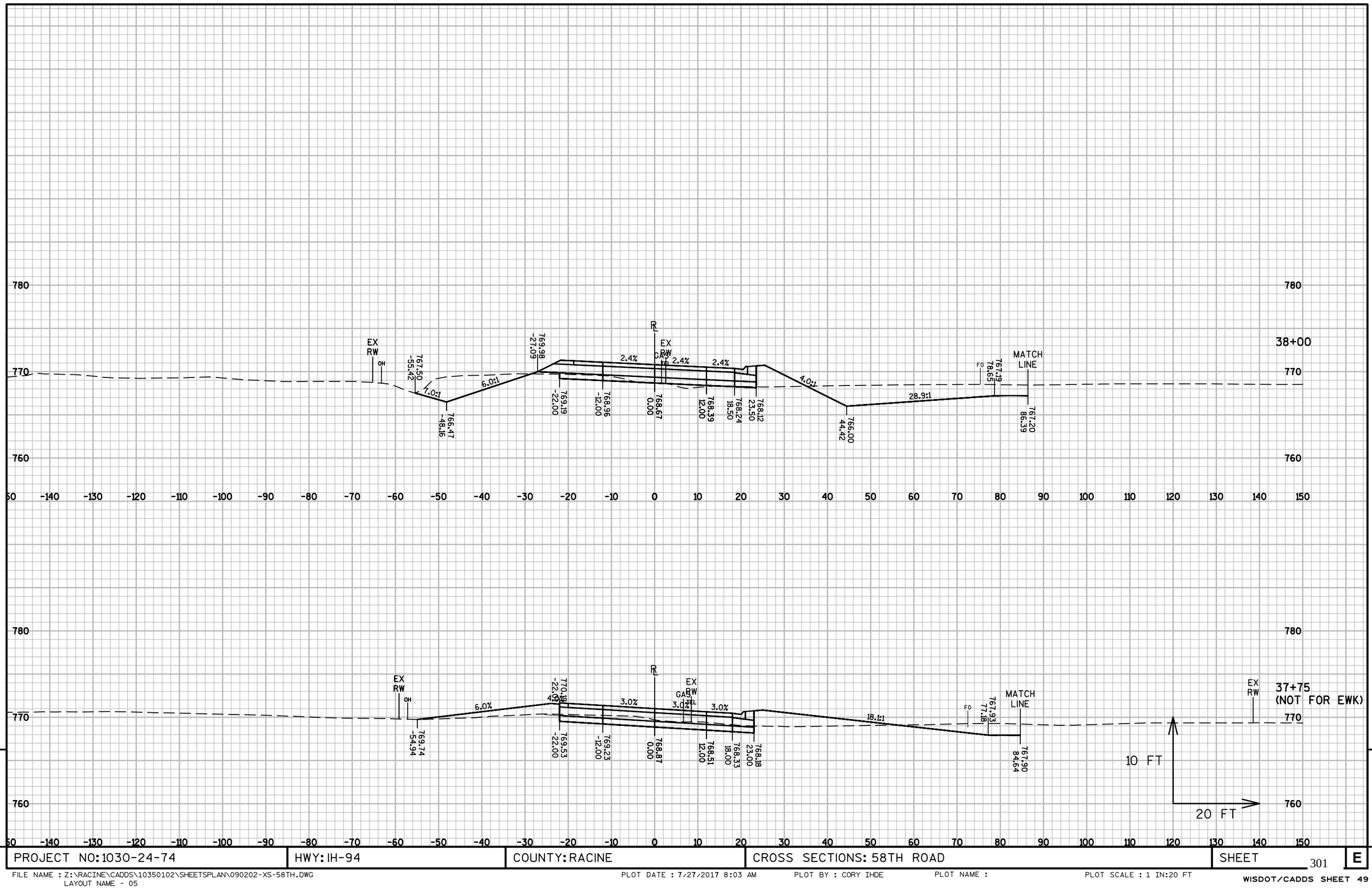
WISDOT/CADDS SHEET 49



PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: 58TH ROAD	SHEET 300 E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090202-XS-58TH.DWG
LAYOUT NAME - 04

PLOT DATE : 7/27/2017 8:03 AM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT

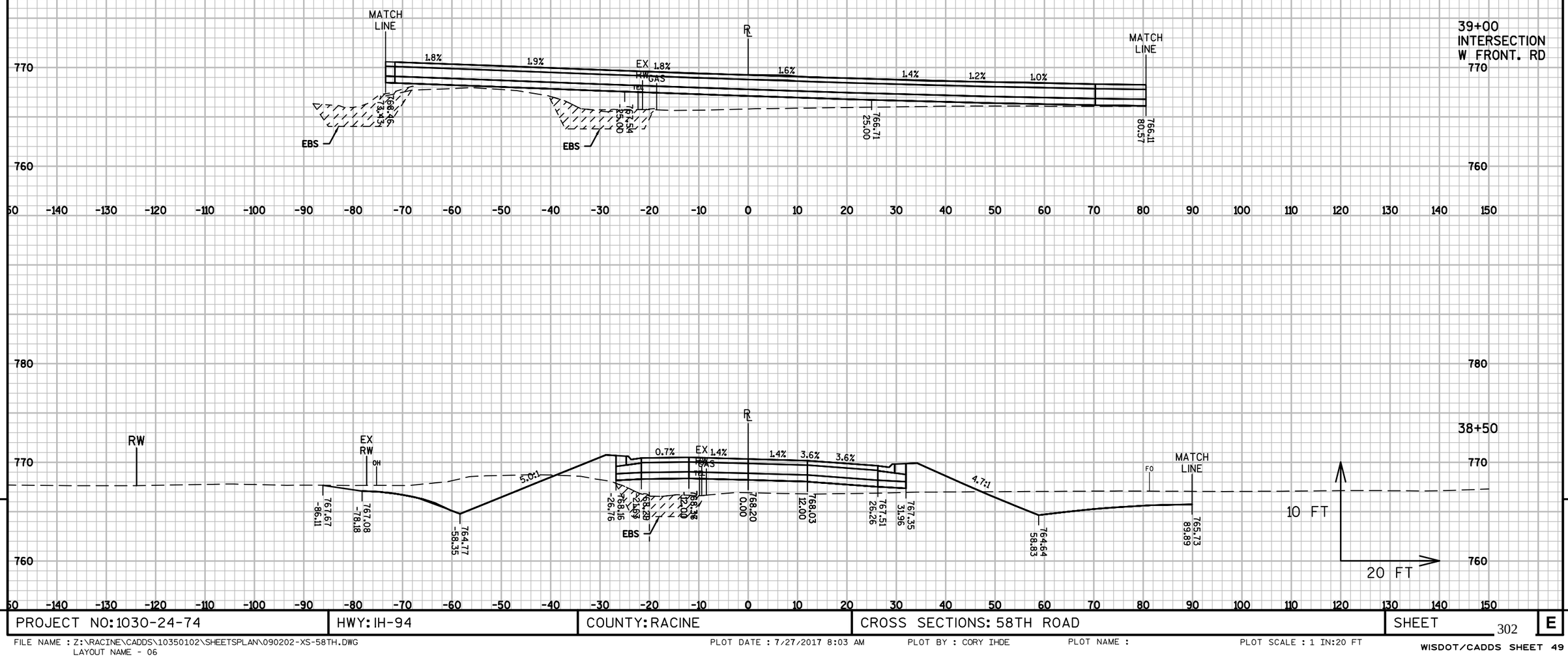


PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: 58TH ROAD	SHEET 301	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090202-XS-58TH.DWG
LAYOUT NAME - 05

PLOT DATE : 7/27/2017 8:03 AM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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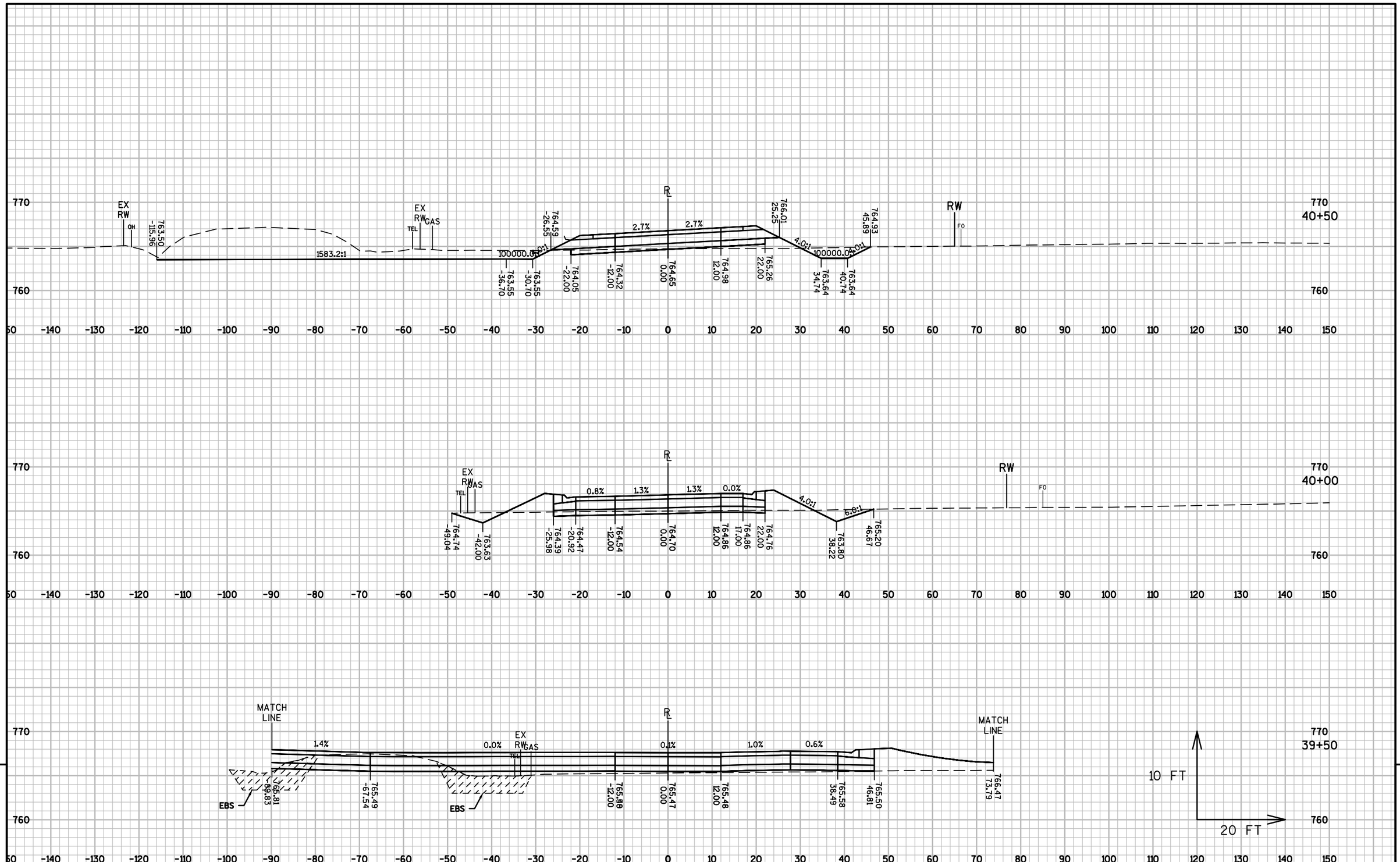
PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: 58TH ROAD	SHEET	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090202-XS-58TH.DWG
LAYOUT NAME - 06

PLOT DATE : 7/27/2017 8:03 AM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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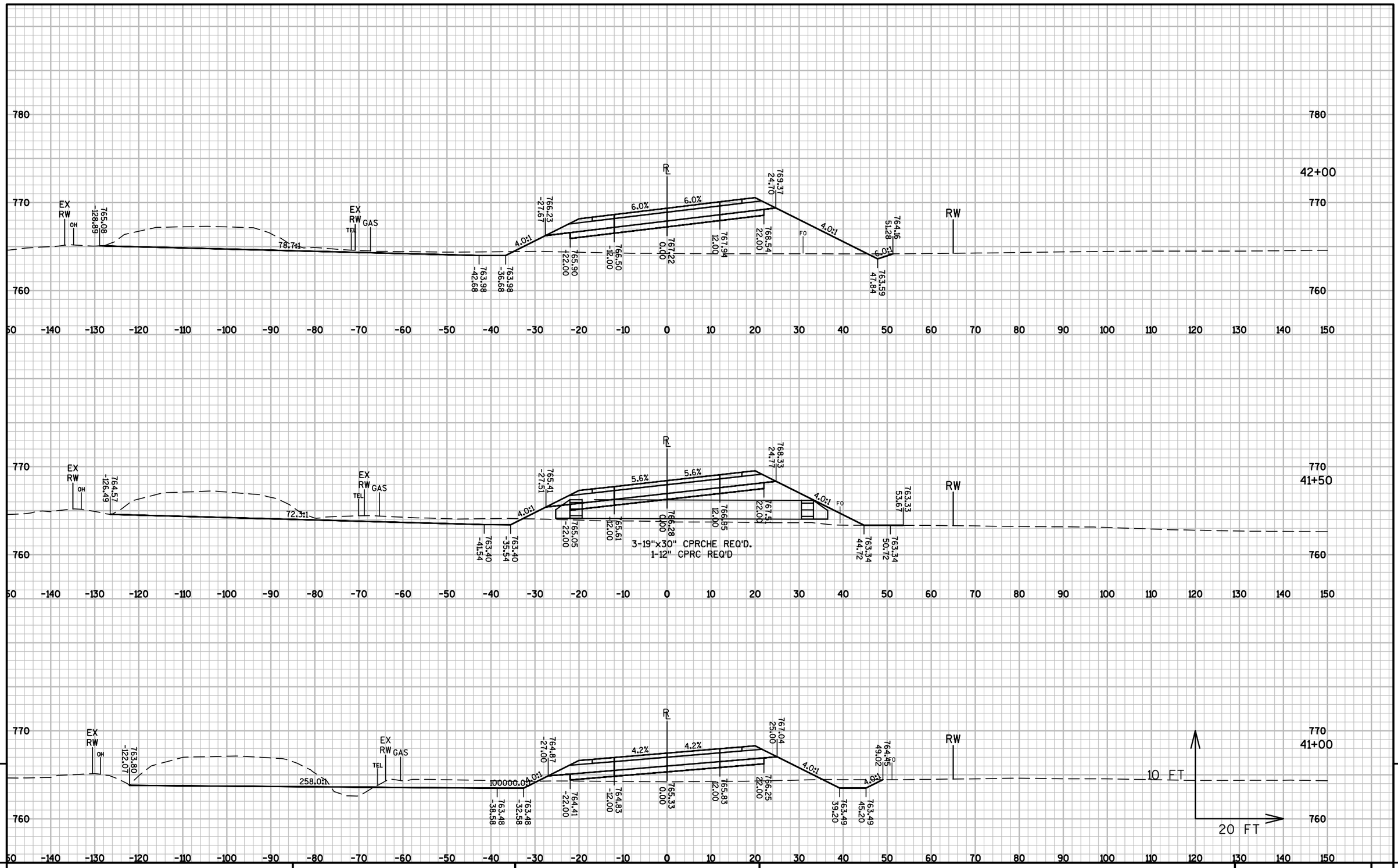
PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: 58TH ROAD	SHEET 303	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090202-XS-58TH.DWG
LAYOUT NAME - 07

PLOT DATE : 7/27/2017 8:03 AM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

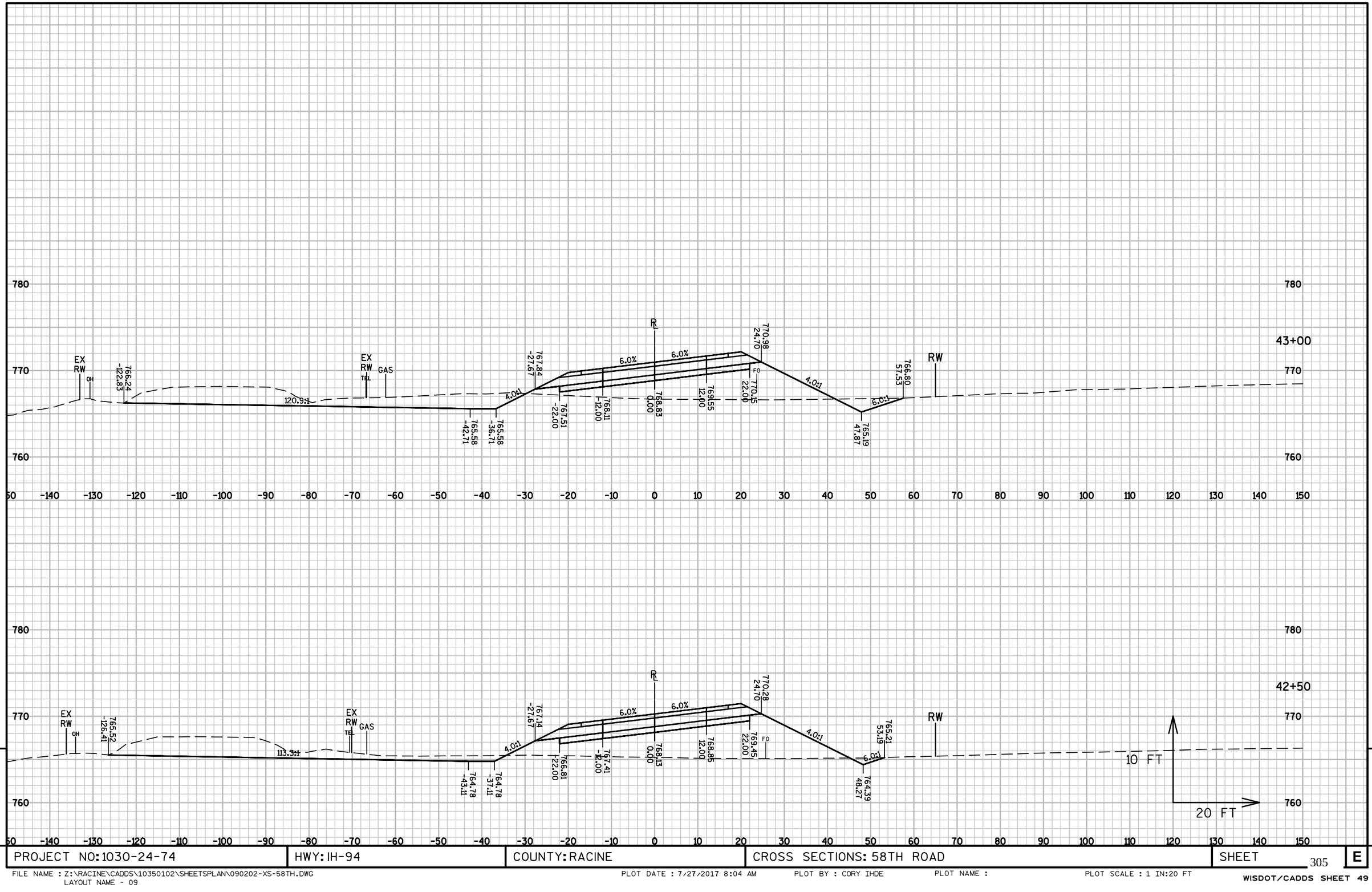


PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: 58TH ROAD	SHEET 304	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090202-XS-58TH.DWG
LAYOUT NAME - 08

PLOT DATE : 7/27/2017 8:04 AM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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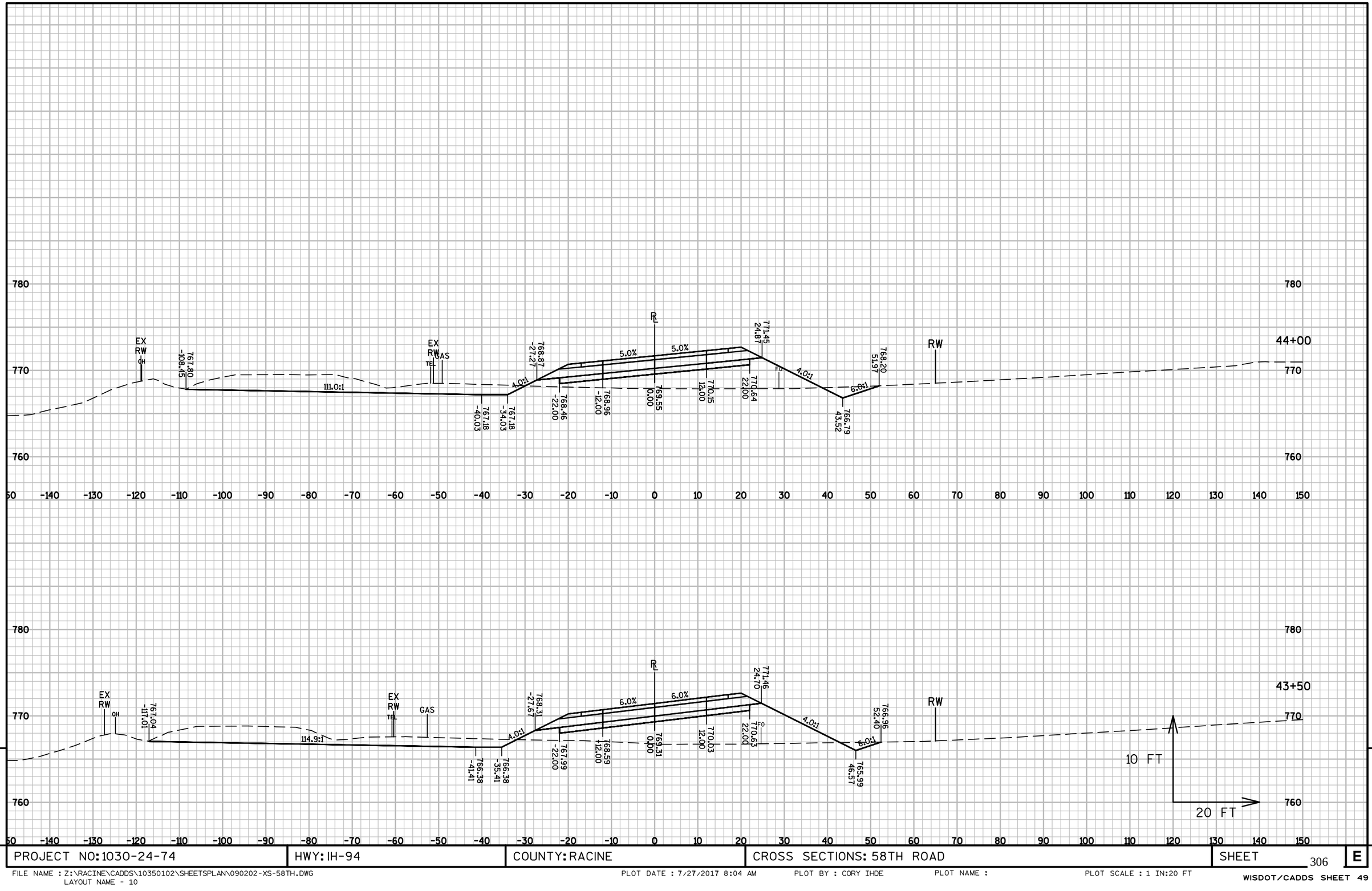
PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: 58TH ROAD	SHEET	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090202-XS-58TH.DWG
LAYOUT NAME - 09

PLOT DATE : 7/27/2017 8:04 AM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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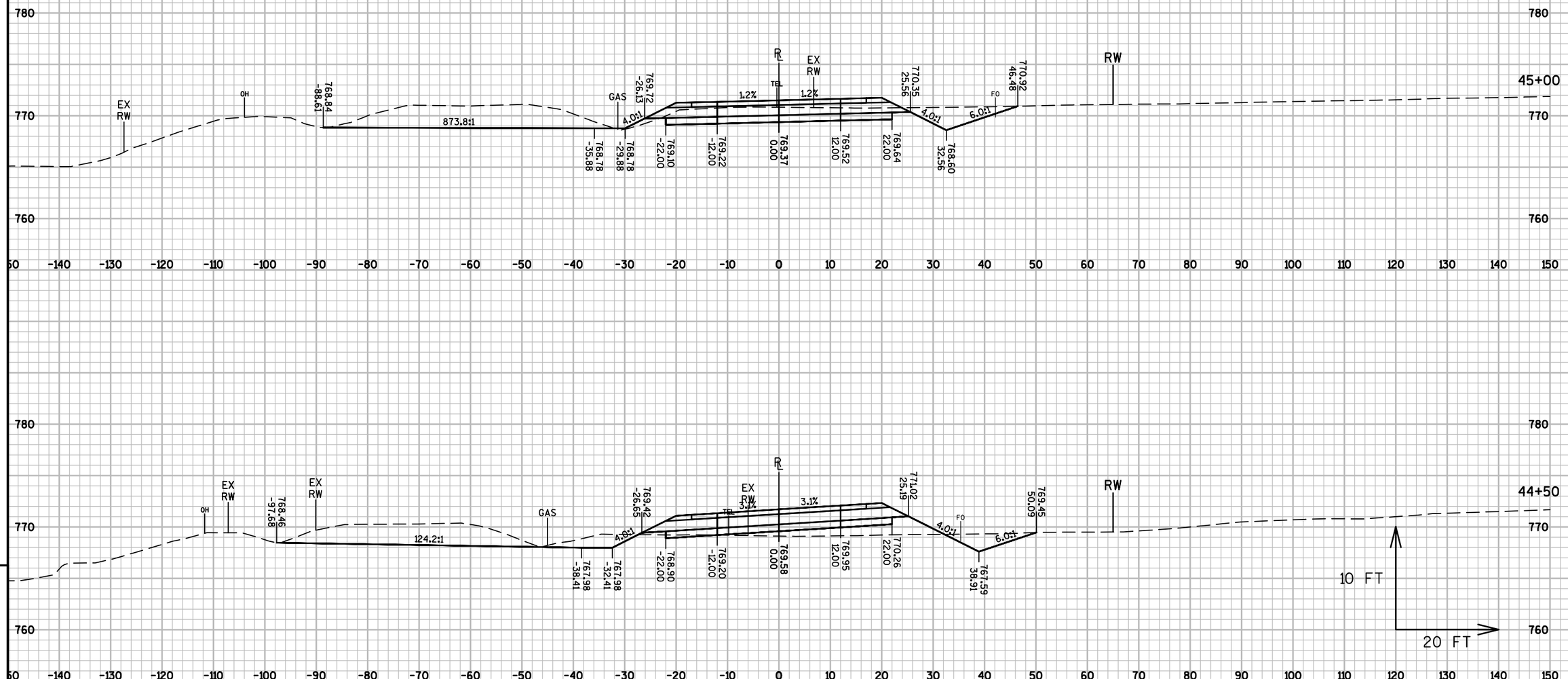
PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: 58TH ROAD	SHEET	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090202-XS-58TH.DWG
LAYOUT NAME - 10

PLOT DATE : 7/27/2017 8:04 AM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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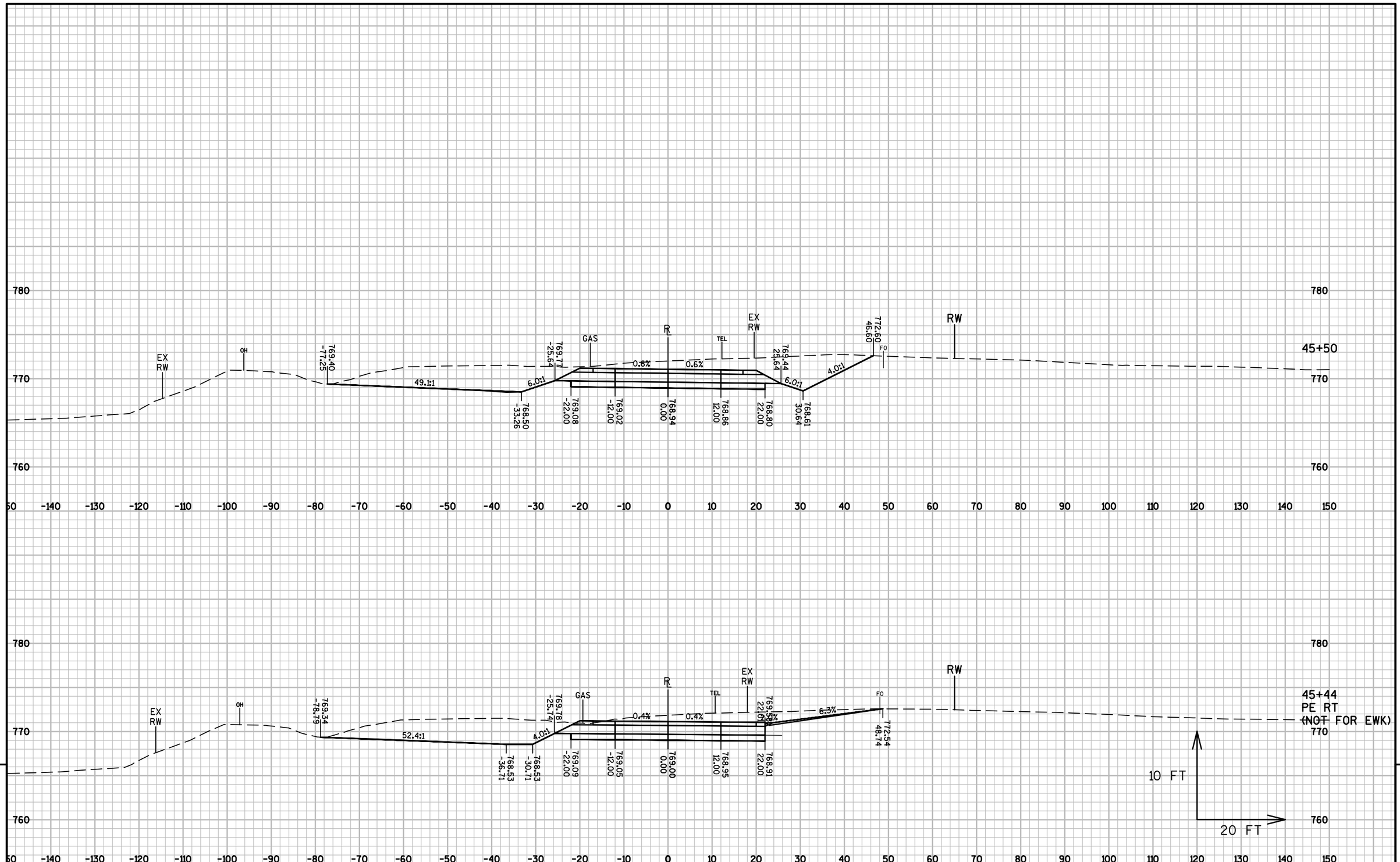
PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: 58TH ROAD	SHEET	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090202-XS-58TH.DWG
LAYOUT NAME - 11

PLOT DATE : 7/27/2017 8:04 AM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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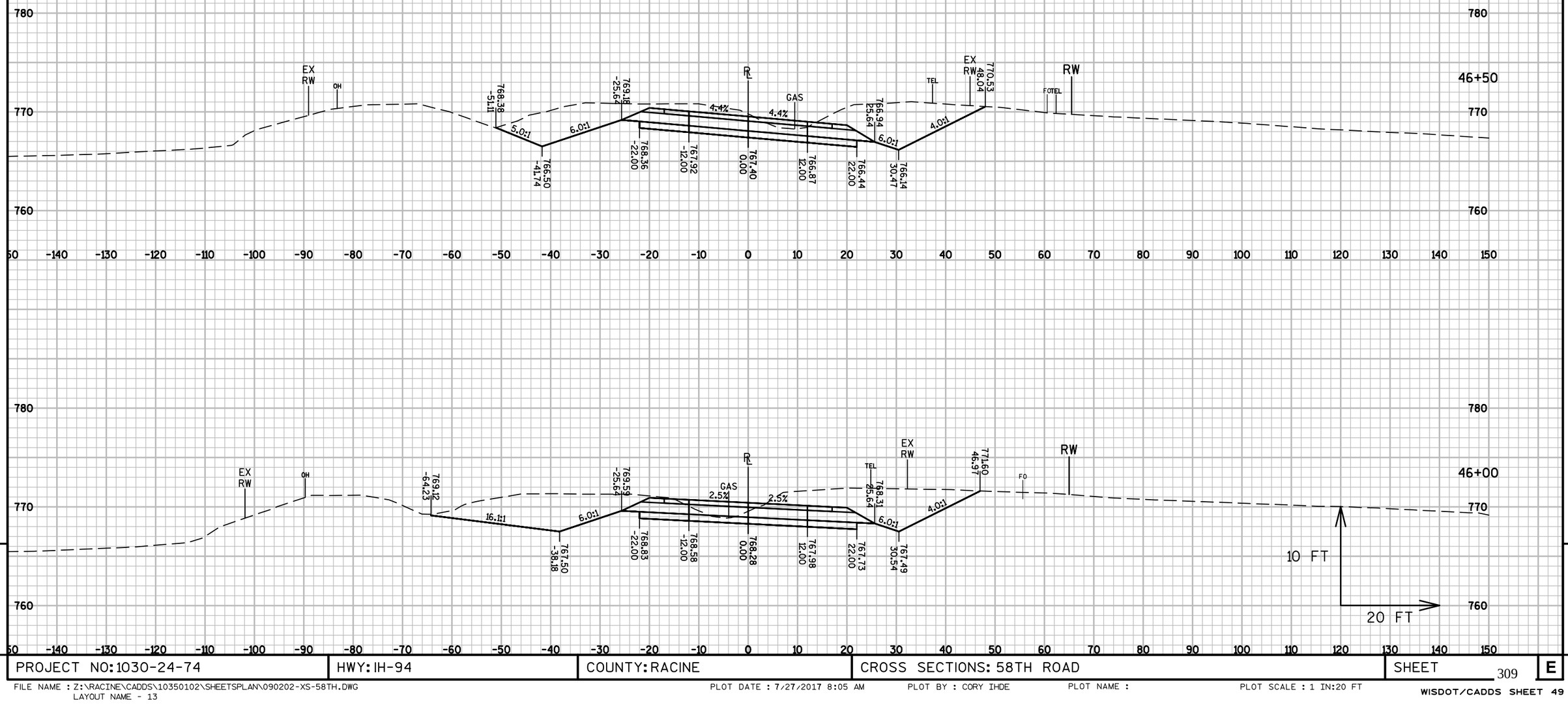
PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: 58TH ROAD	SHEET	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090202-XS-58TH.DWG
LAYOUT NAME - 12

PLOT DATE : 7/27/2017 8:05 AM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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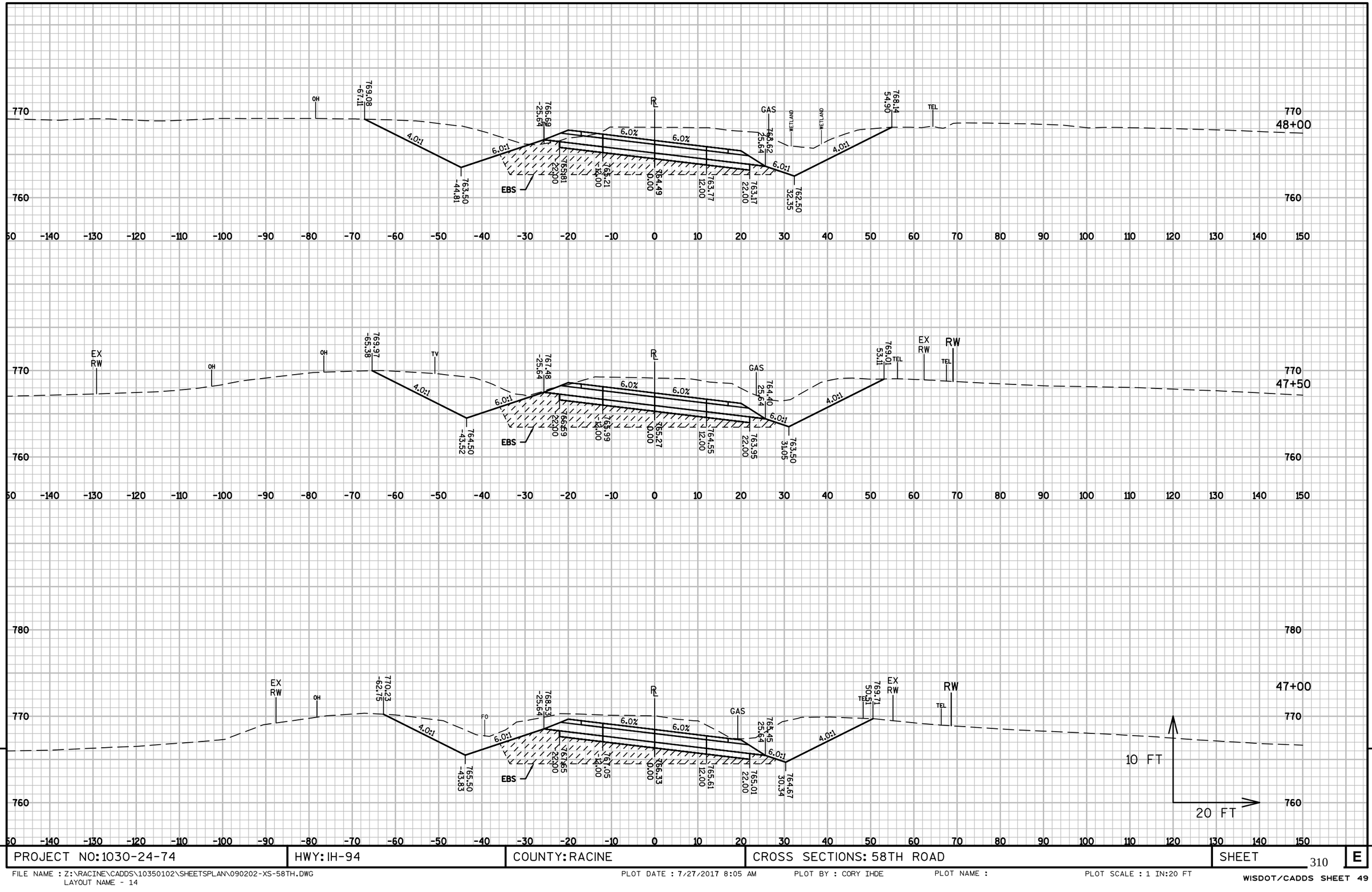
PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: 58TH ROAD	SHEET	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090202-XS-58TH.DWG
LAYOUT NAME - 13

PLOT DATE : 7/27/2017 8:05 AM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

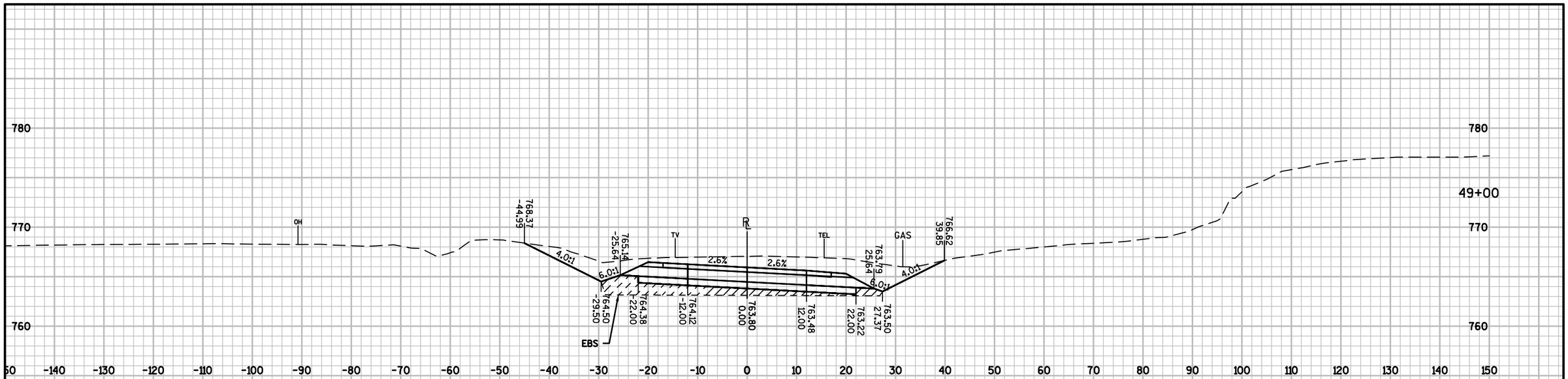


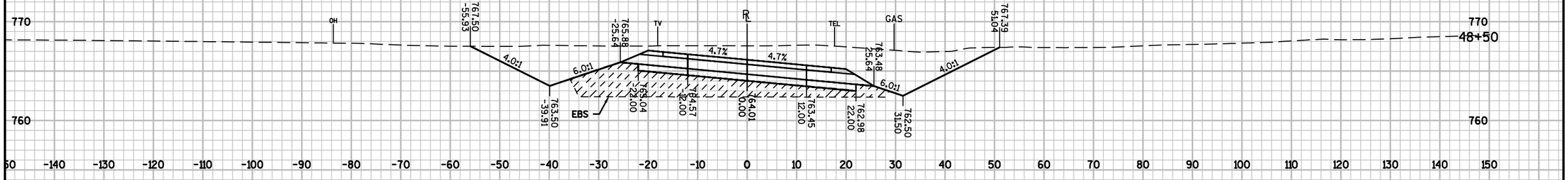
PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: 58TH ROAD	SHEET	E

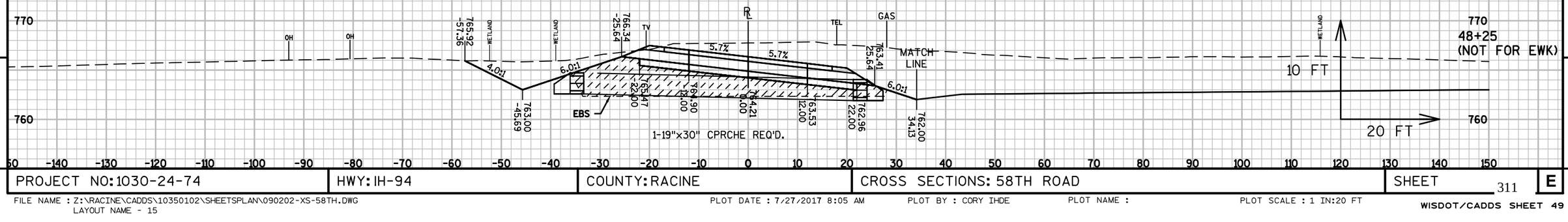
FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090202-XS-58TH.DWG
LAYOUT NAME - 14

PLOT DATE : 7/27/2017 8:05 AM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49







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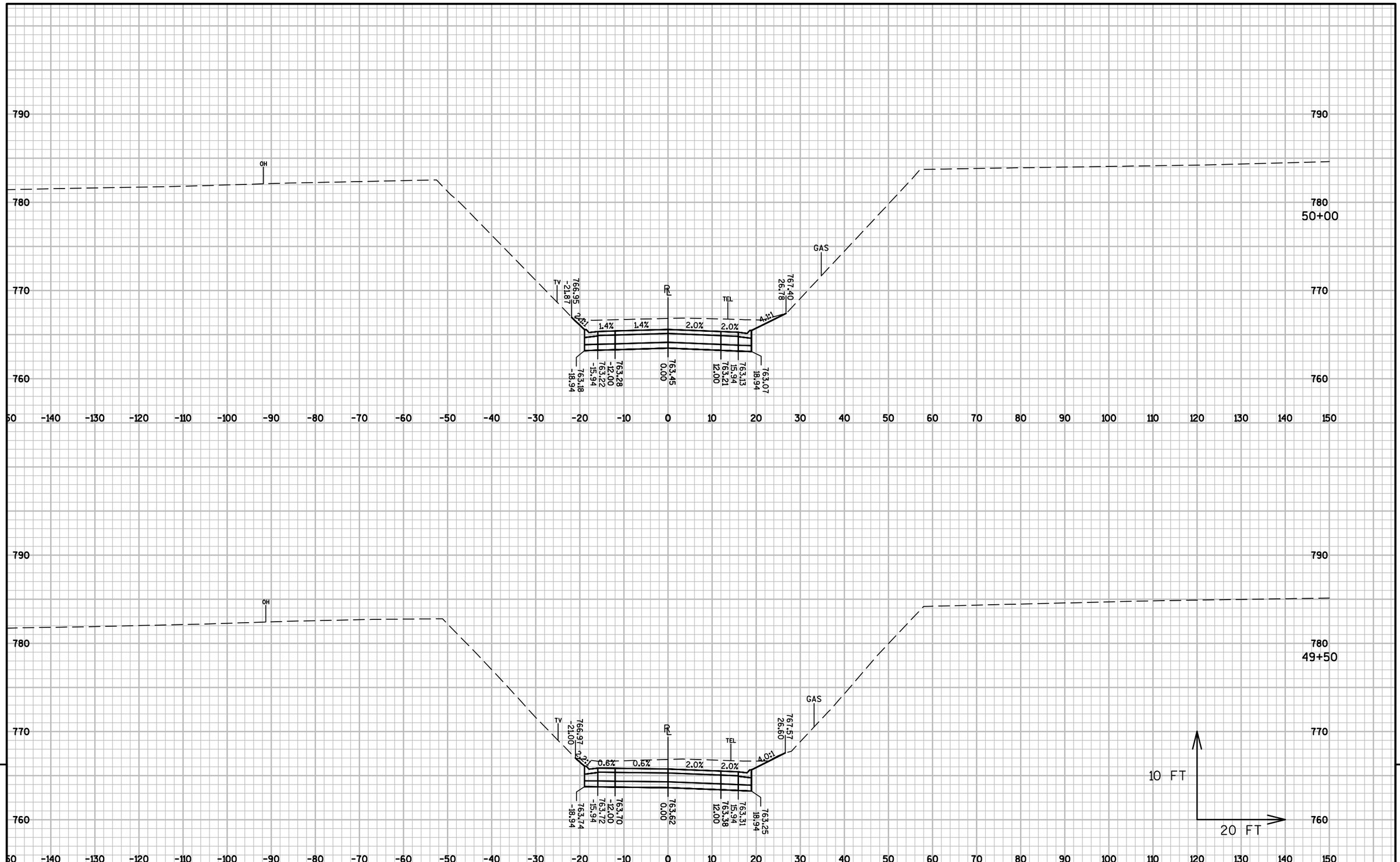
PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: 58TH ROAD	SHEET 311	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090202-XS-58TH.DWG
LAYOUT NAME - 15

PLOT DATE : 7/27/2017 8:05 AM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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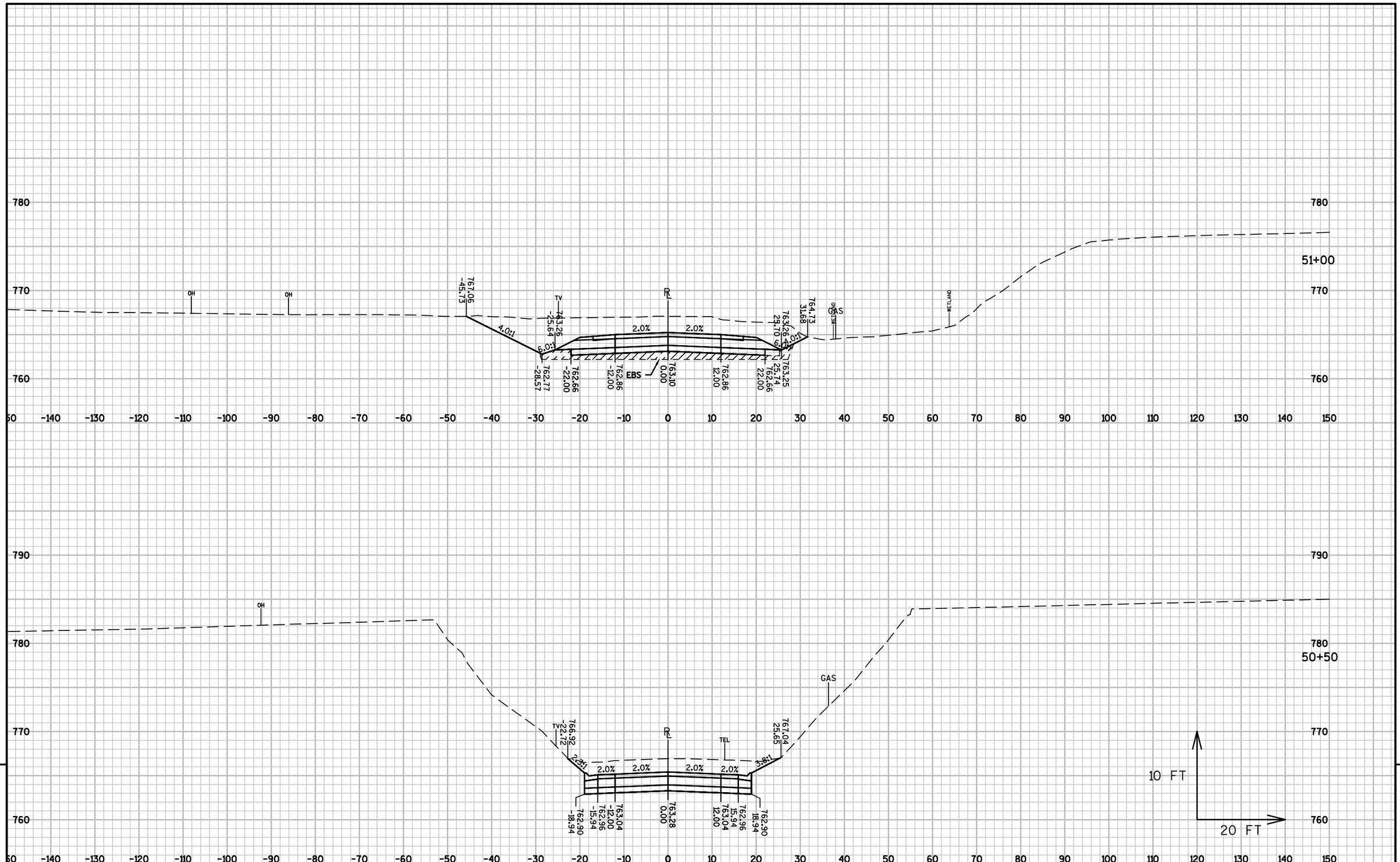
9

PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: 58TH ROAD	SHEET	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090202-XS-58TH.DWG
LAYOUT NAME - 16

PLOT DATE : 7/27/2017 8:06 AM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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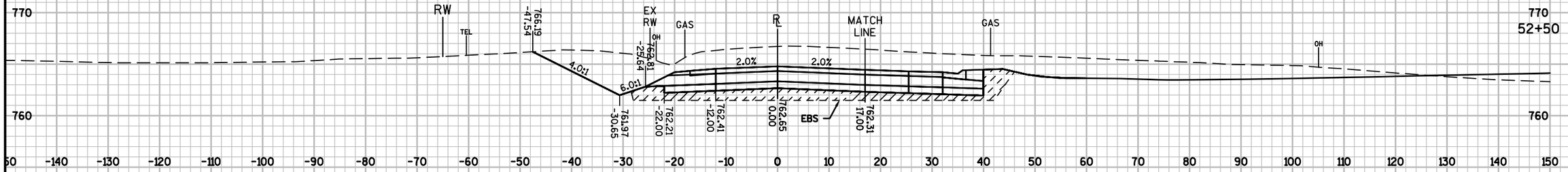
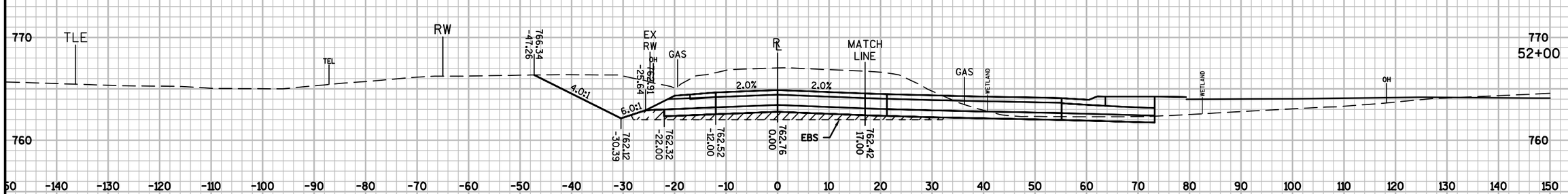
PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: 58TH ROAD	SHEET	E

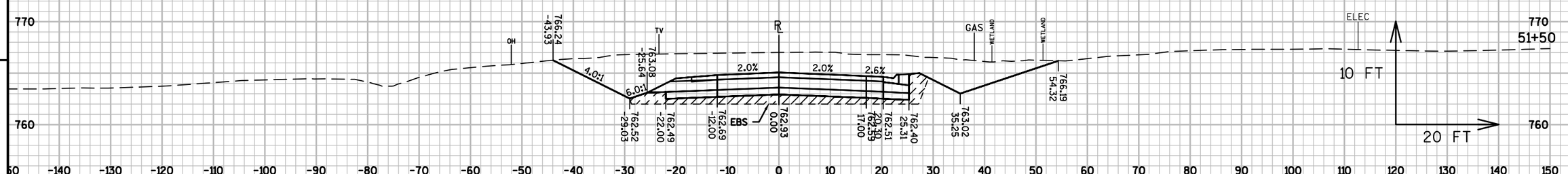
FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090202-XS-58TH.DWG
LAYOUT NAME - 17

PLOT DATE : 7/27/2017 8:06 AM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49







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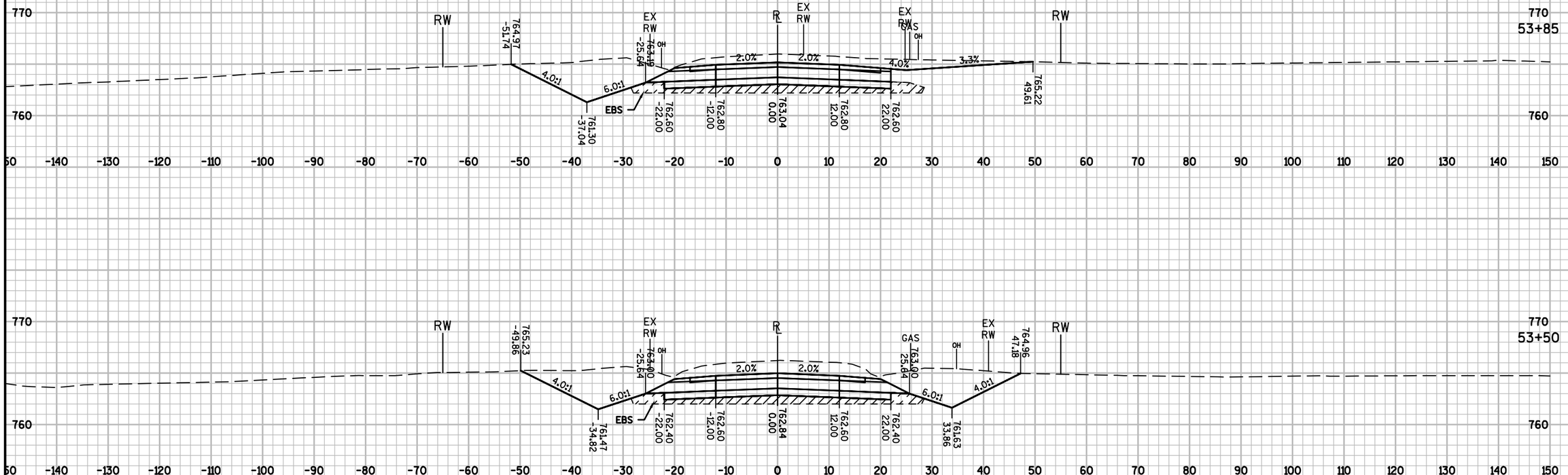
PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: 58TH ROAD	SHEET 314	E



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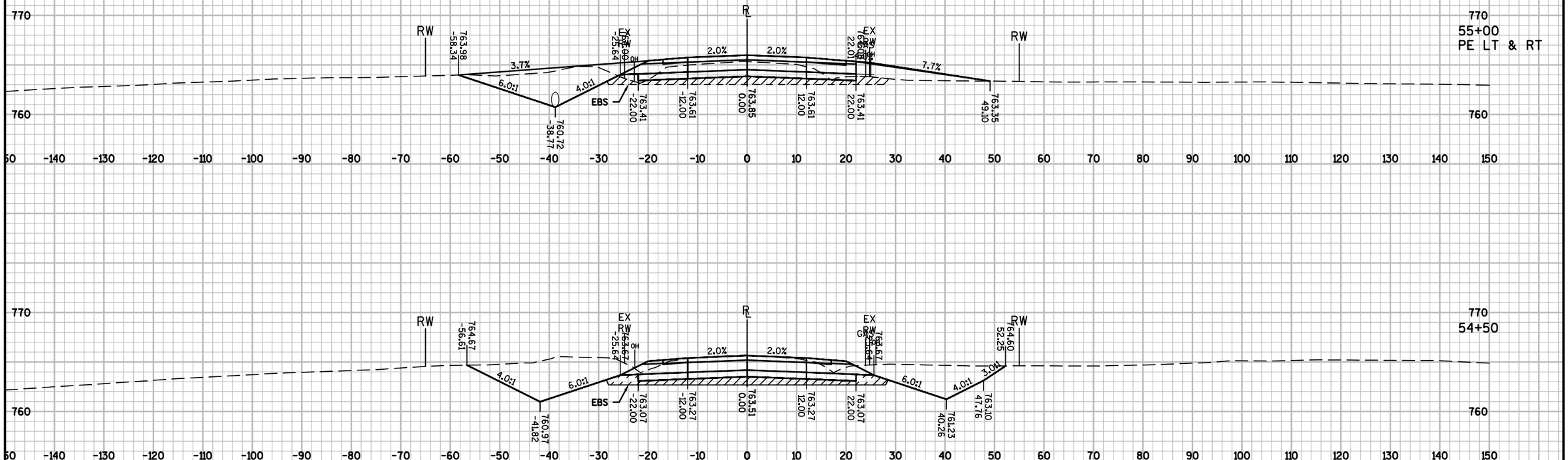
PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: 58TH ROAD	SHEET 315	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090202-XS-58TH.DWG
LAYOUT NAME - 19

PLOT DATE : 7/27/2017 8:06 AM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

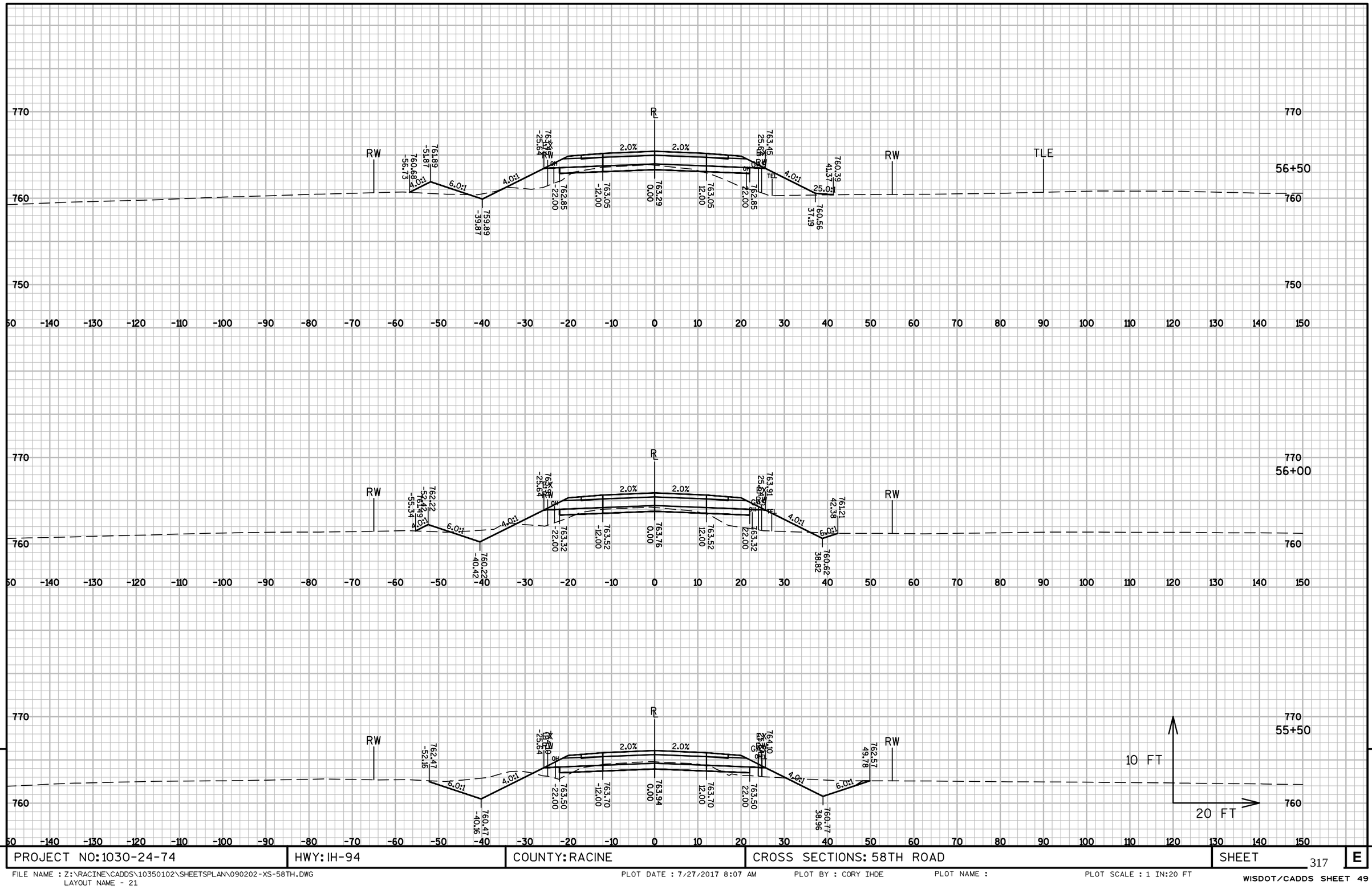


9 9

PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: 58TH ROAD	SHEET 316 E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090202-XS-58TH.DWG
LAYOUT NAME - 20

PLOT DATE : 7/27/2017 8:07 AM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT



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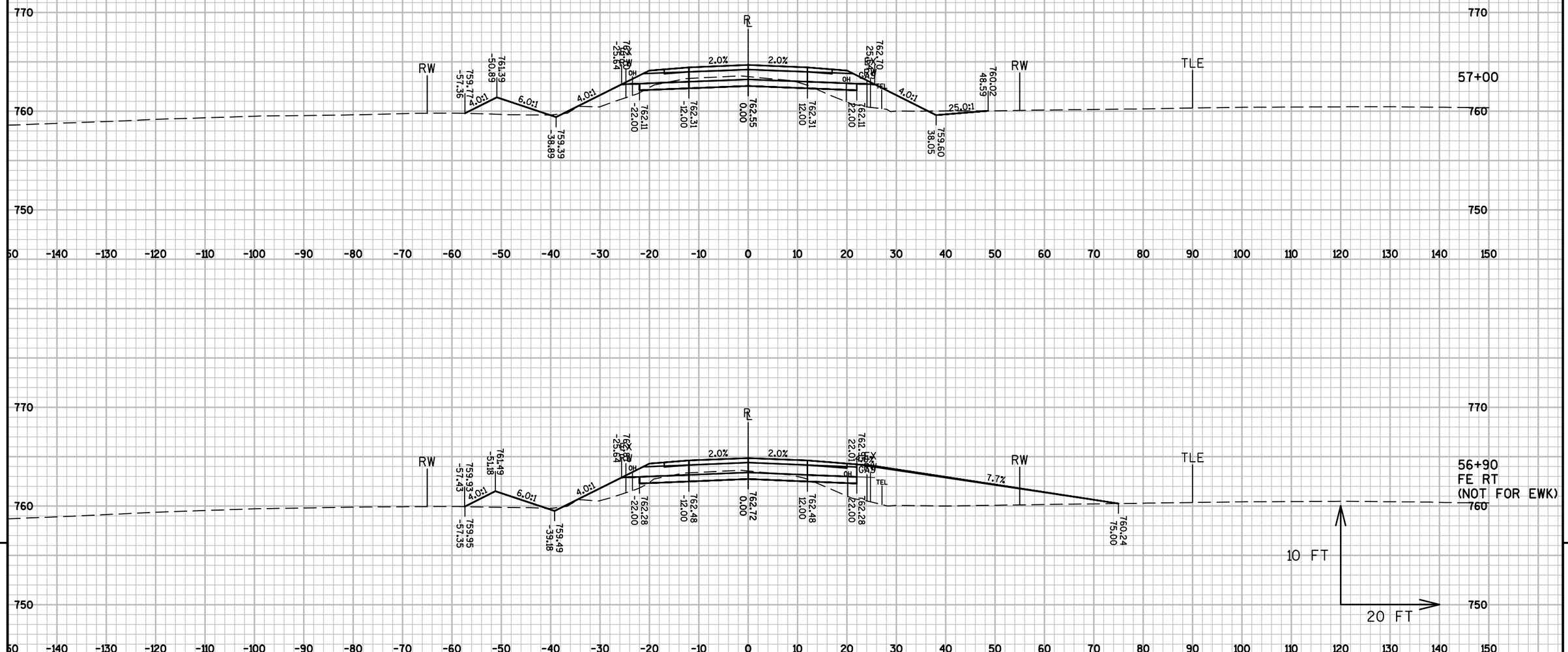
PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: 58TH ROAD	SHEET 317 E

9

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090202-XS-58TH.DWG
LAYOUT NAME - 21

PLOT DATE : 7/27/2017 8:07 AM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT



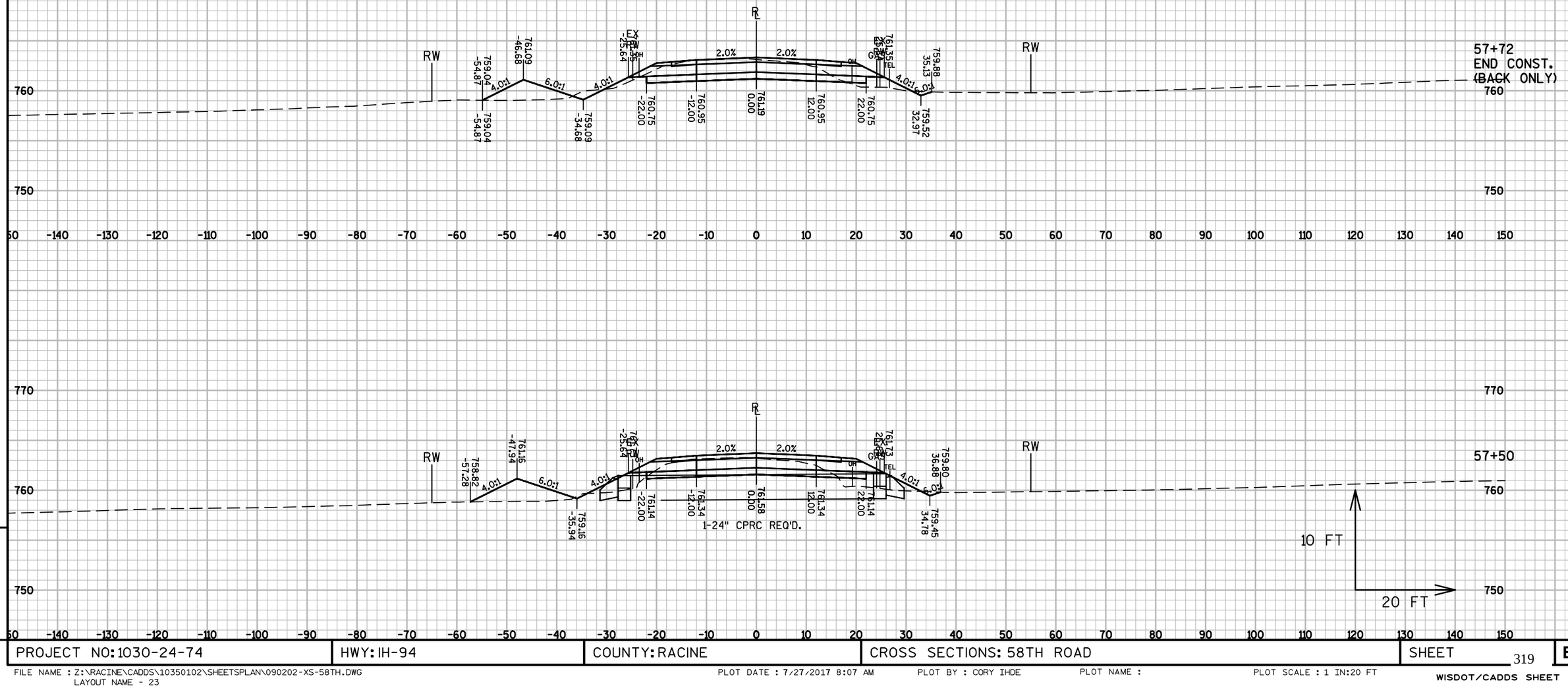
PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: 58TH ROAD	SHEET 318 E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090202-XS-58TH.DWG
LAYOUT NAME - 22

PLOT DATE : 7/27/2017 8:07 AM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

END CONSTRUCTION



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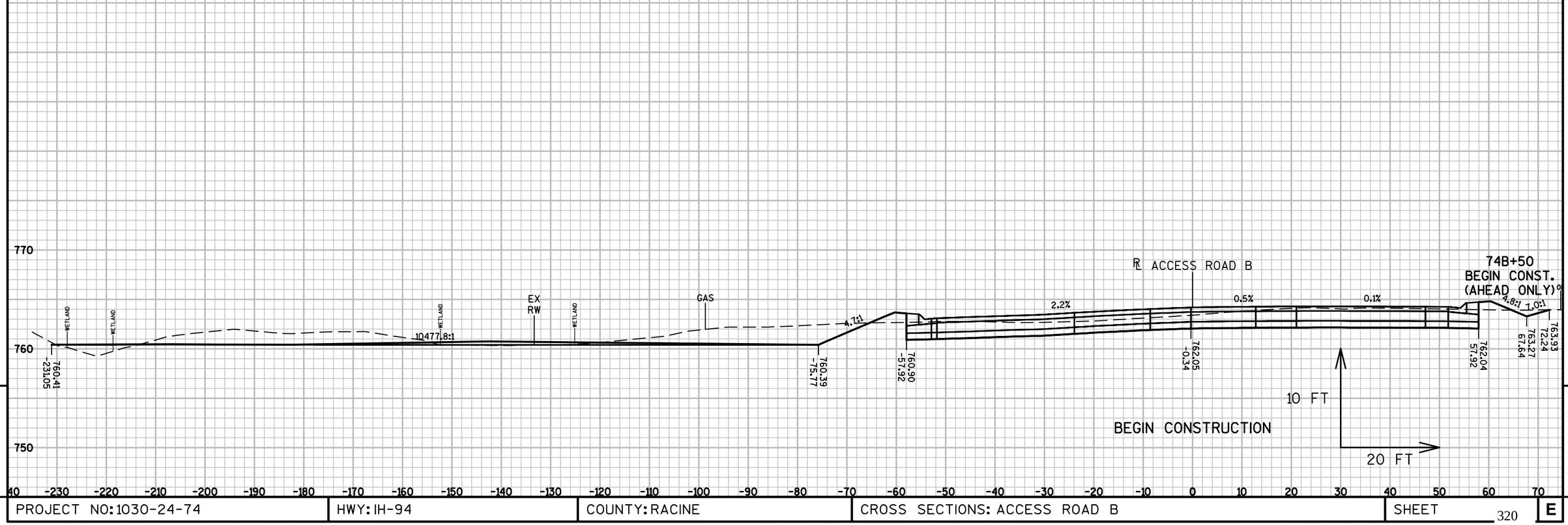
PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: 58TH ROAD	SHEET	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090202-XS-58TH.DWG
LAYOUT NAME - 23

PLOT DATE : 7/27/2017 8:07 AM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



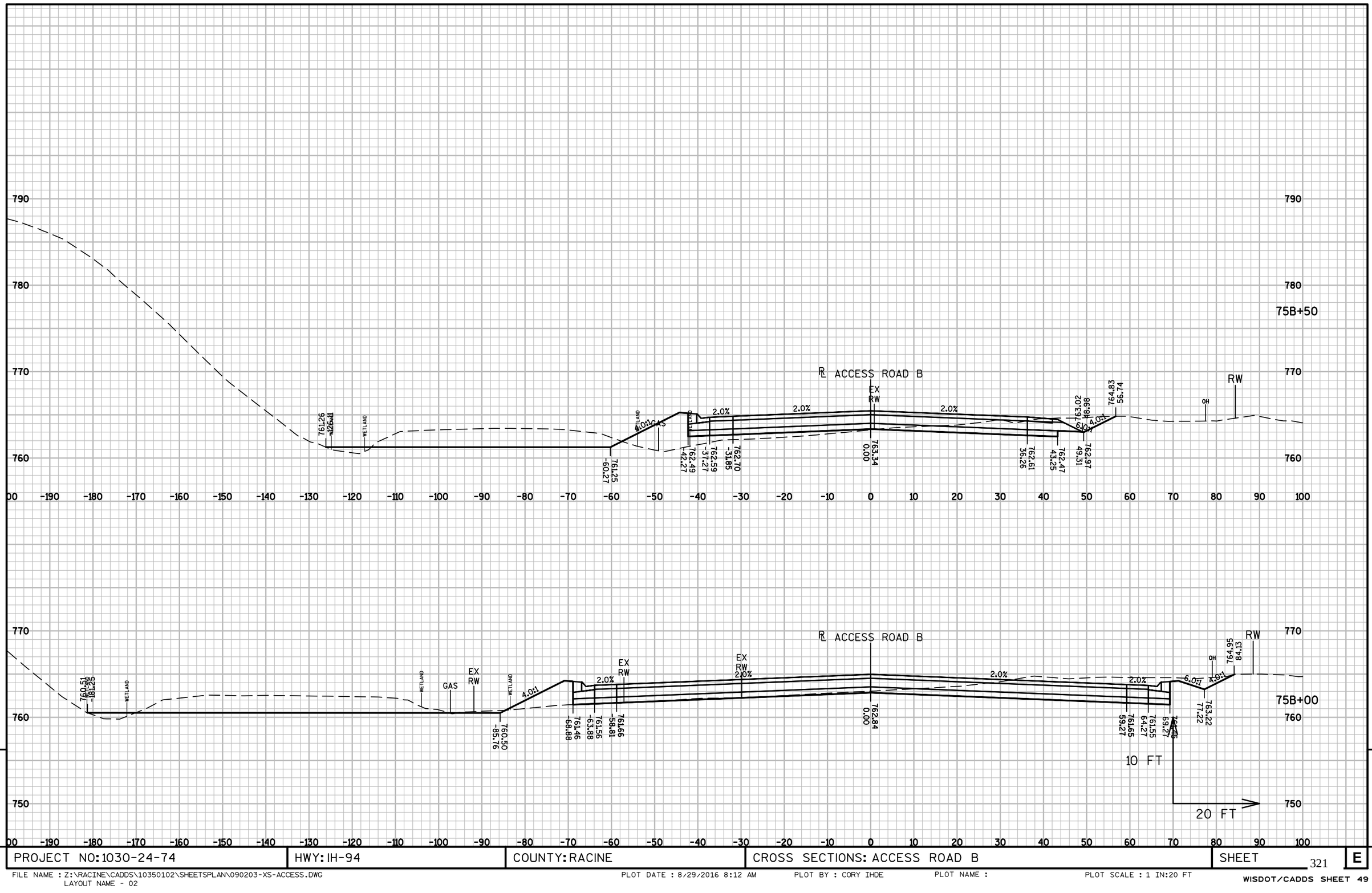
9 9

PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: ACCESS ROAD B	SHEET 320	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090203-XS-ACCESS.DWG
LAYOUT NAME - 01

PLOT DATE : 8/29/2016 8:12 AM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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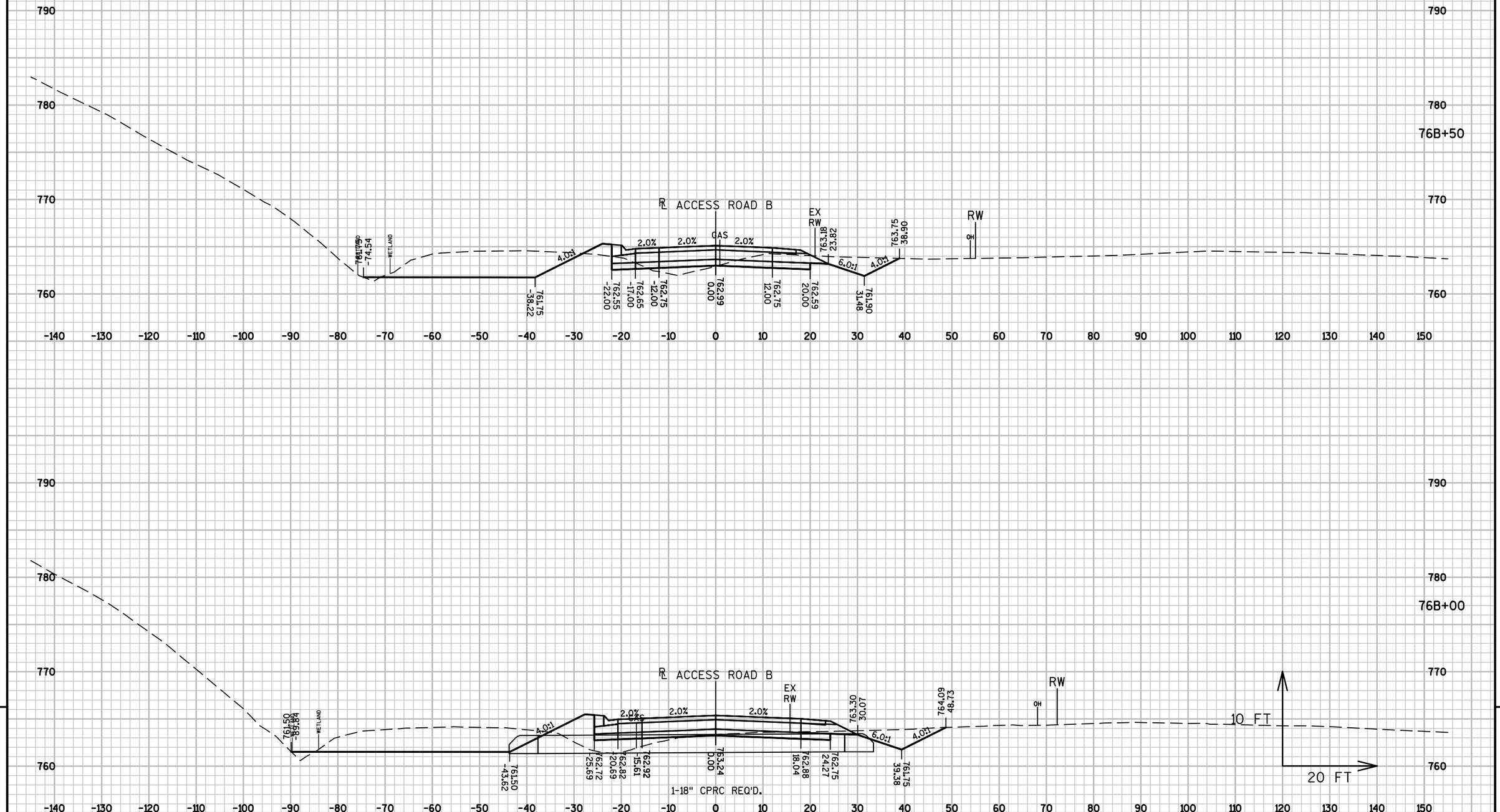
9

PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: ACCESS ROAD B	SHEET	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090203-XS-ACCESS.DWG
LAYOUT NAME - 02

PLOT DATE : 8/29/2016 8:12 AM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

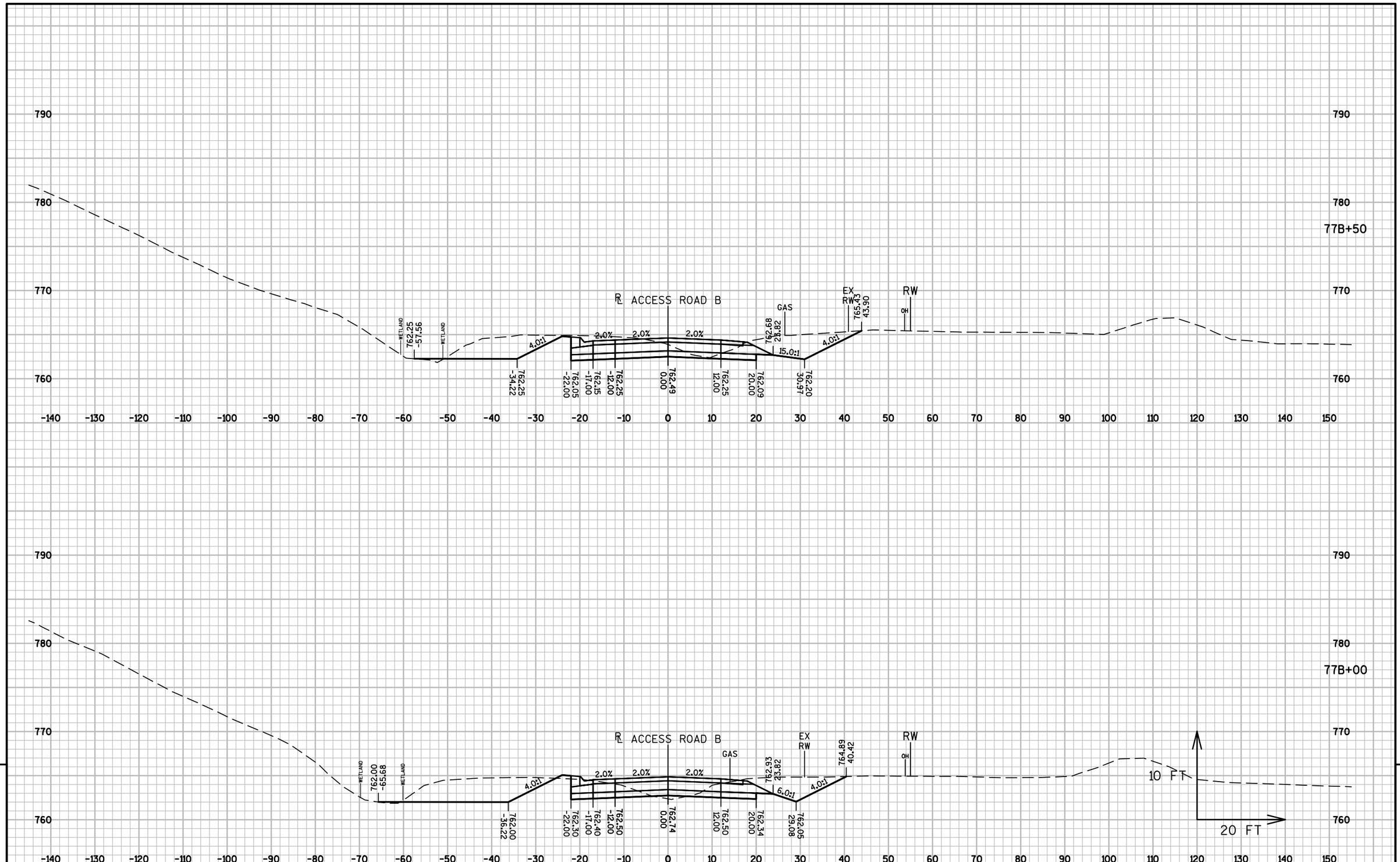


9 9

PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: ACCESS ROAD B	SHEET 322 E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090203-XS-ACCESS.DWG
LAYOUT NAME - 03

PLOT DATE : 8/29/2016 8:12 AM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT



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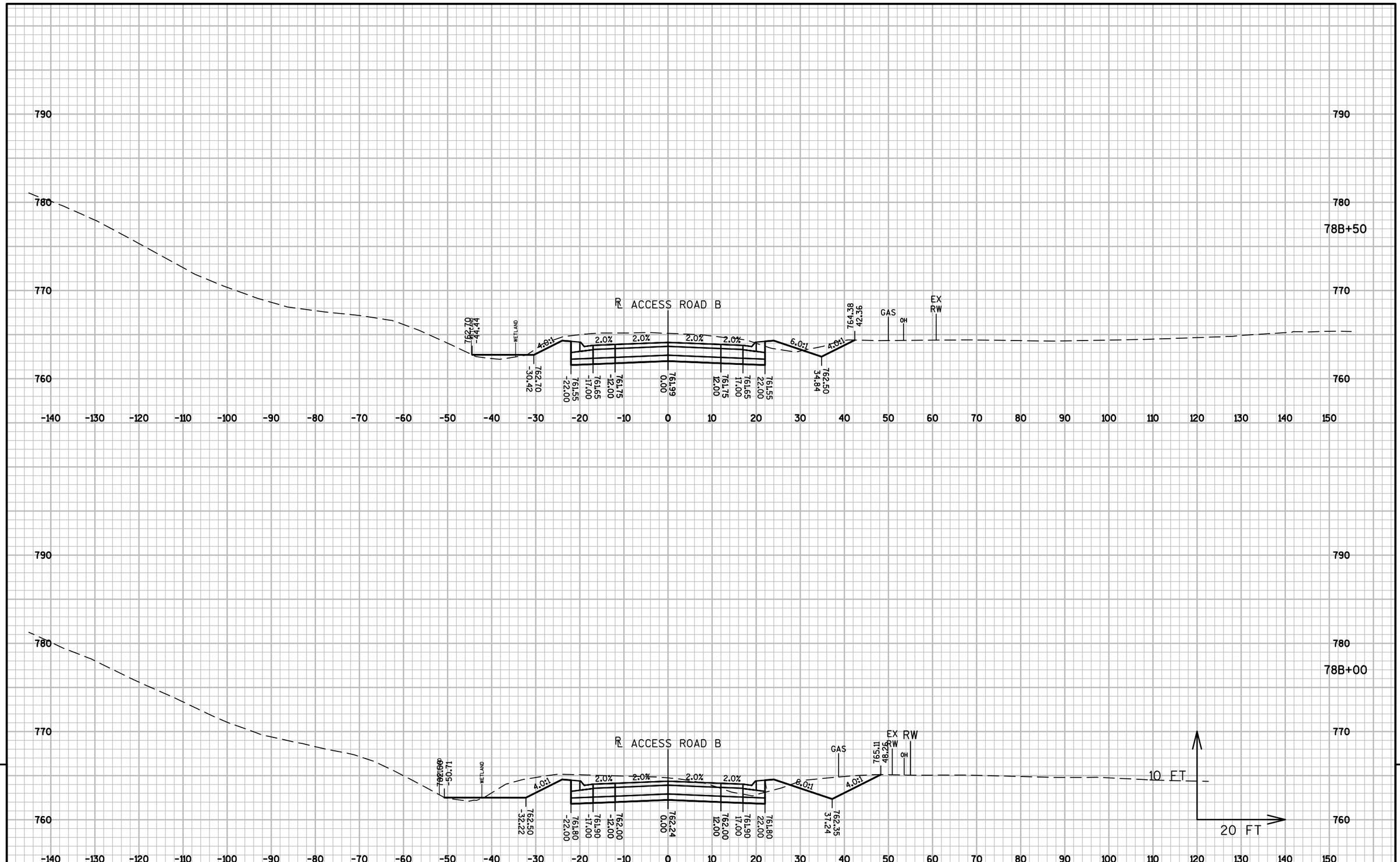
9

PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: ACCESS ROAD B	SHEET 323 E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090203-XS-ACCESS.DWG
LAYOUT NAME - 04

PLOT DATE : 8/29/2016 8:13 AM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT



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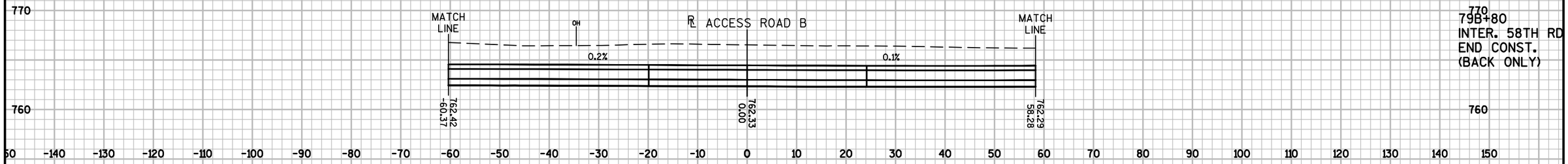
9

PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: ACCESS ROAD B	SHEET 324	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090203-XS-ACCESS.DWG
LAYOUT NAME - 05

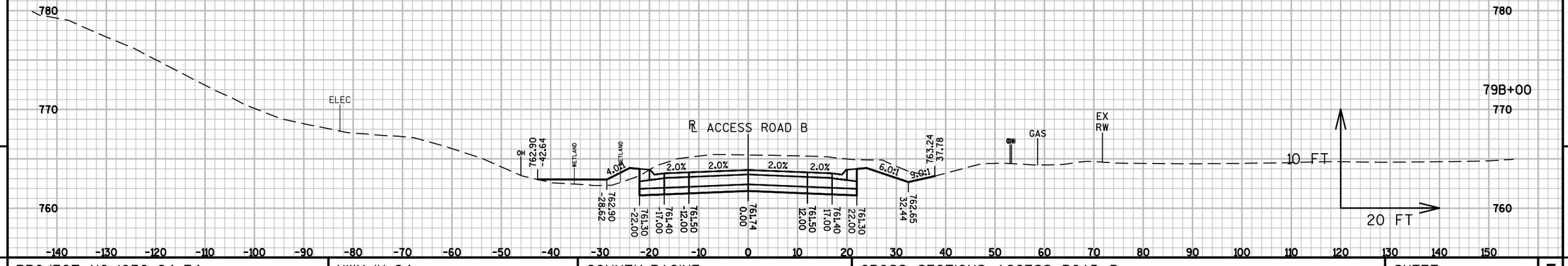
PLOT DATE : 8/29/2016 8:13 AM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT

END CONSTRUCTION



79B+80
INTER. 58TH RD
END CONST.
(BACK ONLY)

79B+50



79B+00

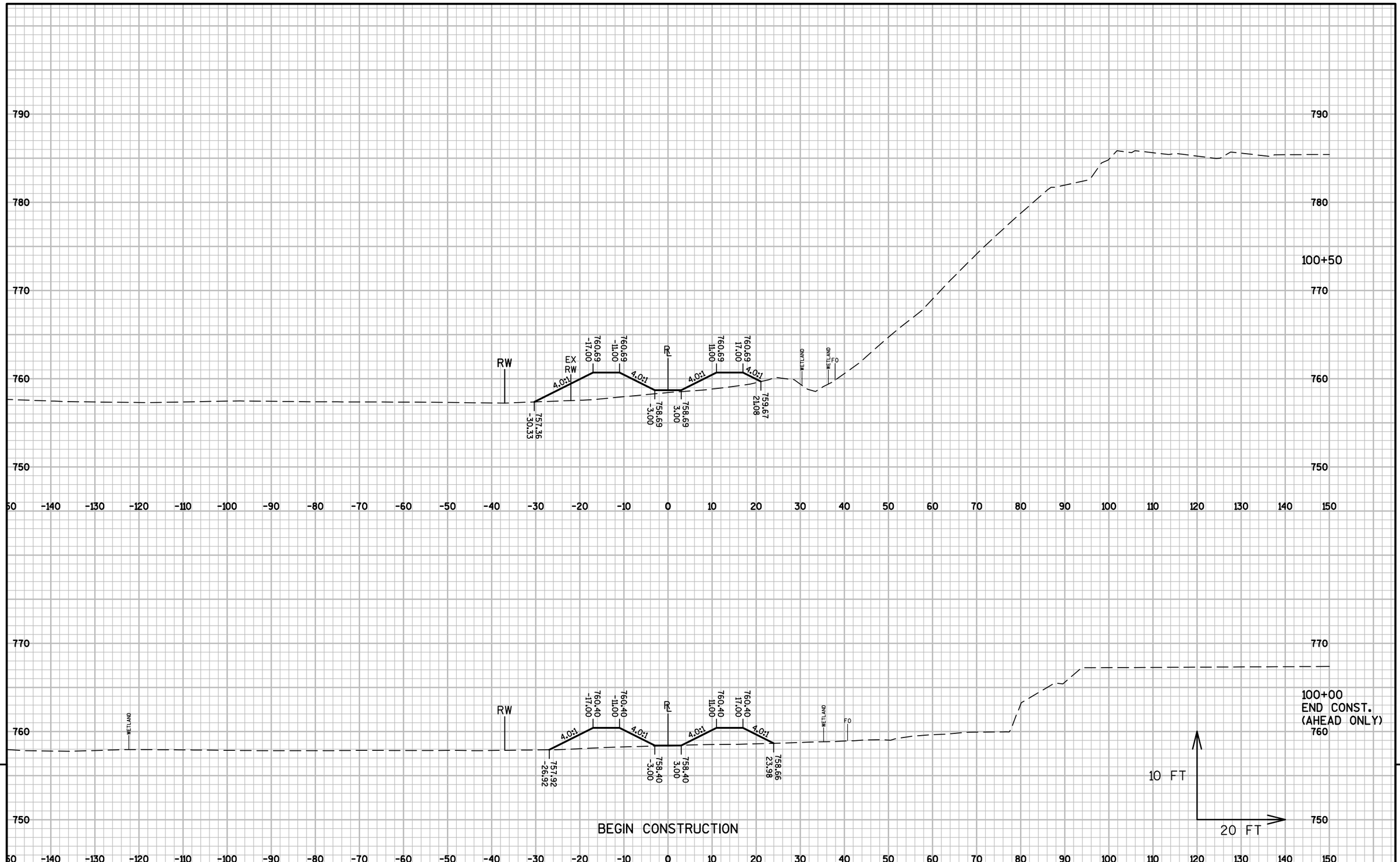
9

9

PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: ACCESS ROAD B	SHEET 325	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090203-XS-ACCESS.DWG
LAYOUT NAME - 06

PLOT DATE : 8/29/2016 8:13 AM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT

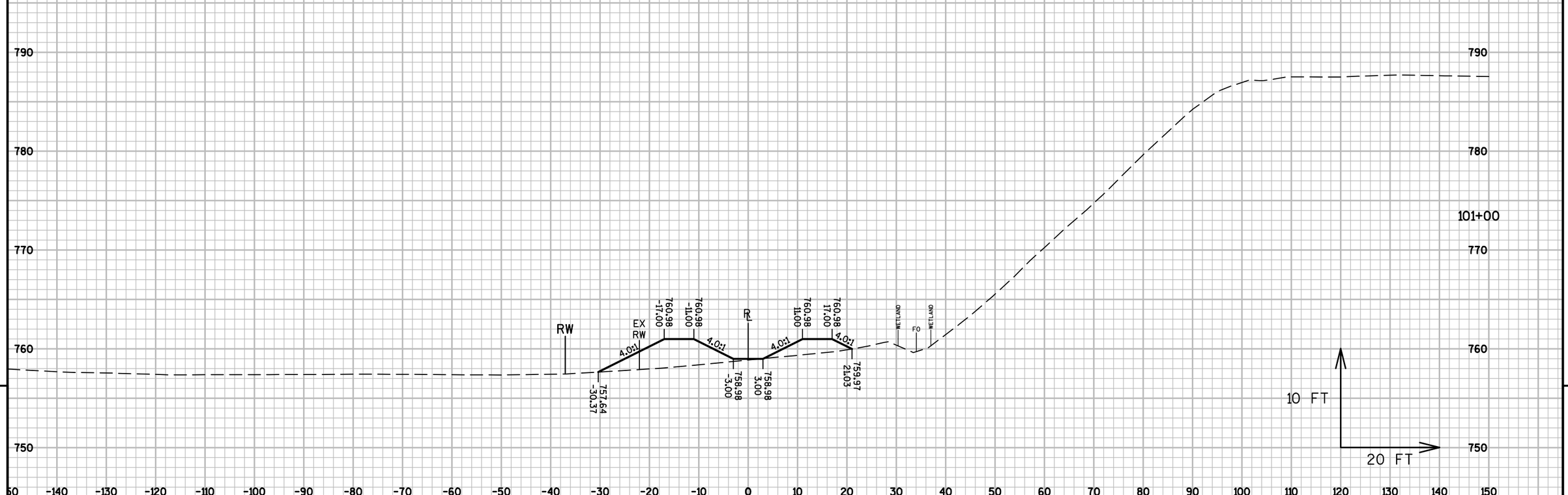


PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: SWALE 1	SHEET 326 E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090204-XS-SWALE 1.DWG
LAYOUT NAME - 01

PLOT DATE : 8/25/2016 11:44 AM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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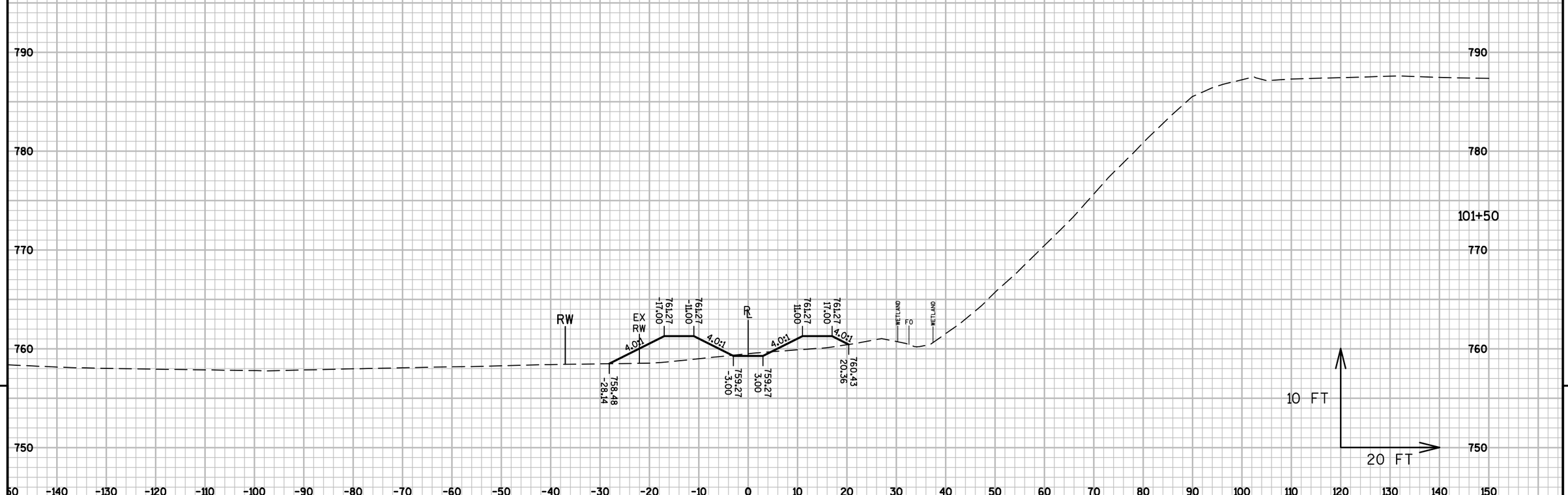
PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: SWALE 1	SHEET 327	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090204-XS-SWALE 1.DWG
LAYOUT NAME - 02

PLOT DATE : 8/25/2016 11:45 AM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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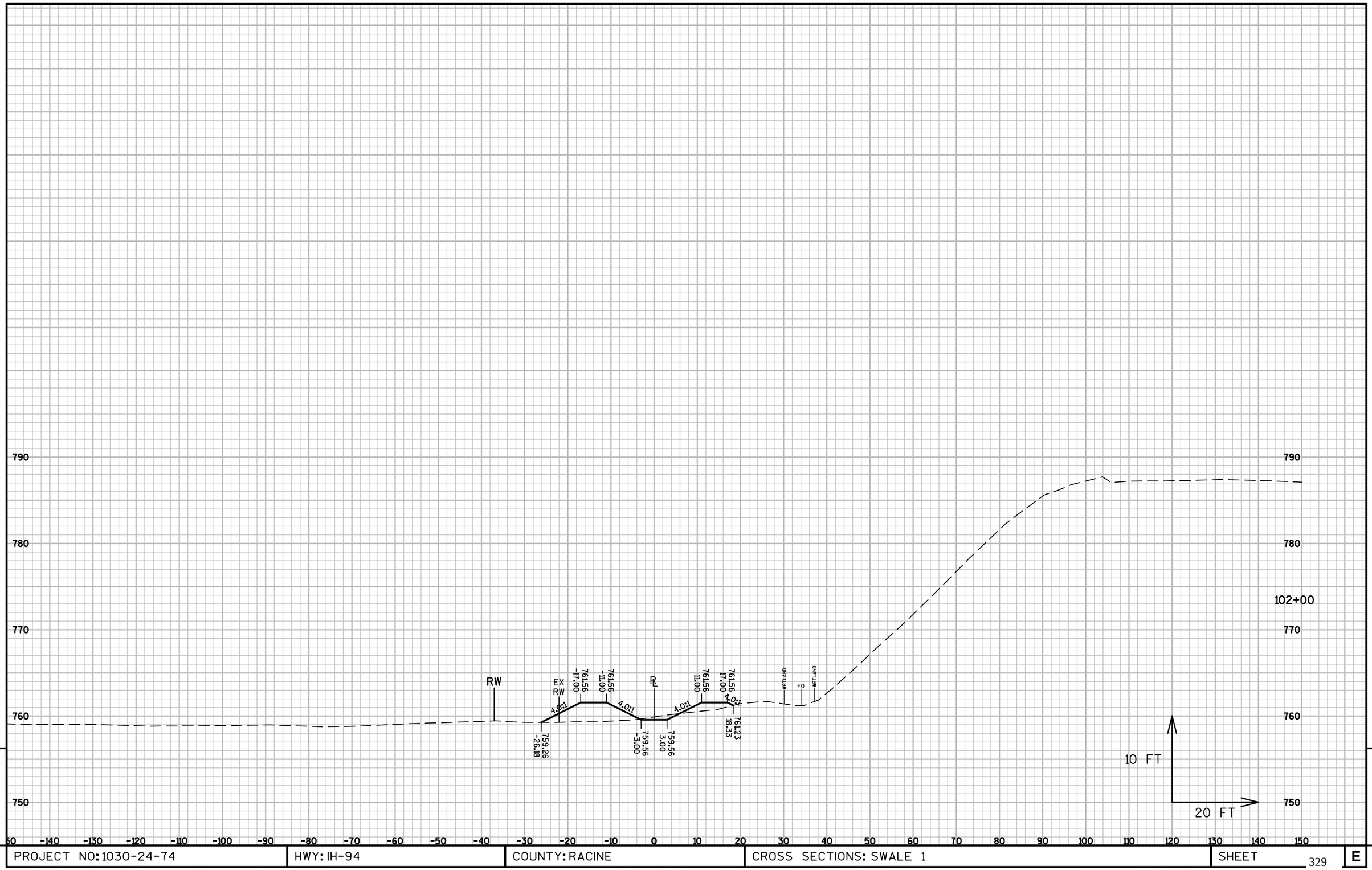
PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: SWALE 1	SHEET	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090204-XS-SWALE 1.DWG
LAYOUT NAME - 03

PLOT DATE : 8/25/2016 11:45 AM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT



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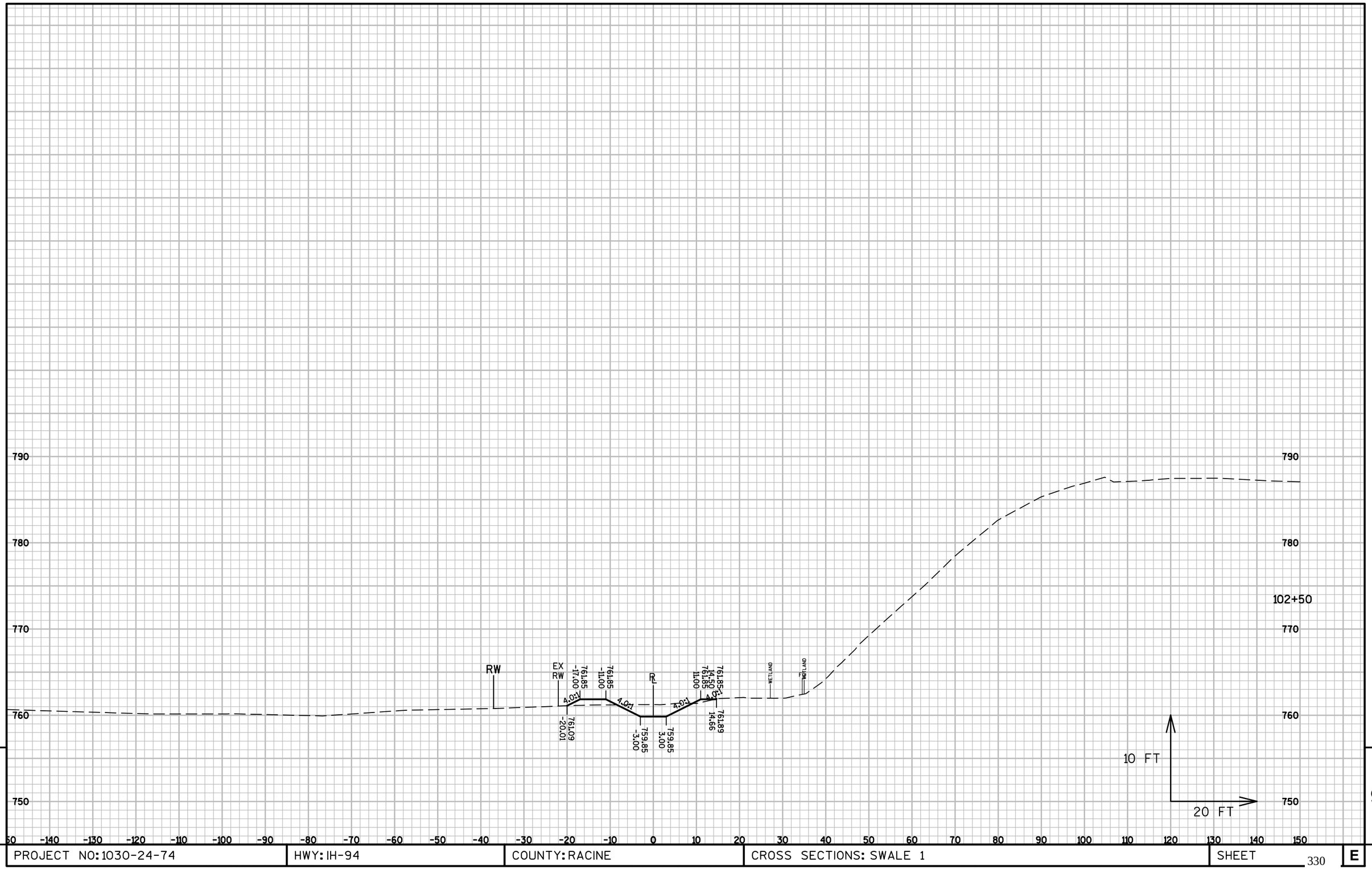
PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: SWALE 1	SHEET	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090204-XS-SWALE 1.DWG
LAYOUT NAME - 04

PLOT DATE : 8/25/2016 11:45 AM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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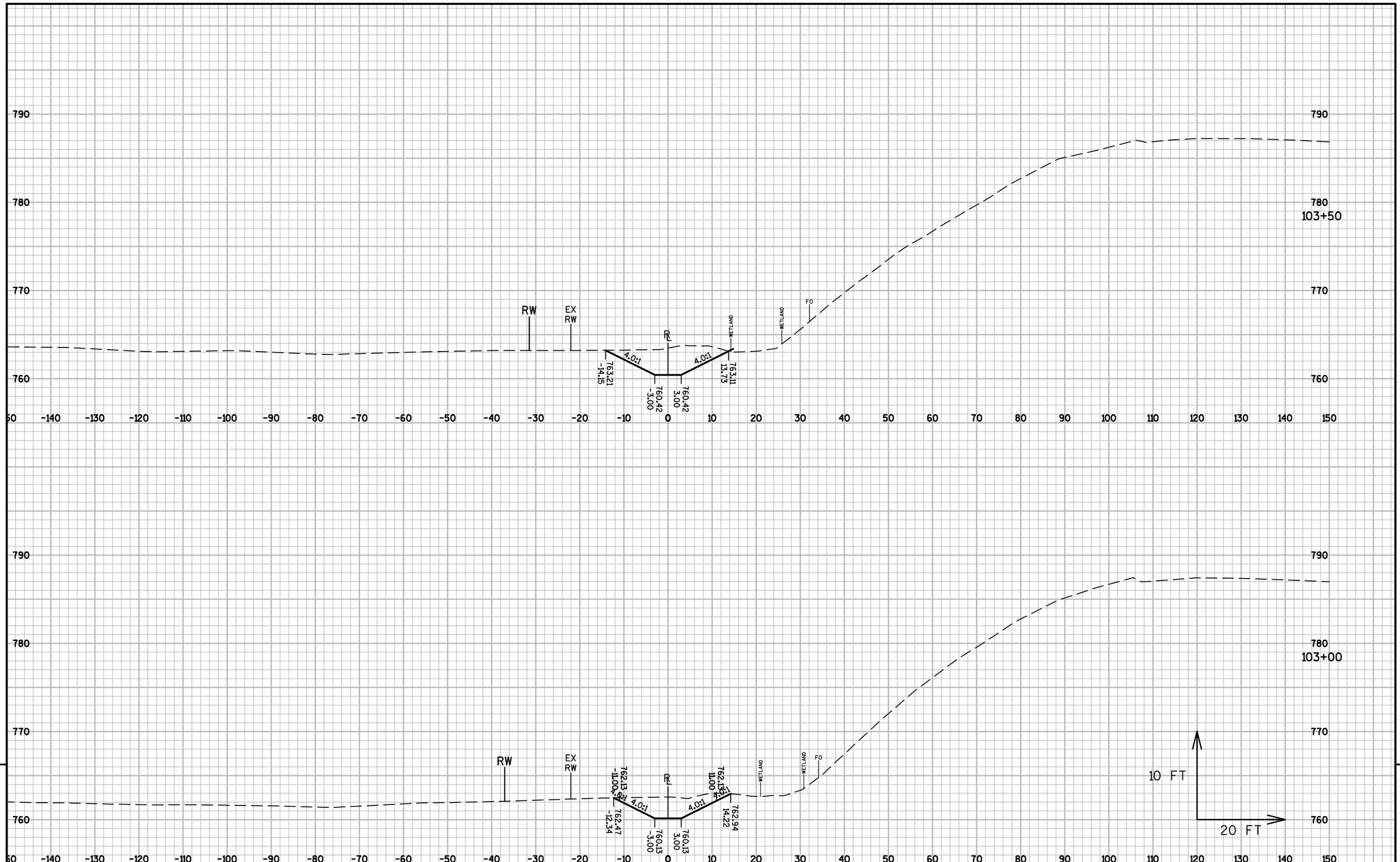
PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: SWALE 1	SHEET 330	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090204-XS-SWALE 1.DWG
LAYOUT NAME - 05

PLOT DATE : 8/25/2016 11:45 AM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT



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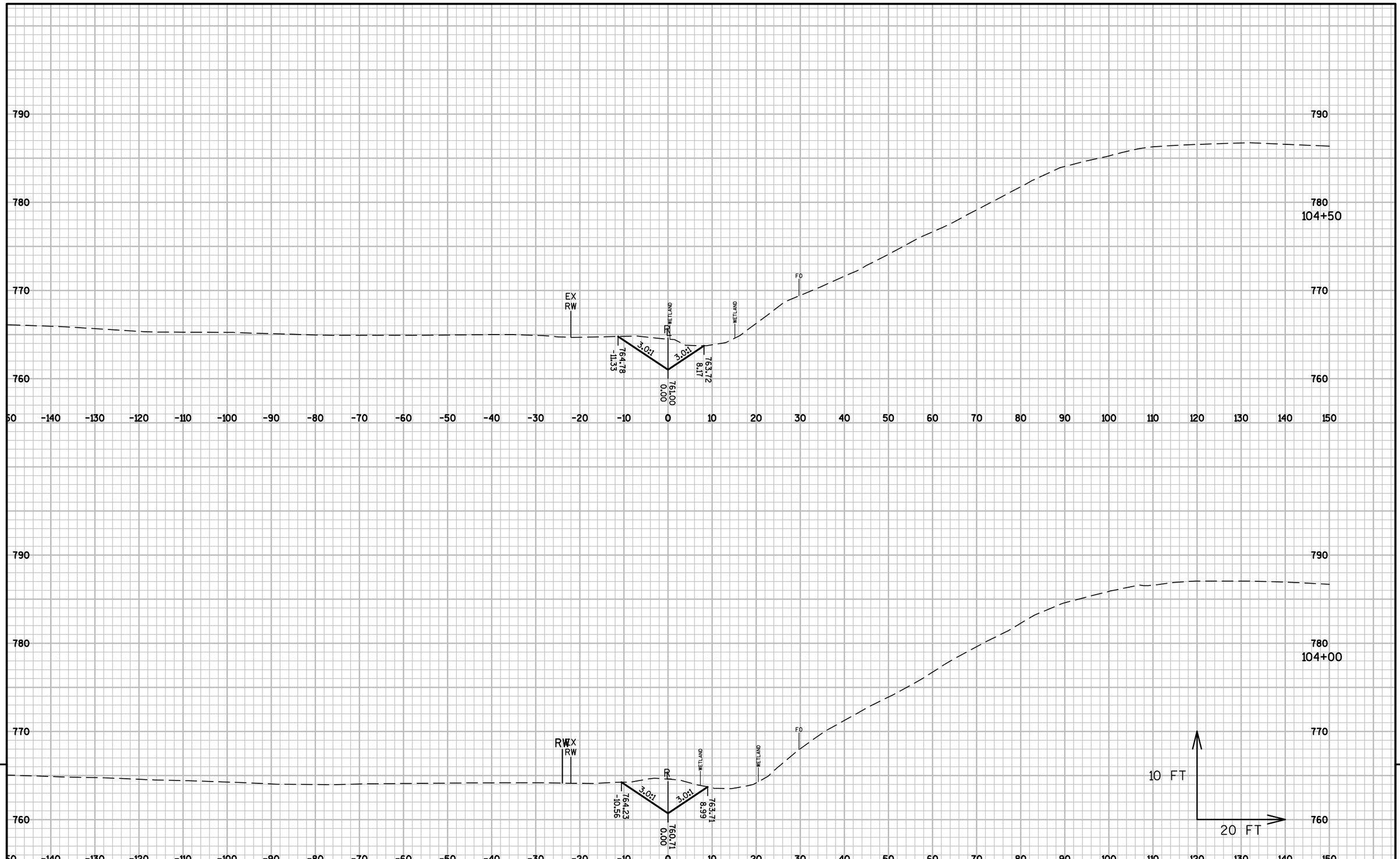
PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: SWALE 1	SHEET	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090204-XS-SWALE 1.DWG
LAYOUT NAME - 06

PLOT DATE : 8/25/2016 11:46 AM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: SWALE 1	SHEET	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090204-XS-SWALE 1.DWG
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PLOT DATE : 8/25/2016 11:46 AM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT

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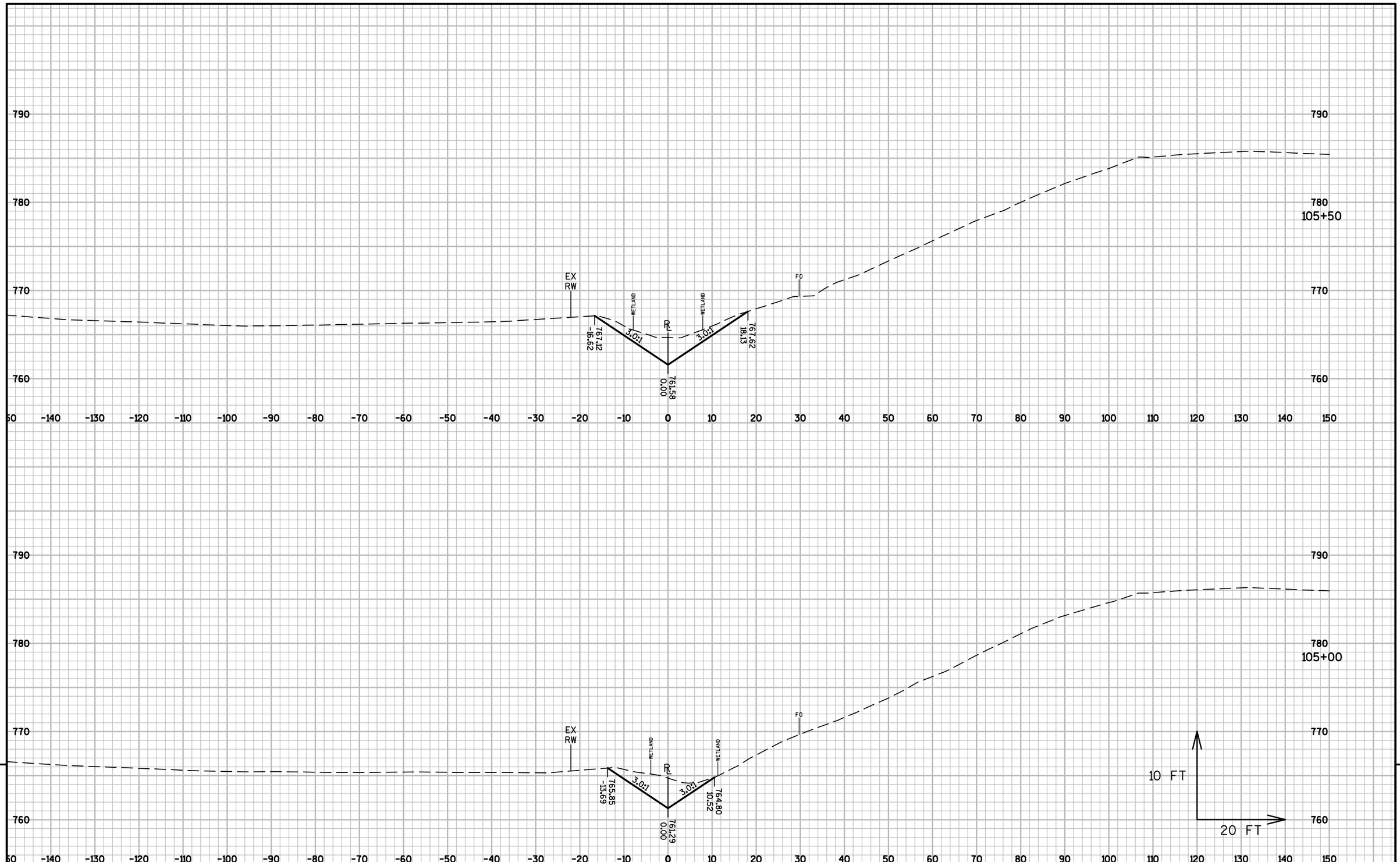

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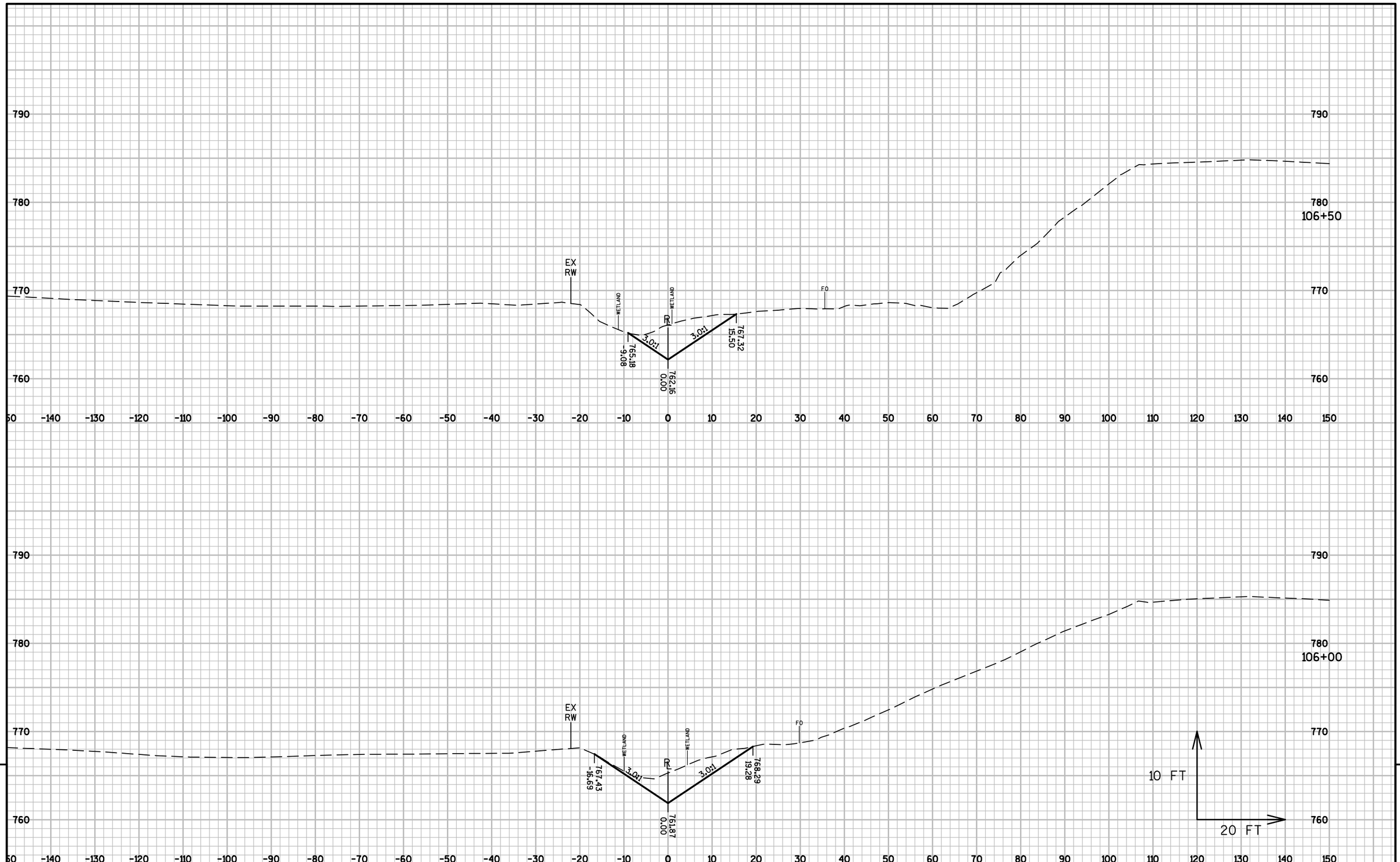
PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: SWALE 1	SHEET	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090204-XS-SWALE 1.DWG
LAYOUT NAME - 08

PLOT DATE : 8/25/2016 11:46 AM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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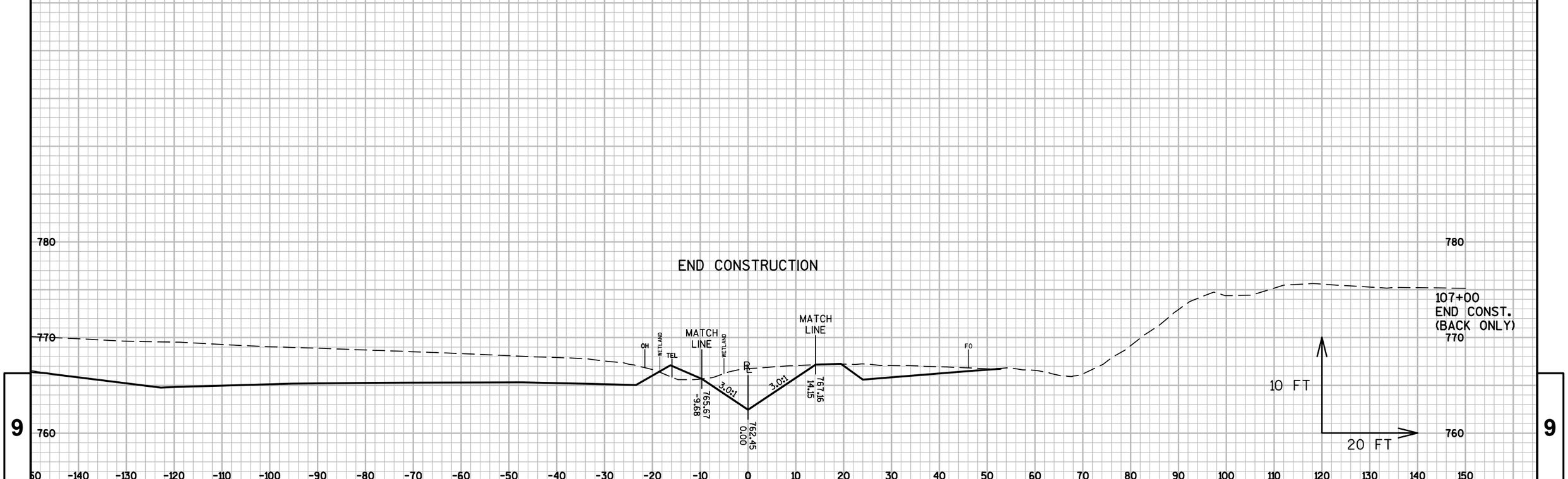
9

PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: SWALE 1	SHEET 334	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090204-XS-SWALE 1.DWG
LAYOUT NAME - 09

PLOT DATE : 8/25/2016 11:46 AM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT



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PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: SWALE 1	SHEET	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090204-XS-SWALE 1.DWG
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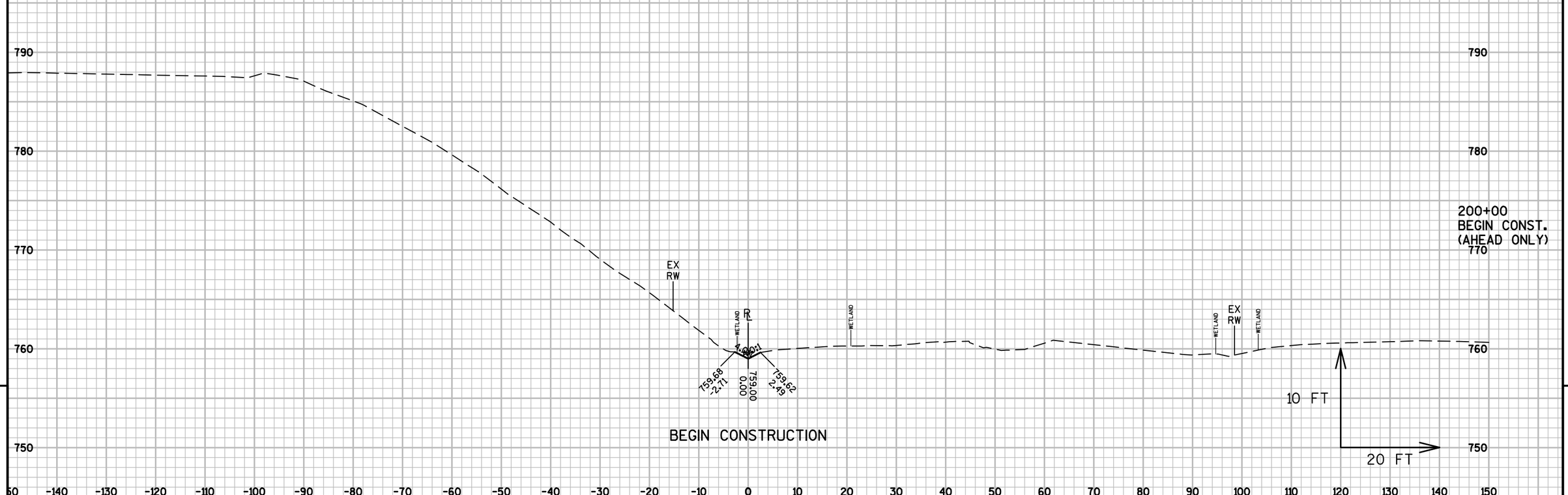

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PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: SWALE 2	SHEET	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090205-XS-SWALE 2.DWG
LAYOUT NAME - 01

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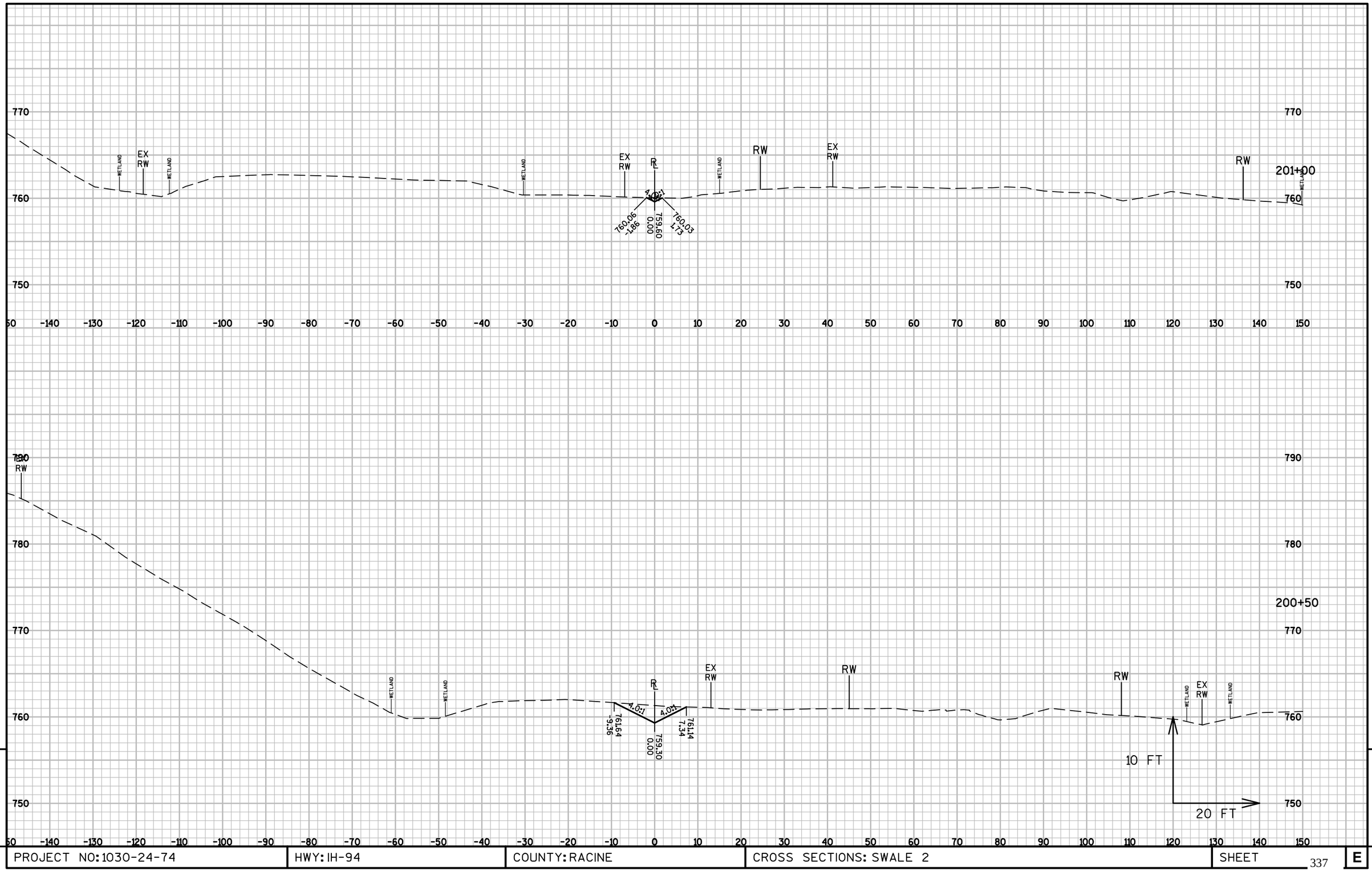

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9

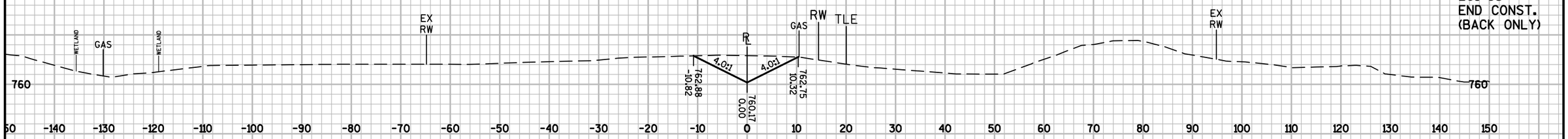
PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: SWALE 2	SHEET 337 E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090205-XS-SWALE 2.DWG
LAYOUT NAME - 02

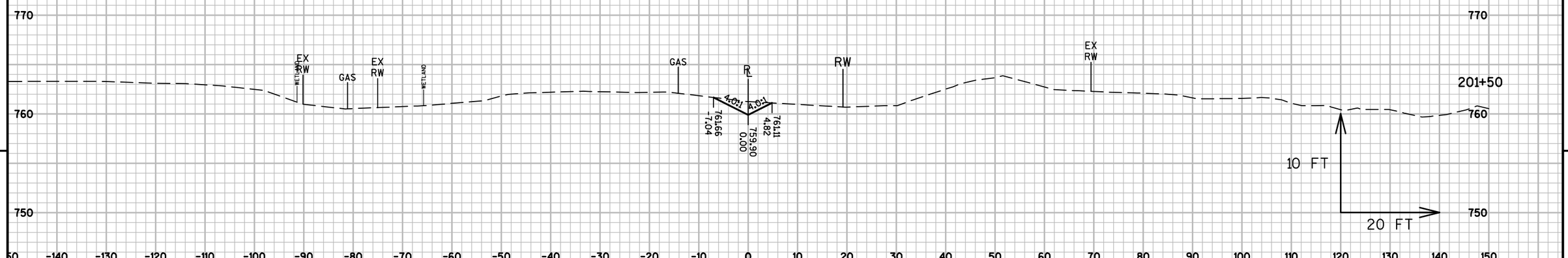
PLOT DATE : 8/25/2016 11:53 AM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

END CONSTRUCTION



770
201+95
END CONST.
(BACK ONLY)



9 9

PROJECT NO: 1030-24-74	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: SWALE 2	SHEET 338	E

Notes

Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

http://www.dot.wisconsin.gov

WKE

NOV 2017

PROJECT ID: 1030-24-77

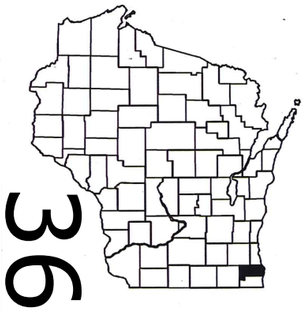
WITH: 1030-24-70/74/78, 1033-02-77/78

COUNTY: RACINE

ORDER OF SHEETS

Section No.	1	Title
Section No.	2	Typical Sections and Details (Includes Erosion Control Plans)
Section No.	3	Estimate of Quantities
Section No.	3	Miscellaneous Quantities
Section No.	4	Right of Way Plat
Section No.	5	Plan and Profile
Section No.	6	Standard Detail Drawings
Section No.	7	Sign Plates
~~Section No.~~	~~8~~	~~Structure Plans~~
Section No.	9	Computer Earthwork Data
Section No.	9	Cross Sections

TOTAL SHEETS = 246



36

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

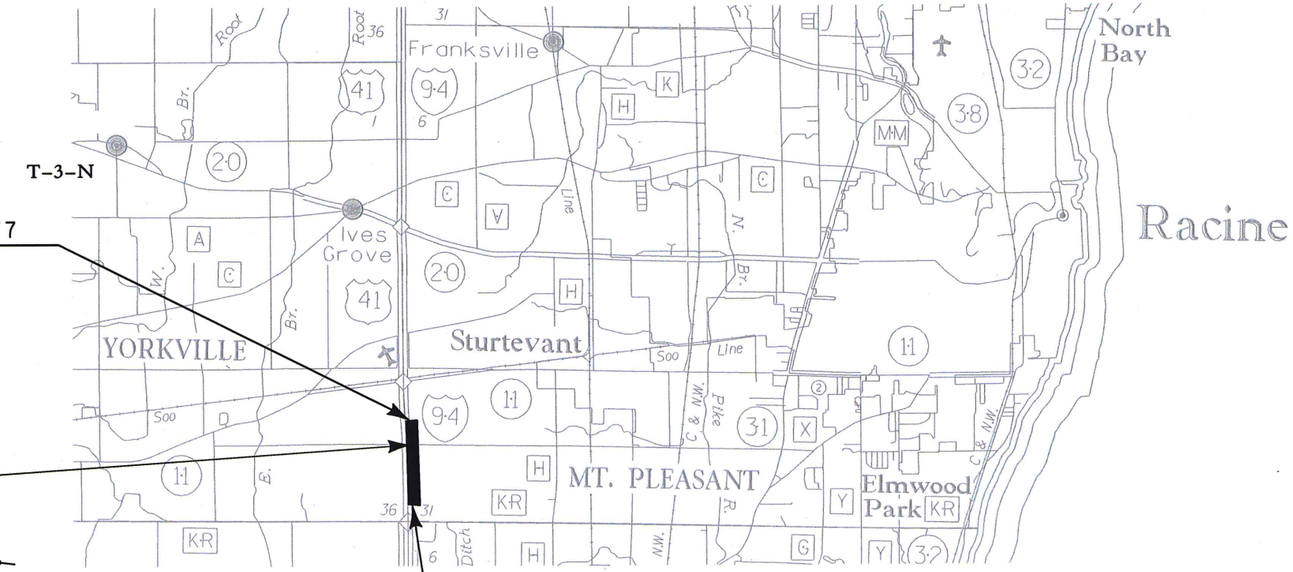
PLAN OF PROPOSED IMPROVEMENT

N-S FREEWAY CTH KR TO STH 11

EAST FRONTAGE ROAD
IH 94
RACINE COUNTY

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1030-24-77	WISC 2017609	1

STATE PROJECT NUMBER
1030-24-77



END PROJECT 1030-24-77
STA. 3730+00.00

STATION EQUATION
STA. 5711+08.67 BACK=
STA. 3711+06.80 AHEAD

BEGIN PROJECT 1030-24-77
STA. 5664+50.00
Y = 165775.34
X = 594637.10

DESIGN DESIGNATION		EAST FRONTAGE ROAD
A.A.D.T. 2014	=	280
A.A.D.T. 2038	=	330
D.H.V.	=	30
D.D.	=	.59 NB/.41 SB
T.	=	9.8%
DESIGN SPEED	=	50MPH/60MPH
ESALS	=	1,138,800

CONVENTIONAL SYMBOLS

PLAN
- CORPORATE LIMITS
- PROPERTY LINE
- LOT LINE
- LIMITED HIGHWAY EASEMENT
- EXISTING RIGHT OF WAY
- PROPOSED OR NEW R/W LINE
- SLOPE INTERCEPT
- REFERENCE LINE
- EXISTING CULVERT
- PROPOSED CULVERT (Box or Pipe)
- COMBUSTIBLE FLUIDS (CAUTION)
- MARSH AREA
- WOODED OR SHRUB AREA

PROFILE
- GRADE LINE
- ORIGINAL GROUND
- MARSH OR ROCK PROFILE (To be noted as such) (ROCK)
- SPECIAL DITCH (LABEL)
- GRADE ELEVATION (95.36)
- CULVERT (Profile View)

UTILITIES
- ELECTRIC (E)
- FIBER OPTIC (FO)
- GAS (G)
- SANITARY SEWER (SAN)
- STORM SEWER (SS)
- TELEPHONE (T)
- WATER (W)
- UTILITY PEDESTAL
- POWER POLE
- TELEPHONE POLE

LAYOUT
SCALE 0 1 MI.

TOTAL NET LENGTH OF CENTERLINE = 1.241 MI.

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), RACINE COUNTY, NAD 1983(97)

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988(91) (NAVD 88(91)).

ORIGINAL PLANS PREPARED BY

DAAR ENGINEERING, INC.
www.daarengineering.com
Milwaukee, WI 53212
414-225-9817

WISCONSIN
ANDREW J. SMIEJA
E-31137
WAUKESHA, WI
PROFESSIONAL ENGINEER

8/1/17 (Date) (Signature)

ORIGINAL PLANS PREPARED BY

emcs inc
1300 W. Canal Street, Suite 200
Milwaukee, WI 53233
414.347.1607 Fax 414.347.1347

WISCONSIN
BRIAN J. WILSON
E-34330-6
MILWAUKEE WI
PROFESSIONAL ENGINEER

8/1/17 (Date) (Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY	
Surveyor	WISDOT/EMCS
Designer	EMCS/DAAR
Project Manager	FRANK PRITZLAFF
Regional Examiner	
Regional Supervisor	WAFA ELQAQ
C.O. Examiner	

APPROVED FOR THE DEPARTMENT
DATE: 7/31/17 (Signature)

E

UTILITY CONTACTS

AT&T WISCONSIN

MR. MARK EDER
2005 PEWAUKEE RD
WAUKESHA, WI 53188
PHONE: (262) 896-7434
me1754@att.com

CHARTER COMMUNICATIONS

MR. STEVE CRAMER
1320 N. MARTIN LUTHER KING JR. DRIVE
MILWAUKEE, WI 53212
PHONE: (414) 277-4045
CELL: (414) 688-2385
steve.cramer@charter.com
wis.engineering@charter.com

WE ENERGIES - ELECTRIC

SEND ALL CORRESPONDENCE TO:
MR. LATROY BRUMFIELD
333 W. EVERETT STREET - A299
MILWAUKEE, WI 53203
PHONE: (414) 221-5617
latroy.brumfield@we-energies.com

CONSTRUCTION FIELD CONTACT:
MR. DAN TOOMEY
500 S. 116TH STREET
WEST ALLIS, WI 53214
PHONE: (414) 944-5695
dan.toomey@we-energies.com

WISDOT STOC

MR. JEFFREY MADSON
433 W ST. PAUL AVE, SUITE 300
MILWAUKEE, WI 53203
PHONE: (414) 225-3723
jeffrey.madson@dot.wi.gov

ORDER OF SECTION 2 DETAIL SHEETS

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
REMOVALS
PLAN DETAILS
EROSION CONTROL
STORM SEWER
EXISTING AND PERMANENT SIGNING
PAVEMENT MARKING
TRAFFIC CONTROL & STAGING
FENCING
ALIGNMENT LAYOUT

STATE AGENCIES

WISCONSIN DEPARTMENT OF TRANSPORTATION

MS. LACIKAZAN - ENVIRONMENTAL ANALYST AND REVIEW SPECIALIST
141 NW BARSTOW STREET
WAUKESHA, WI 53187-0798
CELL: (414) 322-1429
laci.kazan@dot.wi.gov

WISCONSIN DEPARTMENT OF TRANSPORTATION

MR. GREG BERRY - UTILITY COORDINATOR
141 NW BARSTOW STREET
WAUKESHA, WI 53187-0798
CELL: (414) 750-7828
gregory.berry@dot.wi.gov

WISCONSIN DEPARTMENT OF NATURAL RESOURCES

MS. KRISTINA BETZHOLD
ENVIRONMENTAL ANALYST AND REVIEW SPECIALIST
2300 N. DR. MARTIN LUTER KING JR. DRIVE
MILWAUKEE, WI 53212
PHONE: (414) 507-4946
KRISTINA.BETZHOLD@WISCONSIN.GOV

WISCONSIN DEPARTMENT OF TRANSPORTATION

MR. FRANK PRITZLAFF - PROJECT MANAGER
141 NW BARSTOW STREET
WAUKESHA, WI 53187-0798
PHONE: (262) 548-5683
frank.pritzlaff@dot.wi.gov

OTHER AGENCIES

VILLAGE OF MOUNT PLEASANT

MR. MARK BENISH
8700 CAMPUS DRIVE
MOUNT PLEASANT, WI 53406
PHONE: (262) 664-7844
mbenish@mtpleasantwi.gov

TOWN OF YORKVILLE

MR. MICHAEL MCKINNEY
925 15TH AVENUE
UNION GROVE, WI 53182
PHONE: (262) 878-2123
michael@townofyorkville.com

RACINE COUNTY DPW

MR. NATHAN PLUNKETT
14200 WASHINGTON AVE
STURTEVANT, WI 53177
PHONE: (262) 886-8442
nathan.plunkett@racinecounty.com

SOUTHEASTERN WISCONSIN REGIONAL PLANNING COMMISSION

MR. JOHN WASHBURN
W239 N1812 ROCKWOOD DRIVE
P.O. BOX 1607
WAUKESHA, WI 53187-1607
PHONE: (262) 953-4295
jwashburn@sewrpc.org

TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN

WIS. STATUTE 182.0175 (1974) REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE.

DIGGERS HOTLINE

Call 811 3 Work Days Before You Dig
or Toll Free (800) 242-8511
Hearing Impaired TDD (800) 542-2289
www.DiggersHotline.com

2

GENERAL NOTES

NO TREES OR SHRUBS SHALL BE REMOVED WITHOUT APPROVAL OF THE ENGINEER.

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE AND AFFECTED UTILITIES PRIOR TO THE START OF WORK. ANY LOCAL MUNICIPAL UTILITY WHICH IS NOT A MEMBER OF THE DIGGERS HOTLINE MUST BE CONTACTED SEPARATELY.

ALL HOLES OR OPENINGS BELOW SUBGRADE RESULTING FROM ABANDONMENT OR REMOVAL OF EXISTING STRUCTURES SHALL BE FILLED WITH GRANULAR BACKFILL.

WHEN THE QUANTITY OF HMA PAVEMENT OR BASE AGGREGATE IS MEASURED FOR PAYMENT BY THE TON, THE DEPTH OR THICKNESS OF THE LAYER SHOWN ON THE PLAN IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.

INLET AND DISCHARGE ELEVATIONS FOR DRAINAGE STRUCTURES SHOWN ON THE PLAN MAY BE ADJUSTED BY THE ENGINEER TO FIT FIELD CONDITIONS.

CURB AND GUTTER GRADES ARE GIVEN TO THE FLANGE. CURB AND GUTTER RADII ARE MEASURED TO THE FLANGE.

EXISTING DRIVEWAYS AND FIELD ENTRANCES SHALL BE RESTORED IN KIND AS DIRECTED BY THE ENGINEER IN THE FIELD AND AT THE LOCATION DETERMINED BY THE ENGINEER.

BROKEN CONCRETE CONTAINING RE-BAR SHALL NOT BE USED AS RIPRAP OR HEAVY RIPRAP.

CROSS SECTIONS SHOWN INCLUDE THE THICKNESS OF TOPSOIL WHERE REQUIRED. TOPSOIL SHALL BE REPLACED WITH 4-INCH TYPICAL DEPTH.

A SAWED JOINT IS REQUIRED WHERE NEW HMA PAVEMENT MEETS EXISTING ASPHALTIC CONCRETE SURFACE.

USE EROSION MAT URBAN CLASS I TYPE B ADJACENT TO DISTURBED AREAS NEXT TO WETLANDS. DO NOT INSTALL EROSION MAT URBAN CLASS I TYPE B IN WATER.

PRIOR TO ORDERING DRAINAGE PIPES AND STRUCTURES, THE CONTRACTOR SHALL VERIFY RELATED DRAINAGE INFORMATION IN THE PLANS AND PROVIDE DOCUMENTATION TO ENGINEER IN ACCORDANCE WITH THE SPECIFICATIONS.

CONTRACTOR MUST CONTACT THE PROJECT ENGINEER AND THE RACINE COUNTY SURVEYOR, JOHN WASHBURN, AND RACINE COUNTY PUBLIC WORKS DIRECTOR, JULIE ANDERSON, AT LEAST TWO WEEKS PRIOR TO WORK NEAR ANY PUBLIC SURVEY MONUMNET.

ALL ENCROACHMENTS SHOWN IN THE PLAN ARE TO BE REMOVED BY THE PROPERTY OWNER PRIOR TO CONSTRUCTION, UNLESS OTHERWISE NOTED.

THE LOCATIONS OF SELECT SUBBASE AND GEOGRID TYPE SR ARE DEPENDENT ON FIELD CONDITIONS DURING GRADING OPERATIONS. GEOGRID REINFORCEMENT AND FILL MATERIAL SHALL NOT BE PLACED UNTIL AUTHORIZED BY THE ENGINEER OR SOILS ENGINEER.

CONTRACTOR SHALL CONTACT SEWRPC AT LEAST TWO WEEKS PRIOR TO REPLACING SECTION CORNERS.

LOCATIONS OF DRAINTILE ON THE PLAN ARE BASED ON AS-BUILT OR PROPERTY OWNER INTERVIEWS. DRAINTILE EXPLORATION ITEM IS TO BE USED TO VERIFY THE EXACT SIZE AND LOCATION.

FERTILIZER SHALL NOT BE USED WITHIN 20 FEET OF NAVIGABLE WATERWAYS OR WETLANDS.

HMA PAVEMENT AND CONCRETE DRIVEWAYS AND/OR PARKING LOTS SHALL BE SAWCUT AT THE MATCHLINE AS SHOWN ON THE PLAN DETAILS OR AS DIRECTED BY THE ENGINEER.

STATIONING, DISTANCES AND OFFSETS FOR SIGNS SHOWN ON THE PLANS ARE APPROXIMATE AND THE LOCATIONS OF SIGNS ARE TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

ADDRESS NUMBER SIGNS WILL BE RELOCATED BY LOCAL MUNICIPALITIES. CONTACT MUNICIPALITY TWO WEEKS PRIOR TO BEGINNING WORK WHICH MAY DISTURB ADDRESS NUMBER SIGNS.

A CONVERSION FACTOR OF 2.0 TONS/CY IS USED TO ESTIMATE QUANTITIES FOR BASE AGGREGATE DENSE 3/4-INCH AND 1 1/4-INCH.

A CONVERSION FACTOR OF 1.9 TONS/CY IS USED TO ESTIMATE QUANTITIES FOR SELECT SUBBASE MATERIAL.

A CONVERSION FACTOR OF 1.7 TONS/CY IS USED TO ESTIMATE QUANTITIES FOR BREAKER RUN MATERIAL.

A CONVERSION FACTOR OF 115 LB/SY/IN IS USED TO ESTIMATE QUANTITIES FOR HMA PAVEMENT.

ALL TYPES OF HMA PAVEMENT SHALL BE CONSTRUCTED WITH THE FOLLOWING LAYERS AND GRADATIONS:

AP03

PAVEMENT TYPE	TOTAL LAYER PAVEMENT THICKNESS	LAYERS
4 LT 58-28 S 3 LT 58-28 S	5½"	2¼" UPPER LAYER 3¼" LOWER LAYER

STANDARD ABBREVIATIONS

AECPRC	APRON ENDWALL CULVERT PIPE REINFORCED CONCRETE
AECPRCHE	APRON ENDWALL CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL
AECPSS	APRON ENDWALL CULVERT PIPE SLOPED SECTION
AEW	APRON END WALL
AGG	AGGREGATE
BAD	BASE AGGREGATE DENSE
B/C	BACK OF CURB
BM	BENCH MARK
C&G	CURB AND GUTTER
C/L	CENTER OR CONSTRUCTION LINE
CONC	CONCRETE
CP	CULVERT PIPE
CPCM	CULVERT PIPE CORRUGATED METAL
CPRC	CULVERT PIPE REINFORCED CONCRETE
CPRCHE	CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL
CSD	CONCRETE SURFACE DRAIN
CY	CUBIC-YARD
D	DEGREE OF CURVE
Δ	DELTA
DISCH	DISCHARGE
DWY	DRIVEWAY
EBS	EXCAVATION BELOW SUBGRADE
EFR	EAST FRONTAGE ROAD
EL	ELEVATION
FE	FIELD ENTRANCE
HMA	HOT MIX ASPHALT
INV	INVERT
L	LENGTH OF CURVE
LHF	LEFT HAND FORWARD
LT	LEFT
MIN	MINIMUM
M/L	MATCHLINE
NB	NORTHBOUND
NC	NORMAL CROWN
PAVT	PAVEMENT
PC	POINT OF CURVE
PCC	POINT OF COMPOUND CURVE
PE	PRIVATE ENTRANCE
PGL	PROFILE GRADE LINE
PI	POINT OF INTERSECTION
PLE	PERMANENT LIMITED EASEMENT
PT	POINT OF TANGENT
R	RADIUS OF CURVE
R/L	REFERENCE LINE
R/W	RIGHT OF WAY
RC	REVERSE CROWN
REQD	REQUIRED
RHF	RIGHT HAND FORWARD
RO	RUN OFF LENGTH
RT	RIGHT
SALV	SALVAGED
SB	SOUTHBOUND
SDD	STANDARD DETAIL DRAWING
SE	SUPER ELEVATION
SF	SQUARE FOOT
SSPRC	STORM SEWER PIPE REINFORCED CONCRETE
SSPRCHE	STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL
STA	STATION
SY	SQUARE YARD
T	TANGENT LENGTH
TLE	TEMPORARY LIMITED EASEMENT
TYP	TYPICAL
VCL	VERTICAL CURVE LENGTH
VPC	POINT OF VERTICAL CURVE
VPI	POINT OF VERTICAL INTERSECTION
VPT	POINT OF VERTICAL TANGENT
WFR	WEST FRONTAGE ROAD

2

2

N

TOWN OF
YORKVILLE

SECTION LINE

BRAUN ROAD

END PROJECT
I.D. 1030-24-77
STA. 3730+00
= MATCH PROJECT
I.D. 1030-24-70

SECTION LINE

NAVIGABLE WATERWAY
UT-18 TO KILBOURN ROAD DITCH

SYLVANIA
CEMETERY

BEGIN CONSTRUCTION
STA. 52+00

APPLE HOLLER

WEST FRONTAGE ROAD

IH-94 SB

IH-94 NB

EAST FRONTAGE ROAD

C-51-12
BOX CULVERT
EXTENSION
I.D. 1030-24-80
(PREVIOUSLY CONSTRUCTED)

STATION EQUATION
STA. 5711+08.67 BACK=
STA. 3711+06.80 AHEAD

END CONSTRUCTION
STA. 54+50

BEGIN PROJECT
I.D. 1030-24-77
STA. 5664+50
= MATCH PROJECT
I.D. 1035-03-70
(PREVIOUSLY CONSTRUCTED)

NAVIGABLE WATERWAY
UNNAMED TRIBUTARY TO
KILBOURN ROAD DITCH

NAVIGABLE WATERWAY
UT-18 TO KILBOURN ROAD DITCH

PL

PL

PL

PL

1/4 SECTION LINE

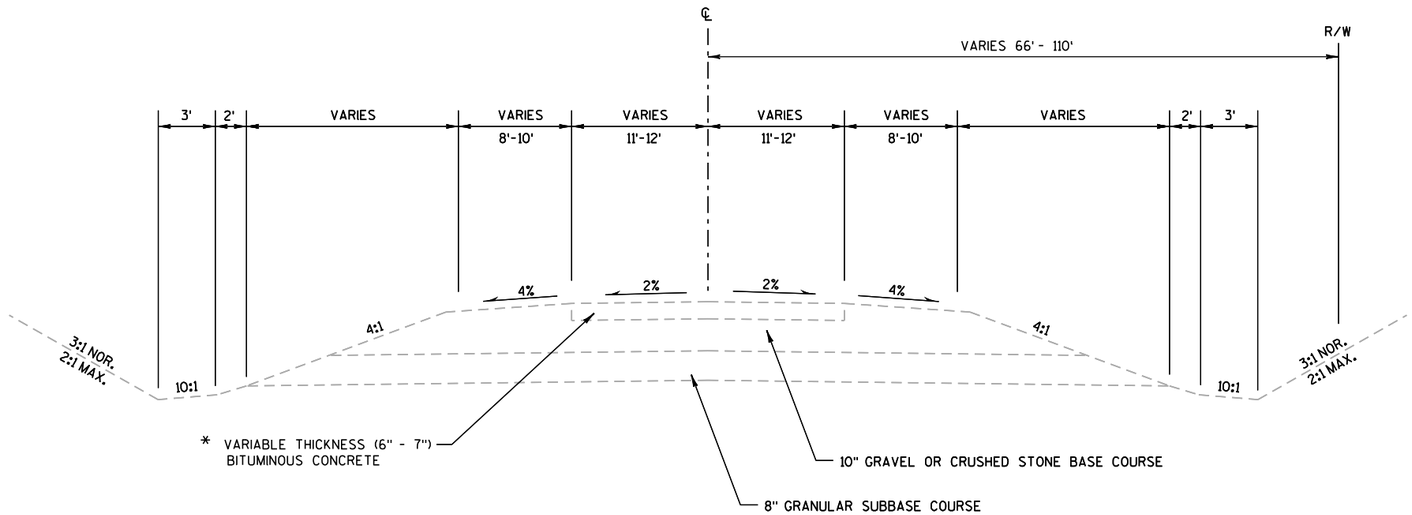
SECTION LINE

1/4 SECTION LINE

VILLAGE OF
MT. PLEASANT

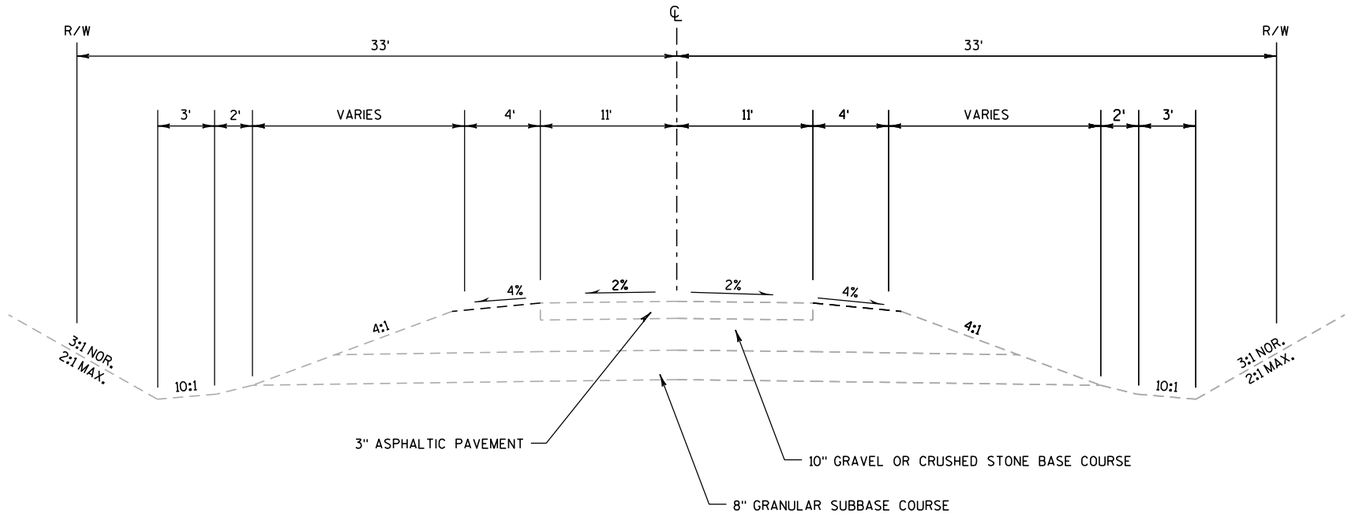
PROJECT NO: 1030-24-77	HWY: IH 94	COUNTY: RACINE	PROJECT OVERVIEW: EAST FRONTAGE ROAD	SHEET 4	E

FILE NAME : Z:\Racine\CADDS\12\12E\CDS\020201_po.dgn PLOT DATE : 1/10/2017 PLOT BY : tony.baciak PLOT NAME : PLOT SCALE : 1:500



TYPICAL EXISTING SECTION
EAST FRONTAGE ROAD
STA. 5664+50 - 5711+09
STA. 3711+07 - 3730+00

EAST FRONTAGE ROAD BORINGS		
STATION	BORING #	THICKNESS (INCHES)
5673+50	RPA-178	7" ASPHALT CONCRETE
5688+52	RPA-181	7 1/4" ASPHALT CONCRETE
5703+50	RPA-183	8" ASPHALT CONCRETE
3715+52	9	6" ASPHALT CONCRETE
3718+48	RPA-186	7" ASPHALT CONCRETE
3724+32	10	6" ASPHALT CONCRETE



TYPICAL EXISTING SECTION
BRAUN ROAD
STA 52+00 - 54+50

* SEE BORING TABLE

PROJECT NO: 1030-24-77	HWY: IH 94	COUNTY: RACINE	TYPICAL SECTIONS: EXISTING EAST FRONTAGE ROAD	SHEET 5	E

LEGEND:

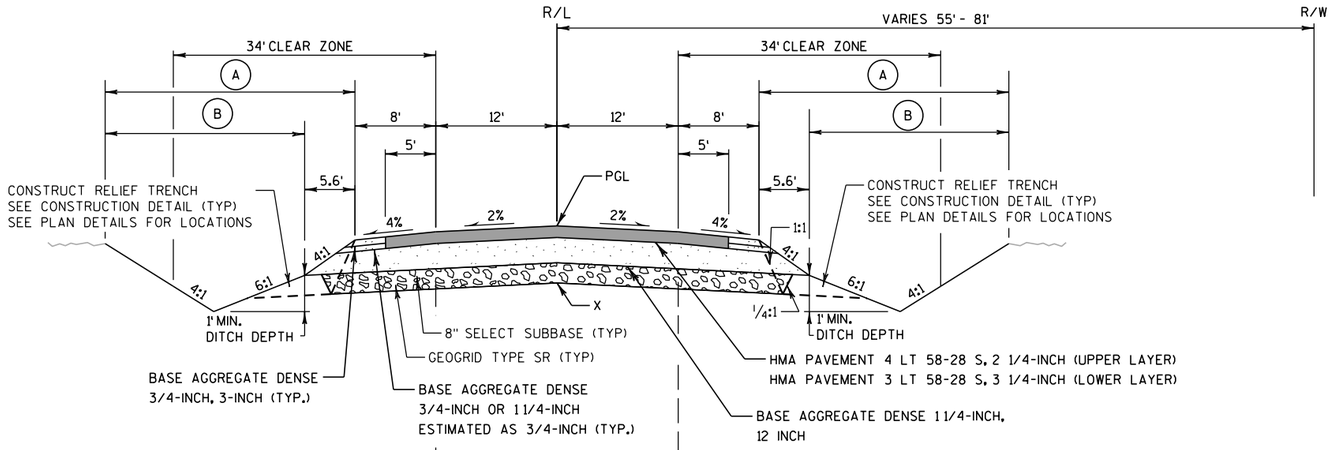
(A) SEEDING MIXTURE NO. 30* SPECIAL AND FERTILIZER TYPE B SPECIAL

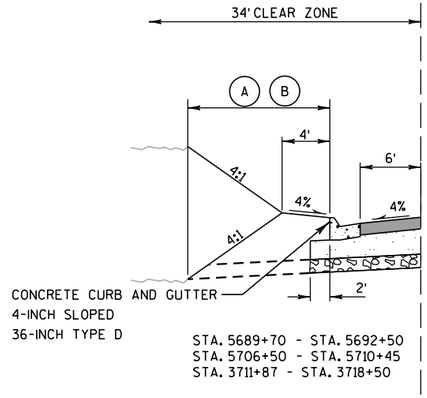
(B) 4" SALVAGED TOPSOIL AND MULCHING OR EROSION MAT

*EXCEPT USE SEEDING MIXTURE NO. 40 AT AREAS DESIGNATED IN THE EROSION CONTROL PLANS

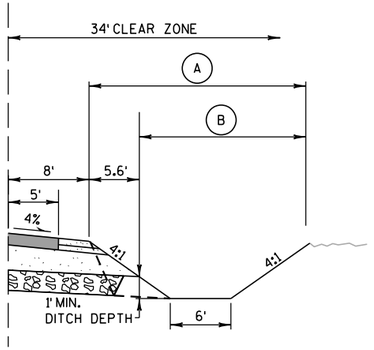
NOTE:

PGL = POINT REFERRED TO ON PROFILE
X = POINT REFERRED TO ON CROSS SECTION

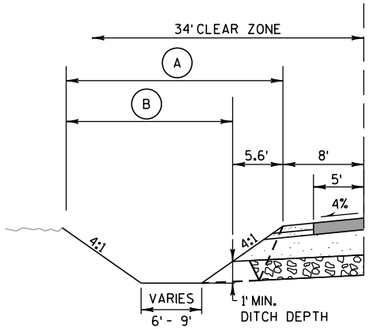




STA. 5689+70 - STA. 5692+50
STA. 5706+50 - STA. 5710+45
STA. 3711+87 - STA. 3718+50



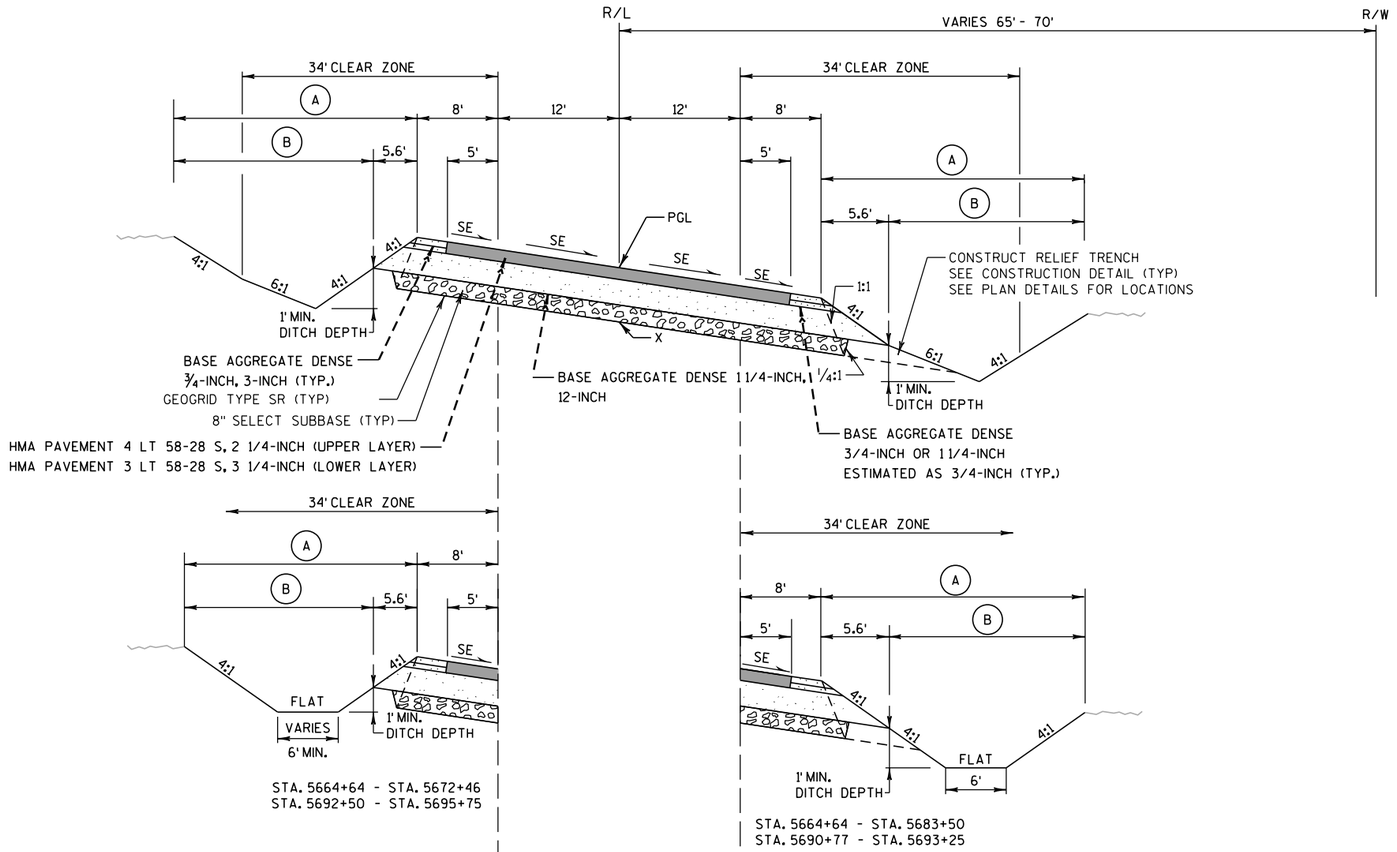
STA. 5672+46 - STA. 5684+00



STA. 5672+46 - STA. 5684+00

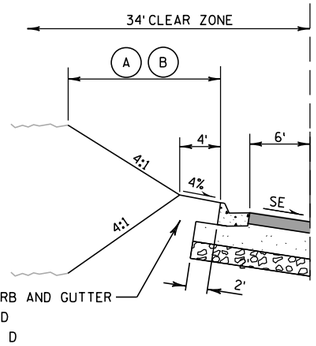
TYPICAL FINISHED SECTION
EAST FRONTAGE ROAD

STA. 5664+50 - STA. 5664+64
STA. 5672+46 - STA. 5684+74
STA. 5689+76 - STA. 5690+77
STA. 5699+06 - STA. 5700+07
STA. 5705+09 - STA. 5711+08.66
STA. 3711+06.80 - STA. 3730+00

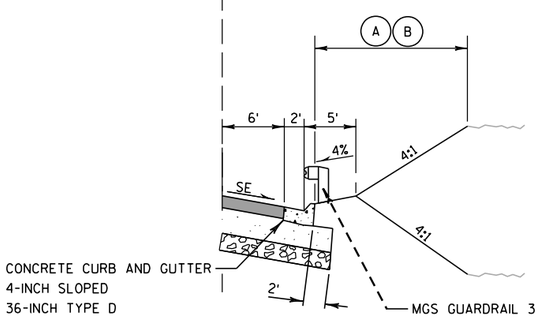


STA. 5664+64 - STA. 5672+46
STA. 5692+50 - STA. 5695+75

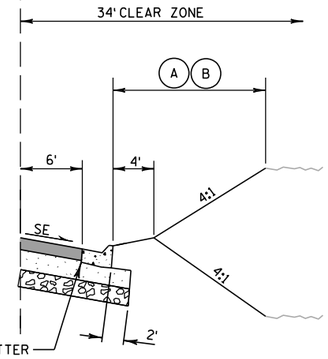
STA. 5664+64 - STA. 5683+50
STA. 5690+77 - STA. 5693+25



STA. 5689+70 - STA. 5692+50



STA. 5691+25 - STA. 5694+50



STA. 5690+95 - STA. 5691+25
STA. 5694+50 - STA. 5695+50

LEGEND:

(A) SEEDING MIXTURE NO. 30* SPECIAL AND FERTILIZER TYPE B SPECIAL

(B) 4" SALVAGED TOPSOIL AND MULCHING OR EROSION MAT

*EXCEPT USE SEEDING MIXTURE NO. 40 AT AREAS DESIGNATED IN THE EROSION CONTROL PLANS

NOTE:

PGL = POINT REFERRED TO ON PROFILE AND PIVOT POINT FOR SUPERELEVATION

X = POINT REFERRED TO ON CROSS SECTION

SE = SEE ALIGNMENT LAYOUT SHEETS FOR SUPERELEVATION (SE) RATES

TYPICAL FINISHED SECTION

EAST FRONTAGE ROAD SUPERELEVATED SECTION

STA. 5664+64 - STA. 5672+46
STA. 5690+77 - STA. 5699+06

PROJECT NO: 1030-24-77	HWY: IH 94	COUNTY: RACINE	TYPICAL SECTIONS: EAST FRONTAGE ROAD	SHEET 7	E

2

LEGEND:

(A) SEEDING MIXTURE NO. 30* SPECIAL AND FERTILIZER TYPE B SPECIAL

(B) 4" SALVAGED TOPSOIL AND MULCHING OR EROSION MAT

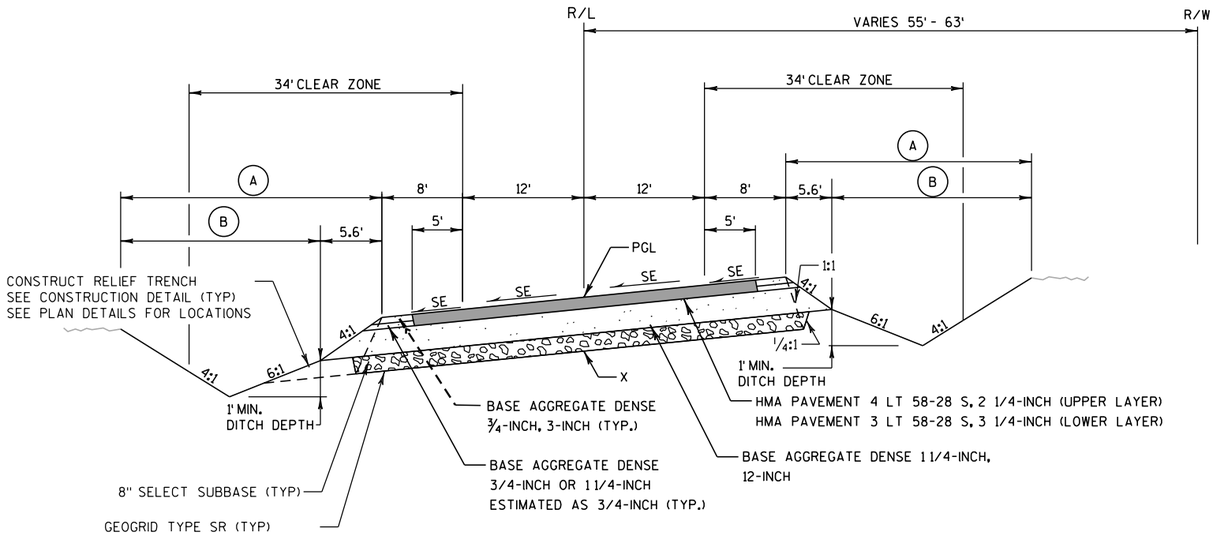
*EXCEPT USE SEEDING MIXTURE NO. 40 AT AREAS DESIGNATED IN THE EROSION CONTROL PLANS

NOTE:

PGL = POINT REFERRED TO ON PROFILE AND PIVOT POINT FOR SUPERELEVATION

X = POINT REFERRED TO ON CROSS SECTION

SE = SEE ALIGNMENT LAYOUT SHEETS FOR SUPERELEVATION (SE) RATES



TYPICAL FINISHED SECTION

EAST FRONTAGE ROAD
SUPER ELEVATED SECTION

STA. 5684+74 - STA. 5689+76
STA. 5700+07 - STA. 5705+09

PROJECT NO: 1030-24-77	HWY: IH 94	COUNTY: RACINE	TYPICAL SECTIONS: EAST FRONTAGE ROAD	SHEET 8	E

2

LEGEND:

(A) SEEDING MIXTURE NO. 30* AND FERTILIZER TYPE B

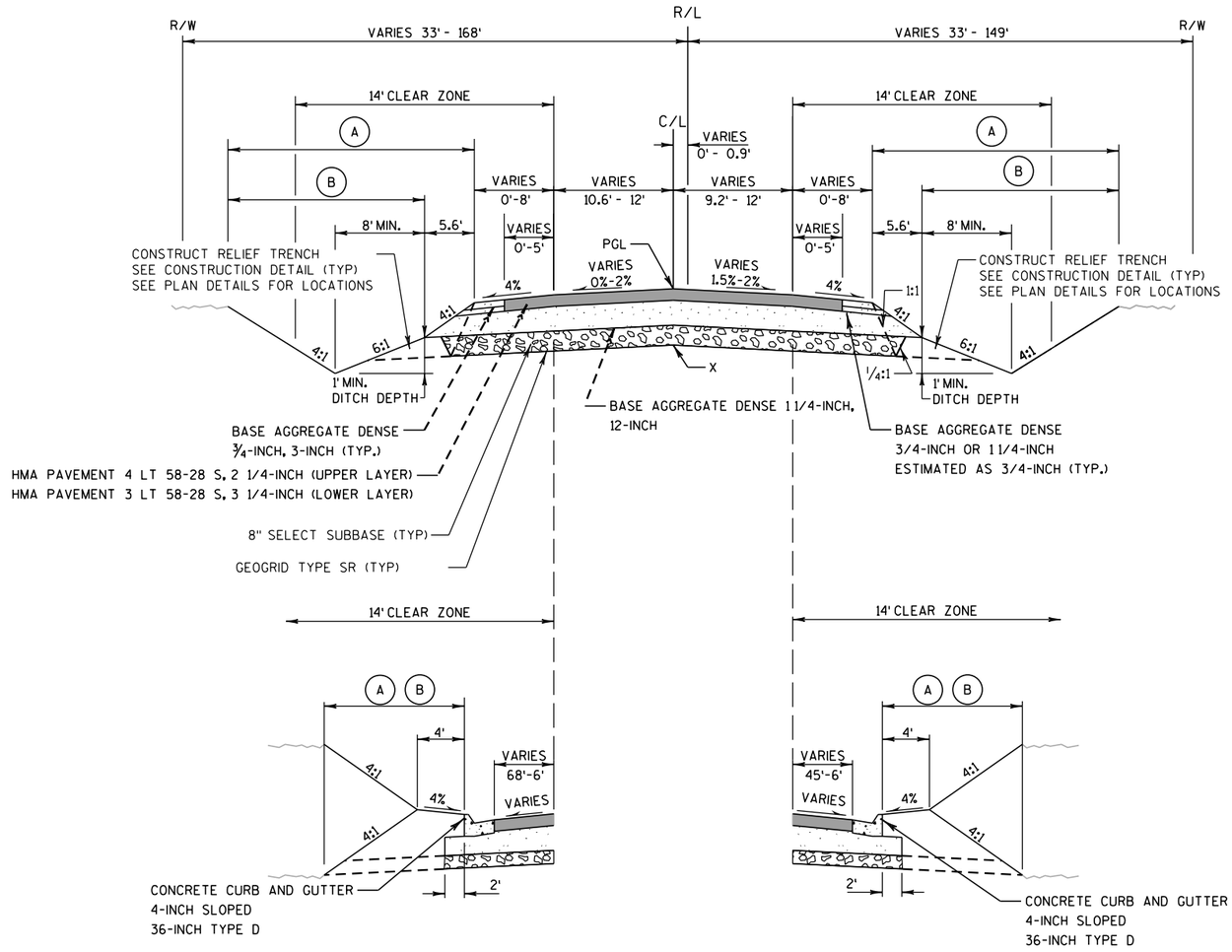
(B) 4" SALVAGED TOPSOIL AND MULCHING OR EROSION MAT

*EXCEPT USE SEEDING MIXTURE NO. 40 AT AREAS DESIGNATED IN THE EROSION CONTROL PLANS

NOTE:

PGL = POINT REFERRED TO ON PROFILE

X = POINT REFERRED TO ON CROSS SECTION



STA. 52+95 - STA. 53+35

STA. 52+99 - STA. 53+59

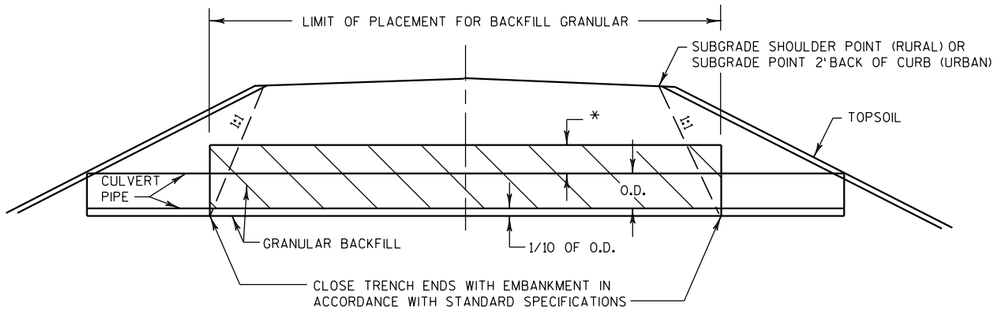
TYPICAL FINISHED SECTION

BRAUN ROAD

STA. 52+00 TO STA. 54+50

PROJECT NO: 1030-24-77	HWY: IH 94	COUNTY: RACINE	TYPICAL SECTIONS: BRAUN ROAD	SHEET 9	E

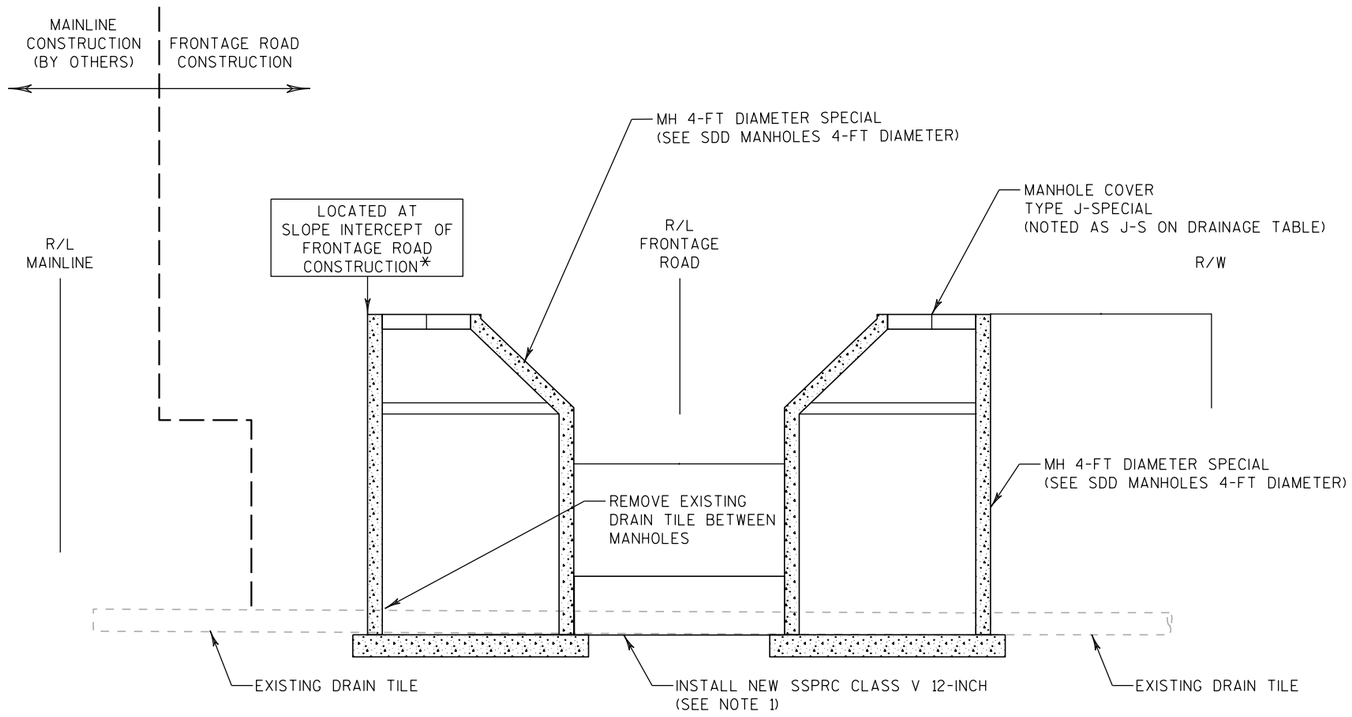
2



O.D. = OUTSIDE DIAMETER

* CULVERT PIPE IN NEW EMBANKMENT = 1' MIN
* CULVERT PIPE IN EXISTING EMBANKMENT = TO EXISTING GROUND ELEVATION

CULVERT BACKFILL DETAIL



STAGING

1. FRONTAGE ROAD CONSTRUCTION:

   CONSTRUCT MANHOLE 4-FT DIAMETER SPECIAL. CONNECT EXISTING TILE TO MANHOLE. REPLACE EXISTING TILE WITH SSPRC CLASS V 12-INCH BETWEEN MANHOLES.

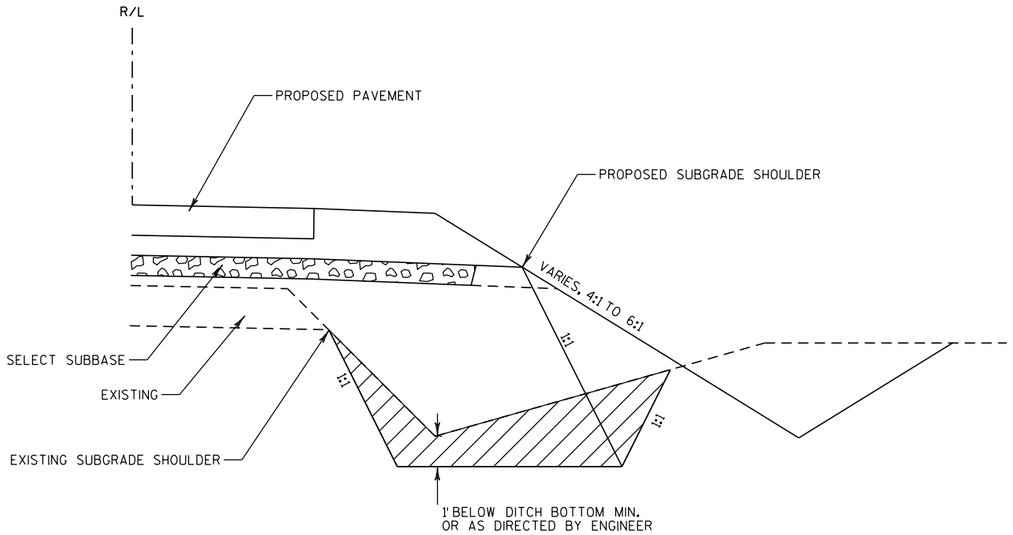
NOTES

1. IF EXISTING DRAIN TILE IS LARGER THAN 12", MATCH THE EXISTING SIZE IN THE FIELD.
2. GRADING AT MANHOLES WITHIN THE CLEAR ZONE OF THE FRONTAGE ROADS AND MAINLINE IS TO BE FLUSH WITH TOP OF THE MANHOLE.

* LOCATION CAN BE ADJUSTED AS NEEDED IF APPROVED BY THE ENGINEER

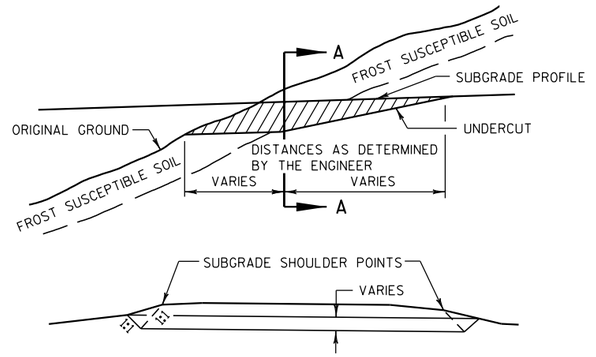
DRAIN TILE CONFIGURATION

(FOR FRONTAGE ROAD CROSSINGS)



EBS AT DITCH FILLS AT FRONTAGE ROADS

1. UTILIZE DETAIL FOR ALL AREAS WHERE FILL IS TO BE PLACED OVER AN EXISTING DITCH.
2. EXCAVATE AREA TO A MINIMUM OF 1-FOOT BELOW EXISTING DITCH BOTTOM OR AS DIRECTED BY ENGINEER IN THE FIELD.
3. EXACT LOCATIONS AND EXTENTS OF EBS SECTIONS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

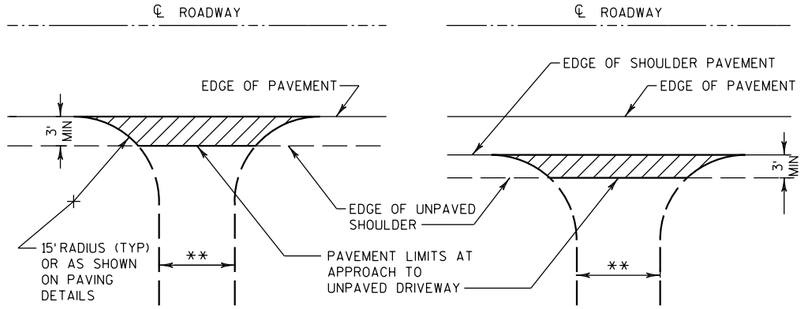


SECTION A-A
CROSS SECTION SHOWING UNDERCUT

NOTES

1. EXACT LOCATIONS AND EXTENT OF EBS SECTIONS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
2. THE FILL SECTION WITHIN 100' OF THE MOUTH OF THE CUT MUST BE KEPT 2' BELOW SUBGRADE UNTIL EBS IS COMPLETED.

EXCAVATION BELOW SUBGRADE AT CUTS

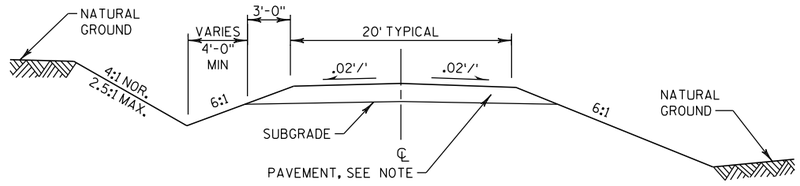


** SEE PAVING DETAILS FOR WIDTH REQUIRED.

PLAN VIEW

PLAN VIEW
(PAVED SHOULDER ON HIGHWAY)

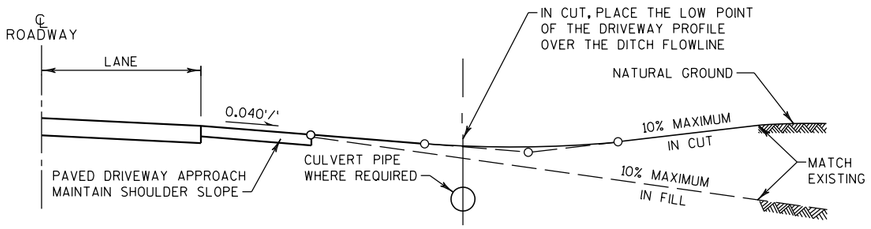
RURAL DRIVEWAY INTERSECTION



IN CUT

IN FILL

TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE



TYPICAL DRIVEWAY PROFILES

NOTES

1. WHERE DRIVEWAY IS PAVED, APPROACH PAVEMENT SHOULD BE EXTENDED TO MATCH DRIVEWAY PAVEMENT. SAWCUT IS REQUIRED.

2. DRIVEWAY SURFACE TO BE SAME AS EXISTING WITH MINIMUM SECTION OF:

   ASPHALTIC SURFACE (3 OR 4-INCH) DRIVEWAYS AND FIELD ENTRANCES OVER BASE AGGREGATE DENSE 3/4 -INCH (4-INCH)

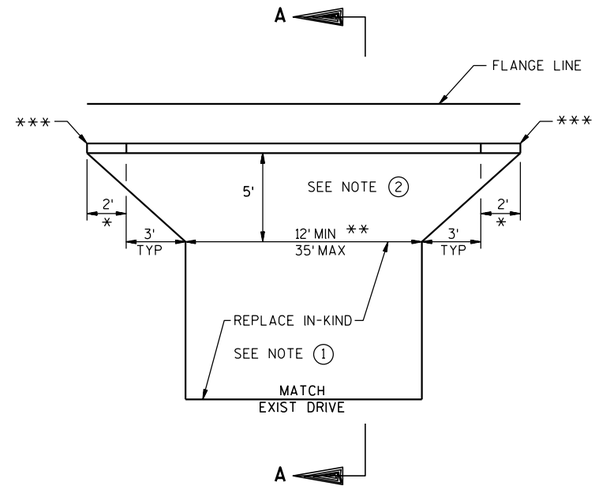
   OR

   CONCRETE DRIVEWAY 6-INCH OVER BASE AGGREGATE DENSE 3/4 -INCH (4-INCH)

   OR

   BASE AGGREGATE DENSE 3/4 -INCH (6-INCH)

RURAL DRIVEWAY



PLAN VIEW

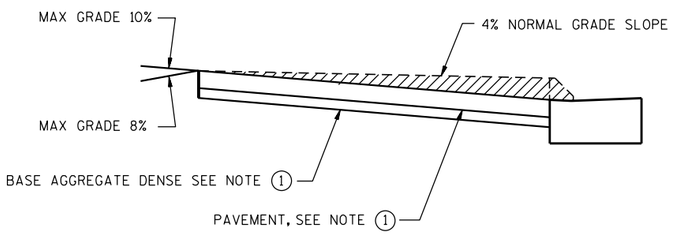
NOTES:

(1) DRIVEWAY SURFACE BEYOND APRON TO BE REPLACED IN-KIND WITH MINIMUM SECTION OF:

ASPHALTIC SURFACE (3-INCH) DRIVEWAYS AND FIELD ENTRANCES
OVER BASE AGGREGATE DENSE 3/4-INCH (4-INCH)
OR
BASE AGGREGATE DENSE 3/4-INCH (6-INCH)

(2) ALL URBAN DRIVEWAYS TO BACK OF APRON TO BE PAID FOR AS ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES

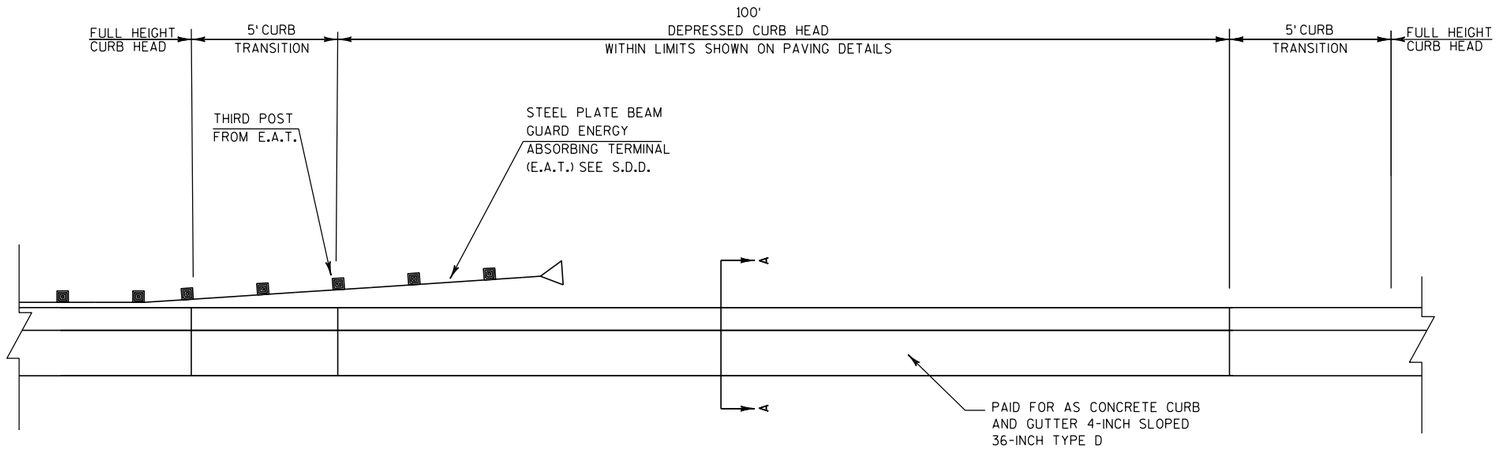
* TAPER CURB HEAD
** SEE PAVING DETAILS FOR WIDTH REQD
*** STATION SHOWN ON PAVING DETAILS

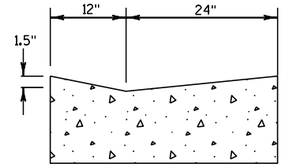


SECTION A-A

URBAN DRIVEWAY

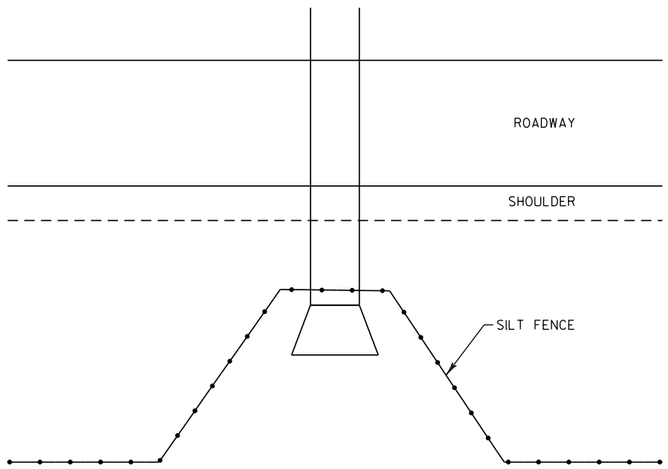
2





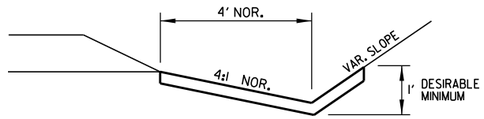
SECTION A-A
DEPRESSED CURB

DEPRESSED CURB HEAD AT BEAM GUARD TERMINAL



NOTE
SEE SILT FENCE SDD FOR ADDITIONAL INFORMATION.

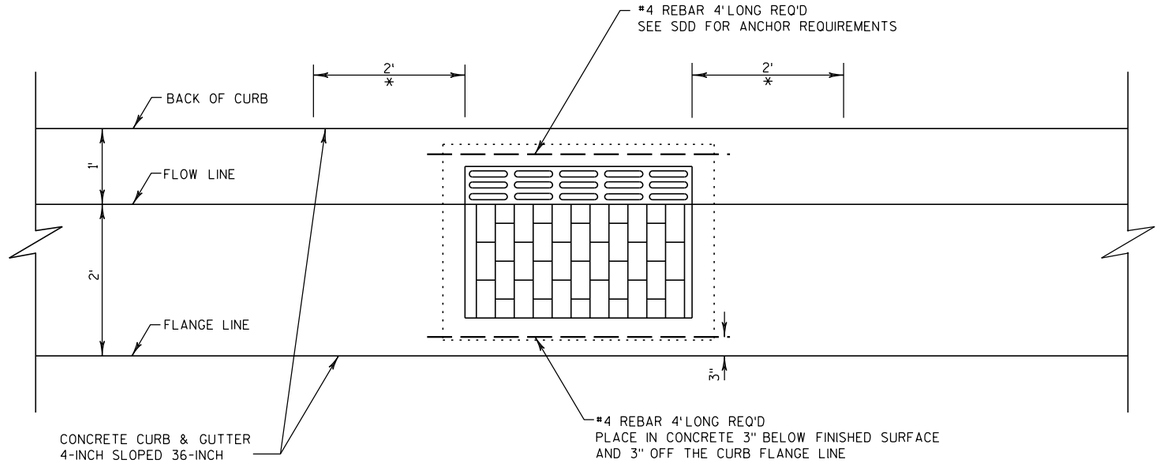
TYPICAL SILT FENCE DETAIL AT PIPE INLET



EROSION MAT DETAIL FOR DITCHES

PROJECT NO: 1030-24-77	HWY: IH 94	COUNTY: RACINE	CONSTRUCTION DETAILS: EAST FRONTAGE ROAD 090107	SHEET 14	E

2



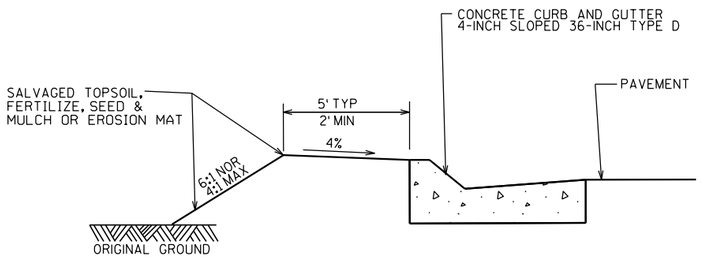
PLAN VIEW

* TRANSITION STANDARD CURB HEAD TO MATCH THE TYPE HM INLET COVER.

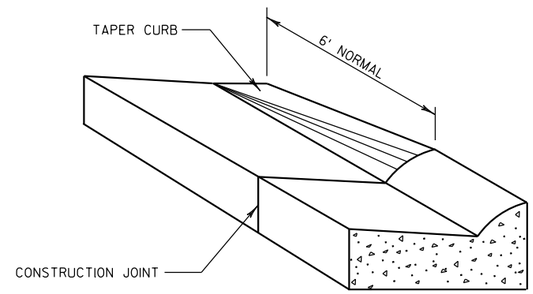
NOTES

1. SEE SDD "INLET COVERS TYPE F, HM, HM-S, S, V, HM-GJ, & HM-GJ-S" FOR ADDITIONAL INFORMATION.
2. THE TWO 2-FOOT LONG CURB TRANSITION SEGMENTS ARE PAID AS CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH.
3. THE TWO 4-FOOT LENGTHS OF #4 REBAR ARE INCIDENTAL TO THE BID ITEM "INLET COVERS TYPE HM".

INLET COVERS, TYPE HM



TYPICAL PARTIAL SECTION AT INTERSECTION RADII



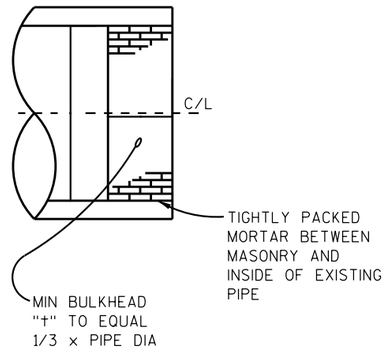
CURB & GUTTER TERMINI DETAIL

NOTE: USE 6 FT TRANSITION FOR CONCRETE AND ASPHALTIC CURB

RUNOFF COEFFICIENT TABLE

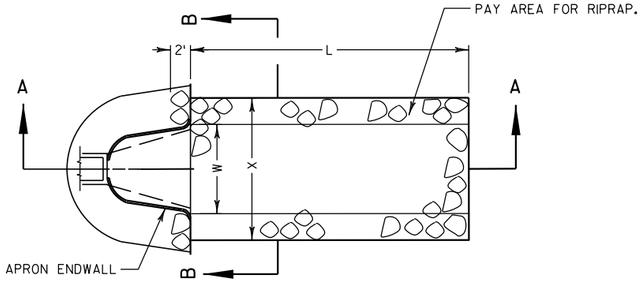
	HYDROLOGIC SOIL GROUP											
	A			B			C			D		
	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)		
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56
MEDIAN STRIP- TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22 .28	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40
SIDE SLOPE- TURF			.25 .32			.27 .34			.28 .36			.30 .38
PAVEMENT: HMA												
ASPHALT	.70 - .95											
CONCRETE	.80 - .95											
BRICK	.70 - .80											
DRIVES, WALKS	.75 - .85											
ROOFS	.75 - .95											
GRAVEL ROADS, SHOULDERS	.40 - .60											

TOTAL PROJECT AREA = 61 ACRES (R/W AREA FOR CTH KR TO STH 11 SEGMENT)
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 17.93 ACRES (I.D. 1030-24-77 DISTURBED AREA)

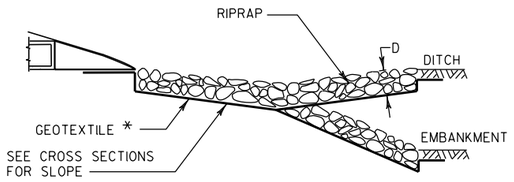


TEMPORARY BULKHEAD PIPE MASONRY

ITEM TO BE PAID FOR UNDER ITEM "SEALING PIPES"
FOR LOCATIONS SEE MISCELLANEOUS QUANTITIES SHEETS



PLAN VIEW



SECTION A-A

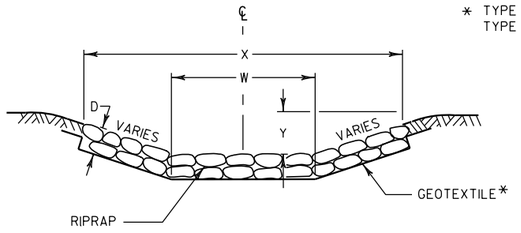
L = 3 x W (NOR) OR 10' MIN
OR AS INDICATED IN THE PLANS
OR AS DIRECTED BY THE ENGINEER

D = 12" FOR RIPRAP LIGHT
18" FOR RIPRAP MEDIUM
24" FOR RIPRAP HEAVY

X = W+2' FOR TYPICAL CULVERT
DISCHARGE INTO DITCH
W+5' FOR CULVERT DISCHARGE
DOWN EMBANKMENT SLOPE

Y = 0' FOR TYPICAL CULVERT
DISCHARGE INTO DITCH
12" FOR CULVERT DISCHARGE
DOWN EMBANKMENT SLOPE

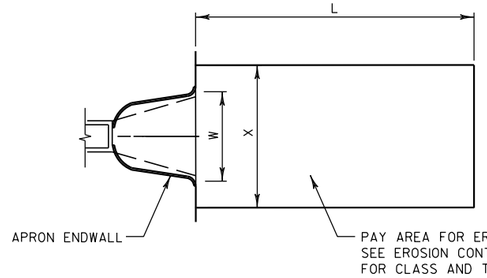
* TYPE R (FOR RIPRAP LIGHT ONLY)
TYPE HR (FOR RIPRAP HEAVY AND MEDIUM ONLY)



SECTION B-B

RIPRAP AND GEOTEXTILE FABRIC DETAIL AT APRON ENDWALLS

SEE EROSION CONTROL PLAN FOR LOCATIONS



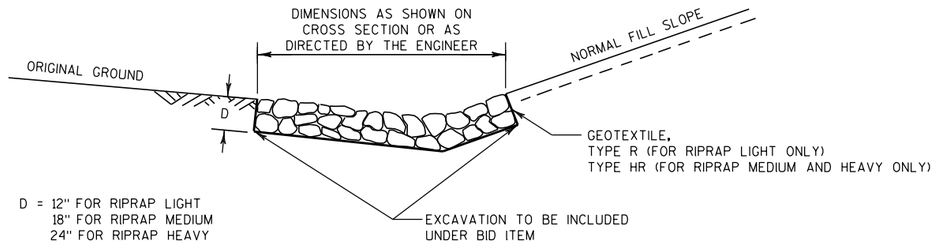
W = WIDTH OF APRON ENDWALL

L = 3 x W (NORMAL) OR 10' (MINIMUM) OR
AS INDICATED IN THE PLANS OR
AS DIRECTED BY THE ENGINEER.

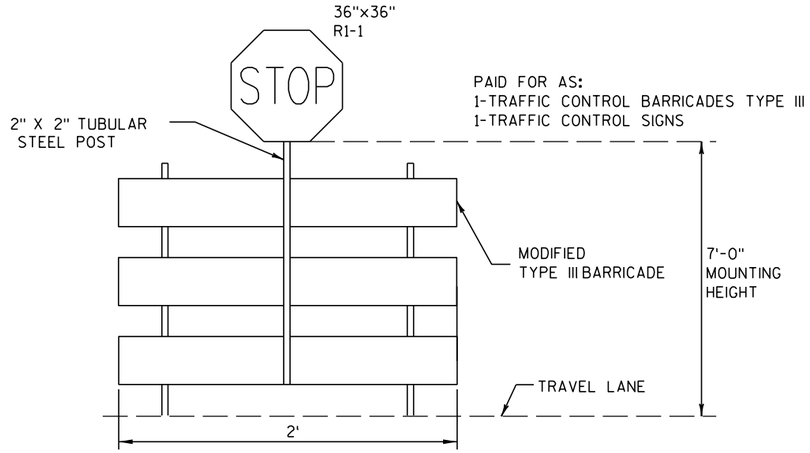
X = W+2' FOR TYPICAL CULVERT
DISCHARGE INTO DITCH
W+5' FOR CULVERT DISCHARGE
DOWN EMBANKMENT SLOPE

EROSION MAT TREATMENT AT CULVERTS

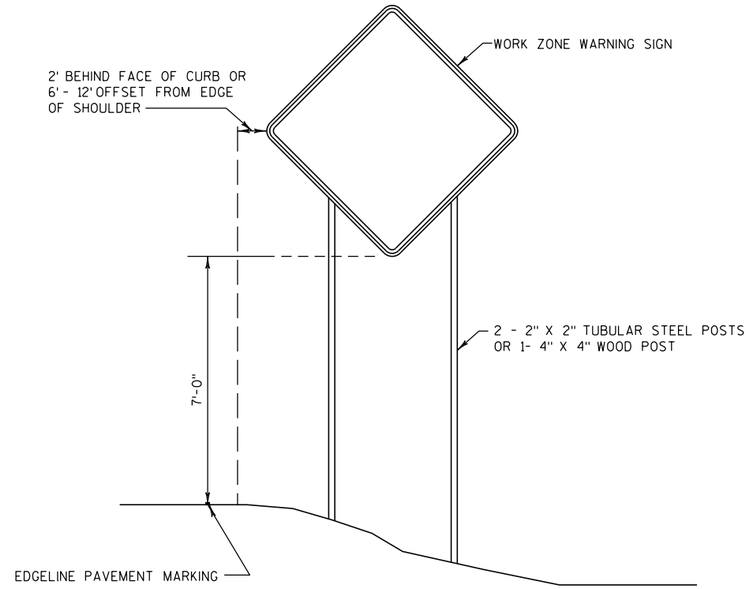
SEE EROSION CONTROL PLAN FOR LOCATIONS



RIPRAP IN DITCHES

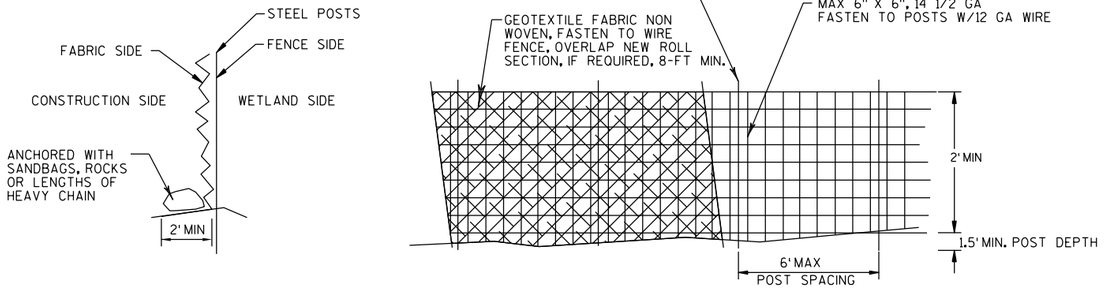


TEMPORARY STOP SIGN

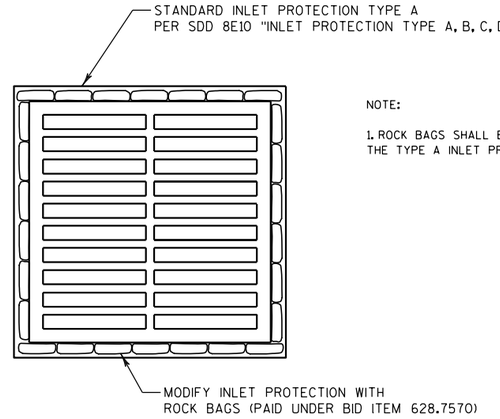


TYPICAL TEMPORARY TRAFFIC CONTROL SIGN
MOUNTING ON FIXED SUPPORT

LONG TERM
7 DAYS OR MORE



HEAVY DUTY SILT FENCE

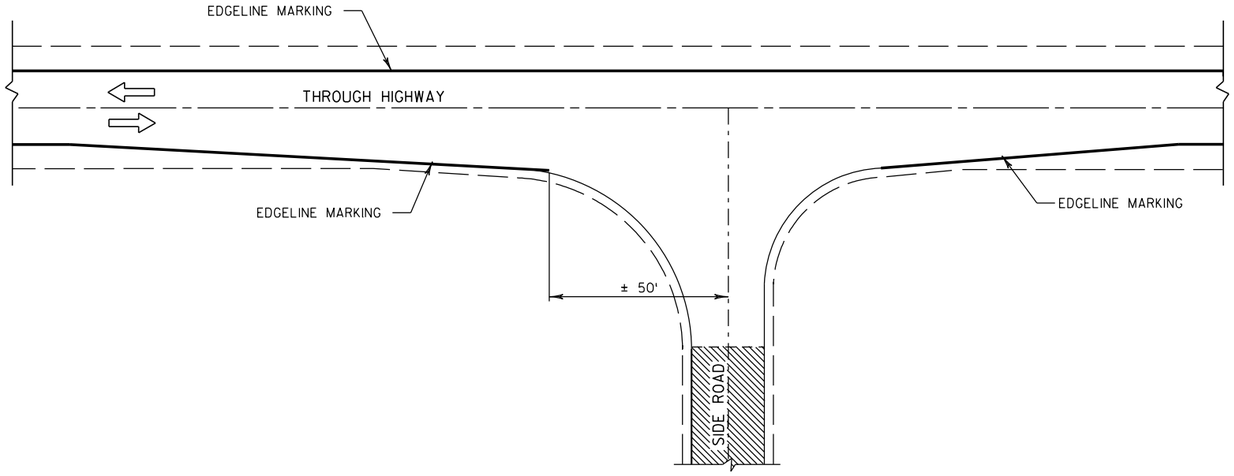


NOTE:

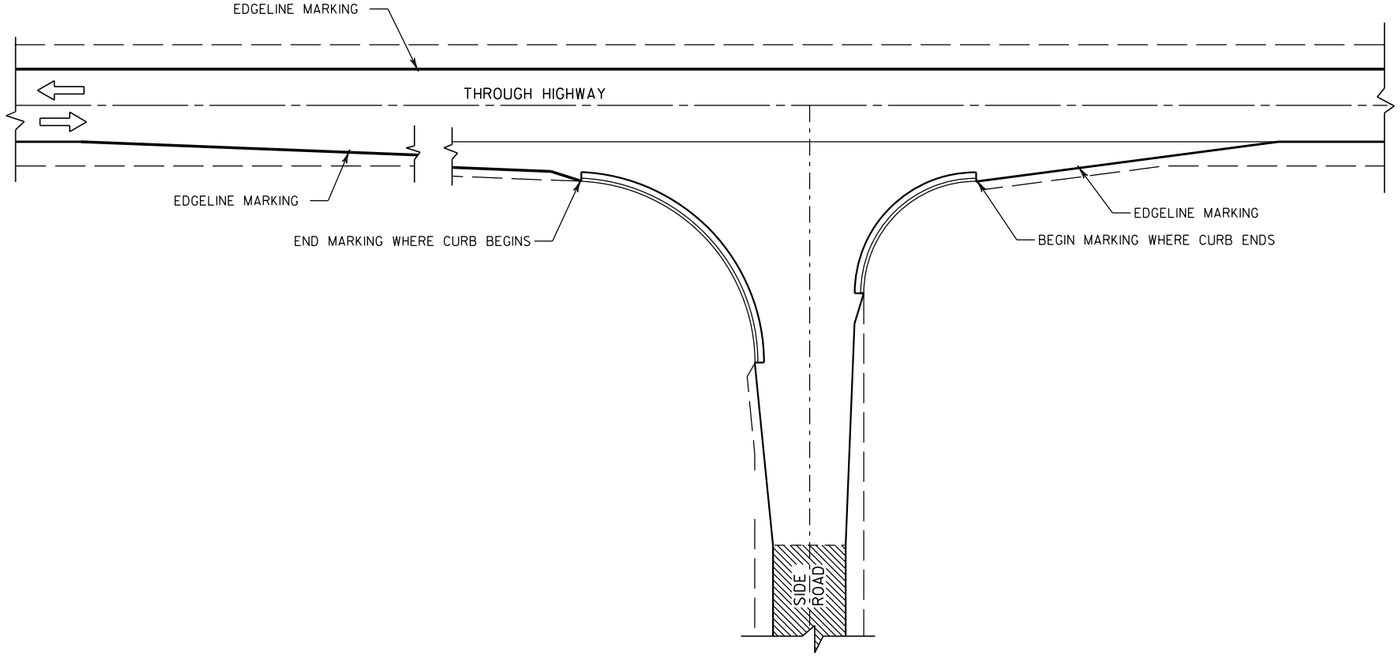
1. ROCK BAGS SHALL BE LAID END TO END INSIDE THE TYPE A INLET PROTECTION

INLET PROTECTION TYPE A MODIFIED DETAIL

2

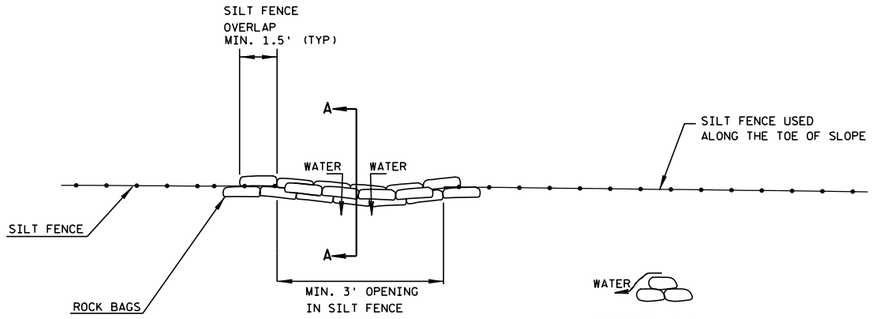


MINOR INTERSECTION WITHOUT CURBS
TYPICAL MARKING



MINOR INTERSECTION WITH CURBS
TYPICAL MARKING

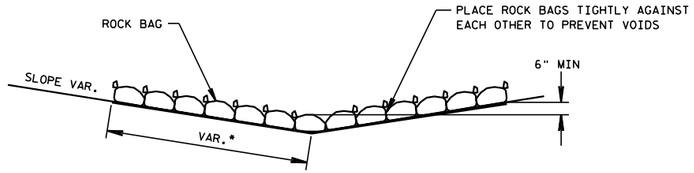
MINOR INTERSECTION EDGELINE MARKING



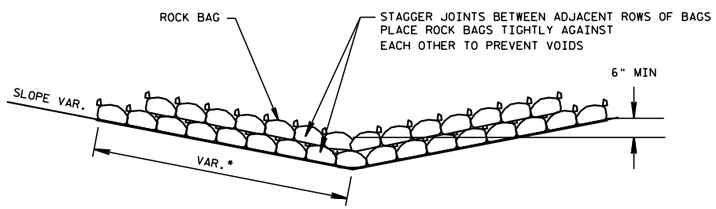
TOP VIEW

SECTION A-A

ROCK BAGS USED FOR SILT FENCE RELIEF DETAIL



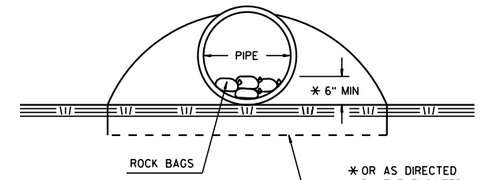
SIDE VIEW (SINGLE LAYER)



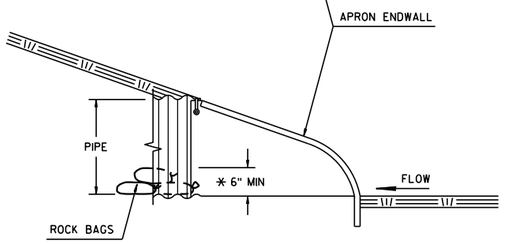
* LENGTH AND NUMBER OF BAGS MAY VARY
DEPENDING ON DESIRED DEPTH OF WATER POOL

SIDE VIEW (MULTIPLE LAYER)

DITCH CHECKS

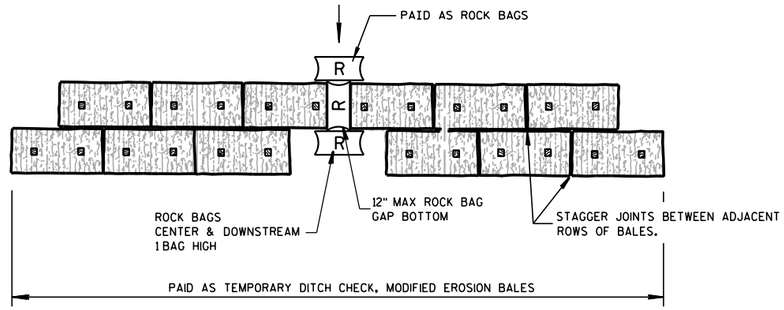


END VIEW

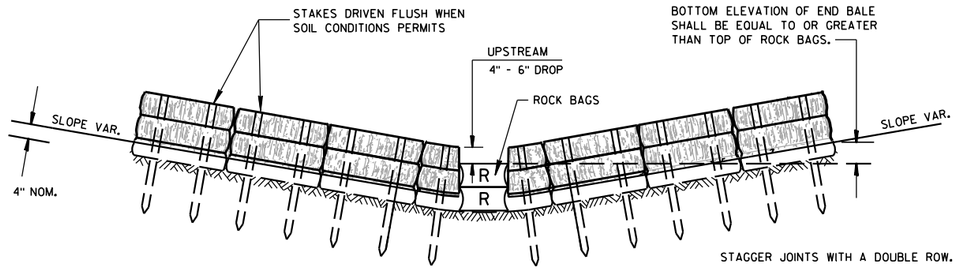


SIDE VIEW

CULVERT PIPE ENDS



PLAN VIEW



FRONT ELEVATION

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

TEMPORARY DITCH CHECK, MODIFIED EROSION BALES

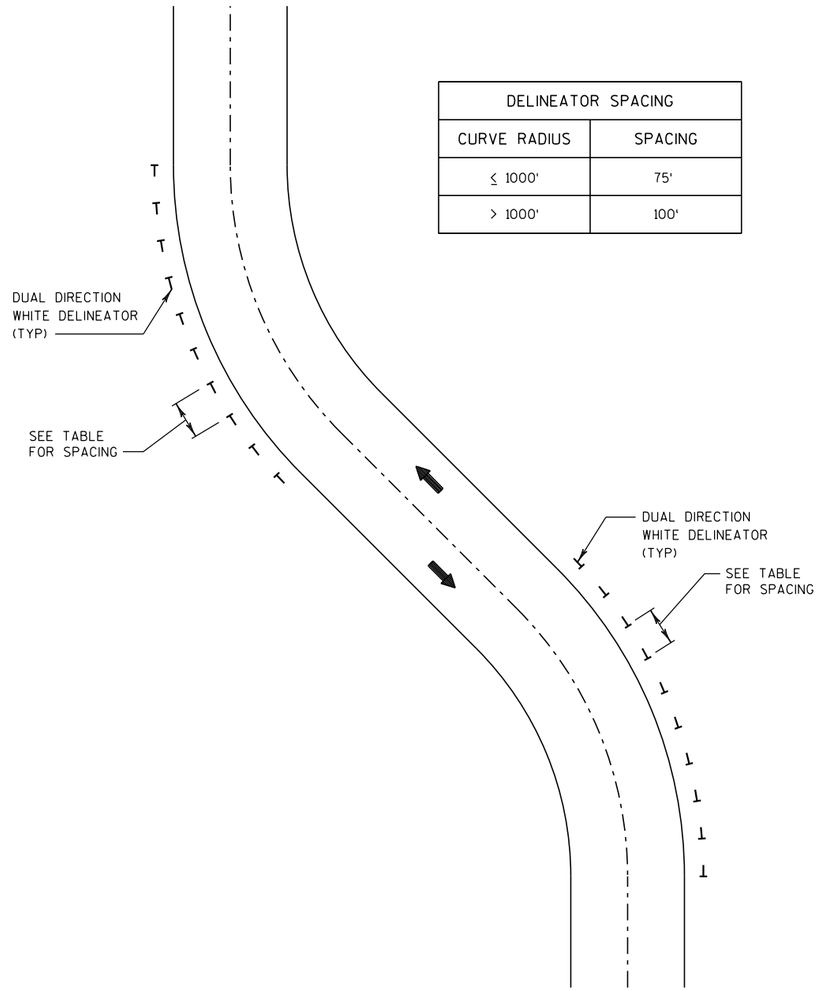
NOTES

1. DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND STANDARD DETAIL DRAWINGS.

2. DELINEATORS SHALL BE PLACED AT A CONSTANT DISTANCE FROM THE EDGE OF THE SHOULDER FOR THE LENGTH OF THE INSTALLATION.

3. INSTALL POST PERPENDICULAR TO ROADWAY, AT THE POINT OF INSTALLATION, SO THAT THE DELINEATORS ARE VISIBLE FROM BOTH DIRECTION.

DELINEATOR SPACING	
CURVE RADIUS	SPACING
≤ 1000'	75'
> 1000'	100'

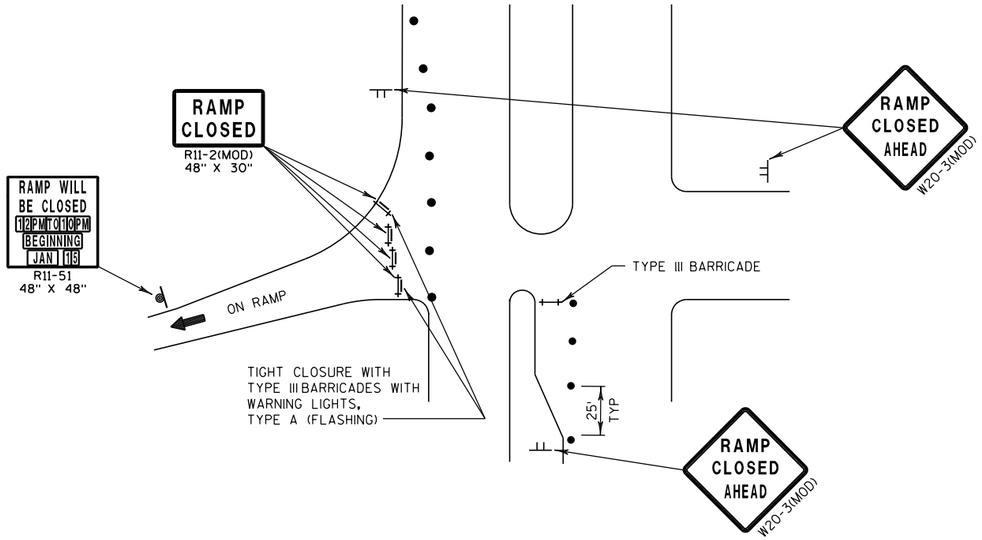


DELINEATOR SPACING

DELINEATOR LAYOUT ON FRONTAGE ROAD REVERSE CURVES

PROJECT NO: 1030-24-77	HWY: IH 94	COUNTY: RACINE	CONSTRUCTION DETAILS: EAST FRONTAGE ROAD	SHEET 22	E

2



LEGEND

- TRAFFIC CONTROL DRUM
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL III BARRICADE
- TRAFFIC CONTROL III BARRICADE WITH LIGHT TYPE A AND ATTACHED SIGN
- DIRECTION OF TRAFFIC

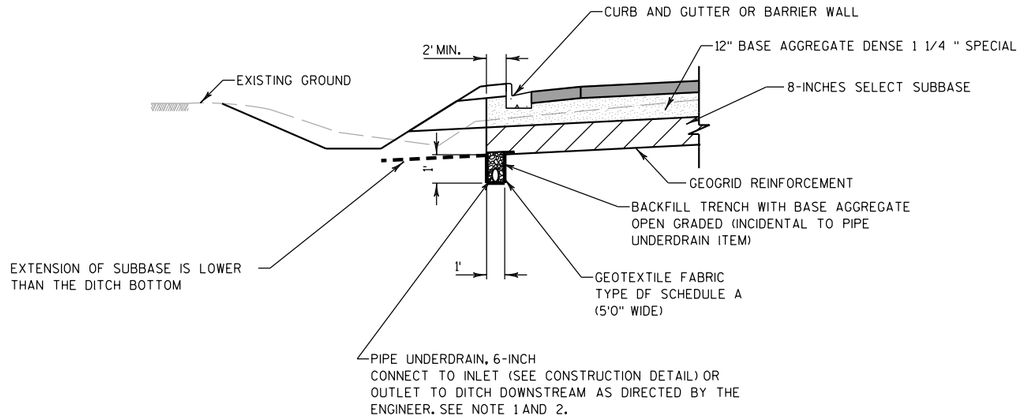
ENTRANCE RAMP CLOSURE

GENERAL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.



PIPE UNDERDRAIN IN URBAN SECTIONS

SEE PLAN DETAILS FOR PIPE UNDERDRAIN LOCATIONS

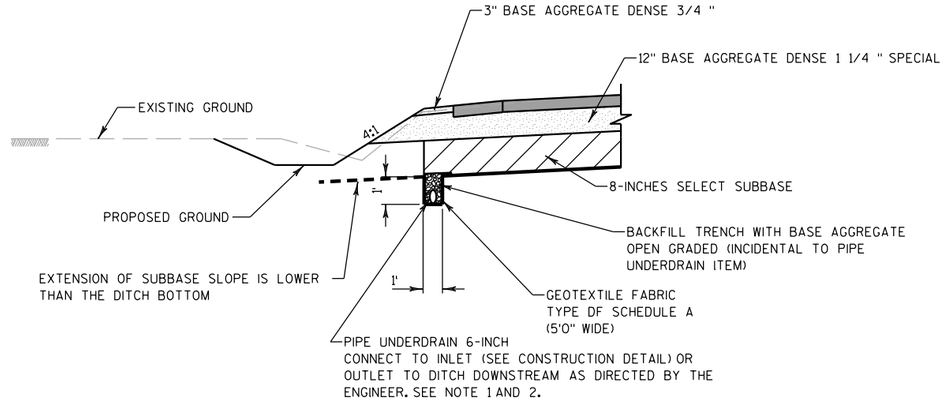
NOTES:

1. PIPE UNDERDRAIN UNPERFORATED REQUIRED AT LOCATIONS WHERE UNDERDRAIN IS REQUIRED TO CONNECT TO DITCHES OUTSIDE THE EBS AREA.

2. PIPE UNDERDRAIN UNPERFORATED REQUIRED AT LOCATIONS WHERE UNDERDRAIN IS REQUIRED TO OUTFALL IN DITCHES ON THE OPPOSITE SIDE OF THE ROAD (SEE UNDERDRAIN LATERAL CROSSING OUTLET DETAIL)

3. USE APRON ENDWALLS FOR UNDERDRAIN REINFORCED CONCRETE AT ALL DITCH OUTFALLS OF PIPE UNDERDRAIN.

4. ADJUST LATERAL LOCATION OF PIPE UNDERDRAIN AS NECESSARY TO AVOID CONFLICTS WITH THE STORM SEWER.



PIPE UNDERDRAIN IN RURAL SECTIONS

SEE PLAN DETAILS FOR PIPE UNDERDRAIN LOCATIONS

NOTES:

1. PIPE UNDERDRAIN UNPERFORATED REQUIRED AT LOCATIONS WHERE UNDERDRAIN IS REQUIRED TO CONNECT TO DITCHES OUTSIDE THE EBS AREA.

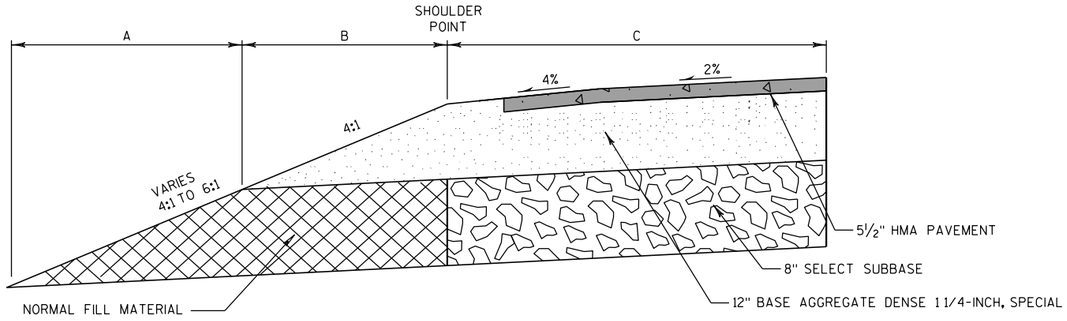
2. PIPE UNDERDRAIN UNPERFORATED REQUIRED AT LOCATIONS WHERE UNDERDRAIN IS REQUIRED TO OUTFALL IN DITCHES ON THE OPPOSITE SIDE OF THE ROAD (SEE UNDERDRAIN LATERAL CROSSING OUTLET DETAIL)

3. USE APRON ENDWALLS FOR UNDERDRAIN REINFORCED CONCRETE AT ALL DITCH OUTFALLS OF PIPE UNDERDRAIN.

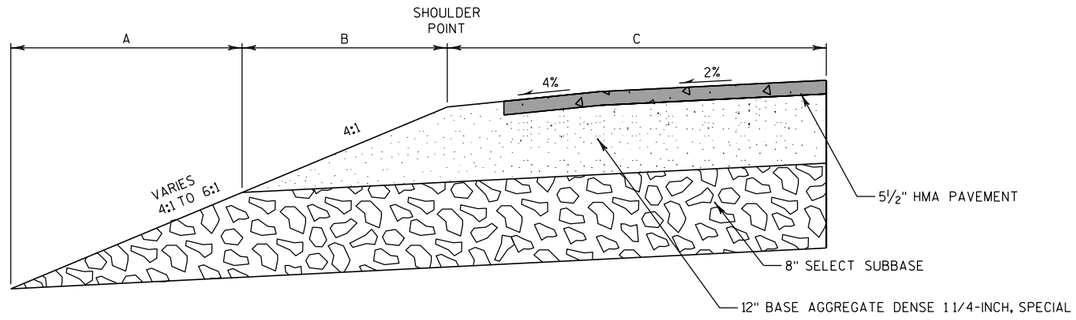
4. ADJUST LATERAL LOCATION OF PIPE UNDERDRAIN AS NECESSARY TO AVOID CONFLICTS WITH THE STORM SEWER.

2

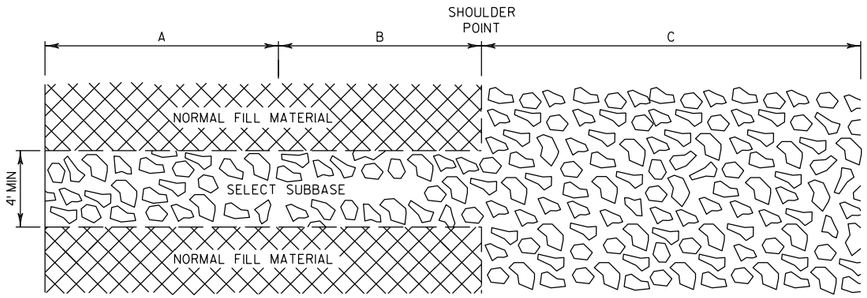
PROJECT NO: 1030-24-77	HWY: IH 94	COUNTY: RACINE	CONSTRUCTION DETAILS: EAST FRONTAGE ROAD	SHEET 24	E



TYPICAL HALF SECTION WITHOUT RELIEF TRENCH



TYPICAL HALF SECTION WITH RELIEF TRENCH



RELIEF TRENCH PLAN VIEW

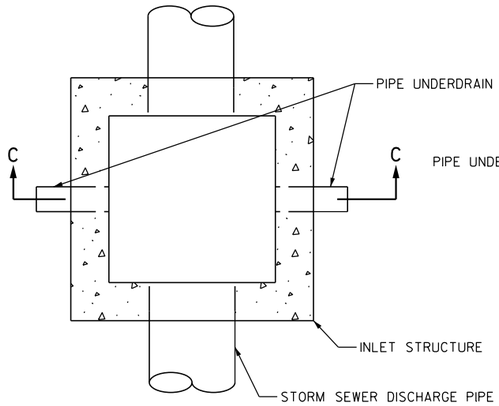
RELIEF TRENCH

SEE PLAN DETAILS FOR RELIEF TRENCH LOCATIONS.

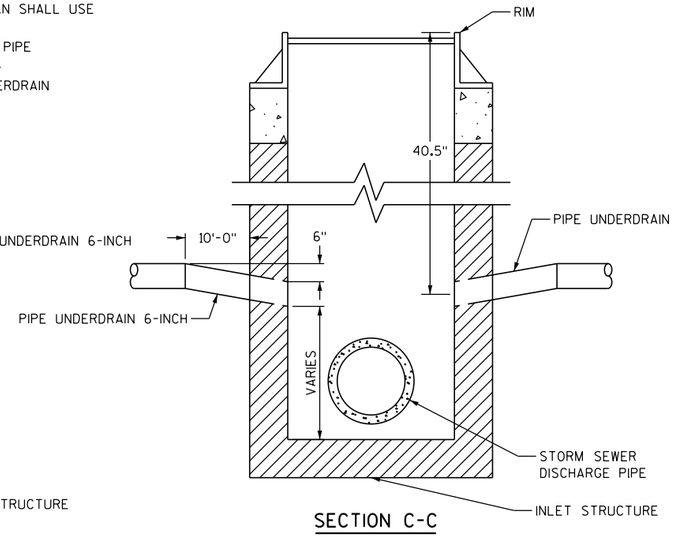
NOTE: EXCAVATION FOR RELIEF TRENCHES TO BE PAID UNDER THE ITEM EXCAVATION COMMON

NOTES

1. CONNECTIONS TO INLETS OR MANHOLES IN MEDIAN SHALL USE PIPE UNDERDRAIN, 6-INCH.
2. PROVIDE TWO 6" DIA. OPENINGS FOR UNDERDRAIN PIPE A MINIMUM OF 40.5" BELOW THE RIM ELEVATION.
3. SEE TYPICAL SECTIONS, STORM SEWER, AND UNDERDRAIN PLANS FOR PIPE UNDERDRAIN LOCATIONS.



PLAN VIEW



SECTION C-C

UNDERDRAIN OUTFALL AT INLET

2

N

PROP R/W

EXIST R/W

WEST FRONTAGE ROAD

4672

4674

4676

EXIST R/W

???

EXISTING APRON ENDWALL TO REMAIN
CONTRACTOR TO GRADE AROUND BUT
NOT TO DISTURB APRON ENDWALL.

IH-94 SB

662

664

666

668

670

672

674

676

R/L IH 94

IH-94 NB

REMOVE SMALL
PIPE CULVERT
(1 - 18" CPCM)

SAWING ASPHALT
REQUIRED

REMOVE SMALL
PIPE CULVERT
(1 - 18" CPCM)

REMOVE SMALL
PIPE CULVERT
(1 - 18" CPCM)

RM

+40

SALVAGE RAIL

SALVAGE GUARDRAIL
END TREATMENT

SALVAGE GUARDRAIL
END TREATMENT

+25

+60

5670

5672

5674

5676

5676+50

MATCHLINE 5676+50

EAST FRONTAGE ROAD

R/L EAST FRONTAGE ROAD

EXIST R/W

PROP R/W

5668

5666

5664

WETLAND BOUNDARY

PROP R/W

SLOPE INTERCEPT

PROP R/W

SLOPE INTERCEPT

PROP R/W

SAWING ASPHALT
REQUIRED

BEGIN PROJECT
I.D. 1030-24-77

STA. 5664+50
=MATCH PROJECT
I.D. 1035-03-70

LEGEND

- CLEARING AND GRUBBING (I.D.)
- CLEARING AND GRUBBING (STA.)
- REMOVING PAVEMENT
- REMOVING CURB AND GUTTER
- REMOVING FENCE
- REMOVING GUARDRAIL
- REMOVING INLETS
- REMOVING MANHOLES
- SLOPE INTERCEPT
- ABANDONING STORM SEWER
- REMOVING STORM SEWER, CULVERTS, OR DRAIN TILE

PROJECT NO: 1030-24-77	HWY: IH 94	COUNTY: RACINE	REMOVAL PLAN: EAST FRONTAGE ROAD	SHEET 26	E

FILE NAME : Z:\Racine\CADDS\12\12E\CDS\021101_RM.dgn PLOT DATE : 7/27/2017 PLOT BY : cory.ihde PLOT NAME : PLOT SCALE : 1:100

2

N

EXIST R/W

PROP R/W

PROP R/W

EXIST R/W

4678 4680 4682 4684 WEST FRONTAGE ROAD 4686 4688 4690

IH-94 SB

R/L IH 94

678 680 682 684 686 688 690

IH-94 NB

SLOPE INTERCEPT

REMOVE SMALL PIPE CULVERT (1 - 24" CPCM)

REMOVE SMALL PIPE CULVERT (1 - 24" CPCM)

REMOVE SMALL PIPE CULVERT (1 - 18" CPCM)

EAST FRONTAGE ROAD

REMOVING STORM SEWER (30" SSPCM)

REMOVE SMALL PIPE CULVERT (1 - 24" CPCM)

MATCHLINE 5676+50

MATCHLINE 5691+50

5678 5680 5682 RM 5684 5686 RM 5688 5690 RM

R/L EAST FRONTAGE ROAD

SLOPE INTERCEPT

+34

+83

+75

EXIST R/W

PROP R/W

PROP R/W

PROP R/W

TLE

TLE

TLE

TLE

WETLAND BOUNDARY

SAWING ASPHALT REQUIRED

LEGEND

- CLEARING AND GRUBBING (I.D.)
- CLEARING AND GRUBBING (STA.)
- REMOVING PAVEMENT
- REMOVING CURB AND GUTTER
- REMOVING FENCE
- REMOVING GUARDRAIL
- REMOVING INLETS
- REMOVING MANHOLES
- SLOPE INTERCEPT
- ABANDONING STORM SEWER
- REMOVING STORM SEWER, CULVERTS, OR DRAIN TILE

PROJECT NO: 1030-24-77	HWY: IH 94	COUNTY: RACINE	REMOVAL PLAN: EAST FRONTAGE ROAD	SHEET 27	E

FILE NAME : Z:\Racine\CADDS\12\12E\CDS\021102_RM.dgn PLOT DATE : 7/27/2017 PLOT BY : cory.ihde PLOT NAME : PLOT SCALE : 1:100

2

N

PROP R/W
TLE
TLE
PROP R/W
EXIST R/W
WEST FRONTAGE ROAD
4692
4694
4696
4698
4700
4702
4704
4706
CEMETERY
CEMETERY
IH-94 SB
692
694
696
698
700
702
704
706
IH-94 NB
EXISTING BOX CULVERT C-51-12
R/L IH 94
SLOPE INTERCEPT
MATCHLINE 5691+50
5692
5694
5696
5698
5700
5702
5704
5706
MATCHLINE 5706+50
EAST FRONTAGE ROAD
EXIST R/W
PROP R/W
TLE
PLE
TLE
PROP R/W
EXIST R/W
PROP R/W
PROP R/W
SLOPE INTERCEPT
EXIST R/W
PROP R/W
R/L EAST FRONTAGE ROAD
PROP R/W
C-51-12
BOX CULVERT EXTENSION
PREVIOUSLY CONSTRUCTED
UNDER I.D. 1030-24-80
EXISTING 18-INCH DRIVEWAY CULVERT
PREVIOUSLY CONSTRUCTED UNDER I.D.
1030-24-60 TO REMAIN
WETLAND BOUNDARY

LEGEND

- CLEARING AND GRUBBING (I.D.)
- CLEARING AND GRUBBING (STA.)
- REMOVING PAVEMENT
- REMOVING CURB AND GUTTER
- REMOVING FENCE
- REMOVING GUARDRAIL
- REMOVING INLETS
- REMOVING MANHOLES
- SLOPE INTERCEPT
- ABANDONING STORM SEWER
- REMOVING STORM SEWER, CULVERTS, OR DRAIN TILE

PROJECT NO: 1030-24-77	HWY: IH 94	COUNTY: RACINE	REMOVAL PLAN: EAST FRONTAGE ROAD	SHEET 28	E

FILE NAME : Z:\Racine\CADDS\12\12E\CDS\021103_RM.dgn PLOT DATE : 7/27/2017 PLOT BY : cory.ihde PLOT NAME : PLOT SCALE : 1:100

2

N

EXIST R/W

EXIST R/W

PROP R/W

EXIST R/W

WEST FRONTAGE ROAD

4708 4710 2712 2714 2716 2718 2720

???

BRAUN RD

50

SAWCUT FOR PROPOSED STORM SEWER INSTALLATION
SEE BRAUN ROAD STORM SEWER PLAN & PROFILE
SHEET FOR INFORMATION

IH-94 SB

R/L IH 94

708 710 712 714 716 718 720

BEGIN CONSTRUCTION
STA. 52+00
MATCH EXISTING

IH-94 NB

REMOVE MARKERS

REMOVE SMALL
PIPE CULVERT
(1 - 30" CPCM)

SLOPE INTERCEPT

R/L EAST FRONTAGE ROAD

MATCHLINE 5706+50

5708 5710 3712 3714 3716 3718 3720

MATCHLINE 3721+50

EAST FRONTAGE ROAD

RM

EXIST R/W

REMOVE SMALL
PIPE CULVERT
(1 - 24" CPCM)

EXIST R/W

PROP R/W

TLE

REMOVE SMALL PIPE CULVERT
(1 - 24" CPRC)

PROP R/W

SLOPE INTERCEPT

WETLAND BOUNDARY

STATION EQUATION
STA. 5711+08.66 BK=
STA. 3711+06.80 AH=
STA. 52+78.43 BRAUN RD.

54

END CONSTRUCTION
STA. 54+50
MATCH EXISTING

SAWING ASPHALT REQUIRED

55

EXIST R/W

EXIST R/W

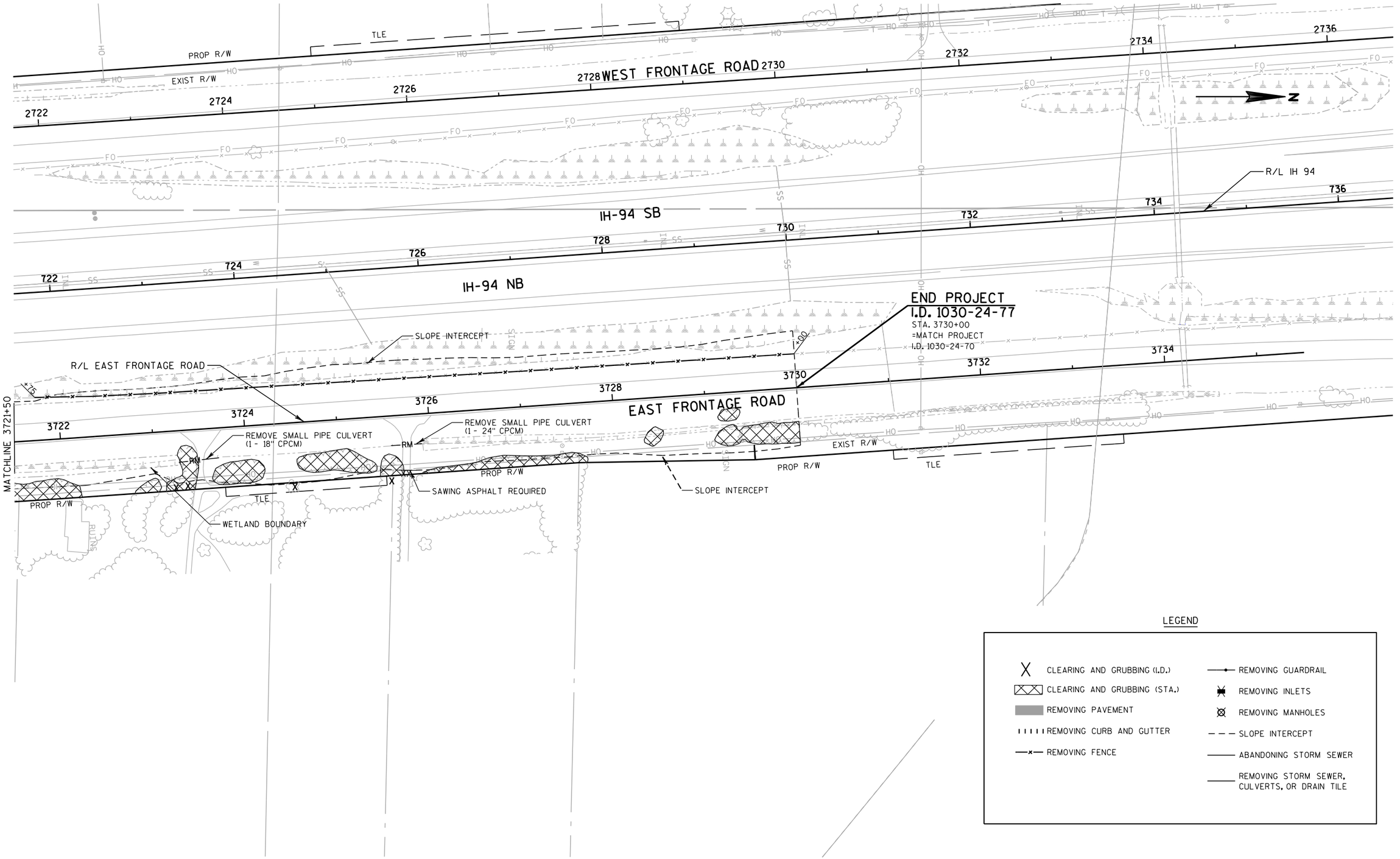
LEGEND

- CLEARING AND GRUBBING (L.D.)
- CLEARING AND GRUBBING (STA.)
- REMOVING PAVEMENT
- REMOVING CURB AND GUTTER
- REMOVING FENCE
- REMOVING GUARDRAIL
- REMOVING INLETS
- REMOVING MANHOLES
- SLOPE INTERCEPT
- ABANDONING STORM SEWER
- REMOVING STORM SEWER, CULVERTS, OR DRAIN TILE

PROJECT NO: 1030-24-77	HWY: IH 94	COUNTY: RACINE	REMOVAL PLAN: EAST FRONTAGE ROAD	SHEET 29	E

FILE NAME : Z:\Racine\CADDS\12\12E\CDS\021104_RM.dgn PLOT DATE : 7/27/2017 PLOT BY : cory.ihde PLOT NAME : PLOT SCALE : 1:100

2



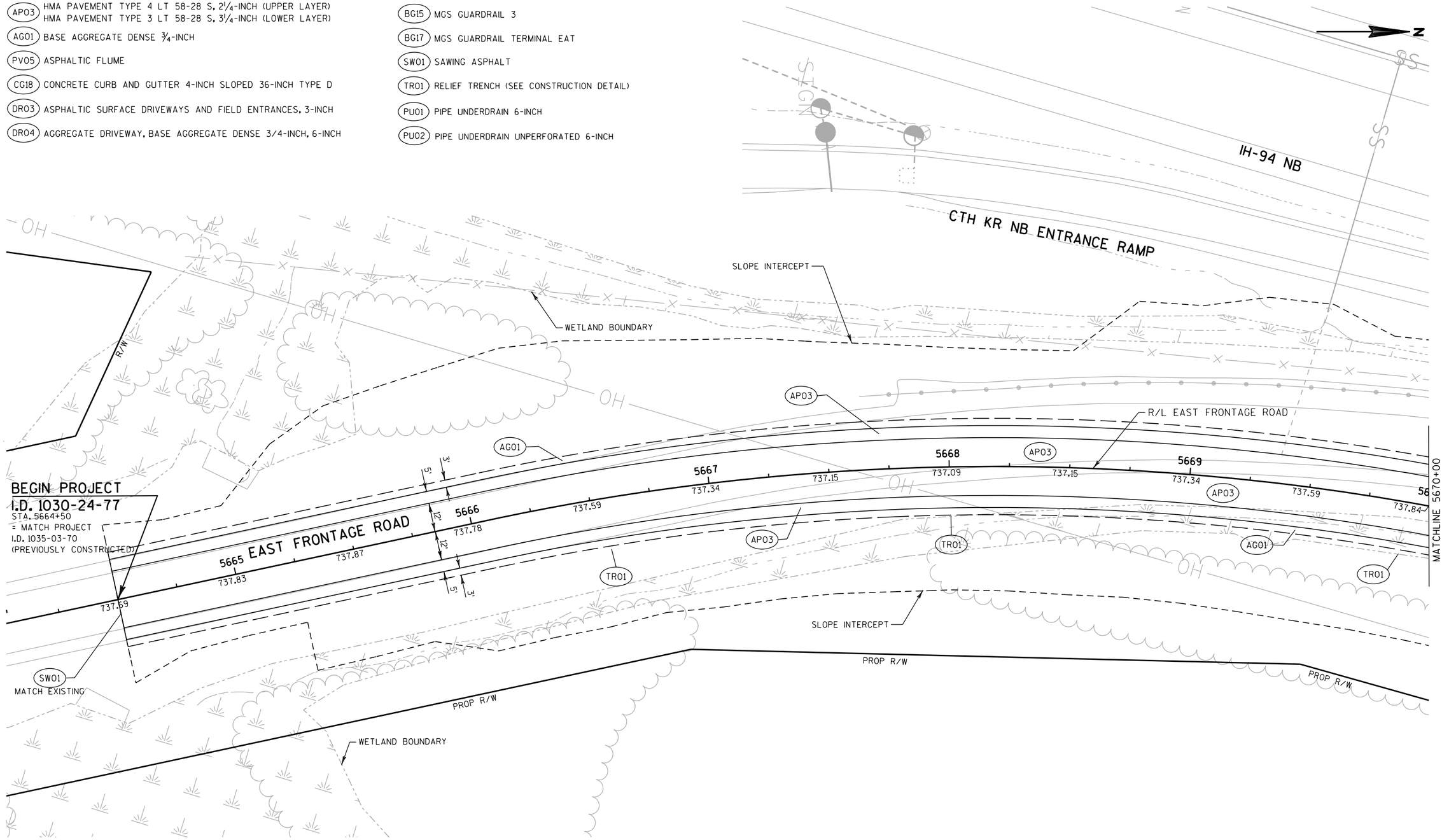
LEGEND

- CLEARING AND GRUBBING (I.D.)
- CLEARING AND GRUBBING (STA.)
- REMOVING PAVEMENT
- REMOVING CURB AND GUTTER
- REMOVING FENCE
- REMOVING GUARDRAIL
- REMOVING INLETS
- REMOVING MANHOLES
- SLOPE INTERCEPT
- ABANDONING STORM SEWER
- REMOVING STORM SEWER, CULVERTS, OR DRAIN TILE

PROJECT NO: 1030-24-77	HWY: IH 94	COUNTY: RACINE	REMOVAL PLAN: EAST FRONTAGE ROAD	SHEET 30	E

PAVEMENT DETAIL LEGEND

- APO3 — HMA PAVEMENT TYPE 4 LT 58-28 S, 2¼-INCH (UPPER LAYER)
  HMA PAVEMENT TYPE 3 LT 58-28 S, 3¼-INCH (LOWER LAYER)
- AGO1 — BASE AGGREGATE DENSE ¾-INCH
- PVO5 — ASPHALTIC FLUME
- CG18 — CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- DRO3 — ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- DRO4 — AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH, 6-INCH
- BG15 — MGS GUARDRAIL 3
- BG17 — MGS GUARDRAIL TERMINAL EAT
- SWO1 — SAWING ASPHALT
- TRO1 — RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- PUO1 — PIPE UNDERDRAIN 6-INCH
- PUO2 — PIPE UNDERDRAIN UNPERFORATED 6-INCH

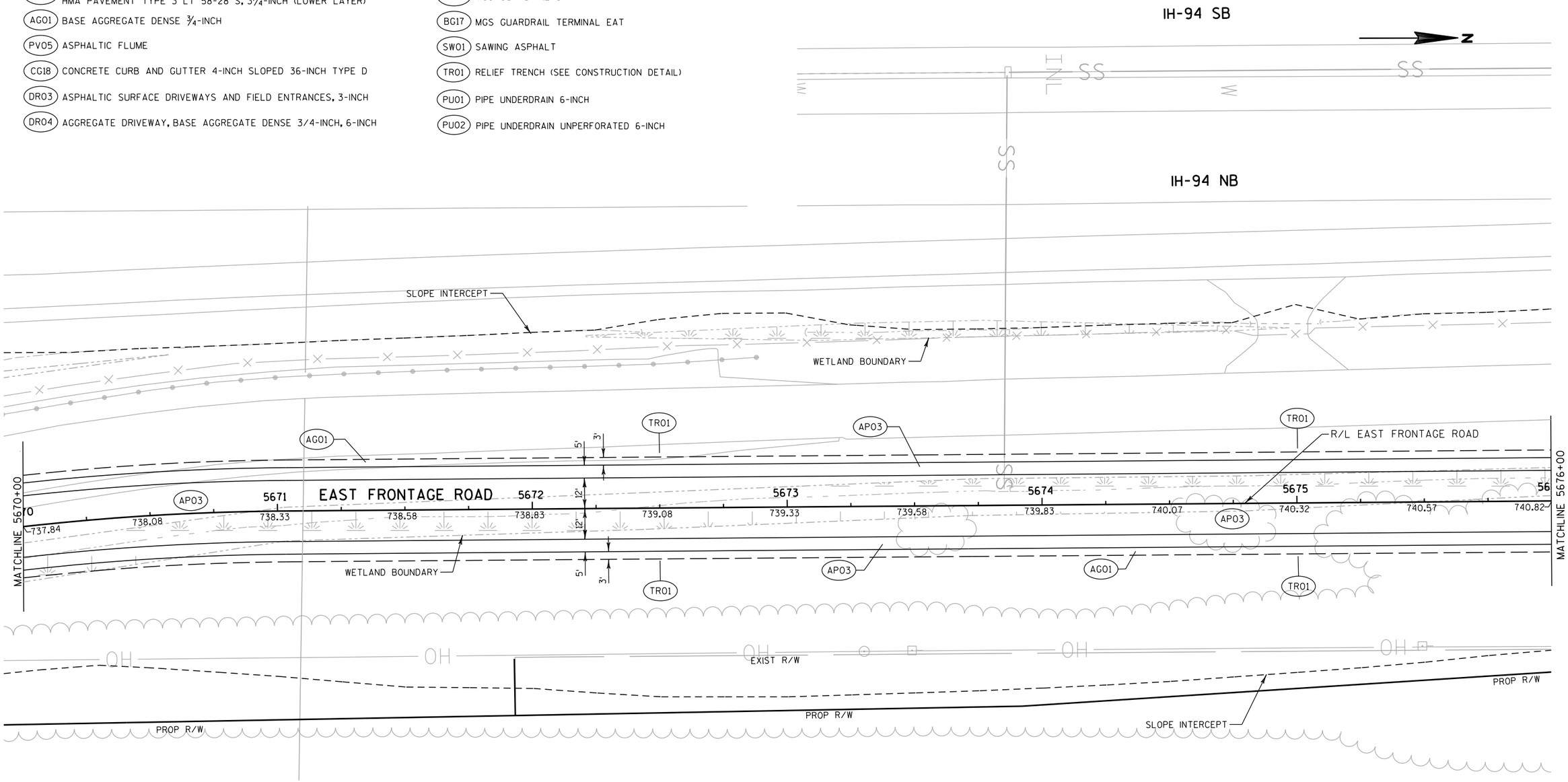


PROJECT NO: 1030-24-77	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL: EAST FRONTAGE ROAD	SHEET 31	E

FILE NAME : Z:\Racine\CADDS\12\12E\CDS\021201_pd.dgn PLOT DATE : 9/18/2017 PLOT BY : cory.ihde PLOT NAME : PLOT SCALE : 1:40

PAVEMENT DETAIL LEGEND

- (APO3) HMA PAVEMENT TYPE 4 LT 58-28 S, 2¼-INCH (UPPER LAYER)
  HMA PAVEMENT TYPE 3 LT 58-28 S, 3¼-INCH (LOWER LAYER)
- (AGO1) BASE AGGREGATE DENSE ¾-INCH
- (PVO5) ASPHALTIC FLUME
- (CG18) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- (DRO3) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- (DRO4) AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH, 6-INCH
- (BG15) MGS GUARDRAIL 3
- (BG17) MGS GUARDRAIL TERMINAL EAT
- (SW01) SAWING ASPHALT
- (TRO1) RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- (PU01) PIPE UNDERDRAIN 6-INCH
- (PU02) PIPE UNDERDRAIN UNPERFORATED 6-INCH

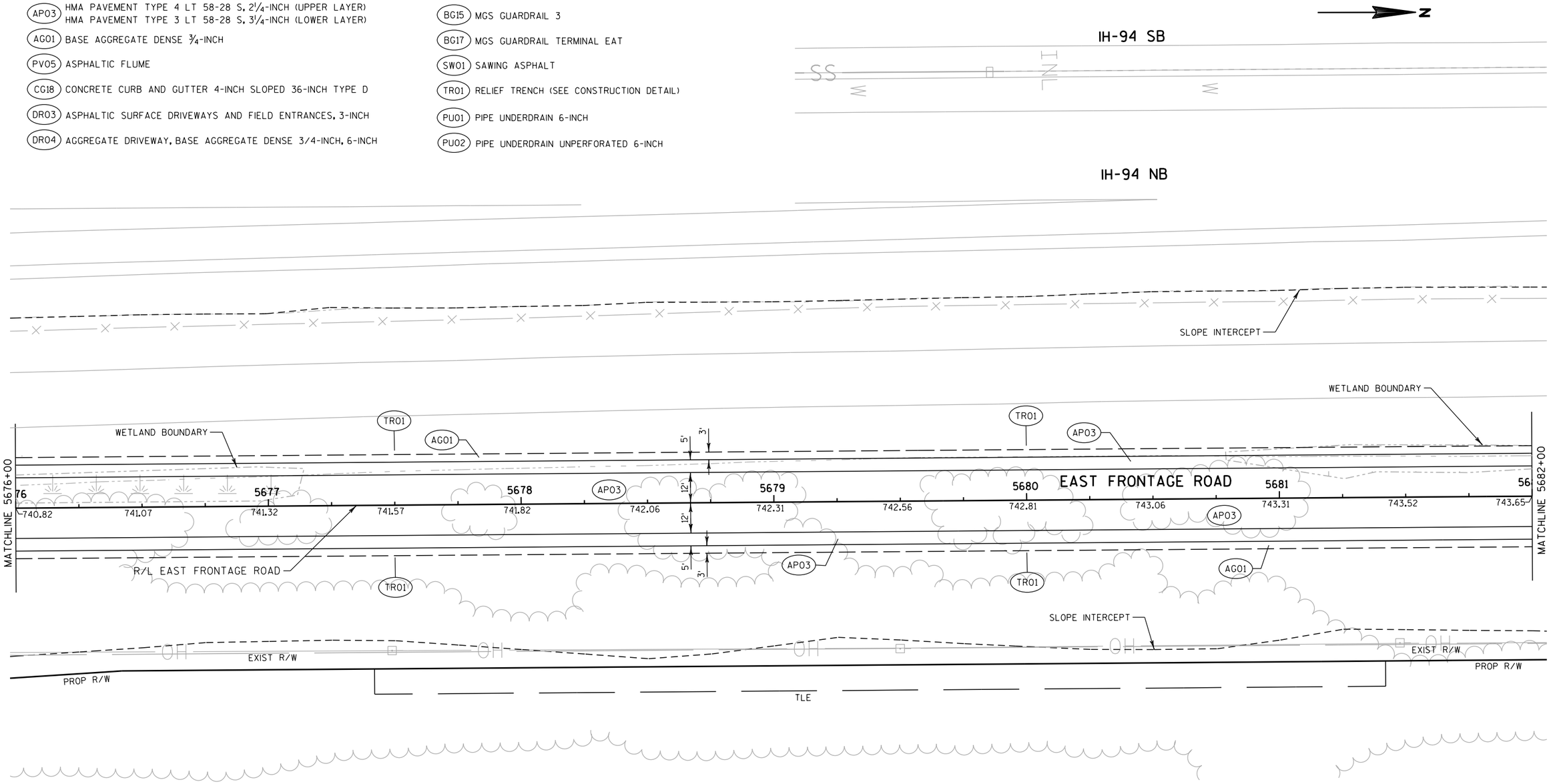


PROJECT NO: 1030-24-77	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL: EAST FRONTAGE ROAD	SHEET 32	E

FILE NAME : Z:\Racine\CADDS\12\12E\CDS\021202_pd.dgn PLOT DATE : 9/18/2017 PLOT BY : cory.ihde PLOT NAME : PLOT SCALE : 1:40

PAVEMENT DETAIL LEGEND

- (AP03) HMA PAVEMENT TYPE 4 LT 58-28 S, 2¼-INCH (UPPER LAYER)
  HMA PAVEMENT TYPE 3 LT 58-28 S, 3¼-INCH (LOWER LAYER)
- (AG01) BASE AGGREGATE DENSE ¾-INCH
- (PV05) ASPHALTIC FLUME
- (CG18) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- (DR03) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- (DR04) AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH, 6-INCH
- (BG15) MGS GUARDRAIL 3
- (BG17) MGS GUARDRAIL TERMINAL EAT
- (SW01) SAWING ASPHALT
- (TR01) RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- (PU01) PIPE UNDERDRAIN 6-INCH
- (PU02) PIPE UNDERDRAIN UNPERFORATED 6-INCH

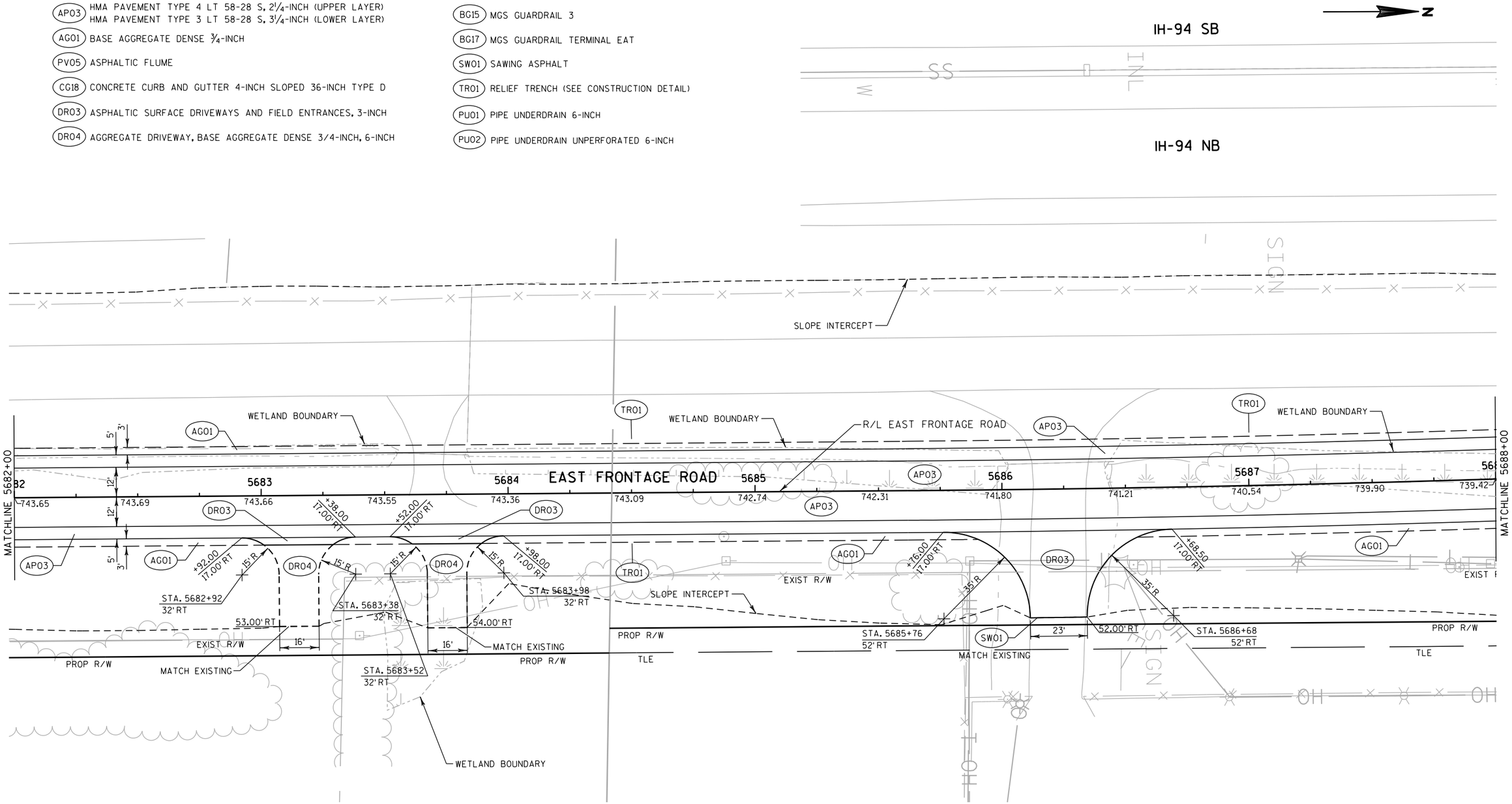


PROJECT NO: 1030-24-77	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL: EAST FRONTAGE ROAD	SHEET 33	E

FILE NAME : Z:\Racine\CADDS\12\12E\CDS\021203_pd.dgn PLOT DATE : 9/18/2017 PLOT BY : cory.ihde PLOT NAME : PLOT SCALE : 1:40

PAVEMENT DETAIL LEGEND

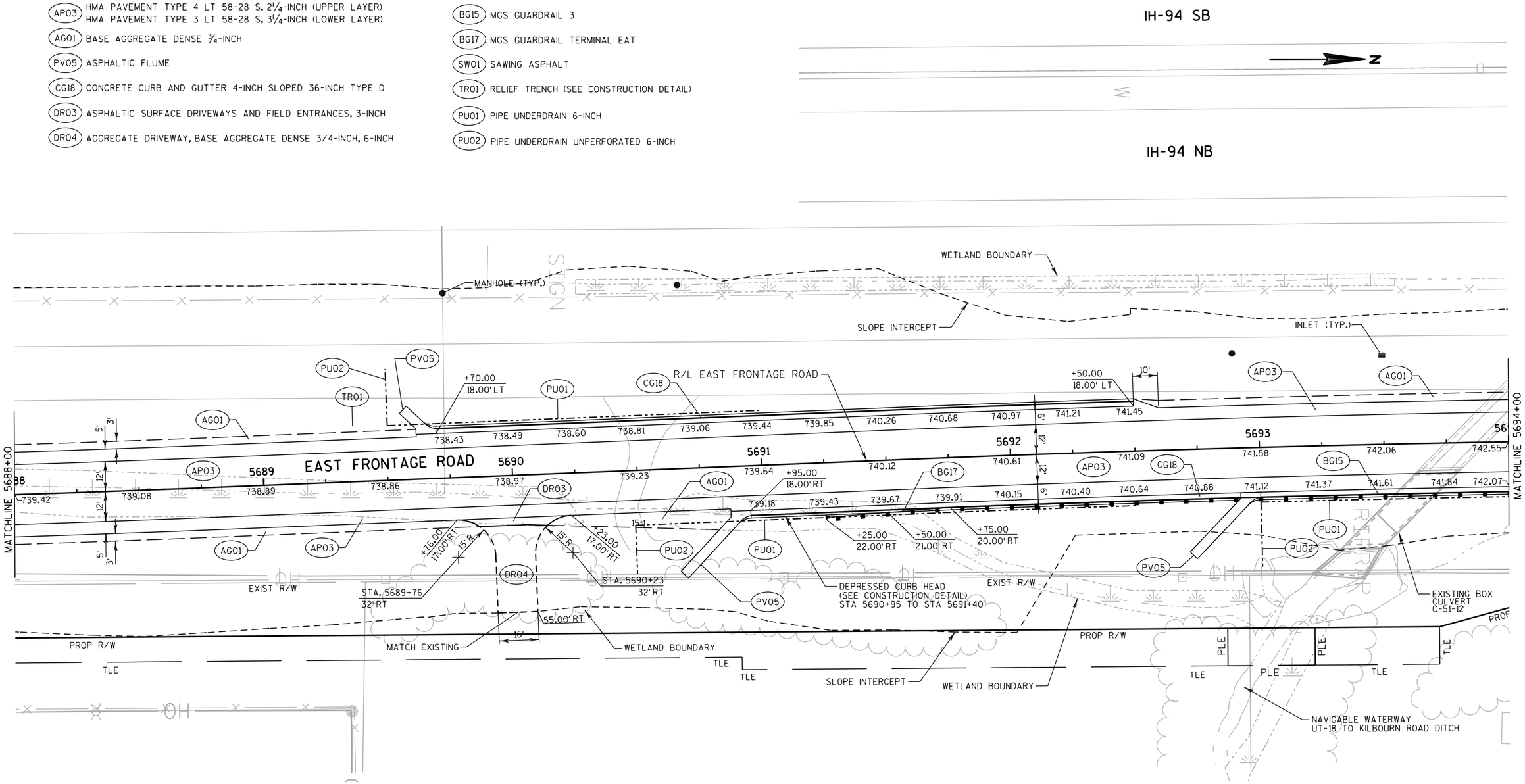
- (AP03) HMA PAVEMENT TYPE 4 LT 58-28 S, 2¼-INCH (UPPER LAYER)
  HMA PAVEMENT TYPE 3 LT 58-28 S, 3¼-INCH (LOWER LAYER)
- (AG01) BASE AGGREGATE DENSE ¾-INCH
- (PV05) ASPHALTIC FLUME
- (CG18) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- (DR03) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- (DR04) AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH, 6-INCH
- (BG15) MGS GUARDRAIL 3
- (BG17) MGS GUARDRAIL TERMINAL EAT
- (SW01) SAWING ASPHALT
- (TR01) RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- (PU01) PIPE UNDERDRAIN 6-INCH
- (PU02) PIPE UNDERDRAIN UNPERFORATED 6-INCH



PROJECT NO: 1030-24-77	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL: EAST FRONTAGE ROAD	SHEET 34	E

PAVEMENT DETAIL LEGEND

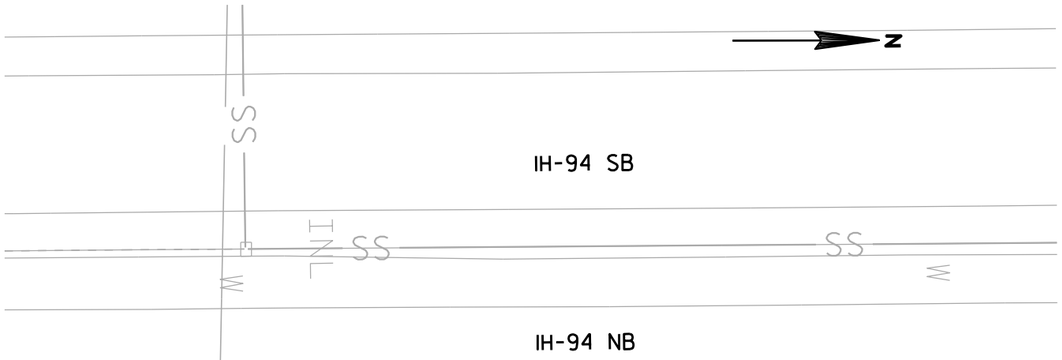
- (APO3) HMA PAVEMENT TYPE 4 LT 58-28 S, 2¼-INCH (UPPER LAYER)
  HMA PAVEMENT TYPE 3 LT 58-28 S, 3¼-INCH (LOWER LAYER)
- (AGO1) BASE AGGREGATE DENSE ¾-INCH
- (PVO5) ASPHALTIC FLUME
- (CG18) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- (DRO3) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- (DRO4) AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH, 6-INCH
- (BG15) MGS GUARDRAIL 3
- (BG17) MGS GUARDRAIL TERMINAL EAT
- (SWO1) SAWING ASPHALT
- (TRO1) RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- (PUO1) PIPE UNDERDRAIN 6-INCH
- (PUO2) PIPE UNDERDRAIN UNPERFORATED 6-INCH

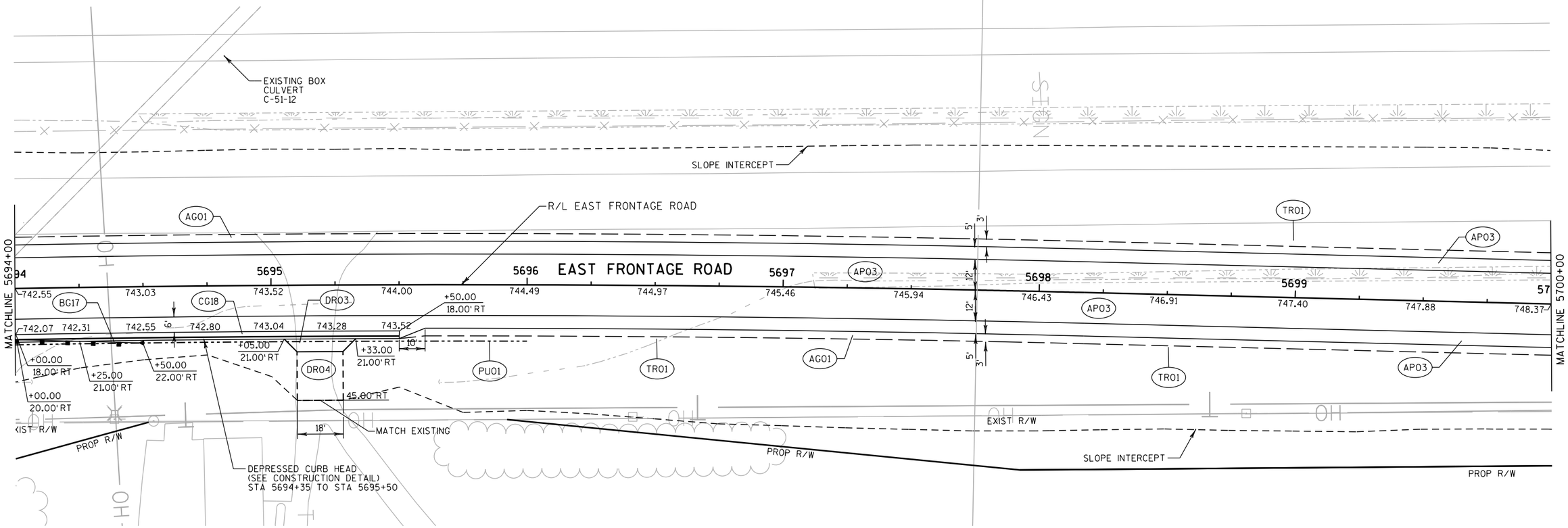


PROJECT NO: 1030-24-77	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL: EAST FRONTAGE ROAD	SHEET 35	E

PAVEMENT DETAIL LEGEND

- (APO3) HMA PAVEMENT TYPE 4 LT 58-28 S, 2¼-INCH (UPPER LAYER)
  HMA PAVEMENT TYPE 3 LT 58-28 S, 3¼-INCH (LOWER LAYER)
- (AGO1) BASE AGGREGATE DENSE ¾-INCH
- (PVO5) ASPHALTIC FLUME
- (CG18) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- (DRO3) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- (DRO4) AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH, 6-INCH
- (BG15) MGS GUARDRAIL 3
- (BG17) MGS GUARDRAIL TERMINAL EAT
- (SWO1) SAWING ASPHALT
- (TRO1) RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- (PUO1) PIPE UNDERDRAIN 6-INCH
- (PUO2) PIPE UNDERDRAIN UNPERFORATED 6-INCH





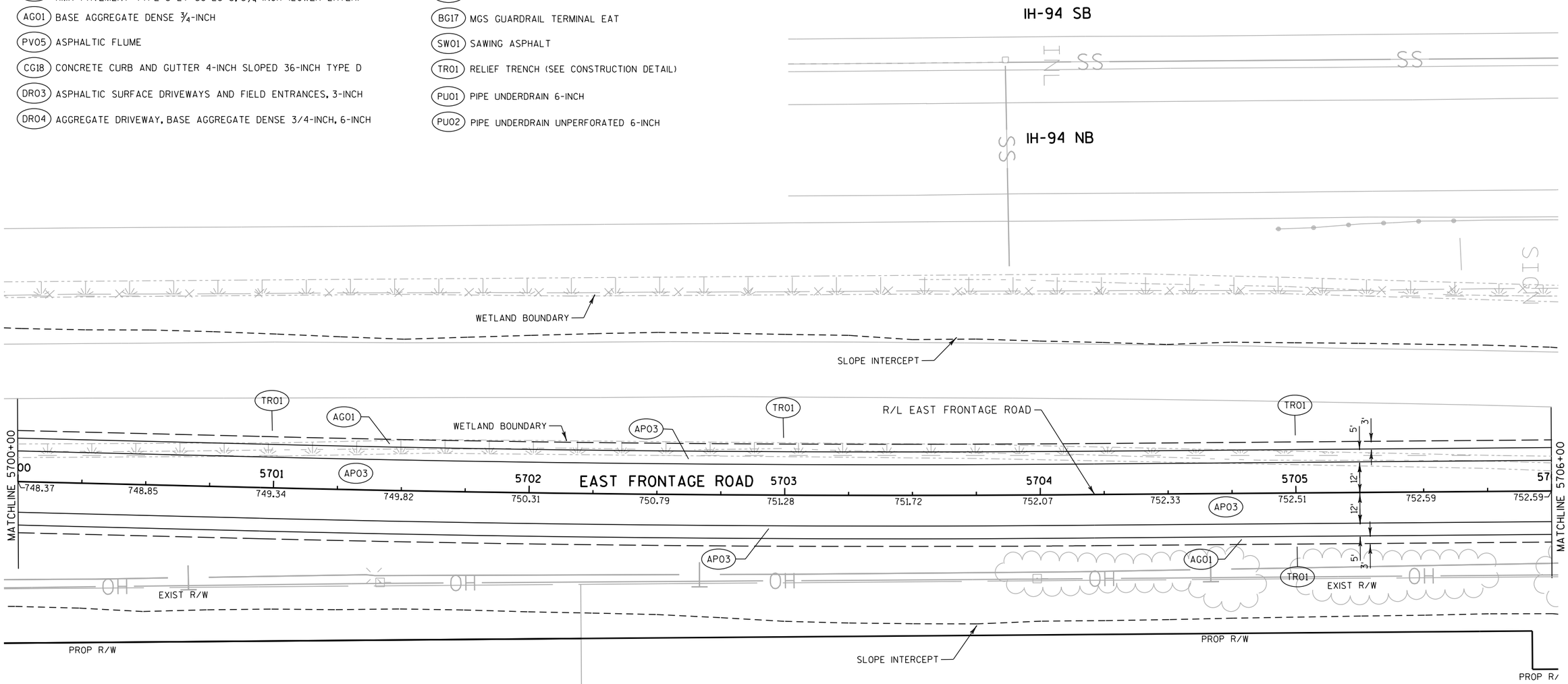
PROJECT NO: 1030-24-77	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL: EAST FRONTAGE ROAD	SHEET	E

FILE NAME : Z:\Racine\CADDS\12\12E\CDS\021206_pd.dgn PLOT DATE : 9/18/2017 PLOT BY : cory.ihde PLOT NAME : PLOT SCALE : 1:40

2

PAVEMENT DETAIL LEGEND

- (AP03) HMA PAVEMENT TYPE 4 LT 58-28 S, 2¼-INCH (UPPER LAYER)
  HMA PAVEMENT TYPE 3 LT 58-28 S, 3¼-INCH (LOWER LAYER)
- (AG01) BASE AGGREGATE DENSE ¾-INCH
- (PV05) ASPHALTIC FLUME
- (CG18) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- (DR03) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- (DR04) AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH, 6-INCH
- (BG15) MGS GUARDRAIL 3
- (BG17) MGS GUARDRAIL TERMINAL EAT
- (SW01) SAWING ASPHALT
- (TR01) RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- (PU01) PIPE UNDERDRAIN 6-INCH
- (PU02) PIPE UNDERDRAIN UNPERFORATED 6-INCH



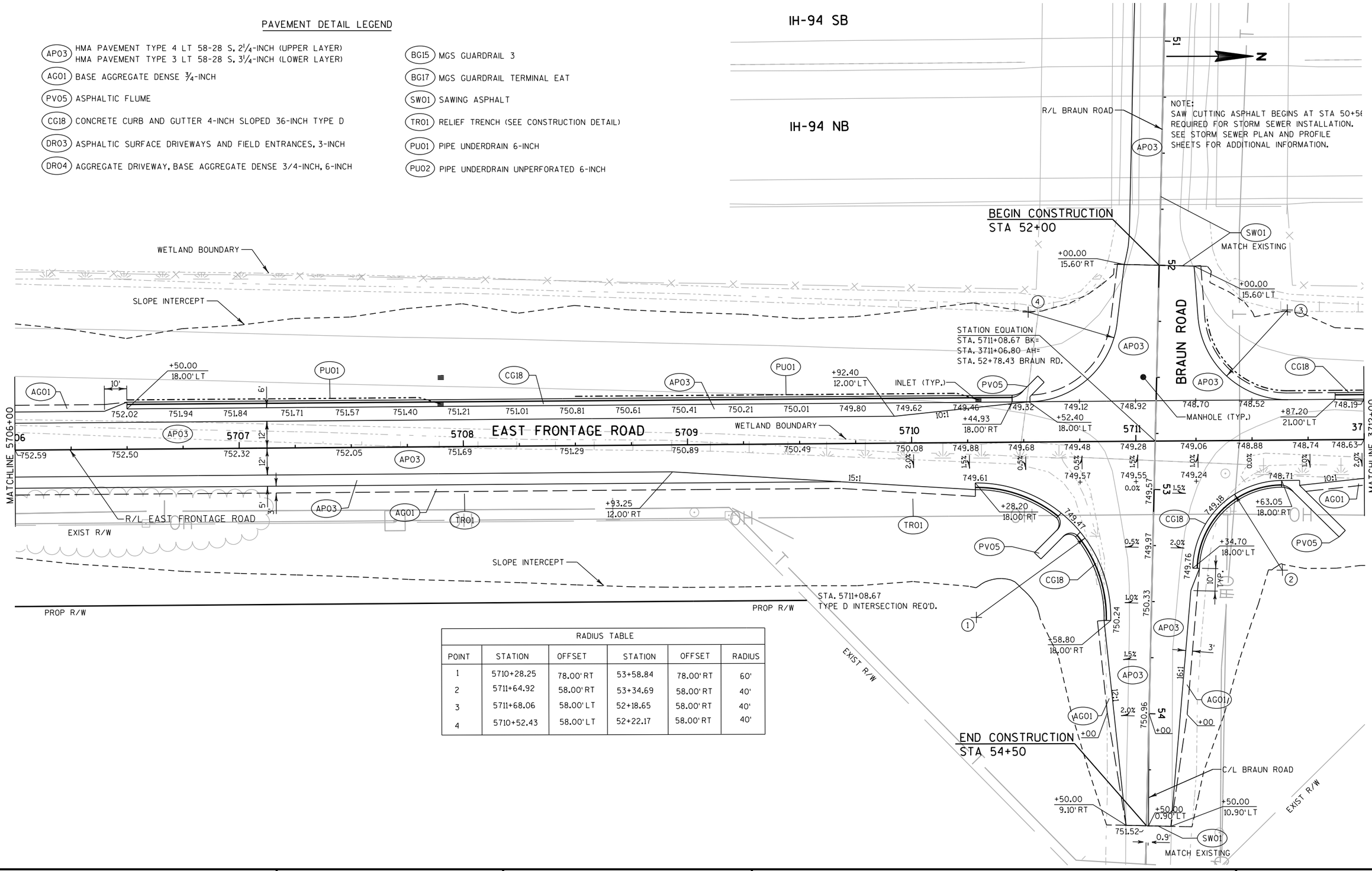
PROJECT NO: 1030-24-77	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL: EAST FRONTAGE ROAD	SHEET 37	E

FILE NAME : Z:\Racine\CADDS\12\12E\CDS\021207_pd.dgn PLOT DATE : 9/18/2017 PLOT BY : cory.ihde PLOT NAME : PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

PAVEMENT DETAIL LEGEND

- (AP03) HMA PAVEMENT TYPE 4 LT 58-28 S, 2¼-INCH (UPPER LAYER) HMA PAVEMENT TYPE 3 LT 58-28 S, 3¼-INCH (LOWER LAYER)
- (AG01) BASE AGGREGATE DENSE ¾-INCH
- (PV05) ASPHALTIC FLUME
- (CG18) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- (DR03) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- (DR04) AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH, 6-INCH
- (BG15) MGS GUARDRAIL 3
- (BG17) MGS GUARDRAIL TERMINAL EAT
- (SW01) SAWING ASPHALT
- (TR01) RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- (PU01) PIPE UNDERDRAIN 6-INCH
- (PU02) PIPE UNDERDRAIN UNPERFORATED 6-INCH

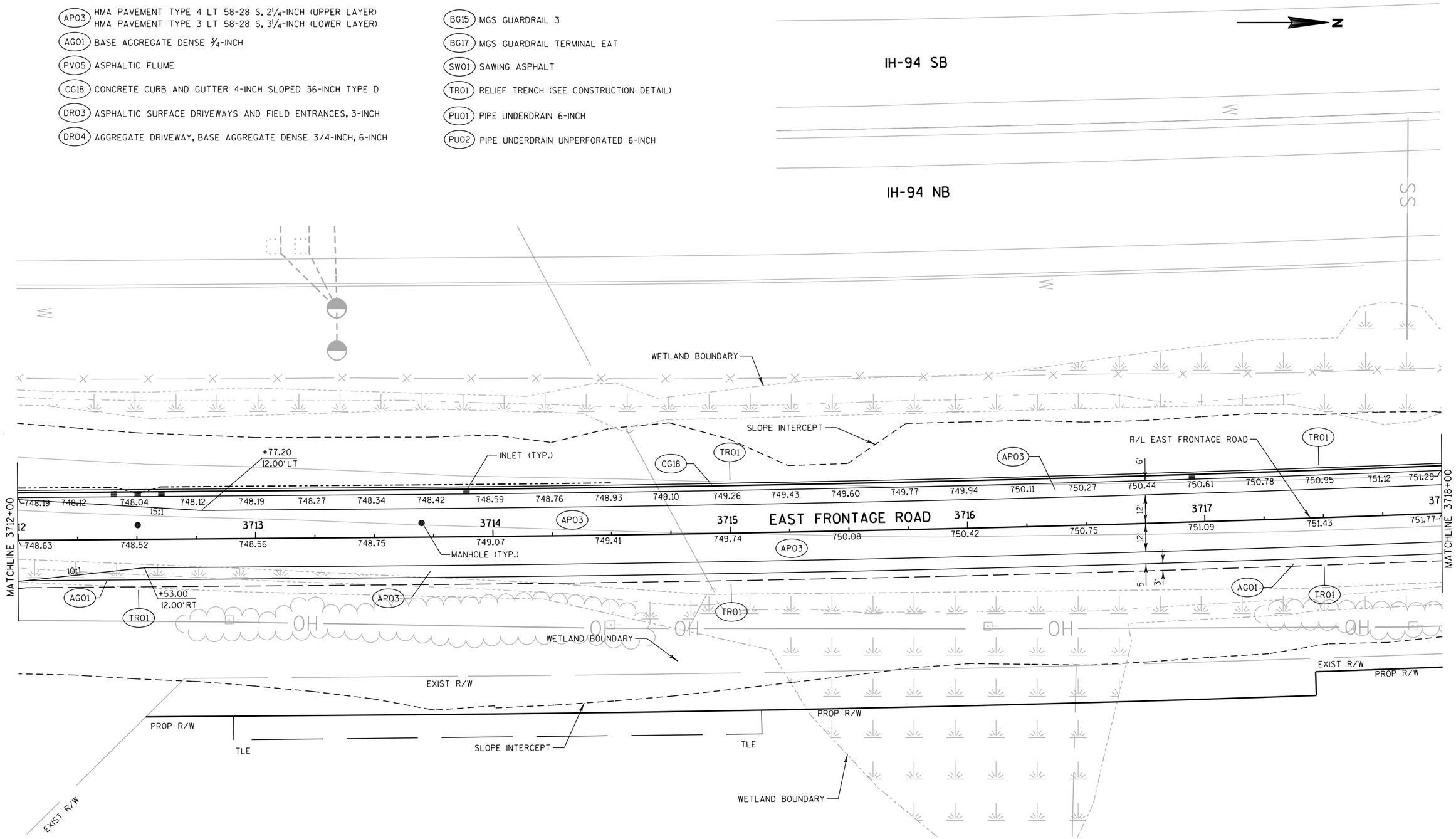


RADIUS TABLE					
POINT	STATION	OFFSET	STATION	OFFSET	RADIUS
1	5710+28.25	78.00' RT	53+58.84	78.00' RT	60'
2	5711+64.92	58.00' RT	53+34.69	58.00' RT	40'
3	5711+68.06	58.00' LT	52+18.65	58.00' RT	40'
4	5710+52.43	58.00' LT	52+22.17	58.00' RT	40'

PROJECT NO: 1030-24-77	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL: EAST FRONTAGE ROAD	SHEET 38	E

PAVEMENT DETAIL LEGEND

- (AP03) HMA PAVEMENT TYPE 4 LT 58-28 S, 2¼-INCH (UPPER LAYER)
  HMA PAVEMENT TYPE 3 LT 58-28 S, 3¼-INCH (LOWER LAYER)
- (AG01) BASE AGGREGATE DENSE ¾-INCH
- (PV05) ASPHALTIC FLUME
- (CG18) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- (DR03) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- (DR04) AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH, 6-INCH
- (BG15) MGS GUARDRAIL 3
- (BG17) MGS GUARDRAIL TERMINAL EAT
- (SW01) SAWING ASPHALT
- (TR01) RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- (PU01) PIPE UNDERDRAIN 6-INCH
- (PU02) PIPE UNDERDRAIN UNPERFORATED 6-INCH

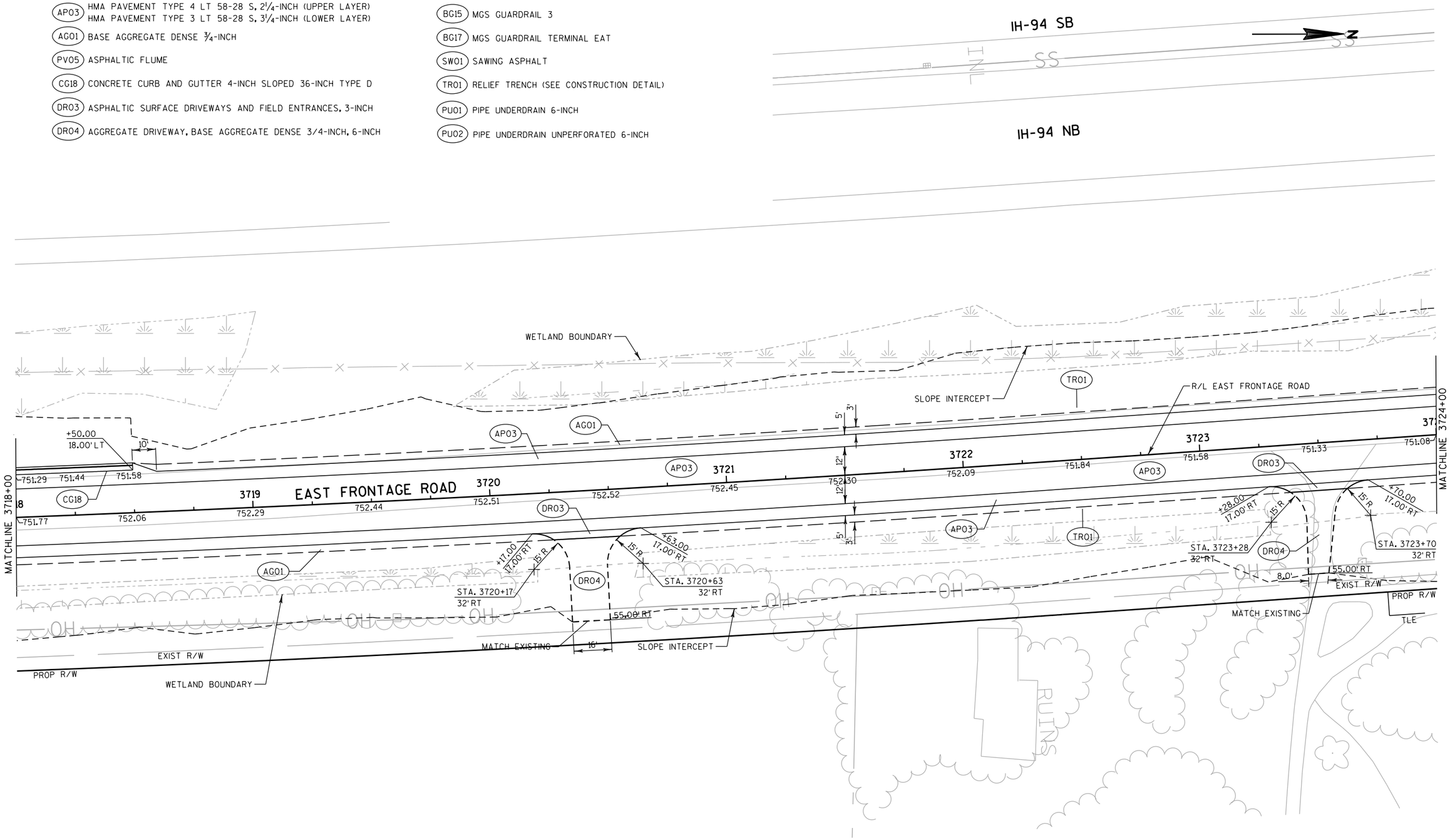


PROJECT NO: 1030-24-77	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL: EAST FRONTAGE ROAD	SHEET 39	E

FILE NAME : Z:\Racine\CADDS\12\12E\CDS\021209_pd.dgn PLOT DATE : 9/18/2017 PLOT BY : cory.ihde PLOT NAME : PLOT SCALE : 1:40

PAVEMENT DETAIL LEGEND

- (APO3) HMA PAVEMENT TYPE 4 LT 58-28 S, 2¼-INCH (UPPER LAYER)
  HMA PAVEMENT TYPE 3 LT 58-28 S, 3¼-INCH (LOWER LAYER)
- (AG01) BASE AGGREGATE DENSE ¾-INCH
- (PV05) ASPHALTIC FLUME
- (CG18) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- (DR03) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- (DR04) AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH, 6-INCH
- (BG15) MGS GUARDRAIL 3
- (BG17) MGS GUARDRAIL TERMINAL EAT
- (SW01) SAWING ASPHALT
- (TR01) RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- (PU01) PIPE UNDERDRAIN 6-INCH
- (PU02) PIPE UNDERDRAIN UNPERFORATED 6-INCH



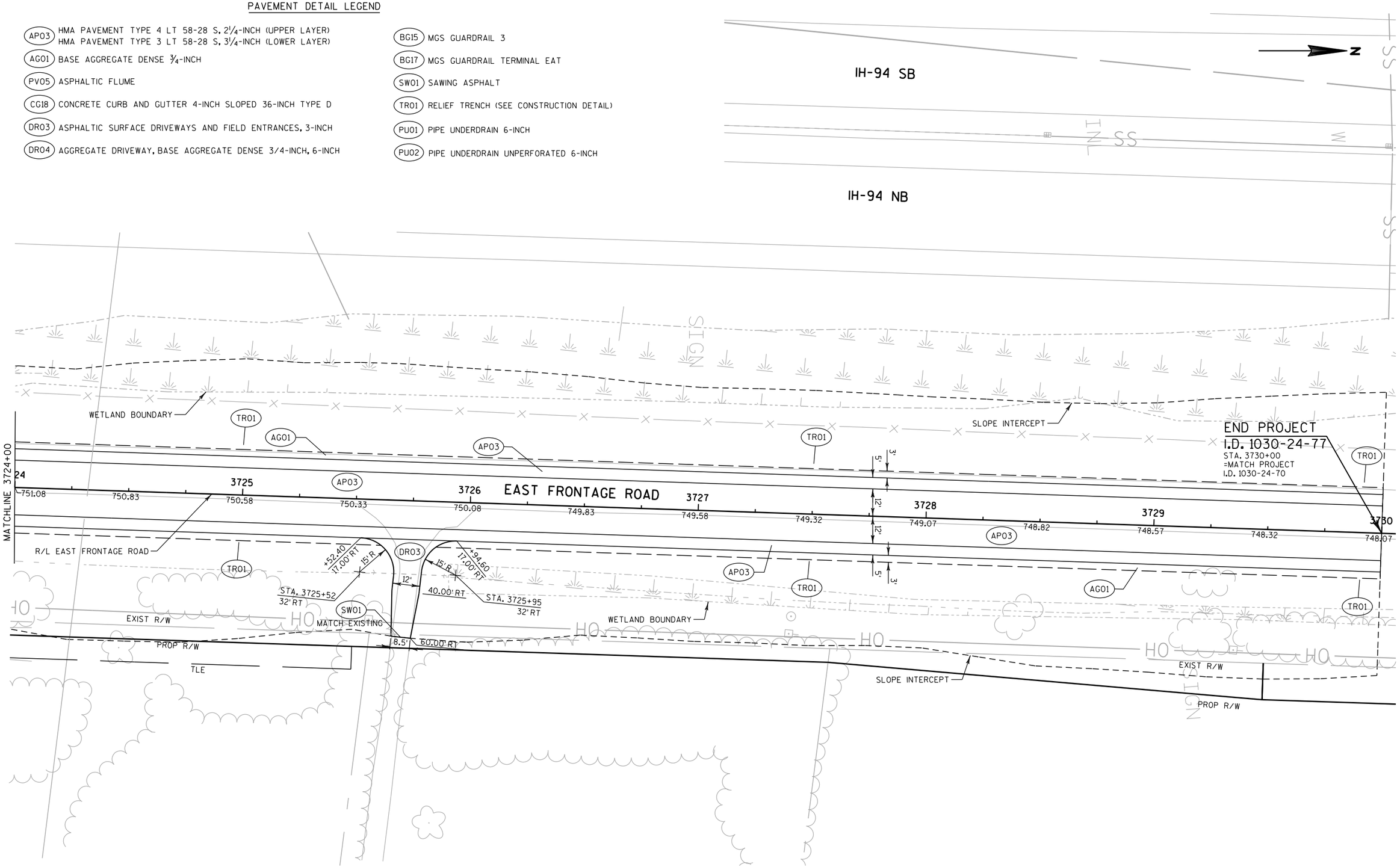
PROJECT NO: 1030-24-77	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL: EAST FRONTAGE ROAD	SHEET 40	E

FILE NAME : Z:\Racine\CADDS\12\12E\CDS\021210_pd.dgn PLOT DATE : 9/18/2017 PLOT BY : cory.ihde PLOT NAME : PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

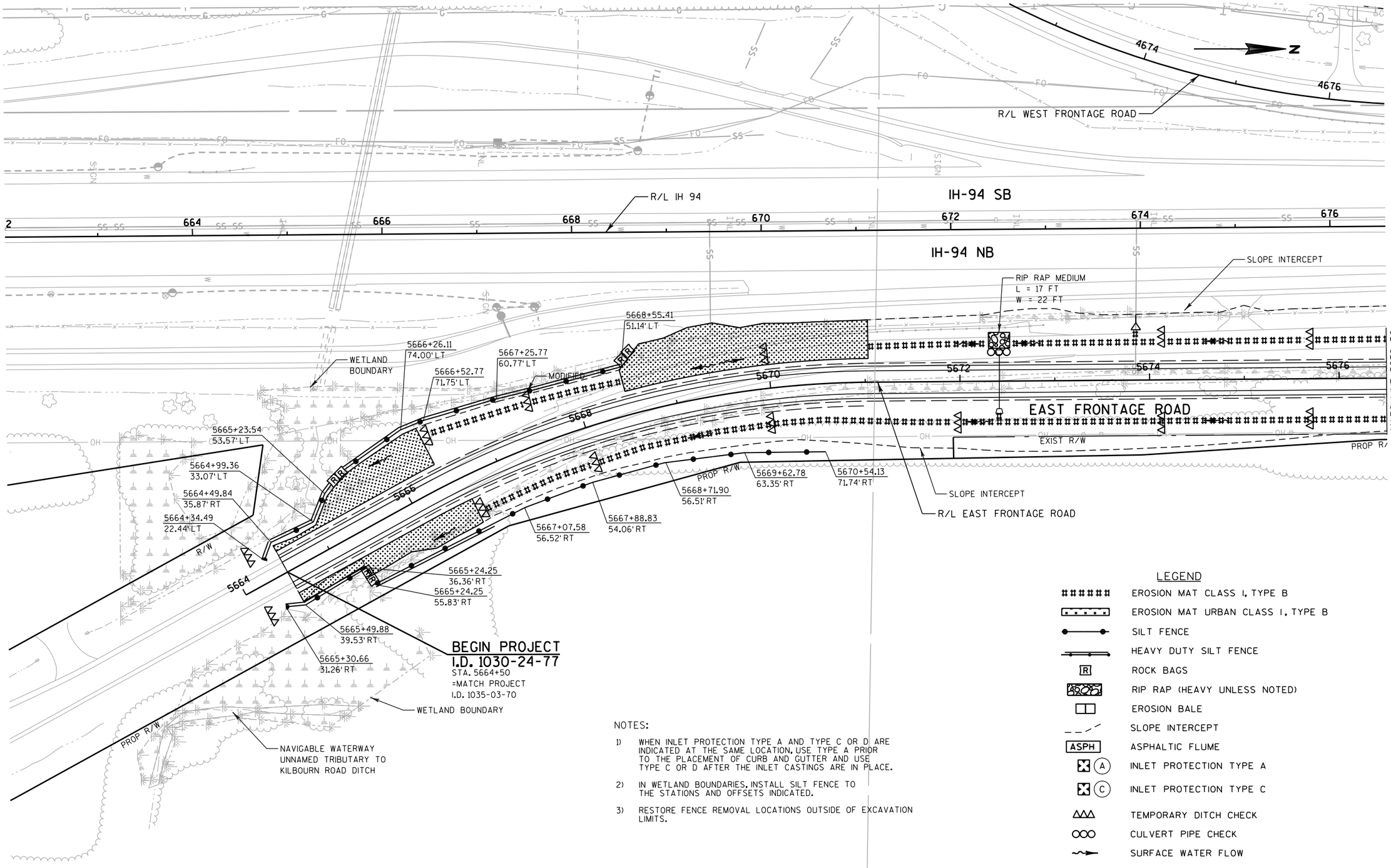
PAVEMENT DETAIL LEGEND

- (APO3) HMA PAVEMENT TYPE 4 LT 58-28 S, 2¼-INCH (UPPER LAYER)
  HMA PAVEMENT TYPE 3 LT 58-28 S, 3¼-INCH (LOWER LAYER)
- (AG01) BASE AGGREGATE DENSE ¾-INCH
- (PV05) ASPHALTIC FLUME
- (CG18) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- (DR03) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- (DR04) AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH, 6-INCH
- (BG15) MGS GUARDRAIL 3
- (BG17) MGS GUARDRAIL TERMINAL EAT
- (SW01) SAWING ASPHALT
- (TR01) RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- (PU01) PIPE UNDERDRAIN 6-INCH
- (PU02) PIPE UNDERDRAIN UNPERFORATED 6-INCH



PROJECT NO: 1030-24-77	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL: EAST FRONTAGE ROAD	SHEET 41	E

FILE NAME : Z:\Racine\CADDS\12\12E\CDS\021211_pd.dgn PLOT DATE : 9/18/2017 PLOT BY : cory.ihde PLOT NAME : PLOT SCALE : 1:40



NOTES:

1) WHEN INLET PROTECTION TYPE A AND TYPE C OR D ARE INDICATED AT THE SAME LOCATION, USE TYPE A PRIOR TO THE PLACEMENT OF CURB AND GUTTER AND USE TYPE C OR D AFTER THE INLET CASTINGS ARE IN PLACE.

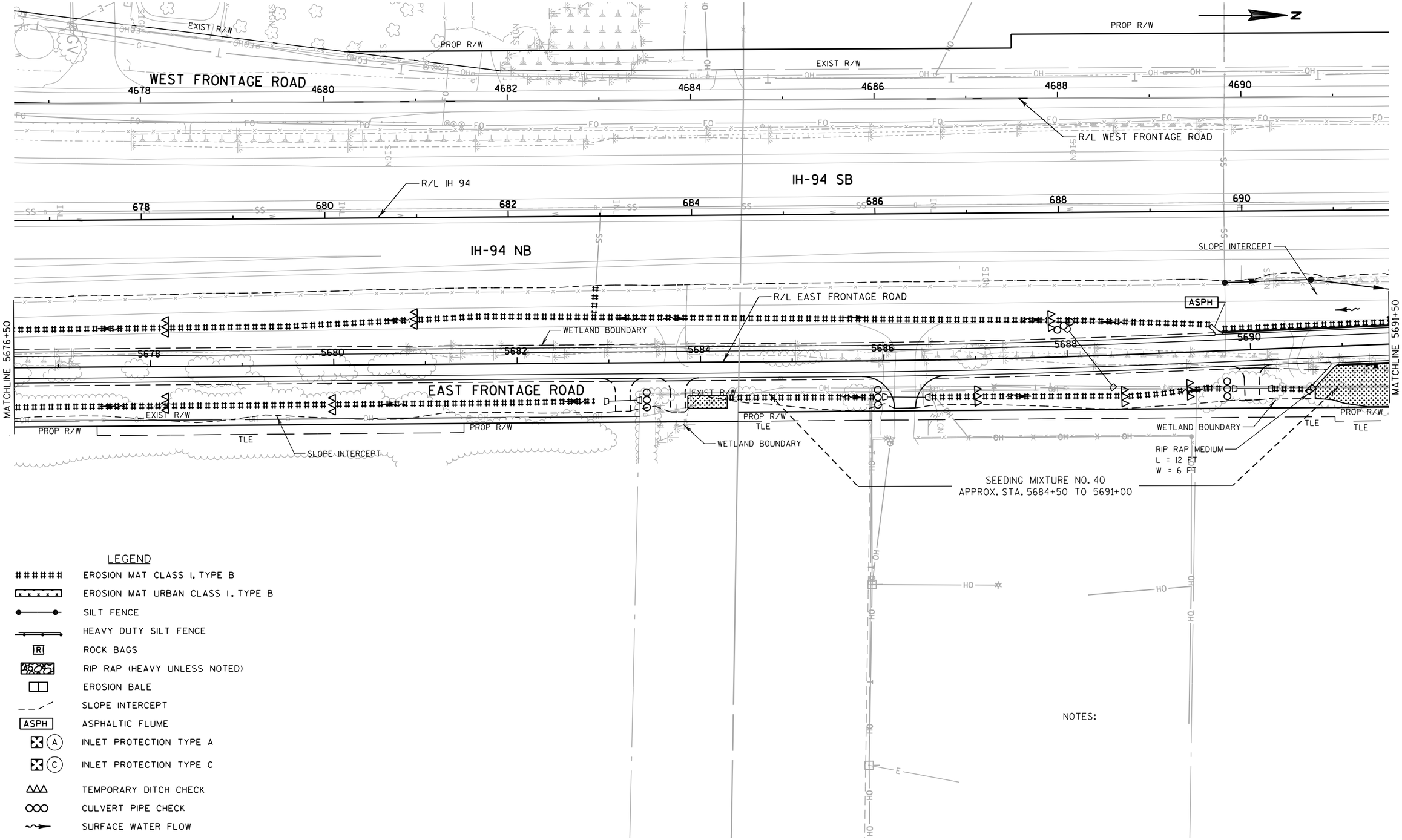
2) IN WETLAND BOUNDARIES, INSTALL SILT FENCE TO THE STATIONS AND OFFSETS INDICATED.

3) RESTORE FENCE REMOVAL LOCATIONS OUTSIDE OF EXCAVATION LIMITS.

LEGEND

- EROSION MAT CLASS I, TYPE B
- EROSION MAT URBAN CLASS I, TYPE B
- SILT FENCE
- HEAVY DUTY SILT FENCE
- ROCK BAGS
- RIP RAP (HEAVY UNLESS NOTED)
- EROSION BALE
- SLOPE INTERCEPT
- ASPHALTIC FLUME
- INLET PROTECTION TYPE A
- INLET PROTECTION TYPE C
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW

PROJECT NO: 1030-24-77	HWY: IH 94	COUNTY: RACINE	EROSION CONTROL: EAST FRONTAGE ROAD	SHEET 42	E



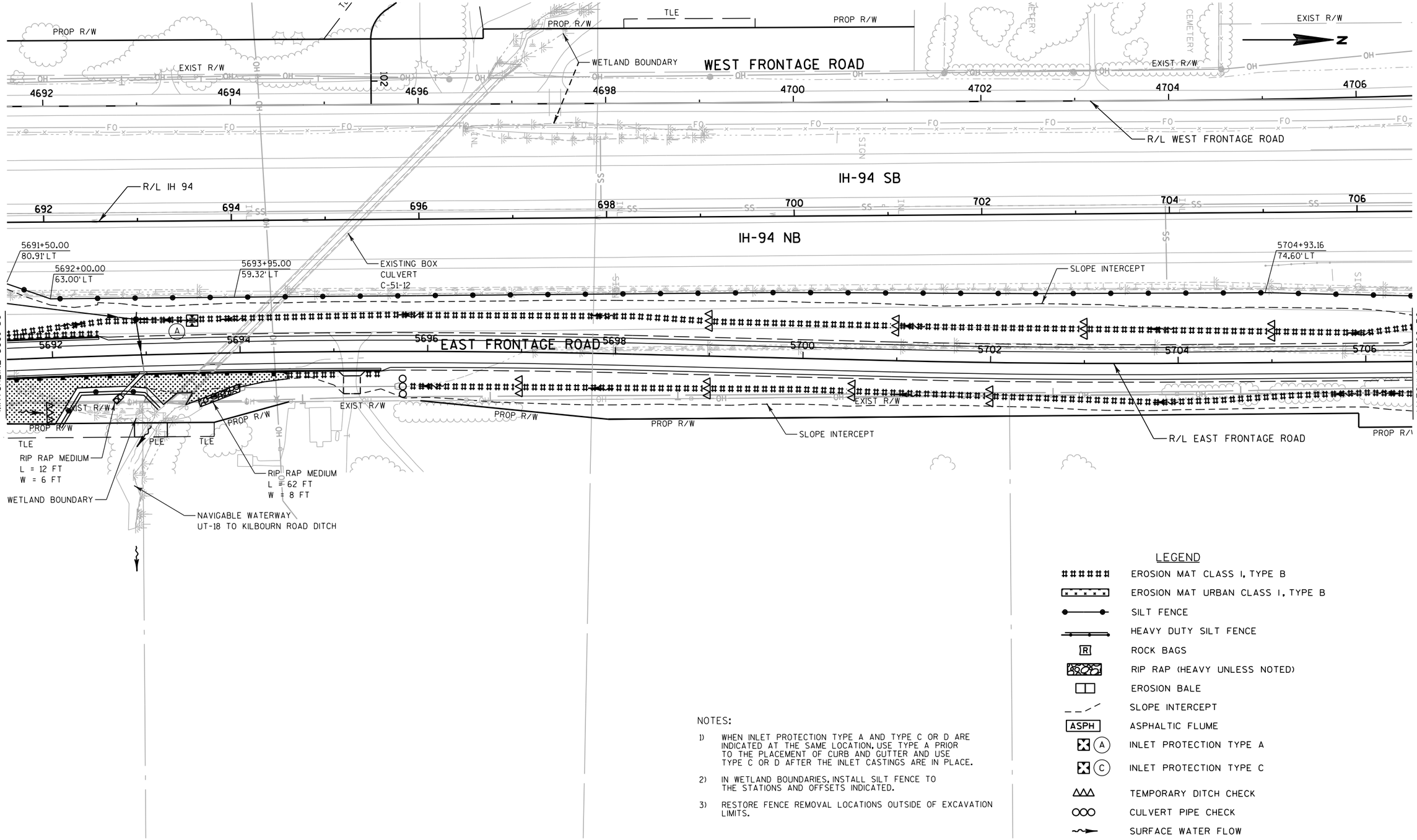
LEGEND

- EROSION MAT CLASS I, TYPE B
- EROSION MAT URBAN CLASS I, TYPE B
- SILT FENCE
- HEAVY DUTY SILT FENCE
- ROCK BAGS
- RIP RAP (HEAVY UNLESS NOTED)
- EROSION BALE
- SLOPE INTERCEPT
- ASPHALTIC FLUME
- INLET PROTECTION TYPE A
- INLET PROTECTION TYPE C
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW

NOTES:

PROJECT NO: 1030-24-77	HWY: IH 94	COUNTY: RACINE	EROSION CONTROL: EAST FRONTAGE ROAD	SHEET 43	E

FILE NAME : Z:\Racine\CADDS\12\12E\CDS\022002_EC.dgn PLOT DATE : 9/18/2017 PLOT BY : cory.ihde PLOT NAME : PLOT SCALE : 1:100



NOTES:

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2) IN WETLAND BOUNDARIES, INSTALL SILT FENCE TO THE STATIONS AND OFFSETS INDICATED.

3) RESTORE FENCE REMOVAL LOCATIONS OUTSIDE OF EXCAVATION LIMITS.

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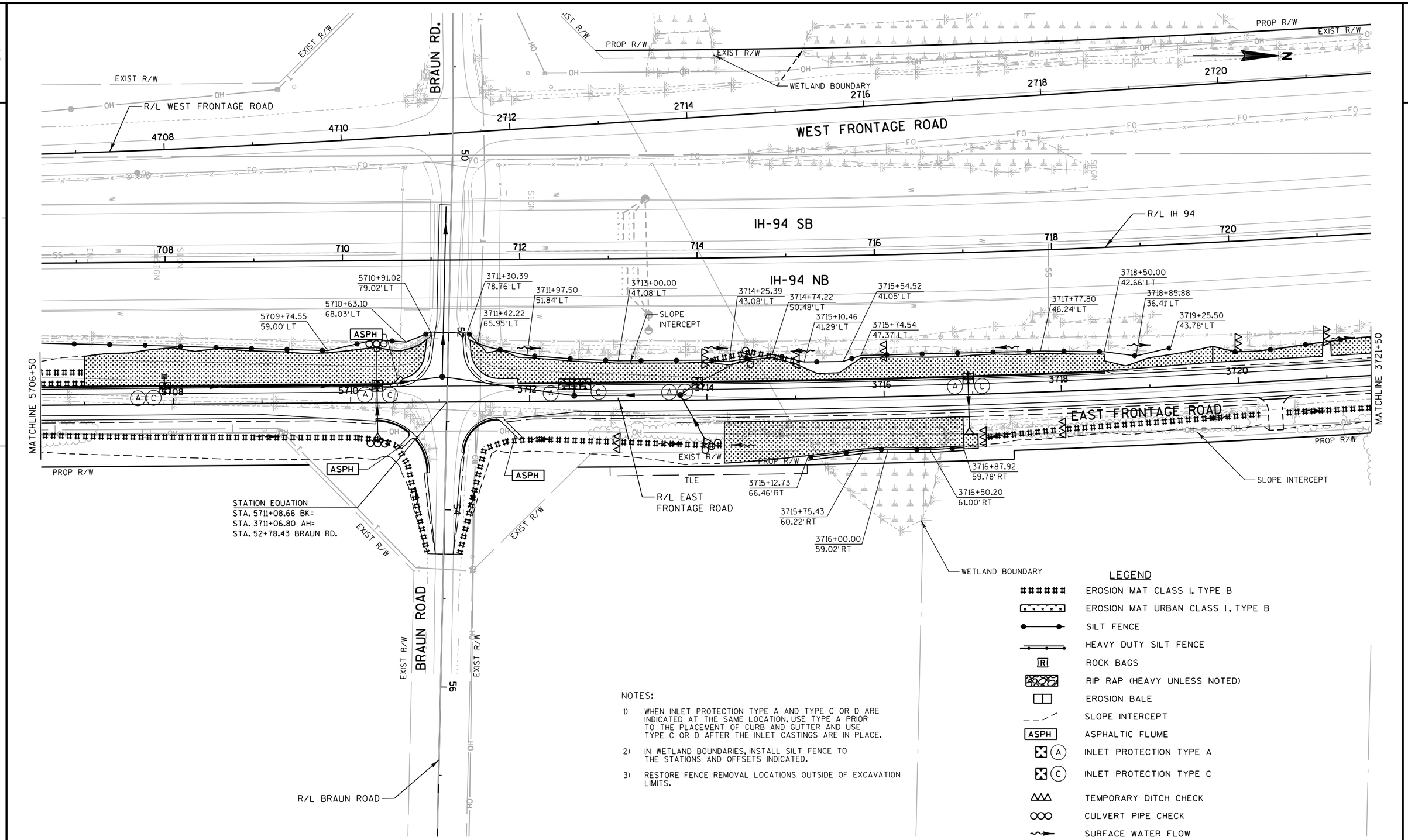
- HEAVY DUTY SILT FENCE
- ROCK BAGS
- RIP RAP (HEAVY UNLESS NOTED)
- EROSION BALE
- SLOPE INTERCEPT
- ASPHALTIC FLUME
- INLET PROTECTION TYPE A
- INLET PROTECTION TYPE C
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW

PROJECT NO: 1030-24-77	HWY: IH 94	COUNTY: RACINE	EROSION CONTROL: EAST FRONTAGE ROAD	SHEET 44	E



NOTES:

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LEGEND

- EROSION MAT CLASS I, TYPE B
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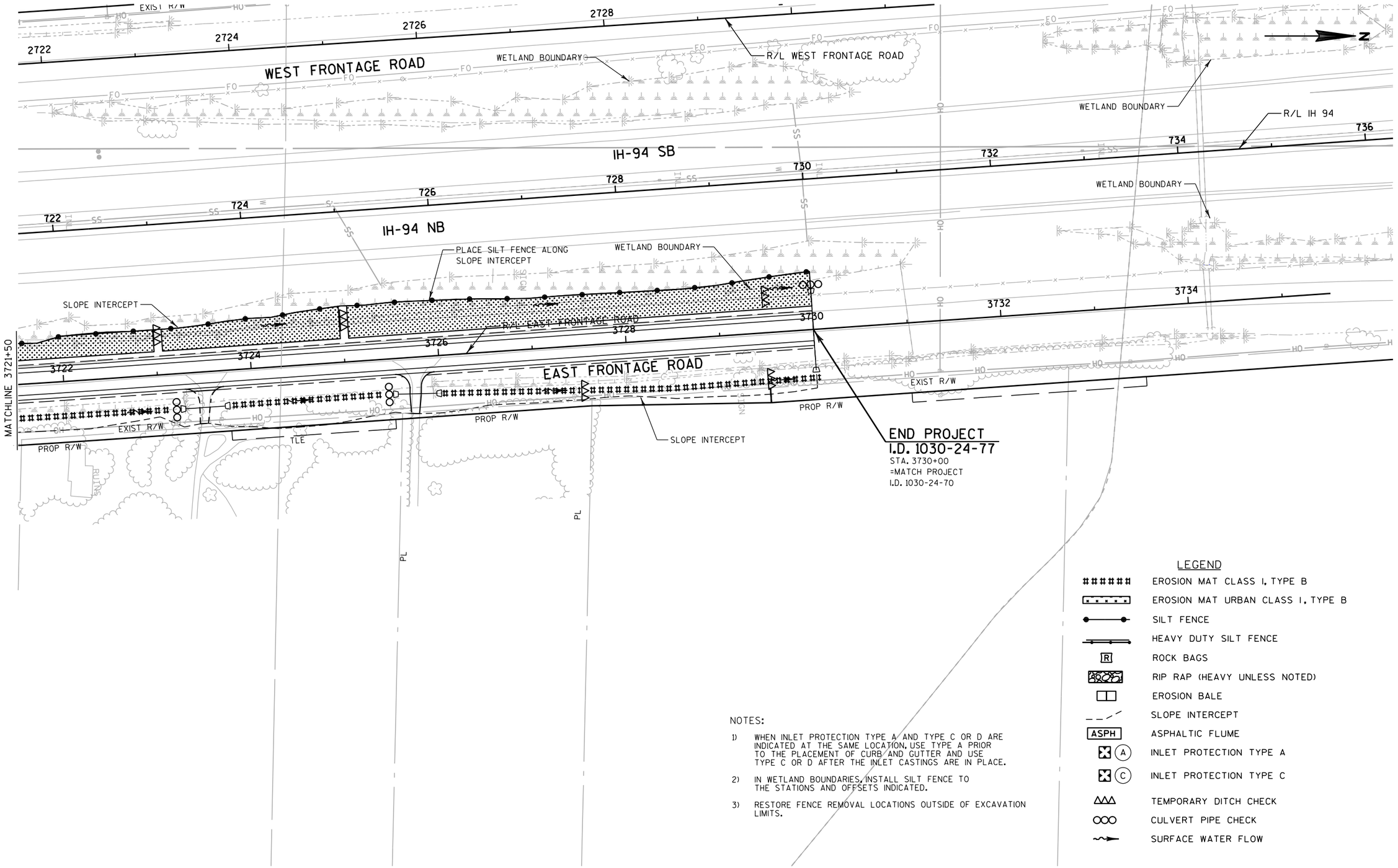
- HEAVY DUTY SILT FENCE
- ROCK BAGS
- RIP RAP (HEAVY UNLESS NOTED)
- EROSION BALE
- SLOPE INTERCEPT
- ASPHALTIC FLUME
- INLET PROTECTION TYPE A
- INLET PROTECTION TYPE C
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW

PROJECT NO: 1030-24-77	HWY: IH 94	COUNTY: RACINE	EROSION CONTROL: EAST FRONTAGE ROAD	SHEET 45	E



NOTES:

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LEGEND

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- EROSION MAT URBAN CLASS I, TYPE B
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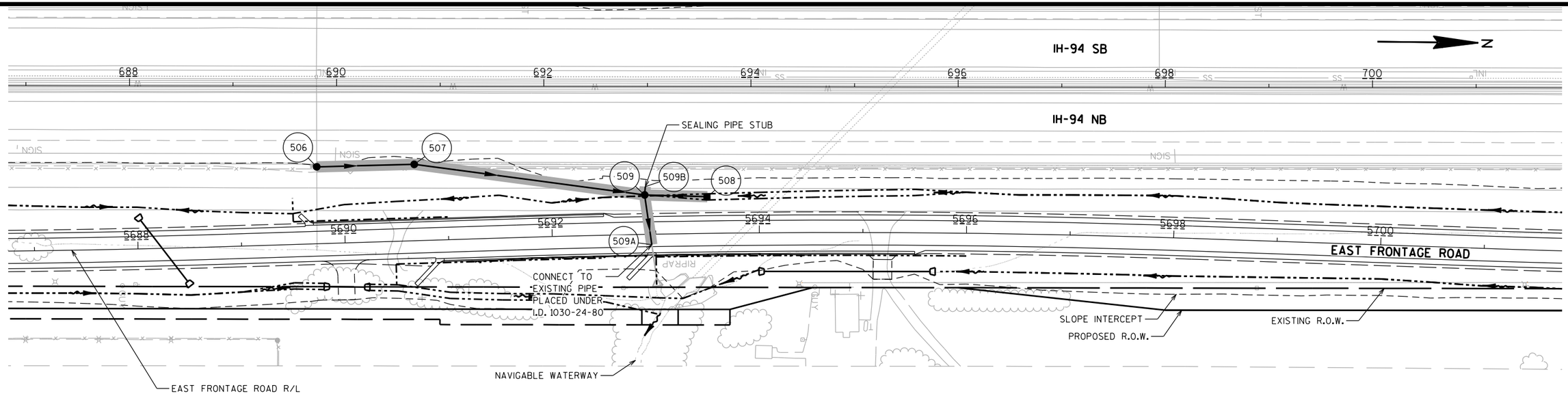
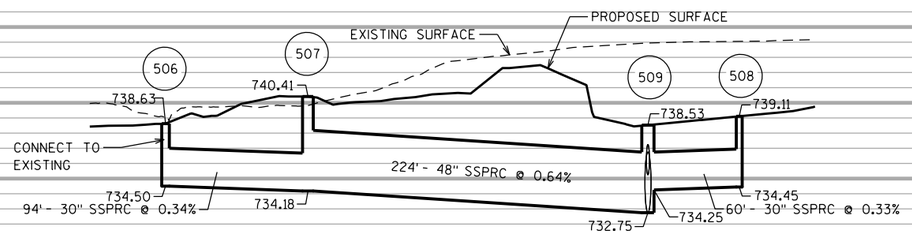
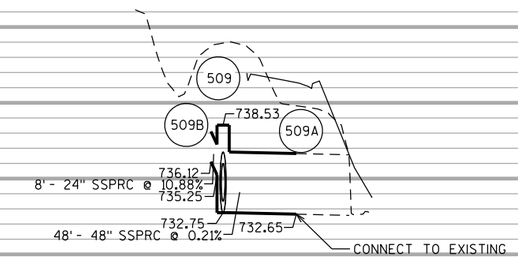
- ROCK BAGS
- RIP RAP (HEAVY UNLESS NOTED)
- EROSION BALE
- SLOPE INTERCEPT
- ASPHALTIC FLUME
- INLET PROTECTION TYPE A
- INLET PROTECTION TYPE C
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW

PROJECT NO: 1030-24-77	HWY: IH 94	COUNTY: RACINE	EROSION CONTROL: EAST FRONTAGE ROAD	SHEET 46	E

FILE NAME : Z:\Racine\CADDS\12\12E\CDS\022005_EC.dgn PLOT DATE : 9/18/2017 PLOT BY : cory.ihde PLOT NAME : PLOT SCALE : 1:100



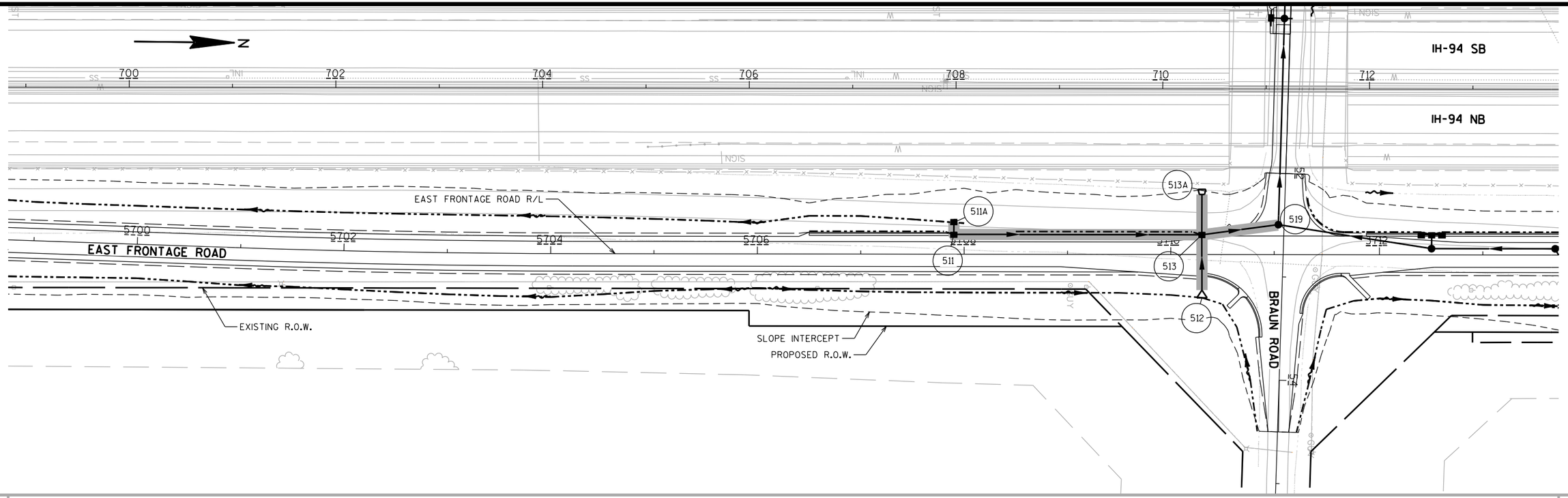


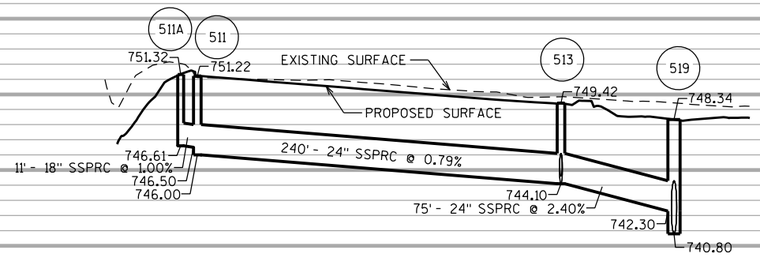


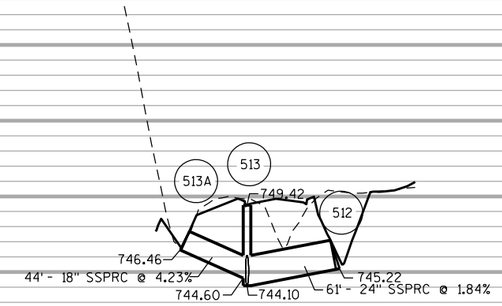
760 755 750 745 740 735 730 725

PROJECT NO: 1030-24-77	HWY: IH 94	COUNTY: RACINE	STORM SEWER: SEG. 12 EFR	SHEET 47	E

FILE NAME : S:\2015\WisDOT\I-94_N-S\CADD files\CDS\SSE_IH-94_12EFR_SS3.dgn PLOT DATE : 11/3/2016 PLOT BY : Harlan PLOT NAME : _____ PLOT SCALE : 1:100



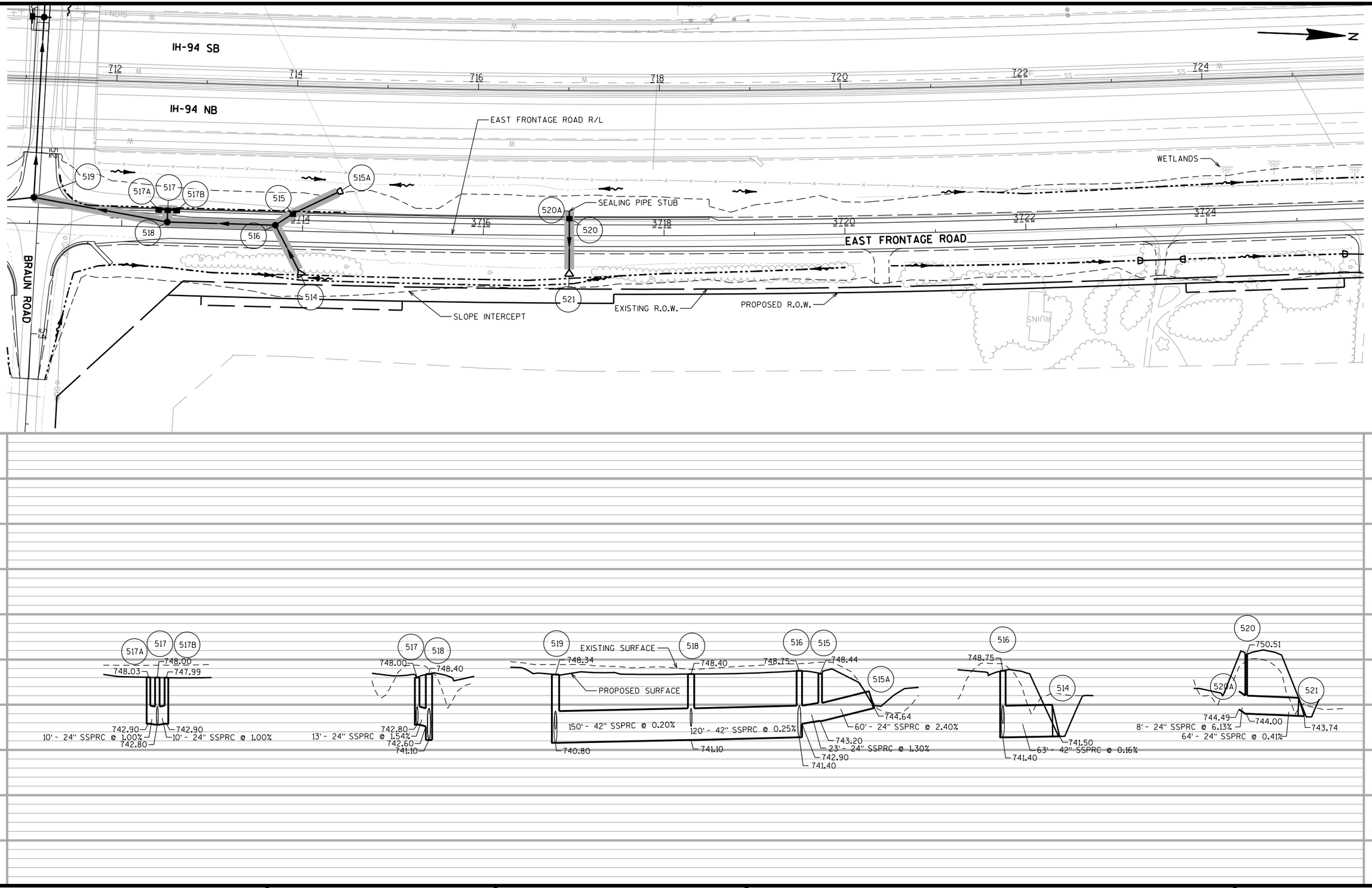




760 755 750 745 740 735 730 725

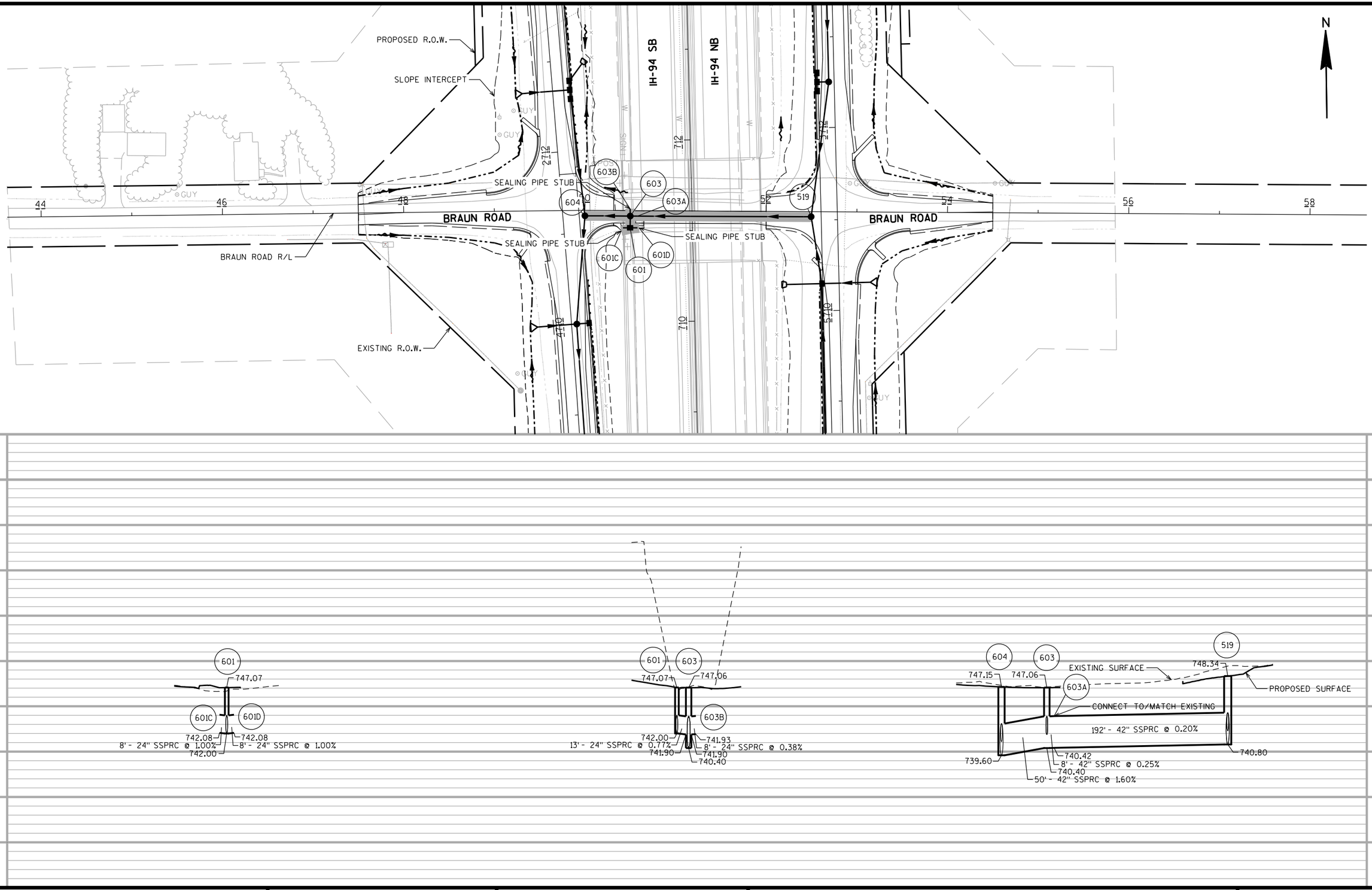
PROJECT NO: 1030-24-77	HWY: IH 94	COUNTY: RACINE	STORM SEWER: SEG. 12 EFR	SHEET 48 E

FILE NAME : S:\2015\WisDOT\I-94_N-S\CADD files\CDS\SSE_IH-94_12EFR_SS4.dgn PLOT DATE : 11/3/2016 PLOT BY : Harlan PLOT NAME : _____ PLOT SCALE : 1:100



PROJECT NO: 1030-24-77	HWY: IH 94	COUNTY: RACINE	STORM SEWER: SEG. 12 EFR	SHEET 49 E

FILE NAME : S:\2015\WisDOT\I-94_N-S\CADD files\CDS\SSE_IH-94_12EFR_SS5.dgn PLOT DATE : 11/3/2016 PLOT BY : Harlan PLOT NAME : _____ PLOT SCALE : 1:100

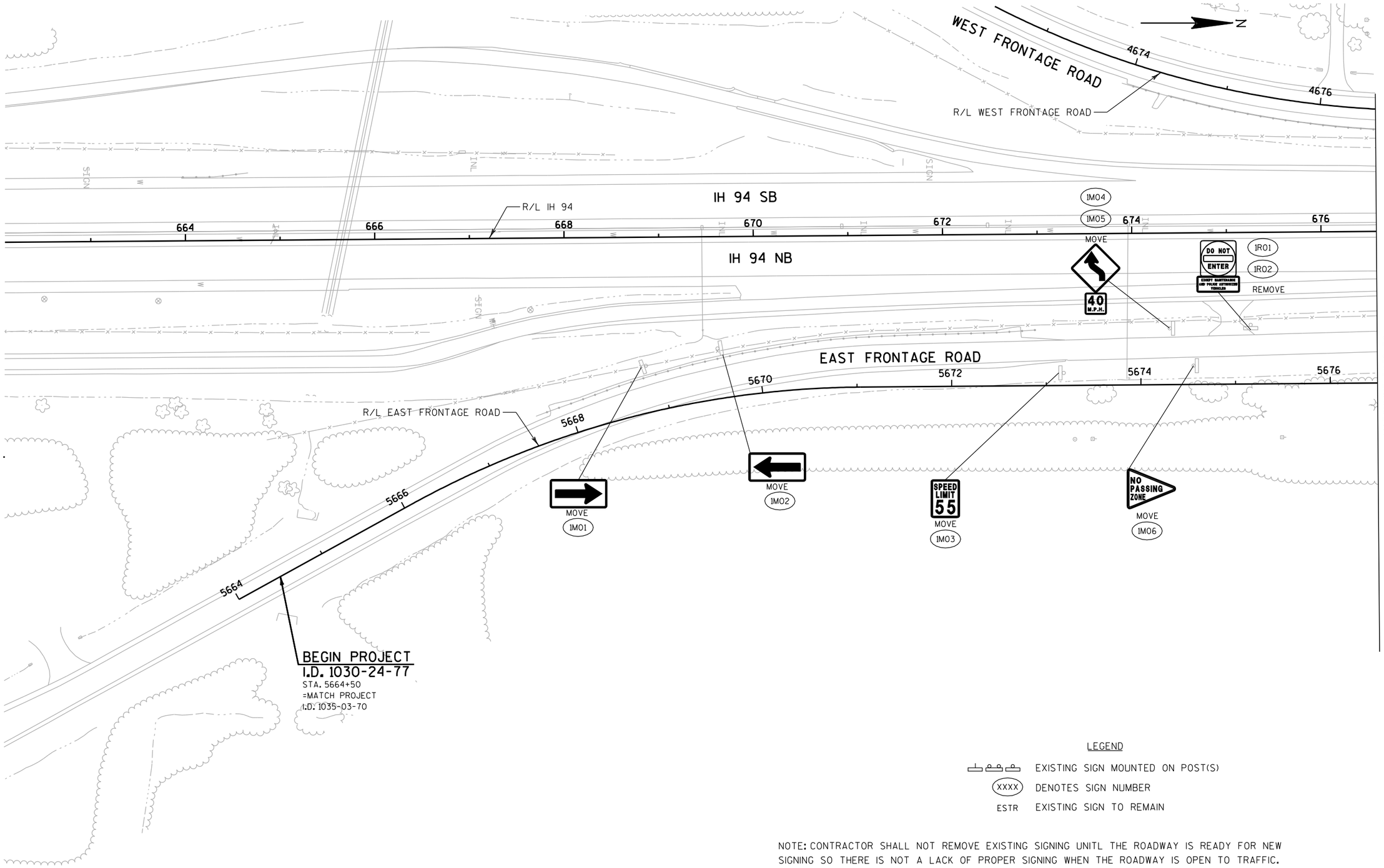


760 755 750 745 740 735 730 725

PROJECT NO: 1030-24-77	HWY: IH 94	COUNTY: RACINE	STORM SEWER: BRAUN ROAD	SHEET 50 E

FILE NAME : S:\2015\WisDOT\I-94_N-S\CADD files\CDS\SSE_IH-94_BRAUN_SS1.dgn PLOT DATE : 11/3/2016 PLOT BY : Harlan PLOT NAME : _____ PLOT SCALE : 1:100

2



LEGEND

	EXISTING SIGN MOUNTED ON POST(S)
XXXX	DENOTES SIGN NUMBER
ESTR	EXISTING SIGN TO REMAIN

NOTE: CONTRACTOR SHALL NOT REMOVE EXISTING SIGNING UNITL THE ROADWAY IS READY FOR NEW SIGNING SO THERE IS NOT A LACK OF PROPER SIGNING WHEN THE ROADWAY IS OPEN TO TRAFFIC.

PROJECT NO: 1030-24-77	HWY: IH 94	COUNTY: RACINE	EXISTING SIGNING: EAST FRONTAGE ROAD	SHEET 51	E

2

N

R/L WEST FRONTAGE ROAD

4678 4680 4682 4684 4686 4688 4690

WEST FRONTAGE ROAD

SIGN

R/L IH 94

IH 94 SB

678 680 682 684 686 688 690

IH 94 NB

EAST FRONTAGE ROAD

R/L EAST FRONTAGE ROAD

5678 5680 5682 5684 5686 5688 5690

MATCHLINE 5676+50

MATCHLINE 5691+50

REMOVE
2R01

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

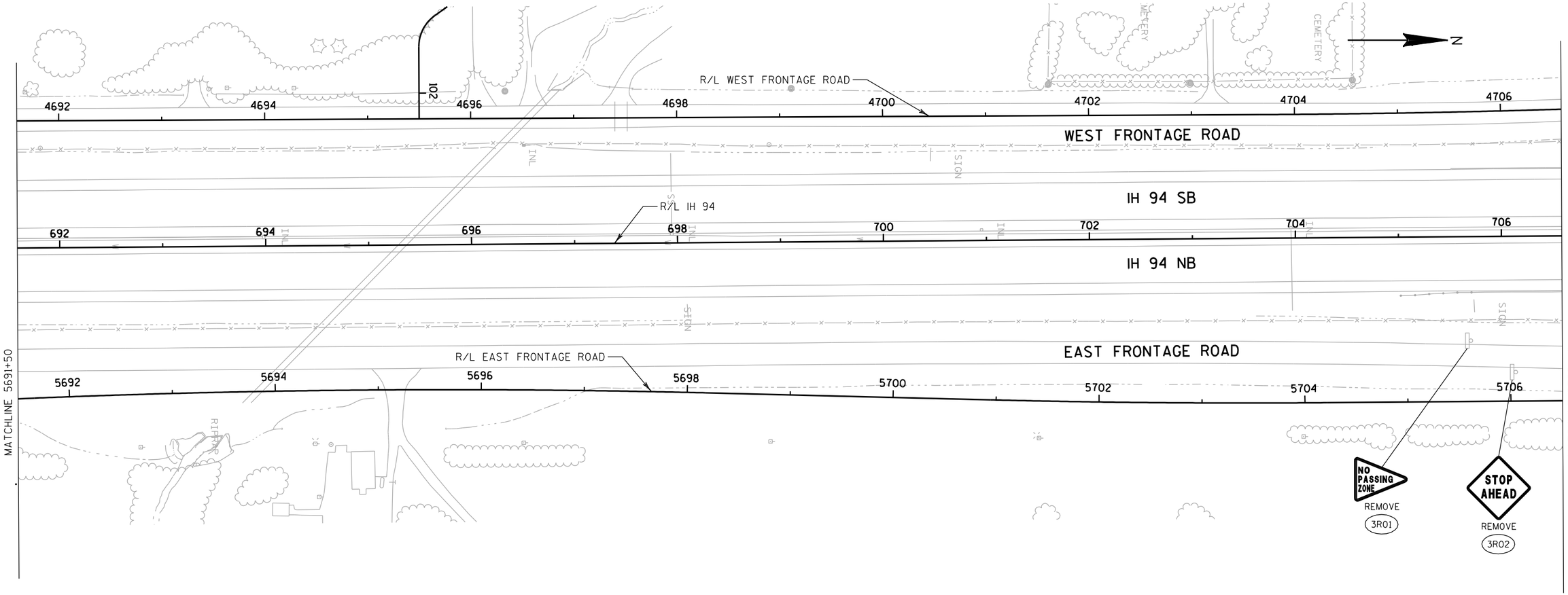
XXXX DENOTES SIGN NUMBER

ESTR EXISTING SIGN TO REMAIN

NOTE: CONTRACTOR SHALL NOT REMOVE EXISTIN
SIGNING SO THERE IS NOT A LACK OF PROPER

PROJECT NO: 1030-24-77	HWY: IH 94	COUNTY: RACINE	EXISTING SIGNING: EAST FRONTAGE ROAD	SHEET 52	E

FILE NAME : z:\racine\cadds\12\12e\cds\023202_es.dgn PLOT DATE : 1/10/2017 PLOT BY : tony.baciak PLOT NAME : PLOT SCALE : 1:100



LEGEND

	EXISTING SIGN MOUNTED ON POST(S)
XXXX	DENOTES SIGN NUMBER
ESTR	EXISTING SIGN TO REMAIN

NOTE: CONTRACTOR SHALL NOT REMOVE EXISTING SIGNING UNITL THE ROADWAY IS READY FOR NEW SIGNING SO THERE IS NOT A LACK OF PROPER SIGNING WHEN THE ROADWAY IS OPEN TO TRAFFIC.

PROJECT NO: 1030-24-77	HWY: IH 94	COUNTY: RACINE	EXISTING SIGNING: EAST FRONTAGE ROAD	SHEET 53	E

2

N

R/L WEST FRONTAGE ROAD

WEST FRONTAGE ROAD

4708 4710 2712 2714 2716 2718 2720

IH 94 SB

R/L IH 94

IH 94 NB

708 710 712 714 716 718 720

R/L EAST FRONTAGE ROAD

EAST FRONTAGE ROAD

5708 5710 3712 3714 3716 3718 3720

MATCHLINE 5706+50

MATCHLINE 3721+50

50 52 54 56 58

BRAUN ROAD

4R01 4R02 4R03 4R04 4R05 4R06 4R07 4R08

STOP ALL WAY

REMOVE

BRAUN RD

REMOVE AND SALVAGE BY LOCAL MUNICIPALITY

WEIGHT LIMIT CLASS B

MOVE

4M09

SPEED LIMIT 45

MOVE

4M10

STOP AHEAD

REMOVE

4R13

REMOVE

4R11

NO PASSING ZONE

REMOVE

4R12

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

XXXX DENOTES SIGN NUMBER

ESTR EXISTING SIGN TO REMAIN

NOTE: CONTRACTOR SHALL NOT REMOVE EXISTING SIGNING UNITL THE ROADWAY IS READY FOR NEW SIGNING SO THERE IS NOT A LACK OF PROPER SIGNING WHEN THE ROADWAY IS OPEN TO TRAFFIC.

PROJECT NO: 1030-24-77	HWY: IH 94	COUNTY: RACINE	EXISTING SIGNING: EAST FRONTAGE ROAD	SHEET 54	E

2

WEST FRONTAGE ROAD

R/L WEST FRONTAGE ROAD

IH 94 SB

IH 94 NB

R/L IH 94

EAST FRONTAGE ROAD

R/L EAST FRONTAGE ROAD

END PROJECT
I.D. 1030-24-77
STA. 3730+00
=MATCH PROJECT
I.D. 1030-24-70

MATCHLINE 372+50

NOTE: NO EXISTING SIGNING ON THIS SHEET

LEGEND

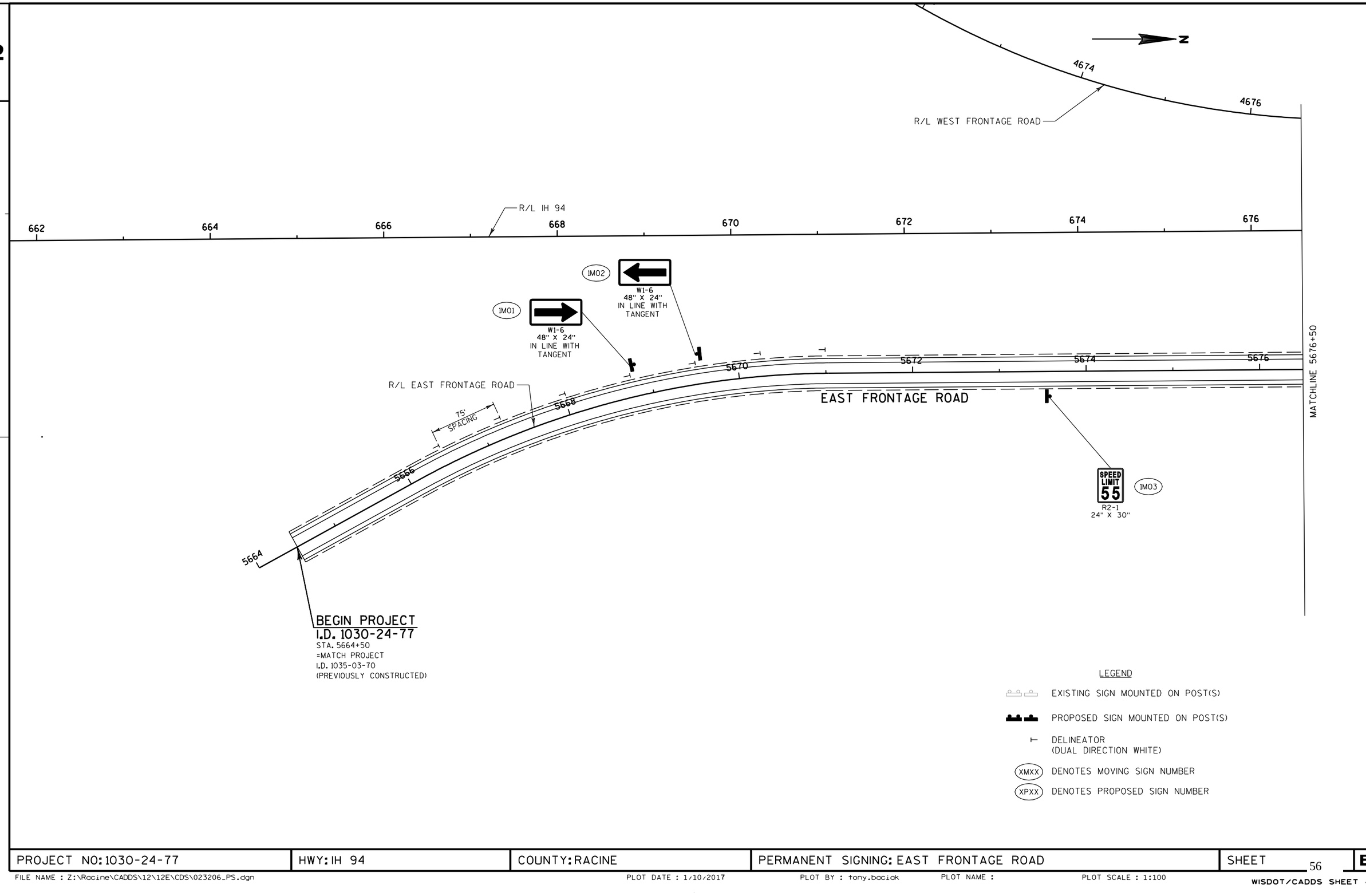
EXISTING SIGN MOUNTED ON POST(S)

XXXX DENOTES SIGN NUMBER

ESTR EXISTING SIGN TO REMAIN

NOTE: CONTRACTOR SHALL NOT REMOVE EXISTING SIGNING UNITL THE ROADWAY IS READY FOR N
SIGNING SO THERE IS NOT A LACK OF PROPER SIGNING WHEN THE ROADWAY IS OPEN TO TRAFFI

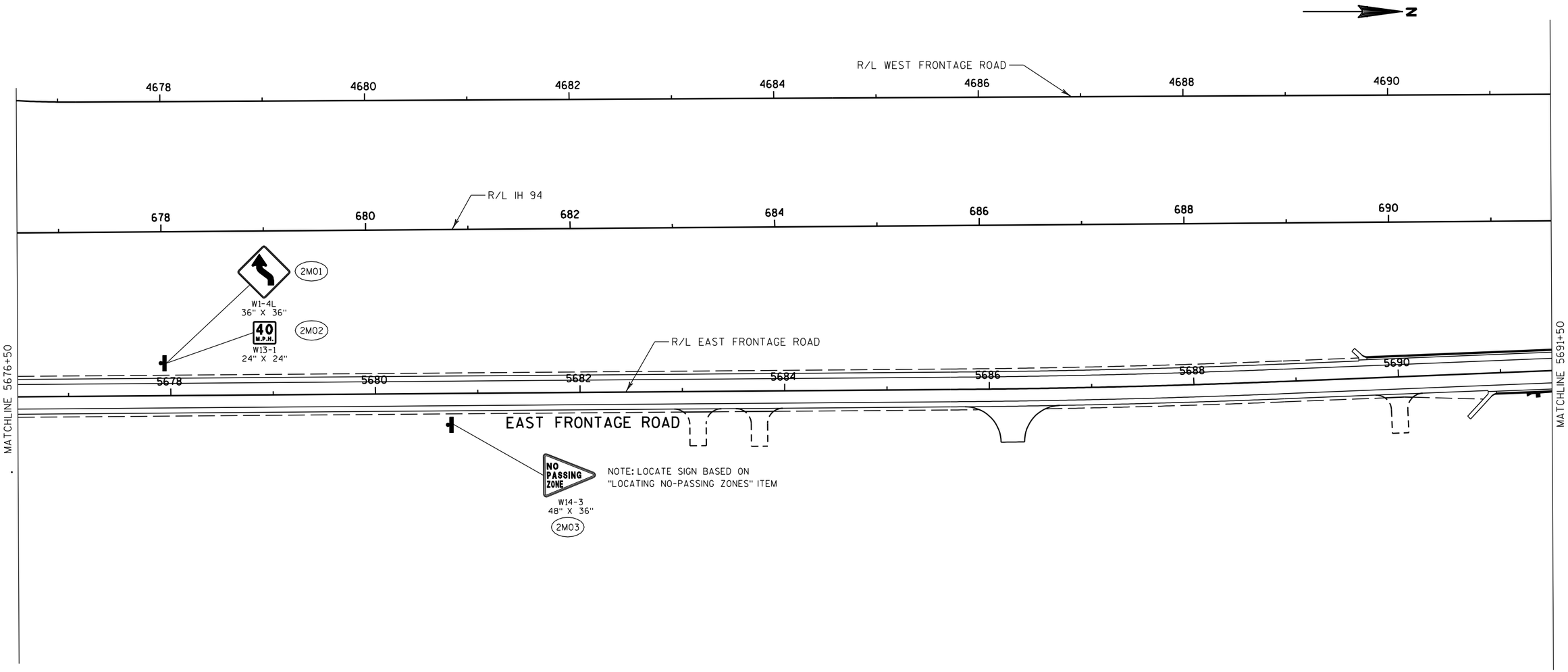
PROJECT NO: 1030-24-77	HWY: IH 94	COUNTY: RACINE	EXISTING SIGNING: EAST FRONTAGE ROAD	SHEET 55	E



LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POST(S)
- DELINEATOR (DUAL DIRECTION WHITE)
- (XMXX) DENOTES MOVING SIGN NUMBER
- (XPXX) DENOTES PROPOSED SIGN NUMBER

PROJECT NO: 1030-24-77	HWY: IH 94	COUNTY: RACINE	PERMANENT SIGNING: EAST FRONTAGE ROAD	SHEET 56	E



LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POST(S)
- DELINEATOR (DUAL DIRECTION WHITE)
- (XMXX) DENOTES MOVING SIGN NUMBER
- (XPXX) DENOTES PROPOSED SIGN NUMBER

PROJECT NO: 1030-24-77	HWY: IH 94	COUNTY: RACINE	PERMANENT SIGNING: EAST FRONTAGE ROAD	SHEET 57	E

FILE NAME : z:\racine\cadds\12\12e\cds\023207_PS.dgn PLOT DATE : 1/10/2017 PLOT BY : tony.baciak PLOT NAME : PLOT SCALE : 1:100

2

N

R/L WEST FRONTAGE ROAD

4692 4694 4696 4698 4700 4702 4704 4706

R/L IH 94

692 694 696 698 700 702 704 706

R/L EAST FRONTAGE ROAD

5692 5694 5696 5698 5700 5702 5704 5706

EAST FRONTAGE ROAD

MATCHLINE 5691+50

MATCHLINE 5706+50

3P02

NO PASSING ZONE

W14-3
48" X 36"

NOTE: LOCATE SIGN BASED ON "LOCATING NO-PASSING ZONES" ITEM

3P01

W3-1
36" X 36"

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POST(S)
- DELINEATOR (DUAL DIRECTION WHITE)
- (XMXX) DENOTES MOVING SIGN NUMBER
- (XPXX) DENOTES PROPOSED SIGN NUMBER

PROJECT NO: 1030-24-77	HWY: IH 94	COUNTY: RACINE	PERMANENT SIGNING: EAST FRONTAGE ROAD	SHEET 58	E

2

N

R/L WEST FRONTAGE ROAD

4708 4710 2712 2714 2716 2718 2720

50

R/L IH 94

708 710 712 714 716 718 720

BRAUN RD

55

R/L EAST FRONTAGE ROAD

EAST FRONTAGE ROAD

5708 5710 3712 3714 3716 3718 3720

MATCHLINE 5706+50

MATCHLINE 3721+50

R/L BRAUN ROAD

45

WEIGHT LIMIT CLASS B

MOVE

4M09

R1-1
36" X 36"

STOP

ALL WAY

R1-3-P
24" X 9"

4P01 4P03 4P05 4P07 4P13

4P02 4P04 4P06 4P08 4P14

SPEED LIMIT 55

R2-1
24" X 30"

4P09

NO PASSING ZONE

W14-3
48" X 36"

4P10

NOTE: LOCATE SIGN BASED ON "LOCATING NO-PASSING ZONES" ITEM

W3-1
36" X 36"

4P11

SPEED LIMIT 45

MOVE

4M10

56

INSTALL 450'FROM STOP SIGN

W3-1
36" X 36"

4P12

57

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POST(S)
- DELINEATOR (DUAL DIRECTION WHITE)
- (XMXX) DENOTES MOVING SIGN NUMBER
- (XPXX) DENOTES PROPOSED SIGN NUMBER

PROJECT NO: 1030-24-77	HWY: IH 94	COUNTY: RACINE	PERMANENT SIGNING: EAST FRONTAGE ROAD	SHEET 59	E

FILE NAME : z:\racine\cadds\12\12e\cds\023209_PS.dgn PLOT DATE : 1/10/2017 PLOT BY : tony.baciak PLOT NAME : PLOT SCALE : 1:100

2

2722 2724 2726 2728 2730 2732 2734

R/L WEST FRONTAGE ROAD

N

722 724 726 728 730 732 734 736

R/L IH 94

END PROJECT
I.D. 1030-24-77
STA. 3730+00
=MATCH PROJECT
I.D. 1030-24-77

R/L EAST FRONTAGE ROAD

3722 3724 3726 3728 3730 3732 3734

EAST FRONTAGE ROAD

. MATCHLINE 3721+50

SPEED LIMIT 45

W3-5
36" X 36"

5P01

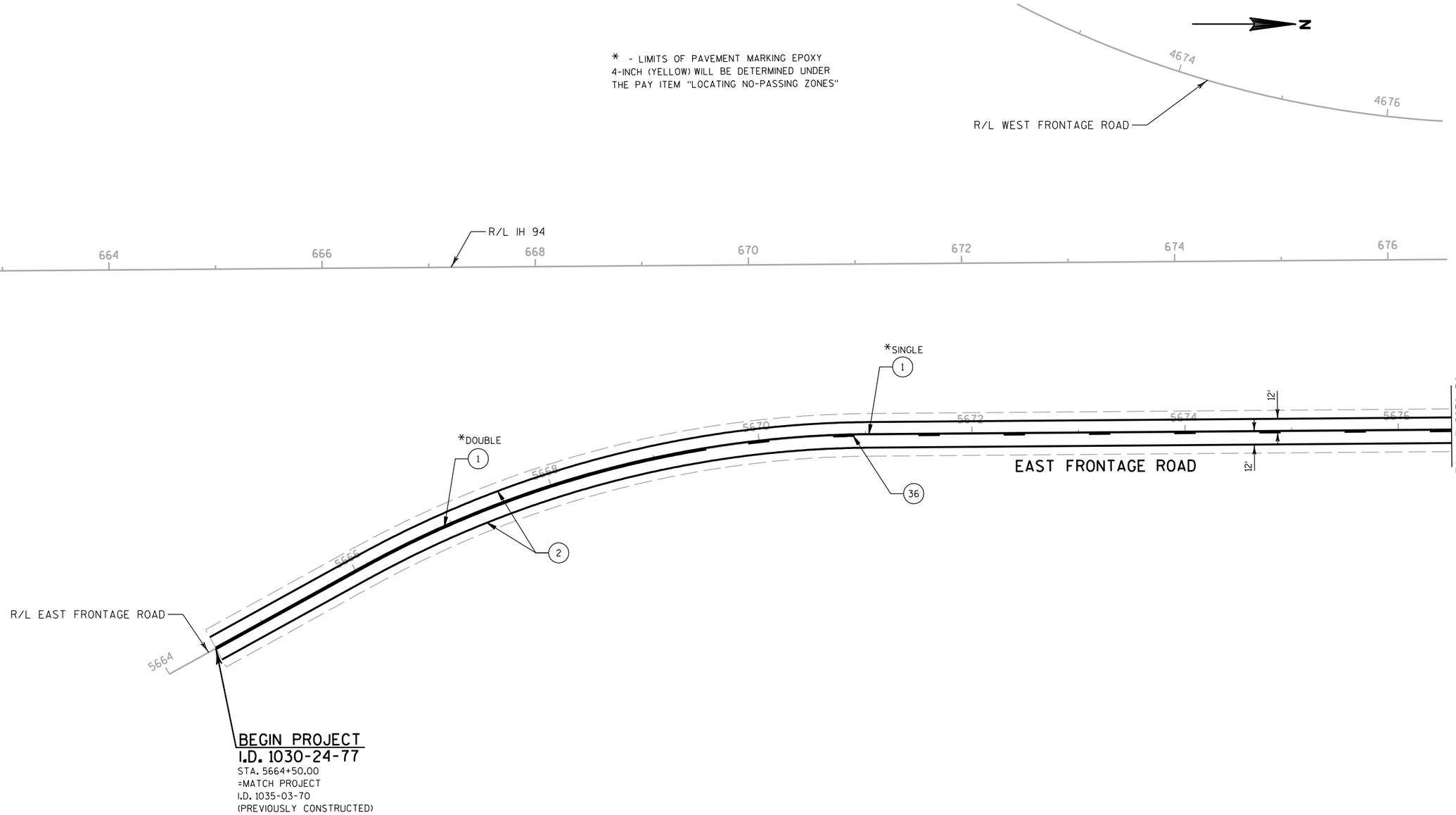
LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POST(S)
- DELINEATOR (DUAL DIRECTION WHITE)
- (XMXX) DENOTES MOVING SIGN NUMBER
- (XPXX) DENOTES PROPOSED SIGN NUMBER

PROJECT NO: 1030-24-77	HWY: IH 94	COUNTY: RACINE	PERMANENT SIGNING: EAST FRONTAGE ROAD	SHEET 60	E

FILE NAME : z:\racine\cadds\12\12e\cds\023210_PS.dgn PLOT DATE : 1/10/2017 PLOT BY : tony.baciak PLOT NAME : PLOT SCALE : 1:100

* - LIMITS OF PAVEMENT MARKING EPOXY
4-INCH (YELLOW) WILL BE DETERMINED UNDER
THE PAY ITEM "LOCATING NO-PASSING ZONES"



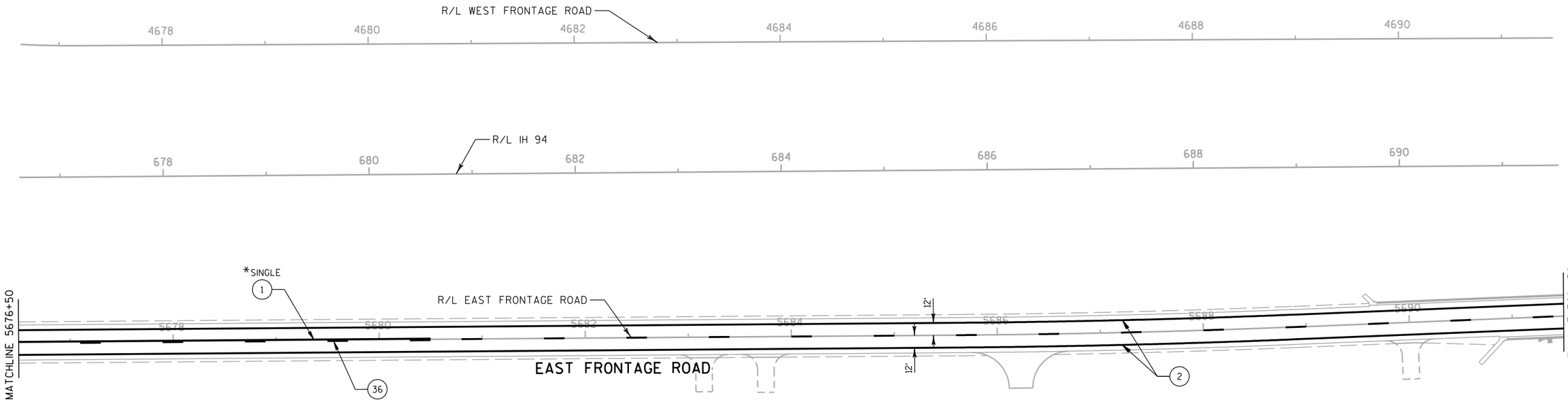
LEGEND

(1) PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
(2) PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
(7) PAVEMENT MARKING STOPLINE EPOXY 18-INCH (WHITE)
(36) PAVEMENT MARKING EPOXY 4-INCH (DASHED YELLOW)

PROJECT NO: 1030-24-77	HWY: IH 94	COUNTY: RACINE	PAVEMENT MARKING: EAST FRONTAGE ROAD	SHEET 61 E

* - LIMITS OF PAVEMENT MARKING EPOXY 4-INCH (YELLOW) WILL BE DETERMINED UNDER THE PAY ITEM "LOCATING NO-PASSING ZONES"

N



LEGEND

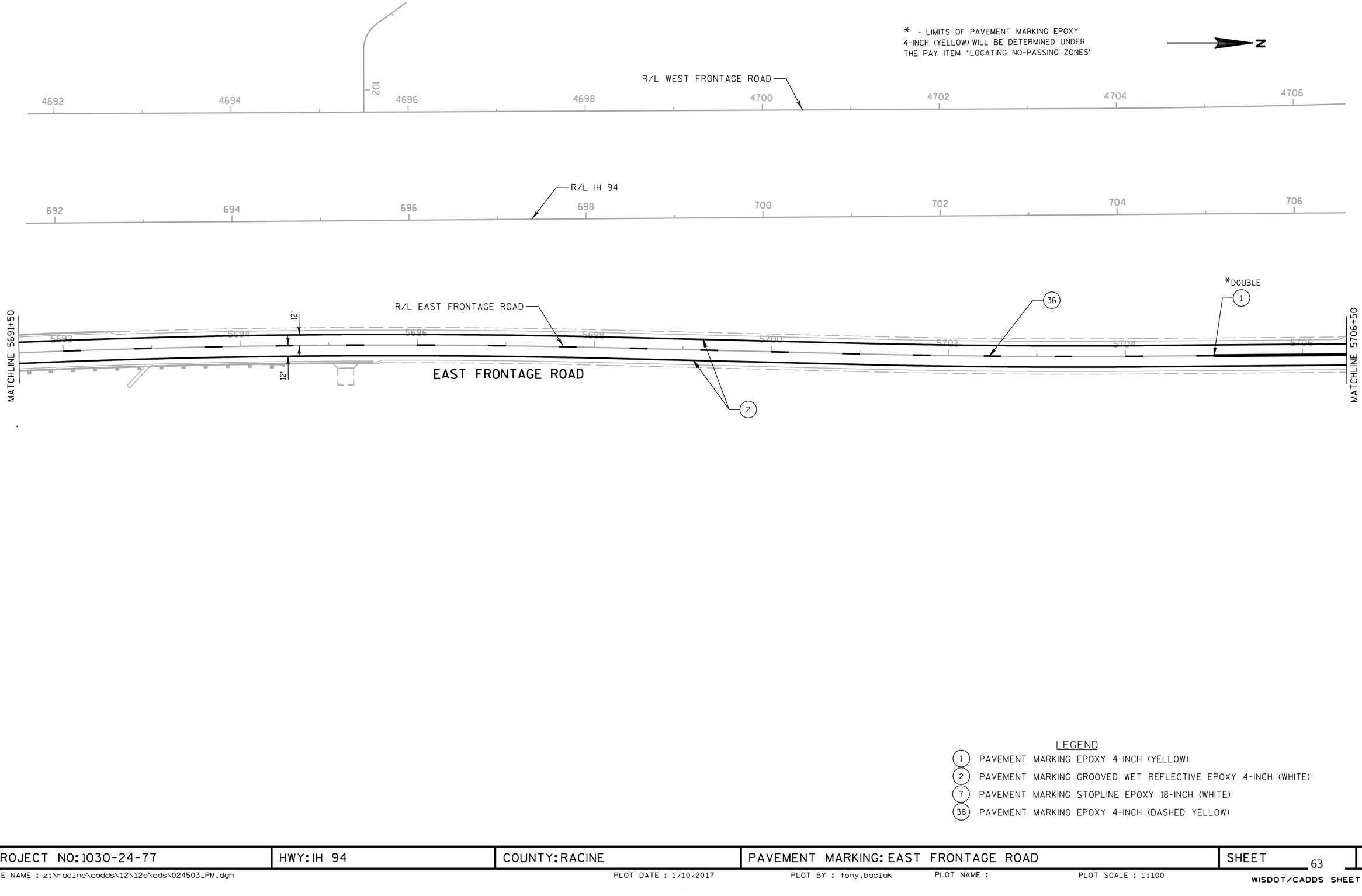
(1) PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
(2) PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
(7) PAVEMENT MARKING STOPLINE EPOXY 18-INCH (WHITE)
(36) PAVEMENT MARKING EPOXY 4-INCH (DASHED YELLOW)

PROJECT NO: 1030-24-77	HWY: IH 94	COUNTY: RACINE	PAVEMENT MARKING: EAST FRONTAGE ROAD	SHEET 62	E

2

* - LIMITS OF PAVEMENT MARKING EPOXY 4-INCH (YELLOW) WILL BE DETERMINED UNDER THE PAY ITEM "LOCATING NO-PASSING ZONES"

N

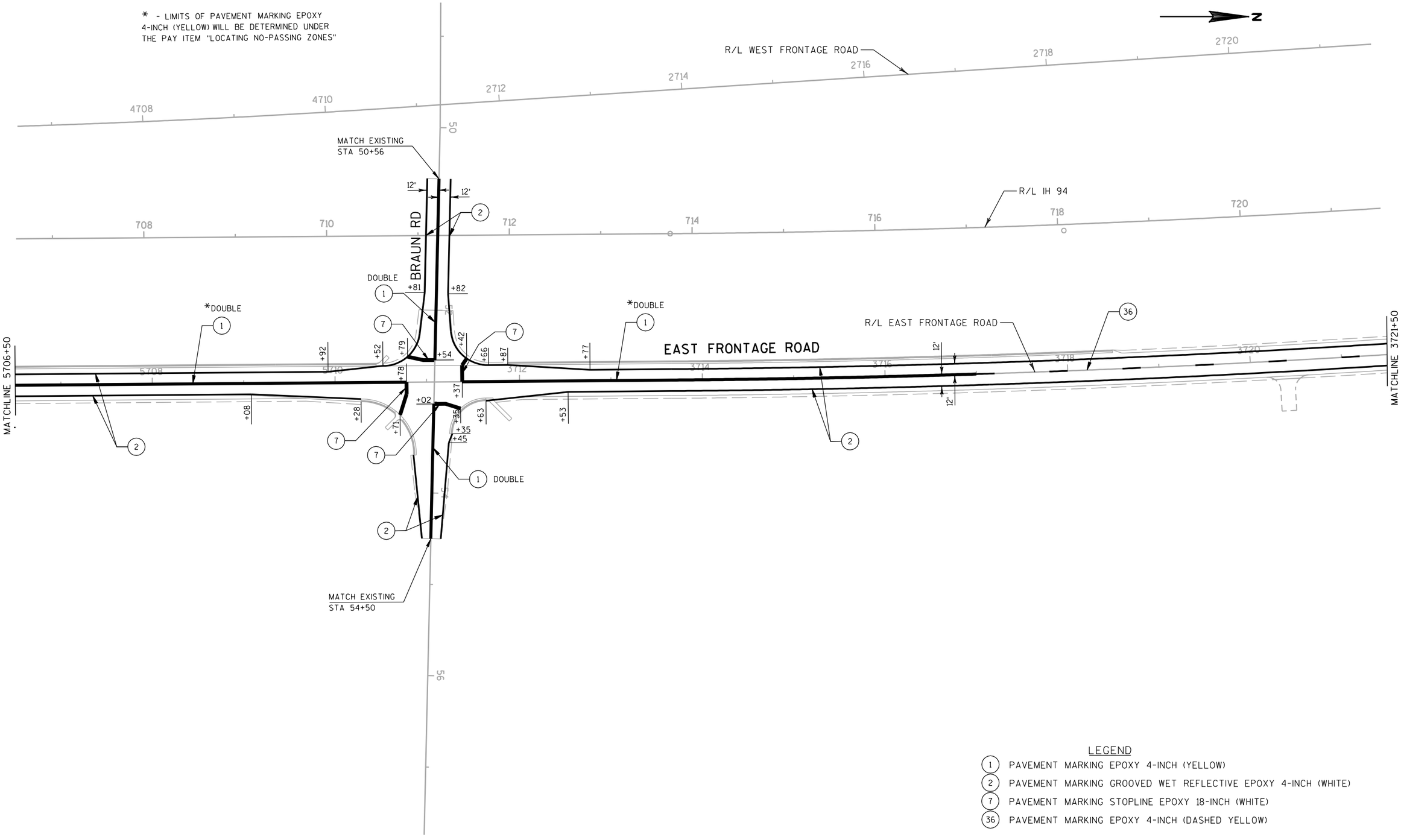


LEGEND

(1) PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
(2) PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
(7) PAVEMENT MARKING STOPLINE EPOXY 18-INCH (WHITE)
(36) PAVEMENT MARKING EPOXY 4-INCH (DASHED YELLOW)

PROJECT NO: 1030-24-77	HWY: IH 94	COUNTY: RACINE	PAVEMENT MARKING: EAST FRONTAGE ROAD	SHEET 63	E

* - LIMITS OF PAVEMENT MARKING EPOXY 4-INCH (YELLOW) WILL BE DETERMINED UNDER THE PAY ITEM "LOCATING NO-PASSING ZONES"

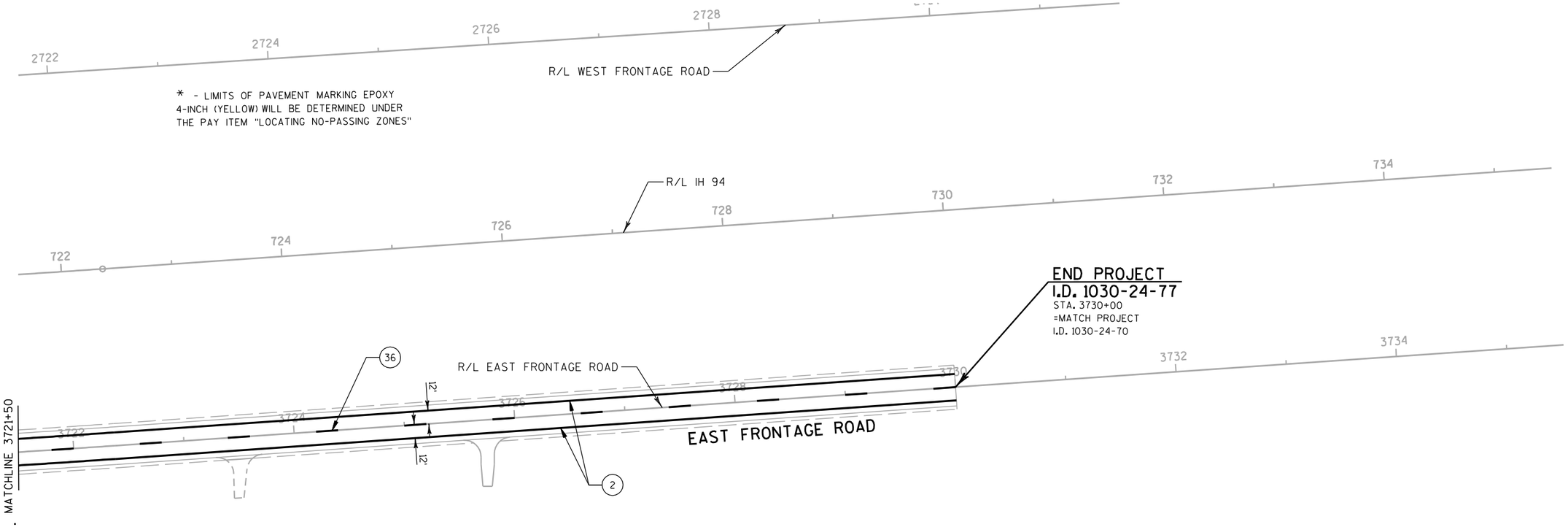


LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
2. PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
7. PAVEMENT MARKING STOPLINE EPOXY 18-INCH (WHITE)
36. PAVEMENT MARKING EPOXY 4-INCH (DASHED YELLOW)

PROJECT NO: 1030-24-77	HWY: IH 94	COUNTY: RACINE	PAVEMENT MARKING: EAST FRONTAGE ROAD	SHEET 64 E

2



LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
2. PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
7. PAVEMENT MARKING STOPLINE EPOXY 18-INCH (WHITE)
36. PAVEMENT MARKING EPOXY 4-INCH (DASHED YELLOW)

PROJECT NO: 1030-24-77	HWY: IH 94	COUNTY: RACINE	PAVEMENT MARKING: EAST FRONTAGE ROAD	SHEET 65	E

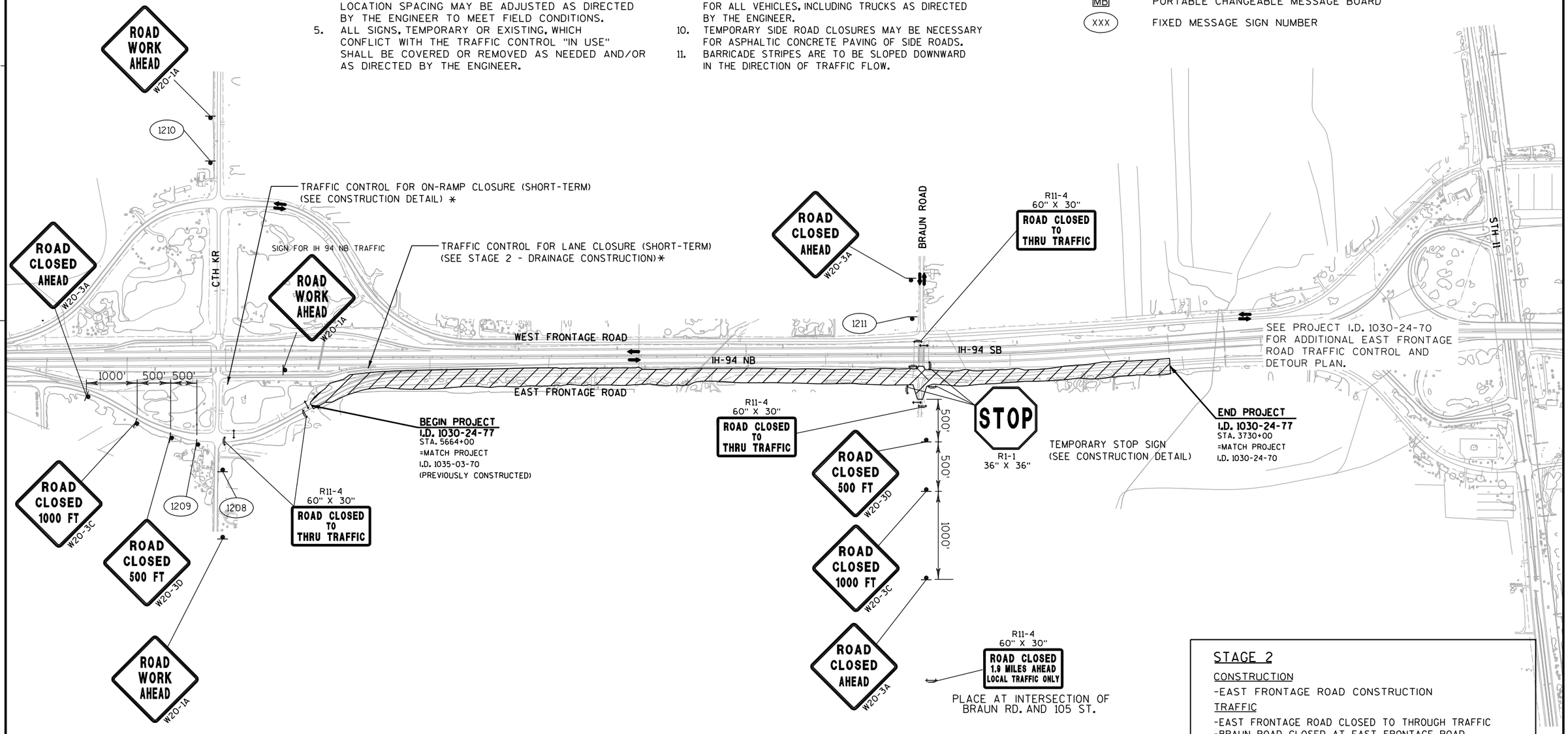
GENERAL NOTES FOR CONSTRUCTION STAGING AND TRAFFIC CONTROL

1. ALL TRAFFIC CONTROL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED IN THE PLANS.
2. "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS REFLECTIVE ORANGE.
3. TRAFFIC CONTROL DRUMS IN TAPERS, SHALL BE EQUIPPED WITH TRAFFIC CONTROL WARNING LIGHTS, TYPE "C", ONE WAY LIGHTS IN TAPERS ONLY, UNLESS OTHERWISE SHOWN. DRUMS SHALL BE SPACED AT 25-FT OC IN TAPERS AND 50-FT OC ON TANGENTS OR AS OTHERWISE SHOWN.
4. SIGN LOCATIONS ARE APPROXIMATE. THE ACTUAL LOCATION SPACING MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER TO MEET FIELD CONDITIONS.
5. ALL SIGNS, TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE COVERED OR REMOVED AS NEEDED AND/OR AS DIRECTED BY THE ENGINEER.
6. ALL EXISTING CONFLICTING PAVEMENT MARKING SHALL BE REMOVED.
7. A FLAGGER MAY BE REQUIRED WHERE CONSTRUCTION VEHICLES ENTER OR LEAVE "WORK/CLOSED" AREAS IF WARRANTED BY CONDITIONS AND/OR AS DIRECTED BY THE ENGINEER.
8. CONTRACTOR SHALL INSTALL PERMANENT SIGNS AND PERMANENT PAVEMENT MARKING WHEN APPROPRIATE DURING CONSTRUCTION STAGING AS SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER.
9. ADEQUATE TURNING PROVISION SHALL BE MAINTAINED FOR ALL VEHICLES, INCLUDING TRUCKS AS DIRECTED BY THE ENGINEER.
10. TEMPORARY SIDE ROAD CLOSURES MAY BE NECESSARY FOR ASPHALTIC CONCRETE PAVING OF SIDE ROADS.
11. BARRICADE STRIPES ARE TO BE SLOPED DOWNWARD IN THE DIRECTION OF TRAFFIC FLOW.

LEGEND

- TYPE III BARRICADE WITH LIGHTS
- TYPE III BARRICADE WITH LIGHTS AND ATTACHED SIGN
- SIGN ON TEMPORARY SUPPORT
- SIGN ON PERMANENT SUPPORT
- WORK AREA
- DIRECTION OF TRAFFIC
- MB — PORTABLE CHANGEABLE MESSAGE BOARD
- XXX — FIXED MESSAGE SIGN NUMBER

N



STAGE 2

CONSTRUCTION

-EAST FRONTAGE ROAD CONSTRUCTION

TRAFFIC

-EAST FRONTAGE ROAD CLOSED TO THROUGH TRAFFIC
-BRAUN ROAD CLOSED AT EAST FRONTAGE ROAD
-CTH KR NB ON RAMP CLOSED (SHORT TERM) FOR DRAINAGE CONSTRUCTION

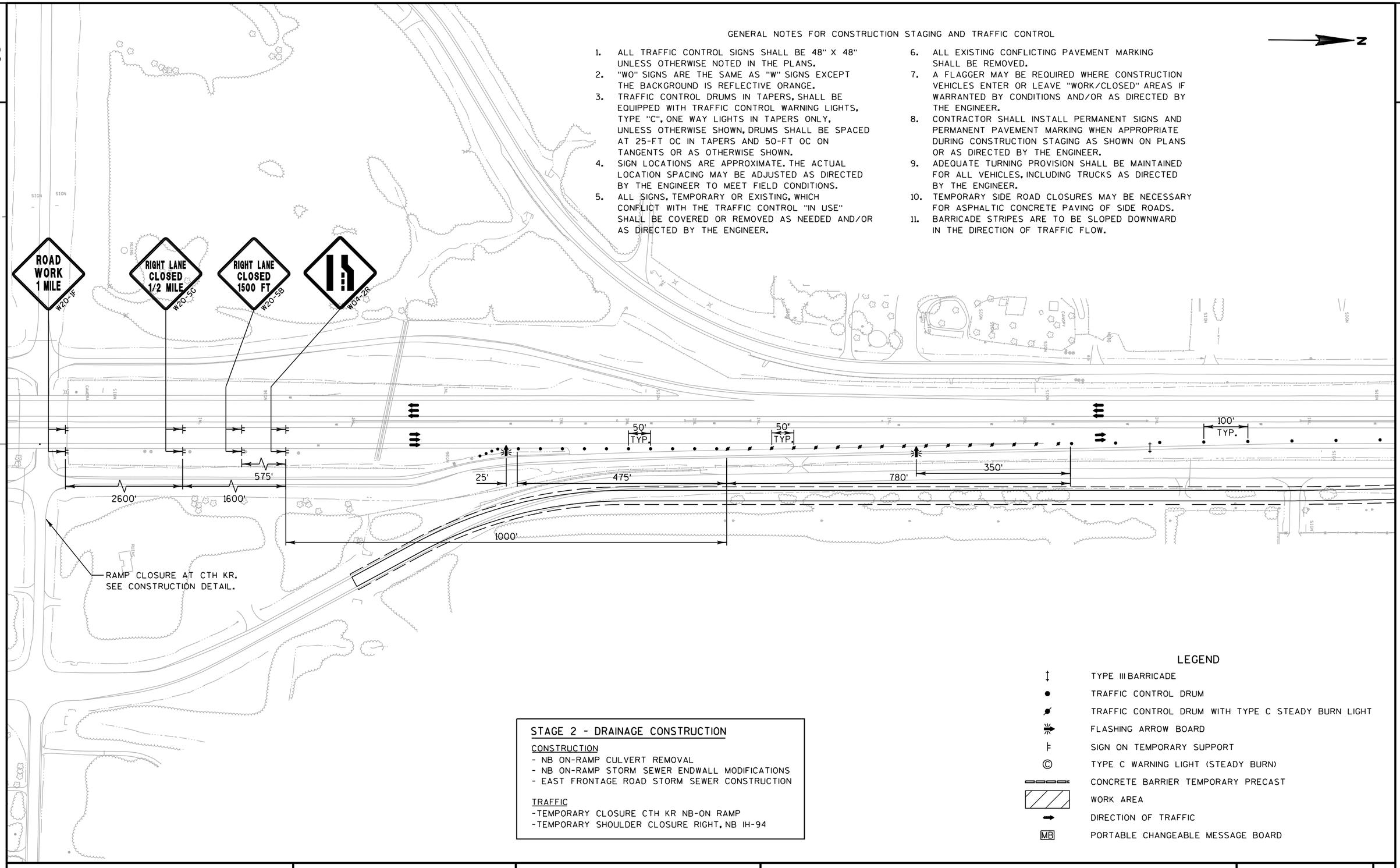
PROJECT NO: 1030-24-77	HWY: IH 94	COUNTY: RACINE	TRAFFIC CONTROL: STAGE 2	SHEET 66	E

2

GENERAL NOTES FOR CONSTRUCTION STAGING AND TRAFFIC CONTROL

1. ALL TRAFFIC CONTROL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED IN THE PLANS.
2. "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS REFLECTIVE ORANGE.
3. TRAFFIC CONTROL DRUMS IN TAPERS, SHALL BE EQUIPPED WITH TRAFFIC CONTROL WARNING LIGHTS, TYPE "C", ONE WAY LIGHTS IN TAPERS ONLY, UNLESS OTHERWISE SHOWN, DRUMS SHALL BE SPACED AT 25-FT OC IN TAPERS AND 50-FT OC ON TANGENTS OR AS OTHERWISE SHOWN.
4. SIGN LOCATIONS ARE APPROXIMATE. THE ACTUAL LOCATION SPACING MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER TO MEET FIELD CONDITIONS.
5. ALL SIGNS, TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE COVERED OR REMOVED AS NEEDED AND/OR AS DIRECTED BY THE ENGINEER.
6. ALL EXISTING CONFLICTING PAVEMENT MARKING SHALL BE REMOVED.
7. A FLAGGER MAY BE REQUIRED WHERE CONSTRUCTION VEHICLES ENTER OR LEAVE "WORK/CLOSED" AREAS IF WARRANTED BY CONDITIONS AND/OR AS DIRECTED BY THE ENGINEER.
8. CONTRACTOR SHALL INSTALL PERMANENT SIGNS AND PERMANENT PAVEMENT MARKING WHEN APPROPRIATE DURING CONSTRUCTION STAGING AS SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER.
9. ADEQUATE TURNING PROVISION SHALL BE MAINTAINED FOR ALL VEHICLES, INCLUDING TRUCKS AS DIRECTED BY THE ENGINEER.
10. TEMPORARY SIDE ROAD CLOSURES MAY BE NECESSARY FOR ASPHALTIC CONCRETE PAVING OF SIDE ROADS.
11. BARRICADE STRIPES ARE TO BE SLOPED DOWNWARD IN THE DIRECTION OF TRAFFIC FLOW.

N



STAGE 2 - DRAINAGE CONSTRUCTION

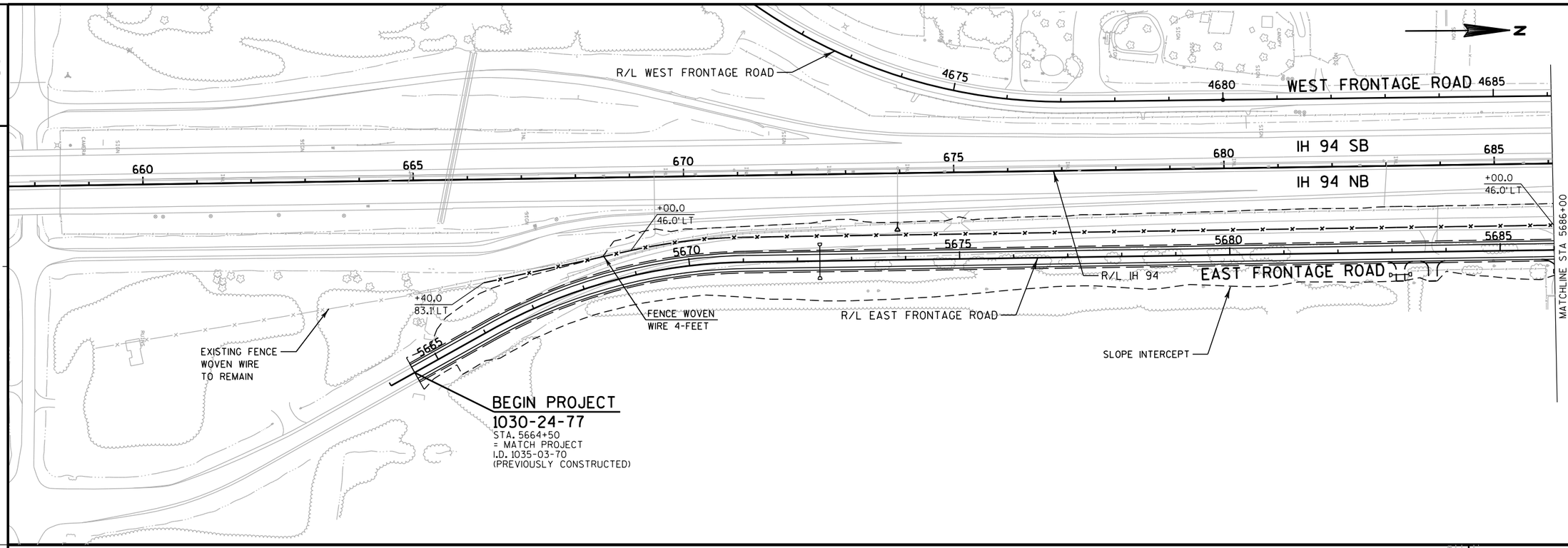
CONSTRUCTION
- NB ON-RAMP CULVERT REMOVAL
- NB ON-RAMP STORM SEWER ENDWALL MODIFICATIONS
- EAST FRONTAGE ROAD STORM SEWER CONSTRUCTION

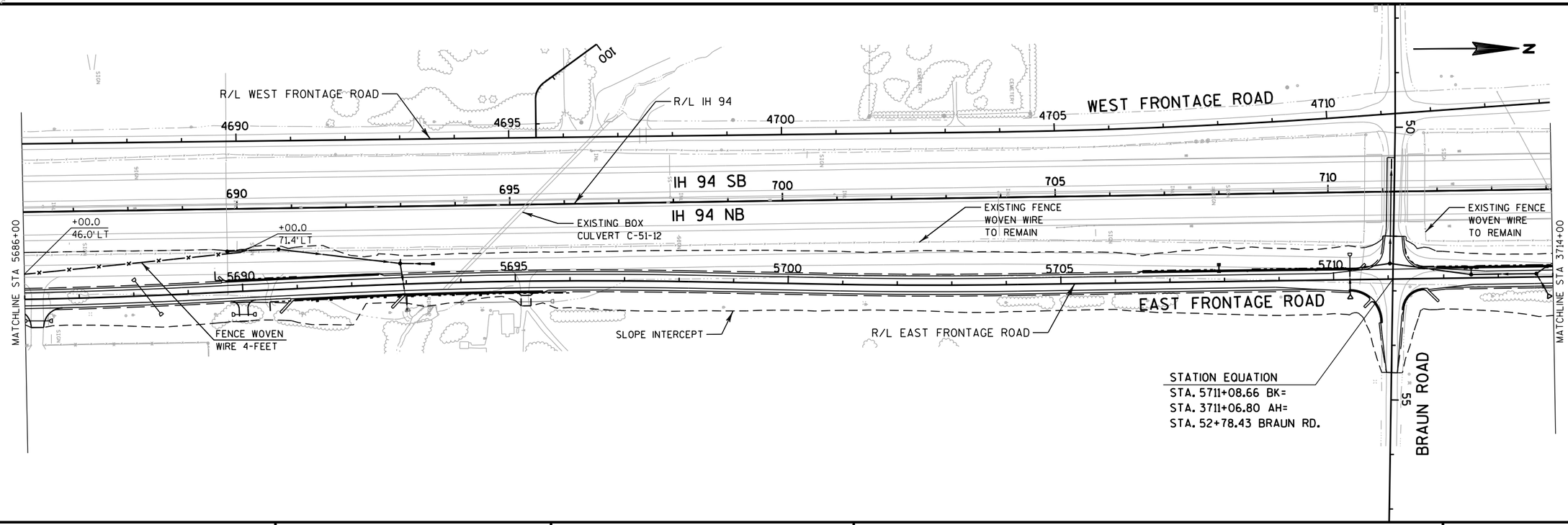
TRAFFIC
-TEMPORARY CLOSURE CTH KR NB-ON RAMP
-TEMPORARY SHOULDER CLOSURE RIGHT, NB IH-94

LEGEND

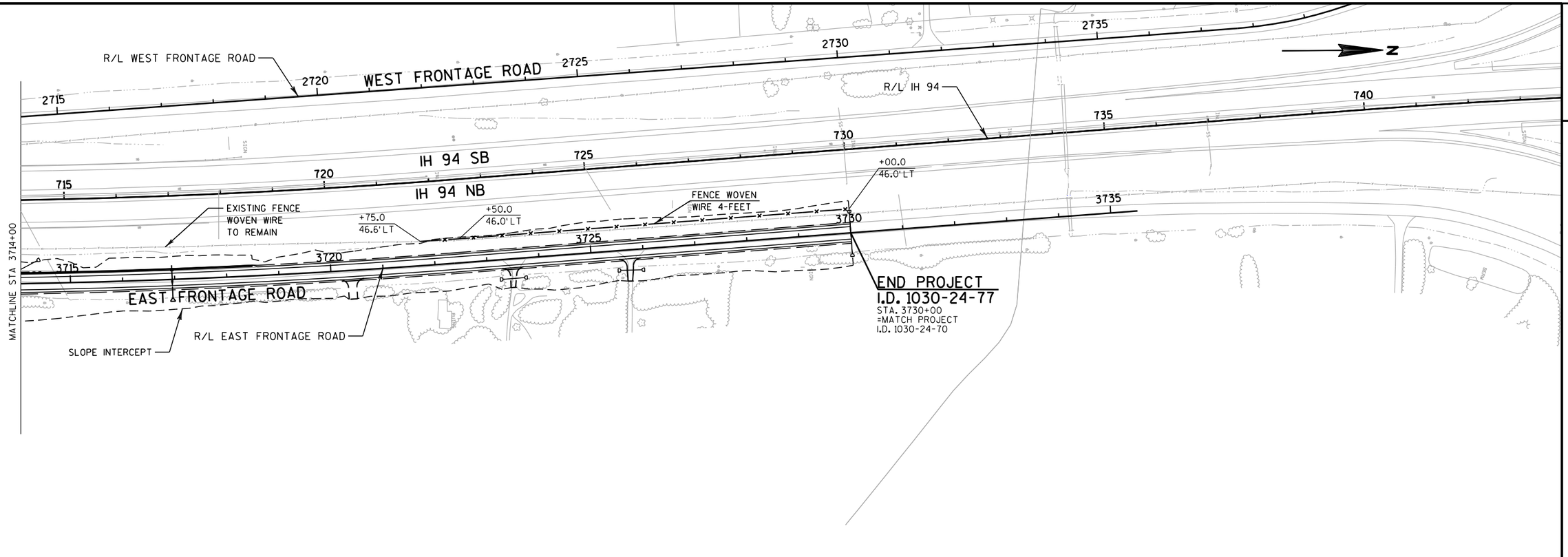
- TYPE III BARRICADE
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON TEMPORARY SUPPORT
- TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- DIRECTION OF TRAFFIC
- MB — PORTABLE CHANGEABLE MESSAGE BOARD

PROJECT NO:1030-24-77	HWY: IH 94	COUNTY: RACINE	TRAFFIC CONTROL: STAGE 2 - DRAINAGE CONSTRUCTION	SHEET 67 E





PROJECT NO: 1030-24-77	HWY: IH 94	COUNTY: RACINE	FENCE PLAN: EAST FRONTAGE ROAD	SHEET 68	E



PROJECT NO: 1030-24-77	HWY: IH 94	COUNTY: RACINE	FENCE PLAN: EAST FRONTAGE ROAD	SHEET 69	E

2

4655 4660 4665 4670 4675 4680 4685

POINT SEC3168
Y=165066.28
X=591509.07

POINT SEC3155
CAST IRON MON.
WITH BRASS CAP
Y=167739.07
X=591498.57

CURVE DATA											
CURVE NO.	PI	PI COORDINATES X	PI COORDINATES Y	Δ	D	T	L	E	R	PC	PT
DAAR1	5668+60.56	594438.92	166134.91	28°24'28"	5°43'47"	253.11'	495.81'	31.54'	1000.00	5666+07.45	5671+03.26

CONTROL POINTS			
POINT NO.	COORDINATES X	COORDINATES Y	DESCRIPTION
BM13	594051.20	166805.42	RRSP SPLIT 42" MAPLE
BM14	594491.57	166633.57	RRSP PP67-23364
CP5000	596626.30	167671.60	
CP5001	596084.88	167710.19	

N

TOWN OF
YORKVILLE

N 89°58'50" E 2645.78' SECTION LINE

S 89°50'01" E 2641.95' 1/4 SECTION LINE

R/L WEST FRONTAGE ROAD

FOR REFERENCE ONLY

CP65911

CONCRETE MON.
WITH BRASS CAP
Y=167067.17
X=594154.86

POINT SEC3156
CONCRETE MON.
WITH ALUM. CAP
Y=167731.39
X=594140.50

BM13

CP67241

HMOD1Y03

2664.26' N 0°18'32" W SECTION LINE

CP68041

SECTION LINE = R/L WEST FRONTAGE ROAD

CP68742

WEST FRONTAGE ROAD

CP65855

660 665 670 675 680 685

R/L IH 94

FOR REFERENCE ONLY

IH-94 SB

IH-94 NB

289.17'

285.44'

PC KC3465

STA. 5684+42
Y= 167726.71
X= 594426.33

CURVE KC3465

N 0° 27'15"W

PI KC3465

CP65729

KENOSHA COUNTY

RACINE COUNTY

S 89° 9'35" E 2527.21'

PI DAAR1

PC DAAR1

CURVE DAAR1

PT DAAR1

5665 5670 5675 5680

N 0° 27'15" W

EAST FRONTAGE ROAD

BM14

BEGIN PROJECT
1030-24-77
STA. 5664+50
=MATCH PROJECT
I.D. 1035-03-70
Y=165775.34
X=594637.10

N 28° 51'43" W

R/L EAST FRONTAGE ROAD

VILLAGE OF MT. PLEASANT

CURVE DAAR1

SUPERELEVATION & CROSS SLOPE DATA	STATION	RATE LEFT	RATE RIGHT
BEGIN SUPER TRANSITION	5664+64	-2.00%	-2.00%
END CROWN RUNOFF	5665+12	0.00%	-2.00%
REMOVE ADVERSE CROWN	5665+60	2.00%	-2.00%
BEGIN FULL SUPER	5666+54	5.90%	-5.90%
END FULL SUPER	5670+56	5.90%	-5.90%
REMOVE ADVERSE CROWN	5671+50	2.00%	-2.00%
BEGIN CROWN RUNON	5671+98	0.00%	-2.00%
END SUPER TRANSITION	5672+46	-2.00%	-2.00%

NOTE: POSITIVE VALUES SLOPE TOWARDS THE REFERENCE LINE
NEGATIVE VALUES SLOPE AWAY FROM THE REFERENCE LINE

S 89°03'40" E 2652.12'

POINT SEC3145
CAST IRON MON.
WITH BRASS CAP
Y=167689.57
X=596692.28

POINT SEC3158
Y=165030.12
X=596681.84

PROJECT NO: 1030-24-77	HWY: IH 94	COUNTY: RACINE	ALIGNMENT LAYOUT: EAST FRONTAGE ROAD	SHEET 70 E

CURVE DATA											
CURVE NO.	PI	PI COORDINATES X	PI COORDINATES Y	Δ	D	T	L	E	R	PC	PT
KC3465	5687+24.88	594424.07	168009.58	(1°52'04")	0°34'23"	163.02'	326.00'	1.33'	10000.00	5685+61.87	5688+87.87
KC3466	5694+91.85	594392.99	168775.95	3°44'14"	0°34'23"	326.25'	652.26'	5.32'	10000.00	5691+65.60	5698+17.86
KC3467	5702+58.02	594411.92	169542.12	(1°52'09")	0°34'23"	163.14'	326.25'	1.33'	10000.00	5700+94.88	5704+21.14

CURVE KC3466

SUPERELEVATION & CROSS SLOPE DATA	STATION	RATE LEFT	RATE RIGHT
BEGIN SUPER TRANSITION	5690+77	-2.00%	-2.00%
END CROWN RUNOFF	5691+30	0.00%	-2.00%
BEGIN FULL SUPER	5691+83	2.00%	-2.00%
END FULL SUPER	5698+00	2.00%	-2.00%
BEGIN CROWN RUNON	5698+53	0.00%	-2.00%
END SUPER TRANSITION	5699+06	-2.00%	-2.00%

NOTE: POSITIVE VALUES SLOPE TOWARDS THE REFERENCE LINE
NEGATIVE VALUES SLOPE AWAY FROM THE REFERENCE LINE

CONTROL POINTS			
POINT NO.	COORDINATES X	COORDINATES Y	DESCRIPTION
HMOD1	593977.80	170296.36	TY:DISK IN CONCRETE

POINT SEC3155
CAST IRON MON. WITH BRASS CAP
Y=167739.07
X=591498.57

POINT SEC3142
CAST IRON MON.
WITH BRASS CAP
Y=170411.23
X=591482.10

S 89°50'01" E 2641.95'

S 89°44'10" E 2644.746'

BRAUN ROAD

1/4 SECTION LINE

SECTION LINE

R/L BRAUN ROAD
=SECTION LINE

POINT SEC3156
CONCRETE MON. WITH ALUM. CAP
Y=167731.39
X=594140.50

POINT SEC3143
CAST IRON MON.
WITH BRASS CAP
Y=170399.04
X=594126.82

HMOD1Y04

TOWN OF
YORKVILLE

FOR REFERENCE ONLY

R/L WEST FRONTAGE ROAD

CP70481

WEST FRONTAGE ROAD

2667.69'
N 0°17'38" W

SECTION LINE

SECTION LINE = R/L WEST FRONTAGE ROAD

CP68742

CP71187

BEGIN CONSTRUCTION
STA. 52+00

B-51-124

R/L IH 94

IH-94 SB

IH-94 NB

FOR REFERENCE ONLY

CP69372

CP71058

PC KC3465
PT KC3465
PC KC3466
PI KC3466
PC KC3467
PT KC3467
PC FKR11W1

CURVE KC3465
CURVE 3466
CURVE KC3467

R/L EAST FRONTAGE ROAD

N 0° 27'15"W
N 2° 19' 19" W
N 1° 24' 55" E
N 0° 27' 15" W
N 0° 27' 15" W

EAST FRONTAGE ROAD

PI KC3465
PT KC3466
PI KC3467

STA. 5684+42
Y= 167726.71
X= 594426.33

STATION EQUATION
STA. 5711+08.67 BK=
STA. 3711+06.80 AH=
STA. 52+78.43 BRAUN RD.
Y= 170392.76
X= 594405.18

END CONSTRUCTION
STA. 54+50

CURVE KC3465

SUPERELEVATION & CROSS SLOPE DATA	STATION	RATE LEFT	RATE RIGHT
BEGIN SUPER TRANSITION	5684+74	-2.00%	-2.00%
END CROWN RUNOFF	5685+27	-2.00%	0.00%
BEGIN FULL SUPER	5685+80	-2.00%	2.00%
END FULL SUPER	5688+70	-2.00%	2.00%
BEGIN CROWN RUNON	5689+23	-2.00%	0.00%
END SUPER TRANSITION	5689+76	-2.00%	-2.00%

CURVE KC3467

SUPERELEVATION & CROSS SLOPE DATA	STATION	RATE LEFT	RATE RIGHT
BEGIN SUPER TRANSITION	5700+07	-2.00%	-2.00%
END CROWN RUNOFF	5700+60	-2.00%	0.00%
BEGIN FULL SUPER	5701+13	-2.00%	2.00%
END FULL SUPER	5704+03	-2.00%	2.00%
BEGIN CROWN RUNON	5704+56	-2.00%	0.00%
END SUPER TRANSITION	5705+09	-2.00%	-2.00%

S 89°53'40" E 2522.21'

S 88°42'26" E 2538.264'

POINT SEC3145
CAST IRON MON. WITH BRASS CAP
Y=167689.57
X=596692.28

POINT SEC3132
CAST IRON MON.
WITH BRASS CAP
Y=170341.77
X=596664.43

VILLAGE OF MT. PLEASANT

PROJECT NO: 1030-24-77	HWY: IH 94	COUNTY: RACINE	ALIGNMENT LAYOUT: EAST FRONTAGE ROAD	SHEET 71	E

CURVE DATA											
CURVE NO.	PI	PI COORDINATES X	PI COORDINATES Y	Δ	D	T	L	E	R	PC	PT
FKR11W1	3718+01.94	594399.67	171087.88	(3°31'33")	0°24'17"	435.82'	871.37'	6.71'	14160.25	3713+66.12	3722+37.48

POINT SEC3142
CAST IRON MON. WITH BRASS CAP
Y=170411.23
X=591482.10

POINT SEC3129
CAST IRON MON.
WITH BRASS CAP
Y= 173056.26
X=591480.34

N

BRAUN ROAD

S 89°44'10" E
2644.74'

S 89°44'05" E
2640.45'

1/4 SECTION LINE

R/L BRAUN ROAD
=SECTION LINE

TOWN OF
YORKVILLE

POINT SEC3143
CAST IRON MON. WITH BRASS CAP
Y=170399.04
X=594126.82

Y=173044.02
X=594120.76

HMOD1Y04

R/L WEST FRONTAGE ROAD

FOR REFERENCE ONLY

WEST FRONTAGE ROAD

2644.98'
N 0°07'52" W

SECTION LINE

CP71187

R/L IH 94

IH-94 SB

IH-94 NB

245.18'

B-51-123

FOR REFERENCE ONLY

R/L EAST FRONTAGE ROAD

BEGIN CONSTRUCTION
STA. 52+00

PC
FKR11W1

PT
FKR11W1

CP72663

CP71058

N 0° 27' 15" W

CURVE FKR11W1

PI
FKR11W1

N 3° 58' 48" W

EAST FRONTAGE ROAD

CP72779

CP73787

STATION EQUATION
STA. 5711+08.67 BK=
STA. 3711+06.80 AH=
STA. 52+78.43 BRAUN RD.
Y= 170392.76
X= 594405.18

END PROJECT
I.D. 1030-24-77
STA. 3730+00
=MATCH PROJECT
I.D. 1030-24-70
Y=172283.33
X=594316.50

END CONSTRUCTION
STA. 54+50

S 88°57'41" E
2519.96'

S 88°42'26" E
2538.264'

POINT SEC3132
CAST IRON MON. WITH BRASS CAP
Y=170341.77
X=596664.43

POINT SEC3119
CAST IRON MON.
WITH BRASS CAP
Y=172998.34
X=596640.31

VILLAGE OF MT. PLEASANT

PROJECT NO: 1030-24-77	HWY: IH 94	COUNTY: RACINE	ALIGNMENT LAYOUT: EAST FRONTAGE ROAD	SHEET 72 E

FILE NAME : z:\racine\cadds\12\12e\cds\027203_AD.dgn PLOT DATE : 1/10/2017 PLOT BY : tony.baciak PLOT NAME : PLOT SCALE : 1:200

WISDOT/CADDS SHEET 42

2

2

4655

4660

4665

4670

4675

4680

4685

CTH KR

R/L WEST FRONTAGE ROAD

CP65911
F1000SPK BERNTSEN FENO WITH ALUM CAP
STA. 659+11.40, 361.37' LT
N=165183.46
E=593924.91
ELEV.=746.48

HMOD 1Y03
EXISTING WISDOT BRONZE DISK IN CONCRETE
MARKED BY 2 WHITE WITNESS POSTS
STA. 658+64.06, 203.08' LT
N=165137.44
E=594083.49
ELEV.=734.85

CP67241
F1000SPK BERNTSEN FENO WITH ALUM CAP
STA. 672+40.83, 213.82' LT
N=166514.09
E=594061.92
ELEV.=738.80

CP68041
CP BM TOP SW BOLT W LEG SIGN POST BASE
EXIT 337 SIGN W SIDE SB I94
STA. 680+40.73, 90.91' LT
N=167314.94
E=594178.40
ELEV.=739.25

WEST FRONTAGE ROAD

IH-94 SB

IH-94 NB

660

665

670

675

680

685

R/L IH 94

CP65855
CP BM BRIDGE DISK TOP PARAPET WALL NW CORNER
I94 BRIDGE 30/51-15-58 OVER 1ST ST
STA. 658+55.32, 67.52' LT
N=165129.78
E=594219.19
ELEV.=752.42

CP65729
CP BM BRIDGE DISK TOP PARAPET WALL SE CORNER
I94 BRIDGE 30/51-15-58 OVER 1ST ST
STA. 657+29.21, 53.89' RT
N=165004.64
E=594341.44
ELEV.=752.41

5665

5670

5675

5680

5685

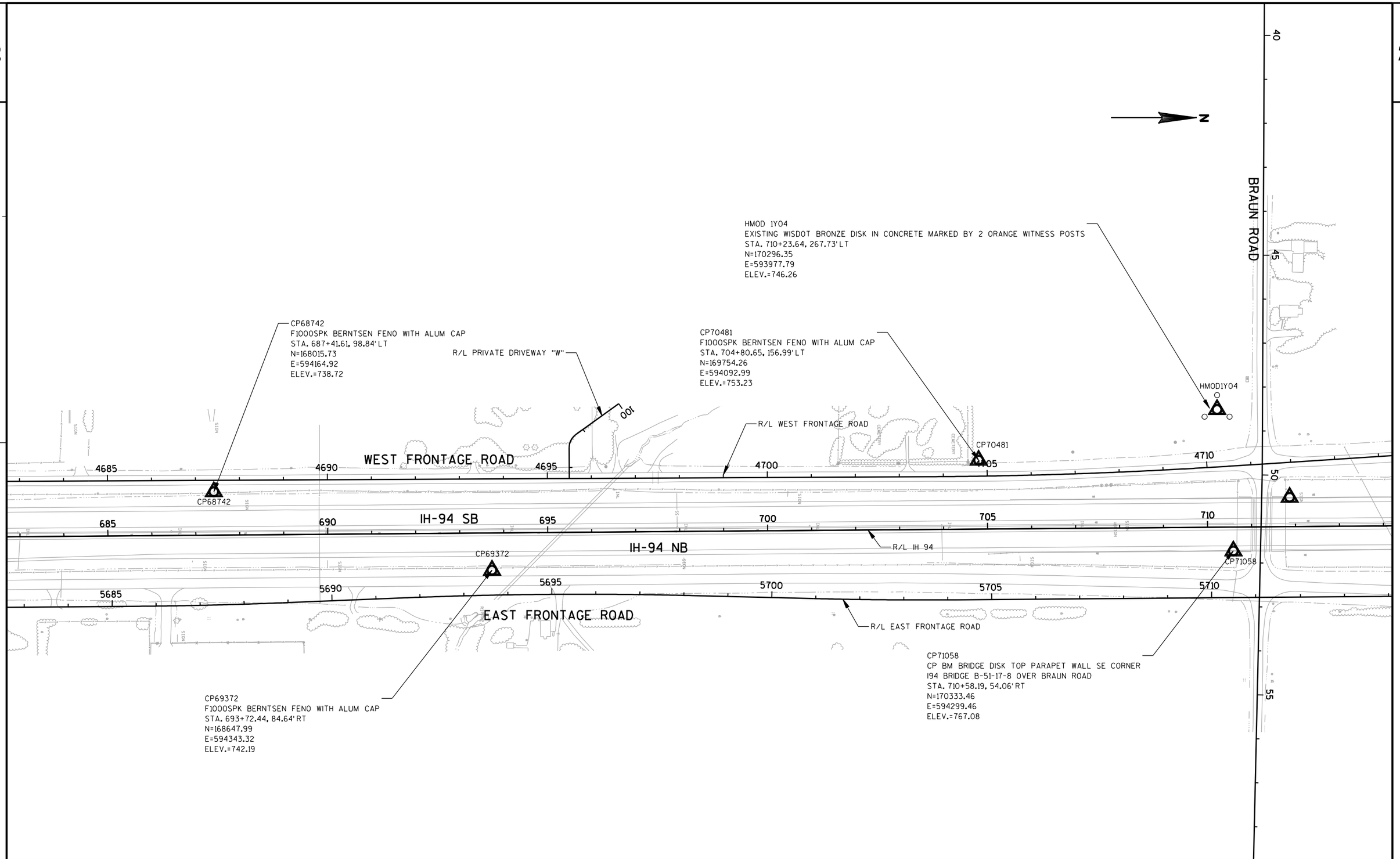
EAST FRONTAGE ROAD

R/L EAST FRONTAGE ROAD

PROJECT NO: 1030-24-77	HWY: IH 94	COUNTY: RACINE	ALIGNMENT LAYOUT: EAST FRONTAGE ROAD - SURVEY CONTROL	SHEET 73	E

FILE NAME : z:\racine\cadds\12\12e\cds\027204_AD.dgn PLOT DATE : 1/10/2017 PLOT BY : tony.baciak PLOT NAME : PLOT SCALE : 1:200

WISDOT/CADDS SHEET 42



PROJECT NO: 1030-24-77	HWY: IH 94	COUNTY: RACINE	ALIGNMENT LAYOUT: EAST FRONTAGE ROAD - SURVEY CONTROL	SHEET 74 E

2 2

BRAUN ROAD

CP71187
CP BM BRIDGE DISK TOP PARAPET WALL NW CORNER
194 BRIDGE B-51-17-8 OVER BRAUN ROAD
STA. 711+86.89, 66.94' LT
N=170461.19
E=594177.44
ELEV.=767.07

R/L WEST FRONTAGE ROAD

WEST FRONTAGE ROAD

IH-94 SB

IH-94 NB

R/L IH 94

EAST FRONTAGE ROAD

R/L EAST FRONTAGE ROAD

R/L BRAUN ROAD

CP72663
CP BM TOP SE BOLT E LEG SIGN POST BASE
CIS/EXIT 335 SIGN EAST SIDE NM 194
STA. 726+63.11, 84.17' RT
N=171941.97
E=594263.97
ELEV.=745.34

CP72779
F1000SPK BERNTSEN FENO WITH ALUM CAP
STA. 727+78.58, 207.70' RT
N=172065.73
E=594379.21
ELEV.=742.68

CP73787
F1000SPK BERNTSEN FENO WITH ALUM CAP
STA. 737+87.50, 214.57' RT
N=173072.55
E=594316.04
ELEV.=742.16

PROJECT NO: 1030-24-77	HWY: IH 94	COUNTY: RACINE	ALIGNMENT LAYOUT: EAST FRONTAGE ROAD - SURVEY CONTROL	SHEET 75	E

FILE NAME : z:\racine\cadds\12\12e\cds\027206_AD.dgn PLOT DATE : 1/10/2017 PLOT BY : tony.baciak PLOT NAME : PLOT SCALE : 1:200

WISDOT/CADDS SHEET 42

1030-24-77

Line	Item	Item Description	Unit	Total	Qty
0002	108.4400	CPM Progress Schedule	EACH	0.200	0.200
0004	201.0105	Clearing	STA	33.000	33.000
0006	201.0120	Clearing	ID	90.000	90.000
0008	201.0205	Grubbing	STA	33.000	33.000
0010	201.0220	Grubbing	ID	90.000	90.000
0012	203.0100	Removing Small Pipe Culverts	EACH	12.000	12.000
0032	204.0170	Removing Fence **P**	LF	3,485.000	3,485.000
0034	204.0180	Removing Delineators and Markers	EACH	4.000	4.000
0042	204.0220	Removing Inlets	EACH	9.000	9.000
0058	204.0245	Removing Storm Sewer (size) 012. 30-Inch	LF	80.000	80.000
0062	204.0280	Sealing Pipes	EACH	2.000	2.000
0068	204.9090.S	Removing (item description) 002. Draintile	LF	500.000	500.000
0072	205.0100	Excavation Common	CY	58,732.000	58,732.000
0074	208.1100	Select Borrow	CY	14,163.000	14,163.000
0076	209.2100	Backfill Granular Grade 2	CY	210.000	210.000
0080	213.0100	Finishing Roadway (project) 024. 1030-24-77	EACH	1.000	1.000
0094	305.0110	Base Aggregate Dense 3/4-Inch	TON	2,310.000	2,310.000
0096	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	24,745.000	24,745.000
0098	311.0110	Breaker Run	TON	1,850.000	1,850.000
0100	440.4410	Incentive IRI Ride	DOL	4,964.000	4,964.000
0102	450.4000	HMA Cold Weather Paving	TON	2,060.000	2,060.000
0104	455.0605	Tack Coat	GAL	1,300.000	1,300.000
0106	460.2000	Incentive Density HMA Pavement	DOL	5,270.000	5,270.000
0108	460.5223	HMA Pavement 3 LT 58-28 S	TON	4,860.000	4,860.000
0110	460.5224	HMA Pavement 4 LT 58-28 S	TON	3,365.000	3,365.000
0116	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	51.000	51.000
0120	465.0315	Asphaltic Flumes	SY	82.000	82.000
0122	495.1000.S	Cold patch	TON	20.000	20.000
0140	520.3318	Culvert Pipe Class III-A 18-Inch	LF	84.000	84.000
0146	520.4118	Culvert Pipe Class IV 18-Inch	LF	73.000	73.000
0148	520.4124	Culvert Pipe Class IV 24-Inch	LF	29.000	29.000
0152	520.8000	Concrete Collars for Pipe	EACH	3.000	3.000
0160	521.1618	Apron Endwalls for Culvert Pipe Sloped Side Drains Steel 18-Inch 10 to 1	EACH	8.000	8.000
0162	521.1624	Apron Endwalls for Culvert Pipe Sloped Side Drains Steel 24-Inch 10 to 1	EACH	2.000	2.000
0168	522.0124	Culvert Pipe Reinforced Concrete Class III 24-Inch	LF	77.000	77.000
0170	522.0130	Culvert Pipe Reinforced Concrete Class III 30-Inch	LF	57.000	57.000
0176	522.0324	Culvert Pipe Reinforced Concrete Class IV 24-Inch	LF	72.000	72.000
0184	522.1018	Apron Endwalls for Culvert Pipe Reinforced Concrete	EACH	2.000	2.000

Line	Item	Item Description	Unit	Total	Qty
		18-Inch			
0186	522.1024	Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	EACH	7.000	7.000
0188	522.1030	Apron Endwalls for Culvert Pipe Reinforced Concrete 30-Inch	EACH	2.000	2.000
0190	522.1042	Apron Endwalls for Culvert Pipe Reinforced Concrete 42-Inch	EACH	1.000	1.000
0212	601.0553	Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type D **P**	LF	1,945.000	1,945.000
0222	606.0200	Riprap Medium	CY	75.000	75.000
0228	608.0318	Storm Sewer Pipe Reinforced Concrete Class III 18-Inch	LF	71.000	71.000
0230	608.0324	Storm Sewer Pipe Reinforced Concrete Class III 24-Inch	LF	570.000	570.000
0232	608.0330	Storm Sewer Pipe Reinforced Concrete Class III 30-Inch	LF	154.000	154.000
0234	608.0342	Storm Sewer Pipe Reinforced Concrete Class III 42-Inch	LF	522.000	522.000
0236	608.0348	Storm Sewer Pipe Reinforced Concrete Class III 48-Inch	LF	272.000	272.000
0246	608.0512	Storm Sewer Pipe Reinforced Concrete Class V 12-Inch	LF	625.000	625.000
0254	611.0535	Manhole Covers Type J-Special	EACH	16.000	16.000
0256	611.0627	Inlet Covers Type HM	EACH	7.000	7.000
0258	611.0642	Inlet Covers Type MS	EACH	3.000	3.000
0260	611.2004	Manholes 4-FT Diameter	EACH	3.000	3.000
0262	611.2005	Manholes 5-FT Diameter	EACH	4.000	4.000
0264	611.2006	Manholes 6-FT Diameter	EACH	1.000	1.000
0266	611.2007	Manholes 7-FT Diameter	EACH	2.000	2.000
0268	611.2008	Manholes 8-FT Diameter	EACH	2.000	2.000
0270	611.3230	Inlets 2x3-FT	EACH	1.000	1.000
0272	611.3901	Inlets Median 1 Grate	EACH	1.000	1.000
0274	611.3902	Inlets Median 2 Grate	EACH	1.000	1.000
0280	612.0106	Pipe Underdrain 6-Inch	LF	1,480.000	1,480.000
0282	612.0108	Pipe Underdrain 8-Inch	LF	200.000	200.000
0284	612.0110	Pipe Underdrain 10-Inch	LF	200.000	200.000
0286	612.0112	Pipe Underdrain 12-Inch	LF	200.000	200.000
0288	612.0206	Pipe Underdrain Unperforated 6-Inch	LF	30.000	30.000
0290	612.0700	Drain Tile Exploration	LF	500.000	500.000
0292	612.0806	Apron Endwalls for Underdrain Reinforced Concrete 6-Inch	EACH	3.000	3.000
0300	614.0920	Salvaged Rail **P**	LF	380.000	380.000
0302	614.0925	Salvaged Guardrail End Treatments **P**	EACH	2.000	2.000

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Line	Item	Item Description	Unit	Total	Qty
0304	614.2300	MGS Guardrail 3 **P**	LF	225.000	225.000
0308	614.2610	MGS Guardrail Terminal EAT **P**	EACH	2.000	2.000
0310	616.0100	Fence Woven Wire (height) 001. 4-FT	LF	3,215.000	3,215.000
0312	616.0700.S	Fence Safety	LF	805.000	805.000
0314	618.0100	Maintenance And Repair of Haul Roads (project) 005. 1030-24-77	EACH	1.000	1.000
0326	619.1000	Mobilization	EACH	0.200	0.200
0330	623.0200	Dust Control Surface Treatment	SY	30,500.000	30,500.000
0332	624.0100	Water	MGAL	435.000	435.000
0334	625.0500	Salvaged Topsoil	SY	61,900.000	61,900.000
0336	627.0200	Mulching	SY	38,820.000	38,820.000
0338	628.1504	Silt Fence	LF	5,175.000	5,175.000
0340	628.1520	Silt Fence Maintenance	LF	5,175.000	5,175.000
0342	628.1905	Mobilizations Erosion Control	EACH	4.000	4.000
0344	628.1910	Mobilizations Emergency Erosion Control	EACH	4.000	4.000
0346	628.2004	Erosion Mat Class I Type B	SY	12,480.000	12,480.000
0348	628.2008	Erosion Mat Urban Class I Type B	SY	13,750.000	13,750.000
0350	628.6510	Soil Stabilizer Type B	ACRE	6.400	6.400
0352	628.7005	Inlet Protection Type A	EACH	10.000	10.000
0354	628.7010	Inlet Protection Type B	EACH	5.000	5.000
0356	628.7015	Inlet Protection Type C	EACH	9.000	9.000
0360	628.7504	Temporary Ditch Checks	LF	575.000	575.000
0362	628.7555	Culvert Pipe Checks	EACH	40.000	40.000
0364	628.7560	Tracking Pads	EACH	2.000	2.000
0366	628.7570	Rock Bags	EACH	105.000	105.000
0368	630.0140	Seeding Mixture No. 40	LB	60.000	60.000
0370	630.0200	Seeding Temporary	LB	2,100.000	2,100.000
0372	633.0100	Delineator Posts Steel	EACH	7.000	7.000
0374	633.0500	Delineator Reflectors	EACH	14.000	14.000
0376	633.5200	Markers Culvert End	EACH	12.000	12.000
0380	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	11.000	11.000
0382	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	7.000	7.000
0386	634.0814	Posts Tubular Steel 2x2-Inch X 14-FT	EACH	1.000	1.000
0388	637.2210	Signs Type II Reflective H	SF	49.800	49.800
0392	637.2230	Signs Type II Reflective F	SF	48.000	48.000
0394	638.2102	Moving Signs Type II	EACH	8.000	8.000
0396	638.2602	Removing Signs Type II	EACH	16.000	16.000
0398	638.3000	Removing Small Sign Supports	EACH	11.000	11.000
0400	643.0100	Traffic Control (project) 024. 1030-24-77	EACH	1.000	1.000
0412	643.0300	Traffic Control Drums	DAY	150.000	150.000

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Line	Item	Item Description	Unit	Total	Qty
0414	643.0420	Traffic Control Barricades Type III	DAY	1,970.000	1,970.000
0416	643.0705	Traffic Control Warning Lights Type A	DAY	3,935.000	3,935.000
0418	643.0715	Traffic Control Warning Lights Type C	DAY	35.000	35.000
0420	643.0800	Traffic Control Arrow Boards	DAY	10.000	10.000
0422	643.0900	Traffic Control Signs	DAY	3,060.000	3,060.000
0424	643.0920	Traffic Control Covering Signs Type II	EACH	10.000	10.000
0426	643.1000	Traffic Control Signs Fixed Message	SF	91.500	91.500
0428	643.1050	Traffic Control Signs PCMS	DAY	30.000	30.000
0436	645.0111	Geotextile Type DF Schedule A	SY	711.000	711.000
0440	645.0130	Geotextile Type R	SY	235.000	235.000
0442	645.0135	Geotextile Type SR	SY	1,680.000	1,680.000
0444	645.0220	Geogrid Type SR	SY	37,995.000	37,995.000
0446	646.0106	Pavement Marking Epoxy 4-Inch	LF	5,877.000	5,877.000
0448	646.0805.S	Pavement Marking Outfall	EACH	3.000	3.000
0450	646.2304.S	Pavement Marking Grooved Wet Reflective Epoxy 4-Inch	LF	13,067.000	13,067.000
0462	647.0566	Pavement Marking Stop Line Epoxy 18-Inch	LF	98.000	98.000
0468	648.0100	Locating No-Passing Zones	MI	1.240	1.240
0470	690.0150	Sawing Asphalt	LF	320.000	320.000
0474	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	280.000	280.000
0476	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	300.000	300.000
0478	SPV.0030	Special 001. Fertilizer Type B, Special	CWT	44.000	44.000
0484	SPV.0060	Special 011. Remove and Reset Mailbox	EACH	1.000	1.000
0486	SPV.0060	Special 088. Field Facilities Office Space	EACH	0.200	0.200
0494	SPV.0075	Special 025. Pavement Cleanup Project 1030-24-77	HRS	24.000	24.000
0506	SPV.0085	Special 002. Seeding Mixture No. 30, Special	LB	2,010.000	2,010.000
0512	SPV.0090	Special 084. Heavy Duty Silt Fence	LF	1,055.000	1,055.000
0514	SPV.0090	Special 085. Temporary Ditch Check Rock Bags Single Layer	LF	150.000	150.000
0516	SPV.0090	Special 086. Temporary Ditch Check Rock Bags Double Layer	LF	150.000	150.000
0518	SPV.0105	Special 024. Survey Project 1030-24-77	LS	1.000	1.000
0536	SPV.0195	Special 006. Select Subbase	TON	16,250.000	16,250.000
0538	SPV.0200	Special 002. Manholes 4-FT Diameter Special	VF	60.000	60.000

CPM PROGRESS SCHEDULE

CATEGORY	LOCATION	108.4400 CPM PROGRESS SCHEDULE EACH
1000	EAST FRONTAGE ROAD (1030-24-77)	0.2
	TOTAL	0.2

REMOVING SMALL PIPE CULVERT

CATEGORY	STATION	SIZE INCH	LENGTH FEET	TYPE	203.0100 REMOVING SMALL PIPE CULVERTS EACH
1000	EAST FRONTAGE ROAD				
	5672+75	18	64	CPCM	1
	5673+85	18	51	CPCM	1
	5683+69	18	30	CPCM	1
	5683+84	24	63	CPCM	1
	5686+24	24	44	CPCM	1
	5690+45	24	34	CPCM	1
	5710+52	24	67	CPCM	1
	3711+09	24	82	CPCM	1
	3714+75	30	78	CPCM	1
	3720+41	24	45	CPRC	1
	3723+48	18	44	CPCM	1
	3725+74	24	33	CPCM	1
	TOTAL				12

CLEARING AND GRUBBING

CATEGORY	STATION	LOCATION	201.0105 CLEARING STA	201.0120 CLEARING I.D.	201.0205 GRUBBING STA	201.0220 GRUBBING I.D.
1000	EAST FRONTAGE ROAD					
	5665+00 - 5683+00	RT/LT	18	--	18	--
	5686+35	RT	--	3	--	3
	5686+35	RT	--	3	--	3
	5686+36	RT	--	3	--	3
	5686+36	RT	--	3	--	3
	5689+50 - 5692+00	RT	3	--	3	--
	5696+00 - 5697+00	RT	1	--	1	--
	5704+00 - 5707+00	RT	3	--	3	--
	3712+75 - 3714+75	RT	2	--	2	--
	3721+00 - 3722+00	RT	1	--	1	--
	3722+75 - 3727+25	RT	5	--	5	--
	3729+00 - 3730+00	RT	1	--	1	--
	3723+20	RT	--	5	--	5
	3723+38	RT	--	4	--	4
	3724+50	RT	--	12	--	12
	3725+50	RT	--	17	--	17
	3727+41	RT	--	22	--	22
	3727+42	RT	--	18	--	18
	TOTAL		33	90	33	90

REMOVING FENCE

CATEGORY	STATION	LOCATION	204.0170 REMOVING FENCE LF
1000	EAST FRONTAGE ROAD		
	5666+40 - 5690+00	LT	2,360
	3721+75 - 3730+00	LT	825
	5683+34 - 5685+83	RT	300
	TOTAL		3,485

REMOVING DELINEATORS AND MARKERS

CATEGORY	STATION	204.0180 REMOVING DELINEATORS AND MARKERS EACH	COMMENTS
1000	EAST FRONTAGE ROAD		
	5664+50 - 3730+00	4	WOOD POST
	TOTAL	4	

3

REMOVING INLETS

CATEGORY	STATION	LOCATION	204.0220 REMOVING INLETS EACH
1000	EAST FRONTAGE ROAD		
	5669+50	LT	1
	5672+40	LT	1
	5673+85	LT	1
	5675+40	LT	1
	5677+92	LT	1
	5680+42	LT	1
	5682+88	LT	1
	5689+75	LT	1
	5694+48	LT	1
	TOTAL		9

REMOVING STORM SEWER

CATEGORY	STATION	204.0245.012 REMOVING STORM SEWER 30-INCH LF
1000	EAST FRONTAGE ROAD	
	5689+73	80
	TOTAL	80

3

REMOVING DRAIN TILE

CATEGORY	STATION	LOCATION	204.9090.S.002 REMOVING DRAIN TILE LF
1000	EAST FRONTAGE ROAD		
	UNDISTRIBUTED		500
	TOTAL		500

GRANULAR BACKFILL ITEMS

CATEGORY	STATION	*209.2100 GRANULAR BACKFILL GRADE 2 CY
1000	EAST FRONTAGE ROAD	
	5664+50 - 3730+00	140
	UNDISTRIBUTED	70
	TOTAL	210

*GRANULAR BACKFILL USED TO BACKFILL HOLES RESULTING FROM STRUCTURE REMOVAL. SEE GENERAL NOTES FOR ADDITIONAL INFORMATION.

FINISHING ROADWAY PROJECT

CATEGORY	LOCATION	213.0100.024 FINISHING ROADWAY EACH
1000	EAST FRONTAGE ROAD (1030-24-77)	1
	TOTAL	1

MAILBOX ITEMS

CATEGORY	LOCATION	SPV.0060.011 REMOVE AND RESET MAILBOX EACH
1000	EAST FRONTAGE ROAD (1030-24-77)	1
	TOTAL	1

3

EARTHWORK

CATEGORY	ROADWAY	FROM / TO STATION	205.0100 EXCAVATION COMMON CY		SALVAGED / UNUSABLE PAVEMENT MATERIAL (4)	AVAILABLE MATERIAL (5)	REDUCED EBS IN FILL (6)	EXPANDED EBS BACKFILL (7)	208.1100 SELECT BORROW CY	UNEXPANDED FILL (8)	EXPANDED FILL (9)	MASS ORDINATE +/- (10)	WASTE (11)	ESTIMATED DISPOSAL AREA OUTSIDE 1:1 SLOPE (12)
			CUT (2)	EBS EXCAVATION (3)			Factor 0.80	Factor 1.30			FACTOR 1.20			
1000														
	EAST FRONTAGE ROAD	5664+50 to 3730+00	47,284	3,911	3,347	43,937	3,129	5,084	5,084	7,327	8,792	35,144	35,144	1,032
	BRAUN ROAD	47+50 to 50+65	559	112	216	344	89	145	145	17	20	323	323	0
	EBS IN DITCH FILLS		0	6,766	0	0	5,413	8,804	8,804	0	0	0	6,766	0
	EXISTING PAVEMENT EBS (13)		0	100	100	0	0	130	130	0	0	0	100	0
	GRAND TOTALS		47,843	10,889	3,663	44,280	8,631	14,163	14,163	7,344	8,813	35,468	42,334	1,032
		TOTAL EXCAVATION COMMON		58,732										

1) COMMON EXCAVATION IS THE SUM OF THE CUT AND EBS EXCAVATION COLUMNS. ITEM NUMBER 205.0100
2) SALVAGED / UNUSABLE PAVEMENT MATERIAL IS INCLUDED IN CUT UNLESS EXISTING PAVEMENT IS BELOW SUBGRADE.
3) UNDISTRIBUTED EBS TO BE BACKFILLED WITH SELECT BORROW. EBS TO BE WASTED OUTSIDE THE 1:1 SLOPES (SEE NOTE 6) OR HAULED OFF-SITE.
4) EXISTING PAVEMENT VOLUME (CY), NOT AVAILABLE FOR FILL. ALL SALVAGED / UNUSABLE PAVEMENT MATERIAL EITHER BELOW OR ABOVE SUBGRADE IS SHOWN WITHIN THE ROADWAY ROW.
5) AVAILABLE MATERIAL = CUT - SALVAGED/UNUSABLE PAVEMENT MATERIAL.
6) REDUCED EBS IN FILL - FOR INFORMATION ONLY. EXCAVATED EBS MATERIALS ARE UNUSABLE IN FILLS OUTSIDE THE 1:1 SLOPE BETWEEN IH 94 AND THE FRONTAGE ROAD. EBS MATERIAL CAN BE USED OUTSIDE THE 1:1 SLOPE ON THE NON-IH 94 SIDE OF THE FRONTAGE ROAD.
7) EXPANDED EBS BACKFILL - THIS IS TO BE FILLED WITH SELECT BORROW MATERIAL. EBS BACKFILL FACTOR = 1.3 ITEM NUMBER 208.1100
8) UNEXPANDED FILL - FILL FROM END AREA EARTHWORK VOLUMES
9) EXPANDED FILL FACTOR = 1.20 (EXPANDED FILL DOES NOT CONTAIN EBS)
10) MASS ORDINATE = AVAILABLE MATERIAL - EXPANDED FILL. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE STAGE. MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE STAGE.
11) WASTE = MASS ORDINATE IF POSITIVE (FOR INFORMATION ONLY - BORROW = MASS ORDINATE IF NEGATIVE)
12) THE ESTIMATED AREA OUTSIDE THE 1:1 FILL SLOPES = LOCATION WHERE THE EBS AND CUT MATERIALS CAN BE WASTED (USED AT CONTRACTORS DISCRETION). AREA IS PART OF THE FILL NUMBERS.
13) EXISTING PAVEMENT EBS IS INCLUDED IN THE TOTAL COMMON EXCAVATION; SELECT BORROW IS USED TO FILL TO THE SUBGRADE.

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BASE AGGREGATE ITEMS

CATEGORY	STATION	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	305.0120 BASE AGGREGATE DENSE 1-1/4 INCH TON	311.0110 BREAKER RUN TON	**SPV.0195.006 SELECT SUBBASE TON	**645.0220 GEOGRID TYPE SR SY	645.0135 GEOTEXTILE TYPE SR SY
1000	EAST FRONTAGE ROAD						
	5664+50 - 5711+09	1,300	15,820	--	10,740	23,000	0
	3711+07 - 3730+00	600	6,130	--	4,370	9,355	0
	DRIVEWAYS	100	--	--	--	--	--
	RELIEF TRENCHES	--	--	--	60	--	--
	BRAUN ROAD						
	52+00 - 54+50	100	455	--	540	1,145	--
	TEMPORARY ACCESS						
	PROJECT LIMITS	--	90	--	540	1,145	--
	UNDISTRIBUTED	210	2,250	1,850	--	3,350	1,680
	TOTAL	2,310	24,745	1,850	16,250	37,995	1,680

** QUANTITY BASED ON PROJECT LENGTH. USAGE TO BE AUTHORIZED BY ENGINEER OR SOILS ENGINEER.
SEE GENERAL NOTES FOR ADDITIONAL INFORMATION.

INCENTIVE IRI RIDE

CATEGORY	ROADWAY	LOCATION	440.4410 INCENTIVE IRI RIDE DOL
1000	IH-94	EAST FRONTAGE ROAD	4,964
	TOTAL		4,964

ASPHALTIC DRIVEWAYS

CATEGORY	STATION	LOCATION	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON
1000	EAST FRONTAGE ROAD		
	5683+15	RT	2
	5683+75	RT	2
	5686+22	RT	26
	5690+00	RT	2
	5695+19	RT	3
	3720+40	RT	2
	3723+50	RT	2
	3725+74	RT	12
	TOTAL		51

ASPHALTIC ITEMS

CATEGORY	STATION	450.4000 HMA COLD WEATHER PAVING TON	455.0605 TACK COAT GAL	460.5223 HMA PAVEMENT 3 LT 58-28 S TON	460.5224 HMA PAVEMENT 4 LT 58-28 S TON	460.2000 INCENTIVE DENSITY HMA PAVEMENT DOL	465.0315 ASPHALTIC FLUMES SY	495.1000.S COLD PATCH TON
1000	EAST FRONTAGE ROAD							
	5664+50 - 3730+00	1,980	1,250	4,675	3,235	5,070	70	--
	BRAUN ROAD							
	52+00 - 54+50	80	50	185	130	200	12	--
	UNDISTRIBUTED	--	--	--	--	--	--	20
	TOTAL	2,060	1,300	4,860	3,365	5,270	82	20

CURB AND GUTTER ITEMS

CATEGORY	STATION	LOCATION	601.0553 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D LF
1000	EAST FRONTAGE ROAD		
	5689+70 - 5692+50	LT	280
	5690+95 5695+50	RT	455
	5706+50 5710+45	LT	395
	3711+87 - 3718+50	LT	663
	BRAUN ROAD		
	53+01 - 53+59	RT	93
	52+97 - 53+35	LT	59
	TOTAL		1,945

DRIVEWAY CULVERT ITEMS

CATEGORY	STATION	OFFSET	SLOPE	DRIVEWAY WIDTH	ELEVATION	520.3318 CULVERT PIPE CLASS III-A 18-INCH LF	520.4118 CULVERT PIPE CLASS IV 18-INCH LF	520.4124 CULVERT PIPE CLASS IV 24-INCH LF	521.1618 APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS STEEL 10 TO 1 18-INCH EACH	521.1624 APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS STEEL 10 TO 1 24-INCH EACH	STEEL THICKNESS INCHES
1000	EAST FRONTAGE ROAD										
	5683+15	41.0' RT	0.30%	16.0	738.50	--	31	--	2	--	0.064
	5686+22	40.0' RT	1.50%	23.0	738.22	--	42	--	2	--	0.064
	5690+00	42.0' RT	0.50%	16.0	734.05	--	--	29	--	2	0.064
	3723+50	38.0' RT	0.50%	11.0	746.30	43	--	--	2	--	0.064
	3725+75	39.0' RT	1.70%	12.0	744.88	41	--	--	2	--	0.064
	TOTALS					84	73	29	8	2	

NOTE
1) PIPE OFFSETS AND ELEVATIONS ARE TO THE CENTERLINE AND INVERT OF PIPE.
2) PIPE LENGTH IS FROM END OF PIPE TO END OF PIPE AND DOES NOT INCLUDE LENGTH OF APRON ENDWALL.

CROSS CULVERT ITEMS

CATEGORY	STATION	INLET END OFFSET	INLET END ELEV	INLET END STATION	DISCHARGE END OFFSET	DISCHARGE END ELEV	DISCHARGE END STATION	SLOPE	522.0124 CULVERT PIPE REINFORCED CONCRETE CLASS III 24-INCH LF	522.0130 CULVERT PIPE REINFORCED CONCRETE CLASS III 30-INCH LF	522.0324 CULVERT PIPE REINFORCED CONCRETE CLASS IV 24-INCH LF	522.1024* APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH EACH	522.1030 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 30-INCH EACH	633.5200* MARKERS CULVERT END EACH
1000	EAST FRONTAGE ROAD													
	5672+41	28.0' LT	733.61	5672+40	29.0' RT	733.41	5672+40	0.35%	--	57	--	--	2	2
	5688+24	24.0' LT	734.98	5688+04	29.0' RT	734.80	5688+46	0.18%	--	--	72	2	--	2
	3730+00	37.0' LT	740.32	3730+00	39.0' RT	739.78	3730+00	0.60%	77	--	--	2	--	2
	TOTALS								77	57	72	4	2	6

NOTES
1) STATION OFFSETS SHOWN ARE TO THE CENTER OF INLET STRUCTURES OR END OF PIPE (NOT THE APRON END OF ENDWALLS).
2) PIPE LENGTH IS FROM END OF PIPE TO END OF PIPE AND DOES NOT INCLUDE LENGTH OF ENDWALL.

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

3

DRAIN TILE

CATEGORY	LOCATION	SPV.0200.002 MANHOLES 4-FT DIAMETER VF EACH	611.0535* MANHOLE COVERS TYPE J-SPECIAL EACH	612.0106* PIPE UNDERDRAIN 6-INCH LF	612.0108 PIPE UNDERDRAIN 8-INCH LF	612.0110 PIPE UNDERDRAIN 10-INCH LF	612.0112 PIPE UNDERDRAIN 12-INCH LF	608.0512 STORM SEWER PIPE REINFORCED CONCRETE CLASS V 12-INCH LF	612.0700 DRAIN TILE EXPLORATION LF
1000	UNDISTRIBUTED	60	10	200	200	200	200	625	500
	TOTAL	60	10	200	200	200	200	625	500

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

PIPE UNDERDRAIN ITEMS

CATEGORY	ROADWAY	STATION - STATION	OFFSET	612.0106* PIPE UNDERDRAIN 6-INCH LF	612.0206 PIPE UNDERDRAIN UNPERFORATED LF	612.0806 APRON ENDWALLS FOR UNDERDRAIN REINFORCED CONCRETE 6-INCH EACH	645.0111 GEOTEXTILE TYPE DF SCHEDULE A SY	646.0805.S PAVEMENT MARKING OUTFALL EACH
1000	EAST FRONTAGE ROAD							
		5689+50	LT	--	10	1	--	1
		5689+50 - 5691+00	LT	150	--	--	83	--
		5690+50	RT	--	10	1	--	1
		5690+50 - 5692+50	RT	200	--	--	111	--
		5693+00	RT	--	10	1	--	1
		5693+00 - 5696+00	RT	300	--	--	167	--
		5706+50 - 5707+90	LT	140	--	--	78	--
		5708+40 - 5710+30	LT	190	--	--	106	--
		3711+50 - 3712+50	LT	100	--	--	56	--
		3712+50 - 3714+50	LT	200	--	--	111	--
		TOTALS (I.D. 1030-24-77)		1,280	30	3	711	3

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

STORM SEWER ITEMS

CATEGORY	STRUCTURE NUMBER	STATION	OFFSET FT		611.2004 MANHOLES 4-FT DIA EACH	611.2005 MANHOLES 5-FT DIA EACH	611.2006 MANHOLES 6-FT DIA EACH	611.2007 MANHOLES 7-FT DIA EACH	611.2008 MANHOLES 8-FT DIA EACH	611.3230 INLETS 2x3-FT EACH	611.3901 INLETS MEDIAN 1 GRATE EACH	611.3902 INLETS MEDIAN 2 GRATE EACH	611.0535 MANHOLE COVERS TYPE JS EACH	611.0627 INLET COVERS TYPE HM EACH	611.0642 INLET COVERS TYPE MS EACH	RIM OR FLANGE ELEV	STR DEPTH FT	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE
1000	12 EAST FRONTAGE RAOD																					
	172A	5673+86	69.00	LT	--	--	--	--	--	--	--	--	--	--	--	--	--	172A	501	734.38	734.22	1.00%
	501	5673+86	53.00	LT	--	--	--	--	--	--	--	--	--	--	--	--	--	501	OUTFALL	734.22	--	--
	506	5689+75	74.20	LT	--	1	--	--	--	--	--	--	1	--	--	738.63	3.05	506	507	734.50	734.18	0.34%
	507	5690+69	73.70	LT	--	--	--	1	--	--	--	--	1	--	--	740.41	5.15	507	509	734.18	732.75	0.64%
	508	5693+50	35.00	LT	--	--	--	--	--	--	--	1	--	--	2	739.11	10.36	508	509	734.45	734.25	0.33%
	509	5692+90	38.00	LT	--	--	--	--	1	--	--	--	1	--	--	738.53	4.70	509	509A	732.75	732.65	0.21%
	509A	5692+96	9.93	RT	--	--	--	--	--	--	--	--	--	--	--	--	--	509A	EXISTING	732.65	--	
	509B	5692+91	46.00	LT	--	--	--	--	--	--	--	--	--	--	--	--	--	509B	509	736.12	735.25	10.88%
	511	5707+90	19.00	LT	--	1	--	--	--	--	--	--	--	1	--	751.22	4.39	511	513	746.00	744.10	0.79%
	511A	5707+90	30.00	LT	--	--	--	--	--	--	1	--	--	--	1	751.32	4.71	511A	511	746.61	746.50	1.00%
	512	5710+30	41.91	RT	--	--	--	--	--	--	--	--	--	--	--	--	--	512	513	745.22	744.10	1.84%
	513A	5710+30	63.04	LT	--	--	--	--	--	--	--	--	--	--	--	--	--	513A	513	746.46	744.60	4.23%
	513	5710+30	19.00	LT	--	1	--	--	--	--	--	--	--	1	--	749.42	4.49	513	519	744.10	742.30	2.43%
	519	5711+04	29.00	LT	--	--	--	--	1	--	--	--	1	--	--	748.34	6.46	519	603A	740.80	740.42	0.20%
	514	3714+00	49.17	RT	--	--	--	--	--	--	--	--	--	--	--	--	--	514	516	741.50	741.40	0.16%
	515A	3714+43	46.28	LT	--	--	--	--	--	--	--	--	--	--	--	--	--	515A	515	744.64	743.20	2.40%
	515	3713+89	19.17	LT	1	--	--	--	--	--	--	--	--	1	--	748.44	4.41	515	516	743.20	742.90	1.30%
	516	3713+70	6.01	LT	--	--	1	--	--	--	--	--	1	--	--	748.75	6.27	516	518	741.40	741.10	0.25%
	517	3712+50	19.18	LT	--	1	--	--	--	--	--	--	--	1	--	748.00	4.37	517	518	742.80	742.60	1.54%
	518	3712+50	6.04	LT	--	--	--	1	--	--	--	--	1	--	--	748.40	6.22	518	519	741.10	740.80	0.20%
	517A	3712+40	19.36	LT	1	--	--	--	--	--	--	--	--	1	--	748.03	4.30	517A	517	742.90	742.80	1.11%
	517B	3712+60	19.26	LT	1	--	--	--	--	--	--	--	--	1	--	747.99	4.26	517B	517	742.90	742.80	1.00%
	520A	3714+43	46.28	LT	--	--	--	--	--	--	--	--	--	--	--	--	--	520A	520	744.49	744.00	6.13%
	520	3716+95	19.03	LT	--	--	--	--	--	1	--	--	--	1	--	750.51	5.68	520	521	744.00	743.74	0.41%
	521	3716+95	44.94	RT	--	--	--	--	--	--	--	--	--	--	--	--	--	521	OUTFALL	743.74	--	--
					3	4	1	2	2	1	1	1	6	7	3							

NOTES

1) APRON ENDWALLS: STATIONS AND OFFSETS ARE TO THE APRON END OF ENDWALLS.
2) PIPE LENGTHS ARE MEASURED TO THE CENTER OF STRUCTURES OR TO THE APRON END OF ENDWALLS (INCLUDES LENGTH OF AEW).
3) MANHOLES AND INLETS: RIM ELEVATIONS, STATIONS AND OFFSETS ARE GIVEN AT THE CENTER OF CASTING
4) STRUCTURE DEPTH = RIM ELEVATION - INVERT - CASTING HEIGHT ADJUSTMENT
   CASTING HEIGHT = 0.75 FT FOR J COVERS; 0.5 FT FOR TYPE HM AND S COVERS; 0 FT FOR TYPE MS COVERS
   ADJUSTMENT (RINGS) = 0.33 FT FOR J, HM AND S COVERS; 0 FT FOR TYPE MS COVERS
5) FLAT TOP SLAB WITH CENTERED 24" X 36" RECTANGULAR OPENING REQUIRED ON MANHOLES WITH TYPE HM INLET COVERS

STORM SEWER ITEMS

CATEGORY	STRUCTURE NUMBER	STATION	OFFSET FT		608.0312 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH LF	608.0318 18-INCH LF	608.0324 24-INCH LF	608.0330 30-INCH LF	608.0342 42-INCH LF	608.0348 48-INCH LF	522.1018 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 18-INCH EACH	522.1024 24-INCH EACH	522.1042 42-INCH EACH	520.8000 CONCRETE COLLAR FOR PIPE EACH	633.5200 MARKERS CULVERT END EACH	204.0280 SEALING PIPE EACH	NOTES
1000	12 EAST FRONTAGE RAOD																
	172A	5673+86	69.00	LT	--	16	--	--	--	--	--	--	--	1	--	--	EXTEND LATERAL
	501	5673+86	53.00	LT	--	--	--	--	--	--	1	--	--	--	1	--	
	506	5689+75	74.20	LT	--	--	--	94	--	--	--	--	--	--	--	--	
	507	5690+69	73.70	LT	--	--	--	--	--	224	--	--	--	--	--	--	
	508	5693+50	35.00	LT	--	--	--	60	--	--	--	--	--	--	--	--	SINGLE SLOPE GRATE
	509	5692+90	38.00	LT	--	--	--	--	--	48	--	--	--	--	--	--	
	509A	5692+96	9.93	RT		--	--	--	--	--	--	--	--	1	--	--	
	509B	5692+91	46.00	LT		--	8	--	--	--	--	--	--	--	--	1	SEAL PIPE AT 509B
	511	5707+90	19.00	LT	--	--	240	--	--	--	--	--	--	--	--	--	
	511A	5707+90	30.00	LT	--	11	--	--	--	--	--	--	--	--	--	--	SINGLE SLOPE GRATE
	512	5710+30	41.91	RT		--	61	--	--	--	--	1	--	--	1	--	
	513A	5710+30	63.04	LT		44	--	--	--	--	1	--	--	--	1	--	TO BE REMOVED BY OTHERS UNDER FUTURE PROJECT 1030-24-79
	513	5710+30	19.00	LT	--	--	74	--	--	--	--	--	--	--	--	--	
	519	5711+04	29.00	LT	--	--	--	--	191	--	--	--	--	1	--	--	
	514	3714+00	49.17	RT		--	--	--	63	--	--	--	1	--	1	--	
	515A	3714+43	46.28	LT		--	60	--	--	--	--	1	--	--	1	--	TO BE REMOVED BY OTHERS UNDER FUTURE PROJECT 1030-24-79
	515	3713+89	19.17	LT	--	--	23	--	--	--	--	--	--	--	--	--	
	516	3713+70	6.01	LT	--	--	--	--	119	--	--	--	--	--	--	--	
	517	3712+50	19.18	LT	--	--	13	--	--	--	--	--	--	--	--	--	
	518	3712+50	6.04	LT	--	--	--	--	149	--	--	--	--	--	--	--	
	517A	3712+40	19.36	LT	--	--	9	--	--	--	--	--	--	--	--	--	
	517B	3712+60	19.26	LT	--	--	10	--	--	--	--	--	--	--	--	--	
	520A	3714+43	46.28	LT		--	8	--	--	--	--	--	--	--	--	1	SEAL PIPE AT 520A
	520	3716+95	19.03	LT	--	--	64	--	--	--	--		--	--	--	--	
	521	3716+95	44.94	RT		--	--	--	--	--	--	1	--	--	1	--	
					0	71	570	154	522	272	2	3	1	3	6	2	

NOTES

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3) MANHOLES AND INLETS: RIM ELEVATIONS, STATIONS AND OFFSETS ARE GIVEN AT THE CENTER OF CASTING
4) STRUCTURE DEPTH = RIM ELEVATION - INVERT - CASTING HEIGHT ADJUSTMENT
   CASTING HEIGHT = 0.75 FT FOR J COVERS; 0.5 FT FOR TYPE HM AND S COVERS; 0 FT FOR TYPE MS COVERS
   ADJUSTMENT (RINGS) = 0.33 FT FOR J, HM AND S COVERS; 0 FT FOR TYPE MS COVERS
5) FLAT TOP SLAB WITH CENTERED 24" X 36" RECTANGULAR OPENING REQUIRED ON MANHOLES WITH TYPE HM INLET COVERS

GUARDRAIL ITEMS

CATEGORY	STATION		LOCATION	614.0920 SALVAGED RAIL LF	614.0925 SALVAGED GUARDRAIL END TREATMENTS EACH	614.2300 MGS GUARDRAIL 3 LF	614.2610 MGS GUARDRAIL TERMINAL EAT EACH
1000	EAST FRONTAGE ROAD						
	5667+60	- 5668+10	LT	--	1	--	--
	5668+10	- 5671+90	LT	380	--	--	--
	5671+90	- 5672+40	LT	--	1	--	--
	5691+25	- 5691+75	RT	--	--	--	1
	5691+75	- 5694+00	RT	--	--	225	--
	5694+00	- 5694+50	RT	--	--	--	1
	TOTAL			380	2	225	2

FENCING ITEMS

CATEGORY	STATION		LOCATION	616.0100.001 FENCE WOVEN WIRE 4-FOOT LF
1000	EAST FRONTAGE ROAD			
	5666+40	- 5690+00	LT	2,390
	3721+75	- 3730+00	LT	825
	TOTAL			3,215

FENCE SAFETY

CATEGORY	ROADWAY	616.0700.S FENCE SAFETY LF
1000	EAST FRONTAGE ROAD	
	UNDISTRIBUTED	805
	TOTAL	805

MOBILIZATION

CATEGORY	LOCATION	619.1000 MOBILIZATION EACH
1000	EAST FRONTAGE ROAD (1030-24-77)	0.2
	TOTAL	0.2

MAINTENANCE AND REPAIR OF HAUL ROADS 1030-24-77

CATEGORY	STAGE		618.0100.005 EACH
1000	ALL	IH 94 MAINLINE	1
	TOTAL		1

3

DUST CONTROL SURFACE TREATMENT

CATEGORY	LOCATION	623.0200 DUST CONTROL SURFACE TREATMENT SY
1000	EAST FRONTAGE ROAD	30,500
	TOTAL	30,500

WATER ITEMS

CATEGORY	LOCATION	624.0100 WATER MGAL
1000	EAST FRONTAGE ROAD	435
	TOTAL	435

3

RESTORATION ITEMS

CATEGORY	STATION		LOCATION	625.0500 SALVAGED TOPSOIL SY	627.0200 MULCHING SY	628.6510 SOIL STABILIZER TYPE B ACRE	SPV.0030.001 FERTILIZER TYPE B SPECIAL CWT	SPV.0085.002 SEEDING MIXTURE NO. 30 SPECIAL LB	630.0140 SEEDING MIXTURE NO. 40 LB	630.0200 SEEDING TEMPORARY LB
1000	EAST FRONTAGE ROAD									
	5664+50	- 3730+00	LT & RT	55,200	34,220	--	39	1,572	52	1,650
	BRAUN ROAD									
	52+00	- 54+50	LT & RT	1,050	1,050	--	1	35	--	35
	UNDISTRIBUTED			5,650	3,550	6.4	4	403	8	415
	TOTAL			61,900	38,820	6.4	44	2,010	60	2,100

TRACKING PADS

CATEGORY	STAGE	LOCATION	628.7560 TRACKING PADS EACH
1000	ALL	EAST FRONTAGE ROAD	2
		TOTAL	2

SAW CUTTING ITEMS

CATEGORY	STATION		LOCATION	690.0150 SAWING ASPHALT LF
1000	EAST FRONTAGE ROAD			
	5664+50		LIMIT	34
	5686+22		DWY	23
	3725+74		DWY	9
	3730+00		LIMIT	34
	BRAUN ROAD			
	52+00		LIMIT	32
	54+50		LIMIT	21
	50+50	- 52+00	SS	167
	TOTAL			320

FIELD OFFICE

CATEGORY	LOCATION	SPV.0060.088 FIELD FACILITIES OFFICE SPACE EACH
1000	EAST FRONTAGE ROAD	0.2
	TOTAL	0.2

CONSTRUCTION STAKING

CATEGORY	LOCATION	SPV.0105.024 SURVEY PROJECT LS
1000	EAST FRONTAGE ROAD (1030-24-77)	1
	TOTAL	1

PAVEMENT CLEANUP

CATEGORY	LOCATION	SPV.0075.025 PAVEMENT CLEANUP PROJECT HRS
1000	EAST FRONTAGE ROAD (1030-24-77)	24
	TOTAL	24

3

DELINEATORS

CATEGORY	ROADWAY	LOCATION	STA	TO	STA	633.0500 DELINEATOR REFLECTORS EACH	633.0100 DELINEATOR POSTS STEEL EACH
1000	EAST FRONTAGE ROAD						
		LT - SOUTHBOUND	5666+00	-	5671+00	14	7
		TOTALS (I.D. 1030-24-77)				14	7

TRAFFIC CONTROL (PROJECT)

CATEGORY	LOCATION	643.0100.024 TRAFFIC CONTROL EACH
1000	EAST FRONTAGE ROAD (1030-24-77)	1
	TOTAL	1

3

TRAFFIC CONTROL ITEMS

CATEGORY	LOCATION	STAGE DURATION DAYS	643.0300 TRAFFIC CONTROL DRUMS EACH*	643.0300 DAYS	643.0420 TRAFFIC CONTROL BARRICADES TYPE III EACH*	643.0420 DAYS	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A EACH*	643.0705 DAYS	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C EACH*	643.0715 DAYS	643.0800 TRAFFIC CONTROL ARROW BOARDS EACH*	643.0800 DAYS	643.0900 TRAFFIC CONTROL SIGNS EACH*	643.0900 DAYS	643.1050 TRAFFIC CONTROL SIGNS PCMS EACH*	643.1050 DAYS
1000	EAST FRONTAGE ROAD	137	--	--	6	822	12	1,644	--	--	--	--	10	1,370	--	--
	BRAUN ROAD	137	--	--	7	959	14	1,918	--	--	--	--	10	1,370	--	--
	CTH KR NB ON RAMP	1	59	59	6	6	12	12	16	16	2	2	16	16	--	--
	IH 94 SHOUDLER CLOSURE	3	20	60	--	--	--	--	5	15	2	6	9	27	--	--
	UNDISTRIBUTED		--	31	--	183	--	361	--	4	--	2	--	277	2	30
	TOTAL			150		1,970		3,935		35		10		3,060		30

* FOR INFORMATION ONLY

TRAFFIC CONTROL ITEMS

CATEGORY	LOCATION	STAGE	STATION	OFFSET	643.0920 TRAFFIC CONTROL COVERING SIGNS TYPE II EACH	NO. CYCLES	NO. SIGNS	SIGN MESSAGE
1000	CTH KR WESTBOUND	1	--	RT	1	1	1	NORTH (ARROW)
				RT	1	1	1	EAST FRONTAGE ROAD (ARROW)
	CTH KR EASTBOUND	1	--	RT	1	1	1	ALT WEST I-94 (ARROW)
				RT	1	1	1	EAST FRONTAGE ROAD (ARROW)
	UNDISTRIBUTED				6	1	6	VARIES
	TOTAL (1030-24-77)				10			

TRAFFIC CONTROL SIGNS FIXED MESSAGE

CATEGORY	LOCATION	STAGE	SIGN NO.	SIGN SIZE W x H FT x FT	643.1000 TRAFFIC CONTROL SIGNS FIXED MESSAGE SF
1000	EAST FRONTAGE ROAD	1	1208	8.5' x 3'	25.50
			1209	7.5' x 3.67'	25.50
			1210	7.5' x 3.67'	25.50
			1211	7.5' x 2'	15.00
	TOTAL (1030-24-77)				91.50

3

EROSION CONTROL ITEMS

CATEGORY	STATION	LOCATION	606.0200 RIPRAP MEDIUM CY	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINT LF	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH	628.2004 EROSION MAT CLASS I TYPE B SY	628.2008 EROSION MAT URBAN CLASS I TYPE B SY	628.7005 INLET PROTECTION TYPE A EACH	628.7010 INLET PROTECTION TYPE B EACH	628.7015 INLET PROTECTION TYPE C EACH	628.7504 TEMPORARY DITCH CHECK LF	628.7555 CULVERT PIPE CHECKS EACH	628.7570 ROCK BAGS EACH	645.0130 GEOTEXTILE TYPE R SY	SPV.0090.084 HEAVY DUTY SILT FENCE LF	SPV.0090.085 TEMPORARY DITCH CHECK ROCK BAGS SINGLE LAYER LF	SPV.0090.086 TEMPORARY DITCH CHECK ROCK BAGS DOUBLE LAYER LF
1000	EAST FRONTAGE ROAD																		
	5664+50 - 3730+00	LT	21	3,780	3,780	--	--	4,140	8,240	8	--	7	230	20	51	61	430	--	--
	5664+50 - 3730+00	RT	36	360	360	--	--	5,840	2,760	--	--	--	230	12	17	124	415	--	--
	UNDISTRIBUTED		18	1,035	1,035	4	4	2,500	2,750	2	5	2	115	8	37	50	210	150	150
	TOTALS		75	5,175	5,175	4	4	12,480	13,750	10	5	9	575	40	105	235	1,055	150	150

3

PAVEMENT MARKING

CATEGORY	STATION		646.0106 PAVEMENT MARKING EPOXY 4-INCH YELLOW LF	646.2304.S PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH WHITE LF	647.0566 PAVEMENT MARKING STOP LINE EPOXY 18-INCH LF	648.0100 LOCATING NO-PASSING ZONES MILE	REMARKS
1000	EAST FRONTAGE ROAD					1.24	
	5664+50 -	5710+28	--	4,578	--	--	RIGHT EDGE OF PAVEMENT
	5664+50 -	5710+52	--	4,609	--	--	LEFT EDGE OF PAVEMENT
	5664+50 -	5669+50	1,000	--	--	--	CENTER LINE (DOUBLE)
	5669+50 -	5680+50	1,100	--	--	--	CENTER LINE (NO PASSING-LT)
	5669+50 -	5680+50	275	--	--	--	CENTER LINE (PASSING-RT)
	5680+50 -	5705+00	613	--	--	--	CENTER LINE (PASSING)
	5705+00 -	5710+78	1,156	--	--	--	CENTER LINE (DOUBLE)
	5710+78		--	--	37	--	STOP BAR
	3711+63 -	3730+00	--	1,838	--	--	RIGHT EDGE OF PAVEMENT
	3711+37		--	--	27	--	STOP BAR
	3711+66 -	3730+00	--	1,833	--	--	LEFT EDGE OF PAVEMENT
	3711+37 -	3717+00	1,126	--	--	--	CENTER LINE (DOUBLE)
	3717+00 -	3730+00	325	--	--	--	CENTER LINE (PASSING)
	BRAUN ROAD						
	52+00 -	52+26	52	--	--	--	CENTER LINE (DOUBLE)
	52+26		--	--	17	--	STOP BAR
	53+35		--	--	17	--	STOP BAR
	53+35 -	54+50	230	--	--	--	CENTER LINE (DOUBLE)
	53+35 -	54+50	--	117	--	--	LEFT EDGE OF PAVEMENT
	53+59 -	54+50	--	92	--	--	RIGHT EDGE OF PAVEMENT
	SUBTOTAL		5,877	13,067			
	TOTAL		5,877	13,067	98	1.24	

3

PERMANENT SIGNING

CATEGORY	SIGN NUMBER	SIGN CODE	SIGN MESSAGE	SIGN SIZE INCH		INCH	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFECTIVE F SF	638.2102 MOVING SIGNS TYPE II EACH	STATION	LOCATION	SIGN MOUNTED ON SAME POST AS SIGN #	634.0614 POSTS WOOD 4x6-INCH x 14-FT EACH	634.0616 POSTS WOOD 4x6-INCH x 16-FT EACH	634.0814 POSTS TUBULAR 2X2-INCH X 14-FT EACH
1000	EAST FRONTAGE ROAD														
	1M01	W1-6	NIGHT ARROW (SINGLE)	48	X	24	--	--	1	5668+85	LT	--	1	--	--
	1M02	W1-6	NIGHT ARROW (SINGLE)	48	X	24	--	--	1	5669+55	LT	--	1	--	--
	1M03	R2-1	SPEED LIMIT 55	24	X	30	--	--	1	5673+50	RT	--	1	--	--
	2M01	W1-4L	REVERSE CURVE	36	X	36	--	--	1	5677+90	LT	--	--	1	--
	2M02	W13-1	ADVISORY SPEED 40	24	X	24	--	--	1	5677+90	LT	2M01	--	--	--
	2M03	W14-3	NO PASSING ZONE	48	X	36	--	--	1	5680+70	RT	--	1	--	--
	3P01	W3-1	STOP AHEAD	36	X	36	--	9.00	--	5702+50	RT	--	--	1	--
	3P02	W14-3	NO PASSING ZONE	48	X	36	--	6.00	--	5705+05	LT	--	--	1	--
	4P01	R1-1	STOP	36	X	36	7.46	--	--	5710+52	RT	--	1	--	--
	4P02	R1-3-P	ALL WAY	24	X	9	1.50	--	--	5710+52	RT	4P01	--	--	--
	4P03	R1-1	STOP	36	X	36	7.46	--	--	3711+48	LT	--	1	--	--
	4P04	R1-3-P	ALL WAY	24	X	9	1.50	--	--	3711+48	LT	4P03	--	--	--
	4P09	R2-1	SPEED LIMIT 55	24	X	30	5.00	--	--	3715+00	RT	--	1	--	--
	4P10	W14-3	NO PASSING ZONE	48	X	36	--	6.00	--	3716+95	RT	--	--	1	--
	4P11	W3-1	STOP AHEAD	36	X	36	--	9.00	--	3719+45	LT	--	--	1	--
	5P01	W3-5	SPEED LIMIT AHEAD 45	36	X	36	--	9.00	--	3725+00	RT	--	--	1	--
	BRAUN ROAD														
	4P05	R1-1	STOP	36	X	36	7.46	--	--	52+50	RT	--	1	--	--
	4P06	R1-3-P	ALL WAY	24	X	9	1.50	--	--	52+50	RT	4P05	--	--	--
	4P07	R1-1	STOP	36	X	36	7.46	--	--	53+15	LT	--	1	--	--
	4P08	R1-3-P	ALL WAY	24	X	9	1.50	--	--	53+15	LT	4P07	--	--	--
	4M09	R12-53	WEIGHT LIMIT CLASS B	24	X	30	--	--	1	54+06	RT	--	--	--	1
	4M10	R2-1	SPEED LIMIT 45	24	X	30	--	--	1	54+91	RT	--	1	--	--
	4P12	W3-1	STOP AHEAD	36	X	36	--	9.00	--	57+65	LT	--	--	1	--
	4P13	R1-1	STOP	36	X	36	7.46	--	--	52+50	LT	--	1	--	--
	4P14	R1-3-P	ALL WAY	24	X	9	1.50	--	--	52+50	LT	4P13	--	--	--
	TOTAL						49.80	48.00	8				11	7	1

3

SIGN REMOVAL

CATEGORY	SIGN NUMBER	STATION	LOCATION	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORT EACH	SIGN MOUNTED ON SAME POST AS SIGN #	REMARKS
1000	EAST FRONTAGE ROAD						
	1R01	5675+16	LT	1	1	--	DO NOT ENTER
	1R02	5675+16	LT	1	--	1R01	EXCEPT MAINT/POLICE AUTH VEH
	2R01	5683+69	LT	1	1	--	STOP AHEAD
	3R01	5705+62	LT	1	1	--	NO PASSING ZONE
	3R02	5706+05	LT	1	1	--	STOP AHEAD
	4R01	5710+63	RT	1	1	--	STOP
	4R04	3711+66	LT	1	1	--	STOP
	4R05	5710+63	RT	1	--	4R01	ALL WAY
	4R08	3711+66	LT	1	--	4R04	ALL WAY
	4R11	3718+26	LT	1	1	--	STOP AHEAD
	4R12	3718+97	RT	1	1	--	NO PASSING ZONE
	BRAUN ROAD						
	4R02	52+09	RT	1	1	--	STOP
	4R03	53+12	LT	1	1	--	STOP
	4R06	52+09	RT	1	--	4R02	ALL WAY
	4R07	53+12	LT	1	--	4R03	ALL WAY
	4R13	58+00	LT	1	1	--	STOP AHEAD
	TOTAL			16	11	--	

TRANSPORTATION PROJECT PLAT NO: 1030-24-21- 4.01

THAT PART OF THE NORTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 36, TOWNSHIP 03 NORTH, RANGE 21 EAST, TOWN OF YORKVILLE, AND THAT PART OF THE NORTHWEST 1/4 OF THE SOUTHWEST 1/4 OF SECTION 31, TOWNSHIP 03 NORTH, RANGE 22 EAST, VILLAGE OF MOUNT PLEASANT, RACINE COUNTY, WISCONSIN.

RELOCATION ORDER I-94 AND FRONTAGE ROADS CTH KR TO STH 11 SEGMENT RACINE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	RELEASE OF RIGHTS	ROR
ACCESS RIGHTS	AR	REMAINING	REM.
ACRES	AC.	RIGHT-OF-WAY	R/W
AND OTHERS	ET.AL.	SECTION	SEC.
CENTERLINE	℄	STATION	STA.
CERTIFIED SURVEY MAP	CSM	TEMPORARY LIMITED EASEMENT	TLE
CORNER	COR.	VOLUME	V.
DOCUMENT	DOC.		
EASEMENT	EASE.		
HIGHWAY EASEMENT	H.E.		
LAND CONTRACT	LC		
MONUMENT	MON.		
PAGE	P.		
PERMANENT LIMITED EASEMENT	PLE		
PROPERTY LINE	PL		
RECORDED AS	(100')		
REFERENCE LINE	℞		

CURVE DATA

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE OR DELTA	DELTA
LENGTH OF CURVE	L
TANGENT	TAN

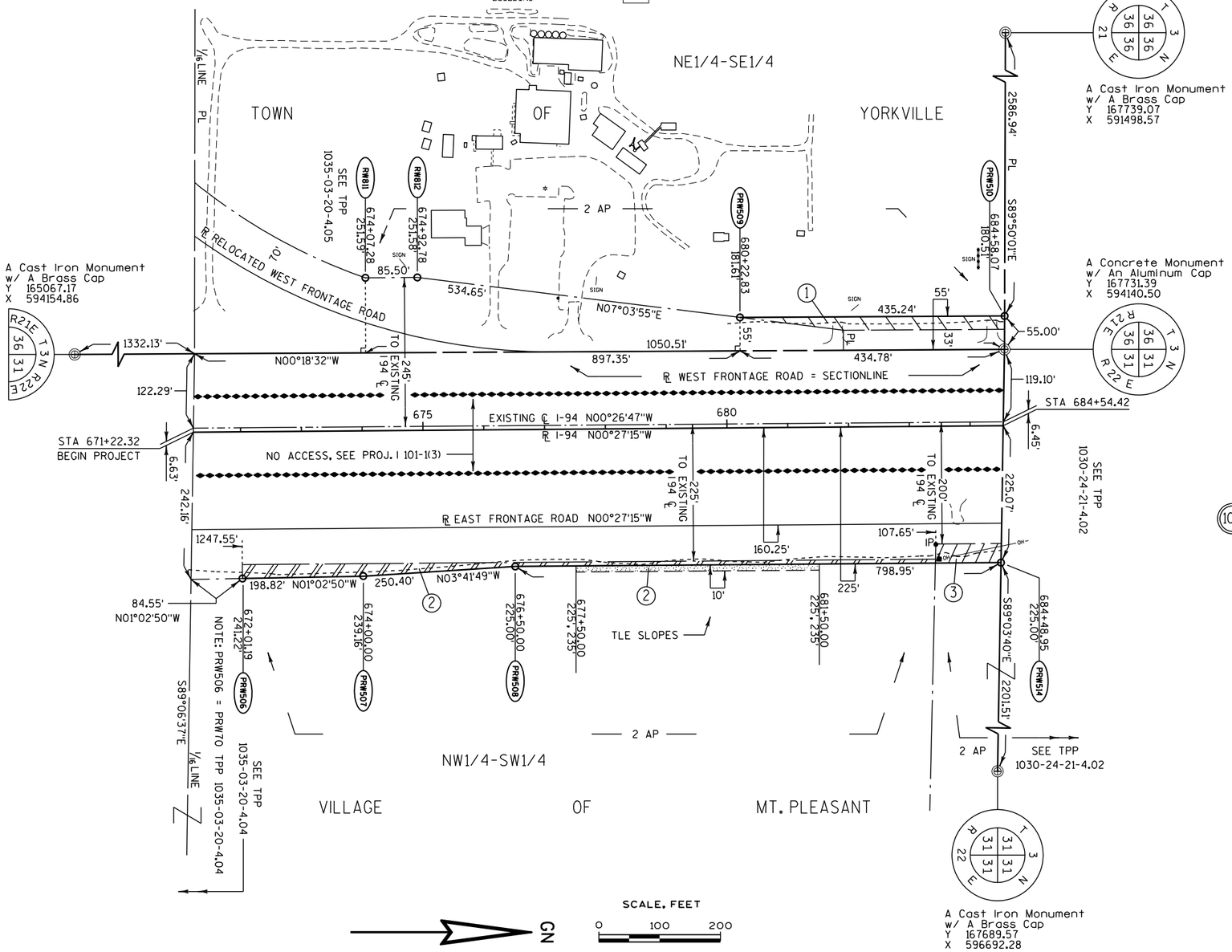
FOUND IRON PIPE/PIN	
R/W MONUMENT	
R/W STANDARD	
SIGN	
SECTION CORNER MONUMENT	
SECTION CORNER SYMBOL	
FEE (HATCH VARIES)	
TEMPORARY LIMITED EASEMENT	
PERMANENT LIMITED EASEMENT	
R/W BOUNDARY POINT	
PARCEL NUMBER	
UTILITY NUMBER	
SIGN NUMBER (OFF PREMISE)	
BUILDING	

CONVENTIONAL SYMBOLS

LS (1" UNLESS NOTED)	PROPOSED R/W LINE
•(SET)	EXISTING H.E. LINE
▲(SET)	PROPERTY LINE
ISIGN	LOT & TIE LINES
	SLOPE INTERCEPTS
	CORPORATE LIMITS
	NO ACCESS (BY PREVIOUS ACQUISITION/CONTROL)
	NO ACCESS (BY ACQUISITION)
	NO ACCESS (BY STATUTORY AUTHORITY)
RWB20	SECTION LINE
102	QUARTER LINE
92	SIXTEENTH LINE
21-1	EXISTING CENTERLINE
	PROPOSED REFERENCE LINE
	PARALLEL OFFSET

CONVENTIONAL UTILITY SYMBOLS

	NON COMPENSABLE	COMPENSABLE
WATER	W	
GAS	G	
TELEPHONE	T	
OVERHEAD TRANSMISSION LINES	OH	
ELECTRIC	E	
CABLE TELEVISION	TV	
FIBER OPTIC	FO	
SANITARY SEWER	SAN	
STORM SEWER	SS	
POWER POLE	⌀	⌀
TELEPHONE POLE	⌀	⌀
TELEPHONE PEDESTAL	⌑	⌑
ELECTRIC TOWER	⊠	



NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, RACINE COUNTY ZONE, NAD83 (97) ADJUSTMENT AND ARE REFERENCED TO GPS HARN POINTS YORKVILLE EAST, PARIS EAST, AND RAYMOND SOUTH. ALL DISTANCES ARE GROUND LENGTH.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY WISDOT SE REGION SURVEY UNIT.

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS OF PUBLIC RECORD".

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY LINES, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

FOR THE LATEST ACCESS / DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE. ALL TLEs EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

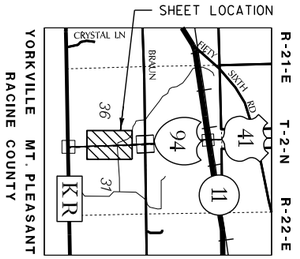
SCHEDULE OF LANDS & INTERESTS REQUIRED		OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.					
PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED ACRES NEW	EXISTING	TOTAL	T.L.E. TEMP. ACRES	P.L.E. PERM. ACRES
1	FLANNERY LAND HOLDINGS LLC	Fee AR	0.177	0.201	0.378	0.000	0.000
2	ANNA MARIE SAFRANSKY ECKELBERG, ET. AL.	Fee AR TLE	0.281	0.000	0.281	0.092	0.000
3	ERICKSON TRUCK SALES & SALVAGE INC.	Fee AR	0.078	0.000	0.078	0.000	0.000

UTILITY NUMBER	OWNER	INTEREST REQUIRED
100	WE ENERGIES ELECTRIC	ROR

(100) NO RECORDED EASEMENT PCL. 3

HIGHWAY	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
I-94	I 101-1(3)	VARIES	1956
I-94	DJ 2617	VARIES	1945

SHEET LOCATION



THIS IS A COPY, THE ORIGINAL DOCUMENT IS AT THE RACINE COUNTY REGISTER OF DEEDS

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE: 6-3-2011 — O.E. Andersen — Name Title

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 6-3-2011 — Paul Krause — Name PAUL KRAUSE

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1030-24-21- 4.01
AMENDMENT NO:

DOCUMENT # 2286284
RACINE COUNTY REGISTER OF DEEDS
June 08, 2011 11:37 AM

TRACEY L. FEICHTNER
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: $25.00
Pages: 1

Vol 1 Pg 168

FILE NAME : J:\projects\d2_r_10302494\21\040401_rp.dgn PLOT DATE : 02-JUN-2011 09:14 PLOT BY : dotphk PLOT NAME : PLOT SCALE : 100.000000:1.000000

CONST.# 1030-24-77/78/79 I-94 1030-24-21 4.01

TRANSPORTATION PROJECT PLAT NO: 1030-24-21 - 4.02

THAT PART OF THE SOUTHEAST 1/4 OF THE NORTHEAST 1/4 AND THE NORTHEAST 1/4 OF THE NORTHEAST 1/4 OF SECTION 36, TOWNSHIP 03 NORTH, RANGE 21 EAST, TOWN OF YORKVILLE, AND THAT PART OF THE SOUTHWEST 1/4 OF THE NORTHWEST 1/4 AND THE NORTHWEST 1/4 OF THE NORTHWEST 1/4 OF SECTION 31, TOWNSHIP 03 NORTH, RANGE 22 EAST, VILLAGE OF MT. PLEASANT, RACINE COUNTY, WISCONSIN.

RELOCATION ORDER I-94 AND FRONTAGE ROADS CTH KR TO STH 11 SEGMENT RACINE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

SCHEDULE OF LANDS & INTERESTS REQUIRED		OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.					
PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED ACRES NEW	EXISTING	TOTAL	T.L.E. TEMP. ACRES	P.L.E. PERM. ACRES
3	ERICKSON TRUCK SALES & SALVAGE INC.	Fee AR TLE	0.246	0.000	0.246	0.115	0.000
4	SUPER MIX PROFIT SHARING TRUST	Fee AR PLE TLE	0.174	0.000	0.174	0.102	0.003
5	LEONARD INVESTMENTS LLC	Fee AR PLE TLE	0.314	0.000	0.314	0.017	0.009
6	UNIVERSITY OF LAWSONOMY	Fee AR	0.466	0.000	0.466	0.000	0.000
7	ALVIN R. & JEAN R. WILKES REVOCABLE TRUST	Fee AR TLE	1.425	1.266	2.691	0.337	0.000
8	SYLVANIA CEMETERY ASSOCIATION	Fee AR	0.000	0.246	0.246	0.000	0.000

HIGHWAY	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
I-94	I 101-1(3)	VARIES	1956
I-94	DJ 2617	VARIES	1945
BRAUN ROAD WEST	TOWN ROAD V. 1 P. 169	66'	1850
BRAUN ROAD EAST	WIDTH BY SS 82.31(2)	66'	

UTILITY NUMBER	OWNER	INTEREST REQUIRED
100	WE ENERGIES ELECTRIC	ROR

(100) DOC 982435 V. 1332 P. 479 PCL. 3
DOC 1281915 V. 1960 P. 348 PCL. 3
DOC 450900 V. 371 P. 493 PCL. 7
DOC 864033 V. 1042 P. 326 PCL. 7

TOWN OF YORKVILLE

VILLAGE OF MT. PLEASANT

SE1/4-NE1/4 NE1/4-NE1/4 SW1/4-NW1/4 NW1/4-NW1/4

YORKVILLE MT. PLEASANT RACINE COUNTY

SHEET LOCATION

A Cast Iron Monument w/ A Brass Cap Y 167739.07 X 591498.57

A Concrete Monument w/ Aluminum Cap Y 167731.59 X 594140.50

A Cast Iron Monument w/ A Brass Cap Y 170411.23 X 591482.10

A Cast Iron Monument w/ A Brass Cap Y 170399.04 X 594126.81

A Cast Iron Monument w/ A Brass Cap Y 170341.77 X 596664.43

A Cast Iron Monument w/ A Brass Cap Y 167689.57 X 596692.28

SEE TPP 1030-24-21-4.01

SEE TPP 1030-24-21-4.03

SEE TPP 1030-24-21-4.02

SEE TPP 1030-24-21-4.01

STA 684+54.42

STA 711+21.55 = STA 51+18.11 BRAUN RD.

R/W BRAUN ROAD

R/W WEST FRONTAGE ROAD

R/W WEST FRONTAGE ROAD = SECTIONLINE

EXISTING ℄ I-94 N00°26'47"W

R/W I-94 N00°27'15"W

NO ACCESS, SEE PROJ. I 101-1(3)

NO ACCESS SEE PROJ. I 101-1(3)

TLE SLOPES AND DRIVE

TLE SLOPES

R/W EAST FRONTAGE ROAD

PLE DRAINAGE 35' X 15'

CEMETERY

SIGN

1 AP

2 AP

4 AP

PL

1/16 LINE

u/c

N00°17'38"W 2667.68' COR. TO COR.

N00°26'47"W 476.05'

S89°03'40"E 2211.51'

S89°44'10"E 2366.76'

N89°44'10"W 1320.00'

S89°32'45"W 1319.63'

S89°03'01"E 2586.94'

N44°56'33"W 278.13'

N45°25'24"E 214.15'

S05°37'27"W 201.13'

S15°22'25"E 82.79'

N81°01'07"E 302.21'

N82°42'03"W 138.83'

SCALE: FEET

0 100 200

GN

THIS IS A COPY, THE ORIGINAL DOCUMENT IS AT THE RACINE COUNTY REGISTER OF DEEDS

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1030-24-21 - 4.02
AMENDMENT NO:

DOCUMENT # 2286285
RACINE COUNTY REGISTER OF DEEDS
June 08, 2011 11:37 AM
TARREY L FEICHTNER
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: $25.00
Pages: 1
Vol 1 Pg 169

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE: 6-3-2011 D E Andersen
Name
Title

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 6-3-2011 Paul Krause
Name PAUL KRAUSE

NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, RACINE COUNTY ZONE, NAD83 (97) ADJUSTMENT AND ARE REFERENCED TO GPS HARN POINTS YORKVILLE EAST, PARIS EAST, AND RAYMOND SOUTH. ALL DISTANCES ARE GROUND LENGTH.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY WISDOT SE REGION SURVEY UNIT.

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS OF PUBLIC RECORD".

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY LINES, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

FOR THE LATEST ACCESS / DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE. ALL TLEs EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

A PERMANENT LIMITED EASEMENT (PLE) IS A RIGHT FOR CONSTRUCTION AND MAINTENANCE PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE. BUT WITHOUT PREJUDICE TO THE OWNER'S RIGHT TO MAKE OR CONSTRUCT IMPROVEMENT ON SAID LANDS OR TO FLATTEN THE SLOPES, PROVIDING SAID ACTIVITIES WILL NOT IMPAIR OR OTHERWISE ADVERSELY AFFECT THE HIGHWAY FACILITIES.

CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN — 1/2" (1" UNLESS NOTED)
R/W MONUMENT — •(SET)
R/W STANDARD — ▲(SET)
SIGN — ISIGN
SECTION CORNER MONUMENT
SECTION CORNER SYMBOL — COUNTY NAME SURVEY MONUMENT
FEE (HATCH VARIES)
TEMPORARY LIMITED EASEMENT
PERMANENT LIMITED EASEMENT
R/W BOUNDARY POINT — RWB20
PARCEL NUMBER — 02
UTILITY NUMBER — 92
SIGN NUMBER (OFF PREMISE) — 21-1
BUILDING

PROPOSED R/W LINE
EXISTING H.E. LINE
PROPERTY LINE
LOT & TIE LINES
SLOPE INTERCEPTS
CORPORATE LIMITS
NO ACCESS (BY PREVIOUS ACQUISITION/CONTROL)
NO ACCESS (BY ACQUISTION)
NO ACCESS (BY STATUTORY AUTHORITY)
SECTION LINE
QUARTER LINE
SIXTEENTH LINE
EXISTING CENTERLINE
PROPOSED REFERENCE LINE
PARALLEL OFFSET

CONVENTIONAL ABBREVIATIONS

ACCESS POINT	AP	RELEASE OF RIGHTS	ROR
ACCESS RIGHTS	AR	REMAINING	REM.
ACRES	AC.	RIGHT-OF-WAY	R/W
AND OTHERS	ET.AL.	SECTION	SEC.
CENTERLINE	℄	STATION	STA.
CERTIFIED SURVEY MAP	CSM	TEMPORARY LIMITED EASEMENT	TLE
CORNER	COR.	VOLUME	V.
DOCUMENT	DOC.		
EASEMENT	EASE.		
HIGHWAY EASEMENT	H.E.		
LAND CONTRACT	LC		
MONUMENT	MON.		
PAGE	P.		
PERMANENT LIMITED EASEMENT	PLE		
PROPERTY LINE	PL		
RECORDED AS	(100')		
REFERENCE LINE	℄		

CURVE DATA

LONG CHORD	LCH	
LONG CHORD BEARING	LCB	
RADIUS	R	
DEGREE OF CURVE	D	
CENTRAL ANGLE OR DELTA	DELTA	
LENGTH OF CURVE	L	
TANGENT	TAN	

CONVENTIONAL UTILITY SYMBOLS

	NON COMPENSABLE	COMPENSABLE
WATER — W		
GAS — G		
TELEPHONE — T		
OVERHEAD — OH		
TRANSMISSION LINES ELECTRIC — E		
CABLE TELEVISION — TV		
FIBER OPTIC — FO		
SANITARY SEWER — SAN		
STORM SEWER — SS		
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		
ELECTRIC TOWER		

FILE NAME : J:\projects\d2_r_10302494\21\040402_rp.dgn PLOT DATE : 02-JUN-2011 09:34 PLOT BY : dotphk PLOT NAME : PLOT SCALE : 100.000000:1.000000

CONST.# 1030-24-77/78/79 I-94 1030-24-21 4.02

TRANSPORTATION PROJECT PLAT NO: 1030-24-21 - 4.03

THAT PART OF THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 AND THE NORTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 25, TOWNSHIP 03 NORTH, RANGE 21 EAST, TOWN OF YORKVILLE, AND THAT PART OF THE SOUTHWEST 1/4 OF THE SOUTHWEST 1/4 AND THE NORTHWEST 1/4 OF THE SOUTHWEST 1/4 OF SECTION 30, TOWNSHIP 03 NORTH, RANGE 22 EAST, VILLAGE OF MT. PLEASANT, RACINE COUNTY, WISCONSIN.

RELOCATION ORDER I-94 AND FRONTAGE ROADS CTH KR TO STH 11 SEGMENT RACINE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

SCHEDULE OF LANDS & INTERESTS REQUIRED			OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.					
PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED ACRES NEW	EXISTING	TOTAL	T.L.E. TEMP. ACRES	P.L.E. PERM. ACRES
9	MILOVAN GRCIC & DANNY CHRISTOFALOS	Fee AR	0.243	0.000	0.243	0.000	0.000
10	DONALD B. & CAROL E. LEE	Fee TLE	0.259	0.000	0.259	0.092	0.000
11	SLAVKO M. GRCIC & DANNY CHRISTOFALOS	Fee AR TLE	0.140	0.000	0.140	0.050	0.000
12	LEWIS EARL SCHULTZ, ET. AL.	Fee AR	0.090	0.000	0.090	0.000	0.000
13	MARION J. KAYE	Fee AR TLE	0.056	0.000	0.056	0.040	0.000
14	VERENA PETERSEN RVC. LIVING TRUST	Fee AR	0.028	0.000	0.028	0.000	0.000
15	MAXINE M. PETERSEN	Fee	0.048	0.000	0.048	0.000	0.000
UTILITY NUMBER	OWNER	INTEREST REQUIRED					
110	VERIZON WIRELESS	ROR					

CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN		PROPOSED R/W LINE (1" UNLESS NOTED)	
R/W MONUMENT	●(SET)	EXISTING H.E. LINE	
R/W STANDARD	▲(SET)	PROPERTY LINE	
SIGN		LOT & TIE LINES	
SECTION CORNER MONUMENT		SLOPE INTERCEPTS	
SECTION CORNER SYMBOL		CORPORATE LIMITS	
		NO ACCESS (BY PREVIOUS ACQUISITION/CONTROL)	
FEE (HATCH VARIES)		NO ACCESS (BY ACQUISITION)	
TEMPORARY LIMITED EASEMENT		NO ACCESS (BY STATUTORY AUTHORITY)	
PERMANENT LIMITED EASEMENT		SECTION LINE	
R/W BOUNDARY POINT		QUARTER LINE	
PARCEL NUMBER		SIXTEENTH LINE	
UTILITY NUMBER		EXISTING CENTERLINE	
SIGN NUMBER (OFF PREMISE)		PROPOSED REFERENCE LINE	
BUILDING		PARALLEL OFFSET	

HIGHWAY	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
I-94	I 101-1(3)	VARIES	1956
BRAUN ROAD WEST	TOWN ROAD VOL. 1 P. 169	66'	1850
BRAUN ROAD EAST	WIDTH BY SS 82.31(2)	66'	

SCALE, FEET: 0 100 200

A Cast Iron Monument w/ A Brass Cap Y 170411.23 X 591482.10

A Cast Iron Monument w/ A Brass Cap Y 170399.04 X 594126.81

A Cast Iron Monument w/ A Brass Cap Y 170341.77 X 596664.43

A Cast Iron Monument w/ A Brass Cap Y 173056.26 X 591480.34

NOTE: THE WITNESS CORNER IS 1.05' SOUTH OF THE EAST WEST 1/4-LINE
A Cast Iron Monument w/ A Brass Cap Y 173044.05 X 593877.43

True Corner No Monument Y 175044.02 X 594210.76

RL I-94
PISTA 718+06.87
Y 594239.46
X 171081.68
PC STA 713+75.98
PT STA 722+37.48
DELTA 03°31'33"
D 00°24'33"
L 861.51'
R 14000.00'
LCH 861.37'
LCB N 02°13'01" W

RL BRAUN ROAD = SECTION LINE

TOWN OF YORKVILLE

VILLAGE OF MT PLEASANT

SE1/4-SE1/4 | NE1/4-SE1/4 | SW1/4-SW1/4 | NW1/4-SW1/4

(110) DOC. 2137021 PCL. 10

WEST R/W CURVE
L 847.05'
R 13765.00'
LCH 846.91'
LCB N 02°13'01" W

EAST R/W CURVE
L 495.31'
R 14225.00'
LCH 495.29'
LCB N 02°58'56" W

EAST R/W CURVE
L 380.30'
R 14235.00'
LCH 380.29'
LCB N 01°13'10" W

RL WEST FRONTAGE ROAD
RL EAST FRONTAGE ROAD
RL BRAUN ROAD = SECTION LINE

PC 713+75.98 | PT 722+37.48 | PI 718+06.87 | PC EXISTING ℄ I-94 | PT EXISTING ℄ I-94

I-94 RL STA 711+21.55 = STA 51+18.11 BRAUN RD.

STA 735+08.09 ℄ CROSSES SECL.

STA 737+73.77 END PROJECT

NO ACCESS SEE PROJ. I 101-1(3)

AR SEE TPP 1030-24-20-4.01

SEE TPP 1030-24-21-4.02

SEE TPP 1030-24-20-4.01

TLE SLOPES

1 AP

1/16 LINE

REBAR ¾"

RUINS

SIGN

PRM523 | PRM530 | PRM531 | PRM529 | PRM522 | PRM532 | PRM502 | PRM501 | PRM500 | PRM528 | PRM505 | PRM504 | PRM503 | PRM805 | PRM88

NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, RACINE COUNTY ZONE, NAD83 (97) ADJUSTMENT AND ARE REFERENCED TO GPS HARN POINTS YORKVILLE EAST, PARIS EAST, AND RAYMOND SOUTH. ALL DISTANCES ARE GROUND LENGTH.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL ¾" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY WISDOT SE REGION SURVEY UNIT.

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS OF PUBLIC RECORD".

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CONVENTIONAL ABBREVIATIONS

ACCESS POINT	AP	RELEASE OF RIGHTS	ROR
ACCESS RIGHTS	AR	REMAINING	REM.
ACRES	AC.	RIGHT-OF-WAY	R/W
AND OTHERS	ET.AL.	SECTION	SEC.
CENTERLINE	℄	STATION	STA.
CERTIFIED SURVEY MAP	CSM	TEMPORARY LIMITED EASEMENT	TLE
CORNER	COR.	VOLUME	V.
DOCUMENT	DOC.		
EASEMENT	EASE.	CURVE DATA	
HIGHWAY EASEMENT	H.E.	LONG CHORD	LCH
LAND CONTRACT	LC	LONG CHORD BEARING	LCB
MONUMENT	MON.	RADIUS	R
PAGE	P.	DEGREE OF CURVE	D
PERMANENT LIMITED EASEMENT	PLE	CENTRAL ANGLE OR DELTA	DELTA
PROPERTY LINE	PL	LENGTH OF CURVE	L
RECORDED AS	(100')	TANGENT	TAN
REFERENCE LINE	℞		

CONVENTIONAL UTILITY SYMBOLS

	NON COMPENSABLE	COMPENSABLE
WATER	W	
GAS	G	
TELEPHONE	T	
OVERHEAD	OH	
TRANSMISSION LINES		
ELECTRIC	E	
CABLE TELEVISION	TV	
FIBER OPTIC	FO	
SANITARY SEWER	SAN	
STORM SEWER	SS	
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		
ELECTRIC TOWER		

THIS IS A COPY, THE ORIGINAL DOCUMENT IS AT THE RACINE COUNTY REGISTER OF DEEDS

SHEET LOCATION

YORKVILLE MT. PLEASANT RACINE COUNTY

CRYSTAL LN | BRAUN | FIRST | SOUTH | RED | KR | R-21-E T-2-N R-22-E

A Cast Iron Monument w/ A Brass Cap Y 172998.34 X 596640.31

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION

DATE: 6-3-2011 — O.E. Andersen — Name Title

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 6-3-2011 — Paul Krause — Name PAUL KRAUSE

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1030-24-21 - 4.03
AMENDMENT NO:

DOCUMENT # 2286286
RACINE COUNTY REGISTER OF DEEDS
June 08, 2011 11:37 AM

TRACEY L FEICHTNER
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: $25.00
Pages: 1

Vol 1 Pg 170

FILE NAME : J:\projects\d2_r_10302494\21\040403_rp.dgn | PLOT DATE : 02-JUN-2011 09:40 | PLOT BY : dotphk | PLOT NAME : | PLOT SCALE : 100.000000:1.000000

CONST.# 1030-24-77/78/79 | I-94 | 1030-24-21 4.03

IH-94 NB

W-2
0.021 AC

SLOPE INTERCEPT

N

W-1
0.040 AC

WETLAND BOUNDARY

8'
12'
12'
8'

5670
5672
5674
5676

MATCHLINE 5676+50

EAST FRONTAGE ROAD

EXIST R/W

PROP R/W

PROP R/W

5668

5666

PROP R/W

R/L EAST FRONTAGE ROAD

SLOPE INTERCEPT

W-3
0.341 AC

STA 5672+41
1-30" CPRC REQ'D

BM 14

ECKLEBERG, ET. AL.

LEGEND

PERMITTED WETLAND IMPACTS

5664

BEGIN PROJECT
I.D. 1030-24-77
STA. 5664+50
=MATCH PROJECT
I.D. 1035-03-70
(PREVIOUSLY CONSTRUCTED)

WETLAND BOUNDARY

VCL 200.00
K = 200.50

VPI STA 5664+50.00
VPI EL 738.59

VPT STA 5666+50.00
VPT EL 737.59

LP STA 5668+00.25
LP EL 737.09

-0.50 %

+0.50 %

HP STA 5665+38.80
HP EL 737.87

K = 222.40
VCL 400.00

VPC STA 5667+00.00
VPC EL 737.34

VPI STA 5668+00.00
VPI EL 736.84

VPT STA 5669+00.00
VPT EL 737.34

FINISHED PROFILE AT R
EAST FRONTAGE ROAD

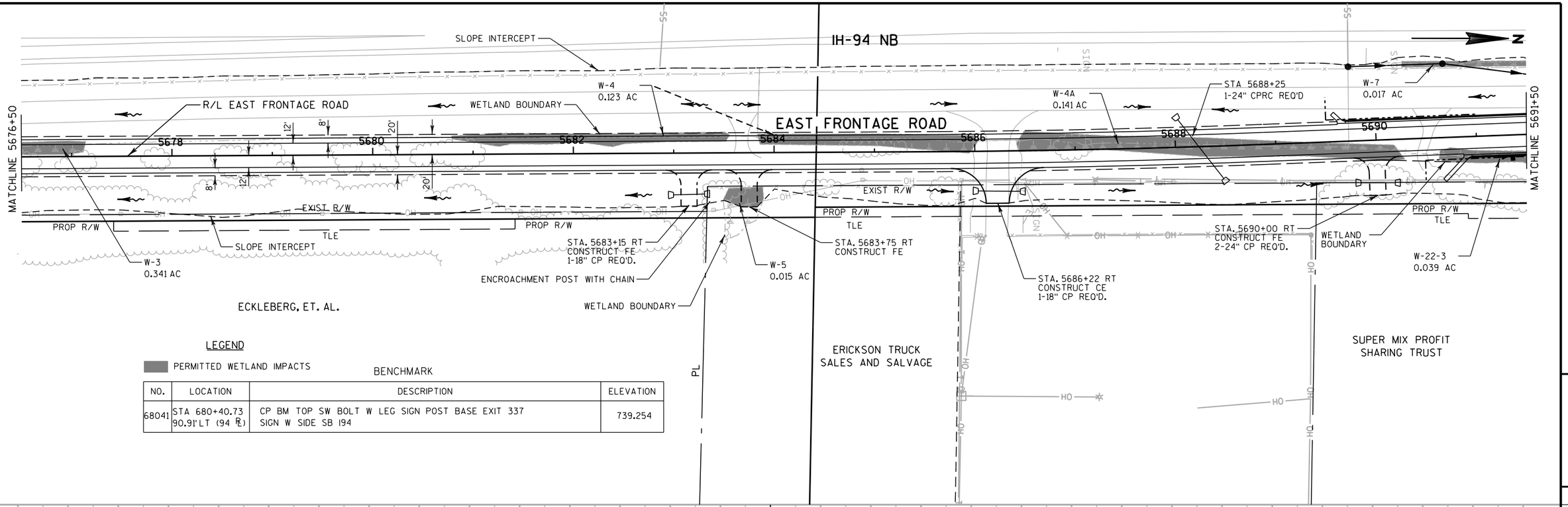
EXISTING PROFILE AT R
EAST FRONTAGE ROAD

STA. 5672+40
1-30" CPRC REQ'D.

EXISTING PROFILE ELEVATIONS

FINISHED PROFILE ELEVATIONS

| | | |

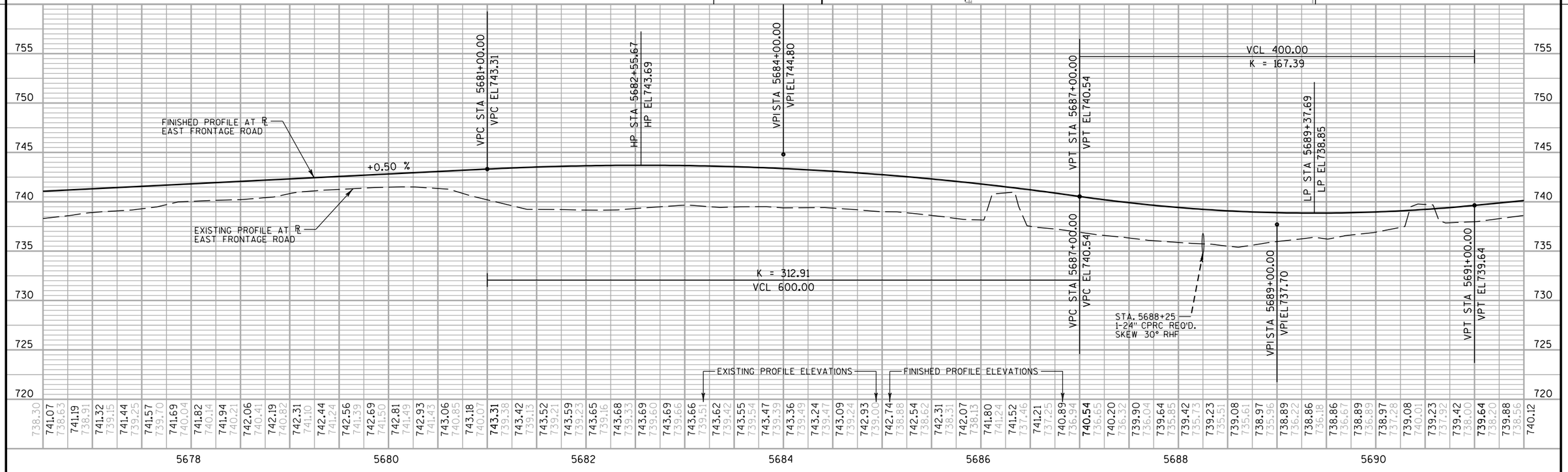


LEGEND

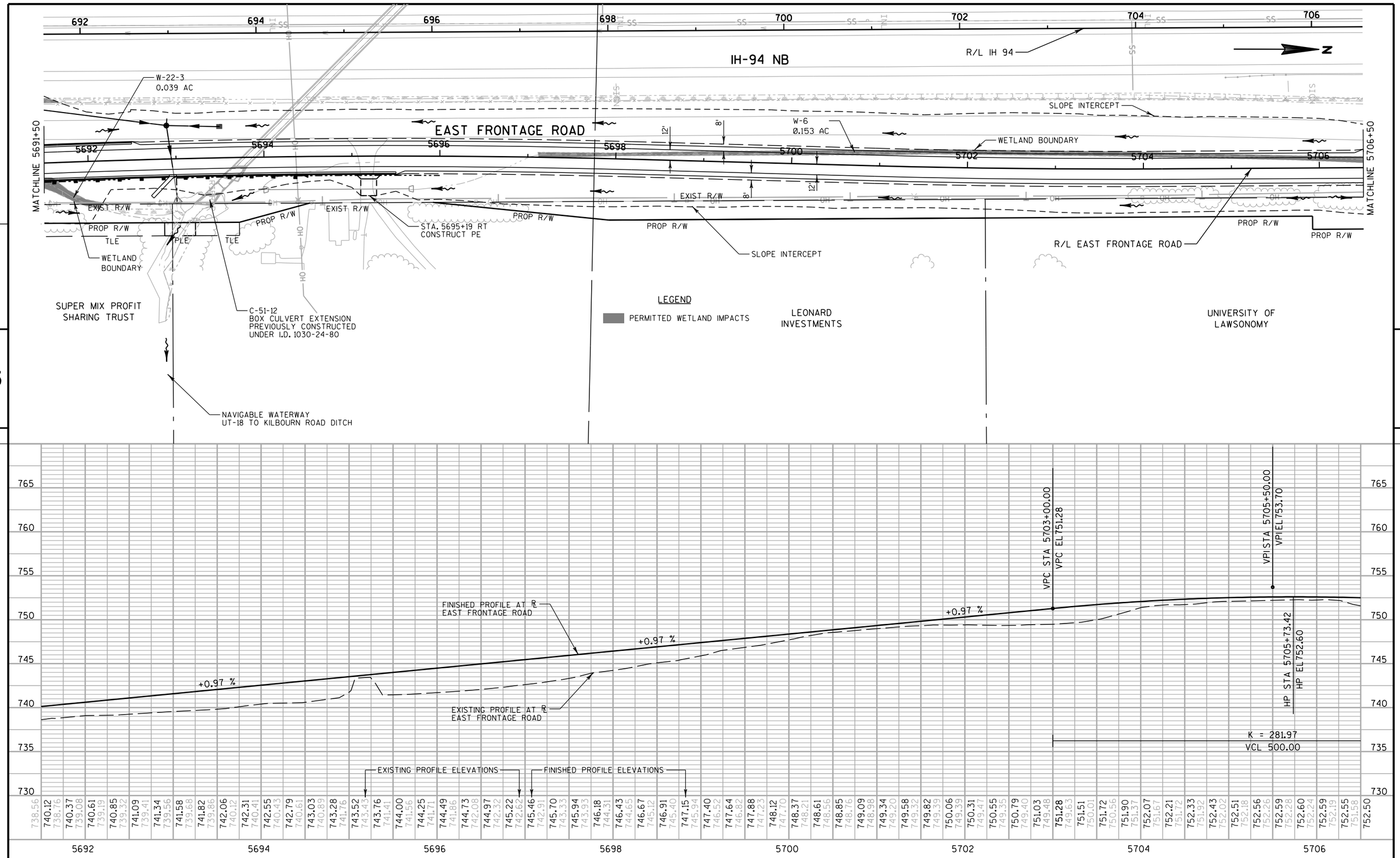
PERMITTED WETLAND IMPACTS

BENCHMARK

NO.	LOCATION	DESCRIPTION	ELEVATION
68041	STA 680+40.73 90.91' LT (94 ℄)	CP BM TOP SW BOLT W LEG SIGN POST BASE EXIT 337 SIGN W SIDE SB 194	739.254



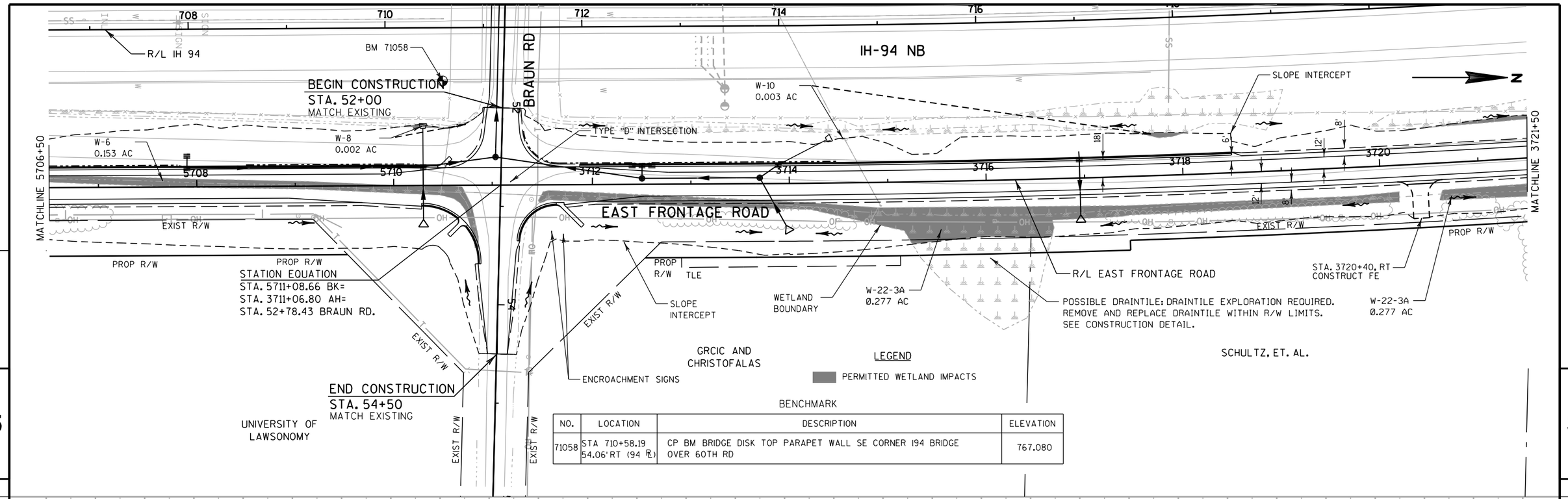
PROJECT NO: 1030-24-77	HWY: IH 94	COUNTY: RACINE	PLAN & PROFILE: EAST FRONTAGE ROAD	SHEET 99	E



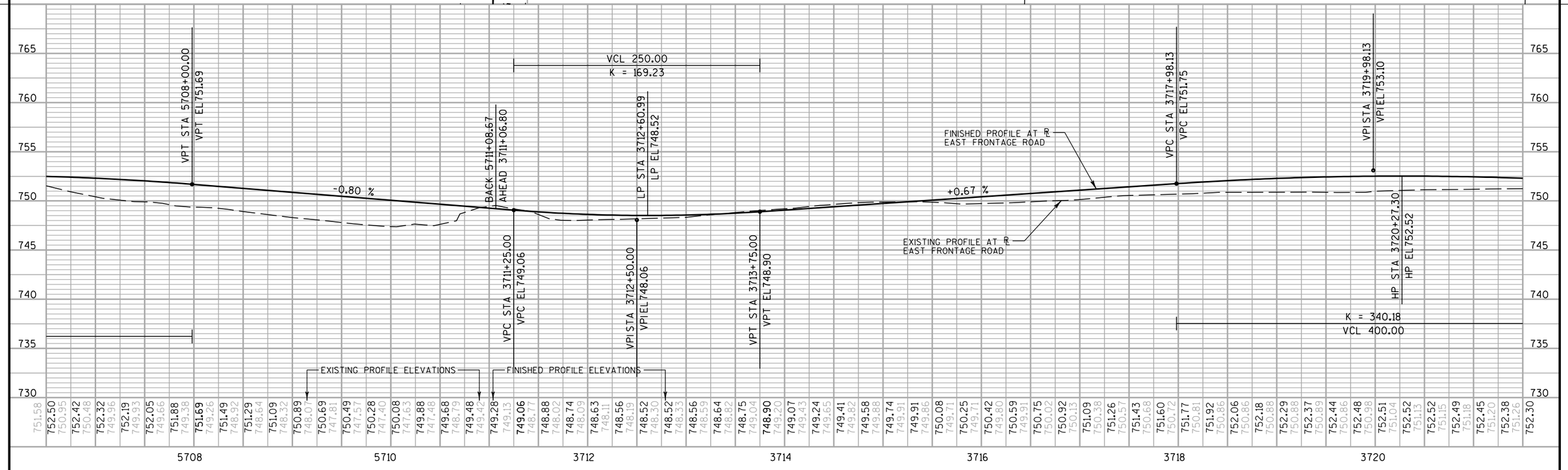
PROJECT NO: 1030-24-77	HWY: IH 94	COUNTY: RACINE	PLAN & PROFILE: EAST FRONTAGE ROAD	SHEET 100	E

FILE NAME : Z:\Racine\CADDS\12\12E\CDS\050103_PP.dgn PLOT DATE : 7/28/2017 PLOT BY : cory.ihde PLOT NAME : $FILE$ PLOT SCALE : 1:100

WISDOT/CADDS SHEET 40



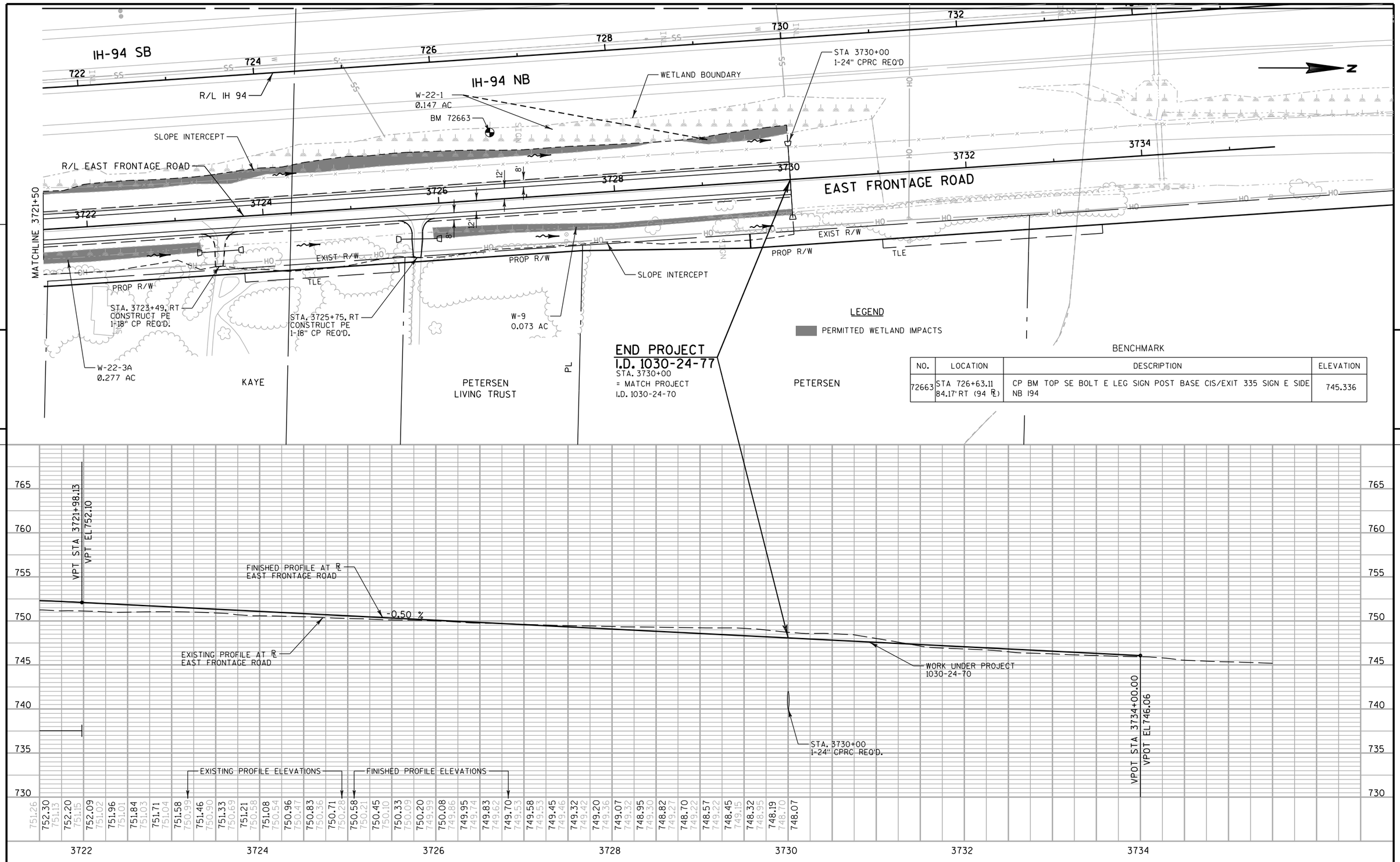
NO.	LOCATION	DESCRIPTION	ELEVATION
71058	STA 710+58.19 54.06' RT (94 R)	CP BM BRIDGE DISK TOP PARAPET WALL SE CORNER I94 BRIDGE OVER 60TH RD	767.080



PROJECT NO: 1030-24-77	HWY: IH 94	COUNTY: RACINE	PLAN & PROFILE: EAST FRONTAGE ROAD	SHEET 101	E

FILE NAME : Z:\Racine\CADDS\12\12E\CDS\050104_PP.dgn PLOT DATE : 9/18/2017 PLOT BY : cory.ihde PLOT NAME : $FILE$ PLOT SCALE : 1:100

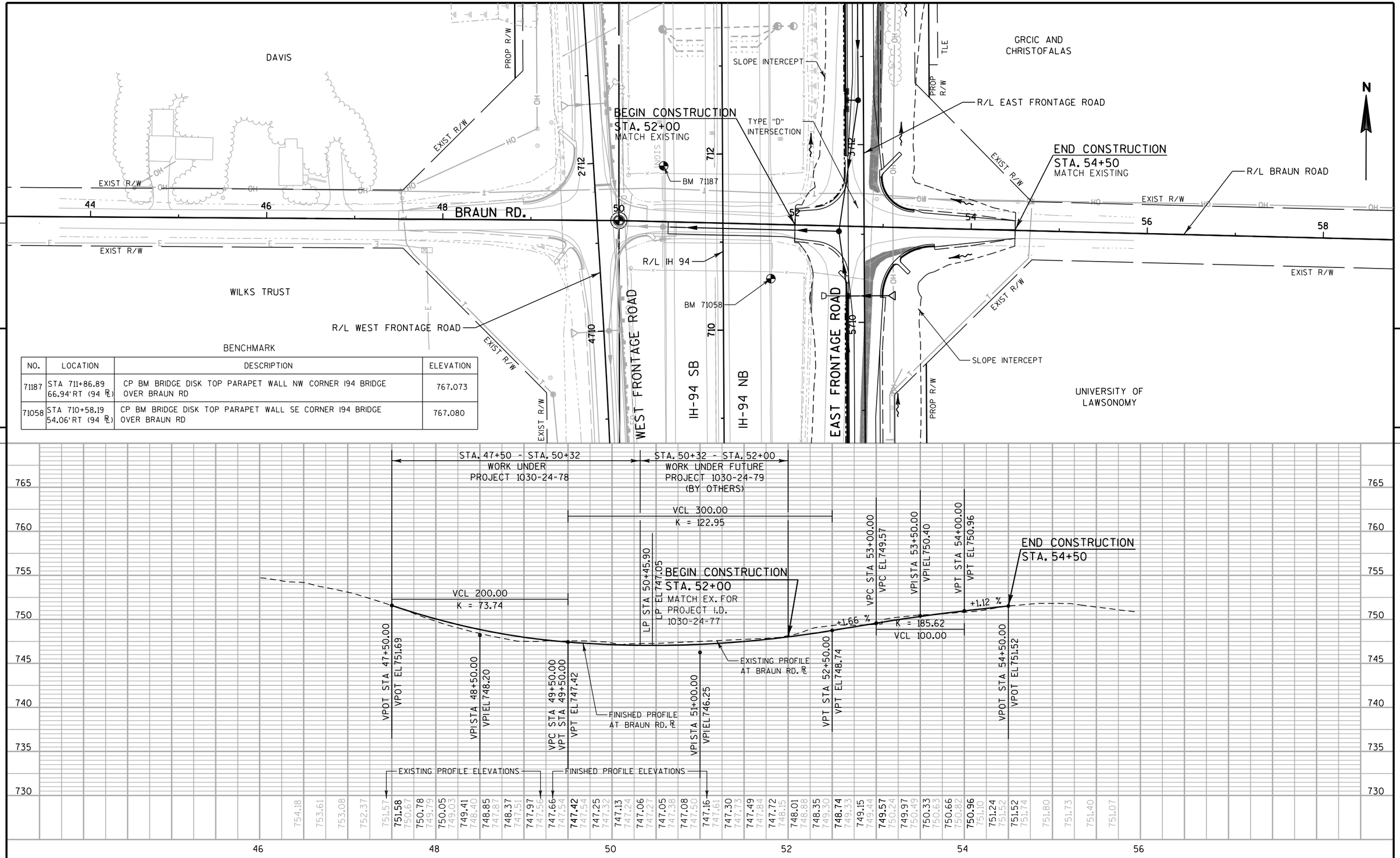
WISDOT/CADDS SHEET 40



PROJECT NO: 1030-24-77	HWY: IH 94	COUNTY: RACINE	PLAN & PROFILE: EAST FRONTAGE ROAD	SHEET 102	E

FILE NAME : Z:\Racine\CADDS\12\12E\CDS\050105_PP.dgn PLOT DATE : 7/28/2017 PLOT BY : cory.ihde PLOT NAME : $FILE$ PLOT SCALE : 1:100

WISDOT/CADDS SHEET 40



NO.	LOCATION	DESCRIPTION	ELEVATION
71187	STA 711+86.89 66.94'RT (94 ℄)	CP BM BRIDGE DISK TOP PARAPET WALL NW CORNER I94 BRIDGE OVER BRAUN RD	767.073
71058	STA 710+58.19 54.06'RT (94 ℄)	CP BM BRIDGE DISK TOP PARAPET WALL SE CORNER I94 BRIDGE OVER BRAUN RD	767.080

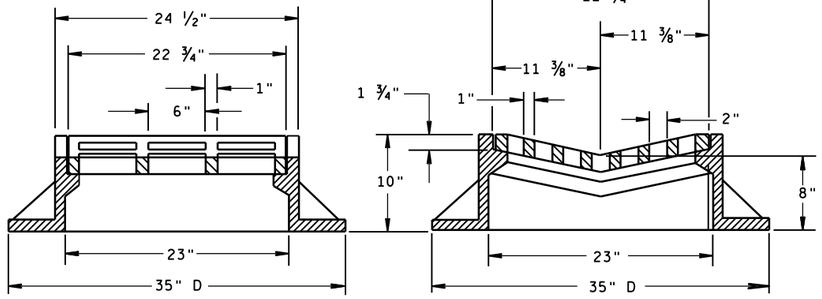
PROJECT NO: 1030-24-77	HWY: IH 94	COUNTY: RACINE	PLAN & PROFILE: BRAUN ROAD	SHEET 103	E

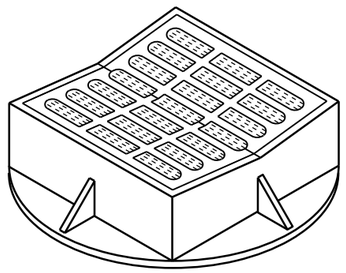
FILE NAME : Z:\Racine\CADDS\12\12E\CDS\050106_PP.dgn PLOT DATE : 7/28/2017 PLOT BY : cory.ihde PLOT NAME : $FILE$ PLOT SCALE : 1:100

WISDOT/CADDS SHEET 40

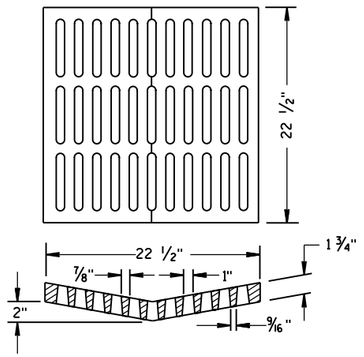
Standard Detail Drawing List

08A05-19B	INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM
08A05-19C	INLET COVERS TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S
08A05-19D	INLET COVER TYPE BW, MANHOLE COVERS, TYPE K, J, J-S, L & M
08B09-02	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER
08C08-02	INLETS MEDIAN 1 AND 2 GRATE
08D01-19	CONCRETE CURB, CONCRETE CURB AND GUTTER AND TIES
08D04-05	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08D15-05A	EDGEDRAIN OUTLET AND OUTFALL MARKERS
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08E14-01	TRACKING PAD
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
08F06-04	REINFORCED CONCRETE APRON ENDWALL FOR PIPE UNDERDRAIN
08F07-05	STEEL APRON ENDWALLS FOR CULVERT PIPE AND PIPE ARCH SLOPED SIDE FRAINS
09A01-13A	AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND D AND TEE INTERSECTION BYPASS LANE
14B42-04A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-04B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-04C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-02A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-02B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-02C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
15A02-09	DELINEATOR POST, DELINEATOR REFLECTOR AND DELINEATOR BRACKET WITH REFLECTIVE SHEETING
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15B01-08A	FENCE WOVEN WIRE
15B01-08B	FENCE WOVEN WIRE
15C02-06A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C03-03	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C04-03	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C08-17A	LONGITUDINAL MARKING (MAINLINE)
15C08-17B	PAVEMENT MARKING (TURN LANES)
15C12-04	TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
15C12-05	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15D27-03	TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH
15D29-04	TRAFFIC CONTROL, VEHICLE ENTRANCE/EXIT OR HAUL ROAD
15D38-01A	TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS
15D38-01B	ATTACHMENT OF SIGNS TO POSTS



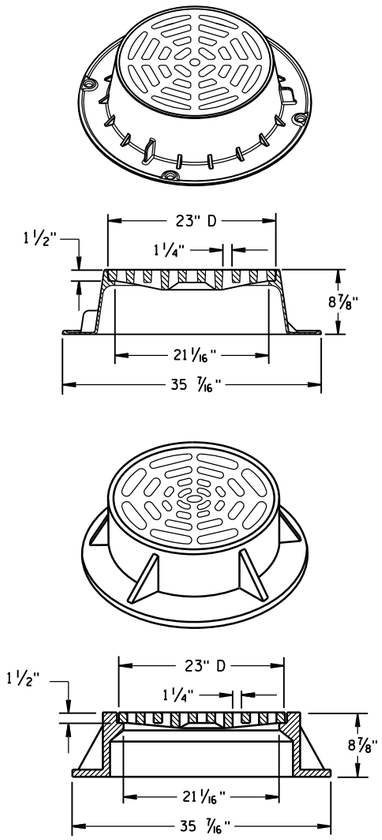


TYPE "B"



ALTERNATIVE GRATE FOR TYPE "B" COVER

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS POSSIBLE.
NOTED AS TYPE B-A ON THE DRAINAGE TABLE



TYPE "C"

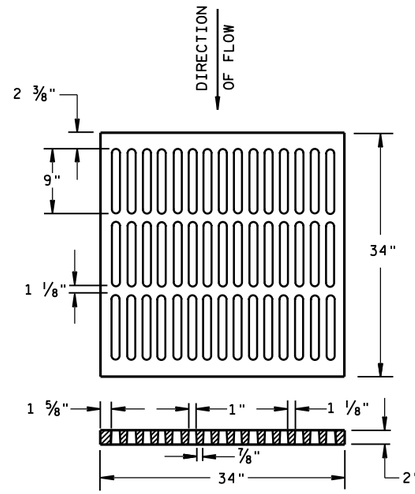
NOTE: EITHER CASTING IS ACCEPTABLE

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

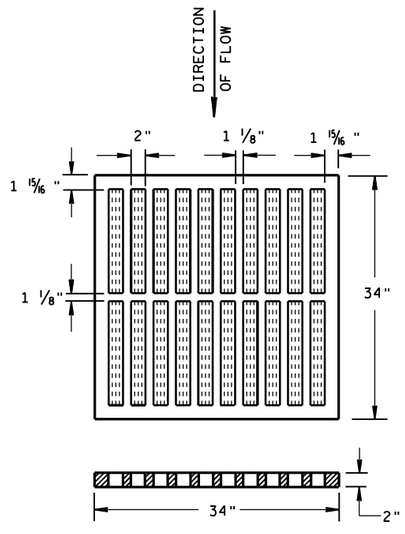
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.



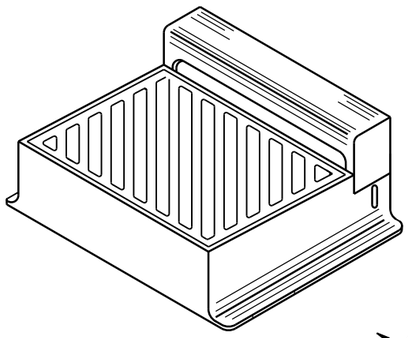
ALTERNATIVE TYPE "MS"

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS PERMITTED
NOTED AS TYPE MS-A ON THE DRAINAGE TABLE

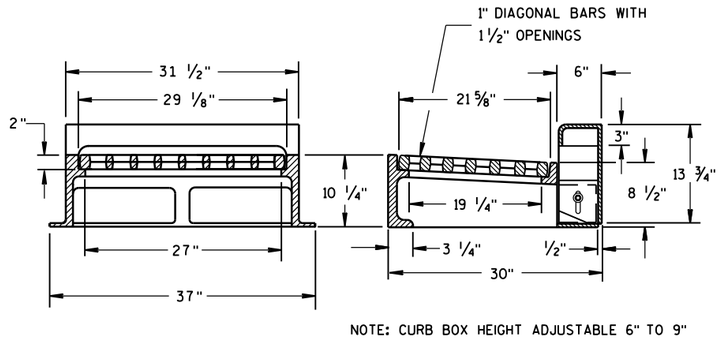


TYPE "MS"

USE ON FREEWAYS AND EXPRESSWAYS
NOTED AS TYPE MS ON DRAINAGE TABLE



DIAGONAL SLOTS, SHALL BE ORIENTED TO THE DIRECTION OF FLOW AS ILLUSTRATED. GRATES ARE MANUFACTURED TO BE REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

TYPE "WM"

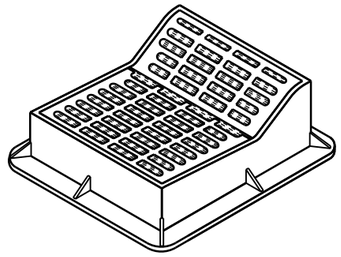
INLET COVERS
TYPE B, B-A, C, MS, MS-A, & WM

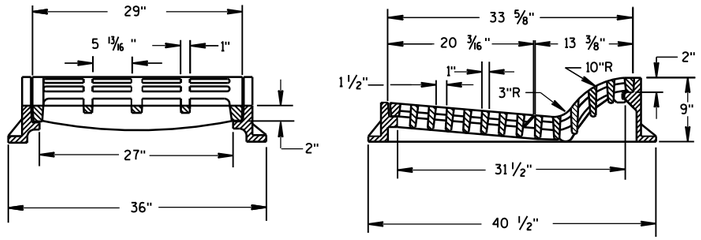
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

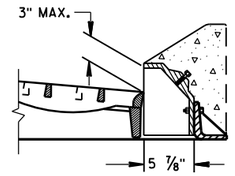
S.D.D. 8 A 5-19b





TYPE "F"

USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.



ALTERNATIVE CURB BOX FOR TYPE "HM" COVER

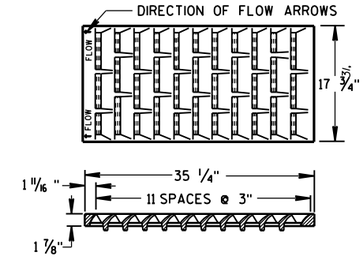
USE WITH TYPES G & J CONCRETE CURB & GUTTER, 30 INCH
NOTED AS TYPE HM-GJ ON DRAINAGE TABLE

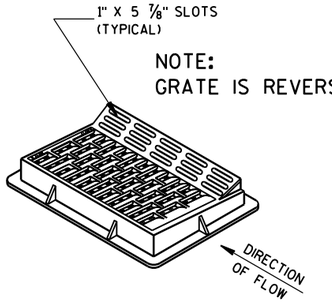
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM-GJ" COVER
NOTED AS TYPE HM-GJ-S ON DRAINAGE TABLE

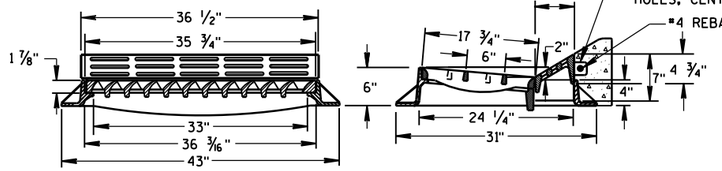
GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.



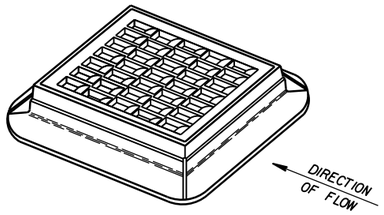


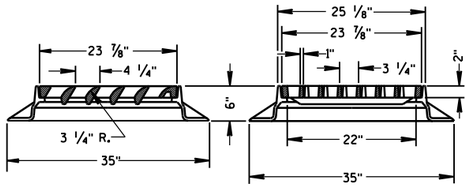


TYPE "HM"

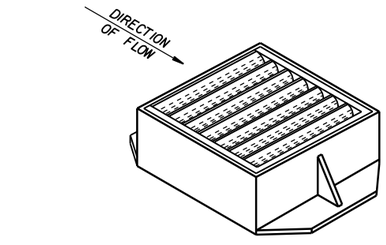
USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.

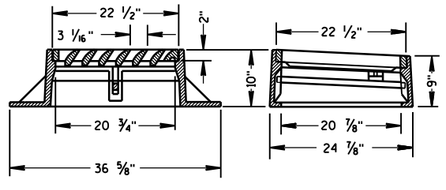
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM" COVER
NOTED AS TYPE HM-S ON DRAINAGE TABLE



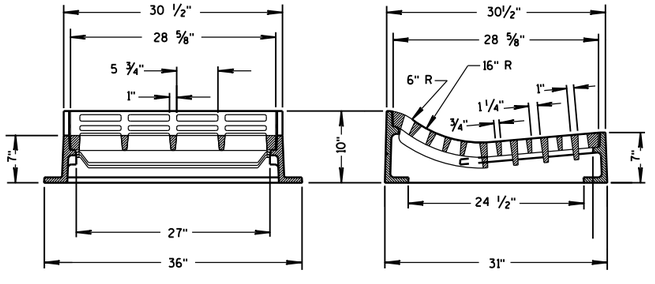


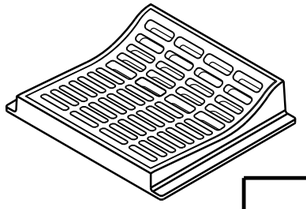
TYPE "S"





TYPE "V"





TYPE "T"

USE WITH TYPES R & T CONCRETE CURB & GUTTER, 36 INCH.

INLET COVERS
TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

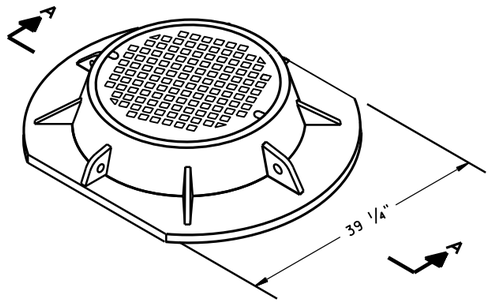
APPROVED
11/27/2013
DATE

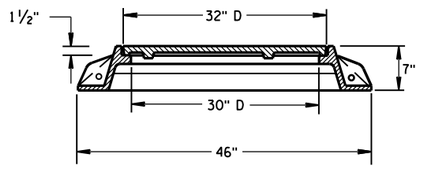
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

FHWA

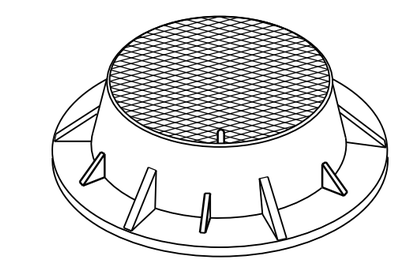
6

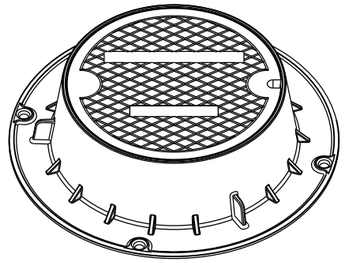
S.D.D. 8 A 5-19c

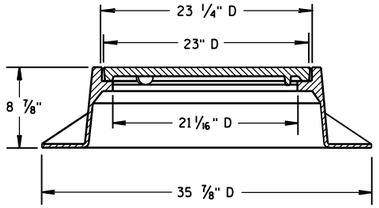


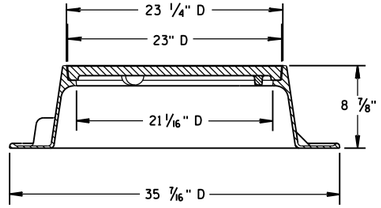


SECTION A-A
TYPE "K"









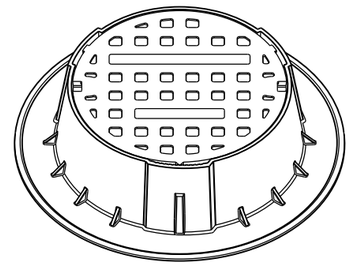
TYPE "J"
NOTE: EITHER CASTING IS ACCEPTABLE

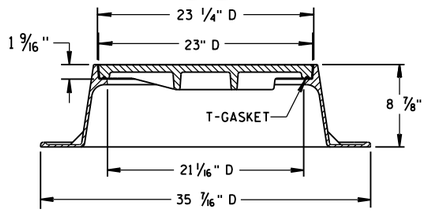
GENERAL NOTES

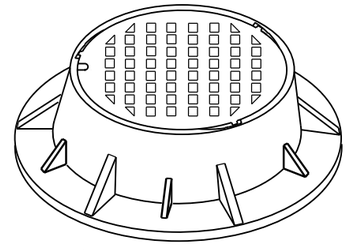
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

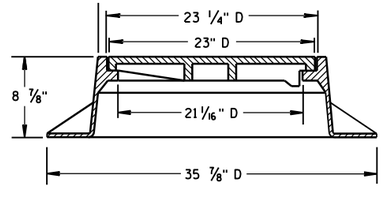
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR MANHOLE COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

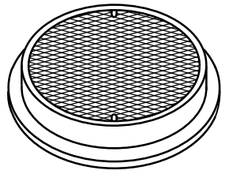


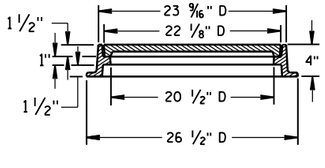




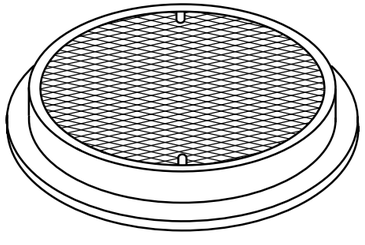


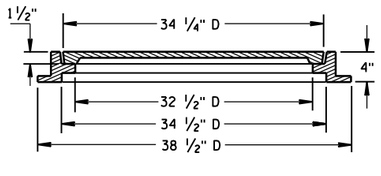
TYPE "J" SPECIAL
TYPE "B" NON-ROCKING SELF-SEAL LID
(NOTED AS TYPE J-S ON THE DRAINAGE TABLE)
NOTE: EITHER CASTING IS ACCEPTABLE



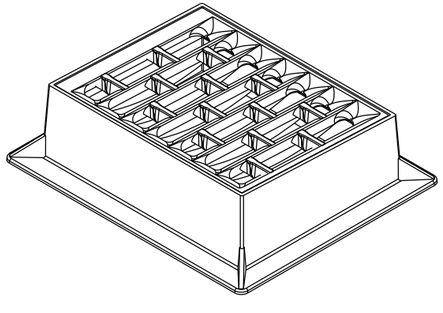


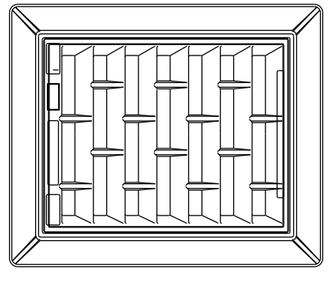
TYPE "L"

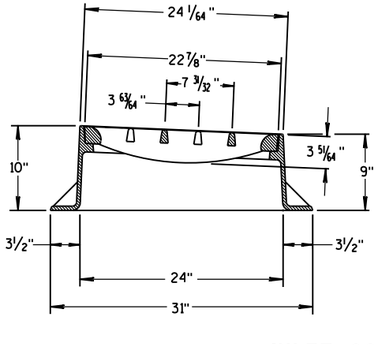


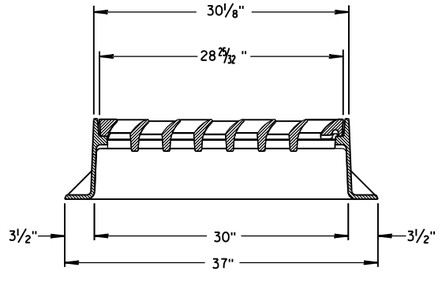


TYPE "M"









INLET COVER TYPE "BW"

INLET COVER TYPE BW
MANHOLE COVERS, TYPE K, J, J-S, L & M

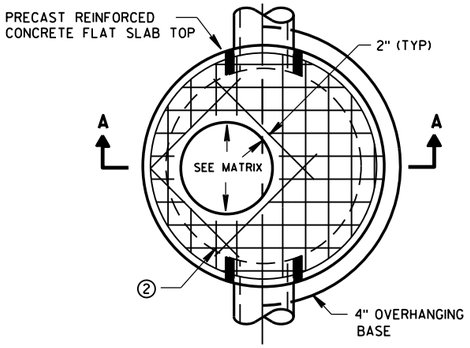
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013
DATE
FHWA

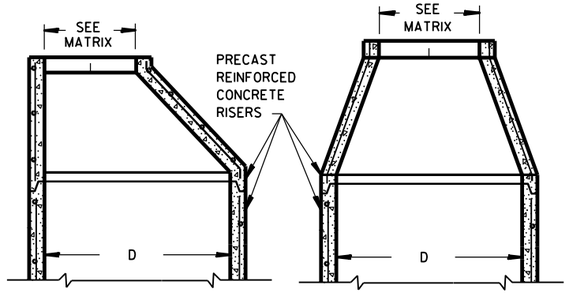
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

6

S.D.D. 8 A 5-19d

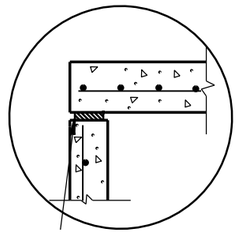


PLAN VIEW CIRCULAR OPENING

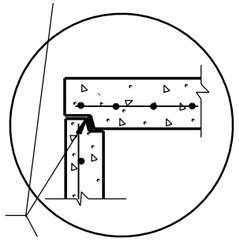


OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

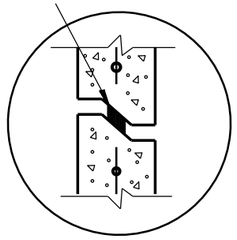


TOP WITH PLAIN END JOINT



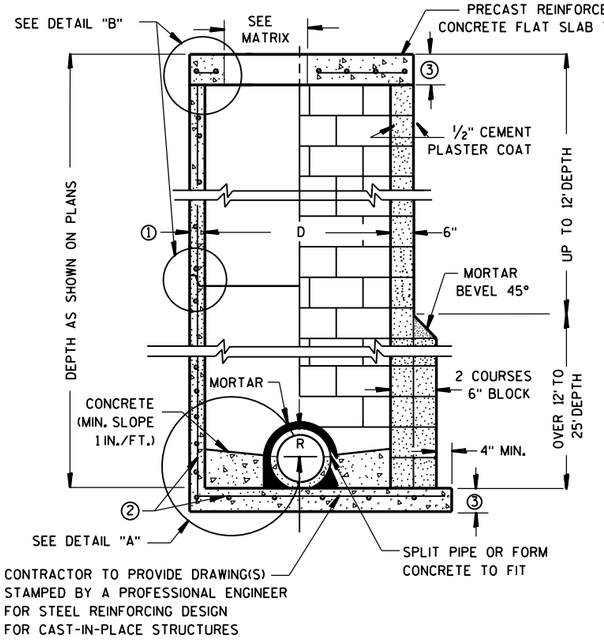
JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C990 (TYP)

TOP WITH TONGUE AND GROOVE JOINT



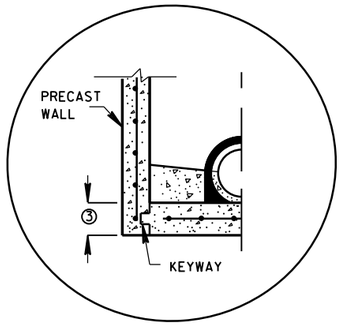
RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"

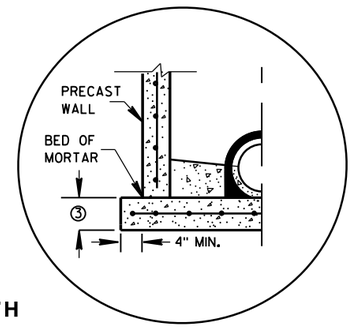


PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

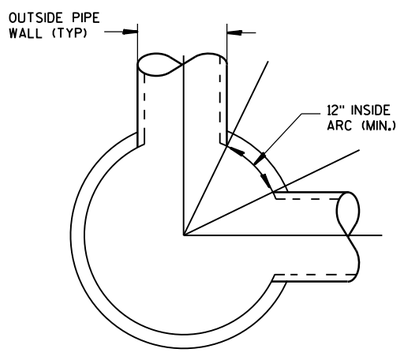


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "C"

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST MANHOLE UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES, AND CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 5 FEET OR LESS IN DEPTH, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

STEPS MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF ½" AND MEET THE REQUIREMENTS OF ASTM A615.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

CONCRETE BLOCK WILL NOT BE PERMITED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

ALL PRECAST MANHOLE UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT, 5 INCHES FOR 4-FT, 6 INCHES FOR 5-FT, 7 INCHES FOR 6-FT, 8 INCHES FOR 7-FT AND 9 INCHES FOR 8-FT DIAMETER PRECAST MANHOLES.

② FOR PRECAST MANHOLES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

③ PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER OF 48" AND LESS SHALL HAVE A MINIMUM THICKNESS OF 6". PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER LARGER THAN 48" SHALL HAVE A MINIMUM THICKNESS OF 8".

MANHOLE COVER OPENING MATRIX

MANHOLE COVER TYPE	C	ALL J'S	K	L	M
OPENING SIZE (FT)					
2 DIA.	X	X		X	
3 DIA.			X		X

PIPE MATRIX

MANHOLE SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18
5-FT	36	24
6-FT	42	36
7-FT	48	36
8-FT	60	42

MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

Sept., 2016
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT
UNIT SUPERV

FHWA

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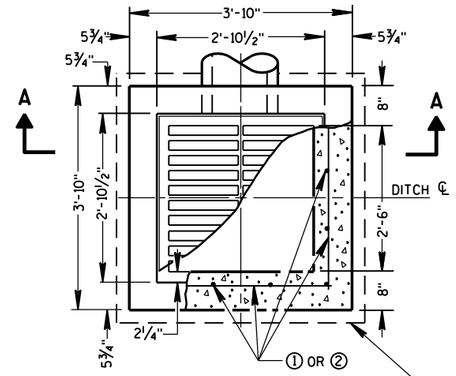
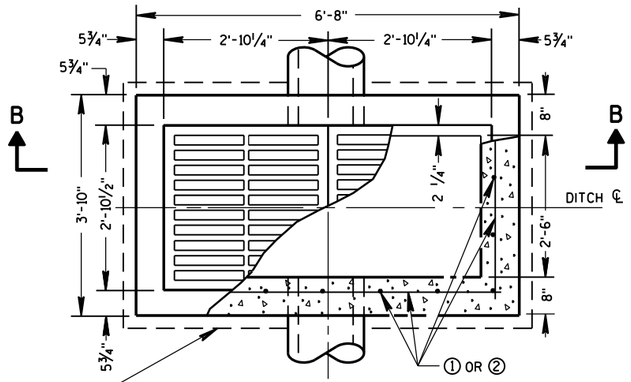
S.D.D. 8 B 9-2

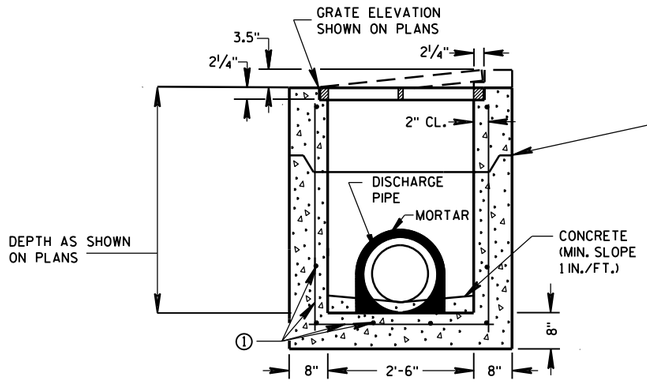


PLAN VIEW

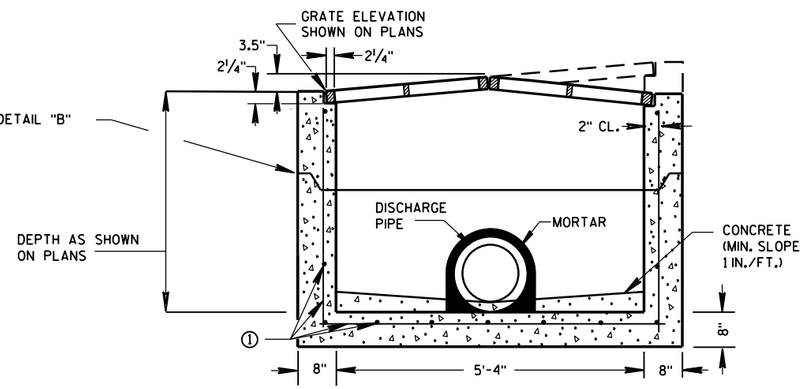


PLAN VIEW

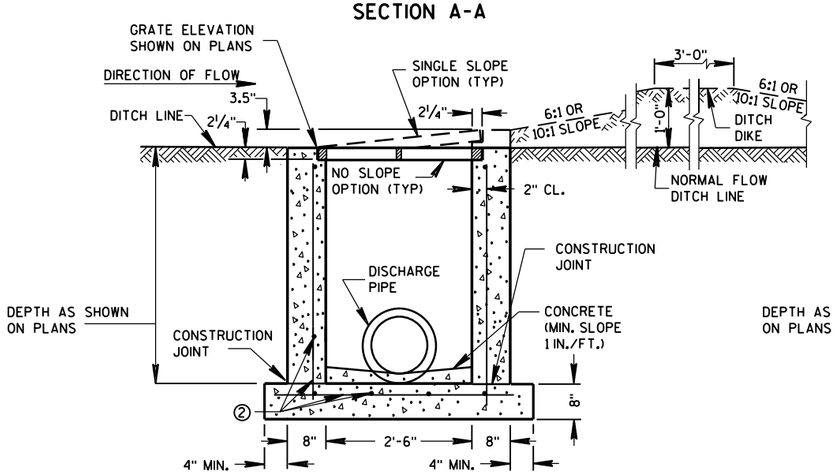
4" OVERHANGING BASE ON REINFORCED CAST-IN-PLACE CONCRETE INLETS



PRECAST REINFORCED CONCRETE SECTION A-A

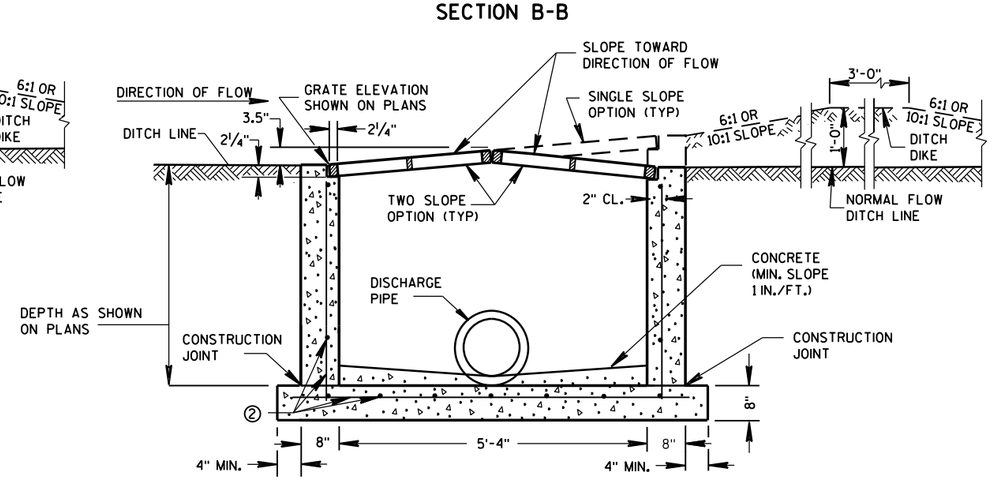


PRECAST REINFORCED CONCRETE SECTION B-B



REINFORCED CAST-IN-PLACE CONCRETE SECTION A-A

INLETS MEDIAN 1 GRATE



REINFORCED CAST-IN-PLACE CONCRETE SECTION B-B

INLETS MEDIAN 2 GRATE

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLETS WHICH MAY INCLUDE PRECAST REINFORCED CONCRETE INLETS, SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL MEDIAN INLETS ARE DESIGNATED ON THE PLANS AS "INLETS, 1G-MS", ETC. THE FIRST NUMBER AND LETTER DESIGNATE THE TYPE OF STRUCTURE, AND THE FOLLOWING LETTERS DESIGNATE THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

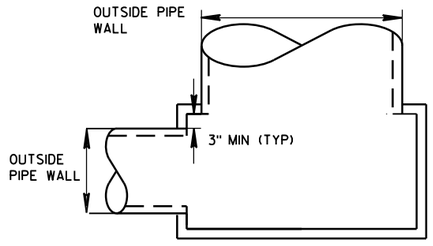
MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3" CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

① FOR PRECAST INLETS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

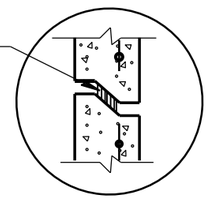
PIPE MATRIX

	MAXIMUM INSIDE PIPE DIAMETER	
INLET SIZE	WIDTH (IN)	LENGTH (IN)
1 GRATE	18	18
2 GRATE	18	42



DETAIL "A"

JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 (TYP)



DETAIL "B"

INLETS MEDIAN 1 AND 2 GRATE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2016 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS UNIT SUPERVI ENT
FHWA

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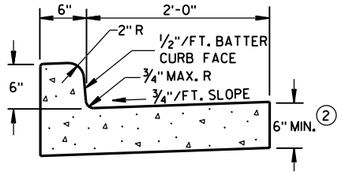
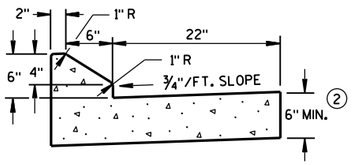
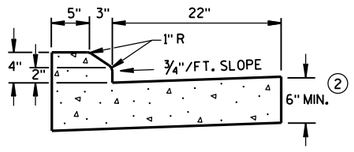


TYPES A & D ①

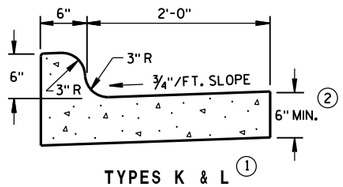


6" SLOPED CURB TYPES G & J ①

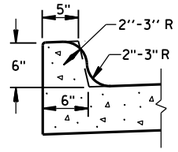


4" SLOPED CURB TYPES G & J ①

CONCRETE CURB & GUTTER 30"

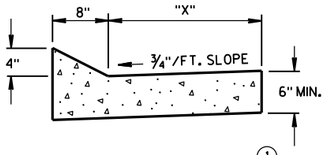


TYPES K & L ①



OPTIONAL CURB SHAPE FOR TYPES K & L ①

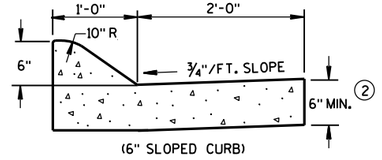
CONCRETE CURB & GUTTER 30"



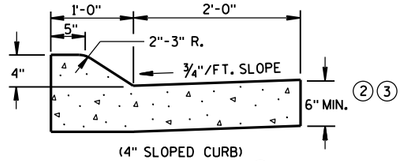
TYPES TBT & TBTT ①

CONCRETE CURB & GUTTER

TBT & TBTT	"X"
30"	22"
36"	28"

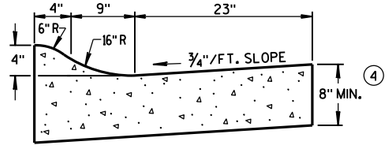


(6" SLOPED CURB)



(4" SLOPED CURB)

TYPES A & D ①



4" SLOPED CURB TYPES R & T ①⑤

CONCRETE CURB & GUTTER 36"

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

INTEGRAL CURB & GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB & GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE. A LONGITUDINAL CONSTRUCTION JOINT IS NOT REQUIRED WITH INTEGRAL CURB AND GUTTER.

WHERE THE TRANSVERSE JOINTS IN THE PAVEMENT ARE REQUIRED TO BE SEALED, THE JOINTS IN THE INTEGRAL CURB AND GUTTER SHALL BE SEALED TO THE FACE OF CURB WITH THE SAME TYPE OF SEALANT. THE COST OF FURNISHING AND INSTALLING THIS SEALANT SHALL BE INCIDENTAL TO THE ITEM CONCRETE CURB AND GUTTER.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2'-0" BEHIND THE BACK OF CURBS.

① TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K, R AND TBTT.

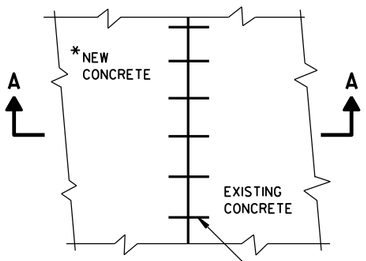
② THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

③ USE 8" MINIMUM GUTTER THICKNESS WHEN USED WITH AN ADJACENT CONCRETE TRUCK APRON PLACED BEHIND BACK OF CURB.

④ THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.

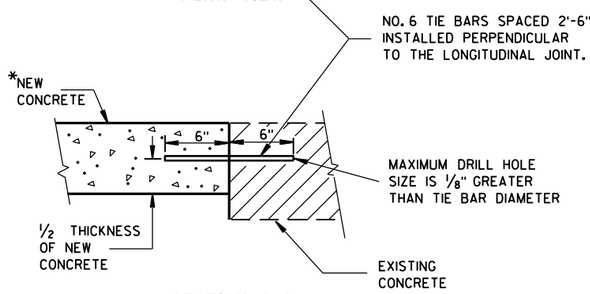
⑤ THE FACE OF CURB IS 6" FROM THE BACK OF CURB.

⑥ WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.



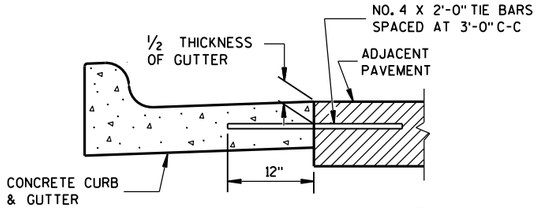
PLAN VIEW

*NEW CURB & GUTTER, SURFACE DRAINS, CONCRETE PAVEMENT OR OTHER NEW CONCRETE.

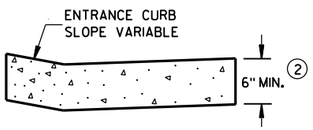


SECTION A-A

TIE BARS DRILLED INTO EXISTING PAVEMENT

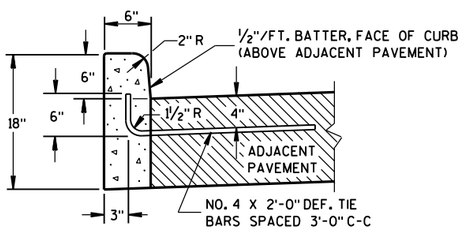


TYPICAL TIE BAR LOCATION ①

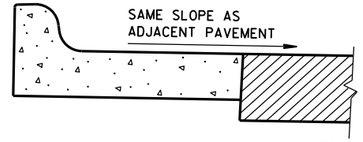


DRIVEWAY ENTRANCE CURB

(WHEN DIRECTED BY THE ENGINEER)

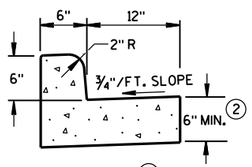


① TYPES A & D



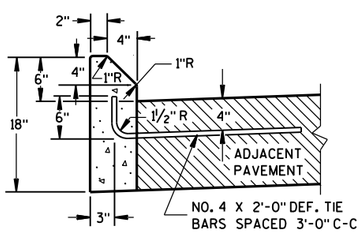
⑥ REVERSE SLOPE GUTTER

(TYPICAL FOR ALL CURB & GUTTER TYPES)



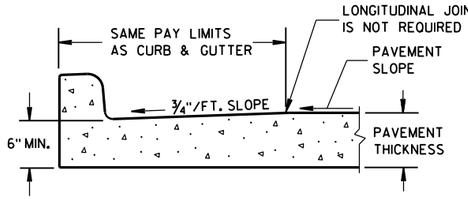
① TYPES A & D

CONCRETE CURB & GUTTER 18"

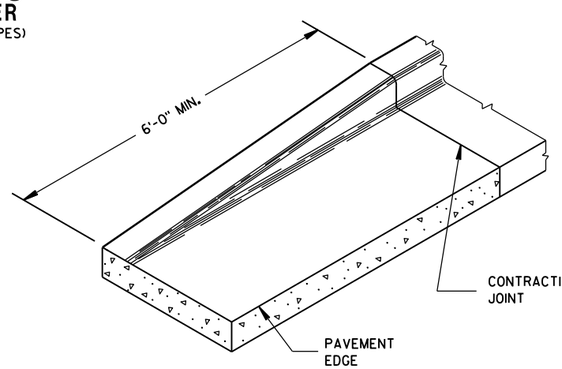


① TYPES G & J

CONCRETE CURB



PARTIAL SECTION OF PAVEMENT WITH INTEGRAL CURB & GUTTER



END SECTION CURB & GUTTER

CONCRETE CURB, CONCRETE CURB & GUTTER AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June, 2016 — DATE

/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA

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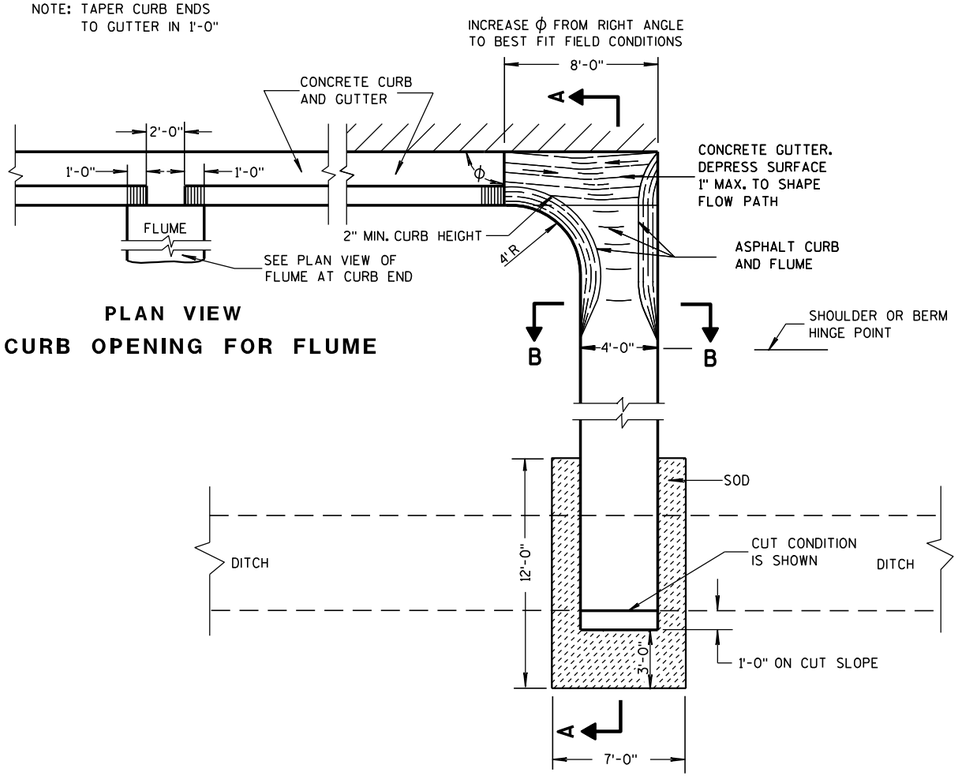
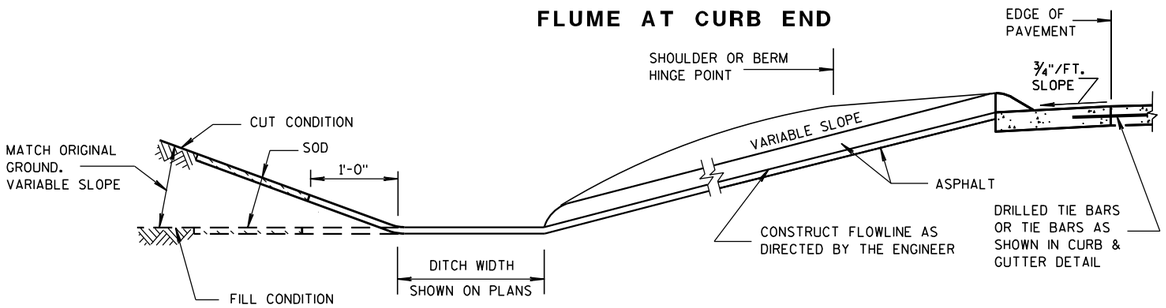
ASPHALTIC FLUME

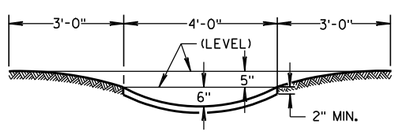


PLAN VIEW
CURB OPENING FOR FLUME

PLAN VIEW
FLUME AT CURB END



SECTION A-A



SECTION B-B

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

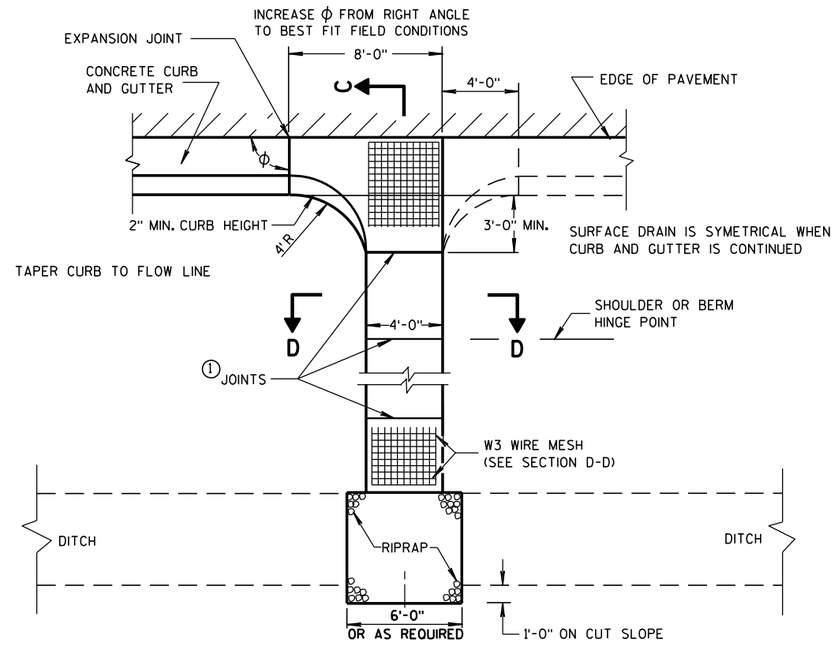
WELDED STEEL WIRE FABRIC SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

① JOINTS SHALL BE $\frac{1}{8}$ TO $\frac{1}{4}$ INCH WIDE BY $1\frac{1}{2}$ INCHES DEEP AND SPACED AT UNIFORM INTERVALS OF APPROXIMATELY 4 FEET.

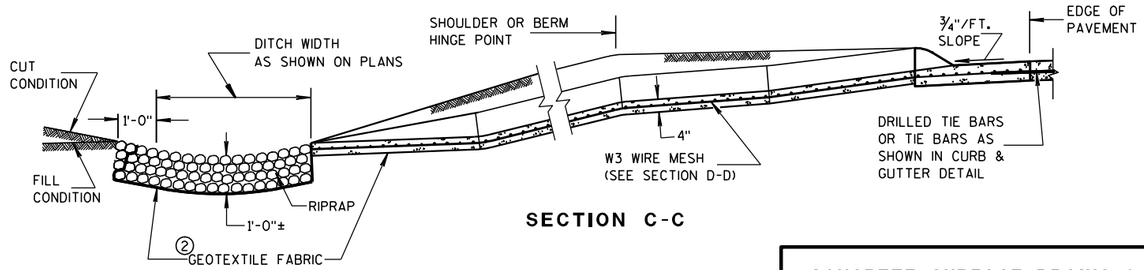
② GEOTEXTILE FABRIC TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.

③ CONCRETE SURFACE DRAIN WITHOUT CURB AND GUTTER MAY BE USED ON BACKSLOPES WHEN SPECIFIED

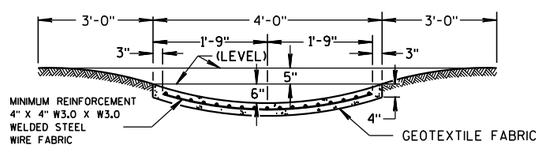
③ CONCRETE SURFACE DRAIN



PLAN VIEW



SECTION C-C



SECTION D-D

CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
9-4-08 DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER
MENT
FHWA

6

S.D.D. 8 D 4-5

6

S.D.D. 8 D 4-5

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(1) UNPERFORATED PIPE UNDERDRAIN AND FITTINGS FURNISHED FOR OUTFALL PIPE SHALL MEET THE REQUIREMENTS OF ONE OF THE FOLLOWING SPECIFICATIONS:

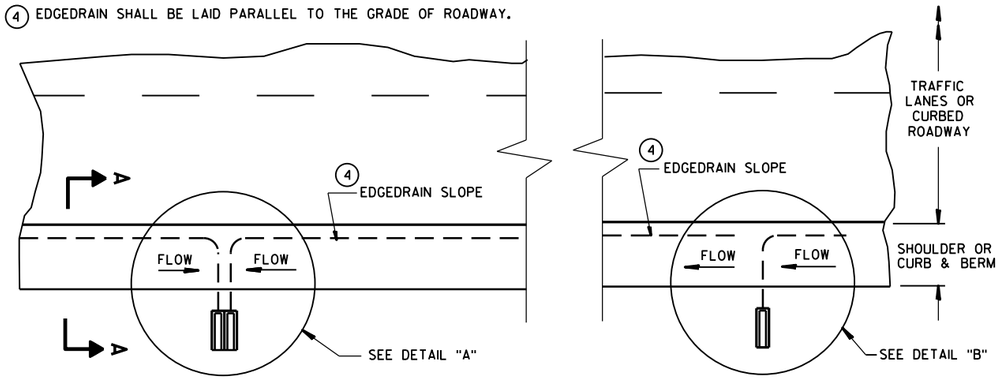
POLYVINYL CHLORIDE (PVC) PLASTIC DRAIN, WASTE, AND VENT PIPE AND FITTINGS, ASTM D 2665, SCHEDULE 40 PVC.

TYPE PSM POLYVINYL CHLORIDE (PVC) SEWER PIPE AND FITTINGS, ASTM D 3034, SDR 23.5 PVC SEWER PIPE.

(2) MAXIMUM SPACING OF EDGEDRAIN OUTLETS SHALL BE 250 FEET UNLESS OTHERWISE SPECIFIED IN THE CONTRACT OR DIRECTED BY THE ENGINEER.

(3) EDGEDRAIN SHALL BE CONNECTED TO INLETS REGARDLESS OF FLOW DIRECTION FOR DRAINAGE AND MAINTENANCE ACCESS.

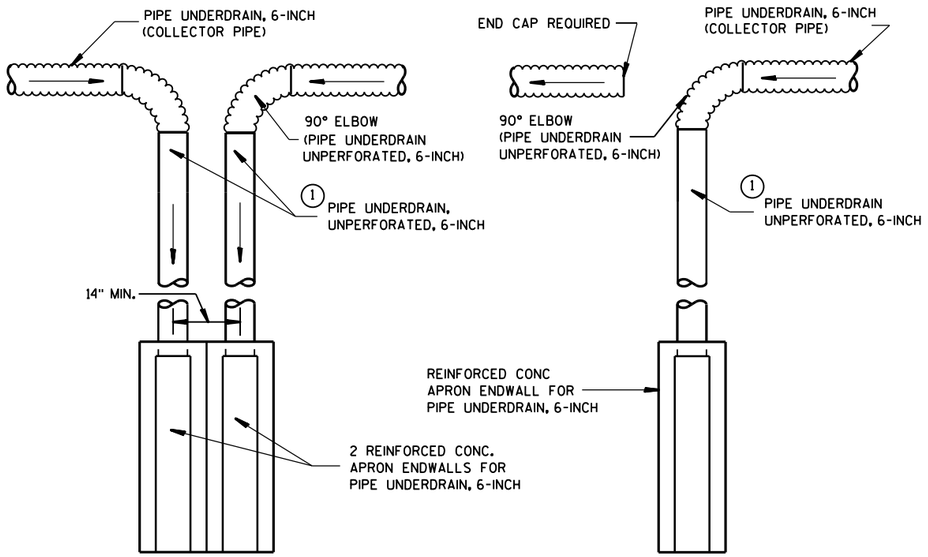
(4) EDGEDRAIN SHALL BE LAID PARALLEL TO THE GRADE OF ROADWAY.



PLAN VIEW

ROADWAY WITH SHOULDERS OR CURBS

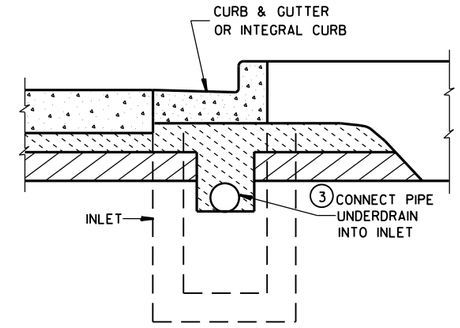
(EDGEDRAIN OUTLETS TO ROADSIDE)(2)



DETAIL "A"
TO BE USED AT LOW POINT LOCATIONS

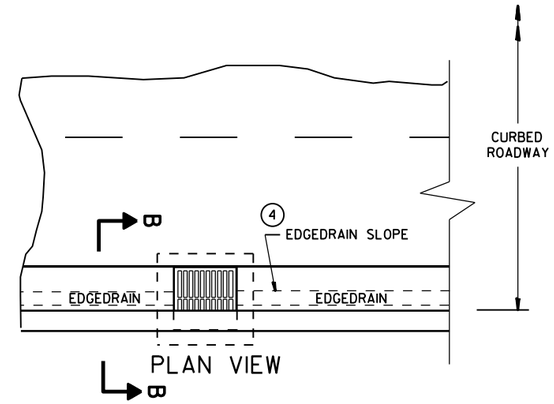
DETAIL "B"
TO BE USED AT INTERMEDIATE LOCATIONS

TYPICAL DRAIN OUT DETAILS



SECTION B-B

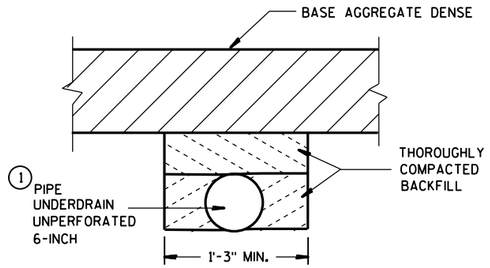
URBAN CROSS SECTION



PLAN VIEW

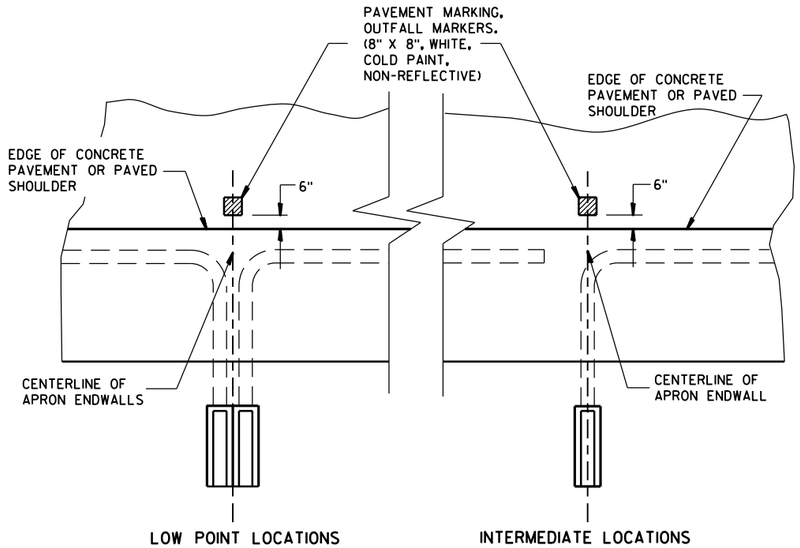
ROADWAY WITH CURBS

(EDGEDRAIN CONNECTS INTO INLET STRUCTURE)



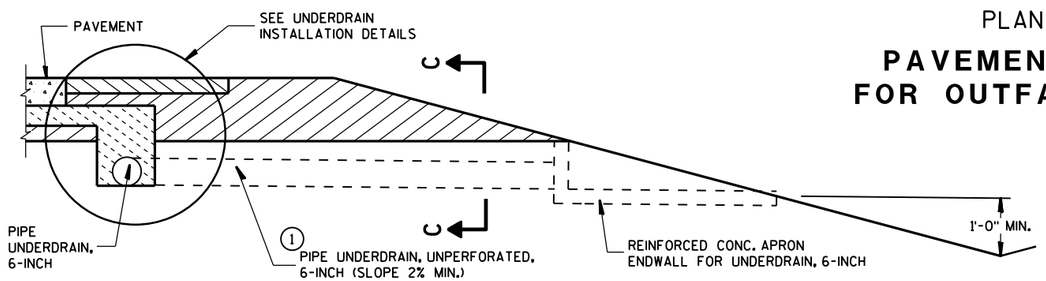
SECTION C-C

(TRENCH FOR OUTFALL PIPE)



PLAN VIEW

PAVEMENT MARKING FOR OUTFALL MARKERS



SECTION A-A

RURAL CROSS SECTION

EDGEDRAIN OUTLET AND OUTFALL MARKERS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 8 D 15-5a

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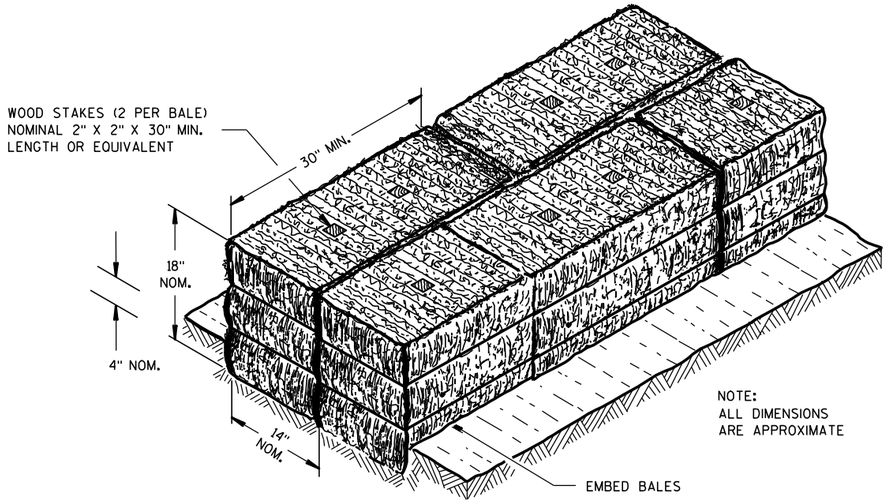
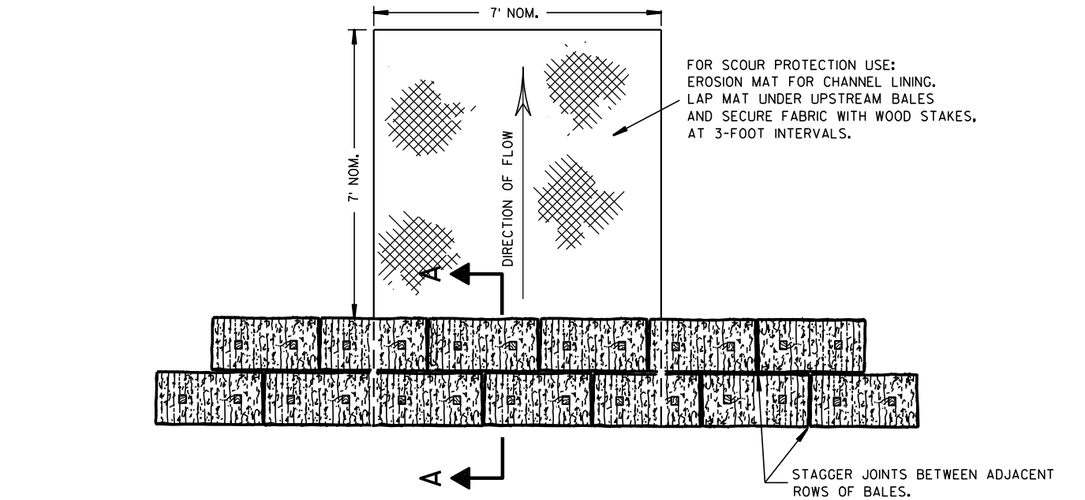
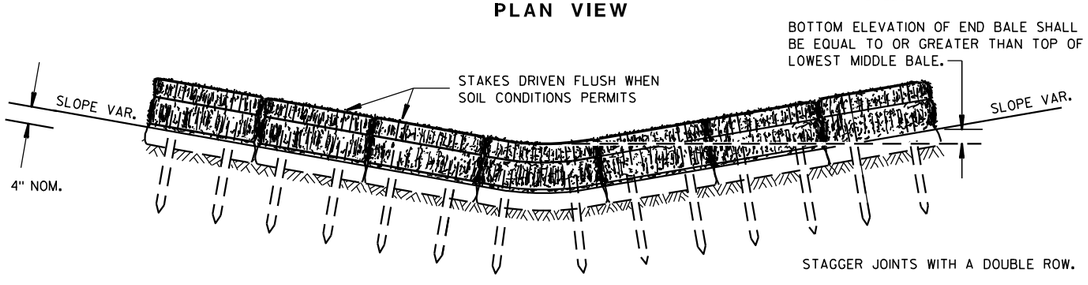
S.D.D. 8 D 15-5a



SECTION A-A



PLAN VIEW



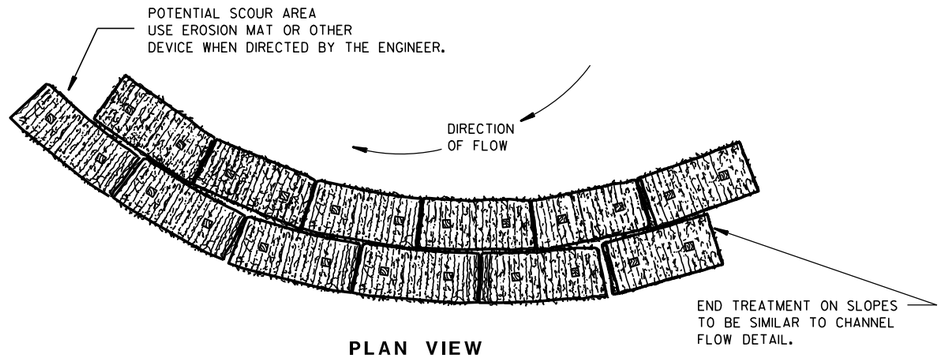
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES ①

GENERAL NOTES

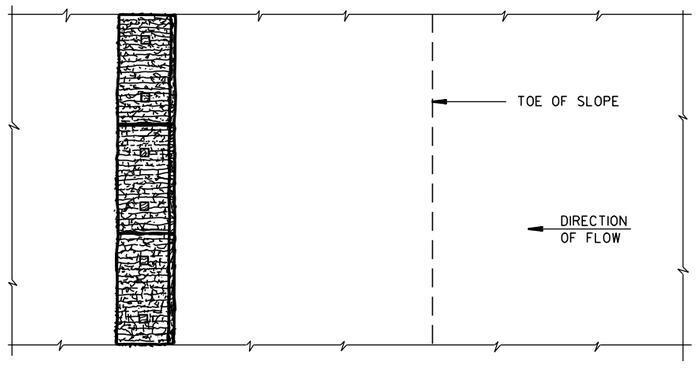
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

① TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.

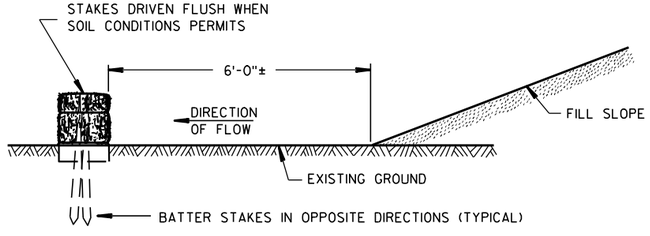


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

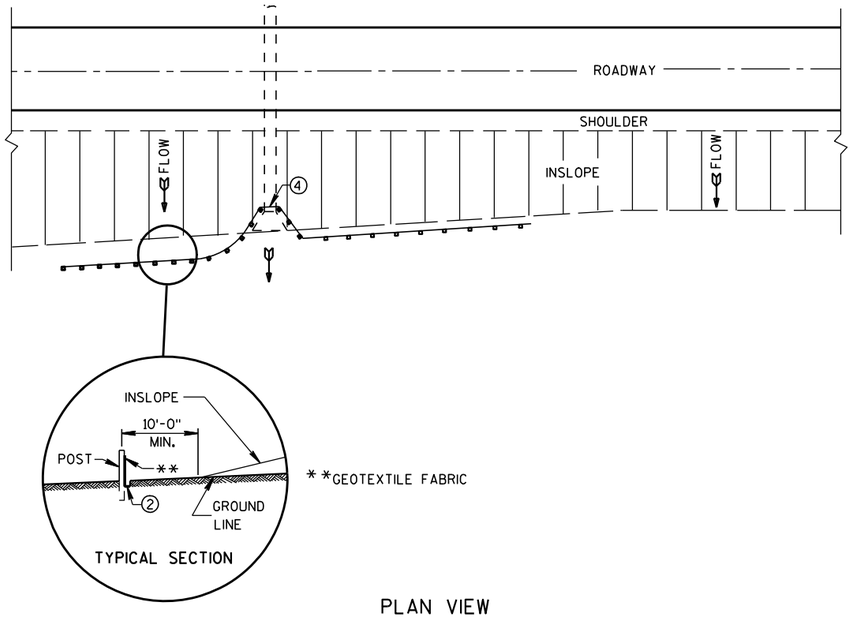
EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

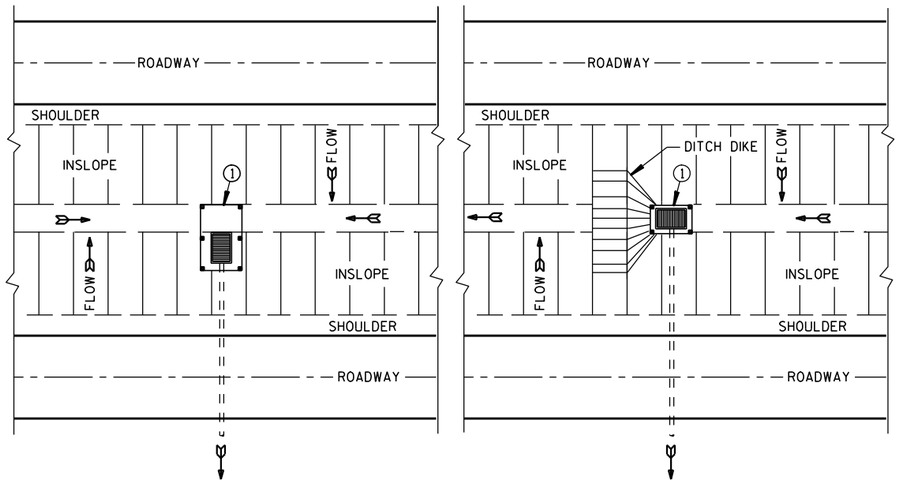
APPROVED
6/04/02 DATE
/S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6
S.D.D. 8 E 8-3



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



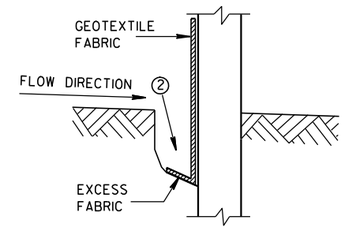
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

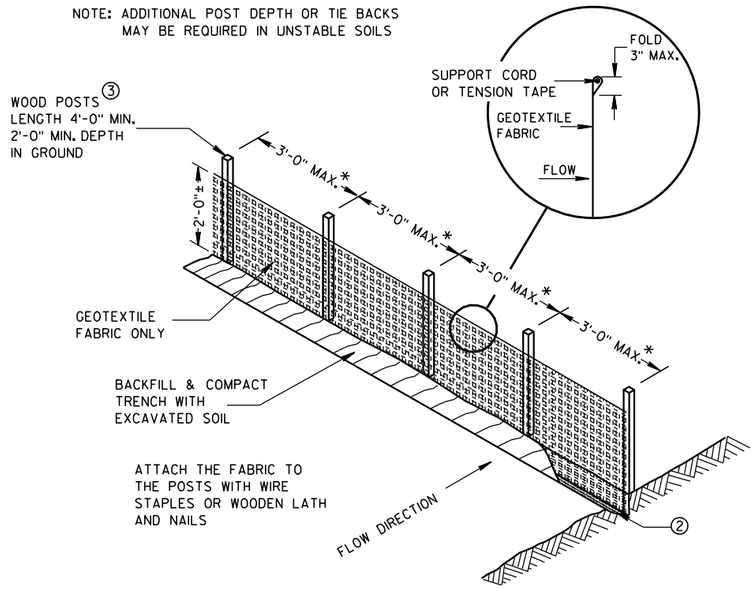
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

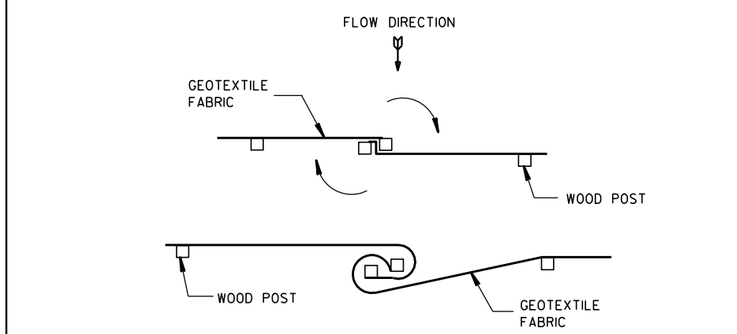
1. HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
2. FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.
4. SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
5. CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



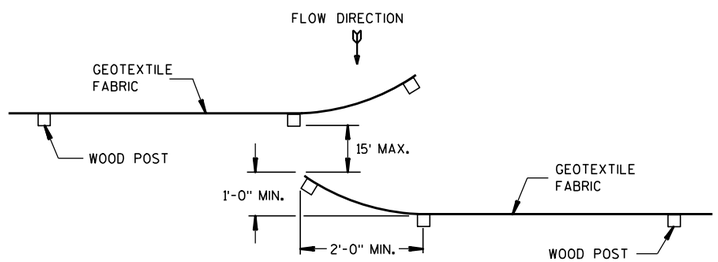
TRENCH DETAIL



SILT FENCE

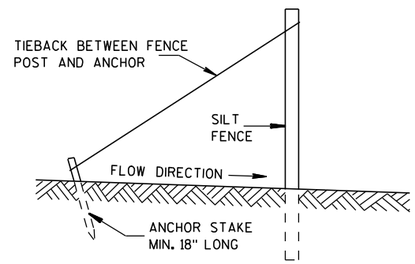


TWIST METHOD



HOOK METHOD

JOINING TWO LENGTHS OF SILT FENCE 5



SILT FENCE TIE BACK

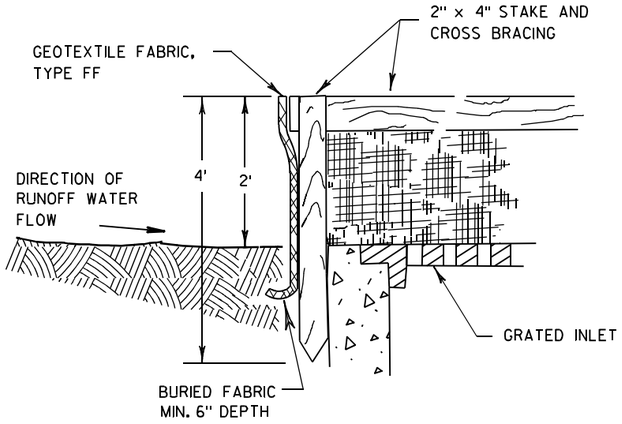
(WHEN REQUIRED BY THE ENGINEER)

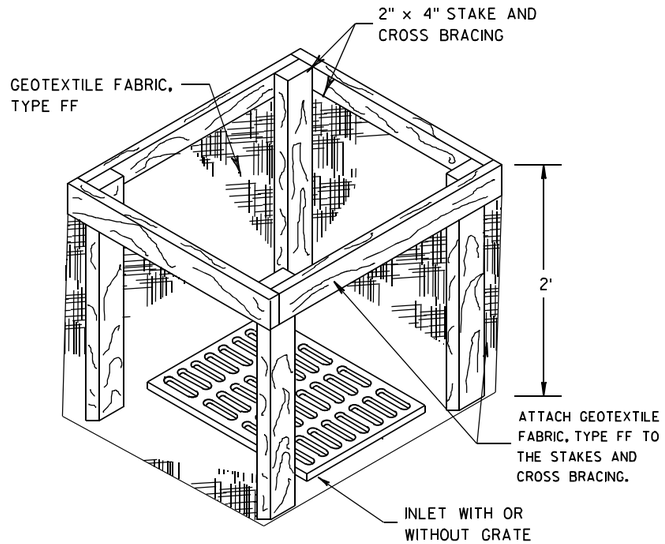
SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

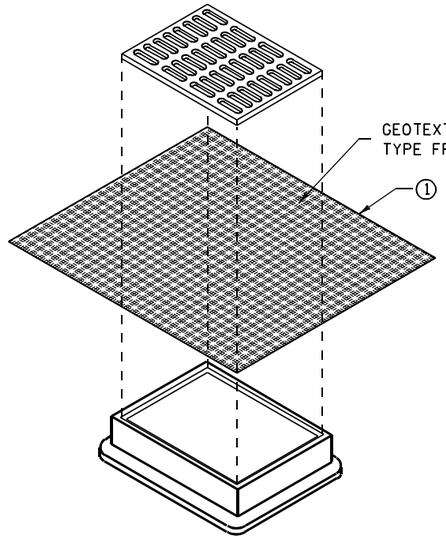
APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6
S.D.D. 8 E 9-6



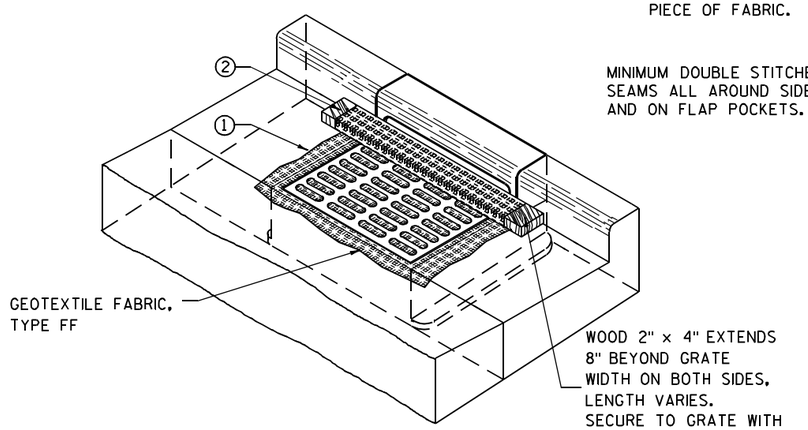


INLET PROTECTION, TYPE A

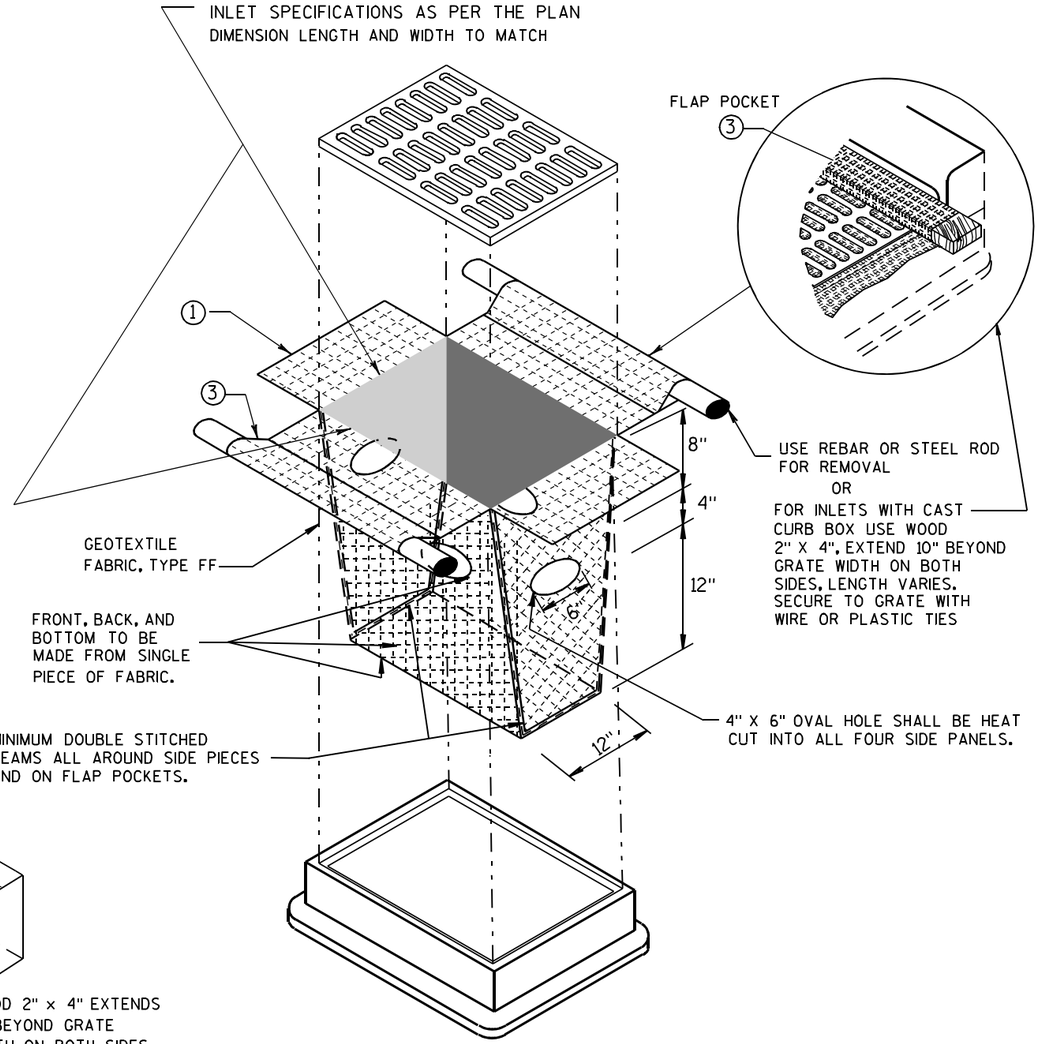


INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE C (WITH CURB BOX)



INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH
OR WITHOUT A CURB BOX AS PER NOTE ②)

GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION
TYPE A, B, C, AND D

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

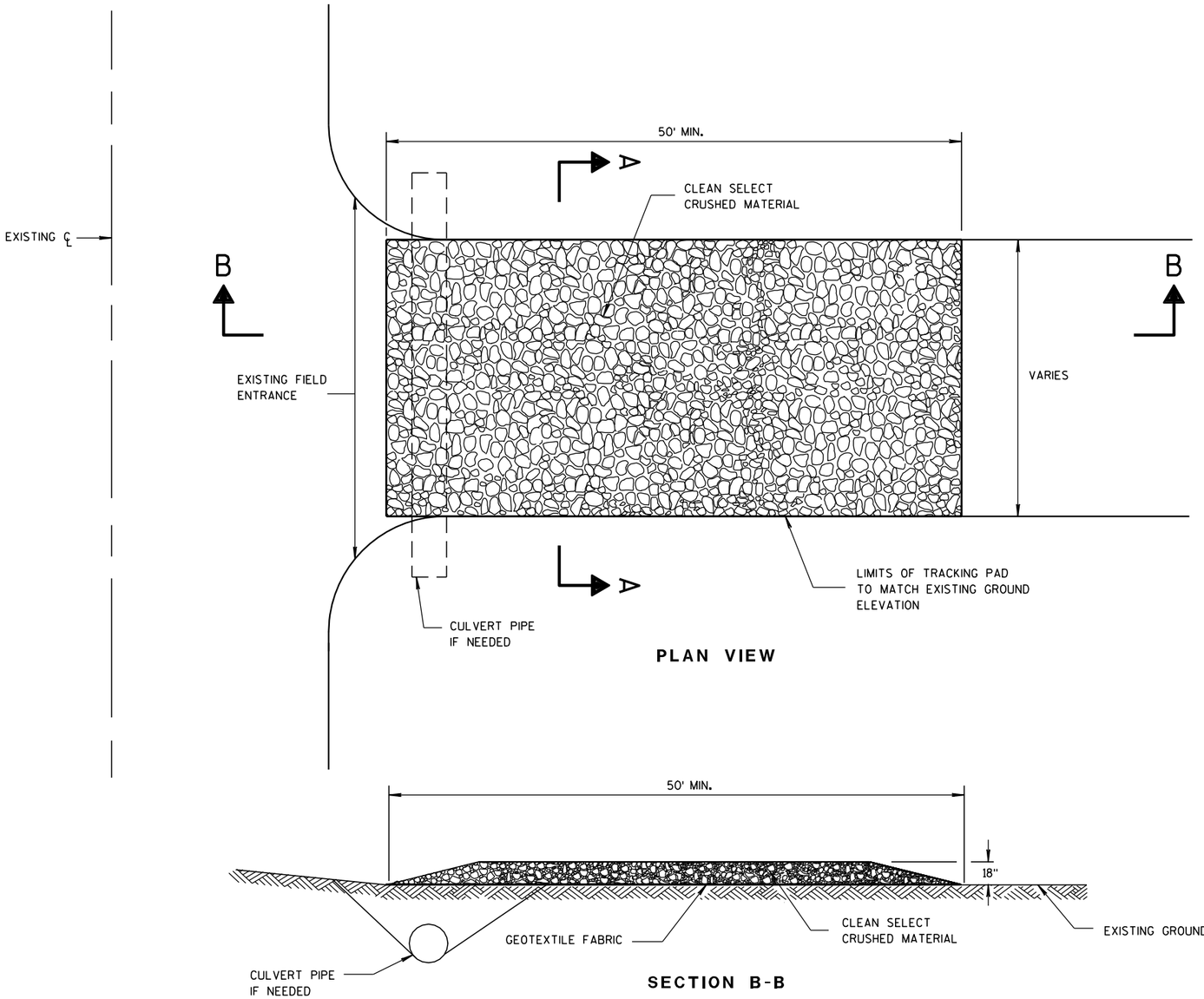
APPROVED

10/16/02
DATE

/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

6
S.D.D. 8 E 10-2



PLAN VIEW

SECTION B-B

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

TRACKING PAD SHALL BE INSPECTED DAILY. DEFICIENT AREAS SHALL BE REPAIRED OR REPLACED IMMEDIATELY.

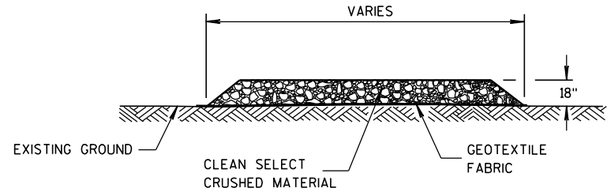
TRACKING PAD TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

TRACKING PAD SHALL BE THE FULL WIDTH OF THE EGRESS POINT.

SURFACE WATER MUST BE PREVENTED FROM PASSING THROUGH THE TRACKING PAD. FLOWS SHALL BE DIVERTED AWAY, AROUND OR CONVEYED UNDER THE TRACKING PAD.

CULVERT PIPE OR OTHER BMP USED TO DIVERT WATER AWAY, AROUND OR UNDER THE TRACKING PAD SHALL BE DESIGNED TO CONVEY THE 2 YEAR - 24 HOUR EVENT.

THE COST OF ADDITIONAL BMP TO DIVERT WATER ARE INCIDENTAL TO THE TRACKING PAD BID ITEM.



SECTION A-A

TRACKING PAD

TRACKING PAD	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 3/24/2011 DATE FHWA	/S/ Jerry H. Zoda ROADWAY STANDARDS ENGINEER

6

S.D.D. 8 E 14-1

6

S.D.D. 8 E 14-1

METAL APRON ENDWALLS

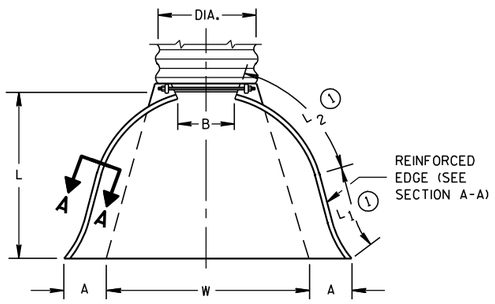
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	36	2 1/2 to 1	1 Pc.
21	.064	.060	9	12	6	36	18	29 5/8	42	2 1/2 to 1	1 Pc.
24	.064	.075	10	13	6	41	18	37 1/4	48	2 1/2 to 1	1 Pc.
30	.079	.075	12	16	8	51	18	52 1/4	60	2 1/2 to 1	1 Pc.
36	.079	.105	14	19	9	60	24	59 3/4	72	2 1/2 to 1	2 Pc.
42	.109	.105	16	22	11	69	24	75 5/8	84	2 1/2 to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 1/4 to 1	3 Pc.
54	.109	.105	18	30	12	84	30	85 1/2	102	2 1/4 to 1	3 Pc.
60	.109×	.105×	18	33	12	87	—	—	114	2 to 1	3 Pc.
66	.109×	.105×	18	36	12	87	—	—	120	2 to 1	3 Pc.
72	.109×	.105×	18	39	12	87	—	—	126	2 to 1	3 Pc.
78	.109×	.105×	18	42	12	87	—	—	132	1 1/2 to 1	3 Pc.
84	.109×	.105×	18	45	12	87	—	—	138	1 1/2 to 1	3 Pc.
90	.109×	.105×	18	37	12	87	—	—	144	1 1/2 to 1	3 Pc.
96	.109×	.105×	18	35	12	87	—	—	150	1 1/2 to 1	3 Pc.

× EXCEPT CENTER PANEL SEE GENERAL NOTES

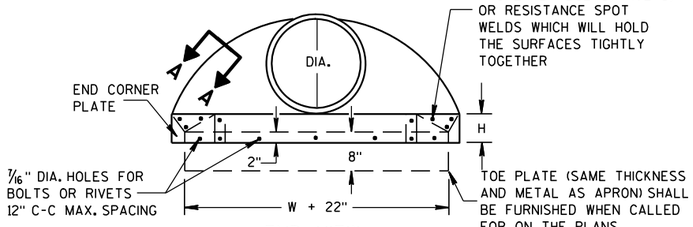
REINFORCED CONCRETE APRON ENDWALLS

PIPE DIA. (IN.)	DIMENSIONS (Inches) T	A	B	C	D	E	G	APPROX. SLOPE
12	2	4	24	48 7/8	72 1/8	24	2	3 to 1
15	2 1/4	6	27	46	73	30	2 1/4	3 to 1
18	2 1/2	9	27	46	73	36	2 1/2	3 to 1
21	2 3/4	9	36	37 1/2	73 1/2	42	2 3/4	3 to 1
24	3	9 1/2	43 1/2	30	73 1/2	48	3	3 to 1
27	3 1/4	10 1/2	49 1/2	24	73 1/2	54	3 1/4	3 to 1
30	3 1/2	12	54	19 3/4	73 1/2	60	3 1/2	3 to 1
36	4	15	63	34 3/4	97 3/4	72	4	3 to 1
42	4 1/2	21	63	35	98	78	4 1/2	3 to 1
48	5	24	72	26	98	84	5	3 to 1
54	5 1/2	27	65	* 33 1/4 - ** 35	* 98 1/4 - ** 100	90	5 1/2	2 2/5 to 1
60	6	* 30 - ** 35	60	39	99	96	5	2 to 1
66	6 1/2	* 24 - ** 30	* 72 - ** 78	* 21 - ** 27	99	102	5 1/2	2 to 1
72	7	* 24 - ** 36	78	21	99	108	6	2 to 1
78	7 1/2	* 24 - ** 36	78	21	99	114	6 1/2	2 to 1
84	8	36	90 1/2	21	111 1/2	120	6 1/2	1 1/2 to 1
90	8 1/2	41	87 1/2	24	111 1/2	132	6 1/2	1 1/2 to 1

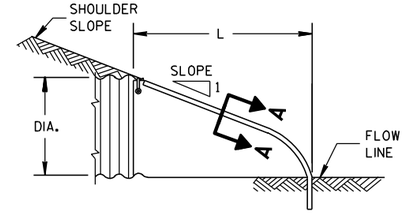
*MINIMUM
**MAXIMUM



PLAN VIEW

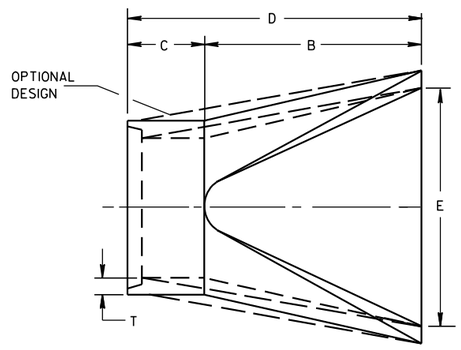


END VIEW

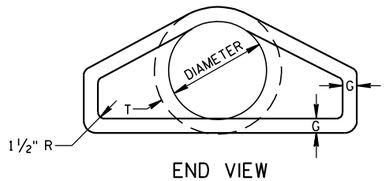


SIDE ELEVATION

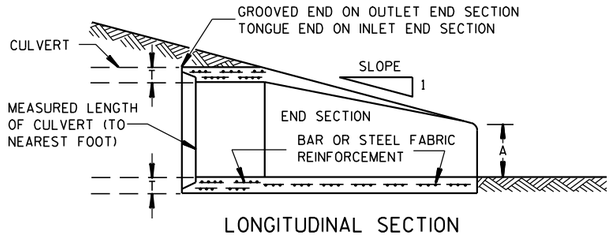
METAL ENDWALLS



PLAN

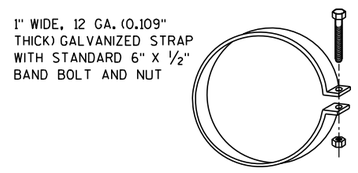


END VIEW



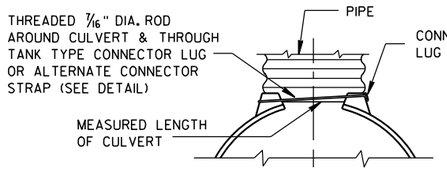
LONGITUDINAL SECTION

CONCRETE ENDWALLS

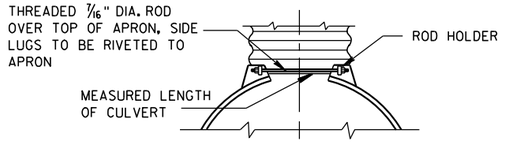


ALTERNATE FOR TYPE 1 CONNECTION

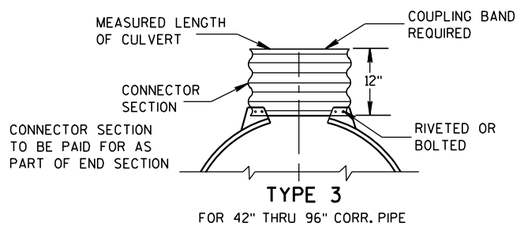
END SECTION CONNECTOR STRAP



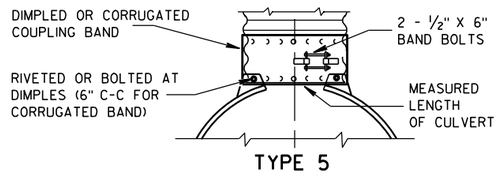
TYPE 1
FOR 12" THRU 24" CORR. PIPE



TYPE 2
FOR 30" THRU 96" CORR. PIPE



TYPE 3
FOR 42" THRU 96" CORR. PIPE



TYPE 5
ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

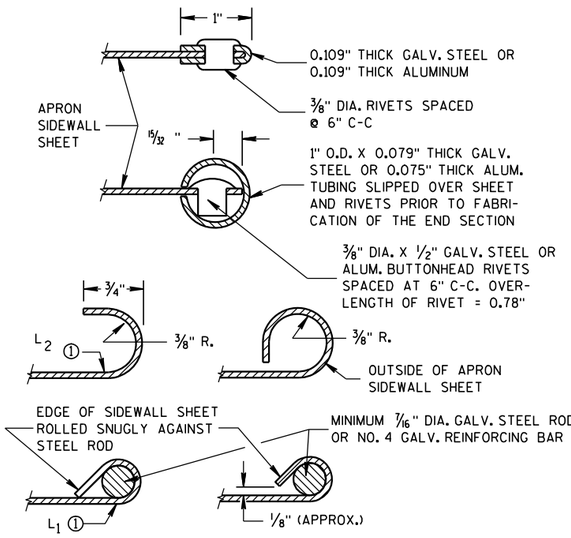
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5 AS APPLICABLE.

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

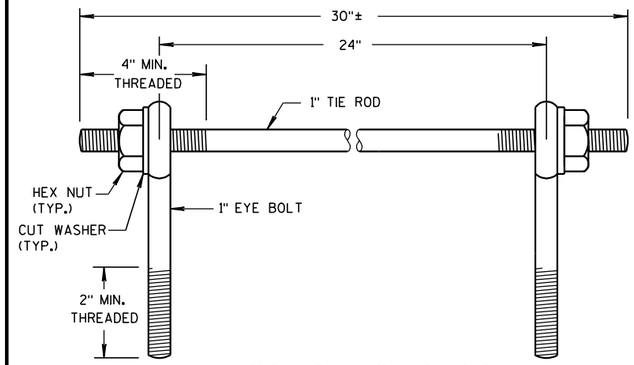
APRON ENDWALLS FOR CULVERT PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

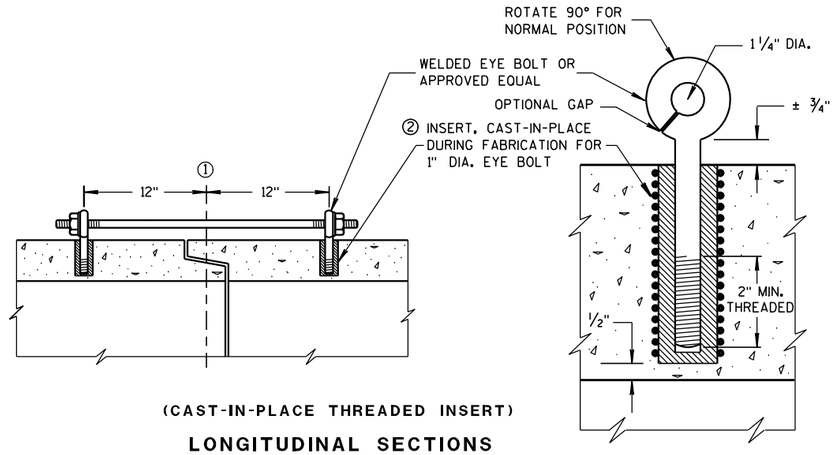
APPROVED
11/30/94 DATE
/S/ Rory L. Rhinesmith CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 8 F 1-11



EYE BOLTS AND TIE ROD



(CAST-IN-PLACE THREADED INSERT)

LONGITUDINAL SECTIONS

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 1)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT AND STORM SEWER PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED IN THE STANDARD SPECIFICATIONS AND THE PLAN. THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR DRAINAGE STRUCTURES. ONLY ALTERNATE 1 AND 3 MAY BE USED FOR CATTLE PASSES, UNLESS OTHERWISE STATED IN THE CONTRACT. THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE THE PIPE BY THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO THE PIPE AND APRON ENDWALLS IF REQUIRED.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

JOINT TIES TO BE HOT-DIP GALVANIZED PER ASTM A 153.

① ℄ OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.

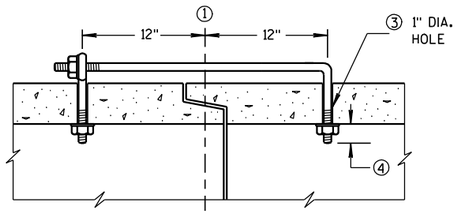
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

③ HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12 INCHES FROM ℄ OF TONGUE AND GROOVE.

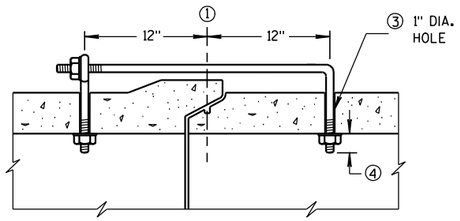
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

⑤ OPENING TO BE ROD DIAMETER PLUS 1 INCH.

⑥ LENGTH ADEQUATE TO EXTEND TO WITHIN 1/2 INCH OF THE INNER SURFACE OF THE PIPE.



(TONGUE & GROOVE PIPE)

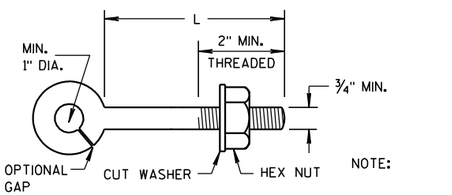


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

EYE BOLT DIMENSION TABLE

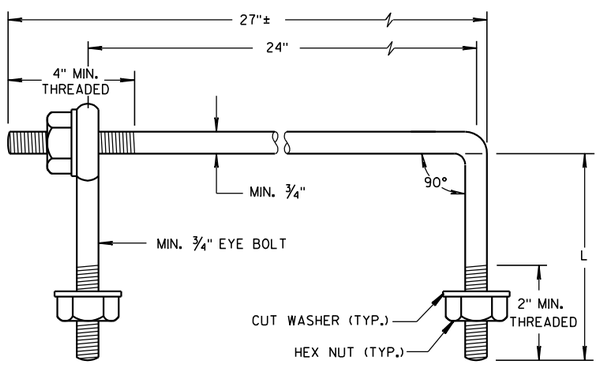
PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	



NOTE:

EYE BOLT

NOTE: TWO EYE BOLTS MAY BE USED WITH A 30" LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.



EYE BOLT AND TIE ROD

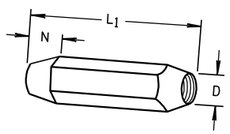
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 2)

ADJUSTABLE TIE ROD TABLE

PIPE DIAMETER	TIE ROD DIAMETER	D	L_1	N
12-60	5/8	5/8	5	1/2
66-84	3/4	3/4	5	1/2
90-108	1	1	7	1 1/16

DIMENSIONS SHOWN ARE IN INCHES



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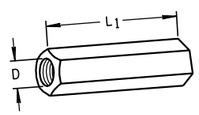
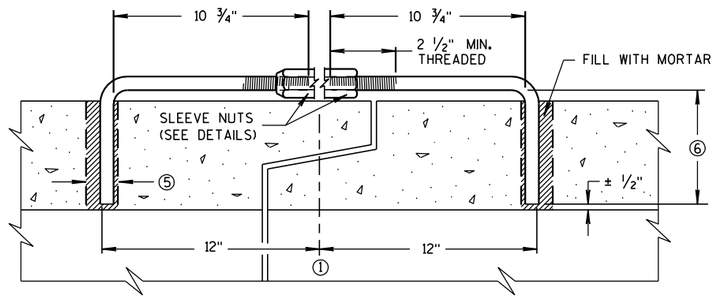


PLAIN

RIGHT AND LEFT THREADS

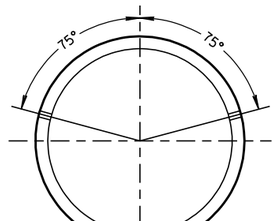
SLEEVE NUTS



LONGITUDINAL SECTION

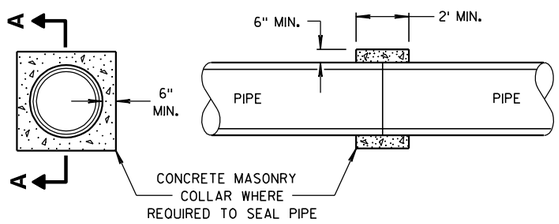
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



PLACEMENT OF (2) CAST-IN-PLACE INSERTS OR HOLES DURING FABRICATION FOR PIPE SECTIONS REQUIRING TIE RODS

TRANSVERSE SECTION



SECTION A-A

CONCRETE COLLAR DETAIL

JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

6

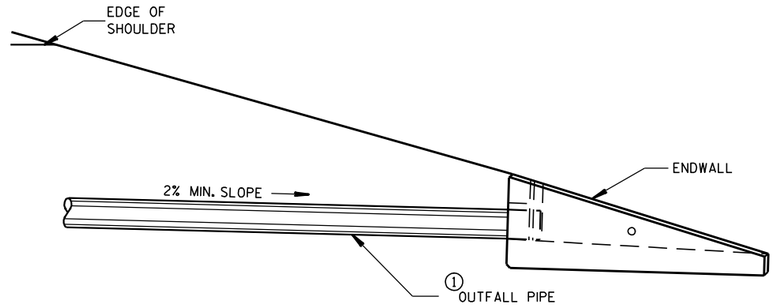
S.D.D. 8 F 4-7

6

S.D.D. 8 F 4-7

DIMENSIONS IN INCHES											
PIPE DIA.	A	B	C	D	E	F	G	H	J	L	Z
**4	6	12	5 1/4	9	8	32	36	11	2 3/8	6 1/2	4
6	8	14	7 1/4	11	10	42	44	13	3 5/8	8 1/2	6

**APRON ENDWALL FOR 6 INCH DIAMETER PIPE MAY BE SUBSTITUTED FOR THIS SIZE PROVIDED THE HOLE IN THE HEADWALL IS SIZED AND LOCATED TO CONFORM TO THE 4 INCH DIAMETER PIPE DIMENSIONS (C & J)



INSTALLATION DETAIL

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

ALTERNATIVE DESIGNS WHICH PROVIDE EQUIVALENT CAPACITY AND STRENGTH MAY BE USED WHEN APPROVED BY THE ENGINEER. ENDWALL MAY BE EITHER PRECAST OR CAST-IN-PLACE CONCRETE.

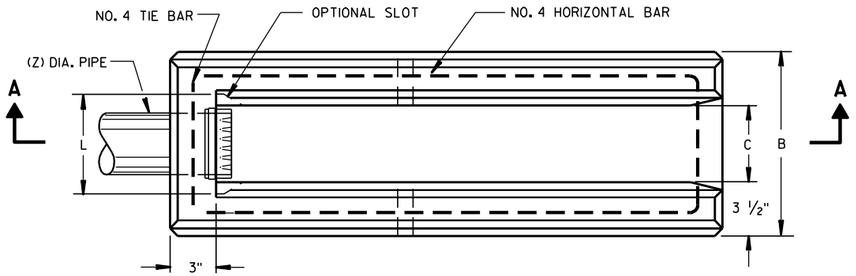
THE UNDERDRAIN PIPE SHALL BE FULLY INSERTED AND SEALED INTO THE ENDWALL WITH CEMENT MORTAR PRIOR TO BACKFILLING AROUND THE STRUCTURE.

THE UPPERMOST POINT OF THE ENDWALL SHALL BE PLACED FLUSH WITH THE ROADWAY SLOPE. ADJACENT EMBANKMENT SLOPES SHALL BE SHAPED TO FIT THE SIDES AND TOE OF THE ENDWALL. EXACT PLACEMENT OF THE OUTFALL PIPE AND ENDWALL SHALL BE DETERMINED BY THE ENGINEER TO MATCH THE ELEVATIONS AND FLOW DIRECTION OF THE ROADSIDE DITCH.

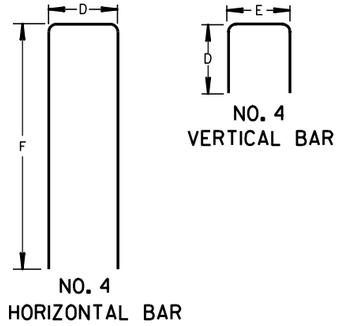
① THE OUTFALL PIPE UNDERDRAIN AND FITTINGS SHALL CONFORM TO THE REQUIREMENTS OF THE SPECIFICATION FOR POLY (VINYL CHORIDE) (PVC) PLASTIC DRAIN, WASTE AND VENT PIPE AND FITTINGS, ASTM DESIGNATION: D 2665, SCHEDULE 40 PVC OR THE STANDARD SPECIFICATION FOR TYPE PSM POLY (VINYL CHORIDE) (PVC) SEWER PIPE AND FITTINGS, ASTM DESIGNATION: D 3034, TYPE PSM SDR 23.5 PVC SEWER PIPE, ALL JOINTS SHALL BE SOLVENT WELDED.

THE OUTFALL PIPE INCLUDING ALL FITTINGS AND THE RODENT SHIELD SHALL BE MEASURED AND PAID FOR AS PIPE UNDERDRAIN UNPERFORATED.

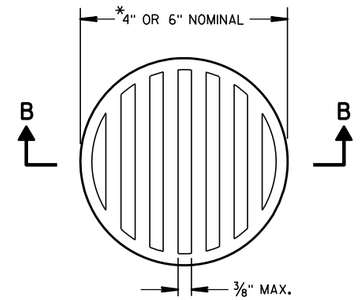
② THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE OUTFALL PIPE. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.



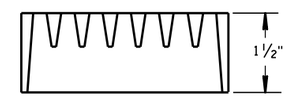
PLAN VIEW



BAR STEEL REINFORCEMENT DETAILS



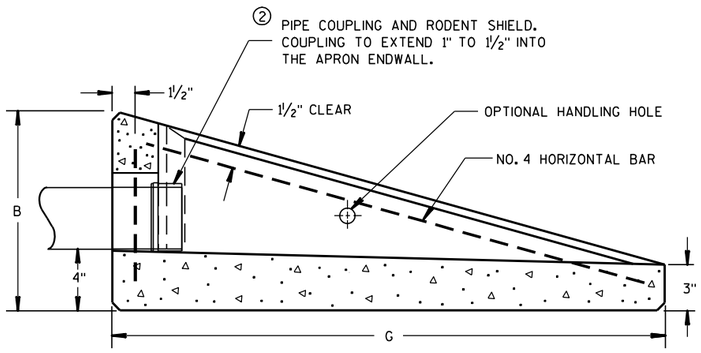
NOTE: ORIENT SHIELD SO SLOTS ARE VERTICAL.



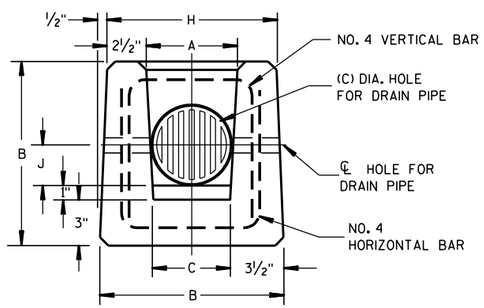
SECTION B-B

② RODENT SHIELD

*NOTE: DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING.



SECTION A-A



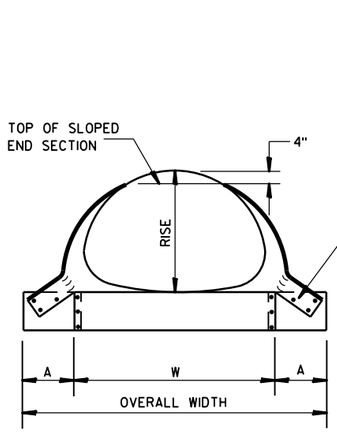
END VIEW

CONCRETE APRON ENDWALL FOR UNDERDRAIN

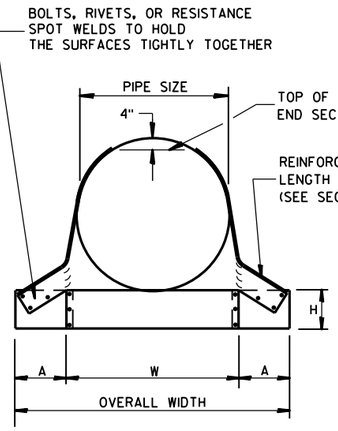
REINFORCED CONCRETE APRON ENDWALL FOR PIPE UNDERDRAIN

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

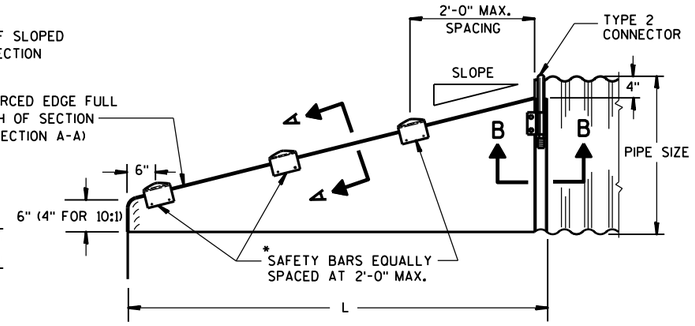
APPROVED
3/10/98 DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA



FRONT VIEW



FRONT VIEW



SIDE VIEW

GENERAL NOTES

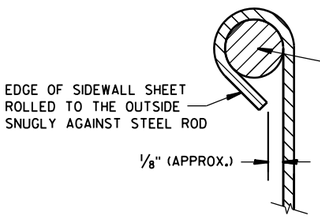
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

SLOPED END SECTIONS SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS, SECTION 521 FOR STEEL APRON ENDWALLS.

SAFETY BARS SHALL BE FABRICATED FROM GALVANIZED STEEL PIPE MEETING THE REQUIREMENTS OF ASTM A-53, GRADE B, SCHEDULE 40 OR APPROVED EQUAL.

STEEL APRON ENDWALLS FOR CULVERT PIPE
SLOPED SIDE DRAINS

PIPE DIA. (IN.)	MIN. THICK. (Inches)	DIMENSIONS (Inches)				L DIMENSIONS					
		A	H	W	OVERALL WIDTH	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES
15	.064	8	6	21	37	4:1	20	6:1	30	10:1	70
18	.064	8	6	24	40	4:1	32	6:1	48	10:1	100
21	.064	8	6	27	43	4:1	44	6:1	66	10:1	130
24	.064	8	6	30	46	4:1	56	6:1	84	10:1	160
30	.109	12	9	36	60	4:1	80	6:1	120	10:1	220
36	.109	12	9	42	66	4:1	104	6:1	156	10:1	280
42	.109	16	12	48	80	4:1	128	6:1	192	——	——
48	.109	16	12	54	86	4:1	152	6:1	228	——	——
54	.109	16	12	60	92	4:1	176	6:1	264	——	——
60	.109	16	12	66	98	4:1	200	6:1	300	——	——



SECTION A-A

*NOTE:
THREE SAFETY BARS ARE SHOWN. ACTUAL NUMBER OF BARS REQUIRED AT A 2'-0" C-C MAX. SPACING WILL VARY DEPENDING ON THE LENGTH OF THE END SECTION.

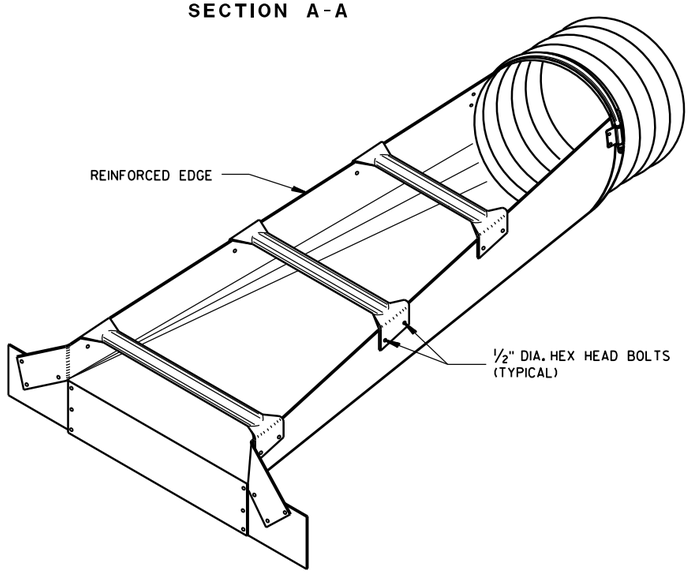
3" GALVANIZED PIPE. FLATTEN ENDS, THEN BEND OUTSIDE 4" TO MATCH END SECTION SIDES.

DETAIL OF SAFETY BAR

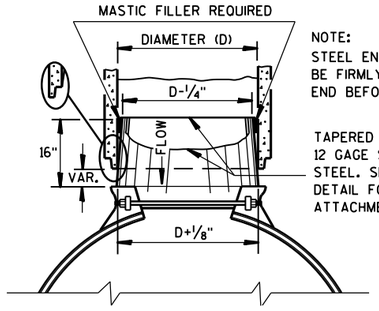
STEEL APRON ENDWALLS FOR PIPE ARCH
SLOPED SIDE DRAINS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) ①	DIMENSIONS (Inches) A	H	W	OVERALL WIDTH	L DIMENSIONS SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES
15	17	13	.064 *	7	6	30	44	4:1	19	6:1	30	10:1 ②	70
18	21	15	.064 *	8	6	27	43	4:1	20	6:1	30	10:1	70
21	24	18	.064 *	8	6	30	46	4:1	32	6:1	48	10:1	100
24	28	20	.064 *	8	6	34	50	4:1	40	6:1	60	10:1	120
30	35	24	.079 *	12	9	41	65	4:1	56	6:1	84	10:1	160
36	42	29	.109 *	12	9	48	72	4:1	76	6:1	114	10:1	210
42	49	33	.109	16	12	55	87	4:1	92	6:1	138	——	——
48	57	38	.109	16	12	63	95	4:1	112	6:1	168	——	——
54	64	43	.109	16	12	70	102	4:1	132	6:1	198	——	——

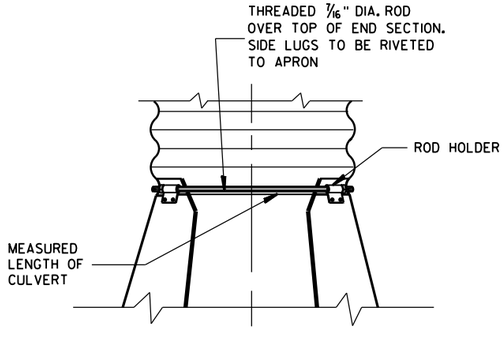
① * MINIMUM THICKNESS OF ALL 10:1 SLOPED SIDE DRAINS IS 0.109".
② ACTUAL SLOPE GREATER THAN 10:1.



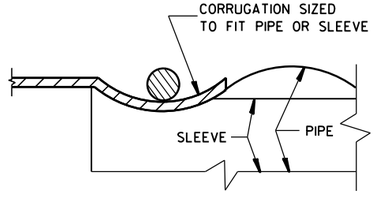
ISOMETRIC VIEW



STEEL ADAPTER SLEEVE FOR CONCRETE PIPE



TYPE 2
CONNECTION DETAIL



SECTION B-B

STEEL APRON ENDWALLS FOR CULVERT PIPE AND PIPE ARCH SLOPED SIDE DRAINS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
9/14/2012 — DATE
/S/ Jerry H. Zoda — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

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S.D.D. 8 F 7-5

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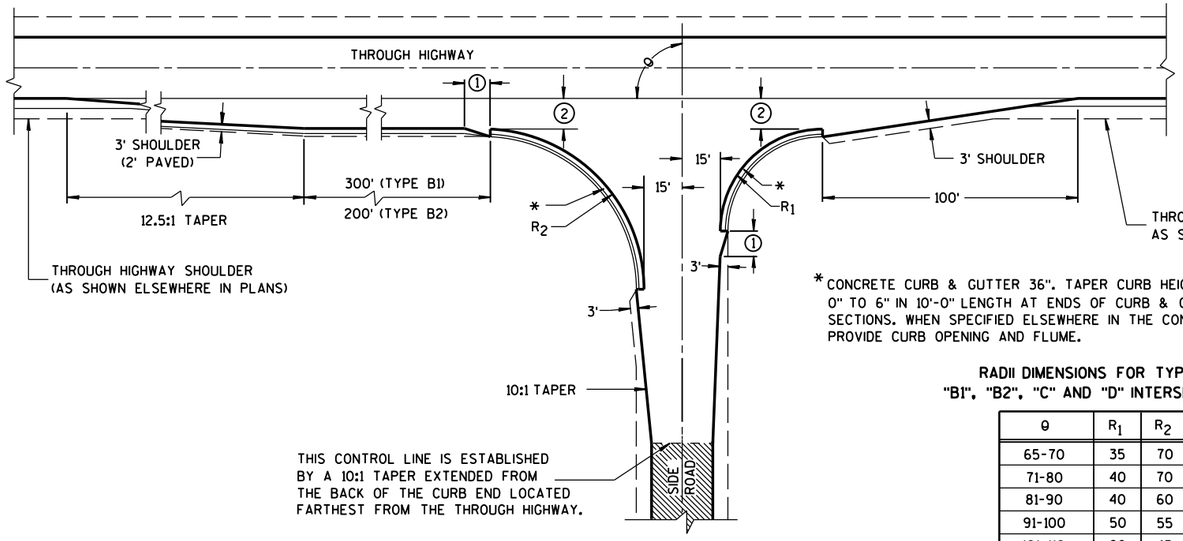
S.D.D. 8 F 7-5

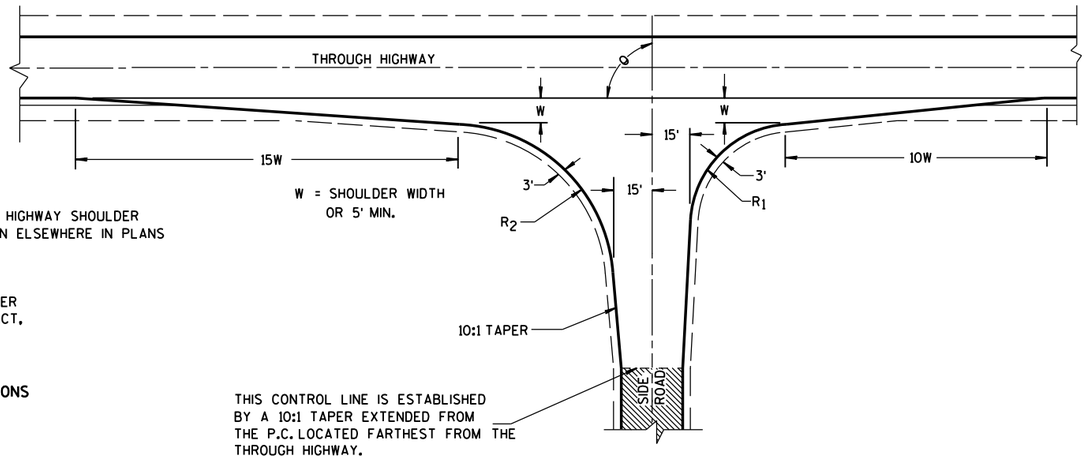


TYPE "B1" AND "B2"

*CONCRETE CURB & GUTTER 36". TAPER CURB HEIGHT 0" TO 6" IN 10'-0" LENGTH AT ENDS OF CURB & GUTTER SECTIONS. WHEN SPECIFIED ELSEWHERE IN THE CONTRACT, PROVIDE CURB OPENING AND FLUME.

RADII DIMENSIONS FOR TYPES "B1", "B2", "C" AND "D" INTERSECTIONS

θ	R_1	R_2
65-70	35	70
71-80	40	70
81-90	40	60
91-100	50	55
101-110	60	45



TYPE "C"

GENERAL NOTES

DESIGNS MAY BE USED INTERCHANGEABLY IN COMBINATION OR SEPARATELY FOR ANY ONE COMPLETE INTERSECTION DEPENDING UPON INTERSECTION ANGLE AND SURFACING OF EACH APPROACH ROADWAY.

SIDE ROAD SURFACING NOTE

WHEN THE SIDE ROAD IS NOT PRESENTLY PAVED, PAVEMENT SHALL BE PLACED TO THE LIMITS SHOWN UNLESS OTHERWISE PROVIDED IN THE CONTRACT. WHERE THE CONSTRUCTION LIMITS ARE BEYOND THE PAVING LIMITS, CRUSHED AGGREGATE SURFACING SHALL BE PLACED BETWEEN THE PAVING LIMITS AND CONSTRUCTION LIMITS.

WHEN THE SIDE ROAD IS PRESENTLY PAVED, NEW PAVEMENT SHALL BE PLACED TO THE LIMITS OF DESIGN AS SHOWN AND BEYOND, IF NECESSARY, TO MEET EXISTING PAVEMENT.

WHEN THE SIDE ROAD IS THE CONSTRUCTION PROJECT, THE INTERSECTION SURFACING SHALL BE THE SAME AS FOR THE PROJECT.

EXISTING PAVED SURFACE

BYPASS LANE

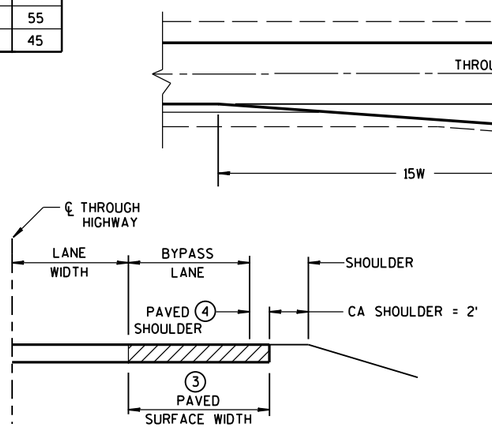
(1) 10-FT TYPICAL.

(2) 12-FT** PLUS ADDITIONAL WIDTH FOR BIKE LANE IF SHOWN ELSEWHERE IN THE PLAN.

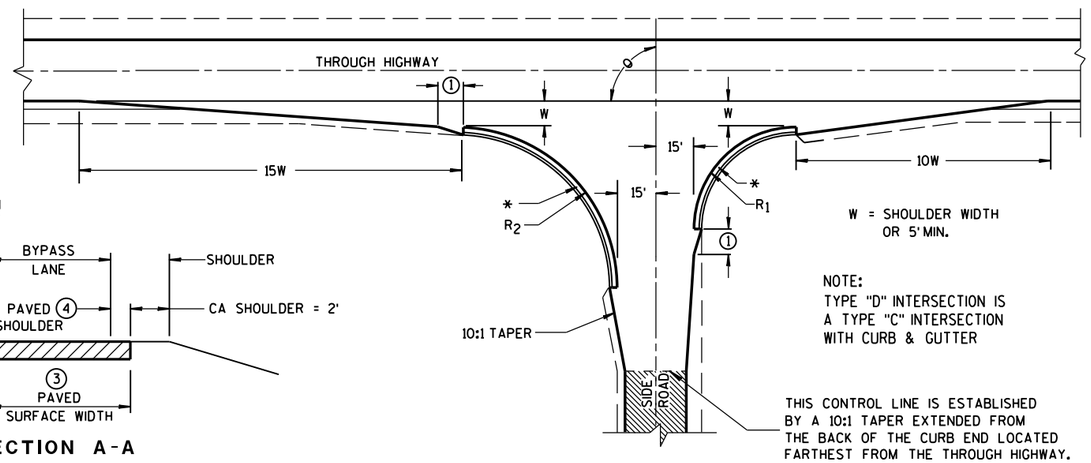
**10-FT MAY BE USED ON TYPE B2 ON RESURFACING PROJECTS IF SPECIFIED IN THE CONTRACT.

(3) BYPASS LANE PAVED SURFACE WIDTH OUTSIDE OF TRAVEL LANE
-ASPHALT = 12-FT PLUS PAVED SHOULDER WIDTH.
-PC CPNCRETE = 13-FT PLUS PAVED SHOULDER WIDTH.

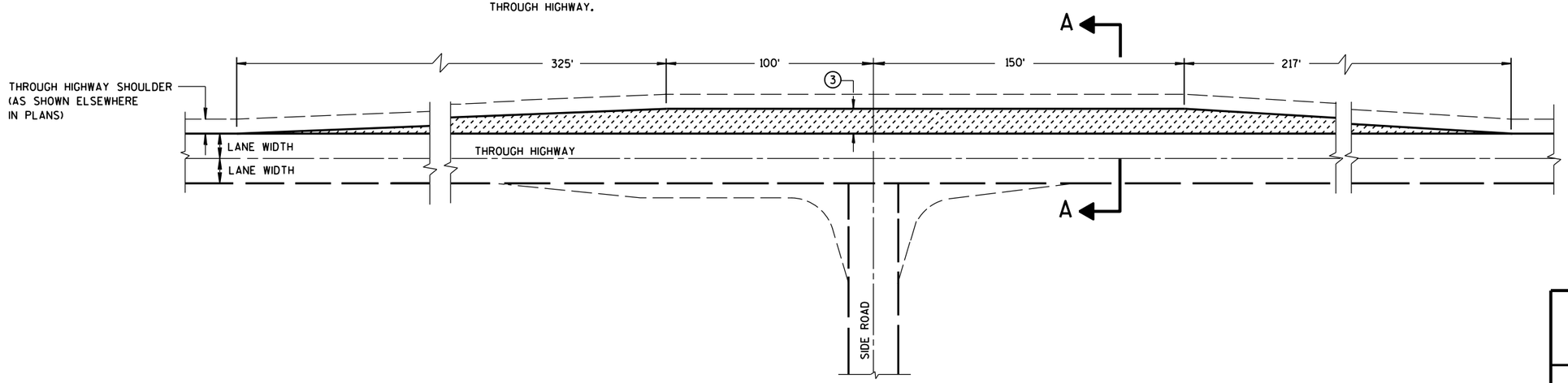
(4) BYPASS LANE PAVED SHOULDER WIDTH = THE GREATER OF 1-FT OR THE PAVED SHOULDER WIDTH OF THE THROUGH HIGHWAY.



SECTION A-A
(SHOWING BYPASS LANE AND SHOULDER)



TYPE "D"



TEE INTERSECTION BYPASS LANE DETAIL

AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND "D" AND TEE INTERSECTION BYPASS LANE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

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S.D.D. 9 A 1-13a

① WOOD OR STEEL POSTS (w6X9 OR w6X8.5) MAY BE USED. DO NOT INTERMIX WOOD AND STEEL POSTS. INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.

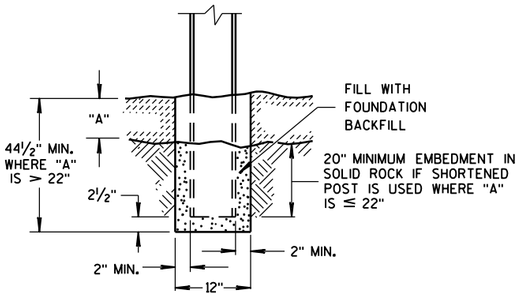
② USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.

③ IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2½ INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS TO BE FREE OF LARGE ROCKS.

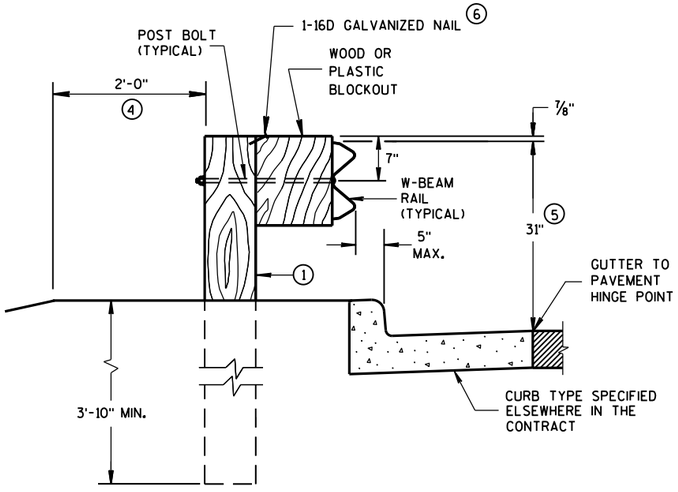
④ WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).

⑤ FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ± 1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27¾" TO 32".

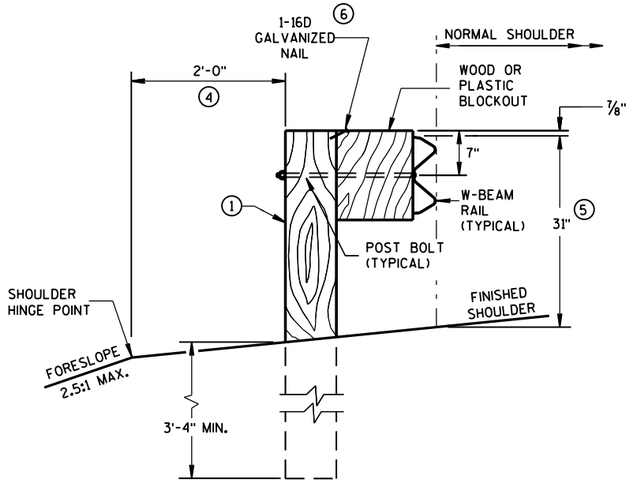
⑥ WHEN USING STEEL POST AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.



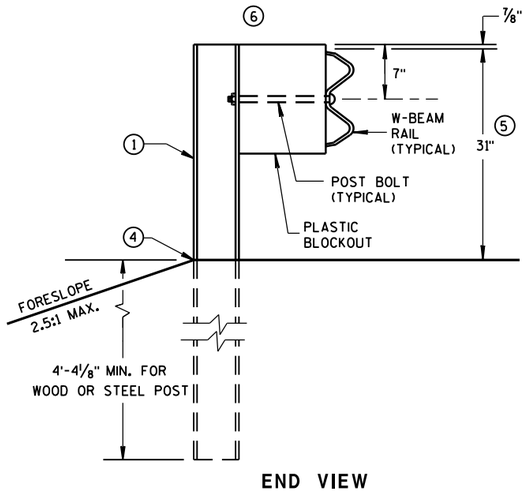
END VIEW
SETTING STEEL OR WOOD POST IN ROCK ③



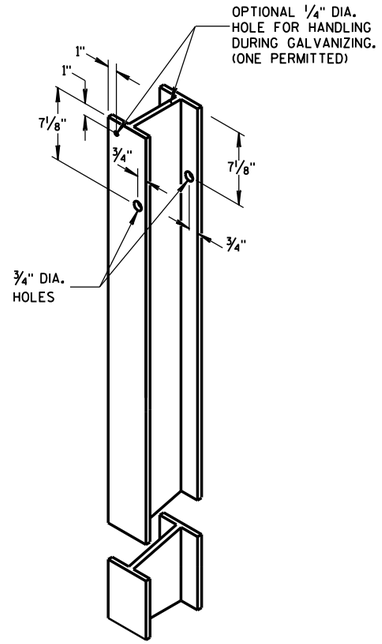
END VIEW
LOCATED ALONG A CURBED ROADWAY



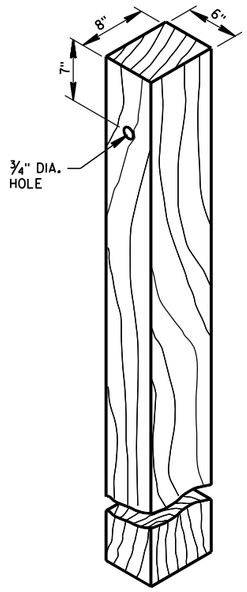
END VIEW
LOCATED ALONG A ROADWAY SHOULDER
STANDARD INSTALLATION



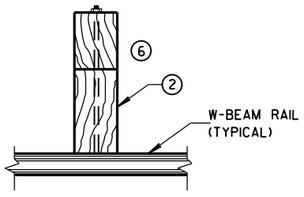
END VIEW
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



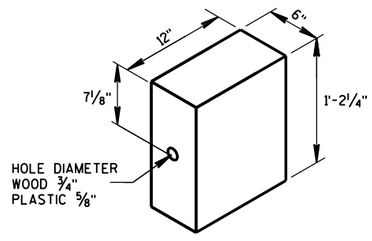
STEEL POST &
HOLE PUNCHING DETAIL
(w6X9) ①



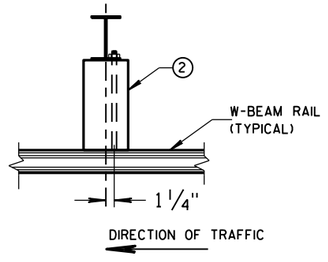
WOOD POST
(6" X 8") NOMINAL ①



PLAN VIEW
WOOD POST,
BLOCKOUT & BEAM



WOOD OR
PLASTIC BLOCKOUT ②



PLAN VIEW
STEEL POST,
PLASTIC BLOCKOUT & BEAM

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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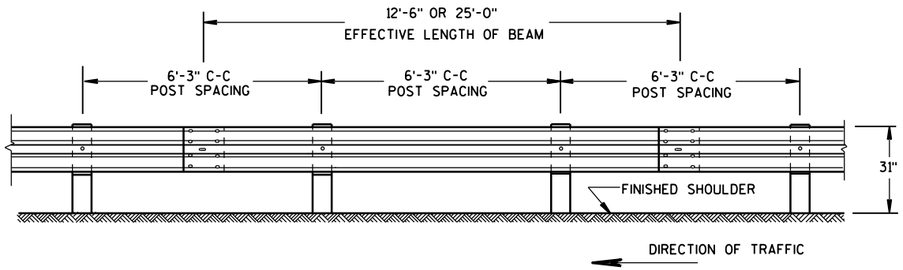
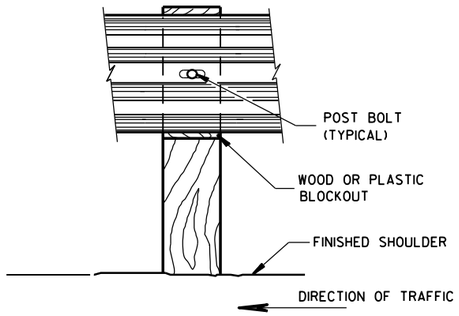
S.D.D. 14 B 42-4a



FRONT VIEW

POST SPACING STANDARD INSTALLATION



FRONT VIEW AT WOOD POST

7. PROVIDE SILVER REFLECTIVE SHEETING ON ALL REFLECTORS EXCEPT THOSE LOCATED ALONG THE LEFT EDGE OF ONE-WAY ROADWAYS, WHICH SHALL BE PROVIDED WITH YELLOW REFLECTIVE SHEETING. SHEETING IS TYPE H. SEE STANDARD SPECIFICATION 637.

8. DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL. RAIL SPLICE LOCATIONS ARE THE ONLY ACCEPTABLE LOCATIONS FOR REFLECTORS.

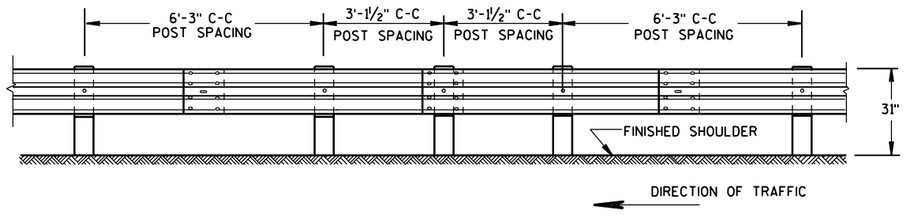
9. REVERSE EVERY OTHER REFLECTOR FOR 2-WAY VISIBILITY. THE CONTRACTOR MAY FURNISH TWO-SIDED REFLECTORS IN LIEU OF ONE-SIDED REFLECTORS.

10. PROVIDE AN ANGLE OF BEND OF 90° ± 1° FOR TWO-SIDED REFLECTORS.

11. 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.

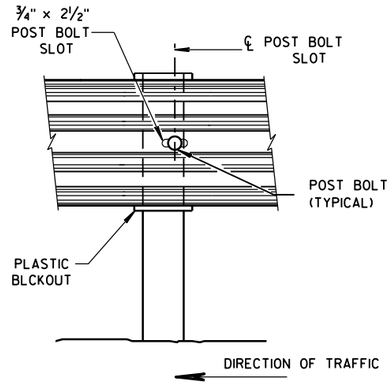
POST BOLTS ARE A 5/8" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT REQUIRES 5/8" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND 5/8" DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS ARE BEING USED.

GUARD RAIL SPLICE BOLTS ARE A 5/8" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES 5/8" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.

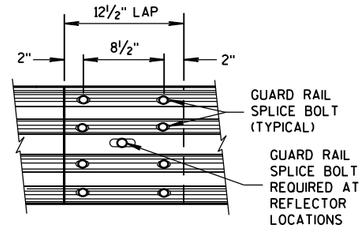


FRONT VIEW

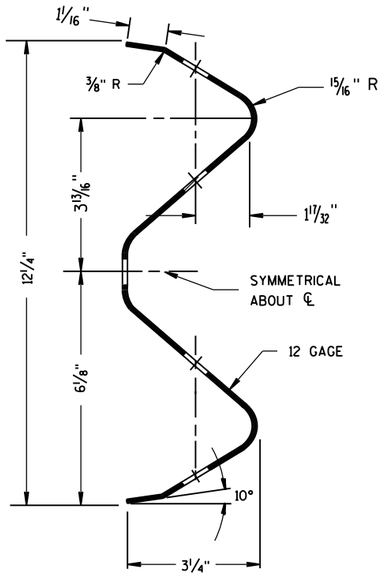
HALF POST SPACING (HS) AND HALF POST SPACING WITH LONGER POSTS (K)



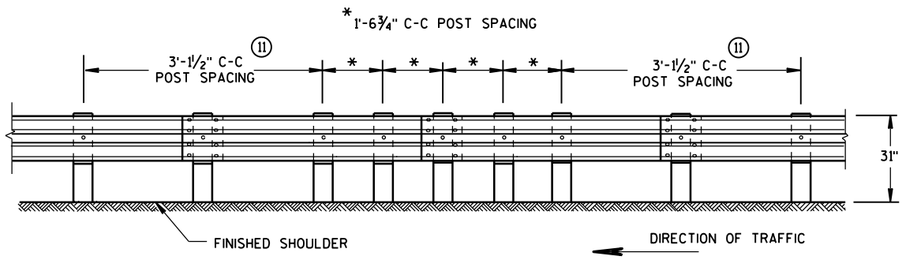
FRONT VIEW AT STEEL POST



FRONT VIEW
MID-SPAN BEAM SPLICE

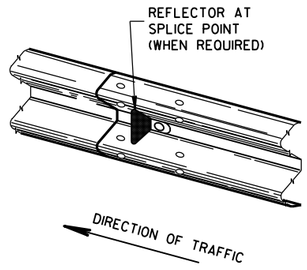


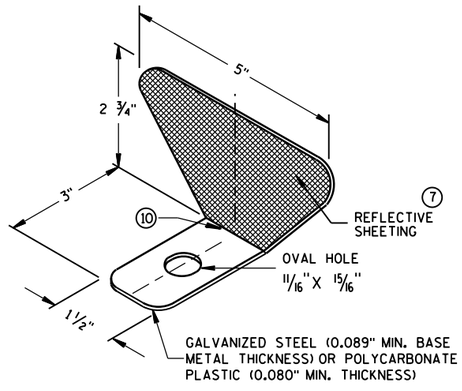
SECTION THRU W-BEAM RAIL



FRONT VIEW

QUARTER POST SPACING (QS)





ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION (7)

REFLECTOR SPACING (8)

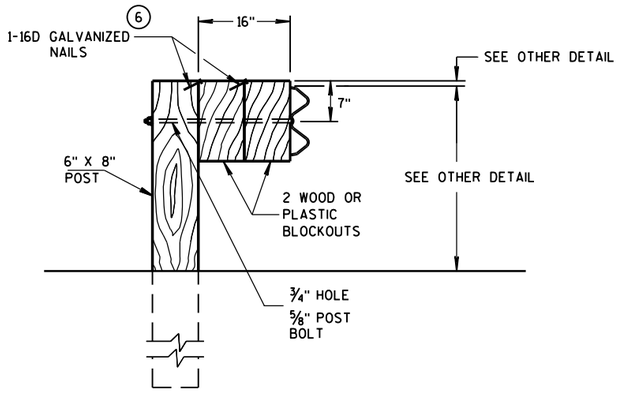
	BEAM GUARD LENGTH	REFLECTOR SPACING	NO. SURFACES REFLECTORIZED	MIN. NO. REFLECTORS
ONE WAY TRAFFIC	< 200'	50' C-C	1	3
	> 200'	100' C-C	1	
TWO WAY TRAFFIC	< 200'	25' C-C	1 (9)	6
	> 200'	50' C-C	1	
TWO WAY TRAFFIC	< 200'	50' C-C	2	3
	> 200'	100' C-C	2 (10)	

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

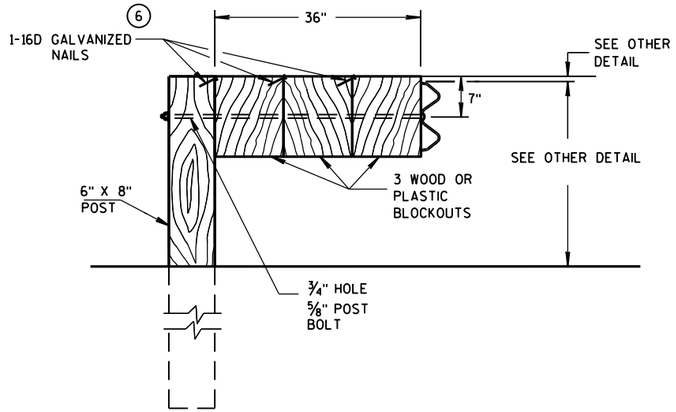
6

S.D.D. 14 B 42-4b



DETAIL FOR 16" BLOCKOUT DEPTH

IT IS ACCEPTABLE TO USE BLOCKOUTS UP TO 16" DEEP TO INCREASE THE POST OFFSET TO AVOID UNDERGROUND OBSTACLES. THERE IS NO LIMIT TO THE NUMBER OF POSTS THAT CAN HAVE ADDITIONAL BLOCKOUTS UP TO 16" DEEP.

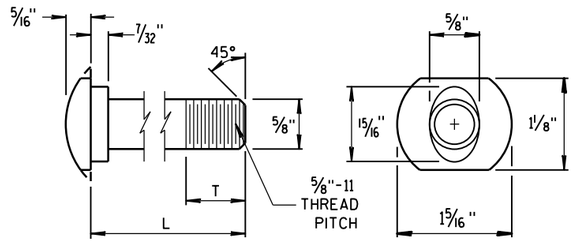


DETAIL FOR 36" BLOCKOUT DEPTH

NOTES: UNDER SPECIAL CIRCUMSTANCES, SUCH AS AVOIDING OBSTACLES THAT ARE NOT RELOCATED, IT IS ACCEPTABLE TO INSTALL ADDITIONAL BLOCKOUTS TO OBTAIN UP TO 36" DEPTH FOR ONE OR TWO POSTS IN A SECTION OF GUARDRAIL.

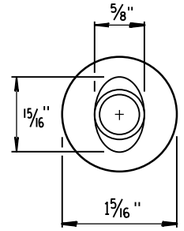
DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

NOTE: 1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF 1/16".
2. IF THE BOLT EXTENDS MORE THAN 1/4" FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.

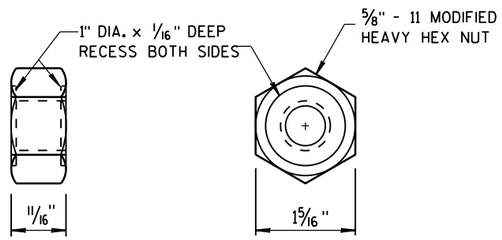


POST BOLT TABLE

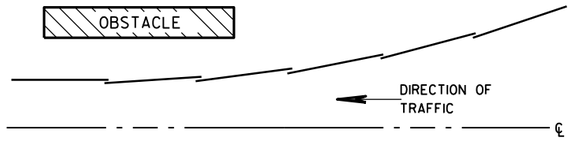
L	T (MIN.)
1 1/4"	1 1/8"
2"	1 3/4"
10"	4"
14"	4 1/16"
18"	4"
21"	4 1/16"
25"	4"



ALTERNATE BOLT HEAD

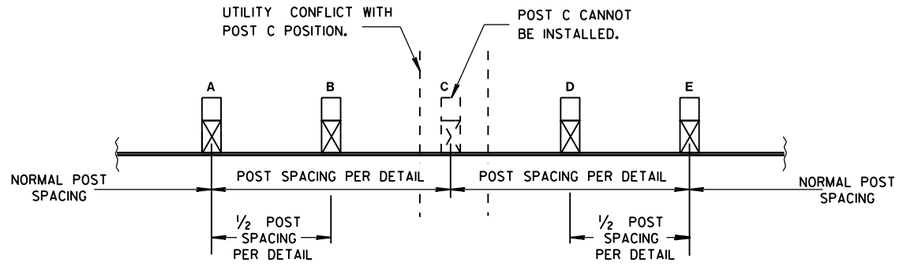


POST BOLT, SPLICE BOLT AND RECESS NUT

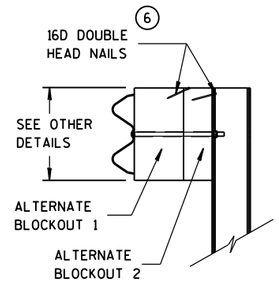


PLAN VIEW

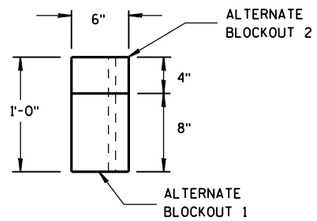
BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION



SIDE VIEW



TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2016 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 14 B 42-4c

GENERAL NOTES

(A) THE SLOPE IN THE AREA BOUNDED BY THE GRADELINE, THE HINGE POINT LINE (HPL), AND THE CLEAR ZONE LIMITS (CZL) SHALL BE 4:1 OR FLATTER.

(B) AFTER FINAL ASSEMBLY, RECHECK CABLE TO BE SURE IT IS TAUT AND HAS NOT RELAXED.

(C) DIFFERENT MANUFACTURES REQUIRE DIFFERENT PERFORATED W-BEAM RAIL END PANELS. SEE MANUFACTURES INFORMATION.

(D) THE TOP OF THE STEEL TUBE ON POST 1 AND POST 2 SHALL NOT BE MORE THAN 3" ABOVE THE FINISH GROUND ELEVATION.

(F) ATTACH ALUMINUM SHEET TO E.A.T. HEAD USING 4 STAINLESS STEEL SELF-TAPPING SCREWS. ONE SCREW PER CORNER.

(G) ½" DIAMETER X 3" LONG LAG BOLT AND WASHER.

(H) HARDWARE VARIES BETWEEN DIFFERENT MANUFACTURES. SEE MANUFACTURE'S DRAWING FOR INFORMATION.

(I) DIMENSIONS MAY VARY. SEE MANUFACTURE'S INFORMATION.

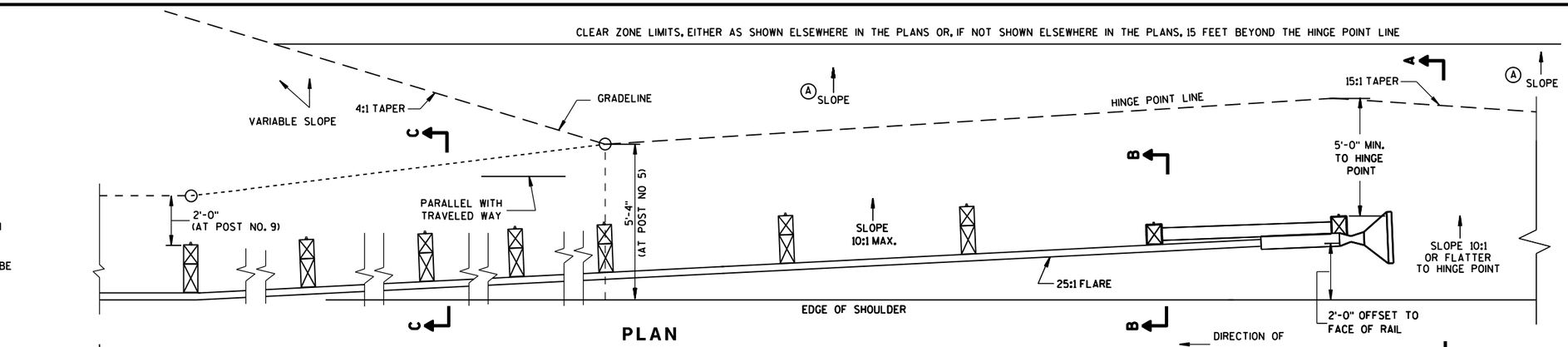
SEE SDD 14B42 FOR MORE INFORMATION.

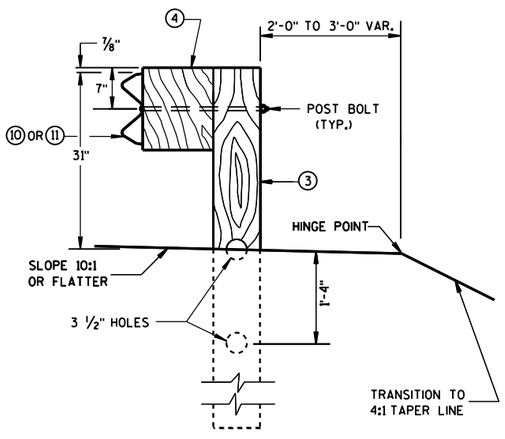
* DO NOT ATTACH BLOCKOUTS TO POSTS 1 AND 2.

DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

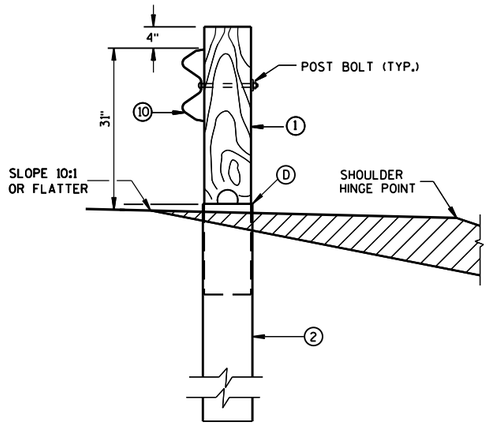
W-BEAM RAIL SPLICES ARE LOCATED AT POST NUMBER 3, AND BETWEEN POST 5 AND 6, BETWEEN POSTS 7 AND 8, AND MIDDLE OF THE SPAN AFTER POST 9.

THE CENTER OF THE UPPER 3½" DIAMETER HOLE ON POST NUMBER 3 THROUGH POST 9 IS TO BE FLUSH WITH THE GROUND LINE UP TO A MAXIMUM OF 2" ABOVE GROUND LINE.

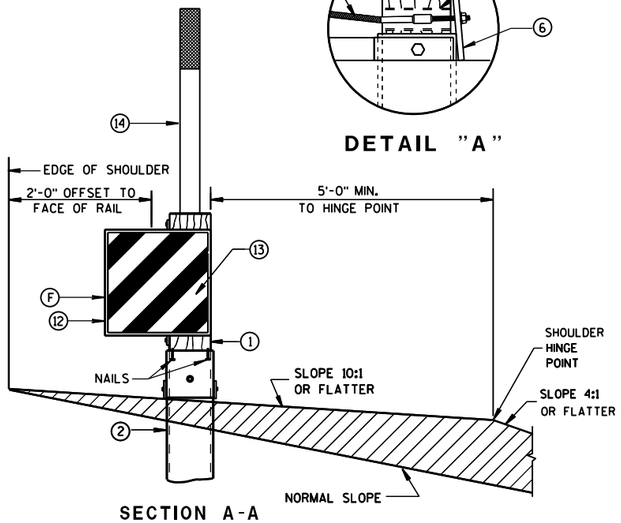




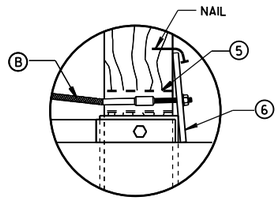
SECTION C-C
TYPICAL AT POST NOS. 3-9



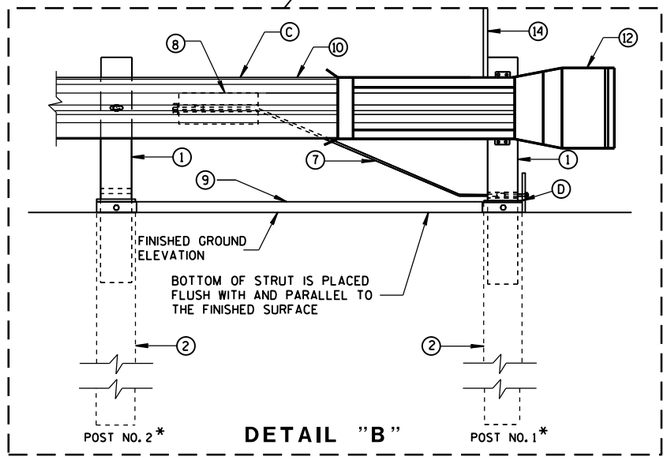
SECTION B-B
TYPICAL AT POST NO. 2*



SECTION A-A
TYPICAL AT POST NO. 1*



DETAIL "A"



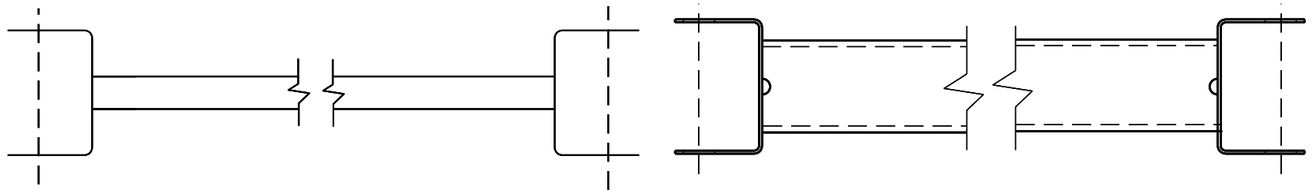
DETAIL "B"

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

S.D.D. 14 B 44-2a

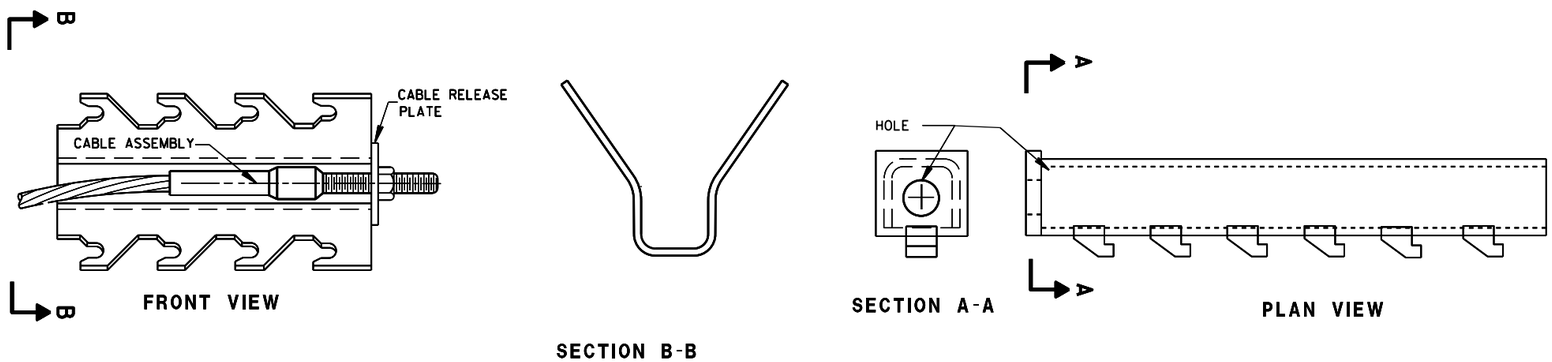
6



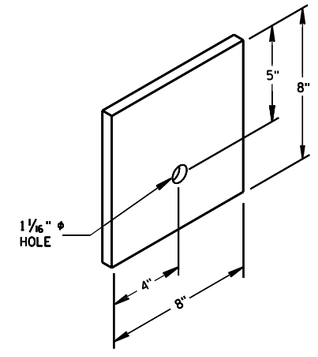
GENERIC GROUND STRUT (9) (H)

BILL OF MATERIALS

PART NO.	DESCRIPTION MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUFACTURER'S DETAILS FOR MORE INFORMATION.
(1)	WOOD BREAKAWAY POST
(2)	6" X 8" X 0.188", 6'-0" LONG FOUNDATION TUBE AT POSTS 1 AND 2
(3)	WOOD CRT
(4)	WOOD BLOCKOUT
(5)	PIPE SLEEVE
(6)	BEARING PLATE
(7)	BCT CABLE ASSEMBLY
(8)	ANCHOR CABLE BOX
(9)	GROUND STRUT
(10)	PERFORATED W-BEAM RAIL END PANEL, 12'-6" LONG.
(11)	STANDARD W-BEAM RAIL. MULTIPLE SECTIONS REQUIRED. SECTIONS VARY IN LENGTH.
(12)	END SECTION EAT
(13)	0.040" ALUMINUM SHEET WITH REFLECTIVE SHEETING TYPE F PER SECTION 637 OF THE STANDARD SPECIFICATIONS
(14)	EAT MARKER POST - YELLOW (SEE APPROVED PRODUCTS LIST)



GENERIC ANCHOR CABLE BOX (8) (H)

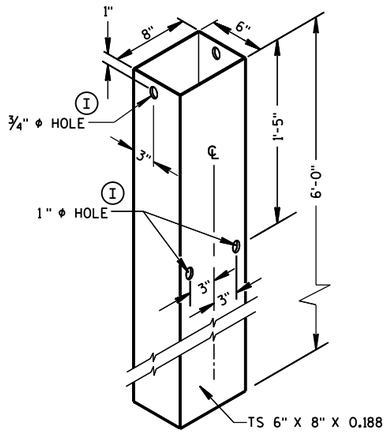


BEARING PLATE (6)

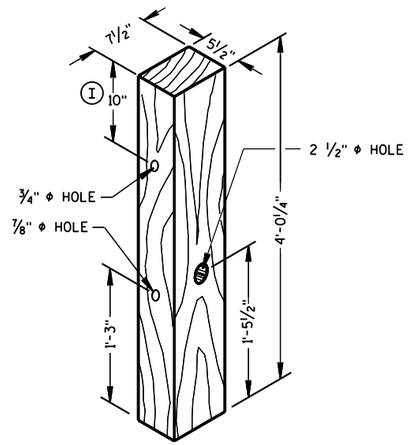
MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6
S.D.D. 14 B 44-2b

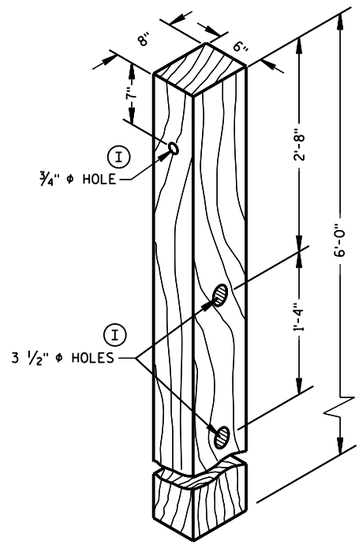


FOUNDATION TUBE (2)



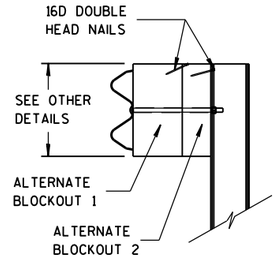
POSTS NUMBER 1 AND 2

WOOD BREAKAWAY POST (1)

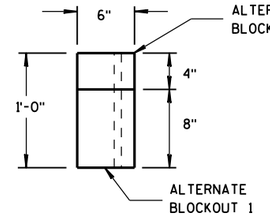


POSTS NUMBER 3-9

WOOD CRT POST (3)

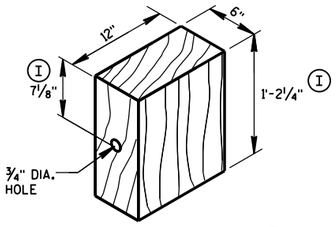


SIDE VIEW



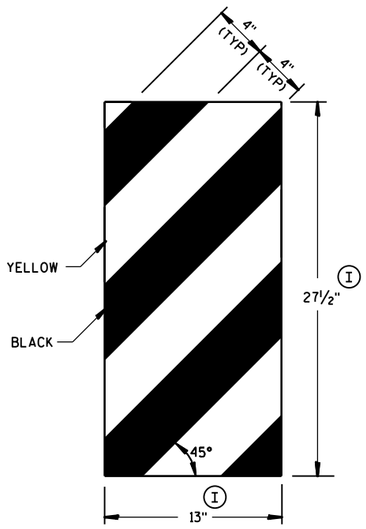
TOP VIEW

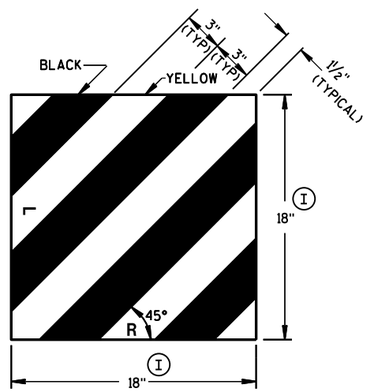
ALTERNATE WOOD BLOCKOUT DETAIL



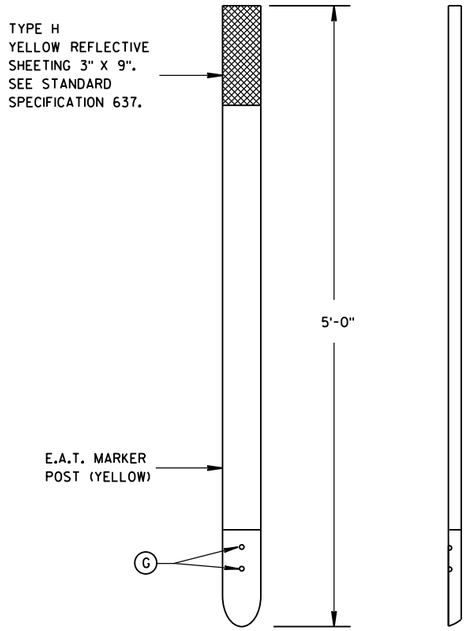
WOOD BLOCKOUT (4)

REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2





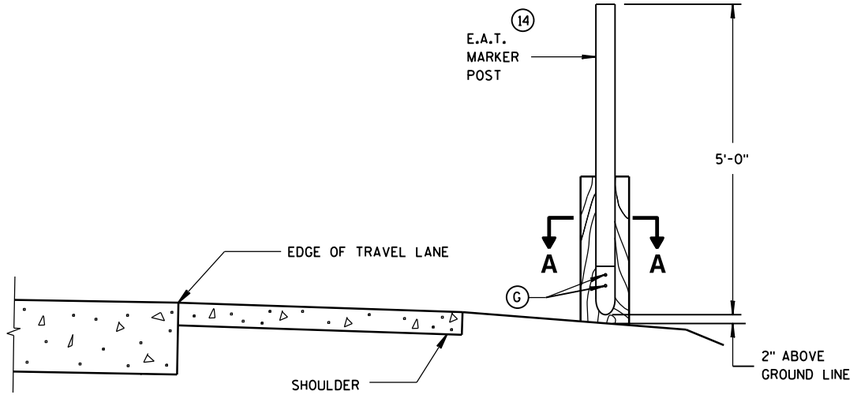
GENERIC REFLECTIVE SHEETING (13) (H)



FRONT VIEW

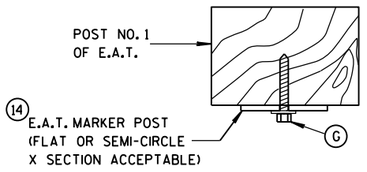
SIDE VIEW

E.A.T. MARKER POST (14)



TYPICAL INSTALLATION OF E.A.T. MARKER POST BACKSIDE OF POST NO. 1

(E.A.T. AND RAIL REMOVED FOR CLARITY)



SECTION A-A

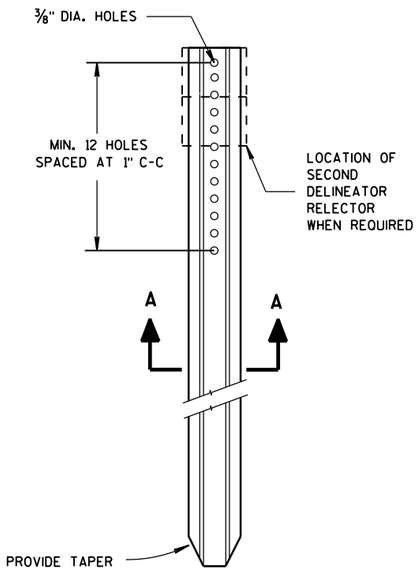
MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

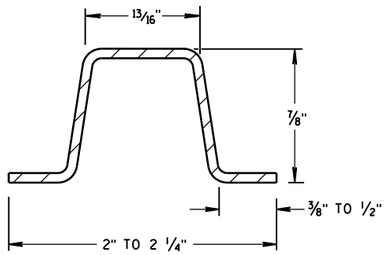
APPROVED
June 2014 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

6

S.D.D. 14 B 44-2c

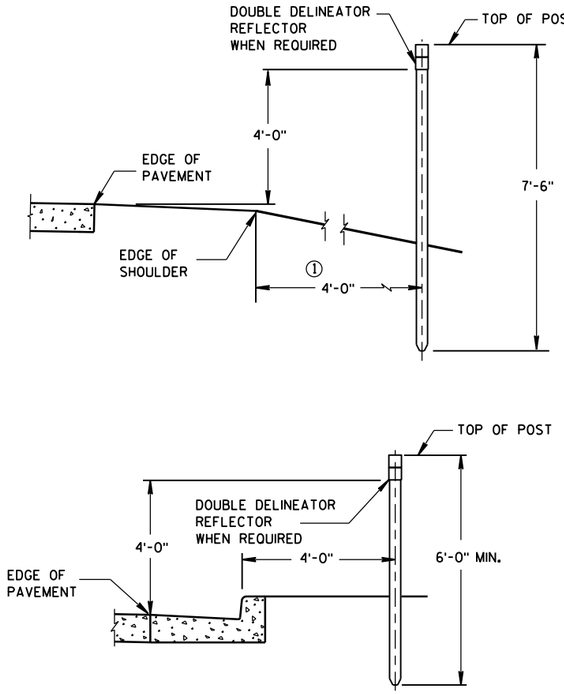


DELINEATOR POST



SECTION A-A

WEIGHT 1.12 LBS PER FT. ± 0.1 LB.

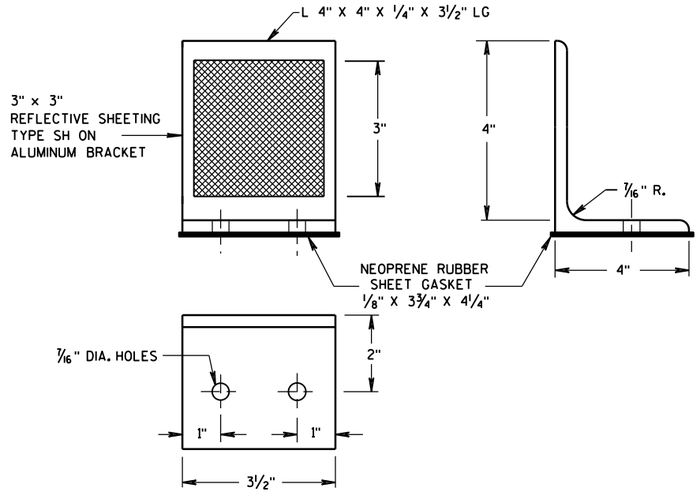


TYPICAL INSTALLATIONS OF DELINEATOR POSTS

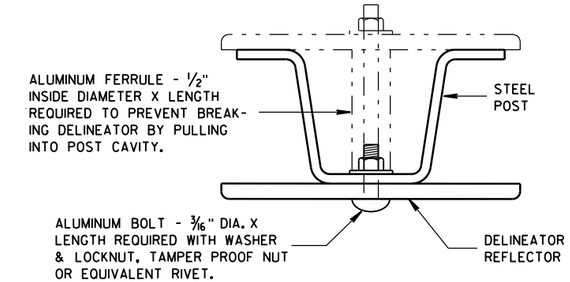
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

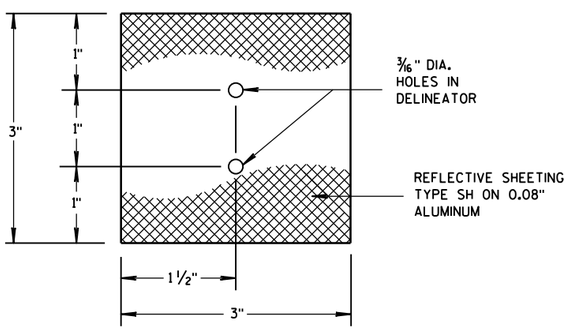
① DELINEATORS SHALL BE PLACED AT A CONSTANT DISTANCE FROM THE EDGE OF THE SHOULDER FOR THE LENGTH OF THE INSTALLATION.



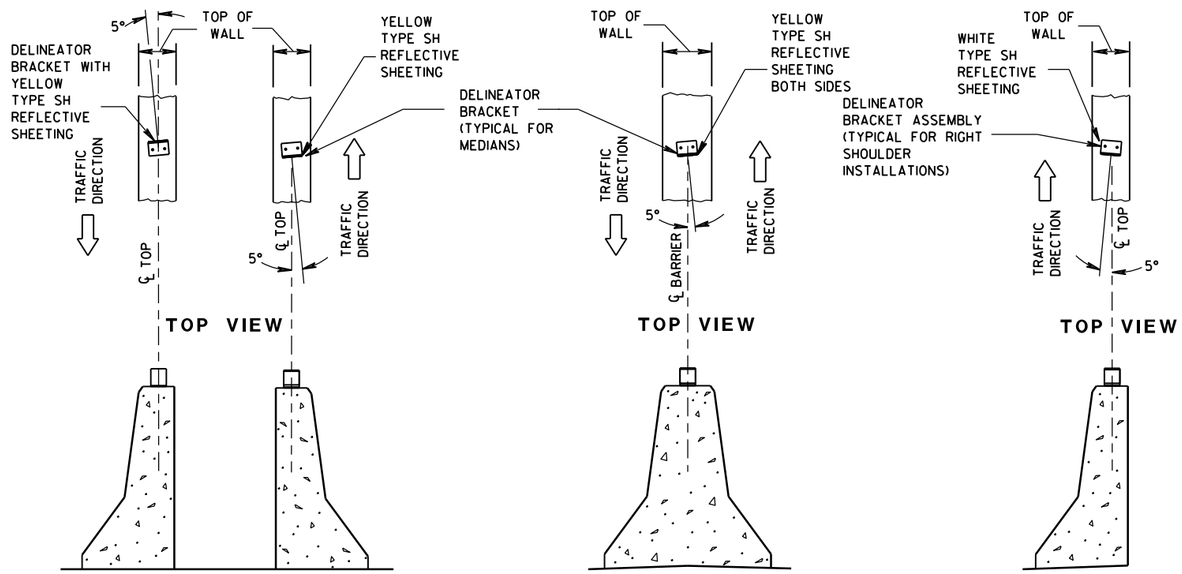
DELINEATOR BRACKET



MOUNTING DETAIL FOR DELINEATOR REFLECTOR

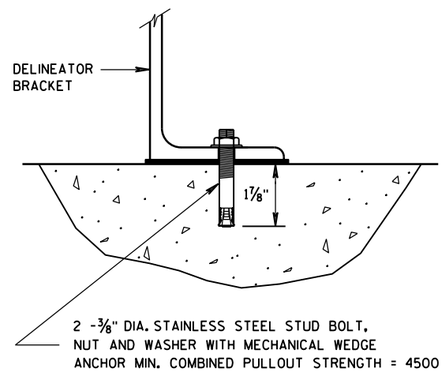


3"x 3" DELINEATOR REFLECTOR



DOUBLE BARRIERS IN MEDIAN | MEDIAN BARRIER | BARRIER LOCATED TO RT. OF TRAFFIC FLOW

LOCATION AND AIMING DETAILS FOR DELINEATOR BRACKETS MOUNTED ON CONCRETE BARRIERS



DELINEATOR BRACKET MOUNTING DETAIL

DELINEATOR POST, DELINEATOR REFLECTOR AND DELINEATOR BRACKET WITH REFLECTIVE SHEETING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

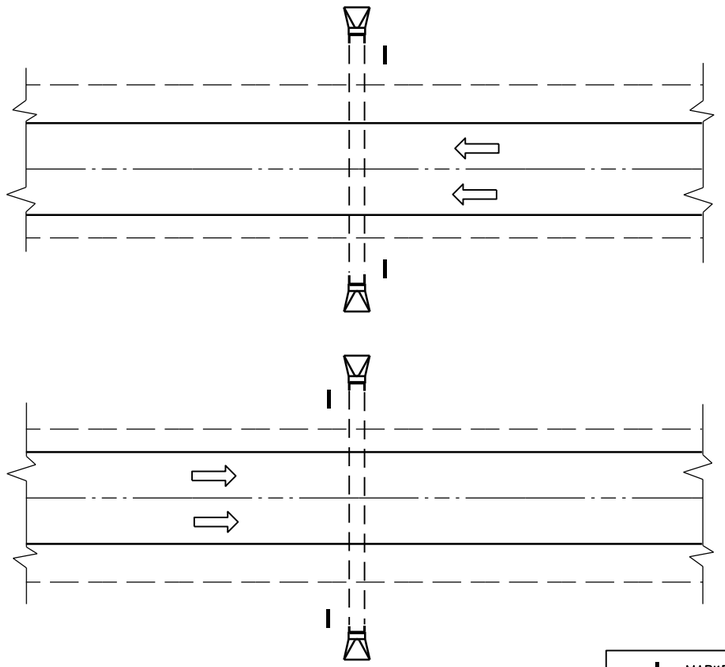
APPROVED
4-18-16 DATE
/S/ Matthew R. Rauch
STATE SIGNING AND MAR[illegible] GINEER
FHWA

6

S.D.D. 15 A 2-9

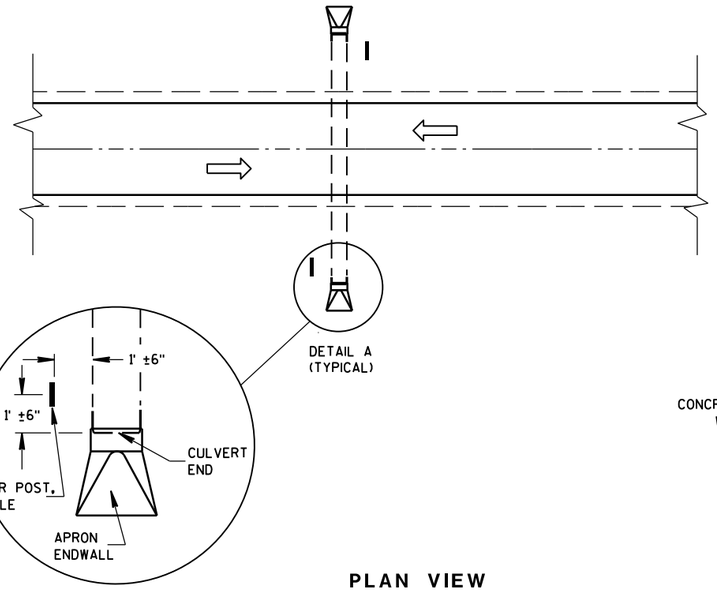
6

S.D.D. 15 A 2-9



PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

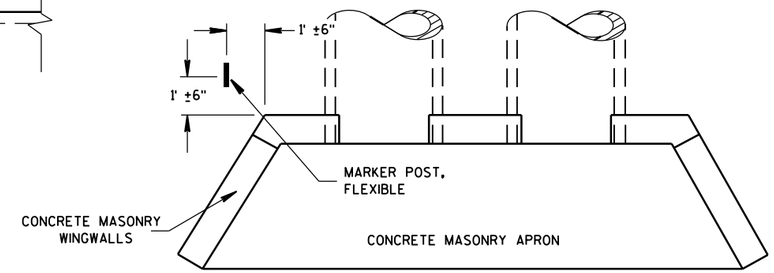
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

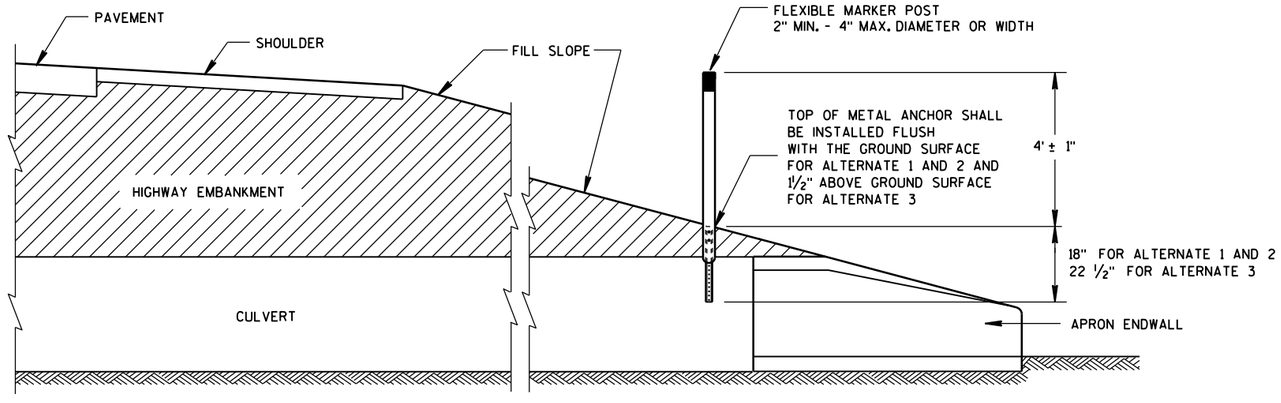
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



PLAN VIEW

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

FLEXIBLE MARKER POST LOCATION



CROSS SECTION

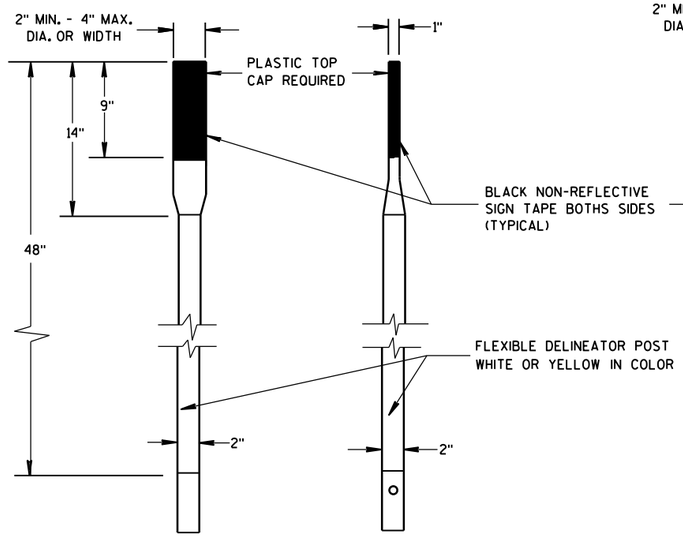
FLEXIBLE MARKER POST

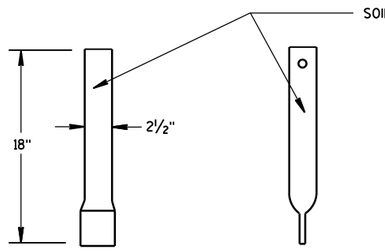
FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

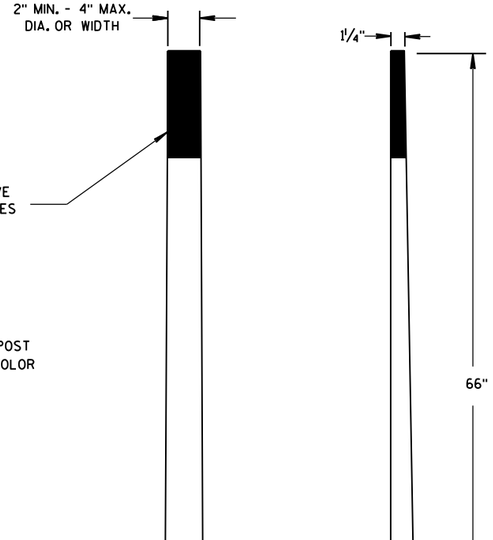
S.D.D. 15 A 3-2a





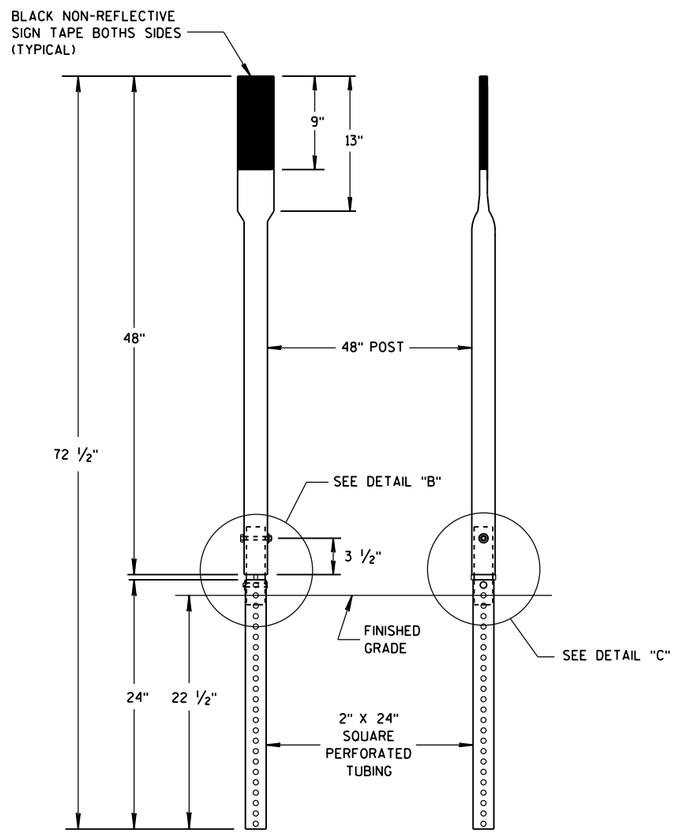
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

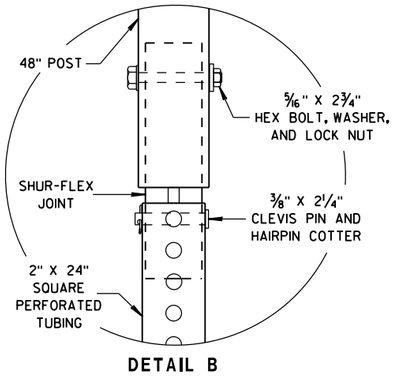
ALTERNATE 2



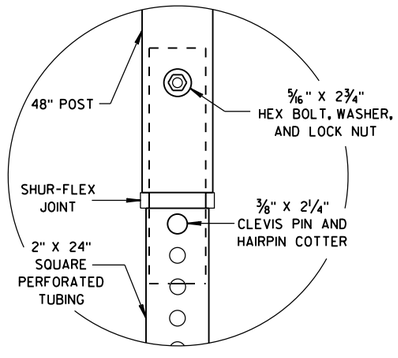
FRONT VIEW SIDE VIEW

ALTERNATE 3

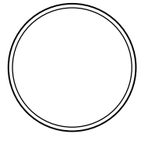
FLEXIBLE MARKER POSTS



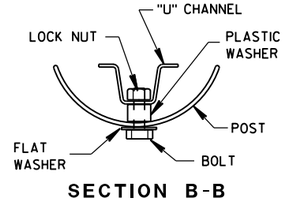
DETAIL B



DETAIL C



SECTION A-A



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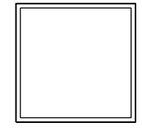

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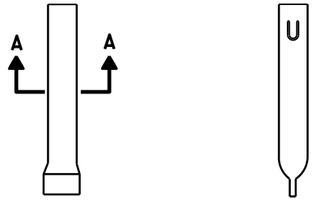
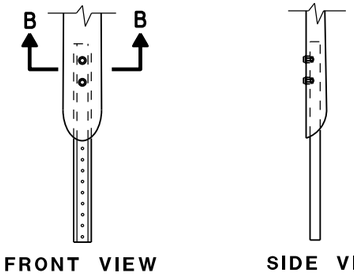


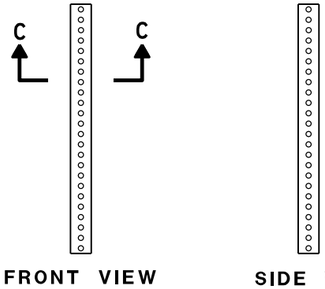
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

ALTERNATE 2



FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POST ANCHORS

FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/1/2012 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

6

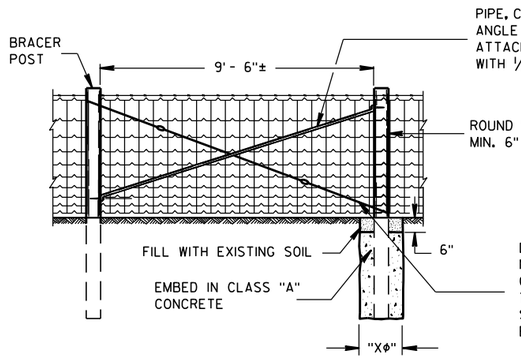
S.D.D. 15 A 3-2b

6

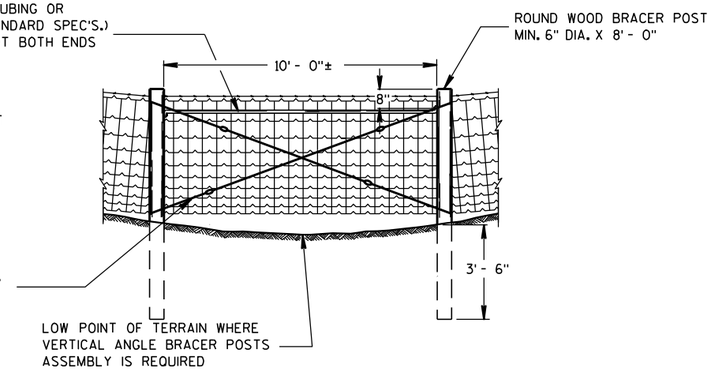
S.D.D. 15 A 3-2b

NOTE: PULL OR STRETCHER POST ASSEMBLIES SHALL BE PLACED MIDWAY BETWEEN END POSTS AND CORNER POSTS WHERE A RUN OF FENCE EXCEEDS 660' BUT IS LESS THAN 1,320'. FOR RUNS OF FENCE IN EXCESS OF 1,320' MAXIMUM SPACING OF PULL OR STRETCHER POST ASSEMBLIES SHALL BE 660'± C-C.

ILLUSTRATION SHOWS POSITION OF STANDARD STEEL BRACE, DOUBLE STRAND GALVANIZED WIRE, AND THE POST TO BE EMBEDDED IN CONCRETE WHEN WIRE FENCE IS INSTALLED FROM LEFT TO RIGHT. THE BRACES SHALL BE POSITIONED ON THE OPPOSITE DIAGONALS AND THE OPPOSITE POST SHALL BE EMBEDDED IN CONCRETE WHEN WIRE FENCE IS INSTALLED FROM RIGHT TO LEFT.



PULL OR STRETCHER POSTS ASSEMBLY



VERTICAL ANGLE BRACER POSTS ASSEMBLY

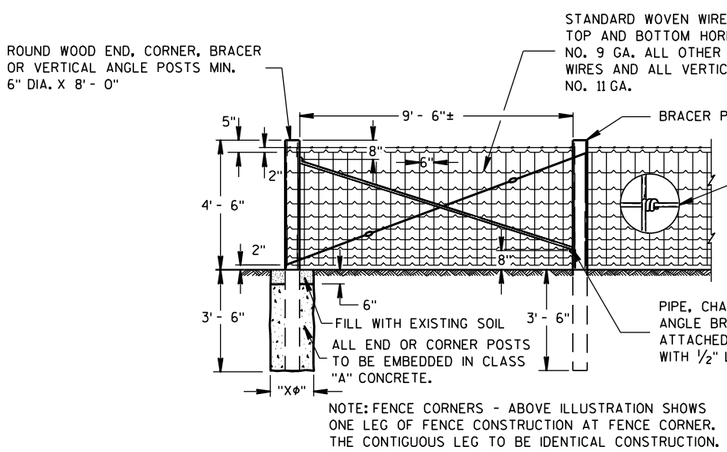
GENERAL NOTES

"XΦ" = DIAMETER OF THE POST PLUS 12".

FENCE STAPLES SHOULD NEVER BE DRIVEN VERTICALLY INTO WOOD POSTS (WITH BOTH LEGS PARALLEL WITH THE WOOD GRAIN). DOING SO CAN SEPARATE THE GRAIN AND SIGNIFICANTLY REDUCE THE HOLDING POWER. ROTATING THE STAPLES SLIGHTLY OFF VERTICAL STRADDLES THE GRAIN AND PROVIDES MORE RESISTANCE TO PULL-OUT.

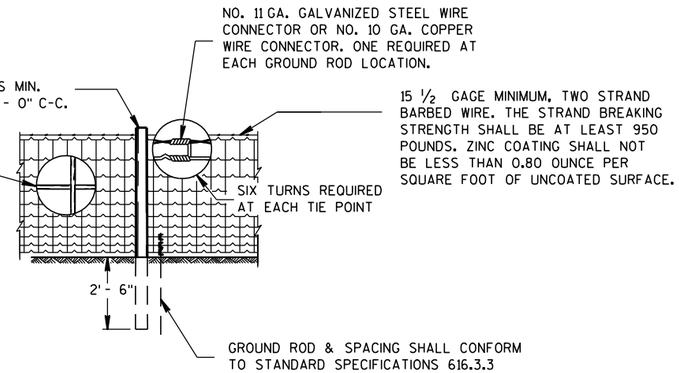
DO NOT STAPLE WIRE TIGHT TO THE LINE POSTS. ALLOW MOVEMENT OF WIRE FOR EXPANSION AND CONTRACTION. STAPLE ARRANGEMENT SHALL BE THE SAME FOR ALL OTHER POSTS EXCEPT THAT THEY SHALL BE DRIVEN TIGHT TO POSTS. ALL STAPLES SHALL BE 2" X 9 GAGE AND SHALL BE MANUFACTURED FROM GALVANIZED WIRE OR HOT DIP GALVANIZED AFTER FORMING. STAPLES SHALL HAVE SLASH-CUT POINTS.

FENCE SHALL BE LOCATED 3'-0" INSIDE THE RIGHT OF WAY LINE UNLESS OTHERWISE INDICATED ON THE PLANS.



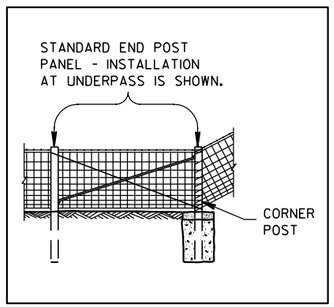
NOTE: FENCE CORNERS - ABOVE ILLUSTRATION SHOWS ONE LEG OF FENCE CONSTRUCTION AT FENCE CORNER. THE CONTIGUOUS LEG TO BE IDENTICAL CONSTRUCTION.

END OR CORNER POSTS ASSEMBLY

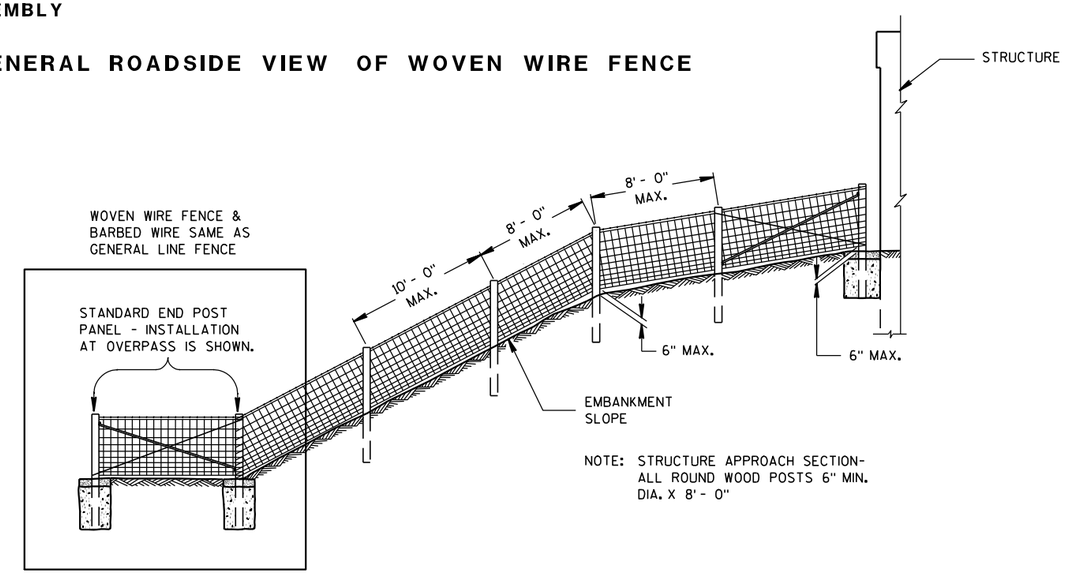


LINE FENCE CONSTRUCTION

GENERAL ROADSIDE VIEW OF WOVEN WIRE FENCE



ALTERNATE FENCE DESIGN AT STRUCTURE



NOTE: STRUCTURE APPROACH SECTION- ALL ROUND WOOD POSTS 6" MIN. DIA. X 8' - 0"

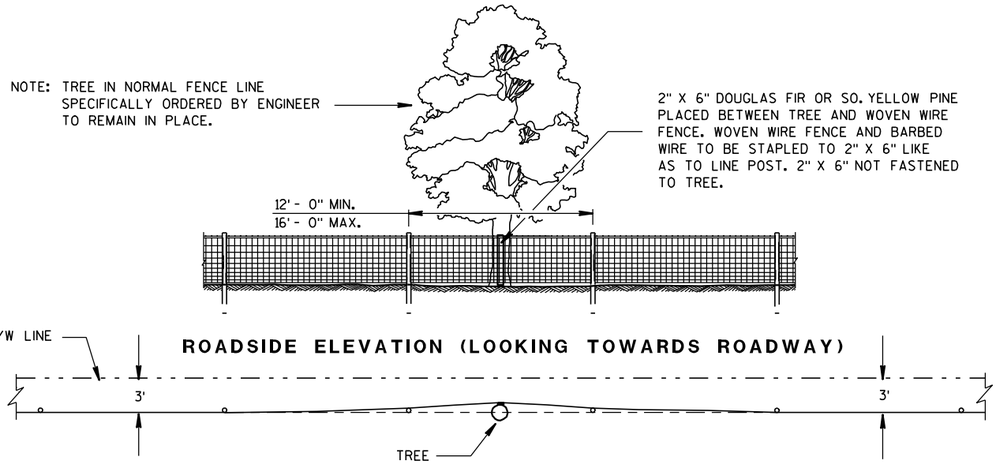
FENCE DESIGN AT STRUCTURE APPROACH

FENCE WOVEN WIRE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

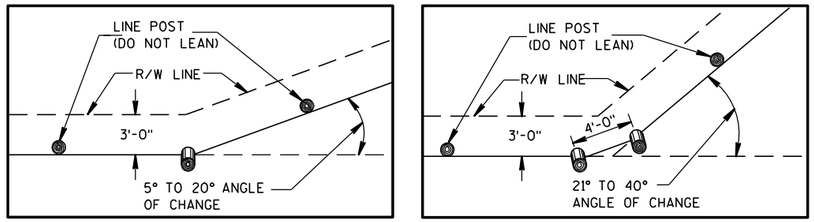
6

S.D.D. 15 B 1-8a



PLAN VIEW

FENCE DESIGN AT TREES REMAINING IN NORMAL FENCE LINE



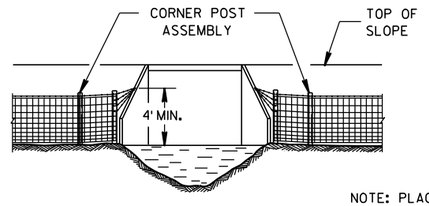
PLAN VIEW
SINGLE POST CORNER

PLAN VIEW
DOUBLE POST CORNER

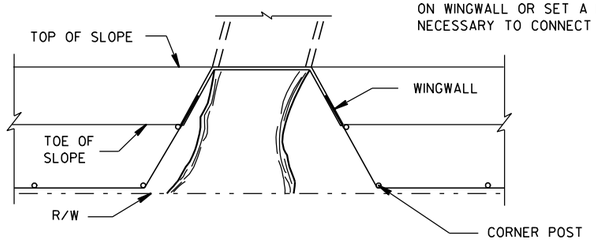
RIGHT OF WAY LINE CHANGE 40° AND LESS

NOTE: SINGLE AND DOUBLE POSTS SHALL BE A MIN. 6" DIA. X 8'-0" WITH A LEAN OF 4" TOWARD THE OUTSIDE OF THE CURVE.

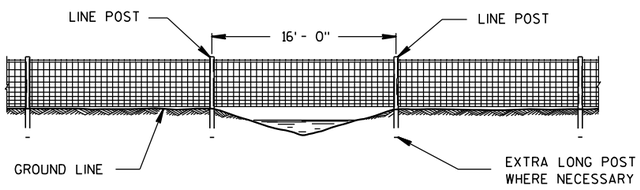
WHEN THE RIGHT OF WAY LINE CHANGE IS MORE THAN 40° USE THE CORNER OR STRETCHER POSTS ASSEMBLY.



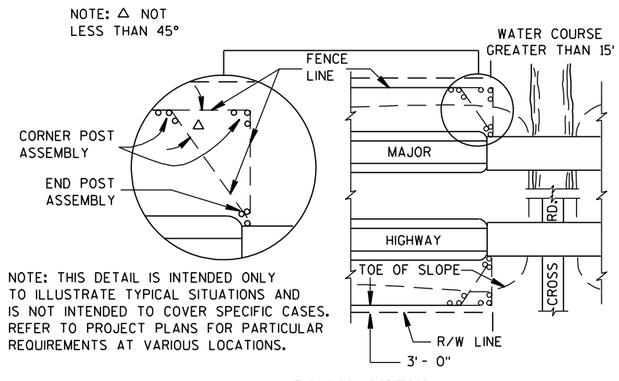
NOTE: PLACE A MINIMUM OF 4 STRANDS OF BARBED WIRE, 6" MAXIMUM CENTERS IN FAN SHAPE CONNECTED TO AN EYE BOLT ON WINGWALL OR SET A LONE POST WHEN NECESSARY TO CONNECT BARBED WIRE.



FENCE INSTALLATION TO WINGWALLS

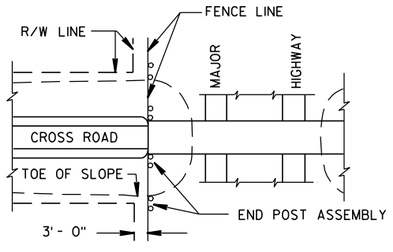


FENCE CONSTRUCTION OVER STREAM COURSES OF 15 FT. OR LESS IN WIDTH



PLAN VIEW

MAJOR HIGHWAY OVERPASS OR STREAM COURSE CROSSING OF GREATER THAN 15 FT. IN WIDTH

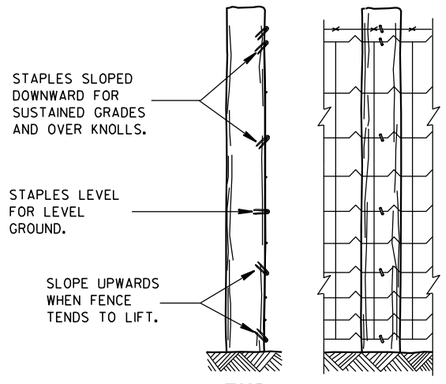


PLAN VIEW

MAJOR HIGHWAY UNDERPASS

FENCE LOCATION AT STRUCTURES

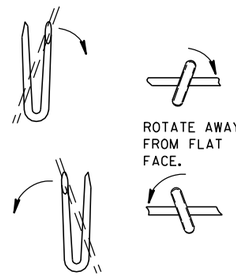
NOTE: WHEN POSTS ARE DRIVEN THE SMALL END SHALL BE DOWN.



END ELEVATION

FARM SIDE ELEVATION

FENCE MOUNTING DETAIL



LINE POST

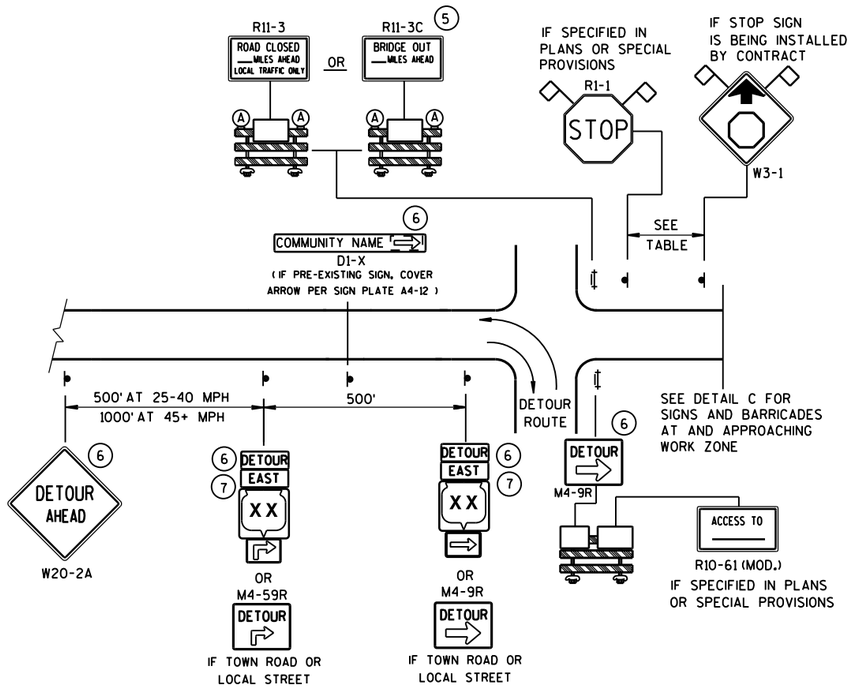
FENCE WOVEN WIRE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4/4/2008
DATE
/S/ Jerry H. [illegible]
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

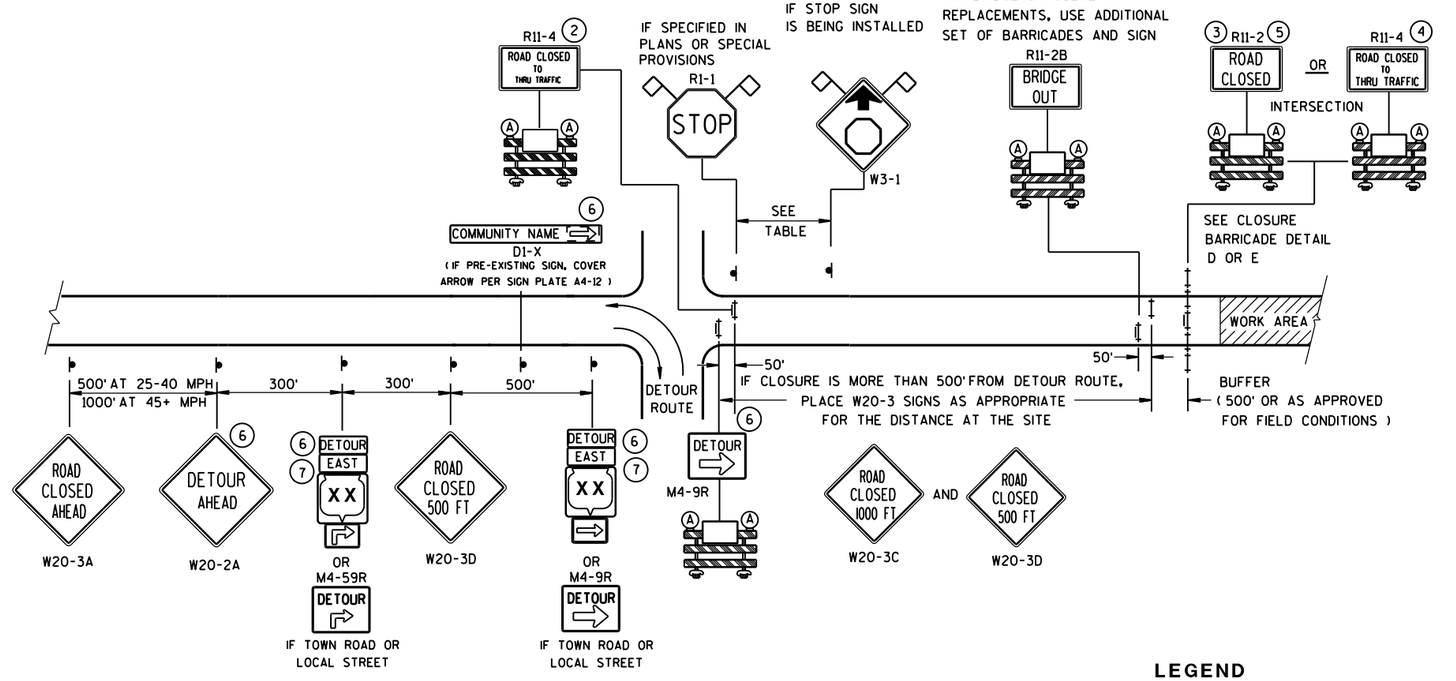
6

S.D.D. 15 B 1-8b



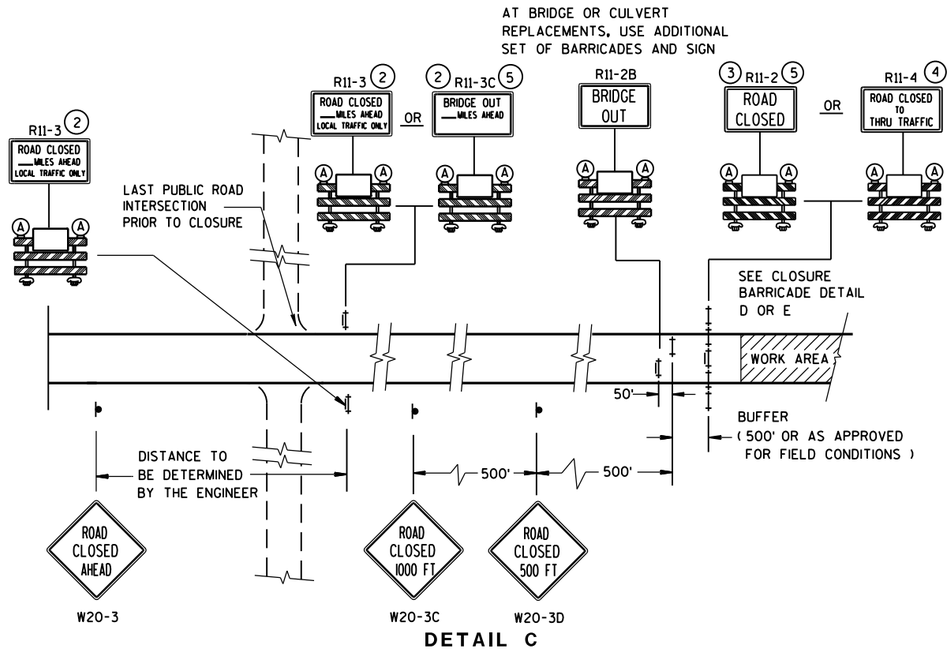
DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE GREATER THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE LESS THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR

SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (FT)
25	200
30	200
35	350
40	350
45	500
50	550
55	750

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA
- DETOUR / EAST — M4-8 / M3-X
- XX — M1-4; COUNTY XX — M1-5A; XX — M1-6
- M05-1 OR M06-1
- FLAGS, 16" X 16" MIN., (ORANGE)

SEE SDD 15C2-SHEET "**b**" FOR GENERAL NOTES AND FOOTNOTES (1) THROUGH (7)

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

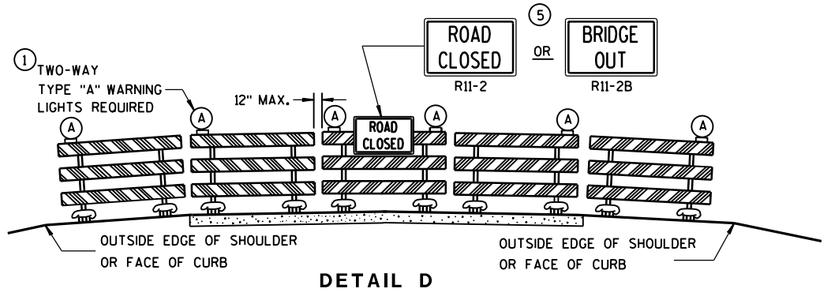
Sept. 2015 — DATE
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER
FHWA

6

S.D.D. 15 C 2-6a

6

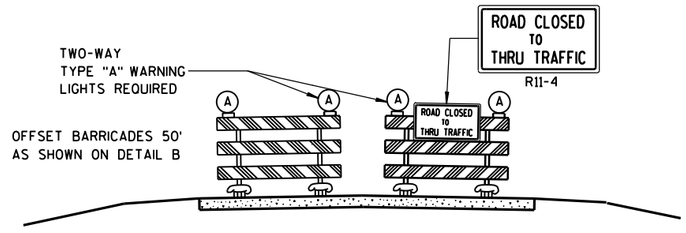
S.D.D. 15 C 2-6a



DETAIL D

ROAD CLOSURE BARRICADE DETAIL

APPROACH VIEW



DETAIL E

LANE CLOSURE BARRICADE DETAIL

APPROACH VIEW

SEE SDD 15C2-SHEET "**a**" FOR LEGEND

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL D FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3, M4-9, R11-4 AND R10-61 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

"WO AND "MO" SIGNS ARE THE SAME AS "W" AND "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
- R11-2 SHALL BE 48" X 30".
- R11-3, R11-4 AND R10-61 SHALL BE 60" X 30".
- M4-9 SHALL BE 30" X 24".
- M3-X SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS.)
- M4-8 SHALL BE 24" X 12". (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS.)
- M1-4, M1-5A, AND M1-6 SHALL BE 24" X 24". (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS.)
- M05-1 AND M06-1 SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS.)
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1-1 SHALL BE 36" X 36".

(1) TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8-FOOT LIGHT SPACING).

(2) THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT INTERSECTION.

(3) FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL D.

(4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE LANE CLOSURE BARRICADE DETAIL E.

(5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11-2 AND R11-3 SIGNS.

(6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.

(7) "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

Sept. 2015 — DATE

/S/ Peter Amakobe Atepe
STATEWIDE WORK ZO SAFETY ENGI — FIC

FHWA

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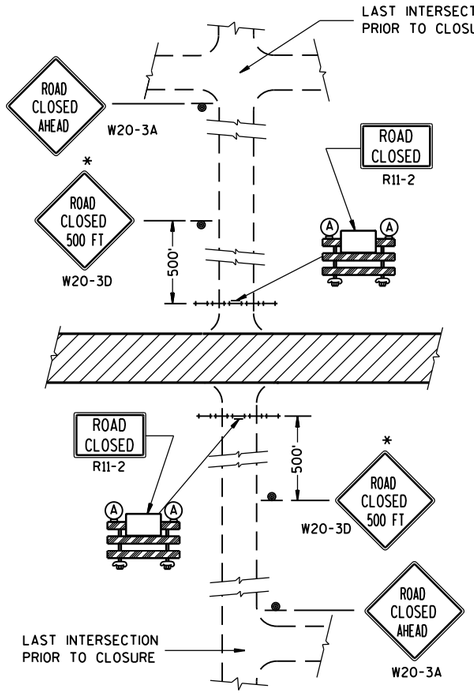
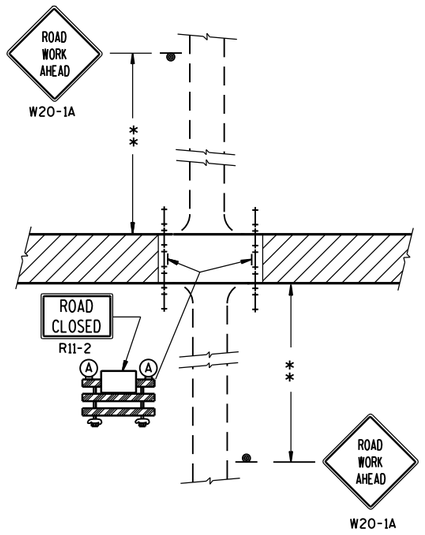
S.D.D. 15 C 2-6b



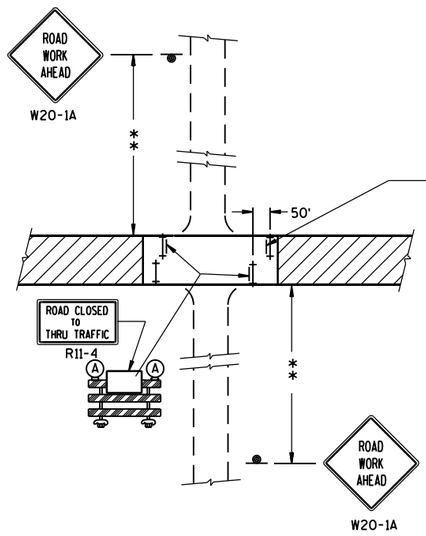
DETAIL 1

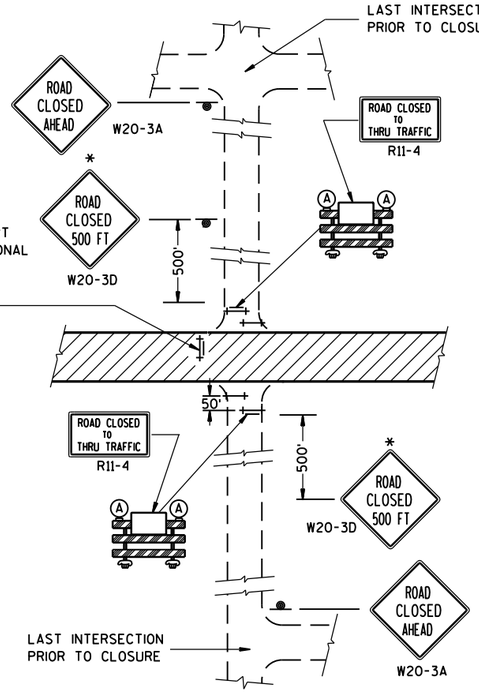
(NO ACCESS TO PROJECT)



DETAIL 2

(PUBLIC CROSS-TRAFFIC MAINTAINED. NO ACCESS TO PROJECT).





DETAIL 3

(PUBLIC CROSS-TRAFFIC MAINTAINED. CONTRACTOR, LOCAL BUSINESS AND RESIDENT ACCESS).

DETAIL 4

(CONTRACTOR, LOCAL BUSINESS AND RESIDENT ACCESS TO PROJECT)

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL D FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3 AND R11-4 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
R11-2 SHALL BE 48" X 30".
R11-4 AND R11-3 SHALL BE 60" X 30".

*OMIT THE "ROAD CLOSED 500 FT." SIGN IF THE LAST INTERSECTION IS 500 FT. OR LESS FROM THE WORK ZONE.

**500' MAX. OR AT LAST INTERSECTION WHICHEVER IS CLOSER.

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

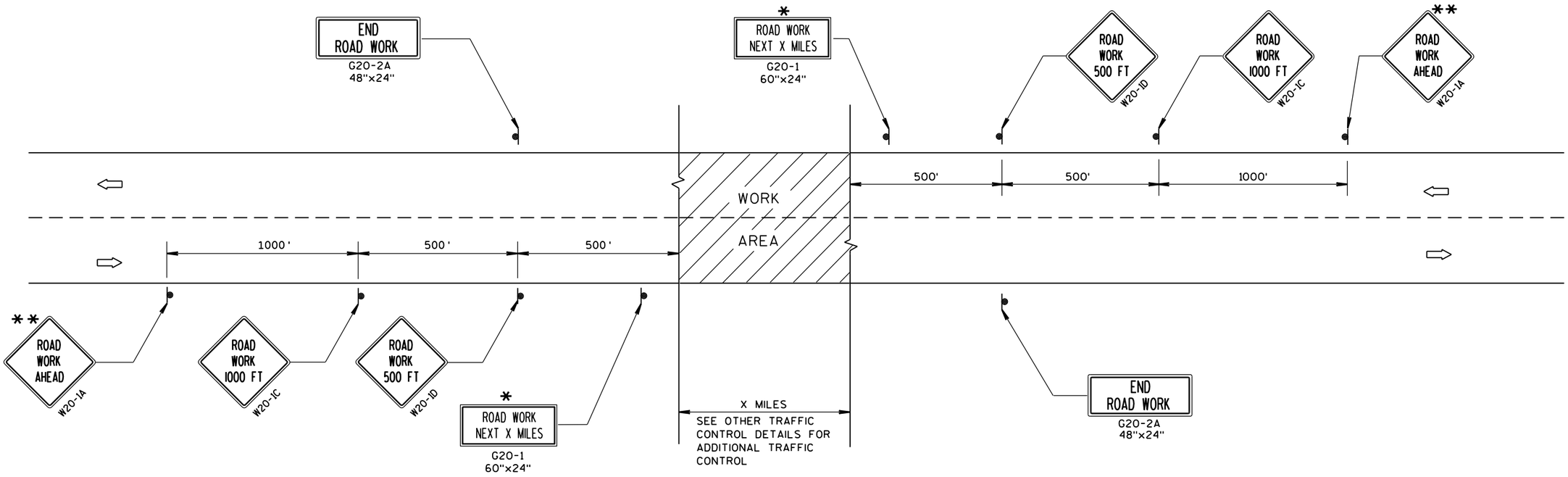
APPROVED
Sept. 2015 — DATE
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZO... SAFETY ENGI... — FHWA

6

S.D.D. 15 C 3-3

6

S.D.D. 15 C 3-3



TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

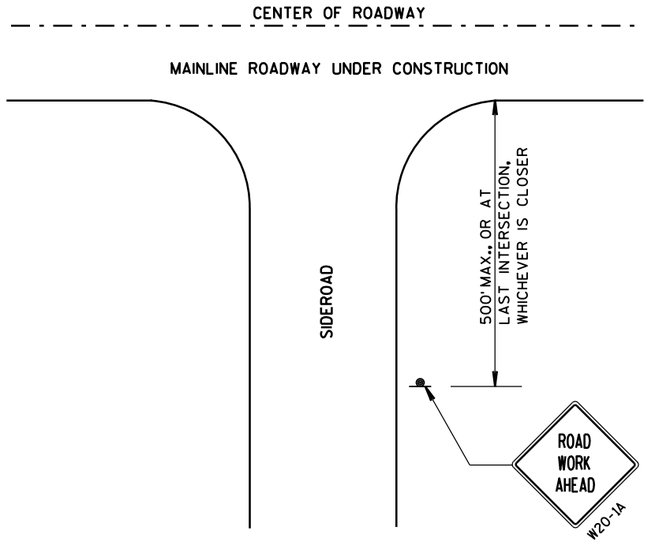
ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

* OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

** PLACE ADDITIONAL W20-1A "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.



LEGEND

- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

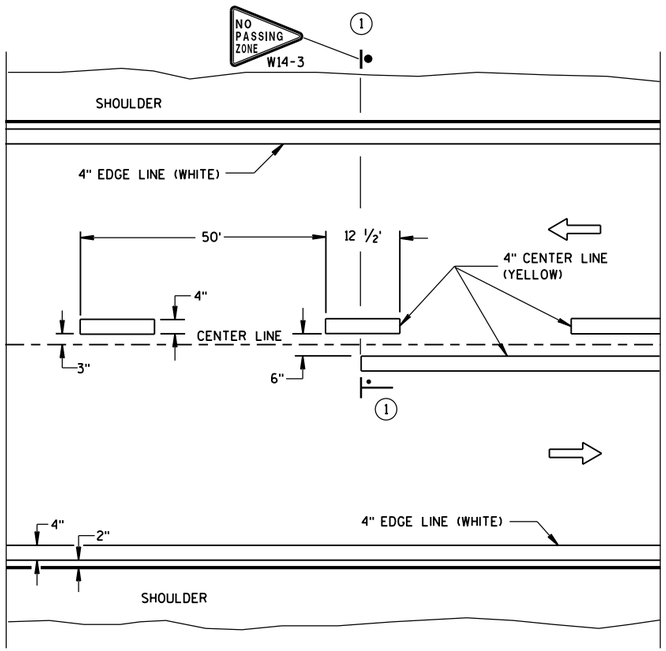
APPROVED

Sept. 2015	/S/ Peter Amakobe Atepe
DATE	STATEWIDE WORK ZONE SAFETY ENGINEER

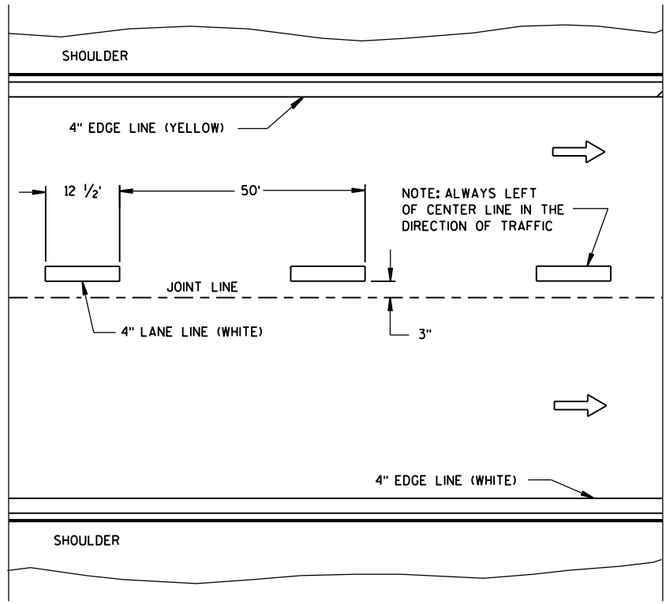
FHWA

6

S.D.D. 15 C 4-3



TWO WAY TRAFFIC



ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING

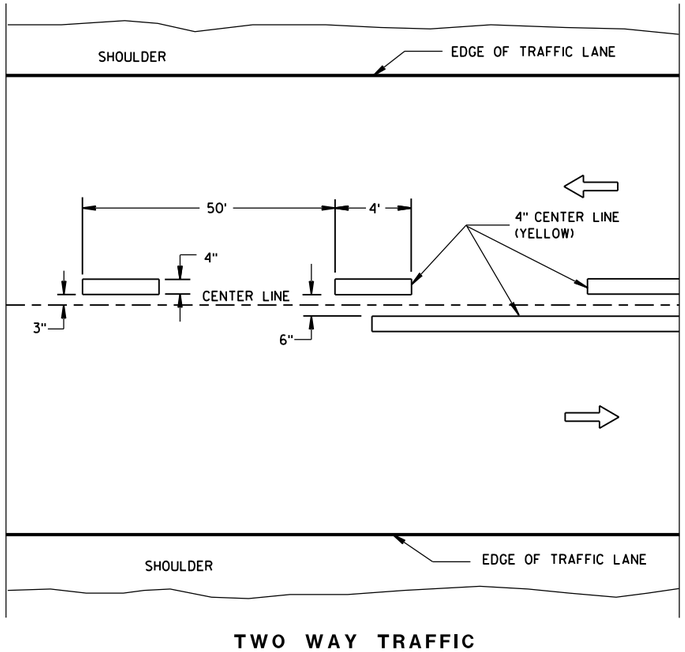
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

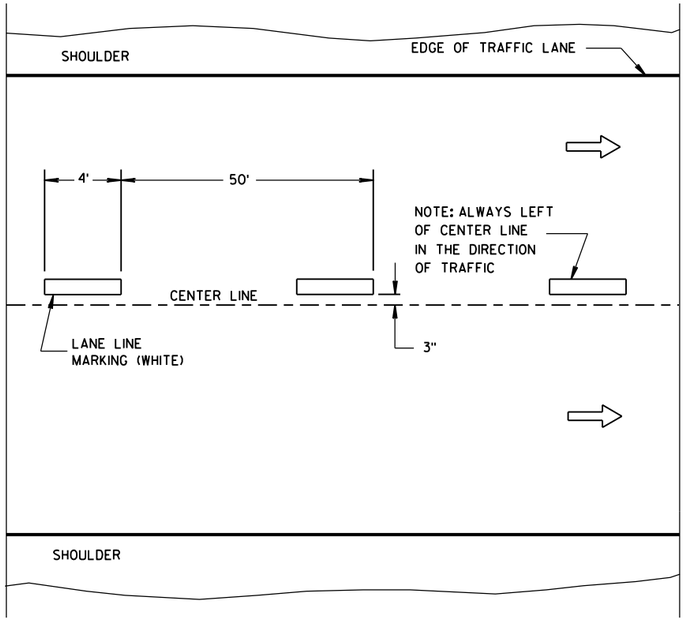
(1) NO PASSING ZONE W14-3 SIGN SHALL BE LOCATED WITHIN 50 FEET OF THE "T" MARKING.

NOTE

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY PAVEMENT MARKING

LEGEND

"T" MARKING

POST MOUNTED SIGN

LONGITUDINAL MARKING (MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2016 — DATE
/S/ Matthew R. Rauch — STATE SIGNING AND MARKING ENGINEER
FHWA

6

S.D.D. 15 C 8-17a

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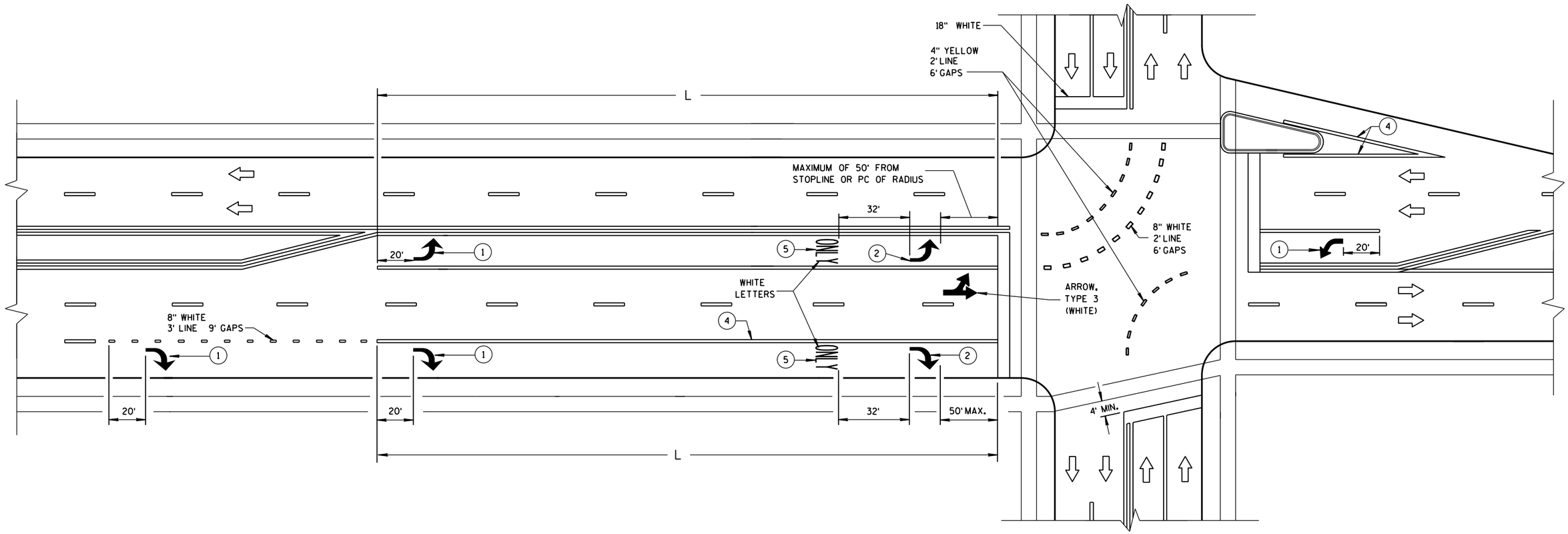
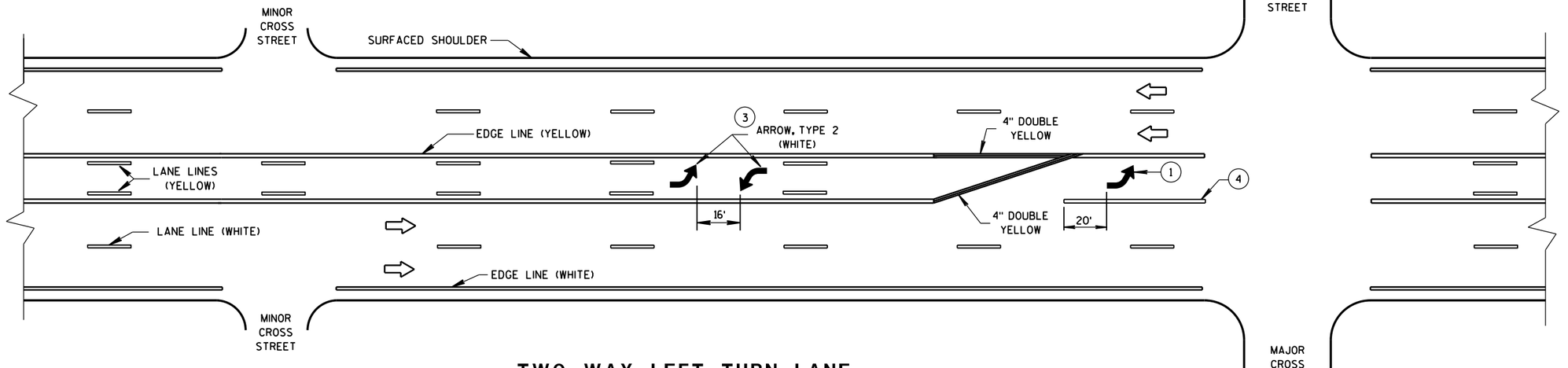
S.D.D. 15 C 8-17a





TWO WAY LEFT TURN LANE

GENERAL NOTES

1. REQUIRED ARROW, TYPE 2 (WHITE).
2. REQUIRED ARROW, TYPE 2 (WHITE) WHEN L IS GREATER THAN 78 FEET AND LESS THAN OR EQUAL TO 166 FEET.
3. A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
4. 8" WHITE
5. REQUIRED WORD ONLY WHEN L IS GREATER THAN 166 FEET.

NOTE:
ARROW SYMBOL (⇨)
SHOWS DIRECTION OF TRAVEL

L = LENGTH OF TURN BAY

PAVEMENT MARKING (TURN LANES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

S.D.D. 15 C 8-17b

LEGEND

SIGN ON PORTABLE OR PERMANENT SUPPORT

DIRECTION OF TRAFFIC

WORK AREA

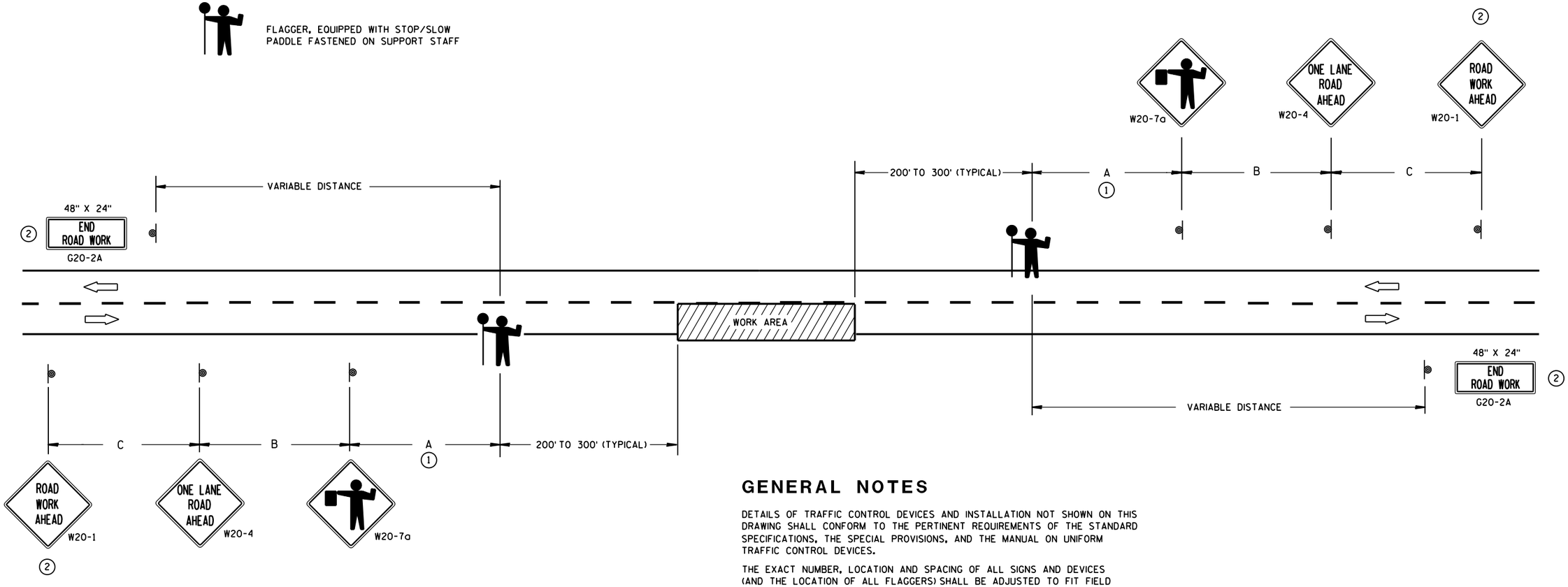
FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

SIGN SPACING TABLE

SPEED LIMIT	SIGN SPACING A,B,C
25-35 MPH	200'
35-40 MPH	350'
45-55 MPH	500'

W3-4

USE OF THE "BE PREPARED TO STOP" SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7a AND W20-4 SIGNS. A 500' TYPICAL SPACING SHALL BE PROVIDED BETWEEN THE SIGNS.



(1) FOR A MOVING WORK OPERATION,
SIGNING FOR BOTH DIRECTIONS SHALL BE REESTABLISHED (AS SIMULTANEOUSLY AS PRACTICAL) AT APPROXIMATELY 3500 FOOT INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.

(2) SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES (AND THE LOCATION OF ALL FLAGGERS) SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT, COVER OR REMOVE ALL TEMPORARY TRAFFIC CONTROL SIGNS.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
8/2013
DATE
/S/ Travis Feltes
STATE TRAFFIC ENGINEER
FHWA

6

S.D.D. 15 C 12-4

LEGEND

SIGN ON PORTABLE OR PERMANENT SUPPORT

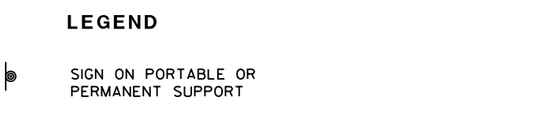
DIRECTION OF TRAFFIC

WORK AREA

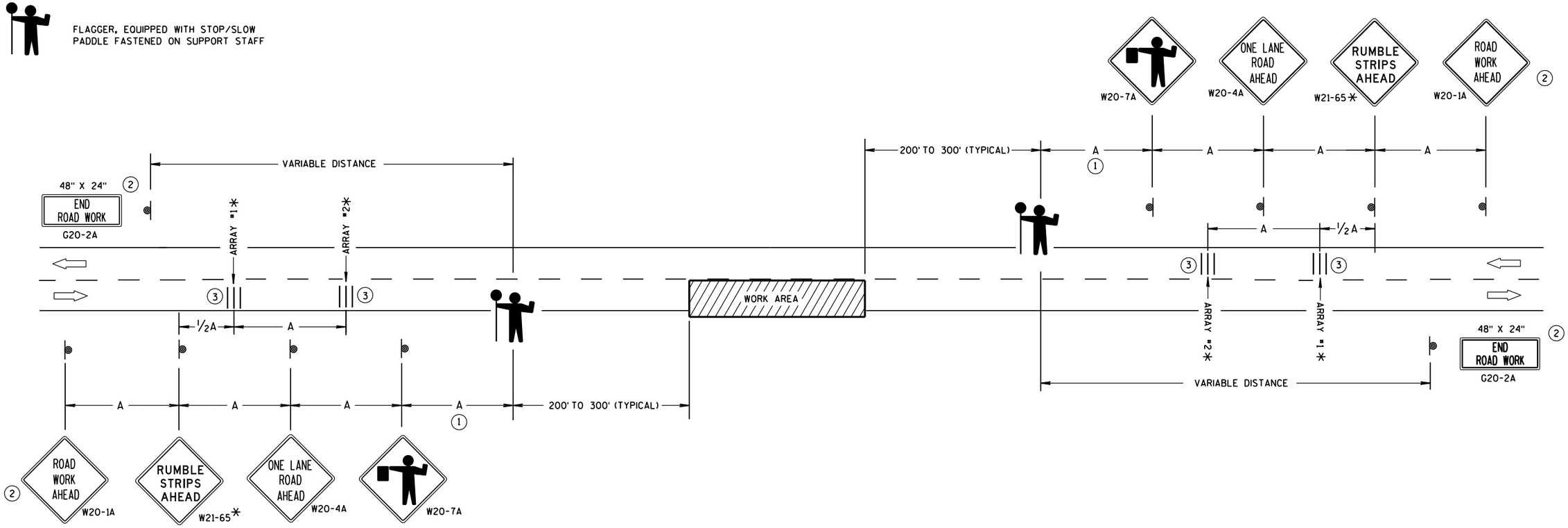
FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

SPEED LIMIT	SPACING A
25-35 MPH	200'
35-40 MPH	350'
45-55 MPH	500'



USE OF THE "BE PREPARED TO STOP" SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7A AND W20-4A SIGNS, USING SPACING A.



TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES (AND THE LOCATION OF ALL FLAGGERS) SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS.

PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT, REMOVE TEMPORARY RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.

* UTILIZE TEMPORARY RUMBLE STRIPS WHEN FLAGGING OPERATION IS ANTICIPATED TO BE STATIONARY IN EXCESS OF TWO HOURS.

(1) FOR A MOVING WORK OPERATION, SIGNING AND TEMPORARY RUMBLE STRIPS (IF USED) SHALL BE REESTABLISHED (AS SIMULTANEOUSLY AS PRACTICAL) AT APPROXIMATELY 3,500 FOOT INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.

(2) SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

(3) EACH TEMPORARY RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS SPACED ACCORDING TO MANUFACTURER'S RECOMMENDATION, PLACED TRANSVERSE ACROSS THE LANE AT LOCATIONS SHOWN.

TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
December, 2016 — /S/ Andrew Heldtke
DATE — WORK ZONE ENG
FHWA

6
S.D.D. 15 C 12-5

LEGEND

- TRAFFIC CONTROL DRUM
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- FLASHING ARROW BOARD
- WORK AREA

GENERAL NOTES

THIS DETAIL IS TYPICAL FOR CLOSING THE RIGHT SHOULDER. FOR CLOSING THE LEFT SHOULDER, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR DIVIDED ROADWAYS WITH ANY NUMBER OF TRAVEL LANES.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

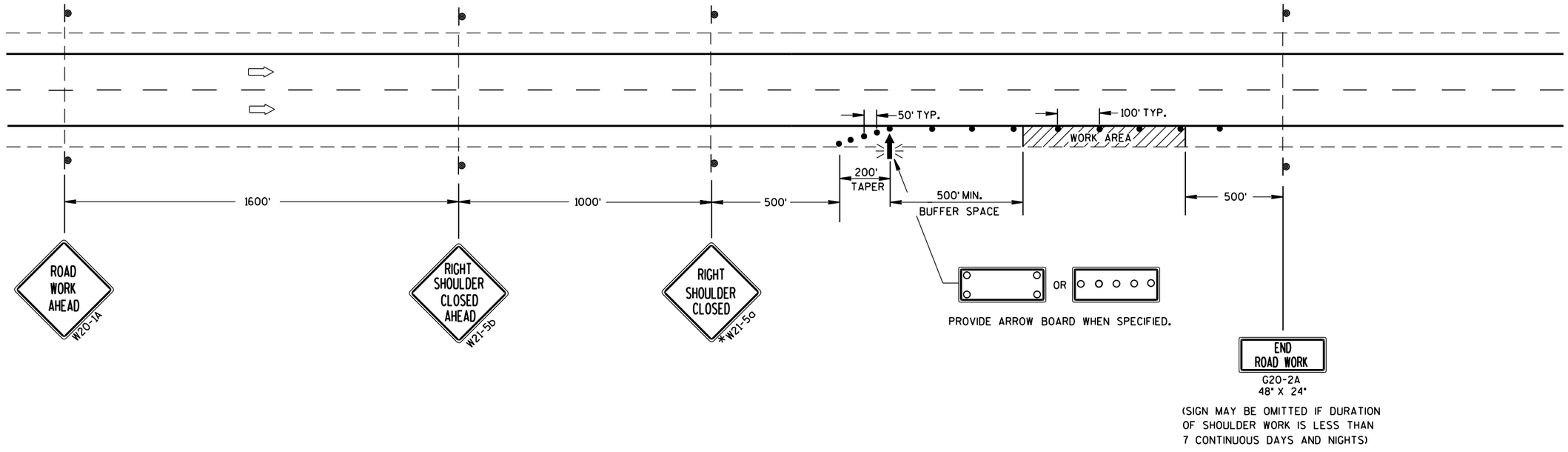
SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

CHANNELIZING DEVICES PLACED ADJACENT TO THE WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

*FOR SHORT DURATION SHOULDER WORK OF LESS THAN ONE HOUR, THE W21-5a SIGN MAY BE OMITTED.



TRAFFIC CONTROL SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June 2016 — DATE

/S/ Peter Amakobe Atepe
STATEWIDE WORK ZO[illegible] SAFETY ENGI[illegible]

FHWA

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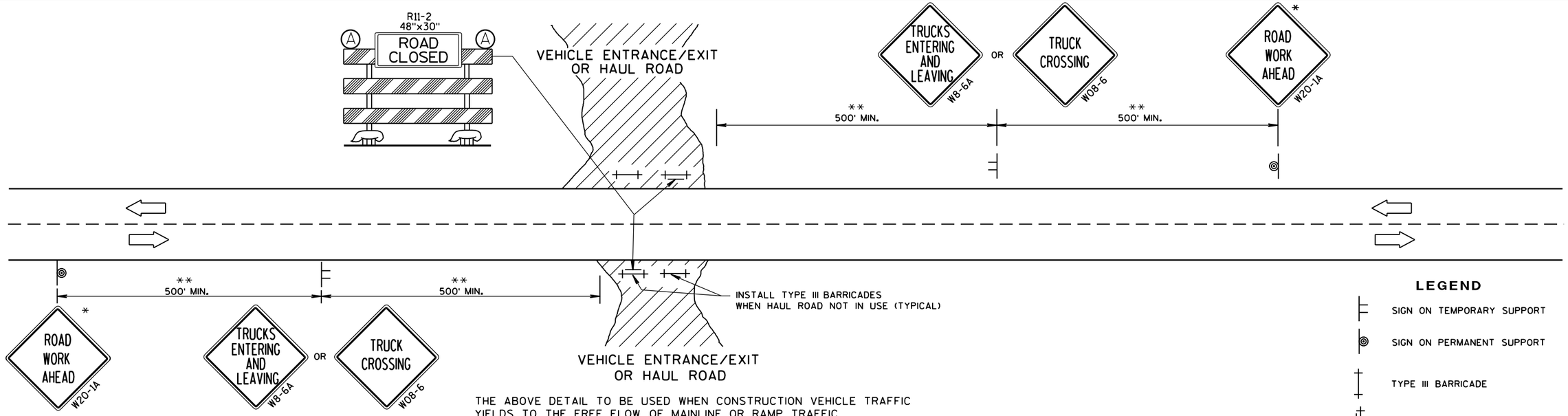
S.D.D. 15 D 27-3



THE ABOVE DETAIL TO BE USED WHEN CONSTRUCTION VEHICLE TRAFFIC YIELDS TO THE FREE FLOW OF MAINLINE OR RAMP TRAFFIC

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS, DEVICES AND FLAGGERS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

WHEN ACTIVITY REFLECTED BY THE SIGN IS NOT CURRENTLY TAKING PLACE, THE HIGHWAY SHALL BE RESTORED TO NORMAL CONDITION AND THE SIGNS SHALL BE REMOVED, COVERED OR TURNED AWAY FROM TRAFFIC.

WHEN A SIDE ROAD OR RAMP INTERSECTS WITHIN THE ADVANCE SIGNING AREA, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

* THESE SIGNS ARE TO BE USED ONLY WHEN VEHICLE **ENTRANCE/EXIT CONDITIONS ARE SEPARATED BY MORE THAN 2 MILES** FROM PREVIOUS WORK AREA OR SIGNING OR AS DIRECTED BY THE ENGINEER.

** 500 FEET SHOWN IS FOR ROADWAYS WITH A NON-CONSTRUCTION REGULATORY SPEED LIMIT OF 45 MPH OR MORE. FOR 35-40 MPH, USE 350 FEET. FOR 25-30 MPH, USE 200 FEET. USE 1000 FEET/1500 FEET FOR EXPRESSWAY/FREEWAY.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

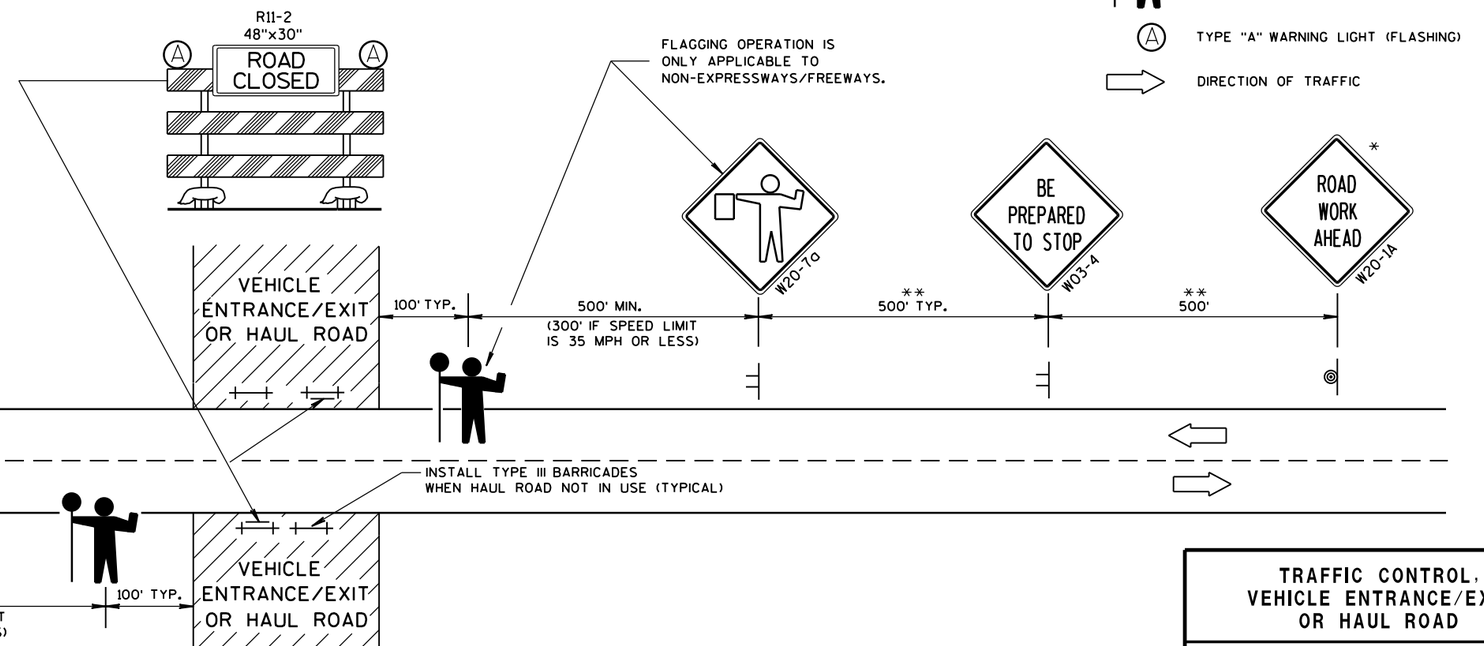
"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

PLACE SIGNS ON BOTH SIDES IF USED ON DIVIDED HIGHWAY.

THE FIRST ADVANCE WARNING SIGN AND THE W03-4 SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS.

WARNING SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.



THIS DETAIL TO BE USED WHEN CONSTRUCTION WORK INCLUDING TRUCKING ACTIVITY REQUIRES MAINLINE TRAFFIC TO BE TEMPORARILY STOPPED IN ONE OR BOTH DIRECTIONS. DELAY TO HIGHWAY TRAFFIC SHALL BE MINIMIZED.

LEGEND

- SIGN ON TEMPORARY SUPPORT
- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC

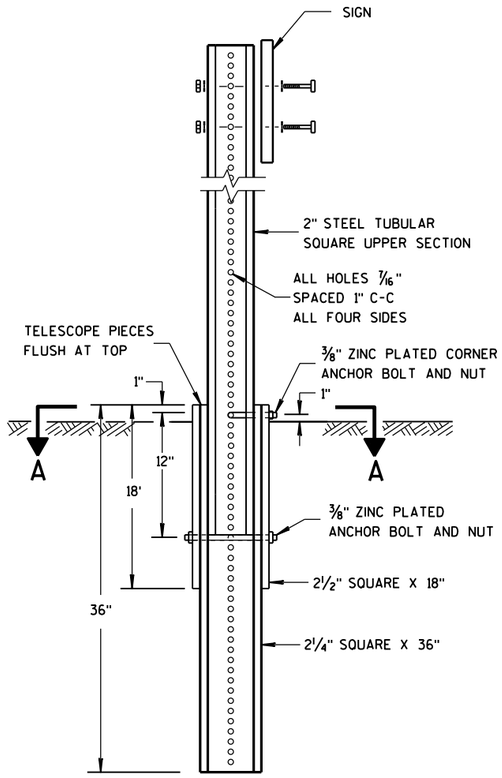
TRAFFIC CONTROL, VEHICLE ENTRANCE/EXIT OR HAUL ROAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

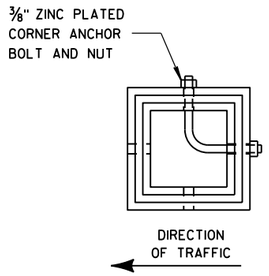
APPROVED
June 2016 — DATE
/S/ Peter Amakobe Atepe — STATEWIDE WORK ZONE SAFETY ENGINEER
FHWA

6

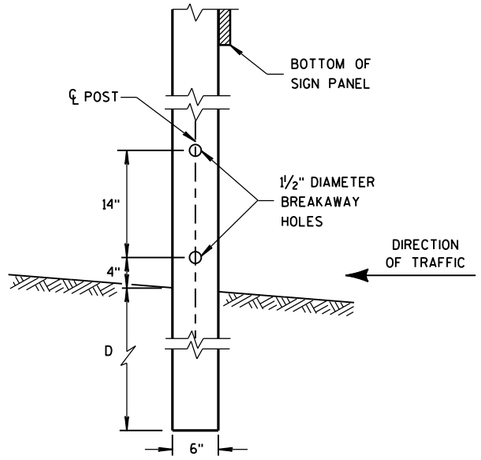
S.D.D. 15 D 29-4



DETAIL OF TUBULAR STEEL SIGN POST



SECTION A-A



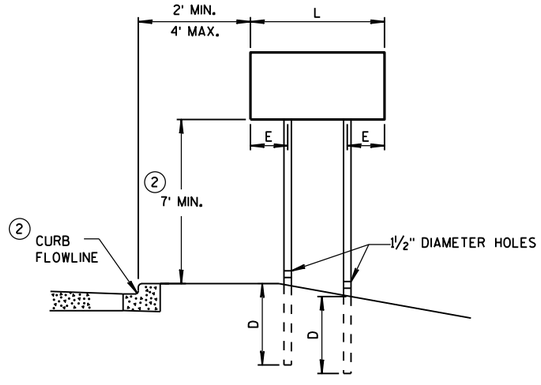
4"x6" WOOD POST MODIFICATION

GENERAL NOTES

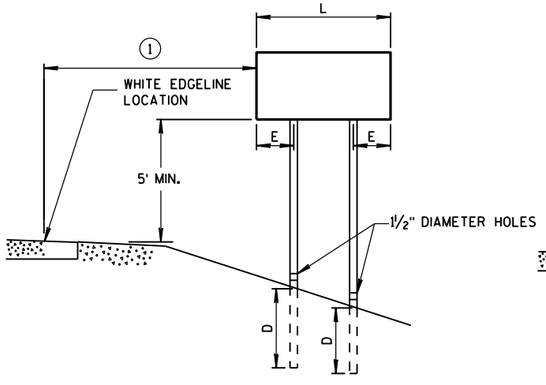
(1) 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.

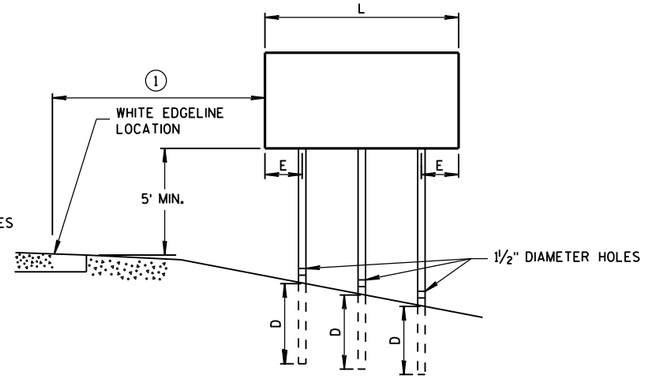
(2) THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY MEASURED WHERE THERE IS SIDEWALK ADJACENT TO THE ROADWAY OR PARKING IS PERMITTED. IN THE ABSENCE OF SIDEWALK, VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE CURB. IF NO SIDEWALK AND NO PARKING, VERTICAL CLEARANCE MAY BE REDUCED TO 5 FOOT MINIMUM. OFFSET OF SIGNS IS MEASURED FROM THE CURB FLOWLINE.

(3) FOR SIGNS REQUIRING 4 POSTS, SPACE INTERMEDIATE POSTS EVENLY.



URBAN AREA





RURAL AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

TUBULAR STEEL POSTS

AREA OF SIGN INSTALLATION (SQ. FT.)	NUMBER OF REQUIRED TUBULAR STEEL POSTS
9 OR LESS	1
GREATER THAN 9 LESS THAN OR EQUAL TO 18	2
GREATER THAN 18 LESS THAN OR EQUAL TO 27	3

SIGNS WIDER THAN 3 FEET OR LARGER THAN 9 SQ. FT. SHALL BE MOUNTED ON MULTIPLE POSTS (SEE ABOVE TABLE).

SIGNS LARGER THAN 27 SQ. FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.

WOOD POST EMBEDMENT DEPTH

AREA OF SIGN INSTALLATION (SQ. FT.)	D (MIN)
20 OR LESS	4'
GREATER THAN 20	5'

4" X 6" WOOD POST

POST SPACING REQUIREMENTS		NUMBER OF WOOD POSTS REQUIRED
L	E	
48" OR LESS AND LESS THAN 20 SQ. FT.	-	1
LESS THAN 60"	12"	2
60" TO 120"	L/5	2
GREATER THAN 120" LESS THAN 168"	12"	3
168" AND GREATER	12"	4

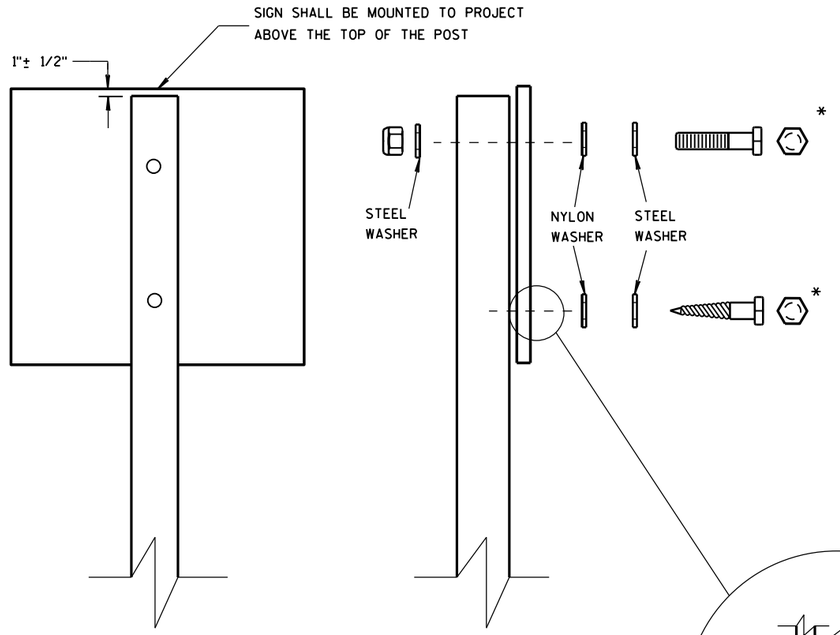
SEE NOTE (3)

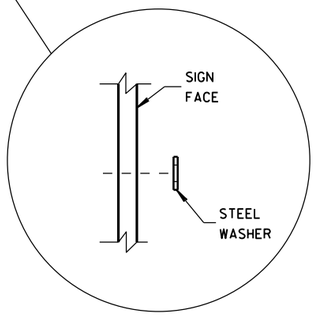
TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

STATE OF WISCONSIN DEPARTMENT OF TRANSPOR

6

S.D.D. 15 D 38-1a





WASHER PLACEMENT WHEN SIGN HAS OTHER THAN TYPE H OR TYPE F FACE

NUTS, BOLTS AND LAGS USED FOR MOUNTING SIGNS SHALL HAVE HEXAGONAL HEADS AND SHALL BE EITHER:

A. HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: A 153, CLASS D, OR SC 3

B. ELECTRO-GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: B 633, TYPE III, SC 3

THREADS ON BOLTS AND NUTS SHALL BE MANUFACTURED WITH SUFFICIENT ALLOWANCE FOR THE CADMIUM PLATE OR GALVANIZED COATING TO PERMIT THE NUTS TO RUN FREELY ON THE BOLTS.

WOOD POSTS (4" x 4" or 4" x 6")

LAG SCREWS - 3/8" X 3"

MACHINE BOLTS - 5/16" X 6-1/2" OR 7" LENGTH W/ NUTS

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" LENGTH W/ NUTS

RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL

1-1/4" O.D. X 3/8" I.D. X .080 NYLON FOR ALL TYPE H SIGNS

* TWO DIFFERENT FASTENING SYSTEMS ARE SHOWN FOR ILLUSTRATION PURPOSES. ON ANY INDIVIDUAL SIGN, EITHER ONE OR THE OTHER SYSTEM SHALL BE USED. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA. FOR A SINGLE POST INSTALLATION, ALL SIGNS GREATER THAN 9 SQ. FT. REQUIRE THE USE OF 3 FASTENERS.

6

6

S.D.D. 15 D 38-1b

S.D.D. 15 D 38-1b

ATTACHMENT OF SIGNS TO POSTS

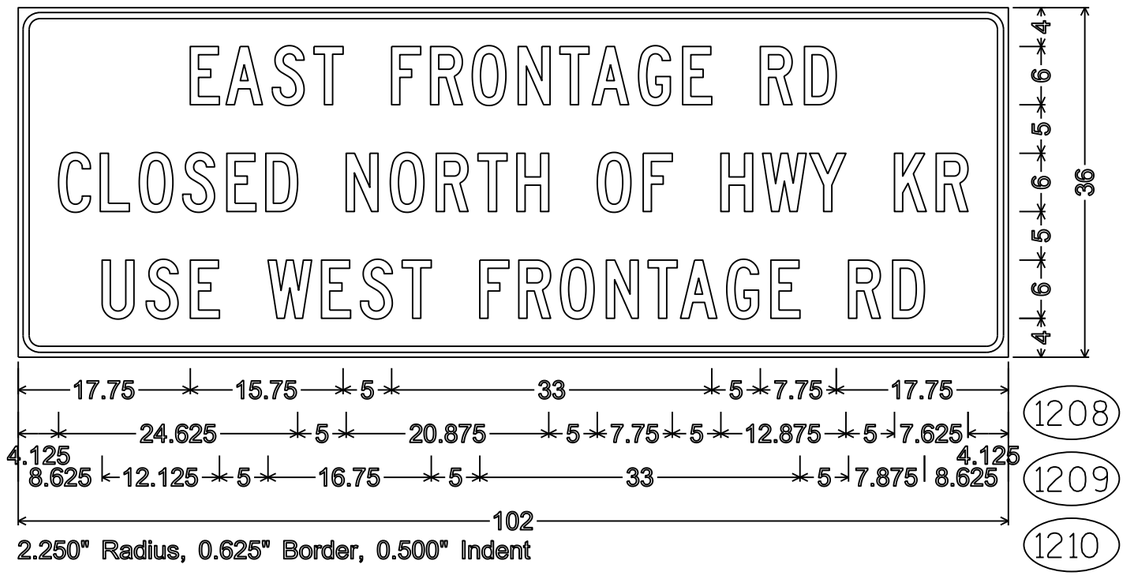
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

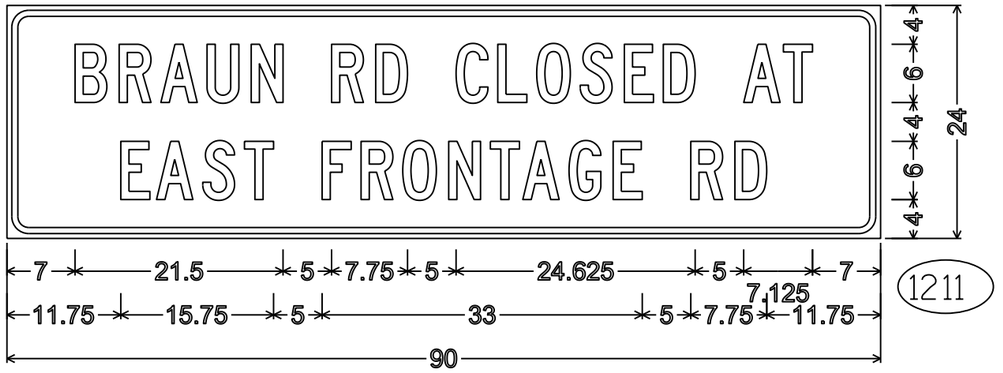
APPROVED
Feb. 2015 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

SIGN

NOTES

1. Fixed Message Type II Signs - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C



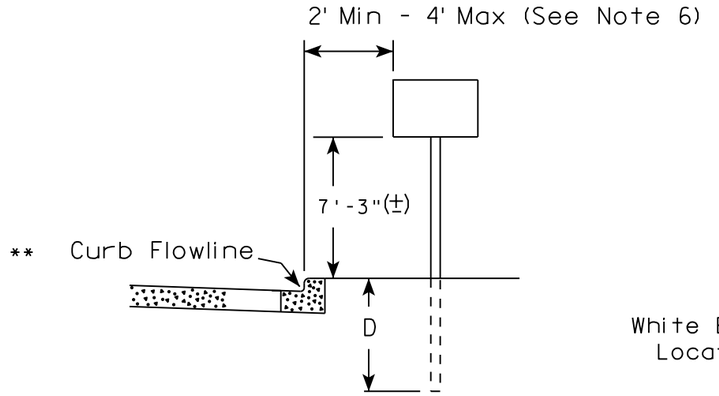


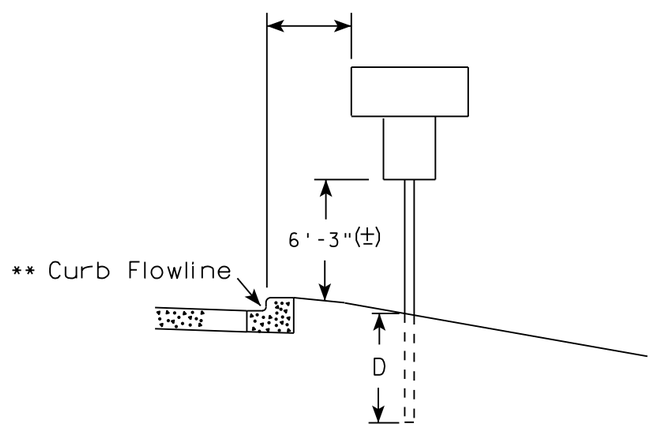
7

7

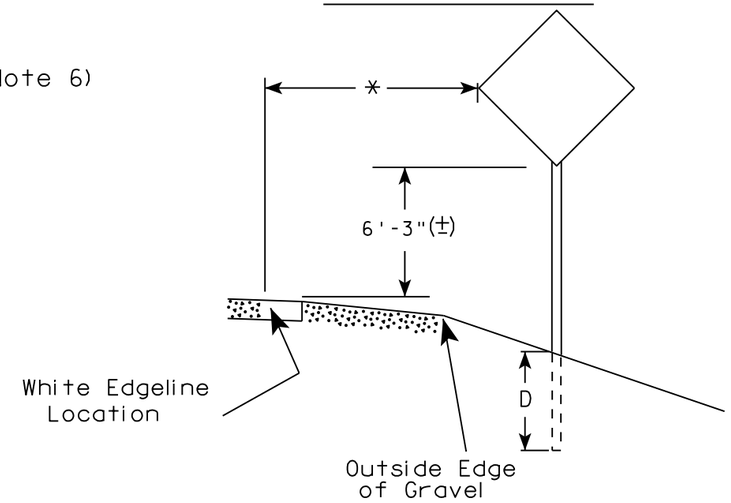
PROJECT NO: 1030-24-77	HWY: IH 94	COUNTY: RACINE	TEMPORARY SIGNING	SHEET NO: 145	E

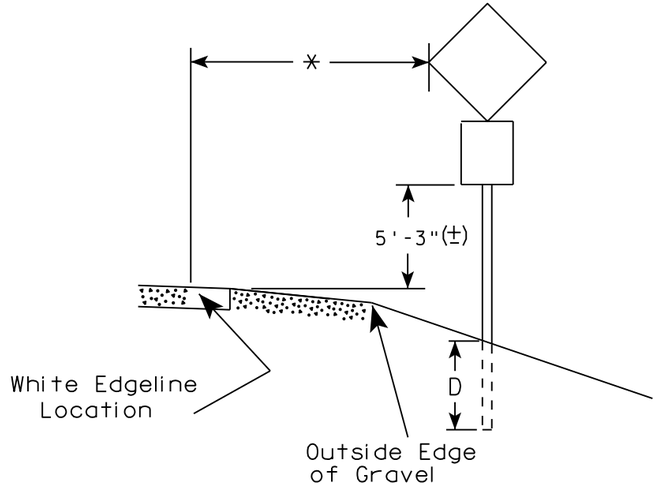
URBAN AREA





RURAL AREA (See Note 2)





GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on barrier wall, see A4-10 sign plate.
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. J-Assemblies are considered to be one sign for mounting height.
5. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. The (±) tolerance for mounting height is 3 inches.
8. Folding signs shall be mounted at a height of 5'-3" (±) or as directd by the Engineer.
9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq.Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

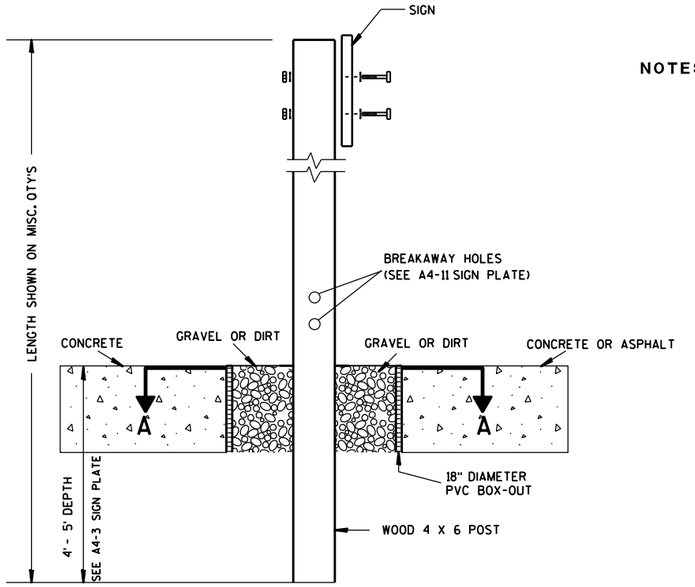
APPROVED Matthew R Rauch for State Traffic Engineer

DATE 8/21/17 PLATE NO. A4-3.21

7

7

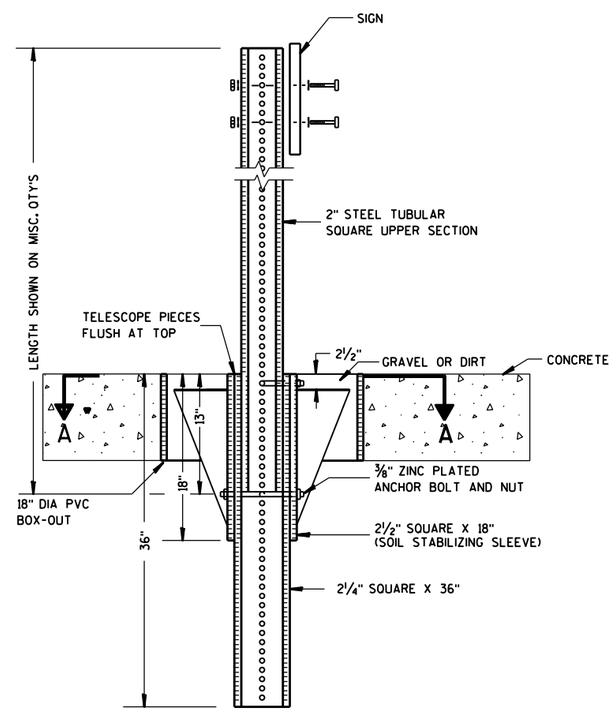
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 146	E



ELEVATION VIEW

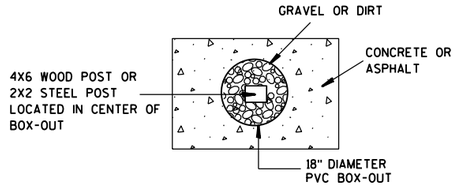
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

NOTES:
1. ALL MATERIAL TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION
2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

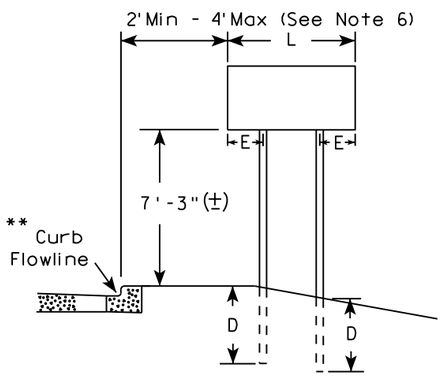
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

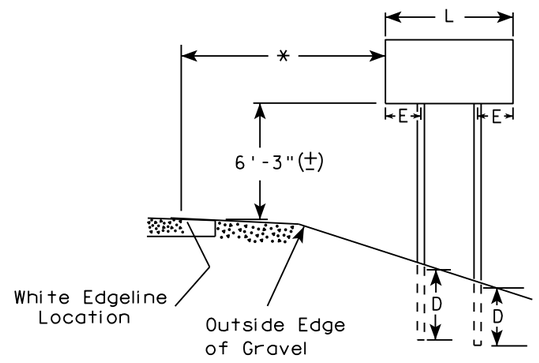
DATE 1/27/14 PLATE NO. A4-3B.1

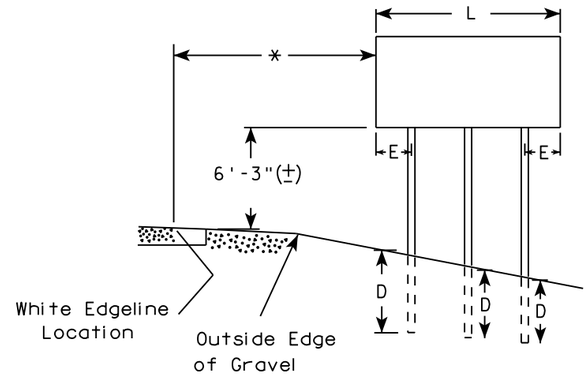
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

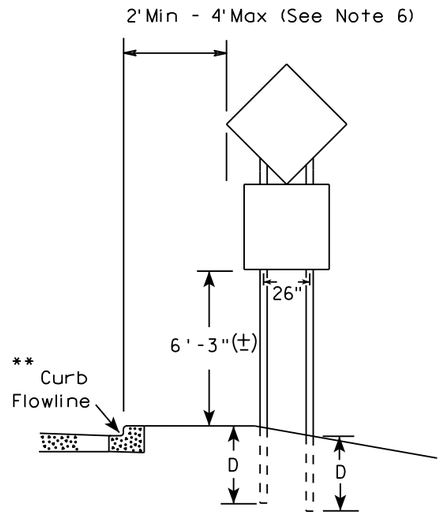
URBAN AREA



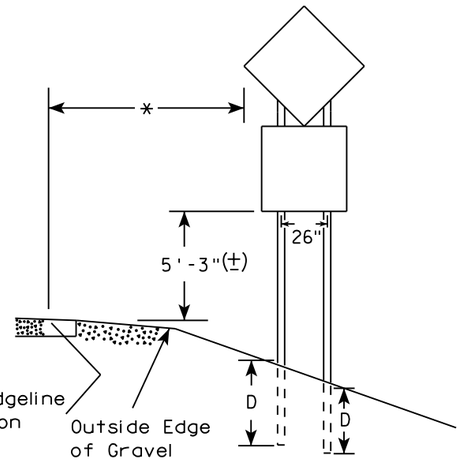
RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

***	SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)	
	L	E
	Greater than 48" Less than 60"	12"
	60" to 108"	L/5

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 108" to 144"	12"

GENERAL NOTES

1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
2. See tables below for required number of posts.
3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
4. The (±) tolerance for mounting height is 3 inches.
5. J-Assemblies are considered to be one sign for mounting height.
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±).

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

*** See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

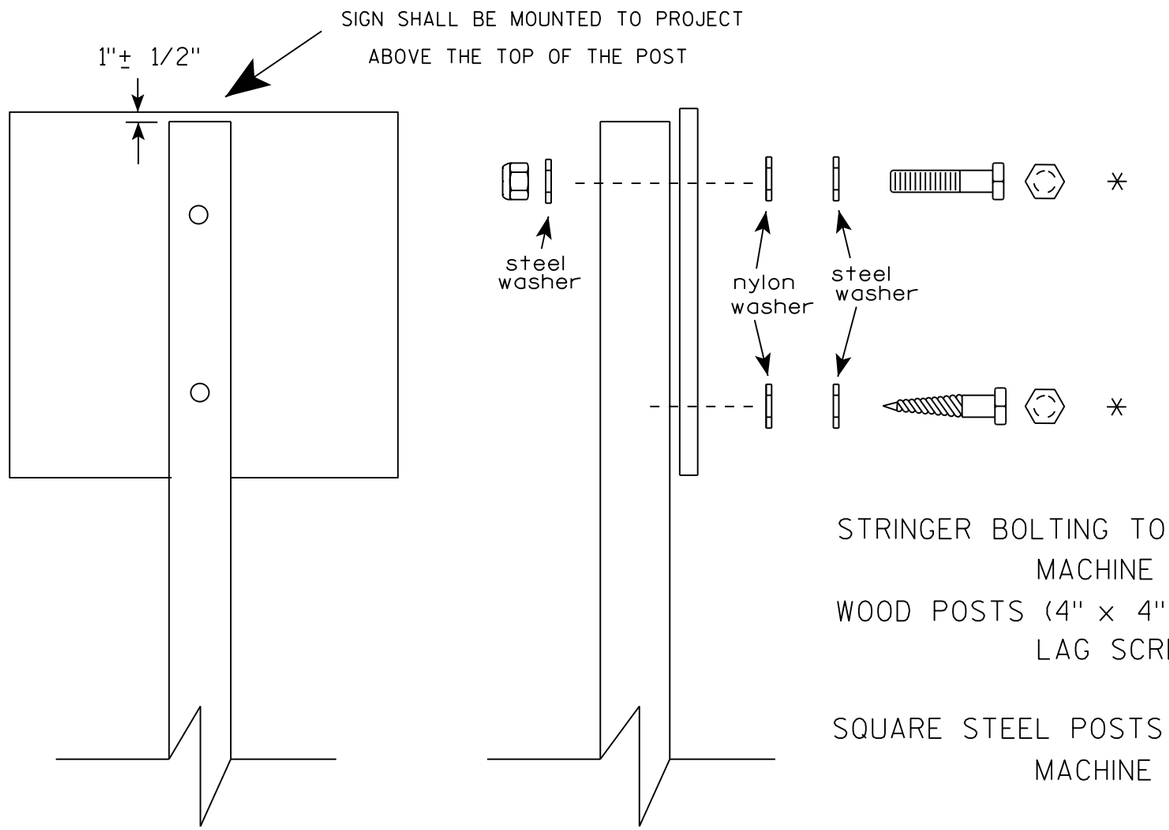
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 8/21/17 PLATE NO. A4-4.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 148	E



Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3
b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)
MACHINE BOLTS - 5/16" X 1-3/4" Length w/ lock nuts
WOOD POSTS (4" x 4" or 4" x 6")
LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)
3/8" X 4" (STRINGERS ON BACK OF SIGN)
SQUARE STEEL POSTS (2" x 2")
MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)
3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)
RIVETS - 9/32 " (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH
WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON

* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

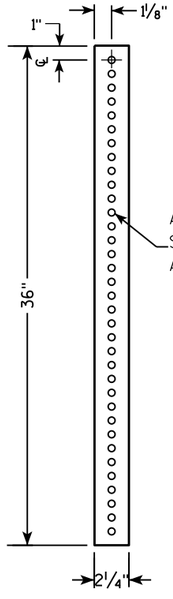
DATE 8/11/16 PLATE NO. A4-8.8

PROJECT NO: SHEET NO: E

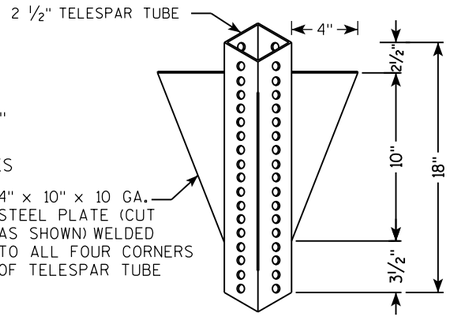
FILE NAME : C:\CADfiles\Projects\tr_stdplate\A48.DGN PLOT DATE : 11-AUG-2016 11:35 PLOT BY : $$ plotuser $$

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

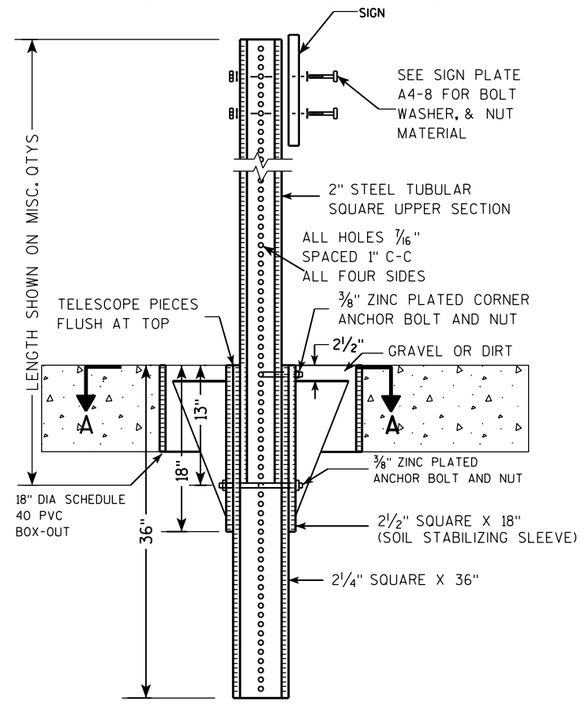
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



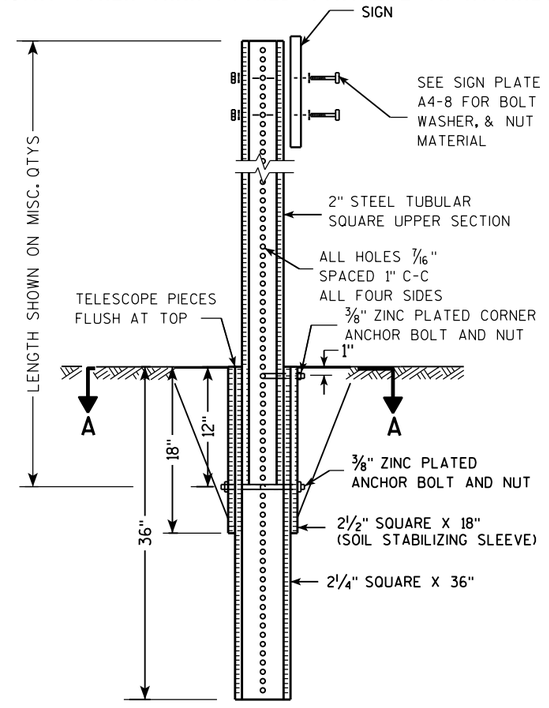
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

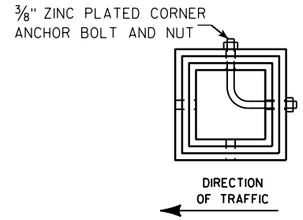


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



DETAIL OF TUBULAR STEEL SIGN POST
(IN LOCATIONS OTHER THAN POURED CONCRETE OR ASPHALT)





SECTION A-A

Area of Sign Installation (Sq. Ft.)	Number of Required Posts
9 or less	1
Greater than 9 less than or equal to 18	2
Greater than 18 less than or equal to 27	3

Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

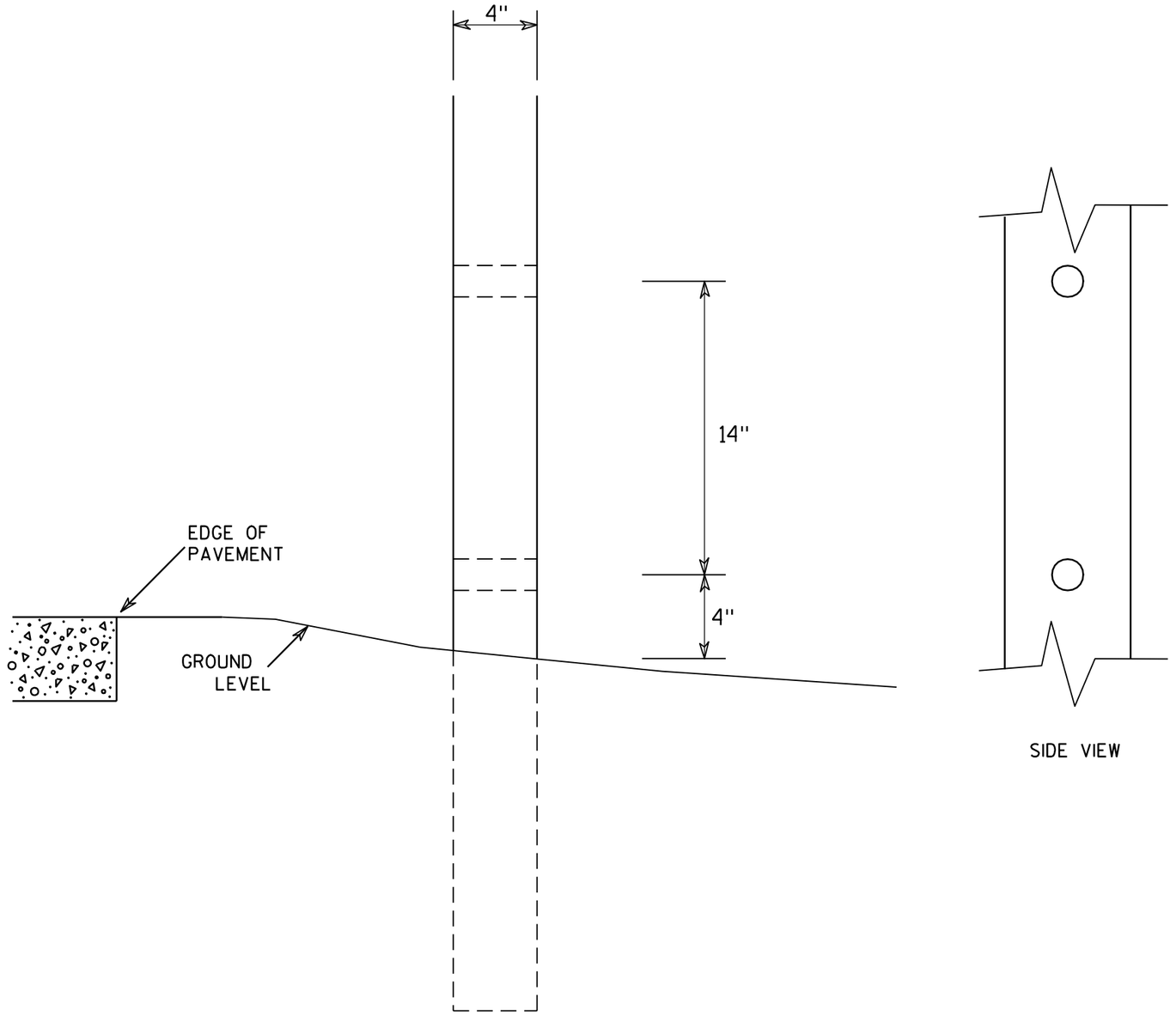
TUBULAR STEEL
SIGN POST
A4-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE 150 A4-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



SIDE VIEW

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

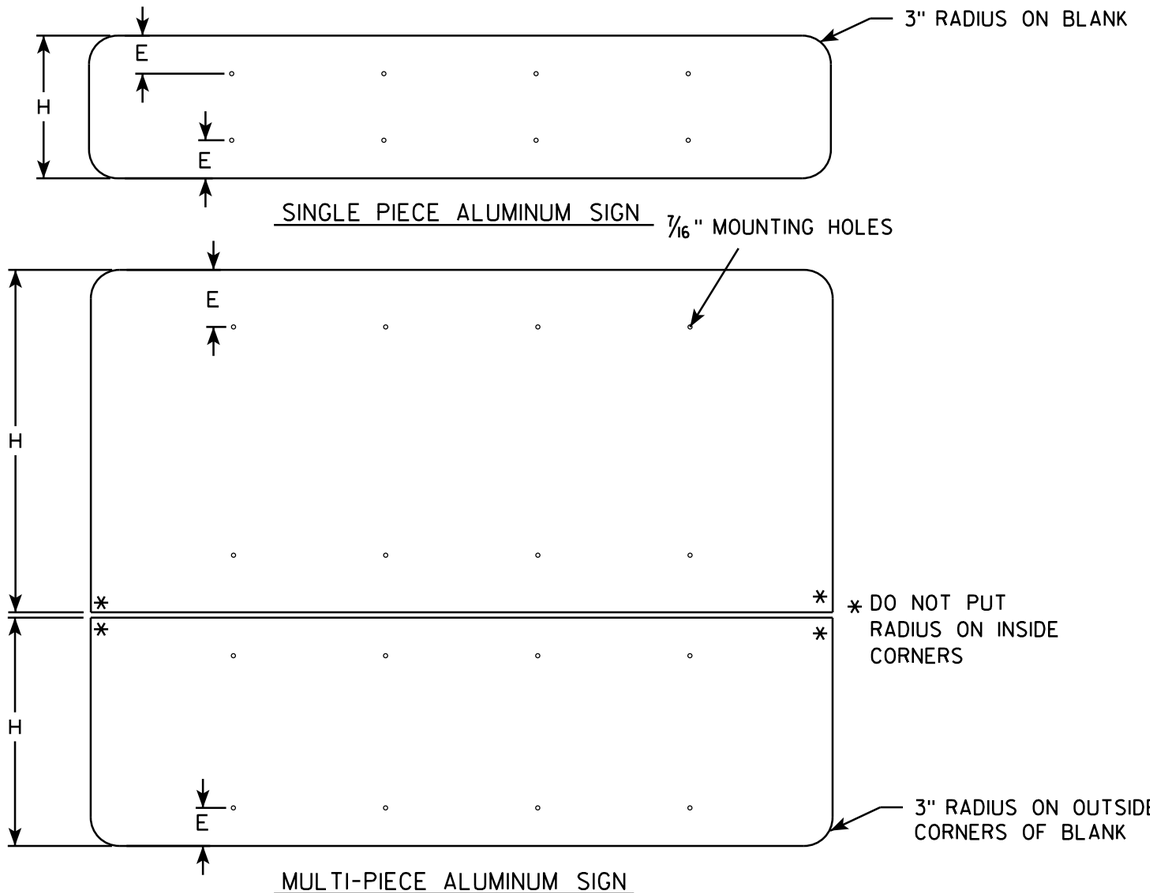
4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang for State Traffic Engineer

DATE 3/27/97 PLATE NO. A4-11.2

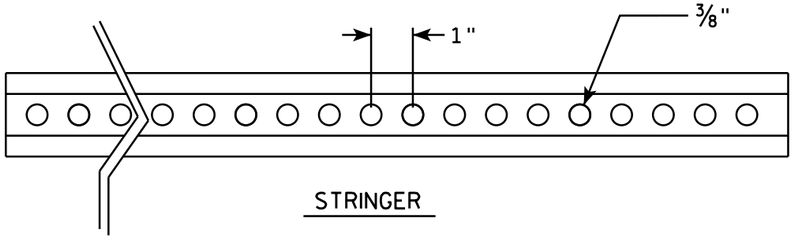
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 151	E



GENERAL NOTES

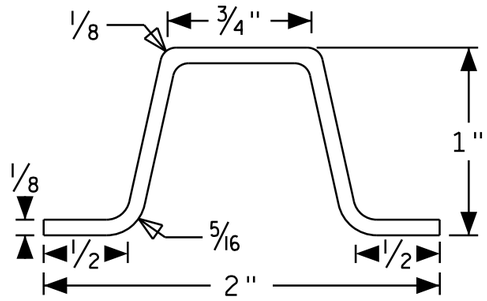
- ALL SIGNS OVER 60" IN WIDTH SHALL HAVE A 3" RADIUS ON THE OUTSIDE CORNERS OF THE ALUMINUM BLANK.
- MOUNTING HOLES SHALL BE 7/16" DIAMETER.
- SEE CHART FOR HOLE SPACING REQUIREMENTS
- FOR SIGN PANELS WITH DIMENSION (H) 36" AND OVER, DIMENSION E SHALL BE 6"
- FOR SIGN PANELS WITH DIMENSION (H) UNDER 36", DIMENSION E SHALL BE 4"
- SIGN STRINGER MATERIAL SHALL CONSIST OF STEEL CHANNEL POST SECTIONS, WEIGHING 1.12 LBS/FT IN ACCORDANCE WITH SECTION 633.2.1 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.
- SEE SIGN PLATE A4-8 FOR SIGN STRINGER BOLTING REQUIREMENTS.

SIGN WIDTH	STRINGER WIDTH	POSTS	HOLE SPACING	MOUNTING HOLES
78"	72"	2	16"	15" 31" 47" 63"
84"	72"	2	17"	16½" 33½" 50½" 67½"
90"	72"	2	18"	18" 36" 54" 72"
96"	90"	2	19"	19½" 38½" 57½" 76½"
102"	90"	2	20"	21" 41" 61" 81"
108"	90"	2	21"	22½" 43½" 64½" 85½"
114"	108"	3	15"	12" 27" 42" 57" 72" 87" 102"
120"	108"	3	16"	12" 28" 44" 60" 76" 92" 108"
126"	108"	3	17"	12" 29" 46" 63" 80" 97" 114"
132"	126"	3	18"	12" 30" 48" 66" 84" 102" 120"
138"	126"	3	19"	12" 31" 50" 69" 88" 107" 126"
144"	126"	3	20"	12" 32" 52" 72" 92" 112" 132"

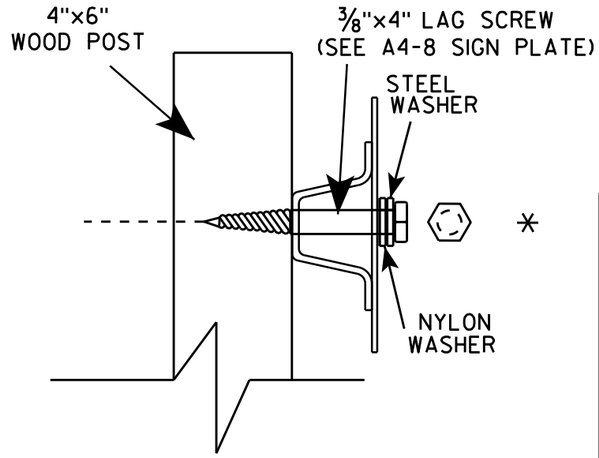


STRINGER

CROSS SECTION VIEW OF CHANNEL



POST MOUNTING



SIGN STRINGER MOUNTING REQUIREMENTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch

for State Traffic Engineer

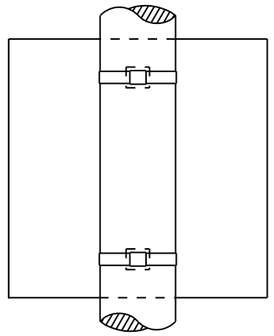
DATE 4/26/16 PLATE NO A4-18.1

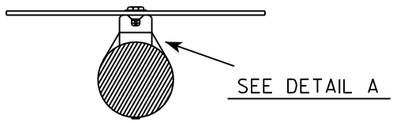
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A418.dgn PLOT DATE : 27-APR-2016 13:56 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 41.805205:1.000000 WISDOT/CADDS SHEET 42

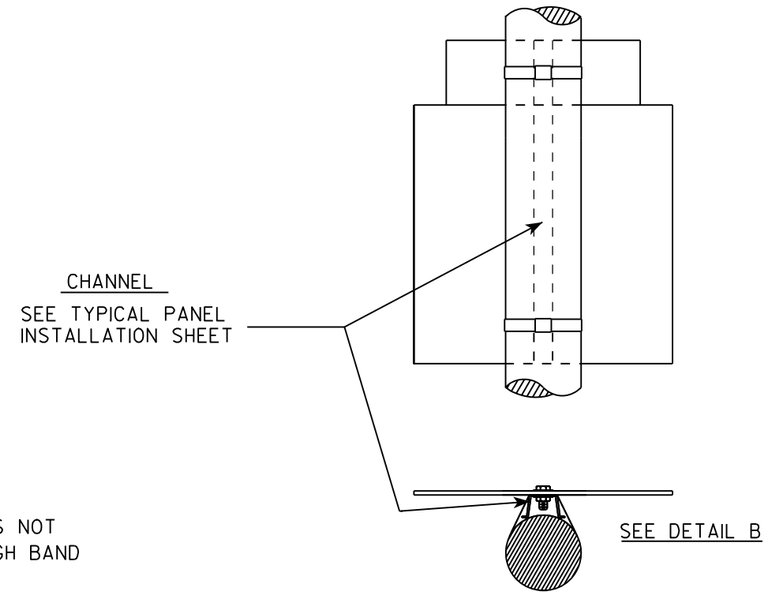
BANDING

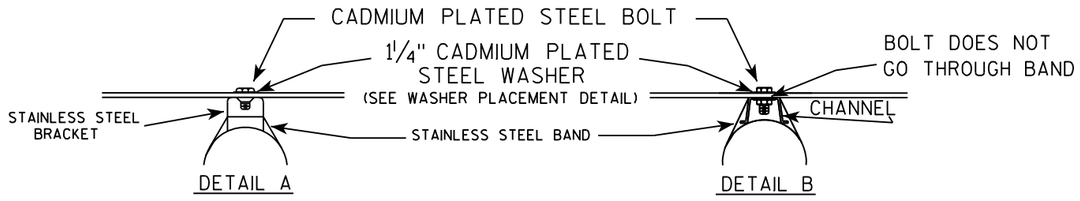
SINGLE SIGN



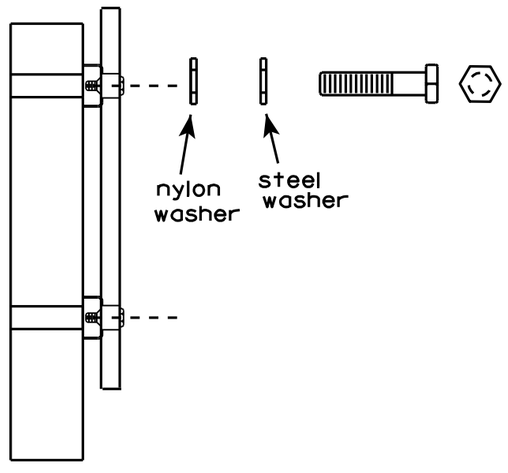


"J" ASSEMBLY





WASHER PLACEMENT



WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be 3/4" in width and 0.025" thickness.

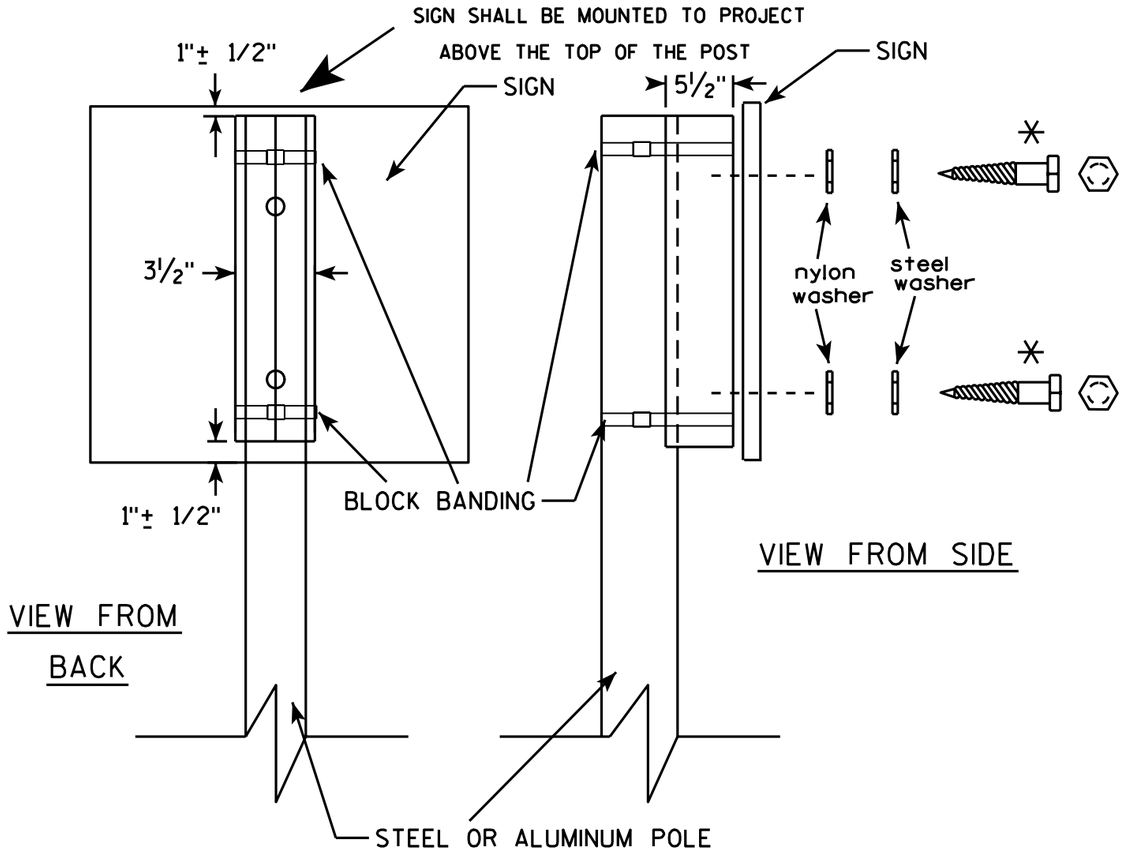
STANDARD SIGN
SIGN BANDING DETAILS

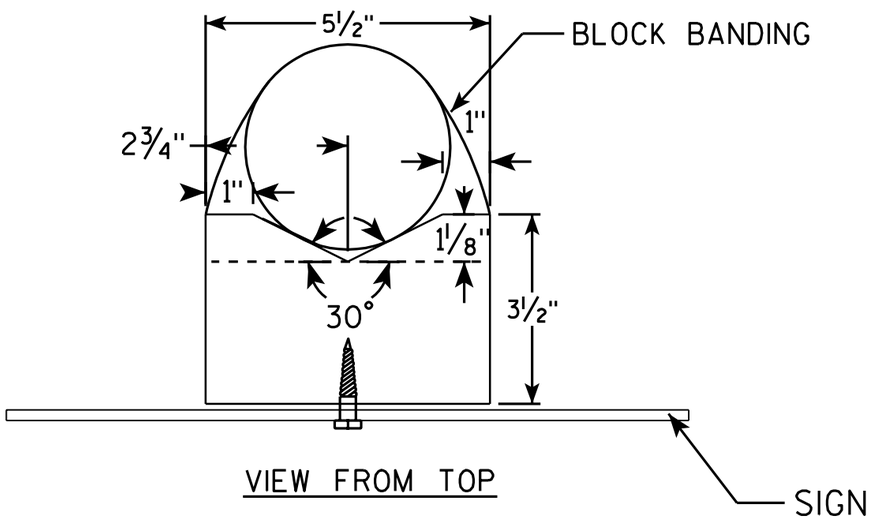
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/16/13 PLATE NO. A5-9.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 153	E





GENERAL NOTES

1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WisDOT STANDARD SPECIFICATIONS
2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, ¾" WIDTH AND 0.025" THICKNESS
3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D, or
   b. Cadmium plated in accordance with ASTM Designation : B 766 TYPE 3, Class 12, or
   c. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.
6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
7. STEEL WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X 1/16"
8. NYLON WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

✳ LAG BOLTS SHALL BE ⅜" X 2½"

BLOCK BANDING DETAIL (V-BLOCK OPTION)

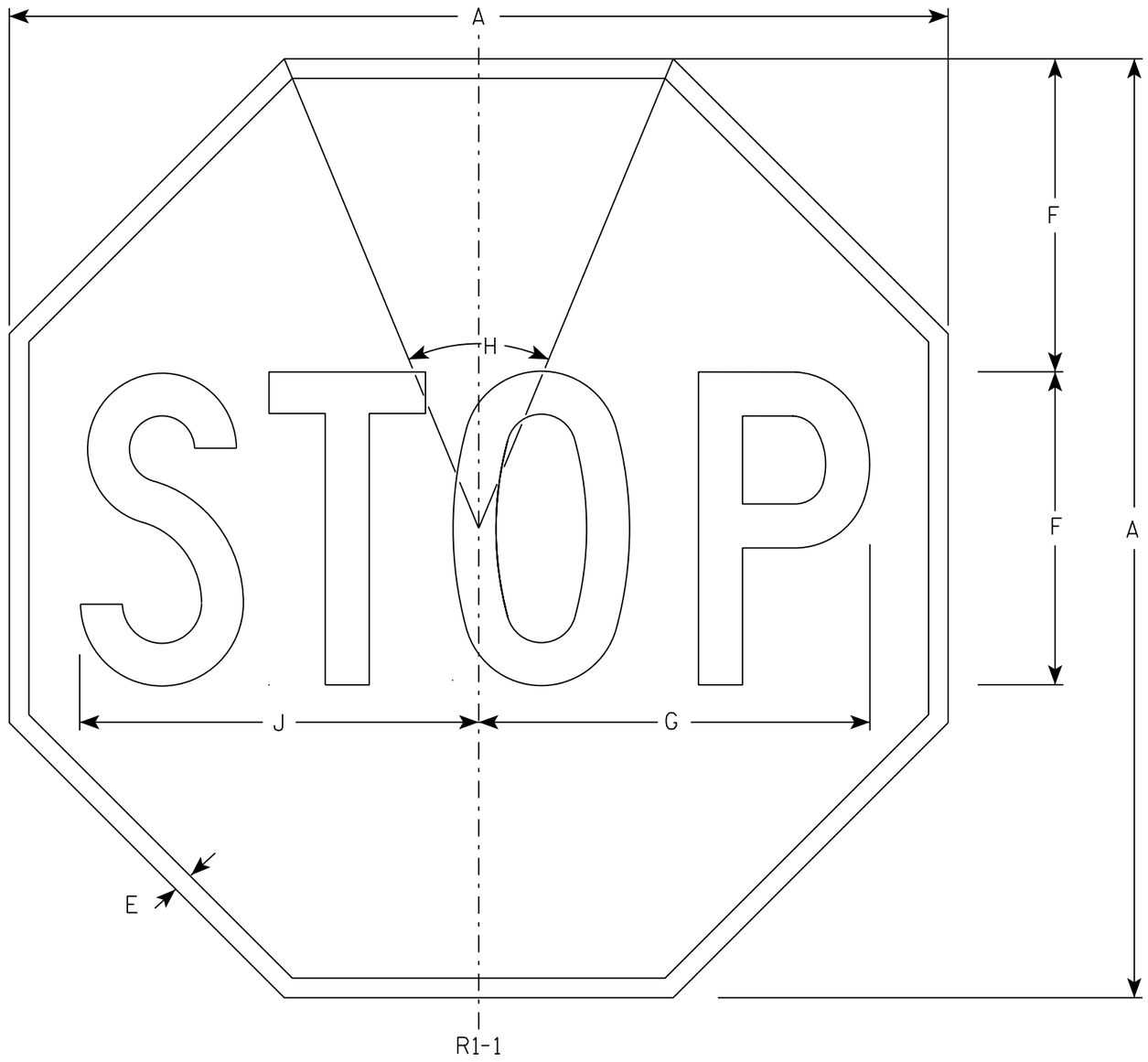
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/12/07 PLATE NO. A5-10.1

PROJECT NO:

SHEET NO: 154 E



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - C

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2S	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2M	36				3/4	12	15	45°		15 3/8																	7.46
3	36				3/4	12	15	45°		15 3/8																	7.46
4	48				1	16	20	45°		20 1/2																	13.25
5	48				1	16	20	45°		20 1/2																	13.25
6	18				3/8	6	7 3/4	45°		7 3/4																	1.86
7	12				1/4	4	5	45°		5 1/8																	0.78

STANDARD SIGN
R1-1

WISCONSIN DEPT OF TRANSPORTATION

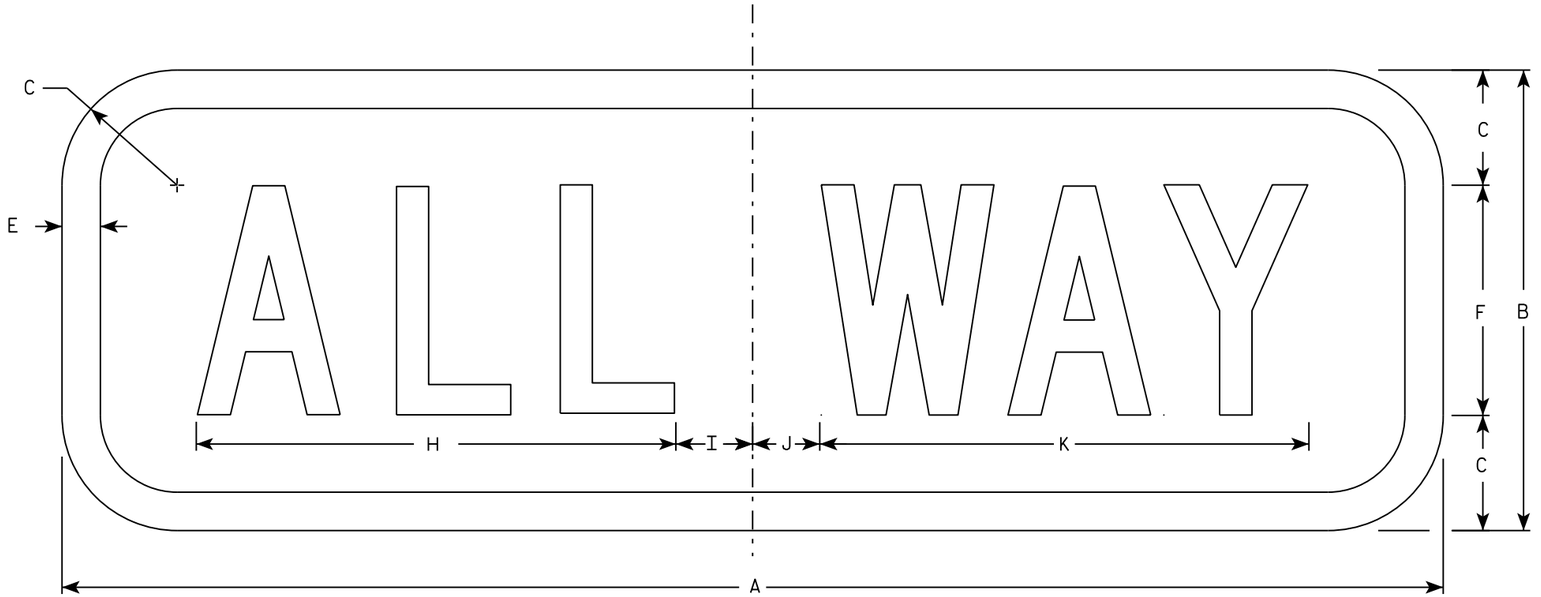
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/12/15 PLATE NO. R1-1.13

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 155	E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - Red
   Message - White
3. Message Series - C
4. For 30"x30" R1-1 use 18"x6" R1-3P sign
   For 36"x36" R1-1 use 24"x9" R1-3P sign
   For 48"x48" R1-1 use 30"x12" R1-3P sign



R1-3P

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	6	1 ½		½	3		6 ¼	1 ¼	⅞	6 ⅜																0.75
2S	18	6	1 ½		½	3		6 ¼	1 ¼	⅞	6 ⅜																1.5
2M	24	9	1 ½		½	5		9 ¼	1 ¼	¾	9 ¾																1.5
3	24	9	1 ½		½	5		9 ¼	1 ¼	¾	9 ¾																1.5
4	30	12	2 ¼		⅝	6		11	2 ¼	1 ½	11 ¾																2.5
5	30	12	2 ¼		⅝	6		11	2 ¼	1 ½	11 ¾																2.5

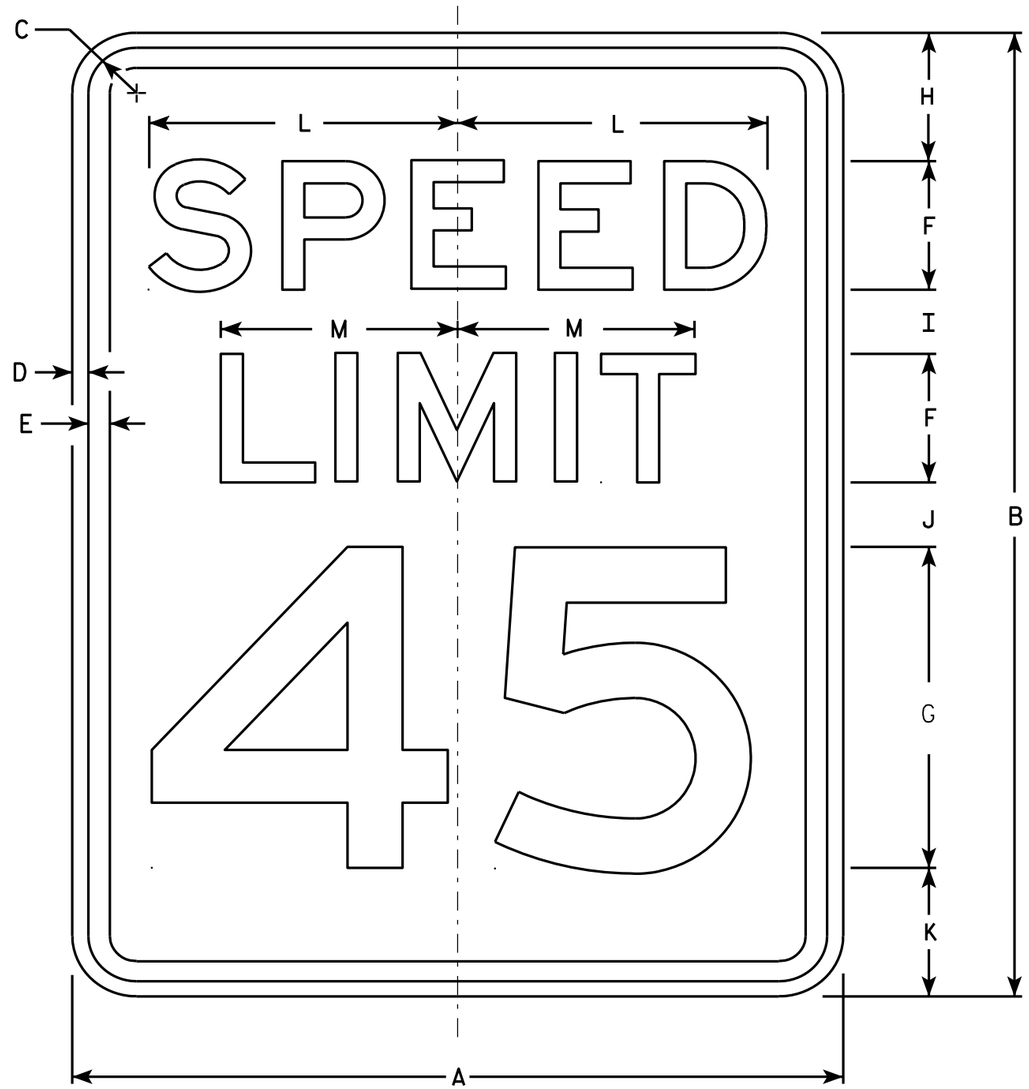
STANDARD SIGN
R1-3P

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/29/16 PLATE NO. R1-3P.3

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 156 | E



R2-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0
2S	24	30	1 1/8	3/8	1/2	4	10	3	2 1/4	3 3/8	3 3/8	9 5/8	7 3/8														5.0
2M	30	36	1 3/8	1/2	5/8	5	12	5	2 1/2	2 1/2	4	12	9 1/4														7.5
3	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
4	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
5	48	60	2 1/4	3/4	1	8	20	6	4 1/2	6 3/4	6 3/4	19 1/4	14 5/8														20.0

STANDARD SIGN
R2-1

WISCONSIN DEPT OF TRANSPORTATION

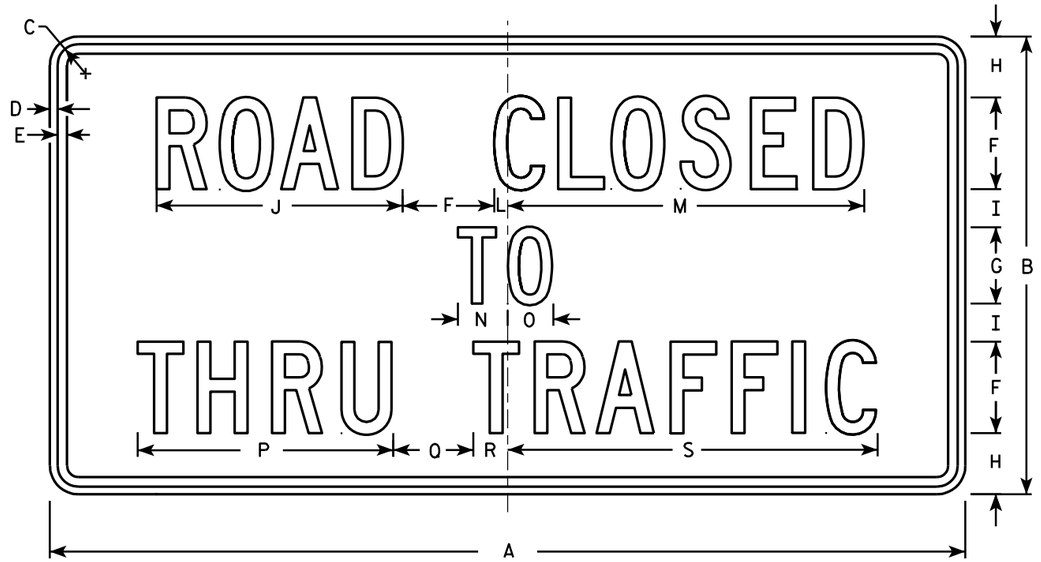
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/26/10 PLATE NO. R2-1.13

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 157 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R21.DGN PLOT DATE : 28-MAY-2010 08:32 PLOT BY : ditjph PLOT NAME : PLOT SCALE : 4.717577:1.000000

WISDOT/CADDS SHEET 42



R11-4

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	60	30	1 3/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
2M	60	30	1 3/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
3																											
4																											
5																											

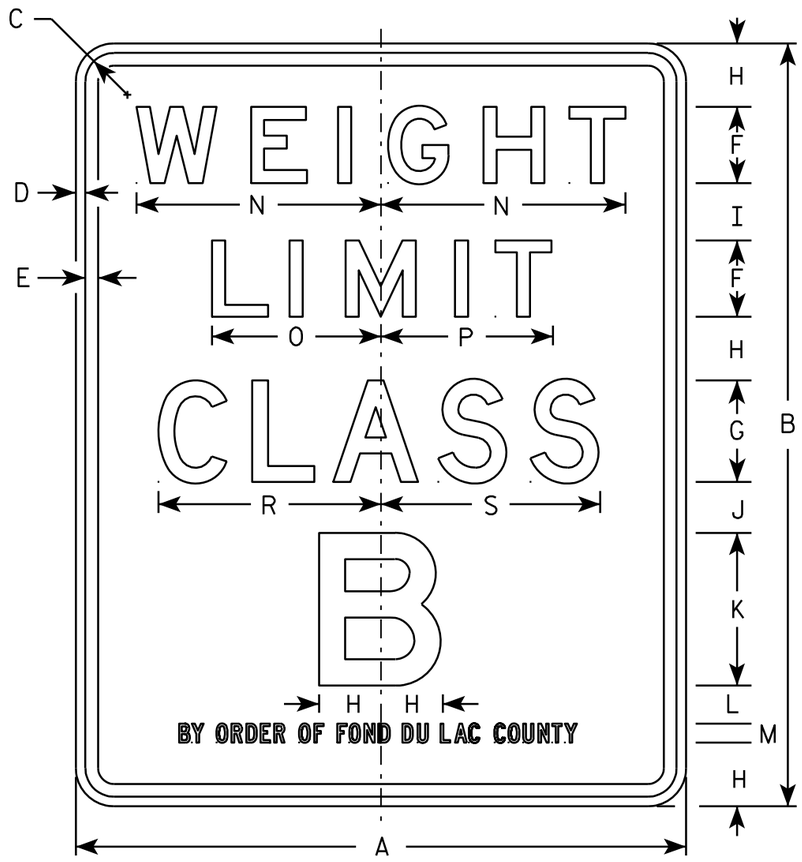
STANDARD SIGN
R11 - 4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 4/1/11 PLATE NO. R11-4.3

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 158 | E



R12-53

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - See Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1, 2 & 4 are Series E.
   Line 3 is Series D.
   Line 5 is Series C.
6. Line 5 of the sign shall vary with the name of the maintaining authority.

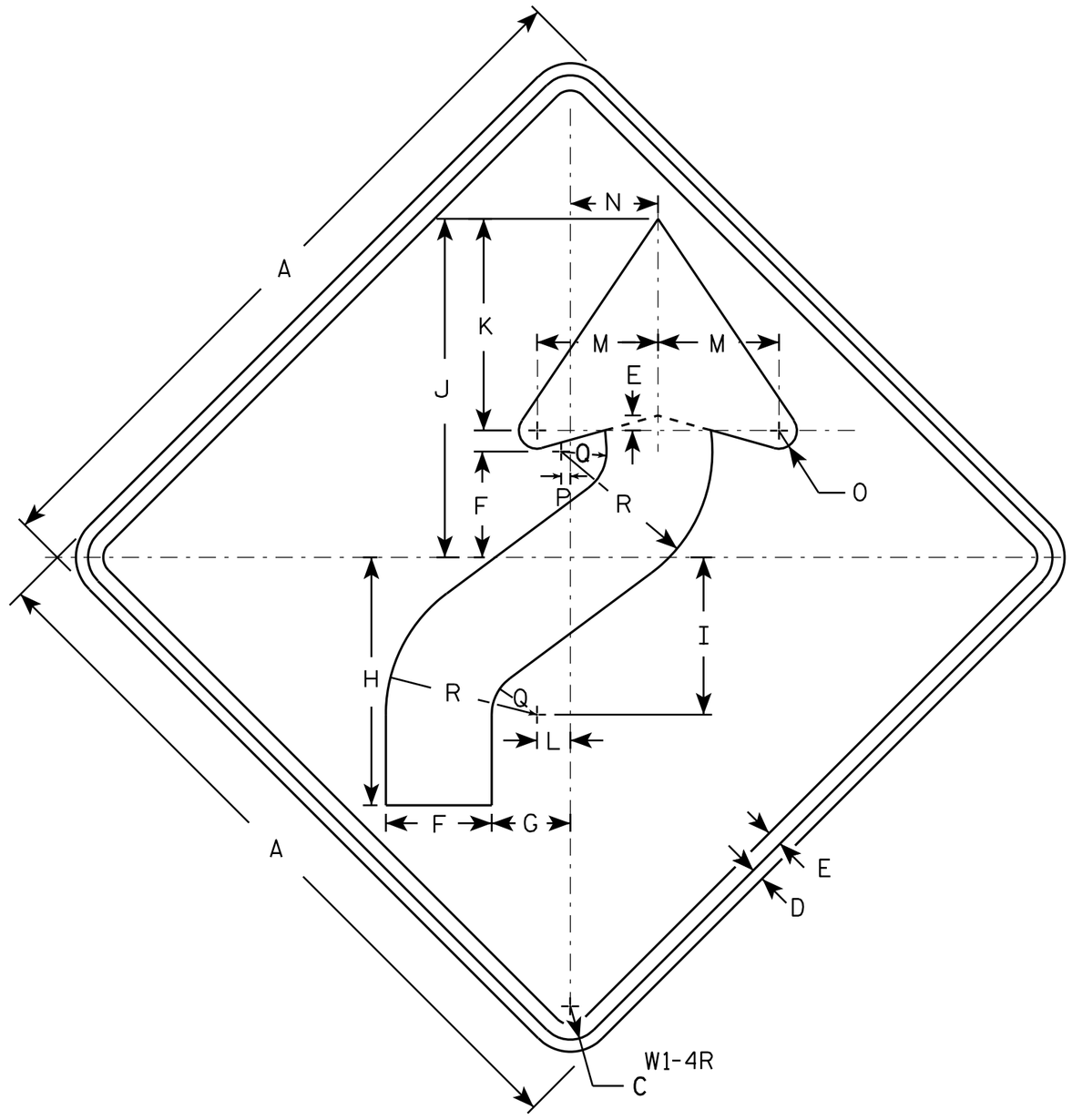
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	30	1 1/8	3/8	1/2	3	4	2 1/2	2 1/4	2	6	1 1/2	3/4	9 5/8	6 5/8	6 3/4		8 3/4	8 5/8								5.0
2M	24	30	1 1/8	3/8	1/2	3	4	2 1/2	2 1/4	2	6	1 1/2	3/4	9 5/8	6 5/8	6 3/4		8 3/4	8 5/8								5.0
3																											
4																											
5																											

STANDARD SIGN
R12-53

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer
DATE 4/1/11 PLATE NO. R12-53.3

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 159 | E



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W1-4L is the same as W1-4R except the arrow is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	3 1/2	2 5/8	8 1/4	5 1/4	11 1/4	7	1 1/8	4	3	5/8	1/4	1 1/2	5									4.0
2S	30		1 3/8	1/2	5/8	4 3/8	3 1/4	10 1/4	6 1/2	14	8 3/4	1 3/8	5	3 5/8	3/4	3/8	1 7/8	6 1/4									6.25
2M	36		1 5/8	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
3	36		1 5/8	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
4	36		1 5/8	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
5	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0

STANDARD SIGN

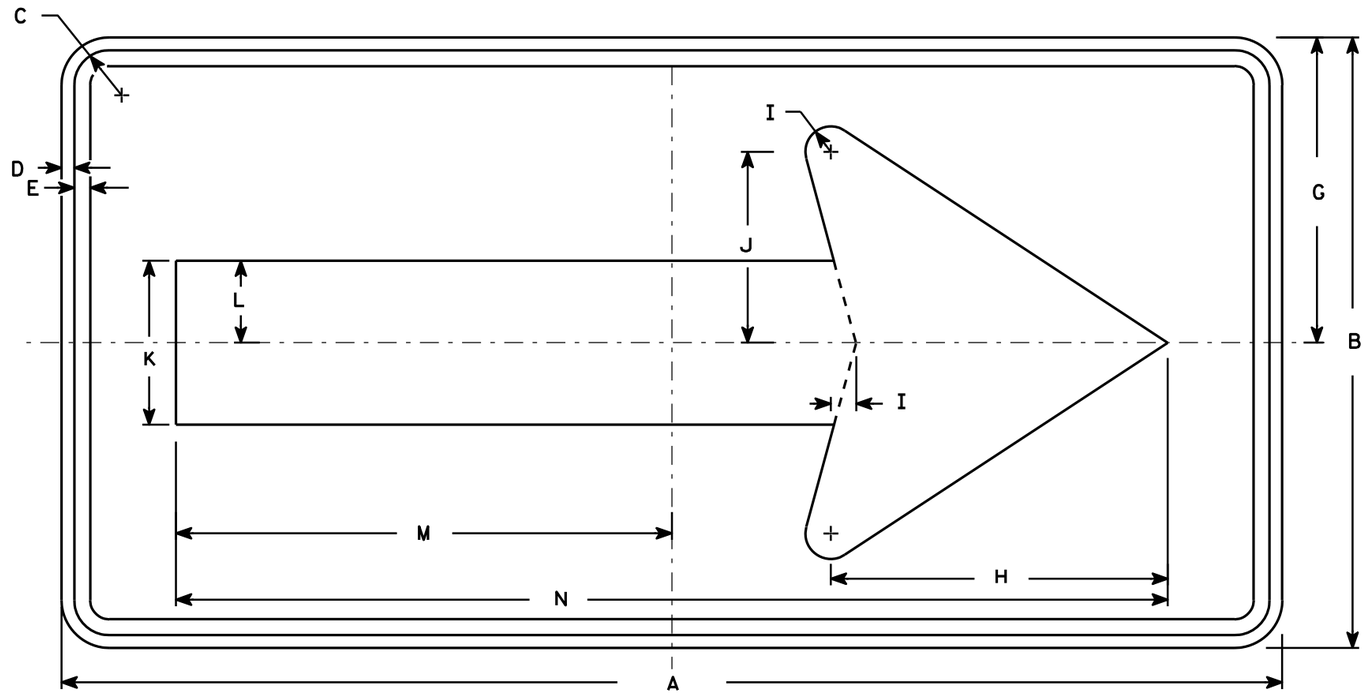
W1-4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 5/17/12 PLATE NO. W1-4.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 160 | E



W1-6

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	18	1 1/8	3/8	3/8		9	10	3/4	5 5/8	4 3/4	2 3/8	14 5/8	29 1/4													4.5
2S	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
2M	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
3	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
4	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
5	96	48	2 1/4	3/4	1		24	26 1/2	2	15	13	6 1/2	39	78													32.0

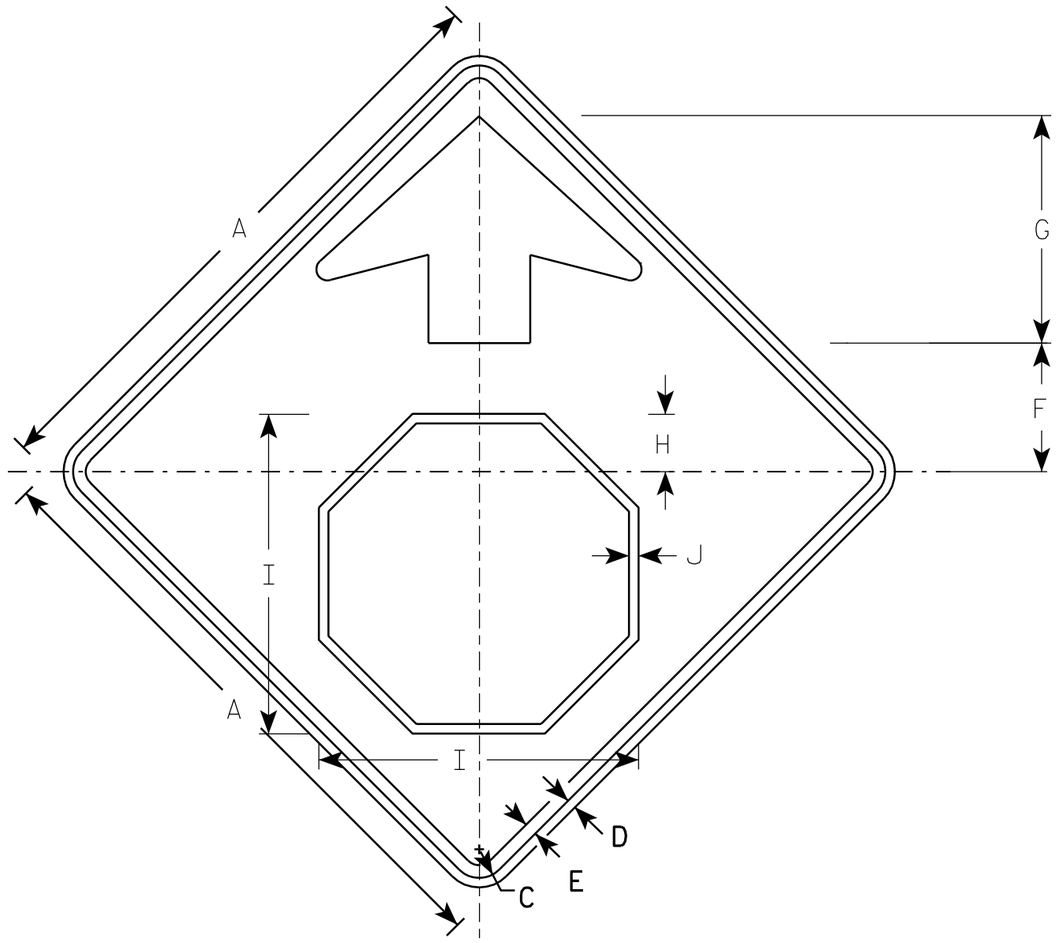
STANDARD SIGN
W1-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W1-6.8

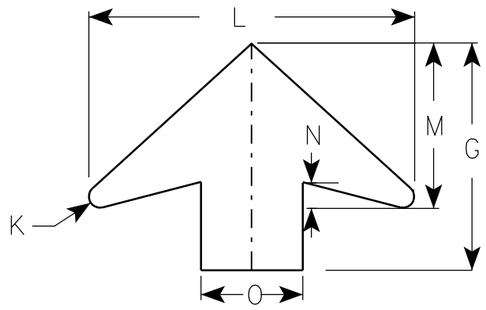
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 161



W3-1

NOTES

1. All Signs Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - YELLOW
   Arrow & Border - BLACK
   Stop Symbol - WHITE BORDER ON RED BACKGROUND



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	6 1/4	11 1/4	2 7/8	15 3/4	1/2	1/2	16	8	1 1/4	5												6.25
2S	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
2M	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
3	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
4	48		2 1/4	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0
5	48		2 1/4	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0

STANDARD SIGN
W3-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W3-1.12

PROJECT NO:

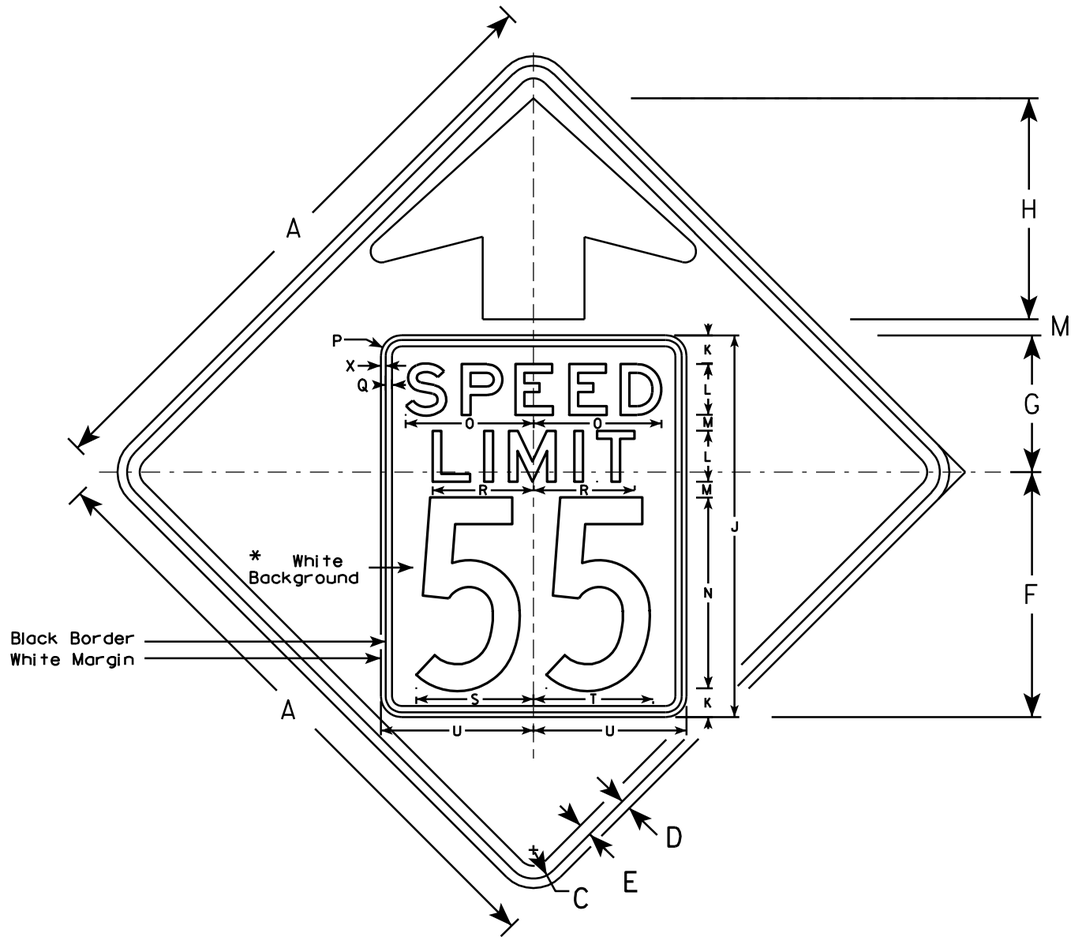
SHEET NO: 162 E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W31.DGN PLOT DATE : 07-JUN-2010 12:59 PLOT BY : ditjph

WISDOT/CADDS SHEET 42

7

7

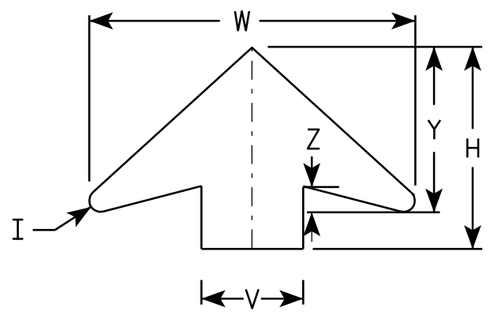


W3-5

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color: *
   Background - YELLOW*
   Message - BLACK
3. Message Series - C for numbers Series E for wording
4. Substitute appropriate numerals and optically adjust spacing to achieve proper balance

*Speed Limit Sign shall have a White Background



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
2M	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
3	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
4	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0
5	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0

STANDARD SIGN
W3-5

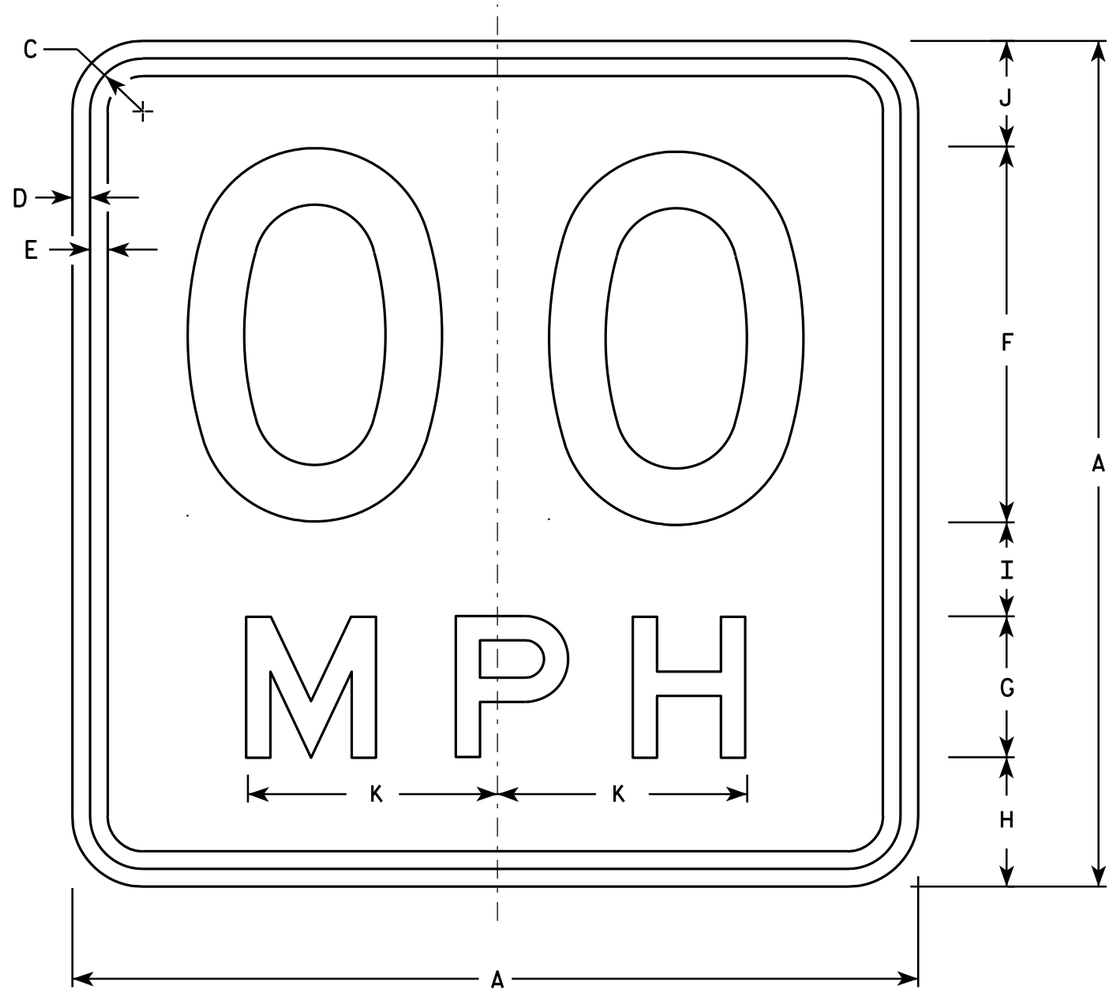
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/29/12 PLATE NO. W3-5.5

PROJECT NO:

SHEET NO: 163 E



W13-1

* For 30" x 30" Warning Signs, use 18" x 18" W13-1 signs.
For 36" x 36" Warning Signs, use 24" x 24" W13-1 signs.

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - See Note 6
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically space about centerline to achieve proper balance.
6. Line 1 is Series D
   Line 2 is Series E

	SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
	1	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
*	2S	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
*	2M	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
	3	24		1 1/8	3/8	1/2	10	4	4	2 3/4	3 1/4	6 5/8																4.00
	4	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
	5	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00

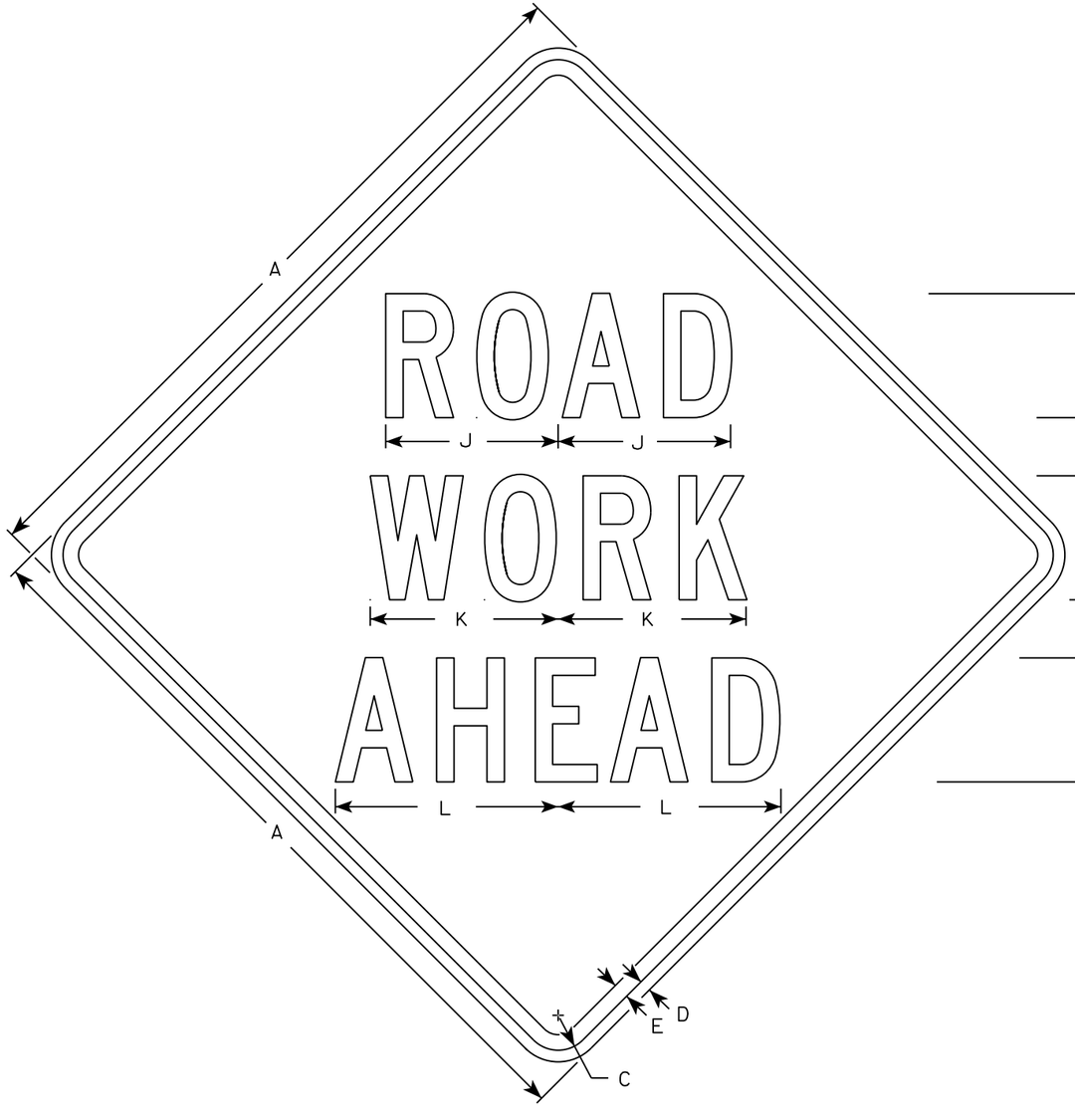
STANDARD SIGN
W13-1

WISCONSIN DEPT OF TRANSPORTATION

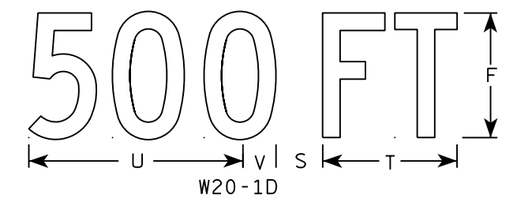
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 5/31/12 PLATE NO. W13-1.16

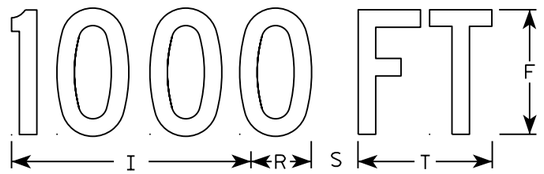
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 164	E



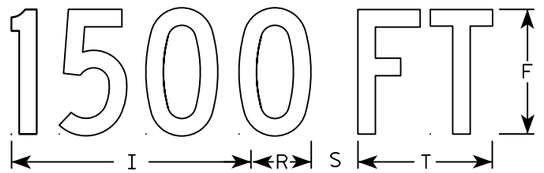
W20-1A



W20-1D

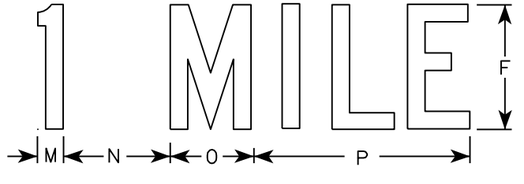


W20-1C

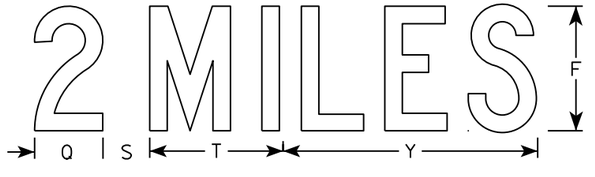


W20-1B

W20-1G



W20-1F



W20-1E

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 3/8	1/2	5/8	5	2 5/8	3 1/4	10 1/8	7	7 5/8	8 7/8	1 1/8	4 1/2	3 1/2	9		2 1/2	2 1/4	5 5/8	9	1 3/8	8	1 3/4	10 3/4	6	9.0
2S	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
2M	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
3	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
4	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
5	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0

STANDARD SIGN
W20-1A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

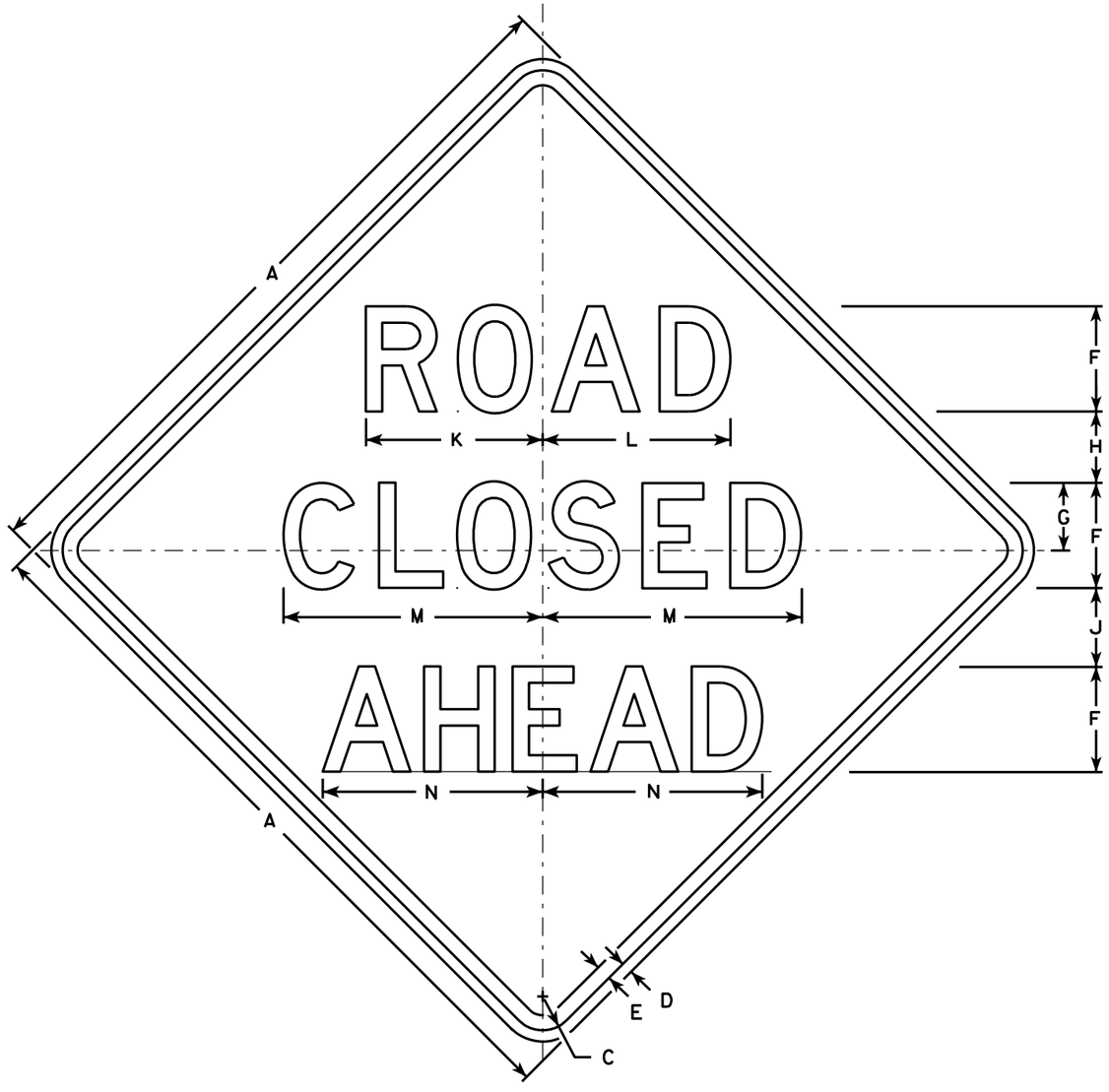
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/07/15 PLATE NO. W20-1.10

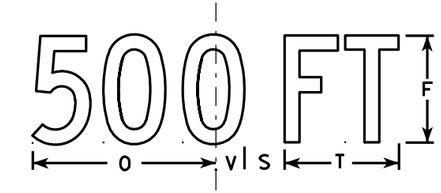
PROJECT NO:

SHEET NO: E

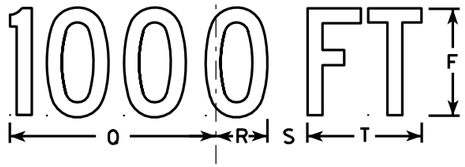
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W201.DGN PLOT DATE : 01-DEC-2015 18:24 PLOT BY : $$ plotuser $$



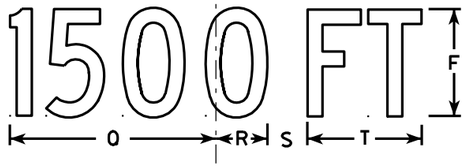
W20-3A



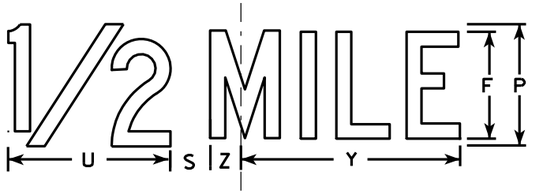
W20-3D



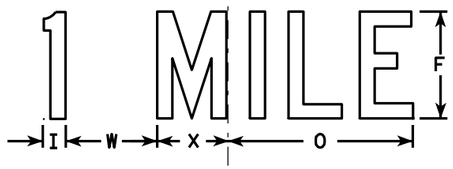
W20-3C



W20-3B



W20-3G



W20-3F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - see note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1 and 2 are Series D.
   Line 3 is Series D for AHEAD and Series C for all other distances.

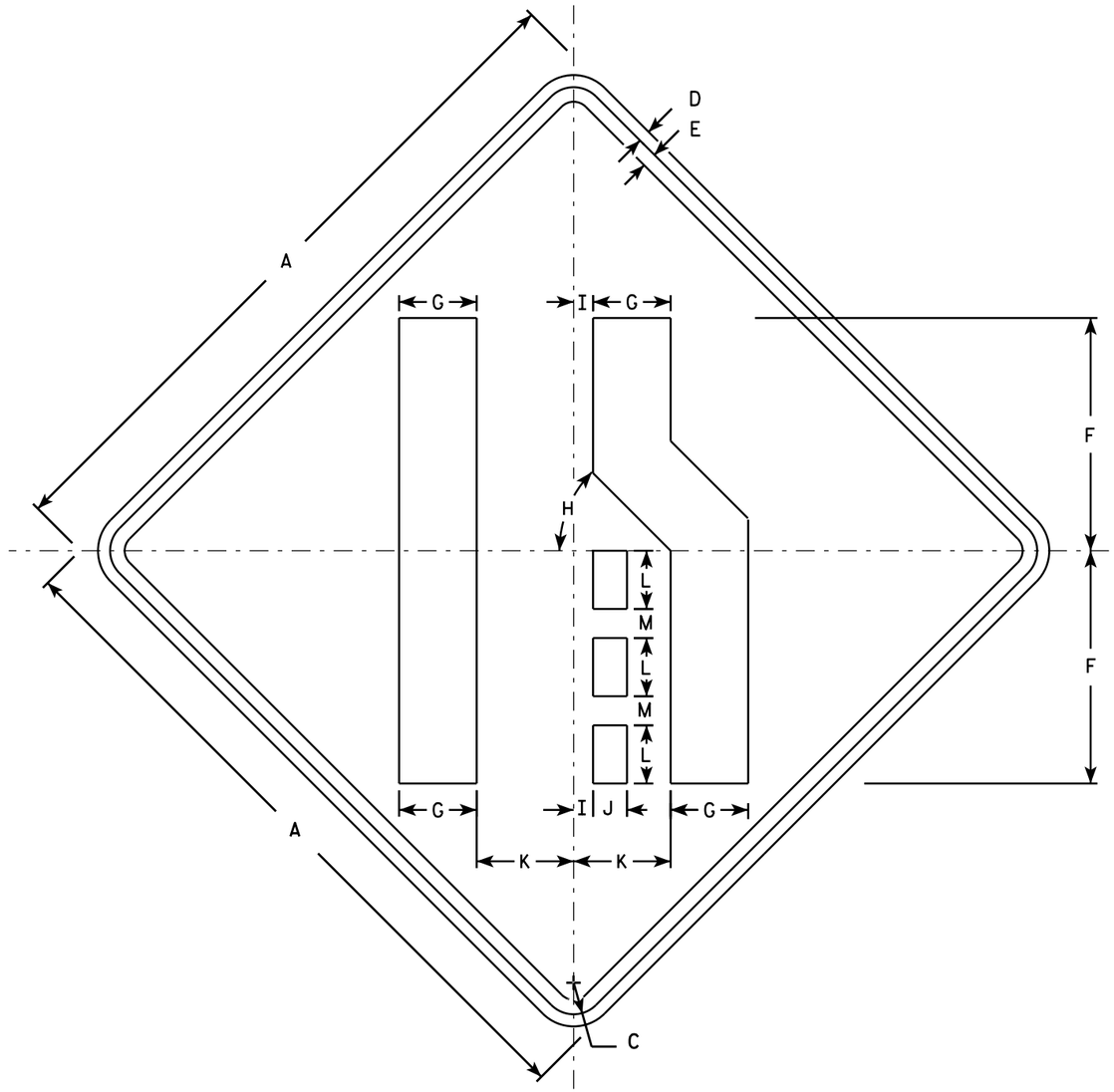
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5	3 3/8	3 1/2	1 1/8	4	8 3/8	8 7/8	12 1/2	11	9	6	10 1/8	2 1/2	1 7/8	5 5/8	8	1 3/8	4 1/2	3 1/2	10 3/4	1 3/4	9.0
2S	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
2M	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
3	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
4	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
5	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0

STANDARD SIGN
W20-3A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer
DATE 3/18/11 PLATE NO. W20-3.7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 166 | E



W04-2R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W04-2L is the same as W04-2R except the symbol is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
2S	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
2M	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
3	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
4	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
5	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0

STANDARD SIGN
W04-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE 167 W04-2.1

PROJECT NO: | SHEET NO: E

		EAST FRONTAGE ROAD										
		AREA (SF)		Incremental Vol (CY) (Unadjusted)				Cumulative Vol (CY) (Unadjusted)				Unadjusted
		Cut	Fill	Cut	Salvaged/Unusable	Fill	Existing Pavement	Cut	Salvaged/Unusable	Fill	Existing Pavement	Mass
STATION	Distance				Pavement Material		EBS	1.00	Pavement Material	1.00	EBS	Ordinate
5664+50	0.00	94	0	0	0	0	0	0	0	0	0	0
5665+00	50.00	86	1	167	0	1	0	167	0	1	0	165
5665+50	50.00	89	16	162	0	16	0	328	0	17	0	311
5666+00	50.00	107	16	182	0	29	0	510	0	47	0	463
5666+50	50.00	130	10	219	0	24	0	729	0	70	0	659
5667+00	50.00	154	7	262	0	16	0	991	0	86	0	906
5667+50	50.00	164	12	294	0	17	0	1,285	0	103	0	1,182
5668+00	50.00	147	12	288	0	22	0	1,573	0	125	0	1,447
5668+50	50.00	137	13	263	0	24	0	1,836	0	149	0	1,687
5669+00	50.00	147	24	263	0	34	0	2,099	0	183	0	1,916
5669+50	50.00	174	30	297	0	50	0	2,396	0	233	0	2,164
5670+00	50.00	204	12	349	0	39	0	2,746	0	272	0	2,474
5670+50	50.00	246	14	417	0	24	0	3,162	0	296	0	2,866
5671+00	50.00	313	20	517	0	31	0	3,680	0	327	0	3,353
5671+50	50.00	361	19	624	0	36	0	4,304	0	363	0	3,941
5672+00	50.00	396	22	701	0	38	0	5,005	0	401	0	4,604
5672+50	50.00	427	16	761	0	35	0	5,766	0	436	0	5,331
5673+00	50.00	428	13	791	0	27	0	6,557	0	462	0	6,095
5673+50	50.00	427	15	791	0	26	0	7,348	0	488	0	6,860
5674+00	50.00	392	9	758	0	22	0	8,106	0	510	0	7,596
5674+50	50.00	341	7	678	0	15	0	8,784	0	525	0	8,259
5675+00	50.00	294	11	588	0	17	0	9,373	0	542	0	8,831
5675+50	50.00	272	20	524	0	29	0	9,897	0	570	0	9,327
5676+00	50.00	233	40	468	0	56	0	10,365	0	626	0	9,739
5676+50	50.00	226	25	425	0	60	0	10,790	0	686	0	10,103
5677+00	50.00	225	16	417	0	38	0	11,207	0	725	0	10,483
5677+50	50.00	225	18	417	0	32	0	11,624	0	756	0	10,868
5678+00	50.00	288	14	475	0	30	0	12,099	0	786	0	11,313
5678+50	50.00	311	13	554	0	25	0	12,653	0	812	0	11,842
5679+00	50.00	258	12	527	0	23	0	13,180	0	835	0	12,345
5679+50	50.00	259	12	478	0	22	0	13,658	0	857	0	12,801
5680+00	50.00	276	18	495	0	28	0	14,153	0	884	0	13,269
5680+50	50.00	258	23	494	0	38	0	14,647	0	922	0	13,725
5681+00	50.00	203	86	427	0	101	0	15,074	0	1,023	0	14,052
5681+50	50.00	183	127	357	0	197	0	15,432	0	1,219	0	14,212
5682+00	50.00	187	127	342	0	235	0	15,774	0	1,454	0	14,320
5682+50	50.00	195	124	354	0	233	0	16,128	0	1,687	0	14,441
5683+00	50.00	202	110	368	0	217	0	16,496	0	1,903	0	14,592
5683+50	50.00	176	112	350	0	206	0	16,845	0	2,109	0	14,737
5684+00	50.00	165	95	315	0	192	0	17,161	0	2,301	0	14,860
5684+50	50.00	199	64	337	0	148	0	17,498	0	2,449	0	15,049
5685+00	50.00	258	59	424	0	114	0	17,922	0	2,563	0	15,359
5685+50	50.00	302	55	518	0	106	0	18,440	0	2,668	0	15,772
5686+00	50.00	258	61	518	0	107	0	18,958	0	2,775	0	16,183
5686+50	50.00	296	42	513	0	95	0	19,472	0	2,870	0	16,602
5687+00	50.00	318	48	569	0	83	0	20,041	0	2,953	0	17,087
5687+50	50.00	354	27	623	0	70	0	20,663	0	3,024	0	17,640
5688+00	50.00	392	19	691	0	43	0	21,355	0	3,066	0	18,288

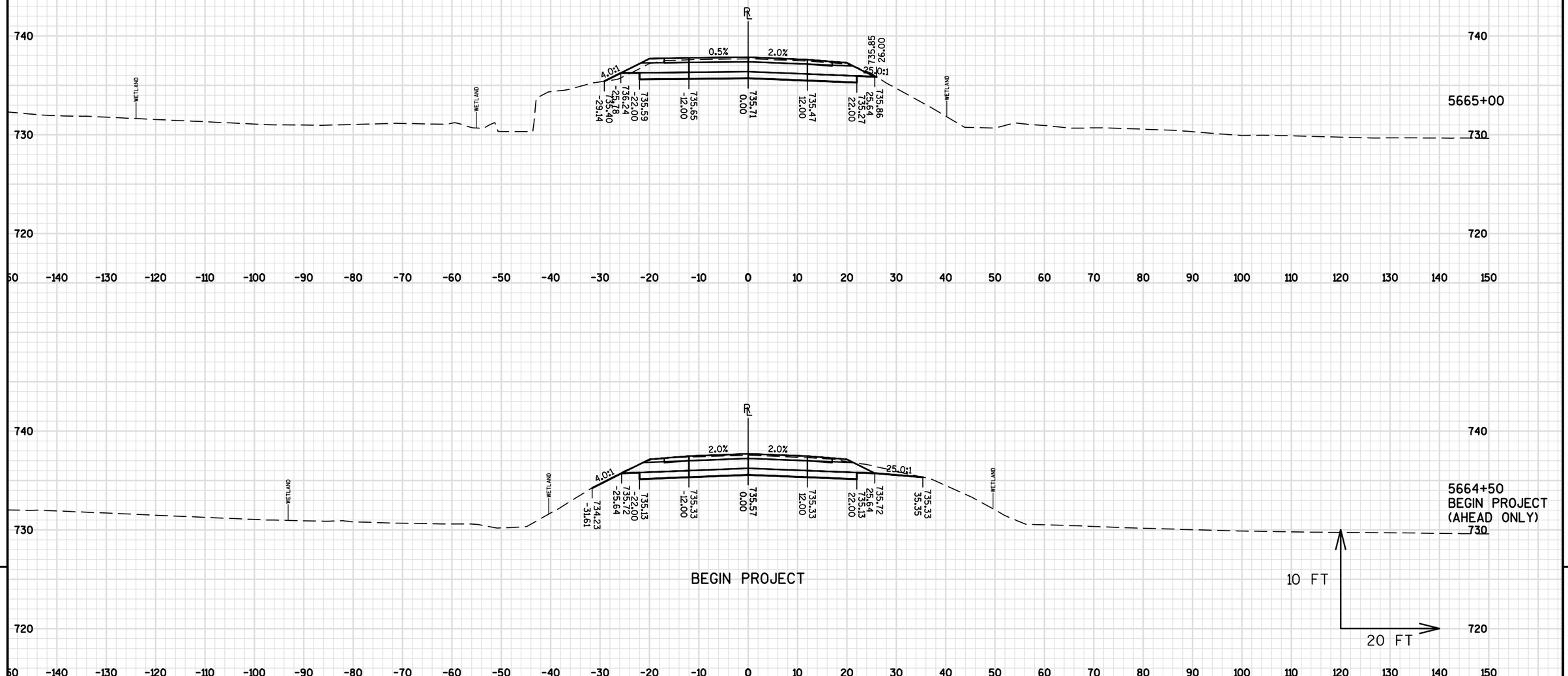
(CONTINUED FROM PREVIOUS SHEET)

		EAST FRONTAGE ROAD										
		AREA (SF)		Incremental Vol (CY) (Unadjusted)				Cumulative Vol (CY) (Unadjusted)				Unadjusted
		Cut	Fill	Cut	Salvaged/Unusable	Fill	Existing Pavement	Cut	Salvaged/Unusable	Fill	Existing Pavement	Mass
STATION	Distance				Pavement Material		EBS	1.00	Pavement Material	1.00	EBS	Ordinate
5688+50	50.00	400	17	734	0	33	0	22,089	0	3,100	0	18,989
5689+00	50.00	402	14	743	0	28	0	22,832	0	3,128	0	19,704
5689+50	50.00	411	10	753	0	22	0	23,585	0	3,150	0	20,435
5689+75	25.00	377	10	365	0	10	0	23,950	0	3,160	0	20,790
5690+00	25.00	350	17	337	0	13	0	24,286	0	3,172	0	21,114
5690+50	50.00	343	10	642	0	25	0	24,928	0	3,197	0	21,731
5691+00	50.00	254	90	553	0	92	0	25,482	0	3,290	0	22,192
5691+25	25.00	236	105	227	0	90	0	25,709	0	3,379	0	22,329
5691+50	25.00	238	98	220	0	94	0	25,929	0	3,473	0	22,455
5691+75	25.00	247	73	225	0	79	0	26,153	0	3,553	0	22,600
5692+00	25.00	198	30	206	0	48	0	26,359	0	3,601	0	22,759
5692+50	50.00	156	10	328	0	37	0	26,688	0	3,638	0	23,050
5693+00	50.00	143	13	277	0	21	0	26,965	0	3,659	0	23,306
5693+25	25.00	177	62	148	0	35	0	27,113	0	3,694	0	23,419
5693+50	25.00	168	30	160	0	42	0	27,272	0	3,736	0	23,536
5693+75	25.00	168	15	156	0	21	0	27,428	0	3,757	0	23,671
5694+00	25.00	161	14	153	0	13	0	27,581	0	3,770	0	23,811
5694+25	25.00	152	8	145	0	10	0	27,726	0	3,780	0	23,946
5694+50	25.00	152	2	141	0	5	0	27,867	0	3,784	0	24,082
5695+00	50.00	167	0	296	0	2	0	28,162	0	3,787	0	24,376
5695+50	50.00	140	3	285	0	3	0	28,447	0	3,790	0	24,657
5696+00	50.00	113	2	234	0	4	0	28,682	0	3,794	0	24,888
5696+50	50.00	145	2	239	0	3	0	28,921	0	3,797	0	25,124
5697+00	50.00	213	4	332	0	5	0	29,252	0	3,802	0	25,450
5697+50	50.00	232	5	412	0	8	0	29,664	0	3,811	0	25,854
5698+00	50.00	234	5	431	0	9	0	30,096	0	3,819	0	26,276
5698+50	50.00	235	3	434	0	7	0	30,530	0	3,827	0	26,703
5699+00	50.00	232	2	432	0	4	0	30,962	0	3,831	0	27,131
5699+50	50.00	213	1	412	0	2	0	31,373	0	3,833	0	27,540
5700+00	50.00	199	1	382	0	2	0	31,755	0	3,834	0	27,921
5700+50	50.00	197	1	367	0	2	0	32,122	0	3,836	0	28,286
5701+00	50.00	169	2	339	0	3	0	32,460	0	3,839	0	28,621
5701+50	50.00	142	4	288	0	6	0	32,749	0	3,845	0	28,903
5702+00	50.00	120	6	243	0	10	0	32,992	0	3,855	0	29,137
5702+50	50.00	90	8	194	0	13	0	33,186	0	3,868	0	29,318
5703+00	50.00	77	15	154	0	21	0	33,340	0	3,889	0	29,451
5703+50	50.00	86	18	151	0	30	0	33,491	0	3,919	0	29,572
5704+00	50.00	117	17	189	0	32	0	33,680	0	3,951	0	29,729
5704+50	50.00	138	14	236	0	29	0	33,916	0	3,981	0	29,936
5705+00	50.00	164	10	279	0	23	0	34,195	0	4,003	0	30,192
5705+50	50.00	183	7	321	0	16	0	34,516	0	4,019	0	30,497
5706+00	50.00	193	5	348	0	11	0	34,865	0	4,030	0	30,834
5706+50	50.00	204	6	368	0	11	0	35,233	0	4,041	0	31,191
5707+00	50.00	211	7	384	0	12	0	35,617	0	4,053	0	31,563
5707+50	50.00	220	3	399	0	10	0	36,015	0	4,063	0	31,952
5708+00	50.00	220	3	407	0	6	0	36,422	0	4,069	0	32,353
5708+50	50.00	241	2	426	0	5	0	36,849	0	4,074	0	32,775
5709+00	50.00	247	1	451	0	3	0	37,300	0	4,077	0	33,224

(CONTINUED FROM PREVIOUS SHEET)

		EAST FRONTAGE ROAD										
		AREA (SF)		Incremental Vol (CY) (Unadjusted)				Cumulative Vol (CY) (Unadjusted)				Unadjusted
		Cut	Fill	Cut	Salvaged/Unusable	Fill	Existing Pavement	Cut	Salvaged/Unusable	Fill	Existing Pavement	Mass
STATION	Distance				Pavement Material		EBS	1.00	Pavement Material	1.00	EBS	Ordinate
5709+50	50.00	218	6	431	0	7	0	37,731	0	4,083	0	33,648
5710+00	50.00	174	6	363	0	11	0	38,094	0	4,095	0	34,000
5710+30	30.00	157	8	184	0	8	0	38,278	0	4,102	0	34,176
5710+50	20.00	168	12	120	0	7	0	38,398	0	4,109	0	34,289
5710+75	25.00	124	22	135	0	16	0	38,534	0	4,125	0	34,408
5711+00	25.00	217	0	158	0	10	0	38,692	0	4,136	0	34,556
3711+25	26.87	301	1	258	0	0	0	38,949	0	4,136	0	34,814
3711+50	25.00	154	16	211	0	7	0	39,160	0	4,143	0	35,017
3711+75	25.00	201	6	165	0	10	0	39,325	0	4,153	0	35,172
3712+00	25.00	161	6	168	0	5	0	39,492	0	4,158	0	35,334
3712+50	50.00	164	11	300	0	16	0	39,793	0	4,174	0	35,619
3713+00	50.00	165	20	304	0	29	0	40,097	0	4,203	0	35,893
3713+50	50.00	179	24	318	0	41	0	40,415	0	4,244	0	36,170
3714+00	50.00	212	27	362	0	47	0	40,777	0	4,292	0	36,485
3714+50	50.00	185	34	368	0	57	0	41,144	0	4,348	0	36,796
3715+00	50.00	137	48	298	0	76	0	41,442	0	4,425	0	37,018
3715+50	50.00	86	57	206	0	98	0	41,649	0	4,522	0	37,126
3716+00	50.00	56	72	132	0	120	0	41,780	0	4,642	0	37,138
3716+50	50.00	53	70	101	0	131	0	41,881	0	4,773	0	37,108
3717+00	50.00	56	65	101	0	125	0	41,982	0	4,898	0	37,084
3717+50	50.00	48	74	96	0	128	0	42,078	0	5,026	0	37,052
3718+00	50.00	37	80	78	0	142	0	42,157	0	5,169	0	36,988
3718+50	50.00	33	81	65	0	149	0	42,221	0	5,317	0	36,904
3719+00	50.00	27	73	56	0	143	0	42,278	0	5,460	0	36,818
3719+50	50.00	27	78	50	0	141	0	42,328	0	5,601	0	36,727
3720+00	50.00	22	92	46	0	158	0	42,373	0	5,759	0	36,615
3720+50	50.00	45	7	62	0	92	0	42,435	0	5,850	0	36,585
3721+00	50.00	41	91	79	0	90	0	42,515	0	5,940	0	36,574
3721+50	50.00	45	81	80	0	159	0	42,594	0	6,099	0	36,495
3722+00	50.00	58	71	95	0	140	0	42,690	0	6,239	0	36,450
3722+50	50.00	81	64	129	0	125	0	42,819	0	6,364	0	36,455
3723+00	50.00	99	52	167	0	107	0	42,985	0	6,470	0	36,515
3723+50	50.00	185	0	262	0	48	0	43,248	0	6,518	0	36,729
3724+00	50.00	141	46	302	0	42	0	43,550	0	6,561	0	36,989
3724+50	50.00	155	40	274	0	80	0	43,824	0	6,640	0	37,183
3725+00	50.00	159	36	290	0	71	0	44,114	0	6,711	0	37,403
3725+50	50.00	153	34	289	0	65	0	44,403	0	6,776	0	37,627
3726+00	50.00	173	30	302	0	60	0	44,705	0	6,836	0	37,869
3726+50	50.00	169	32	316	0	58	0	45,021	0	6,894	0	38,127
3727+00	50.00	154	35	299	0	62	0	45,320	0	6,955	0	38,364
3727+50	50.00	146	32	277	0	62	0	45,597	0	7,017	0	38,580
3728+00	50.00	151	33	275	0	60	0	45,872	0	7,077	0	38,794
3728+50	50.00	172	32	299	0	60	0	46,170	0	7,138	0	39,033
3729+00	50.00	191	32	336	0	60	0	46,506	0	7,197	0	39,309
3729+50	50.00	215	34	376	0	62	0	46,882	0	7,259	0	39,623
3730+00	50.00	219	39	402	0	68	0	47,284	0	7,327	0	39,957
EAST FRONTAGE ROAD TOTAL				**47,284**	**0**	**7,327**	**0**	**47,284**	**0**	**7,327**	**0**	**39,957**

		BRAUN ROAD									
		AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)			
		Cut	Salvaged/Unusable	Fill	Cut	Salvaged/Unusable	Fill	Cut	Salvaged/Unusable	Expanded Fill	Mass
STATION	Distance		Pavement Material			Pavement Material		1.00	Pavement Material	1.20	Ordinate
52+00	0.00	86	0		0	0	0	0	0	0	0
52+20 (BK)	20.00	112	0		73	0	0	73	0	0	73
53+30 (AH)	0.00	260	14		0	0	0	73	0	0	73
53+50	20.00	141	7		148	0	8	222	0	9	212
54+00	50.00	82	2		207	0	8	428	0	18	410
54+50	50.00	59	0		131	0	2	559	0	20	539
BRAUN ROAD TOTAL					**559**	**0**	**17**	**559**	**0**	**20**	**539**

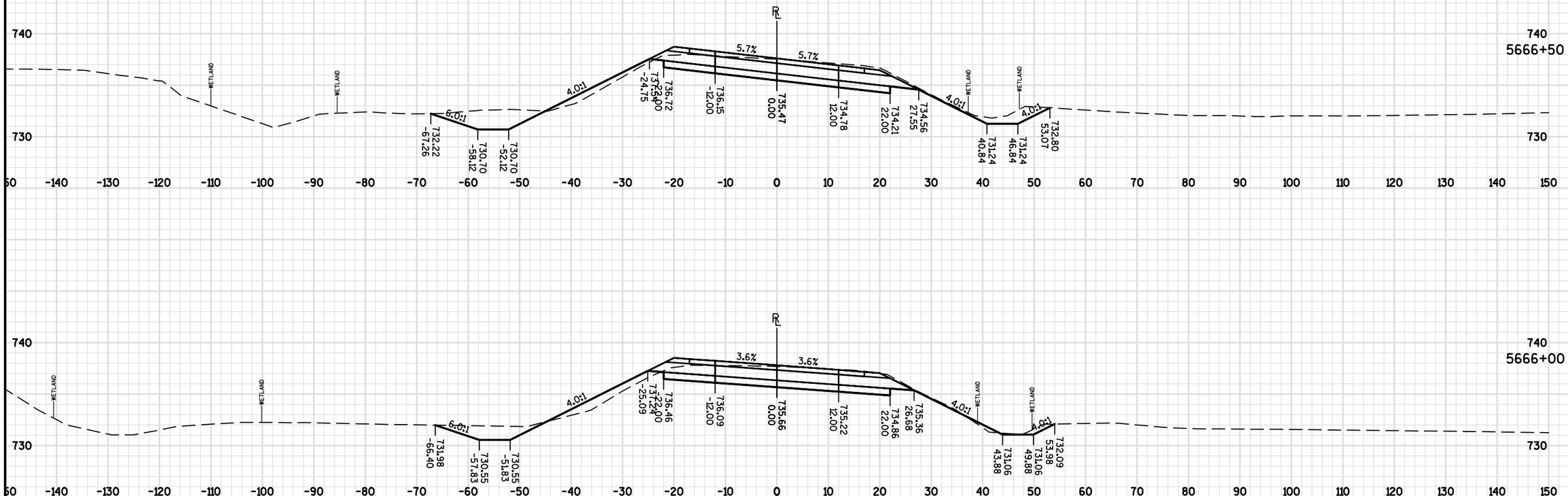


PROJECT NO: 1030-24-77	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 172	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-EFR.DWG
LAYOUT NAME - 01

PLOT DATE : 8/31/2016 2:14 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

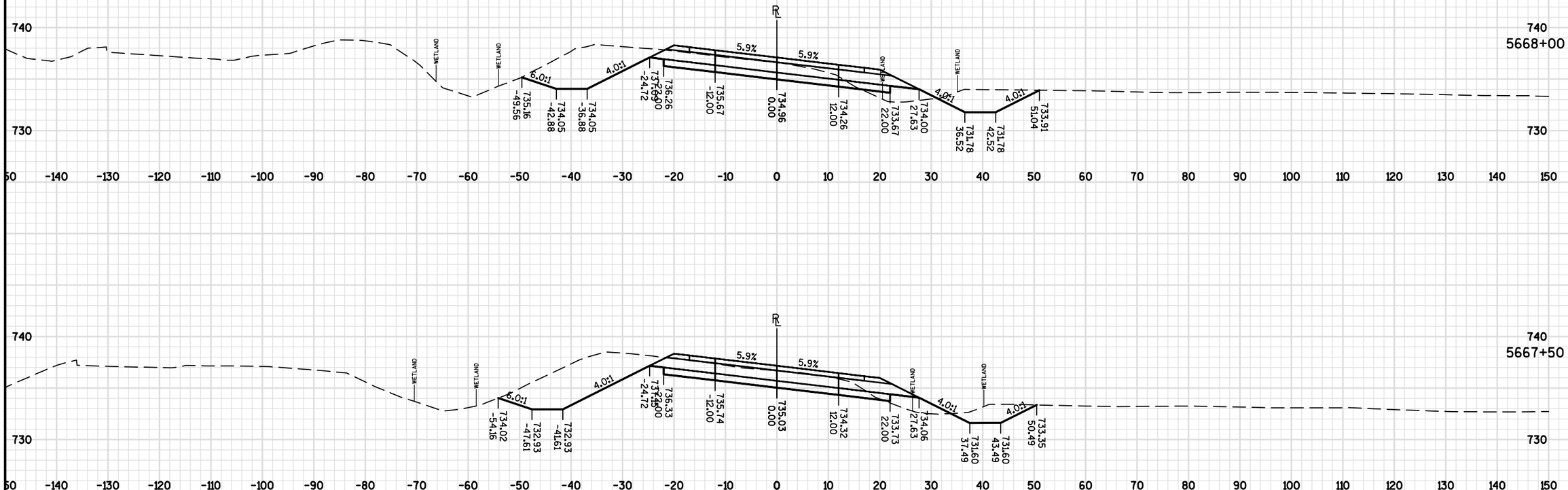


9 9

PROJECT NO: 1030-24-77	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 173	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-EFR.DWG
LAYOUT NAME - 02

PLOT DATE : 8/31/2016 2:14 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT



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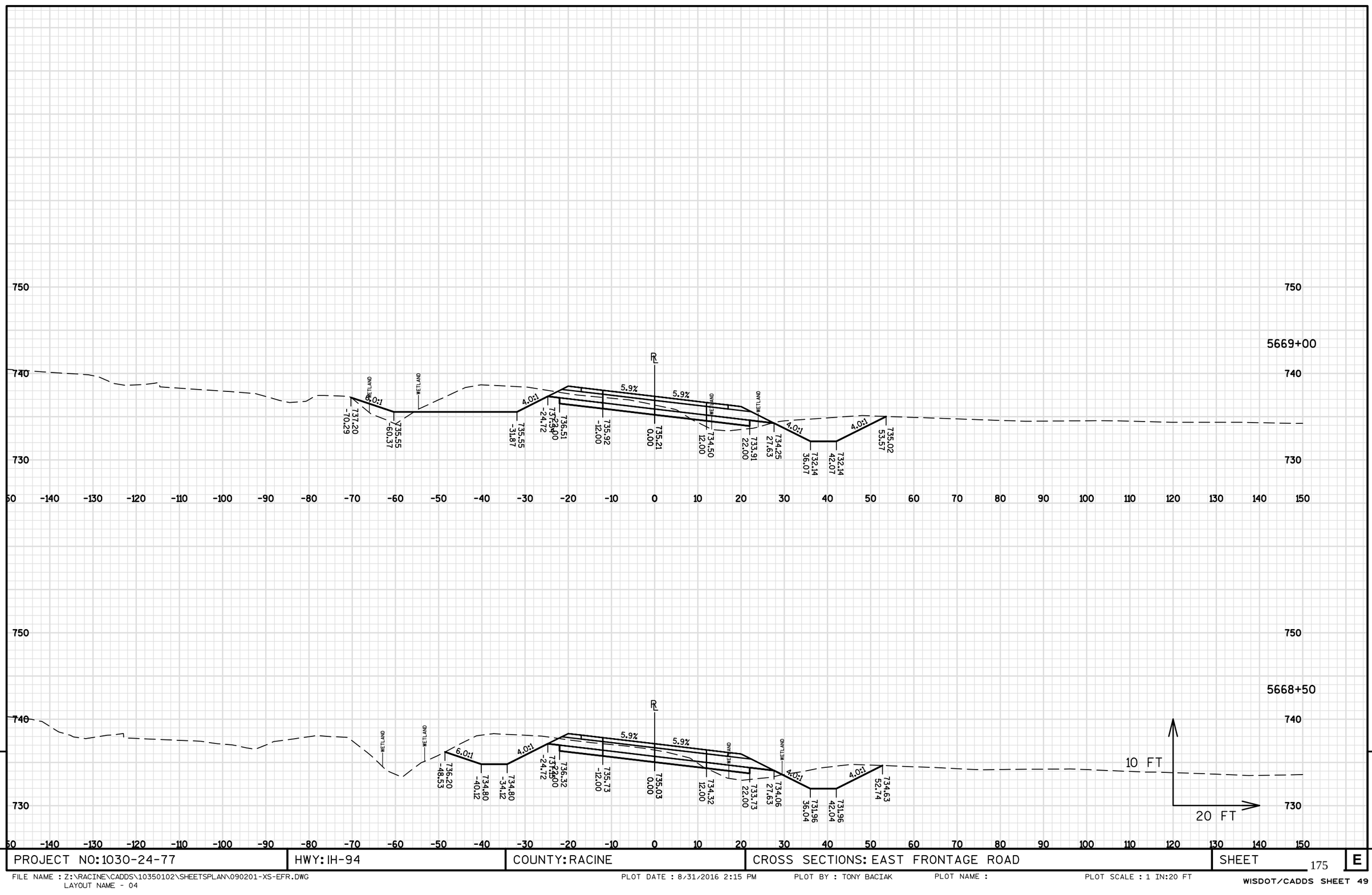
PROJECT NO: 1030-24-77	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 174 E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-EFR.DWG
LAYOUT NAME - 03

PLOT DATE : 8/31/2016 2:15 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT



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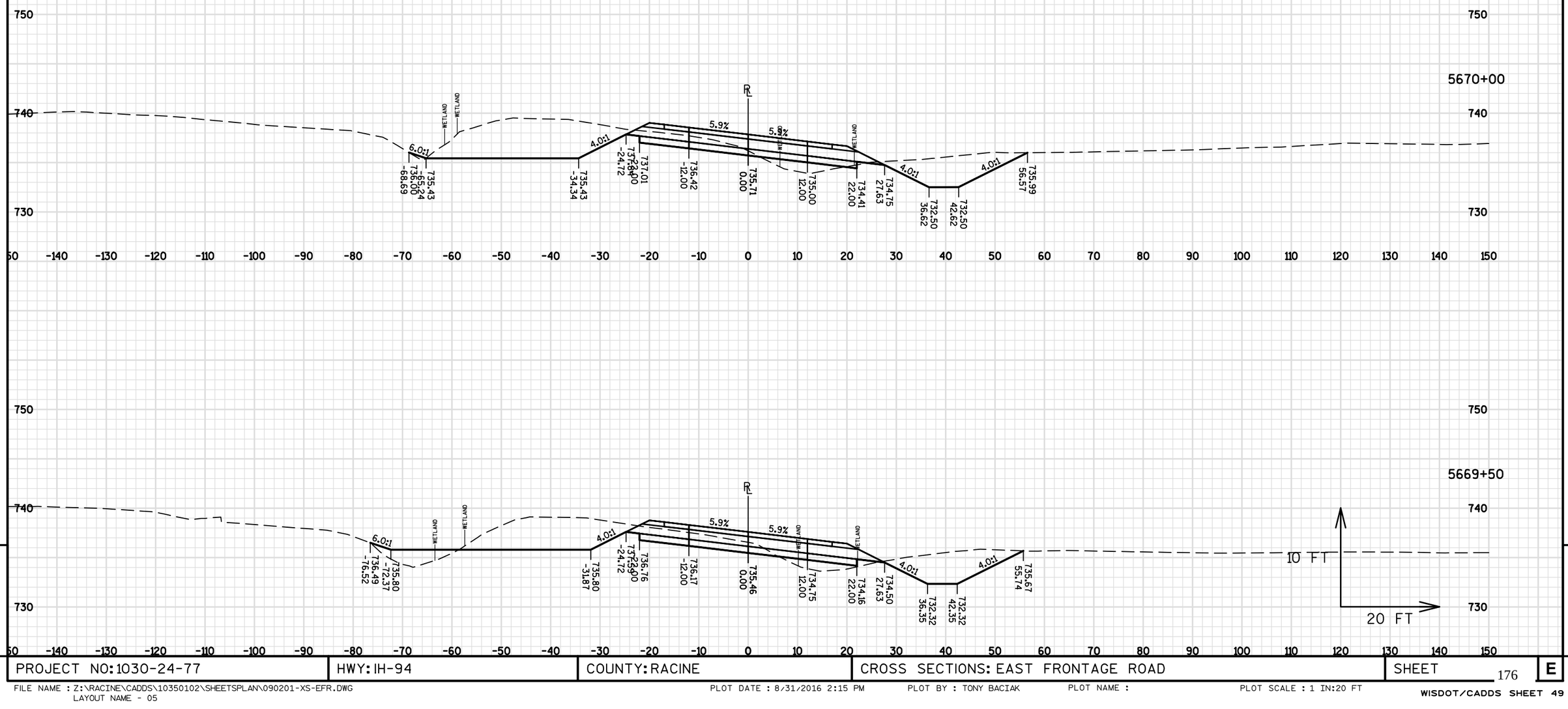
PROJECT NO: 1030-24-77	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-EFR.DWG
LAYOUT NAME - 04

PLOT DATE : 8/31/2016 2:15 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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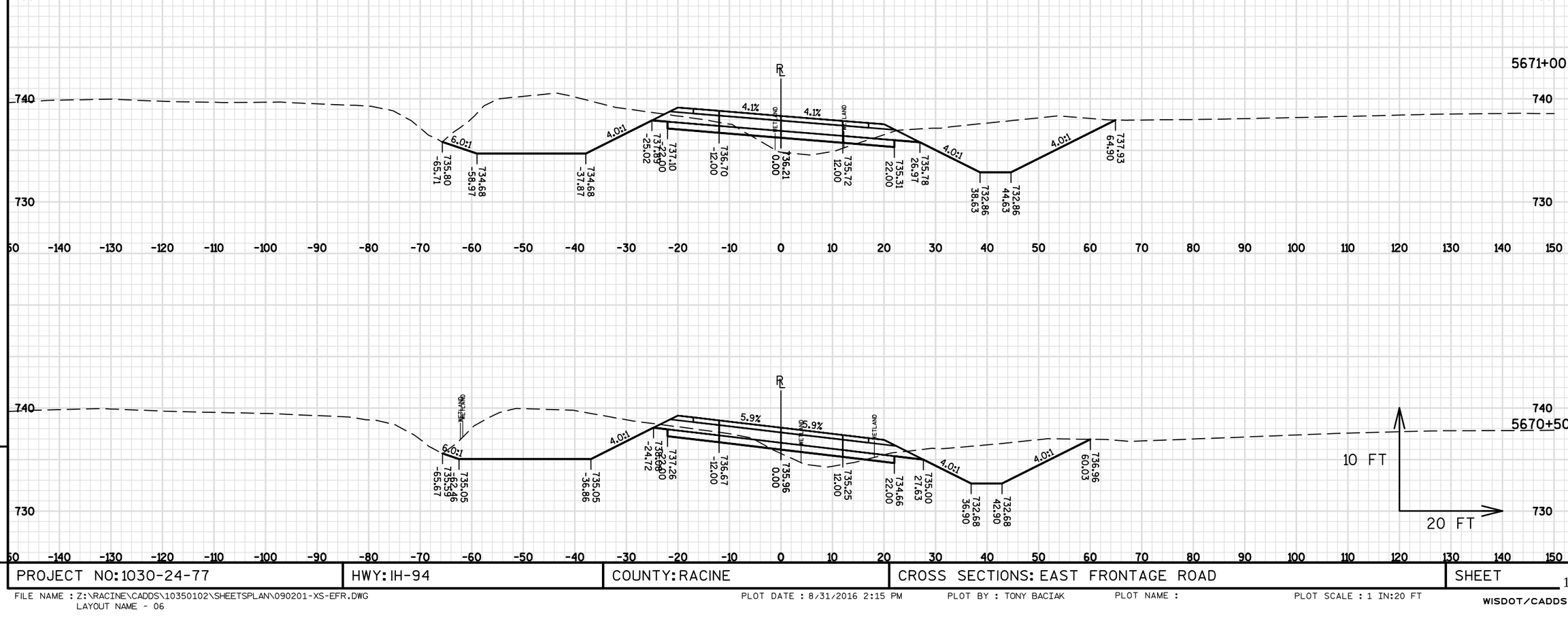
PROJECT NO: 1030-24-77	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-EFR.DWG
LAYOUT NAME - 05

PLOT DATE : 8/31/2016 2:15 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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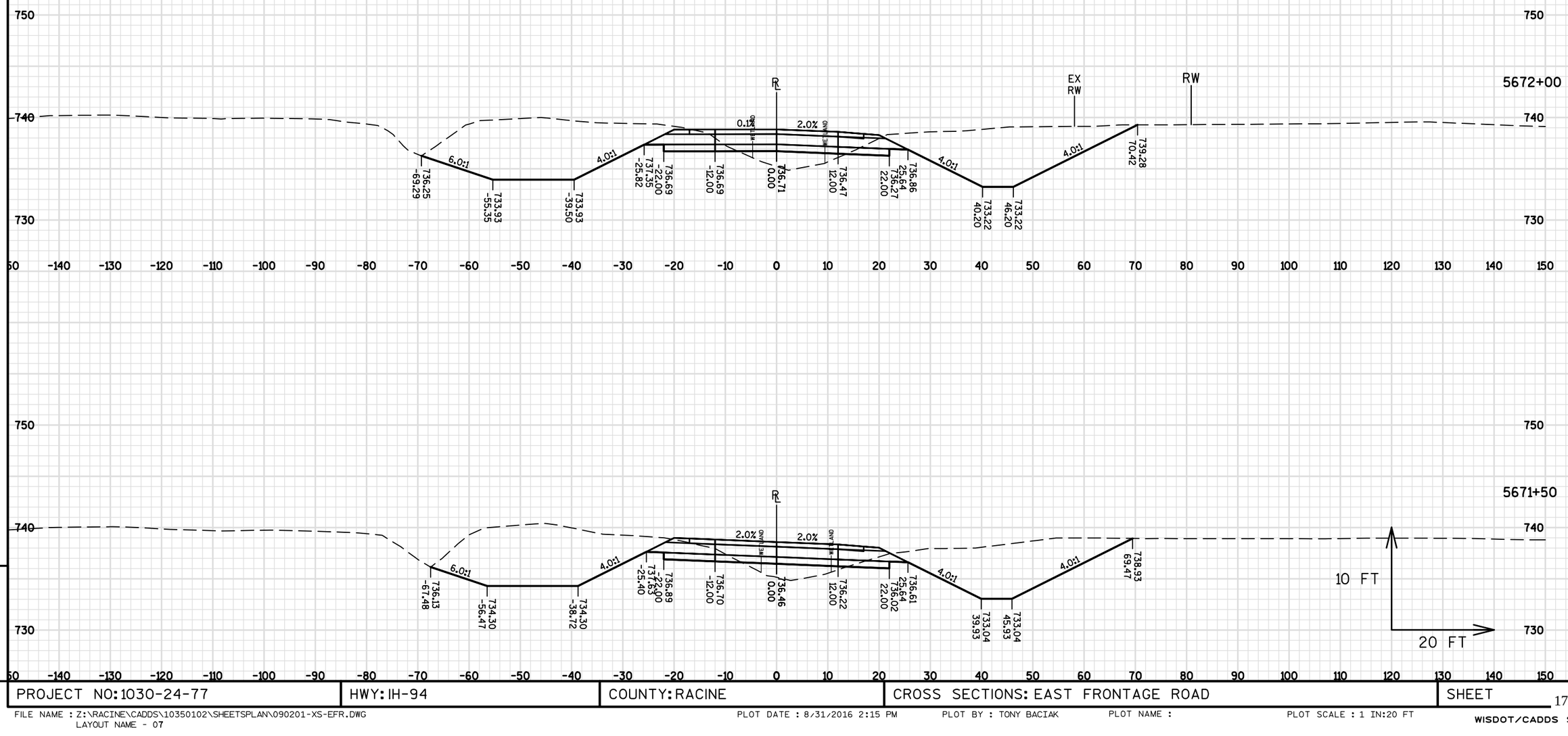
PROJECT NO: 1030-24-77	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 177	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-EFR.DWG
LAYOUT NAME - 06

PLOT DATE : 8/31/2016 2:15 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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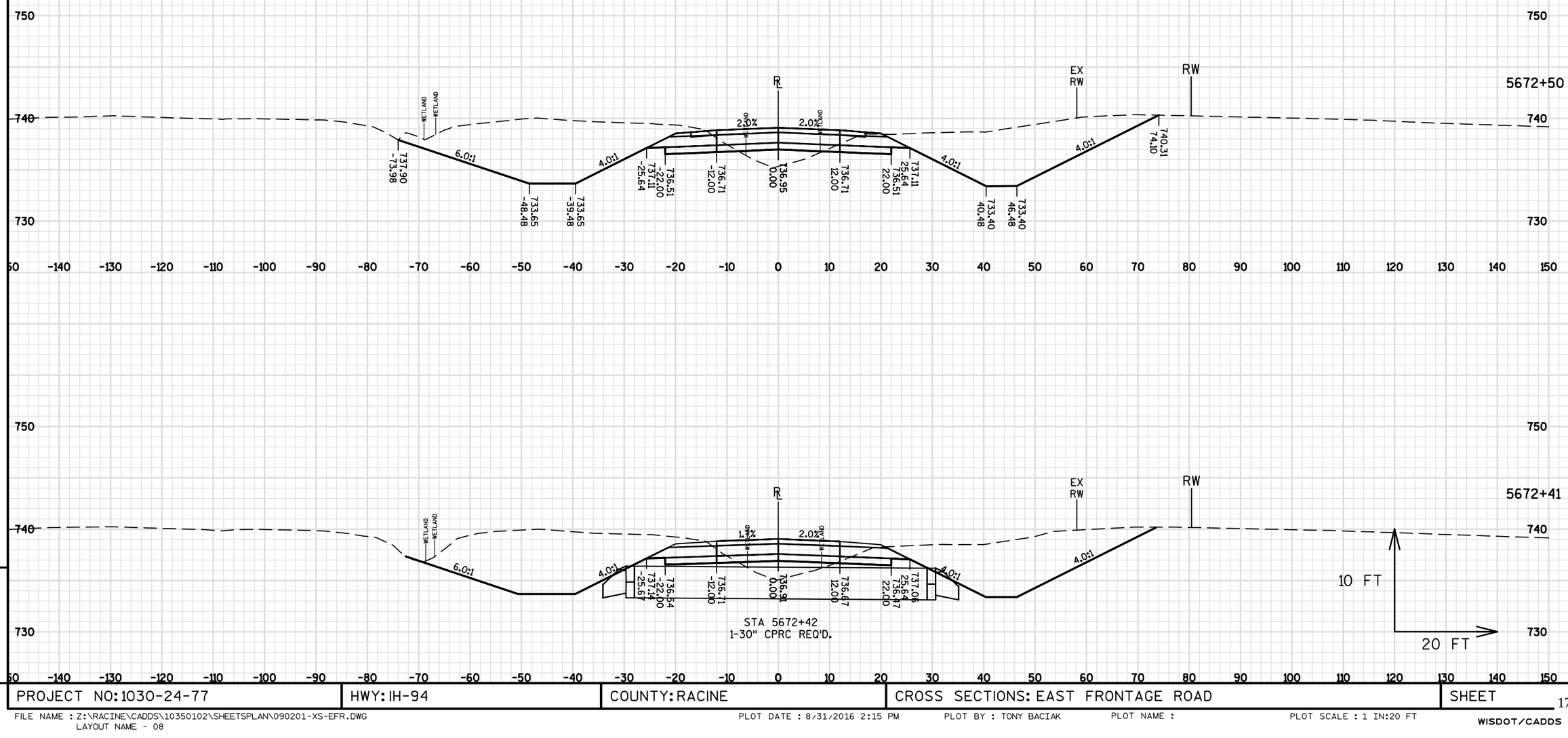
PROJECT NO: 1030-24-77	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-EFR.DWG
LAYOUT NAME - 07

PLOT DATE : 8/31/2016 2:15 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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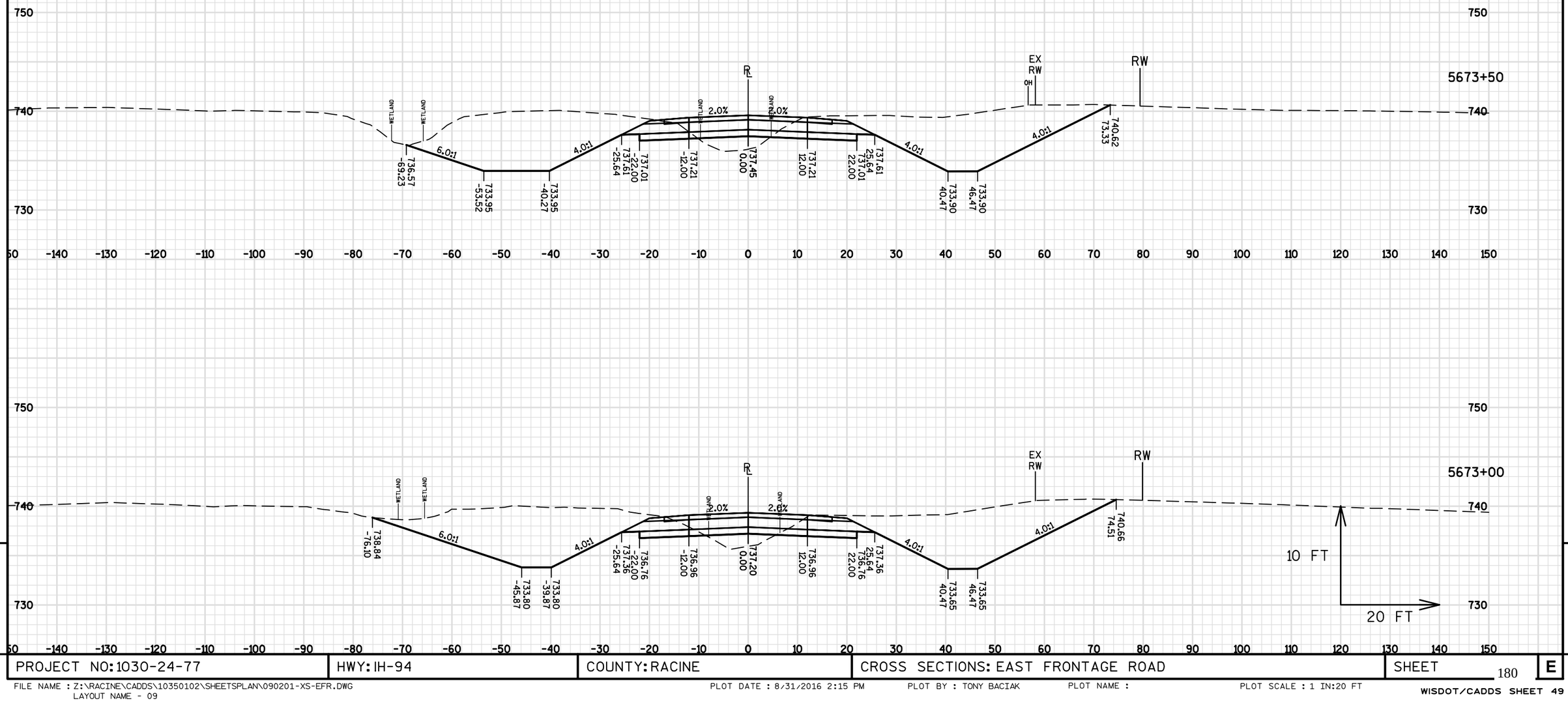
PROJECT NO: 1030-24-77	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-EFR.DWG
LAYOUT NAME - 08

PLOT DATE : 8/31/2016 2:15 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

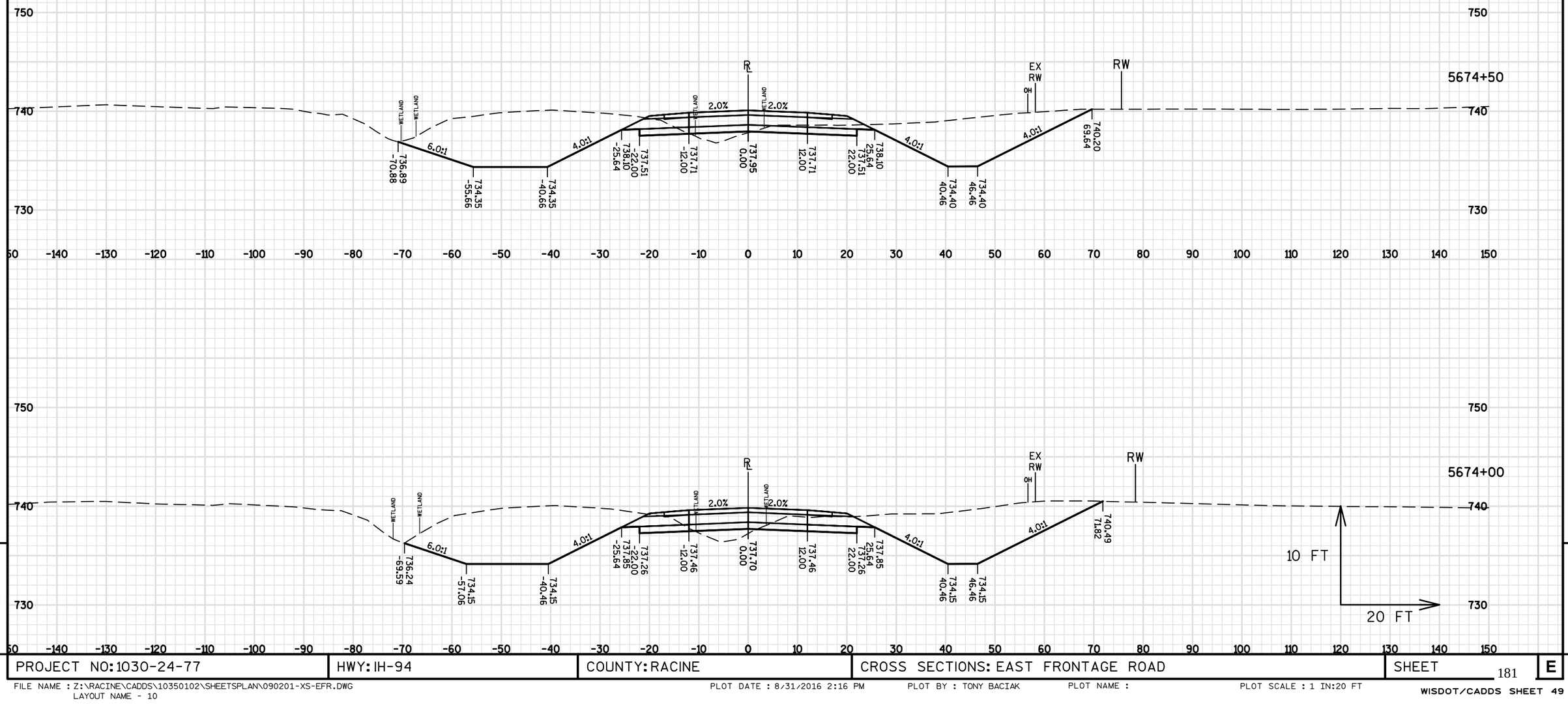


PROJECT NO: 1030-24-77	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-EFR.DWG
LAYOUT NAME - 09

PLOT DATE : 8/31/2016 2:15 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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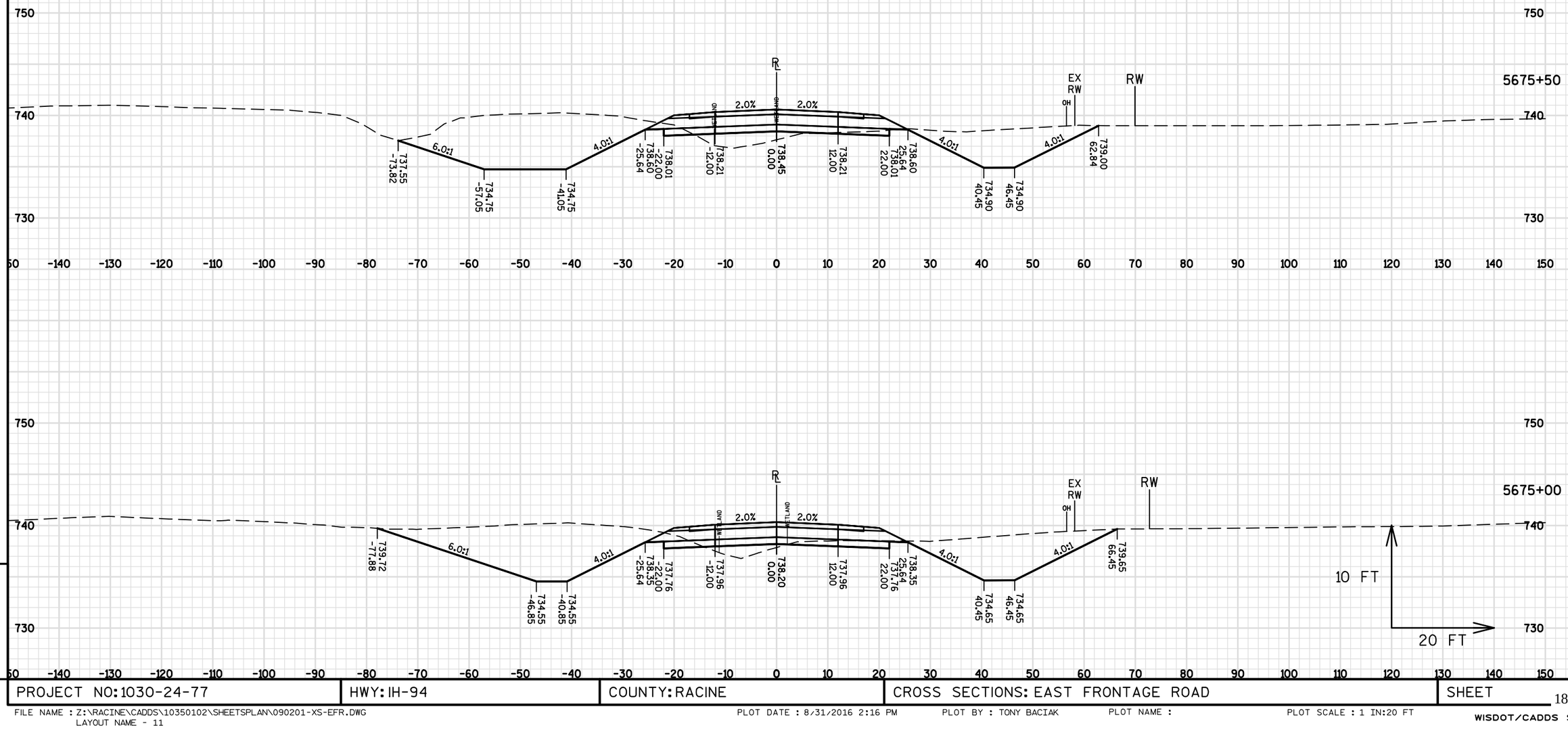
PROJECT NO: 1030-24-77	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-EFR.DWG
LAYOUT NAME - 10

PLOT DATE : 8/31/2016 2:16 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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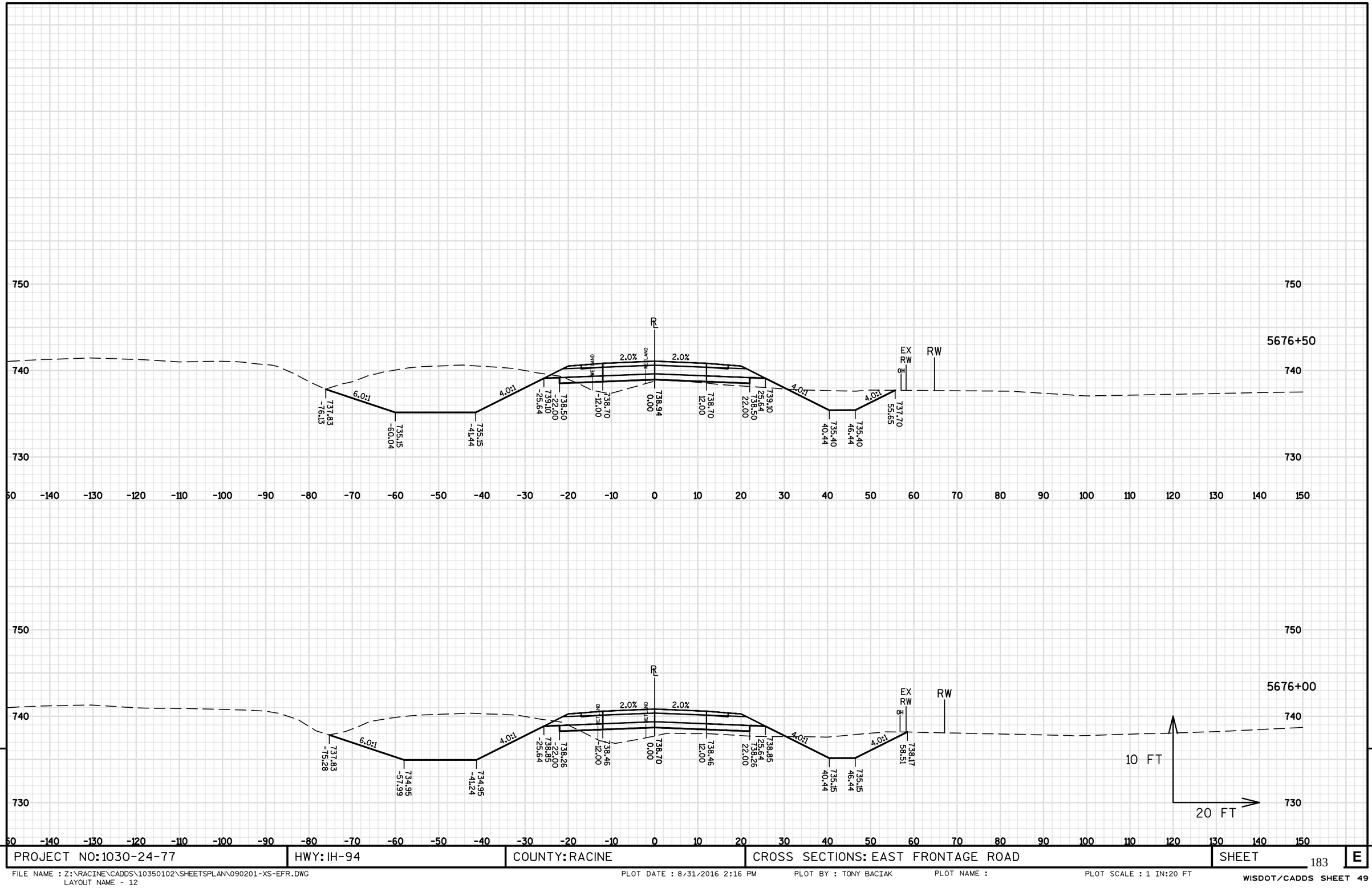
PROJECT NO: 1030-24-77	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-EFR.DWG
LAYOUT NAME - 11

PLOT DATE : 8/31/2016 2:16 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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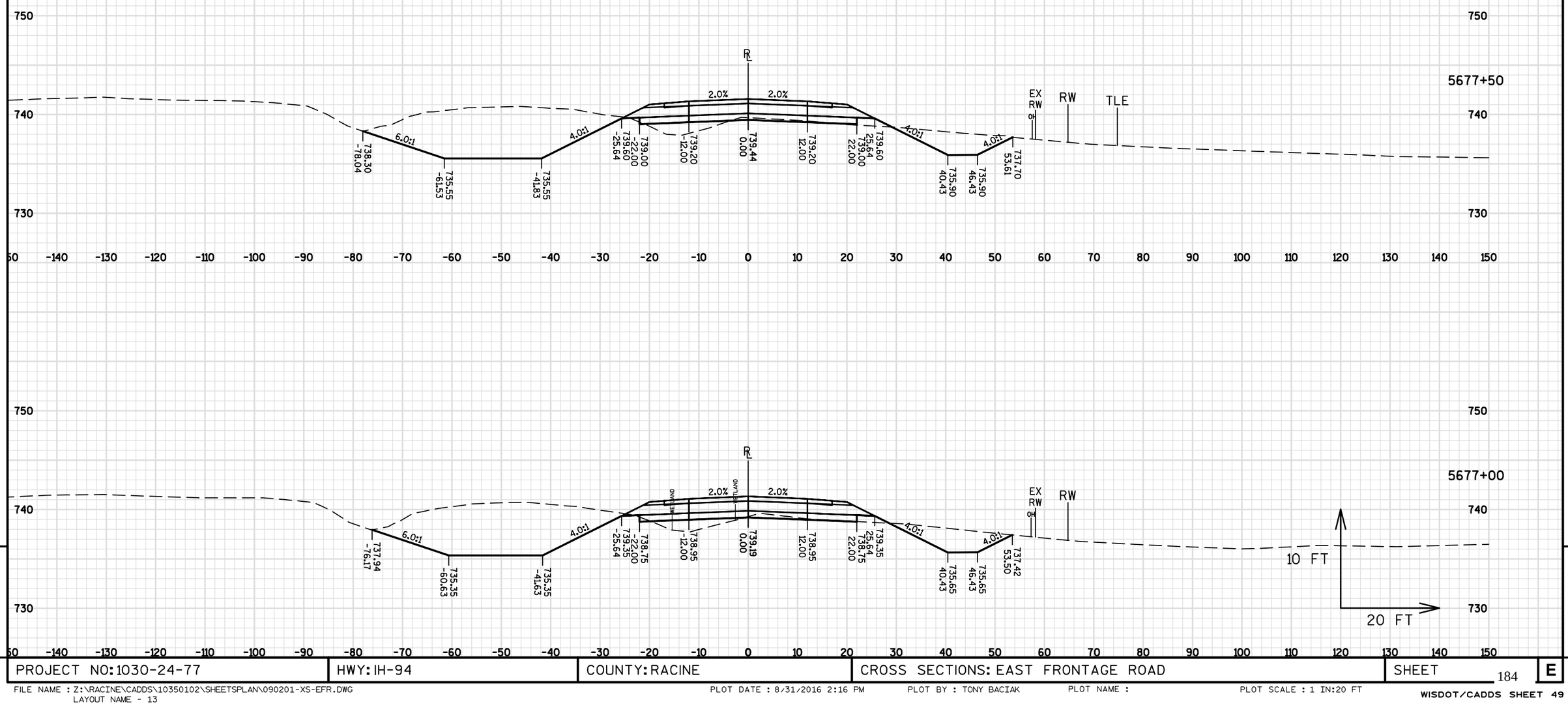
PROJECT NO: 1030-24-77	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-EFR.DWG
LAYOUT NAME - 12

PLOT DATE : 8/31/2016 2:16 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

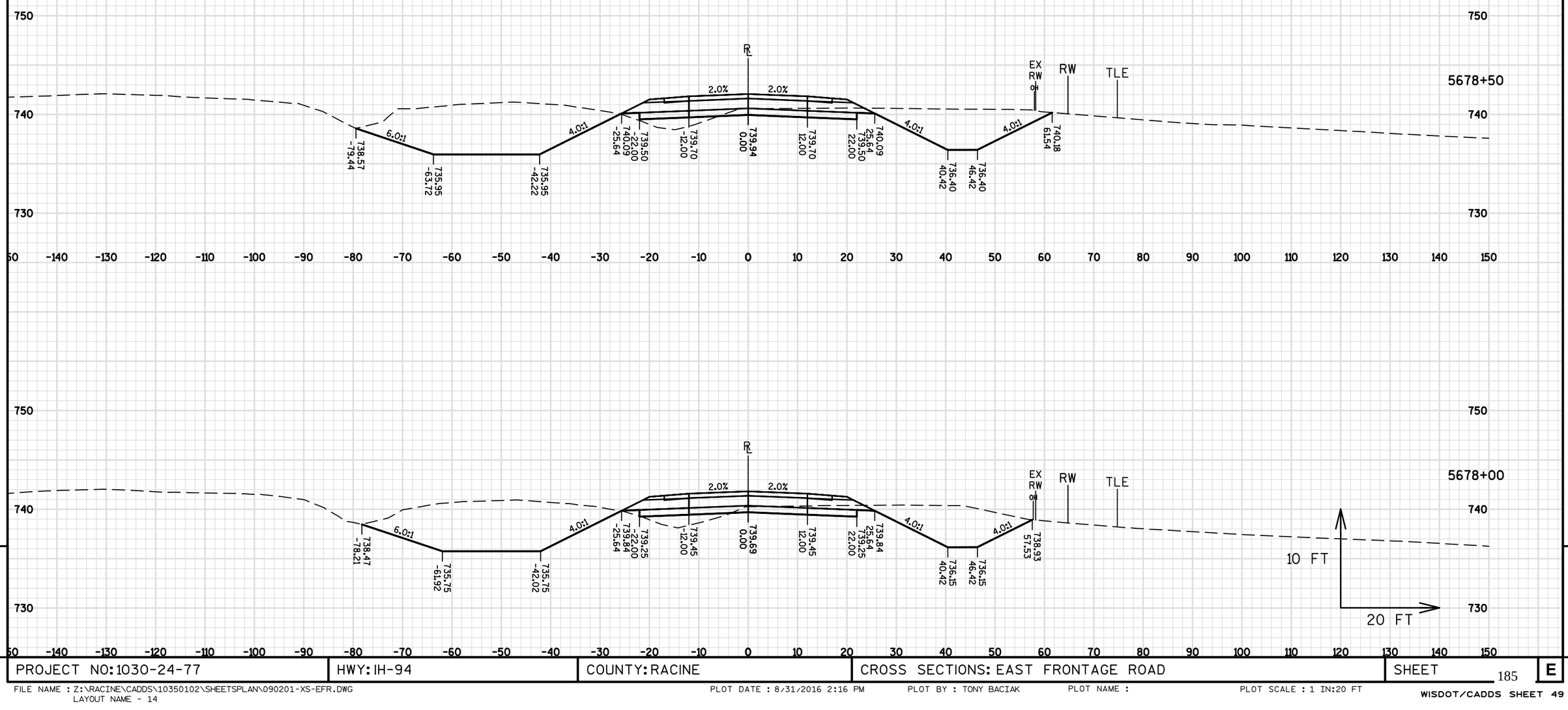


PROJECT NO: 1030-24-77	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 184	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-EFR.DWG
LAYOUT NAME - 13

PLOT DATE : 8/31/2016 2:16 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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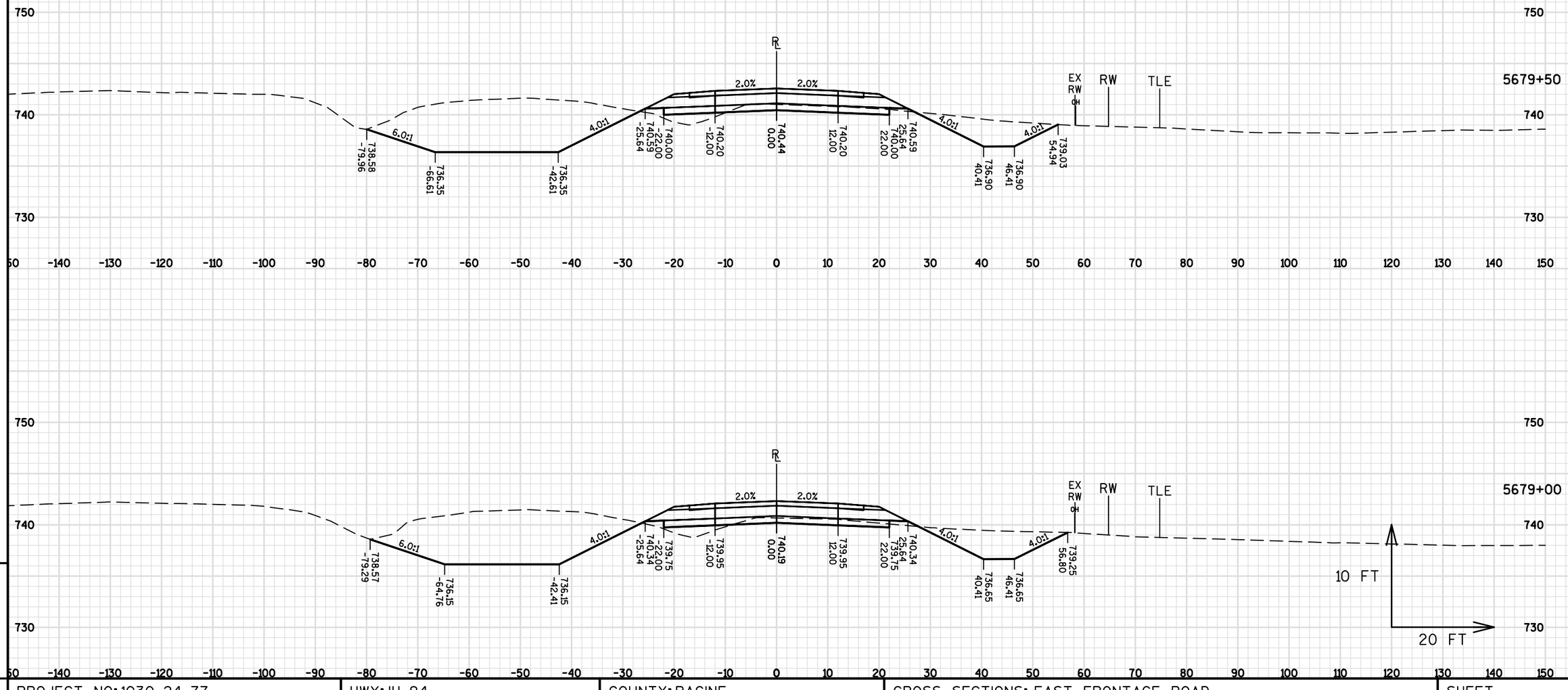
9

PROJECT NO: 1030-24-77	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-EFR.DWG
LAYOUT NAME - 14

PLOT DATE : 8/31/2016 2:16 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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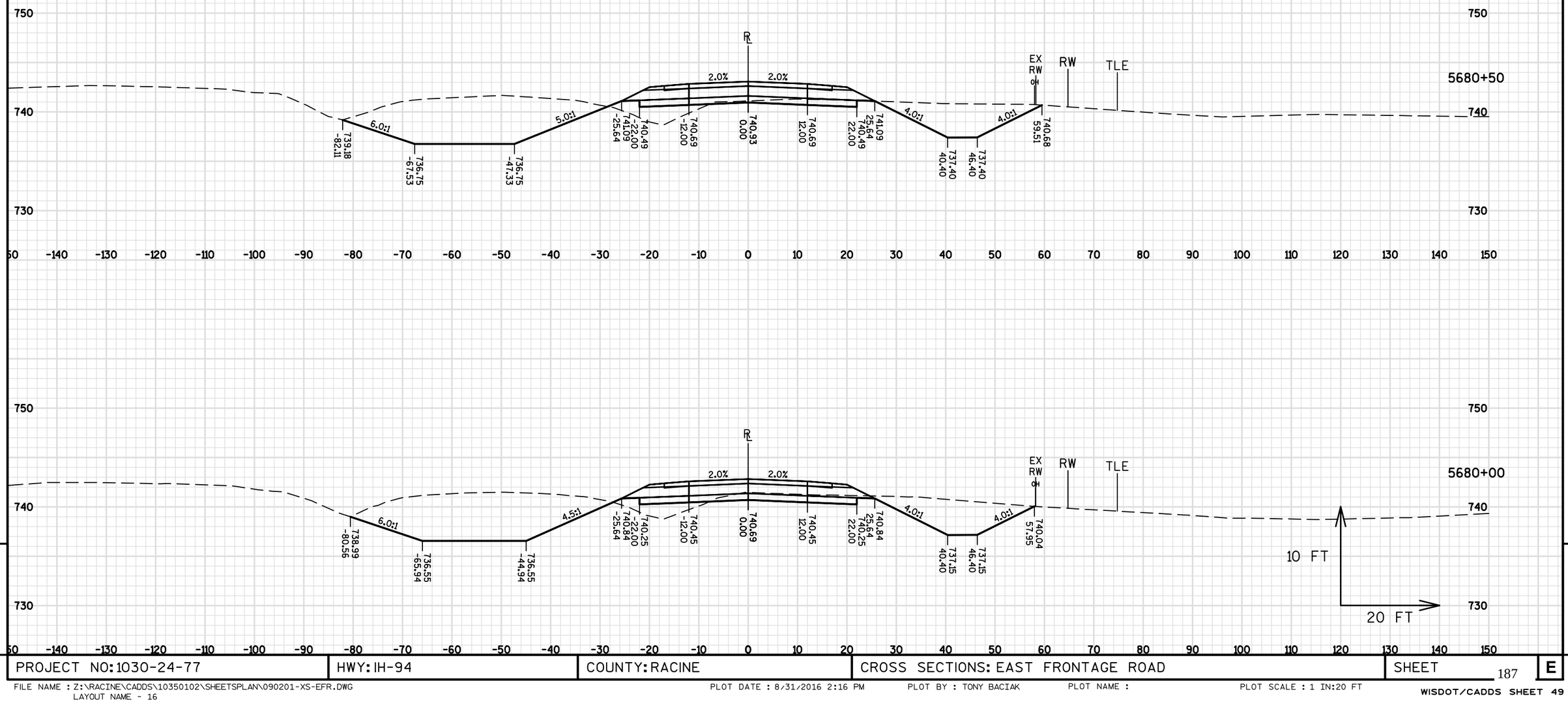
9

PROJECT NO: 1030-24-77	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-EFR.DWG
LAYOUT NAME - 15

PLOT DATE : 8/31/2016 2:16 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

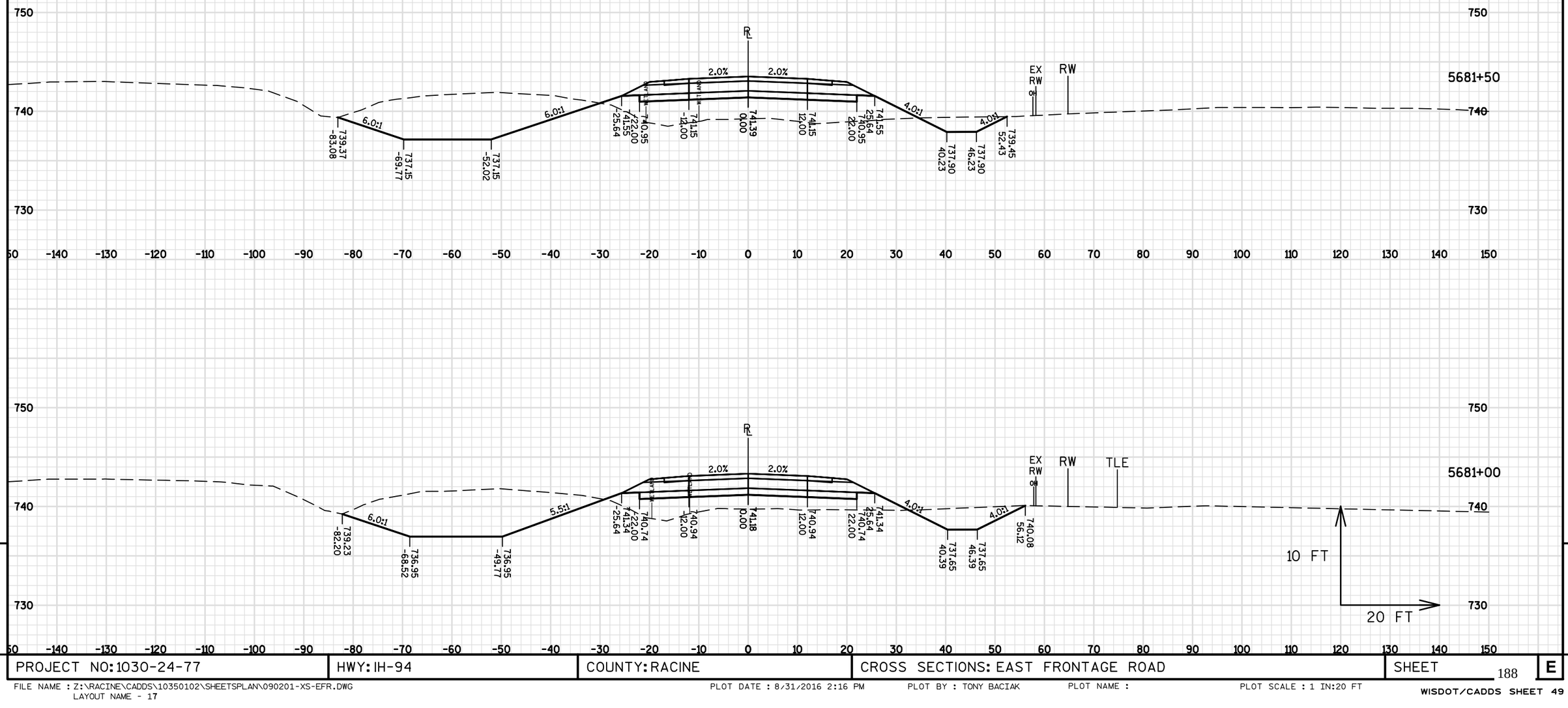


9 9

PROJECT NO: 1030-24-77	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-EFR.DWG
LAYOUT NAME - 16

PLOT DATE : 8/31/2016 2:16 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT



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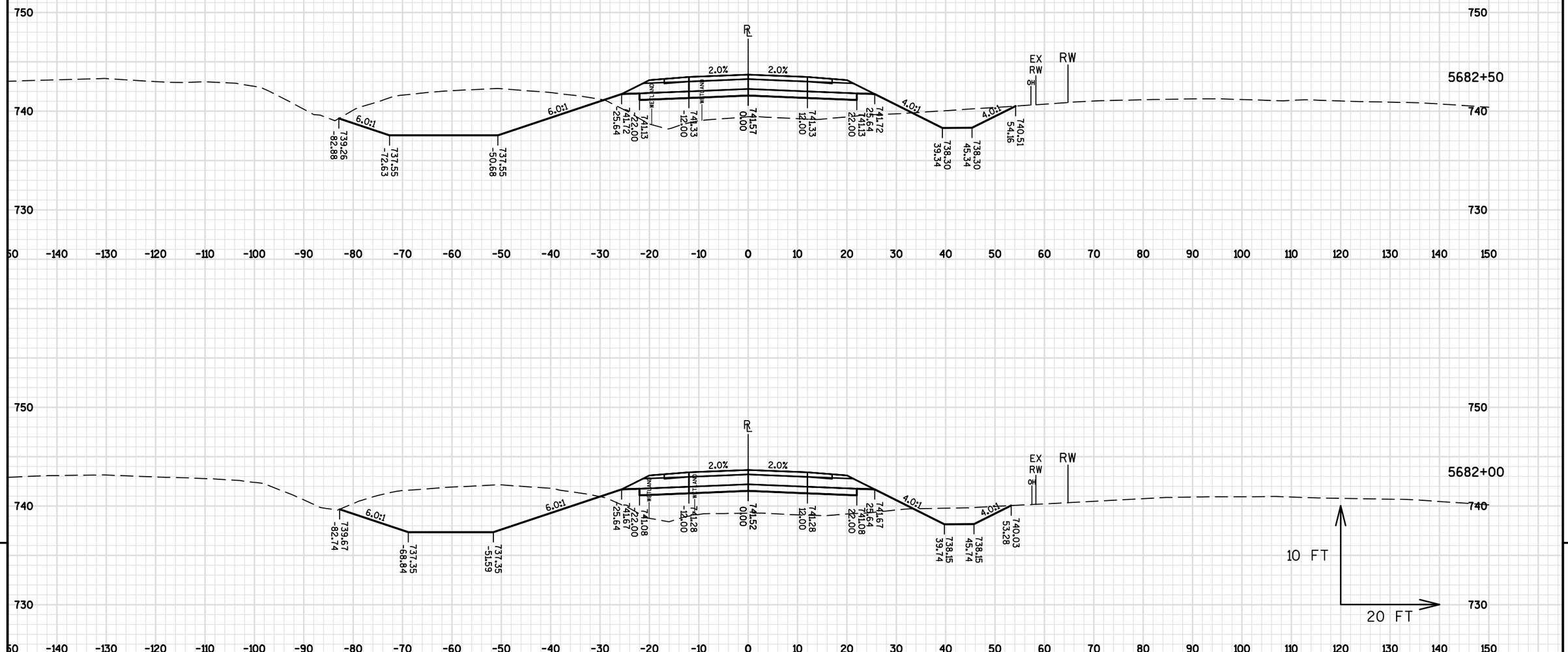
9

PROJECT NO: 1030-24-77	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 188	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-EFR.DWG
LAYOUT NAME - 17

PLOT DATE : 8/31/2016 2:16 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT



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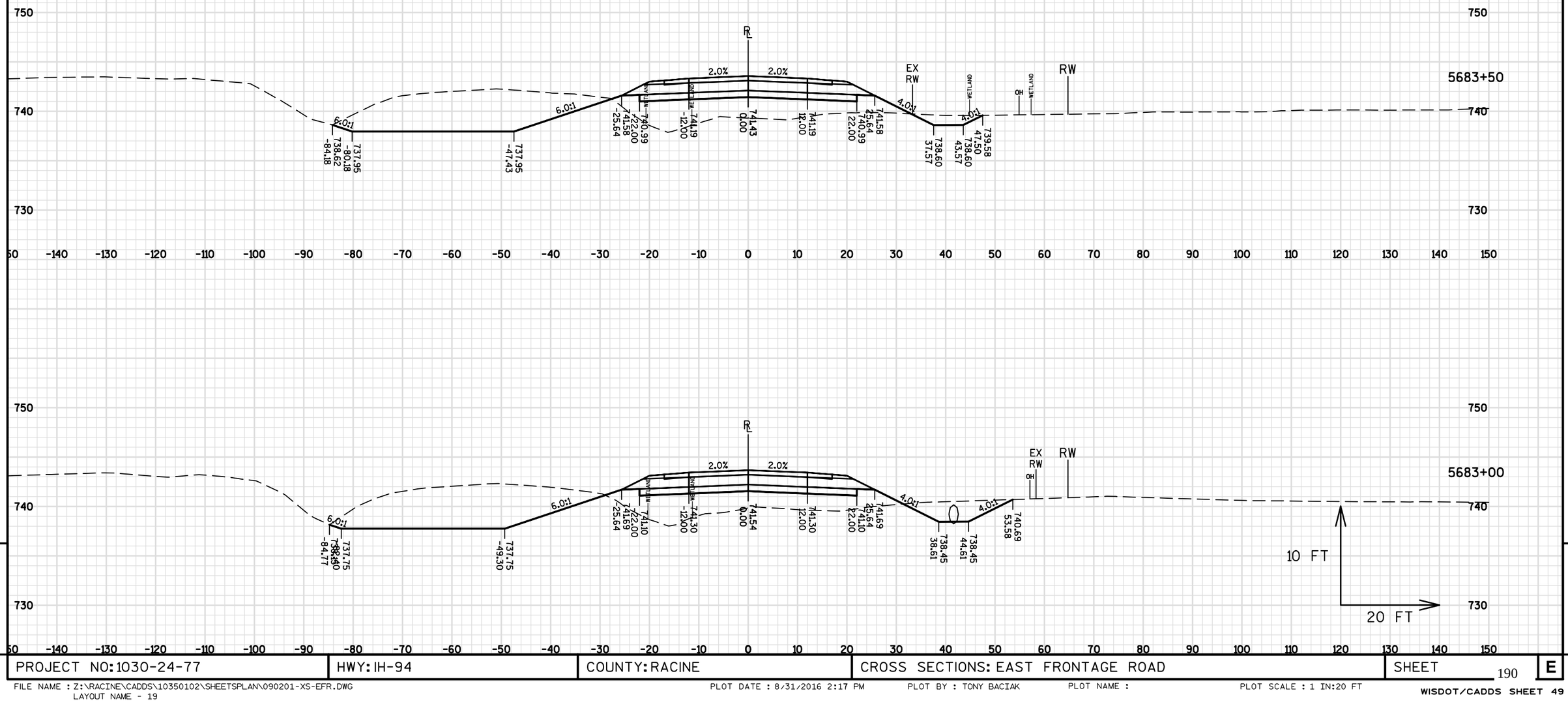
9

PROJECT NO: 1030-24-77	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 189 E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-EFR.DWG
LAYOUT NAME - 18

PLOT DATE : 8/31/2016 2:16 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT



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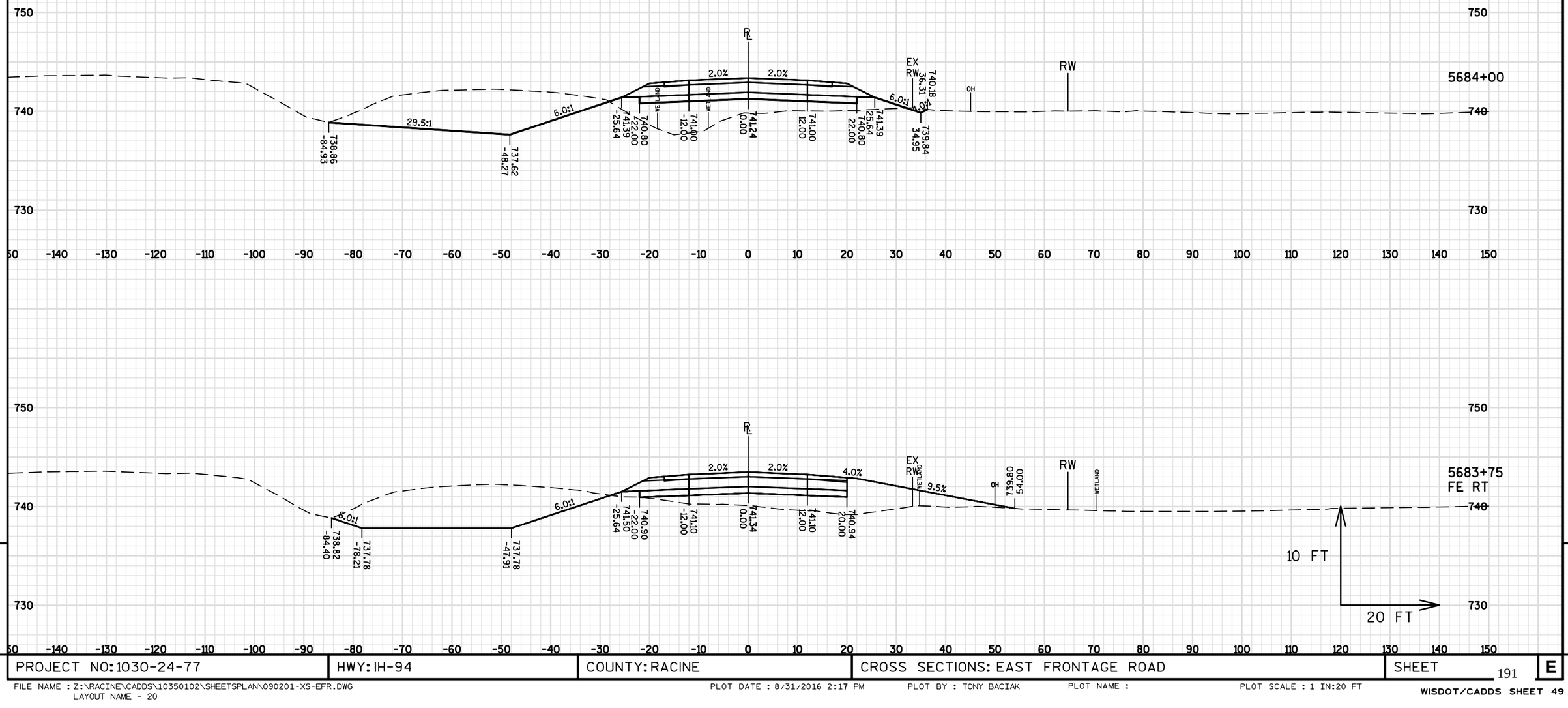
PROJECT NO: 1030-24-77	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 190	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-EFR.DWG
LAYOUT NAME - 19

PLOT DATE : 8/31/2016 2:17 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

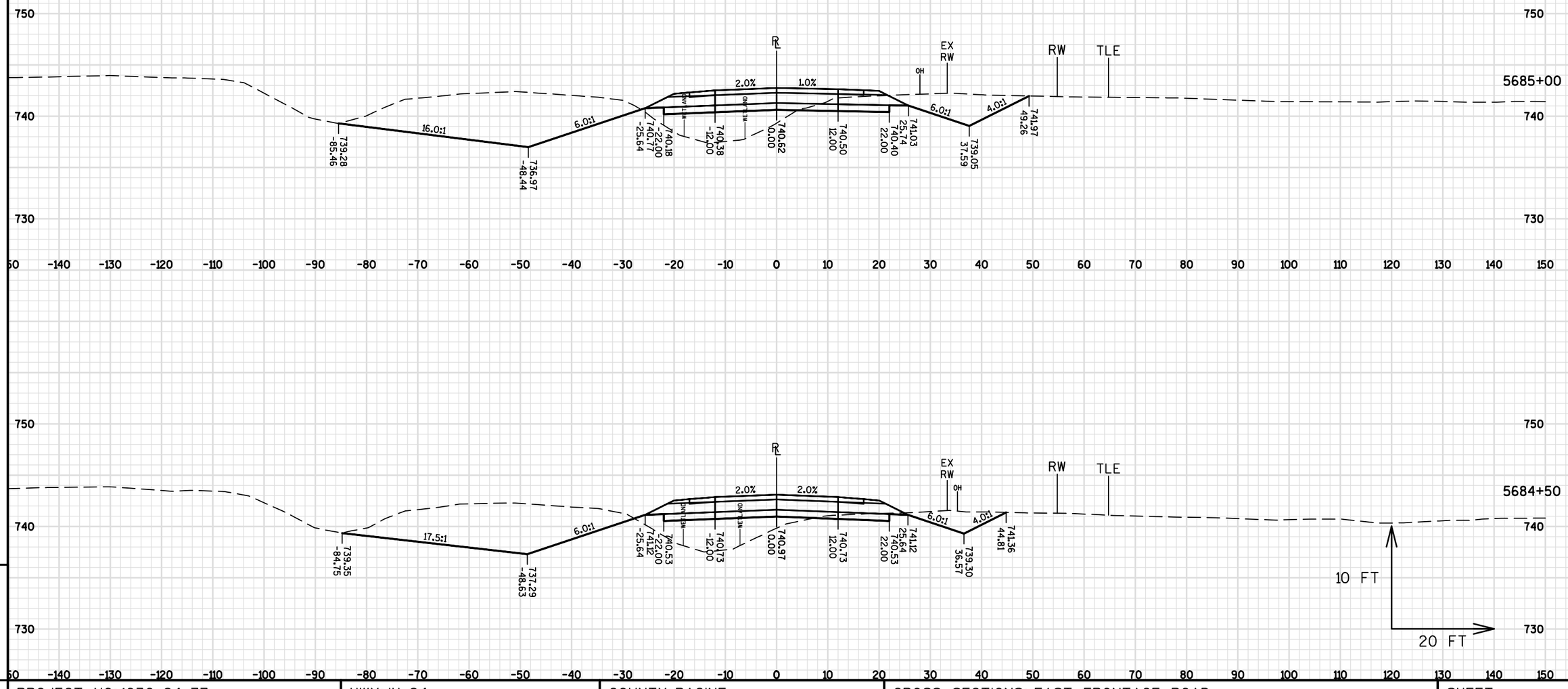
WISDOT/CADDS SHEET 49



PROJECT NO: 1030-24-77	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 191 E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-EFR.DWG
LAYOUT NAME - 20

PLOT DATE : 8/31/2016 2:17 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT



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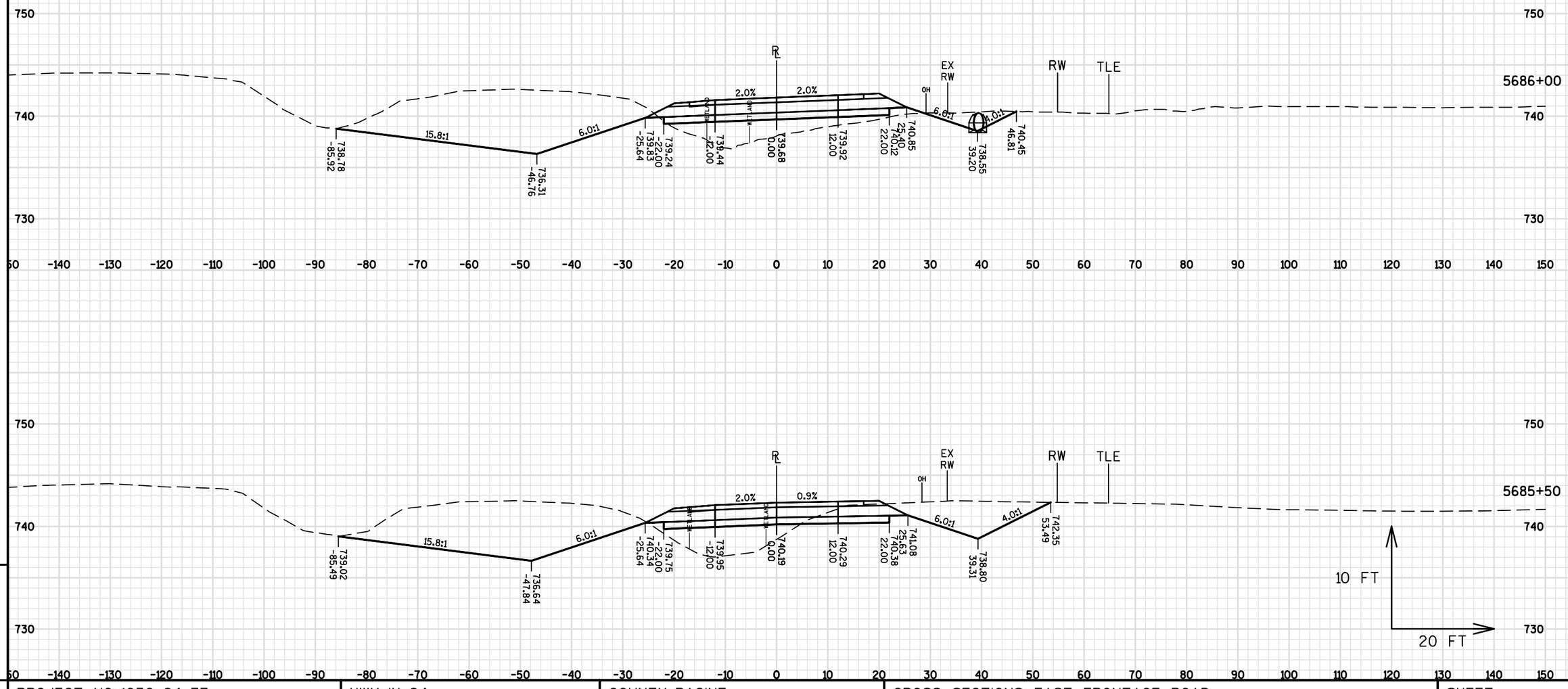
PROJECT NO: 1030-24-77	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-EFR.DWG
LAYOUT NAME - 21

PLOT DATE : 8/31/2016 2:17 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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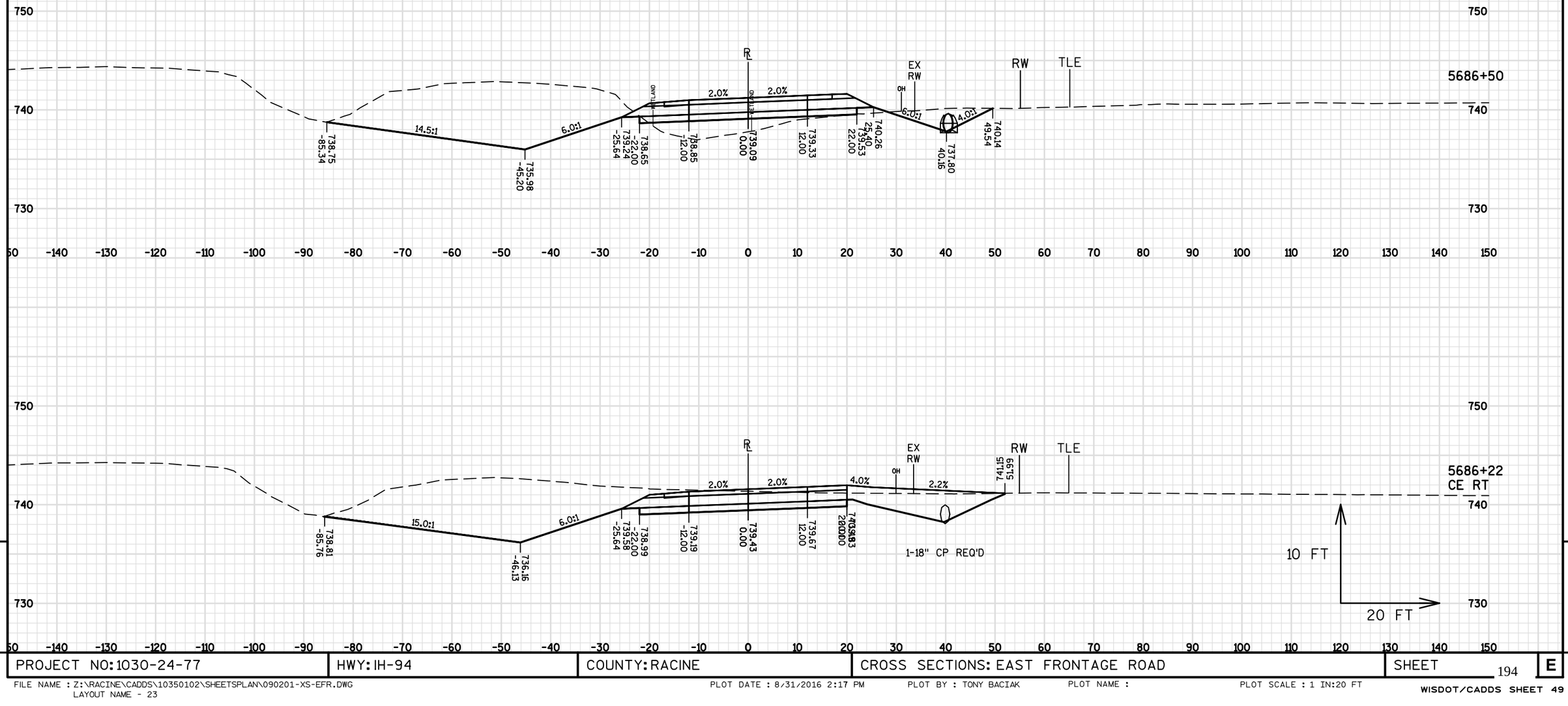
PROJECT NO: 1030-24-77	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-EFR.DWG
LAYOUT NAME - 22

PLOT DATE : 8/31/2016 2:17 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

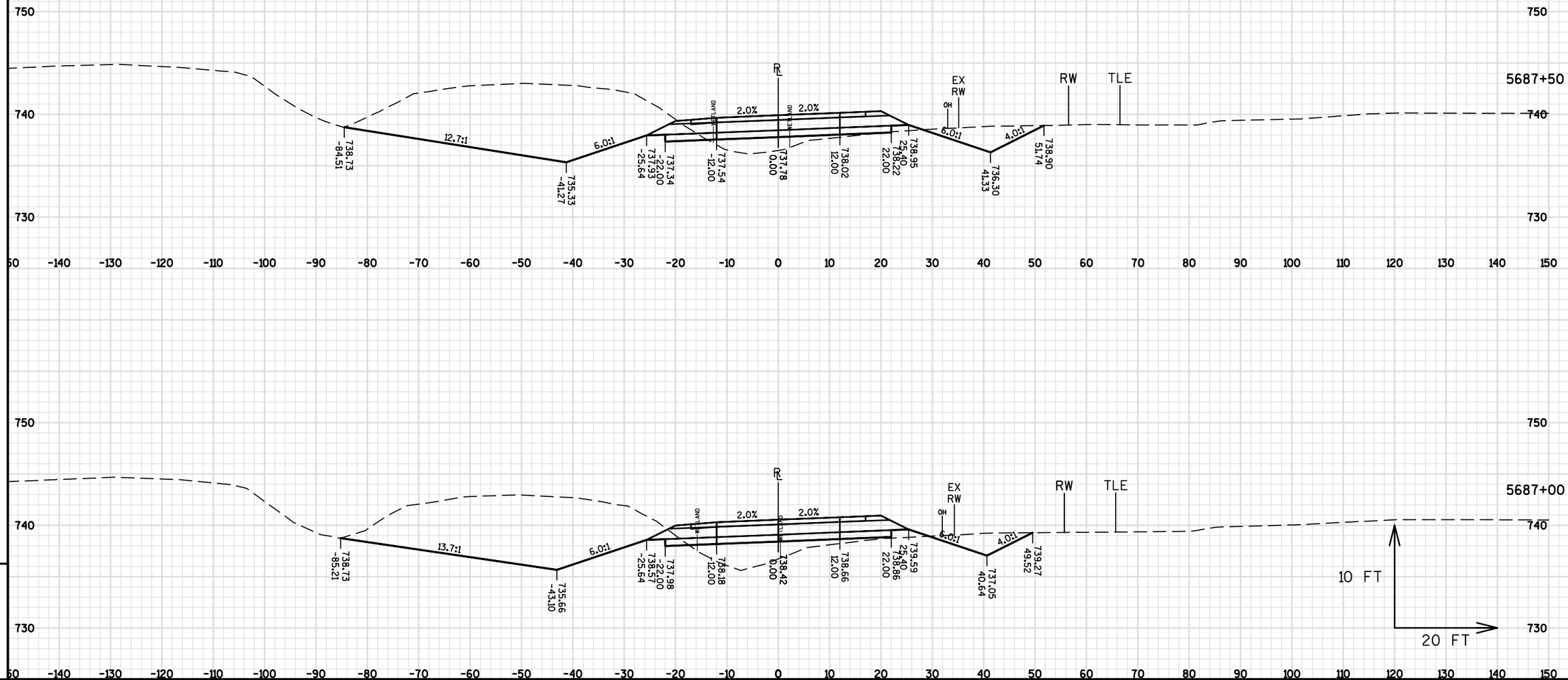


PROJECT NO: 1030-24-77	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 194 E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-EFR.DWG
LAYOUT NAME - 23

PLOT DATE : 8/31/2016 2:17 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

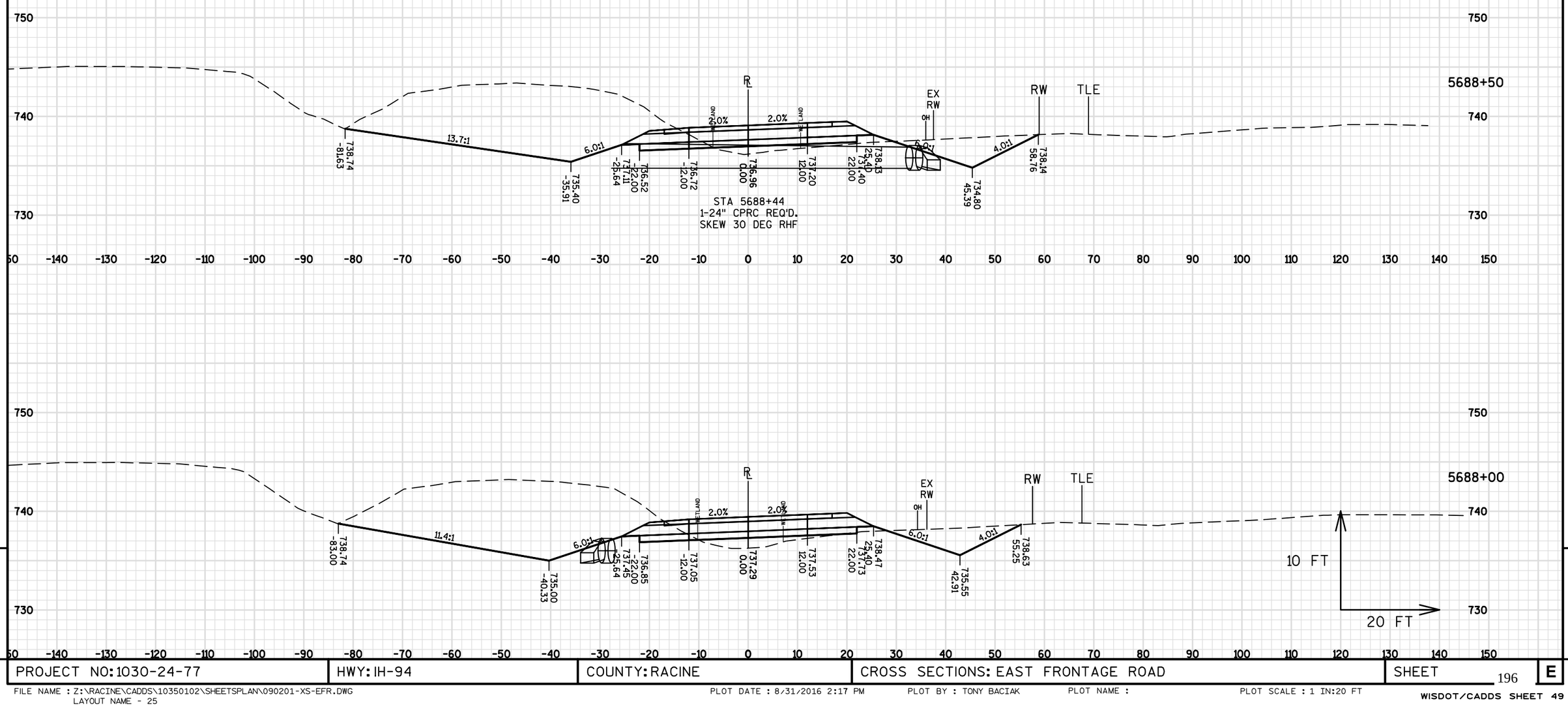


PROJECT NO: 1030-24-77	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-EFR.DWG
LAYOUT NAME - 24

PLOT DATE : 8/31/2016 2:17 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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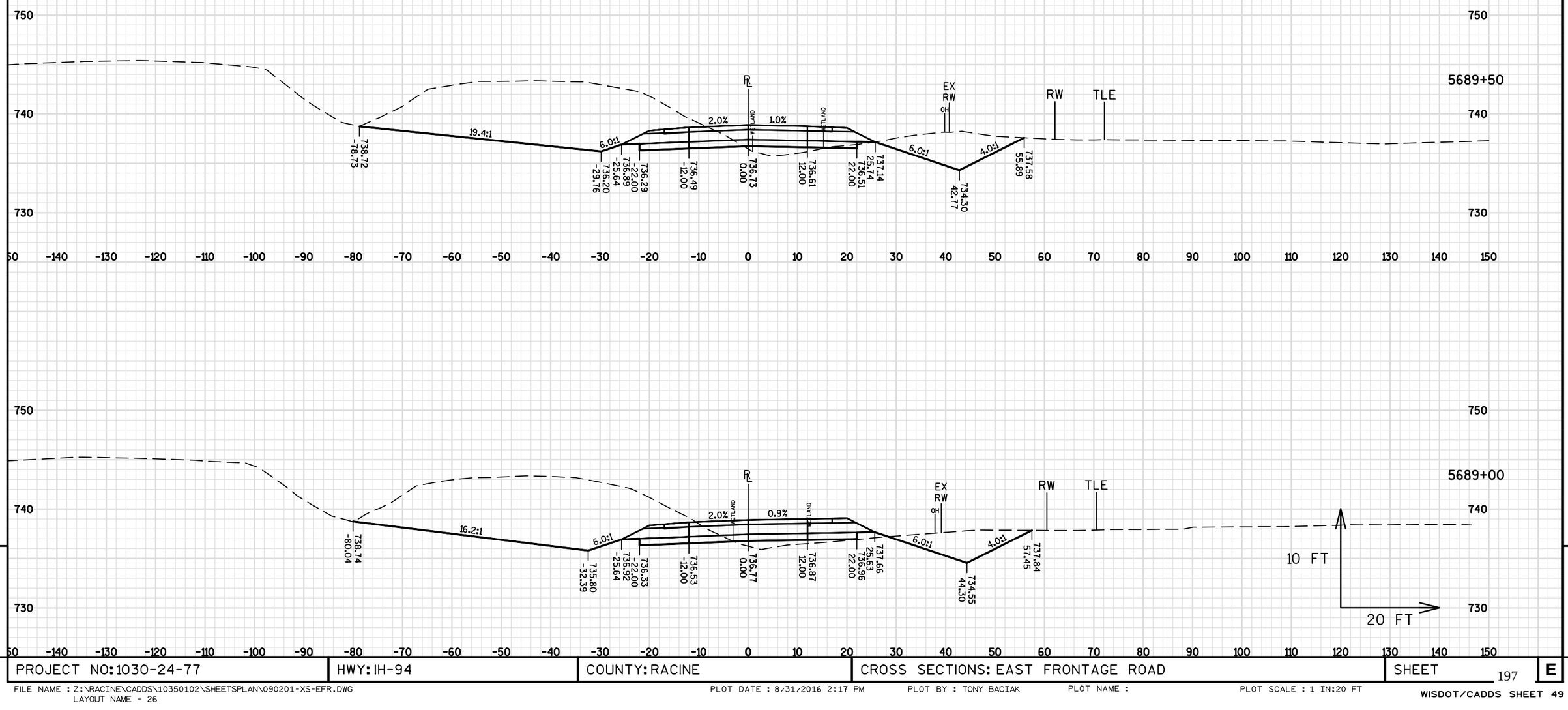
PROJECT NO: 1030-24-77	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-EFR.DWG
LAYOUT NAME - 25

PLOT DATE : 8/31/2016 2:17 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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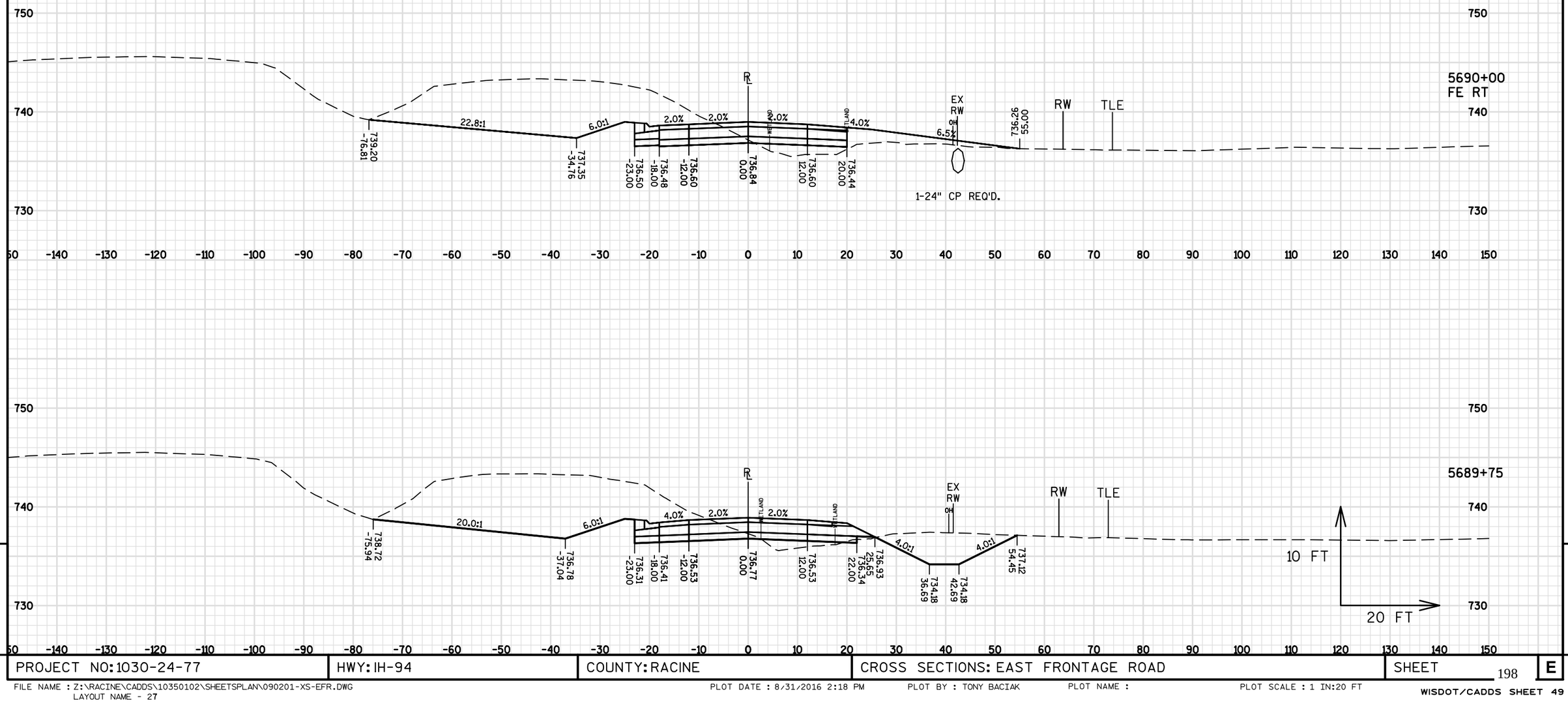
PROJECT NO: 1030-24-77	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-EFR.DWG
LAYOUT NAME - 26

PLOT DATE : 8/31/2016 2:17 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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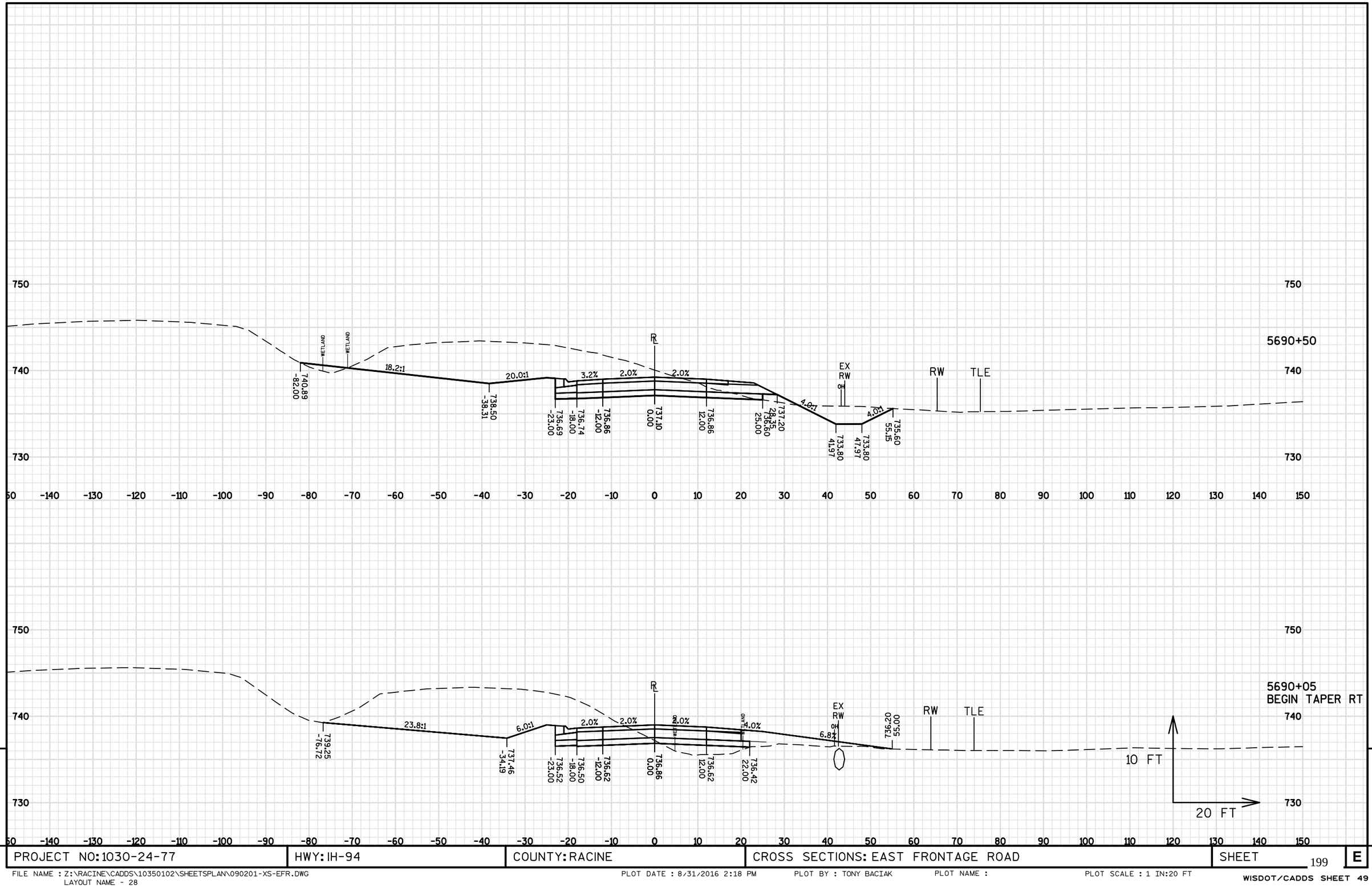
PROJECT NO: 1030-24-77	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-EFR.DWG
LAYOUT NAME - 27

PLOT DATE : 8/31/2016 2:18 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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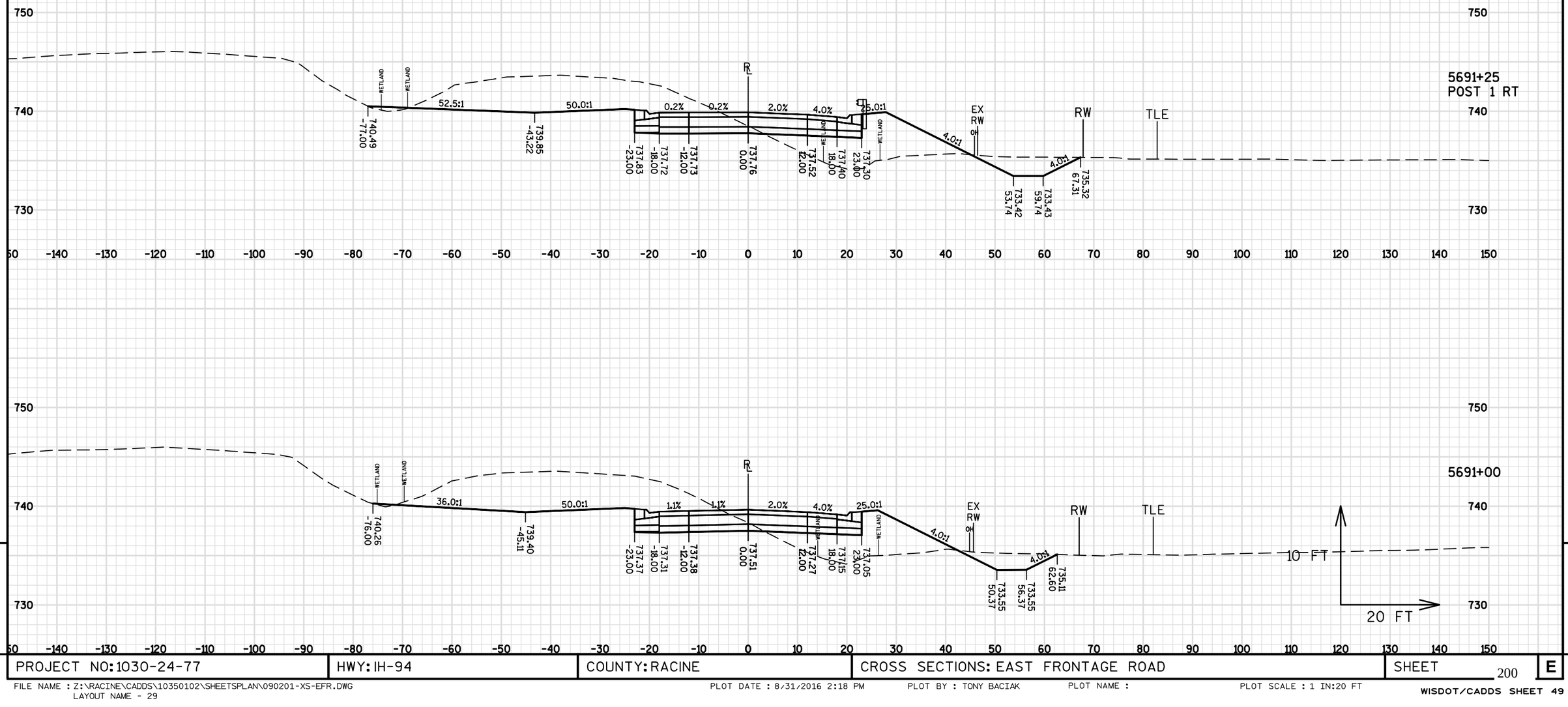
9

PROJECT NO: 1030-24-77	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-EFR.DWG
LAYOUT NAME - 28

PLOT DATE : 8/31/2016 2:18 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

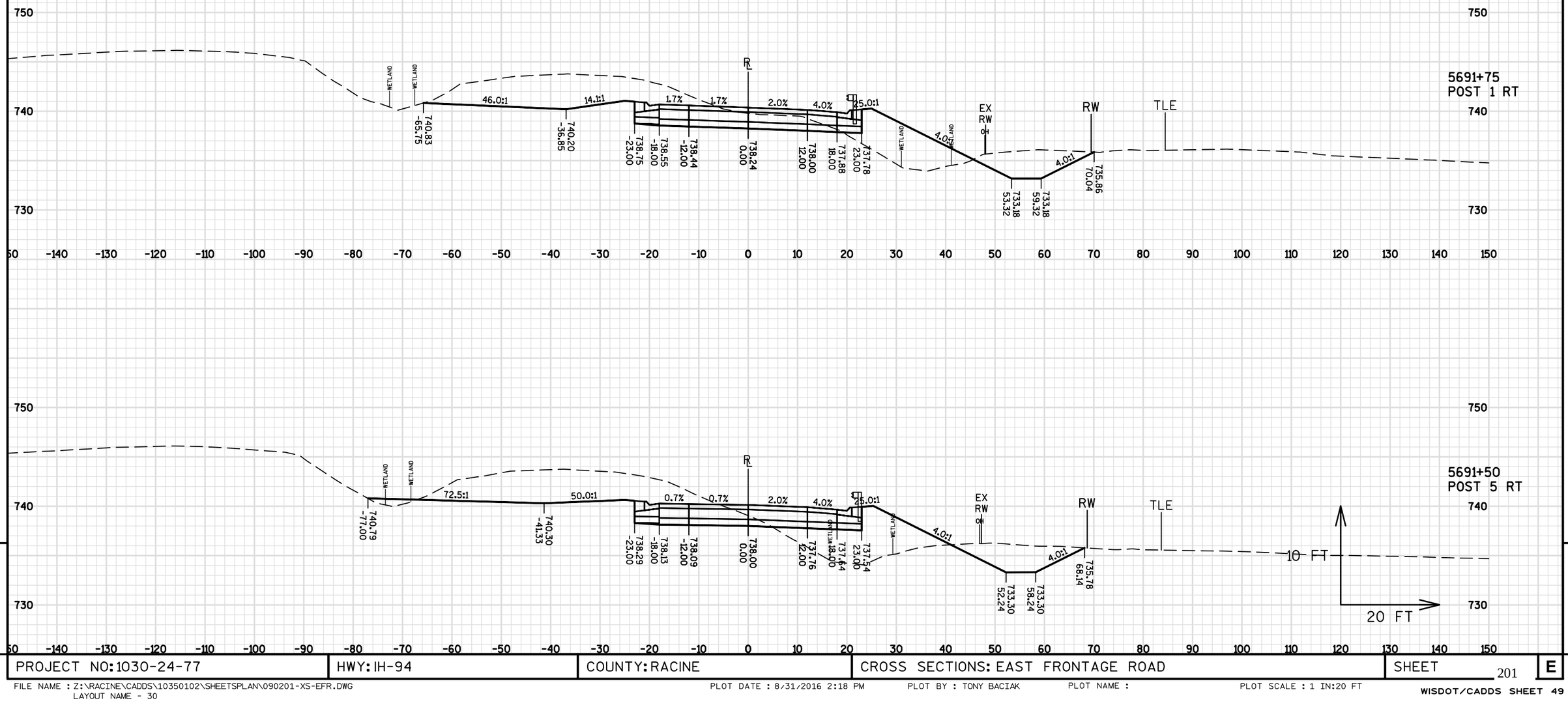


PROJECT NO: 1030-24-77	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-EFR.DWG
LAYOUT NAME - 29

PLOT DATE : 8/31/2016 2:18 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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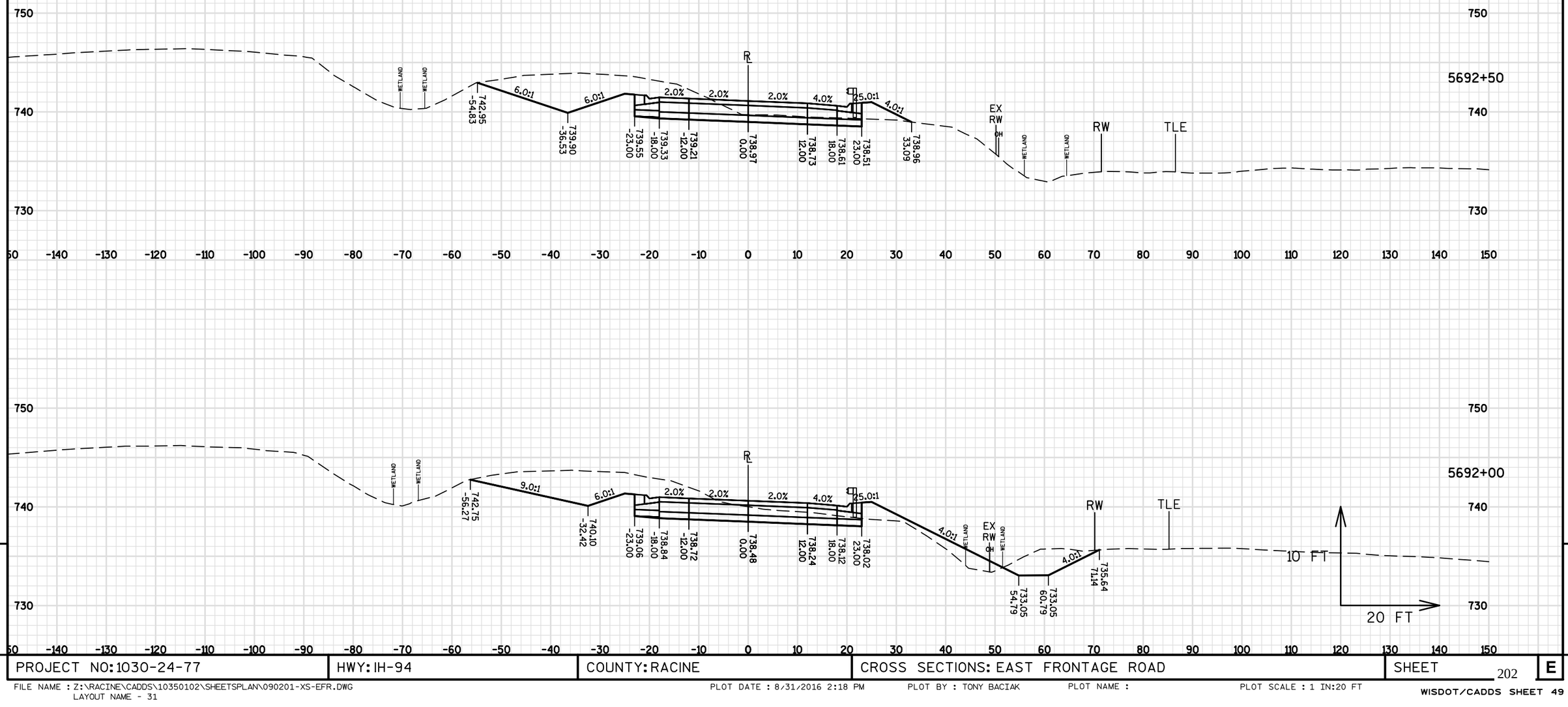
PROJECT NO: 1030-24-77	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-EFR.DWG
LAYOUT NAME - 30

PLOT DATE : 8/31/2016 2:18 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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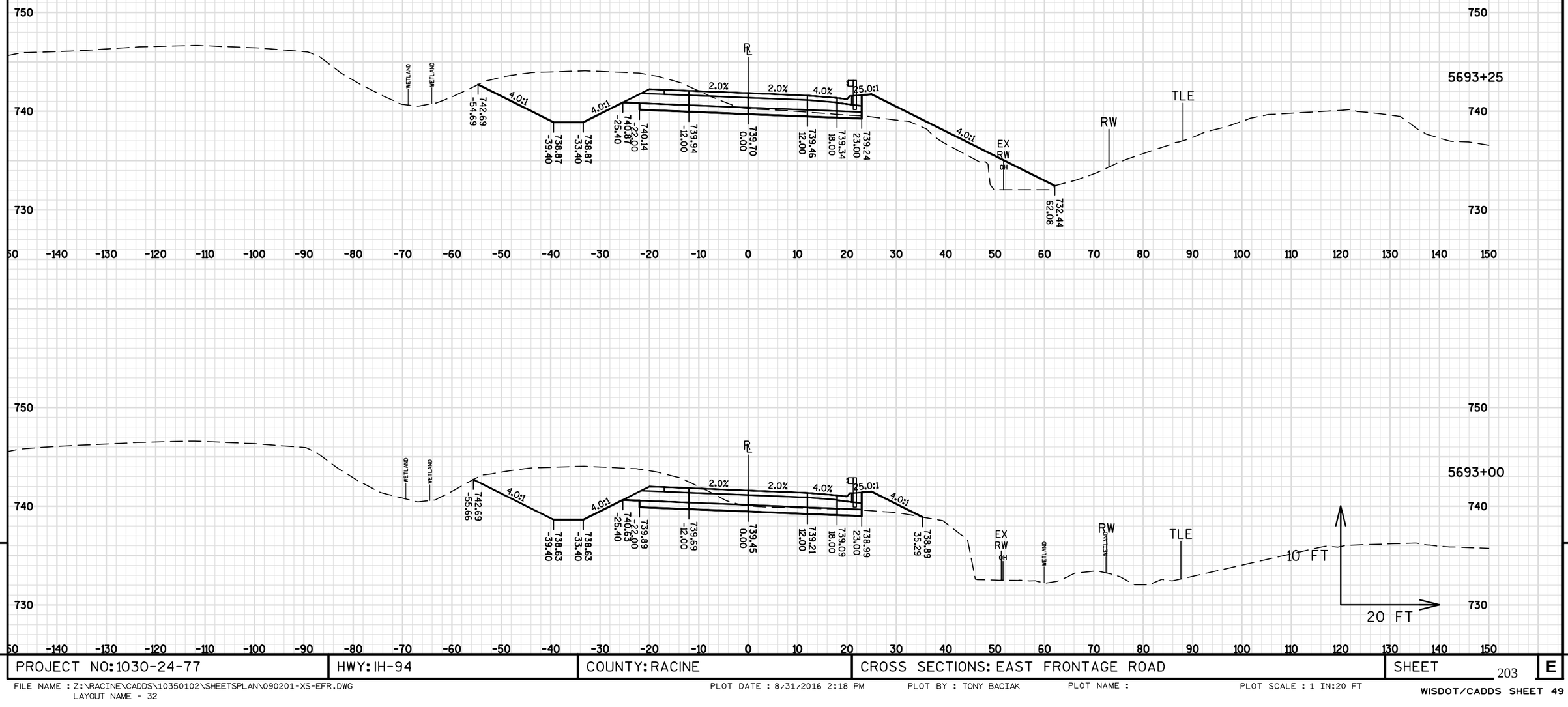
PROJECT NO: 1030-24-77	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-EFR.DWG
LAYOUT NAME - 31

PLOT DATE : 8/31/2016 2:18 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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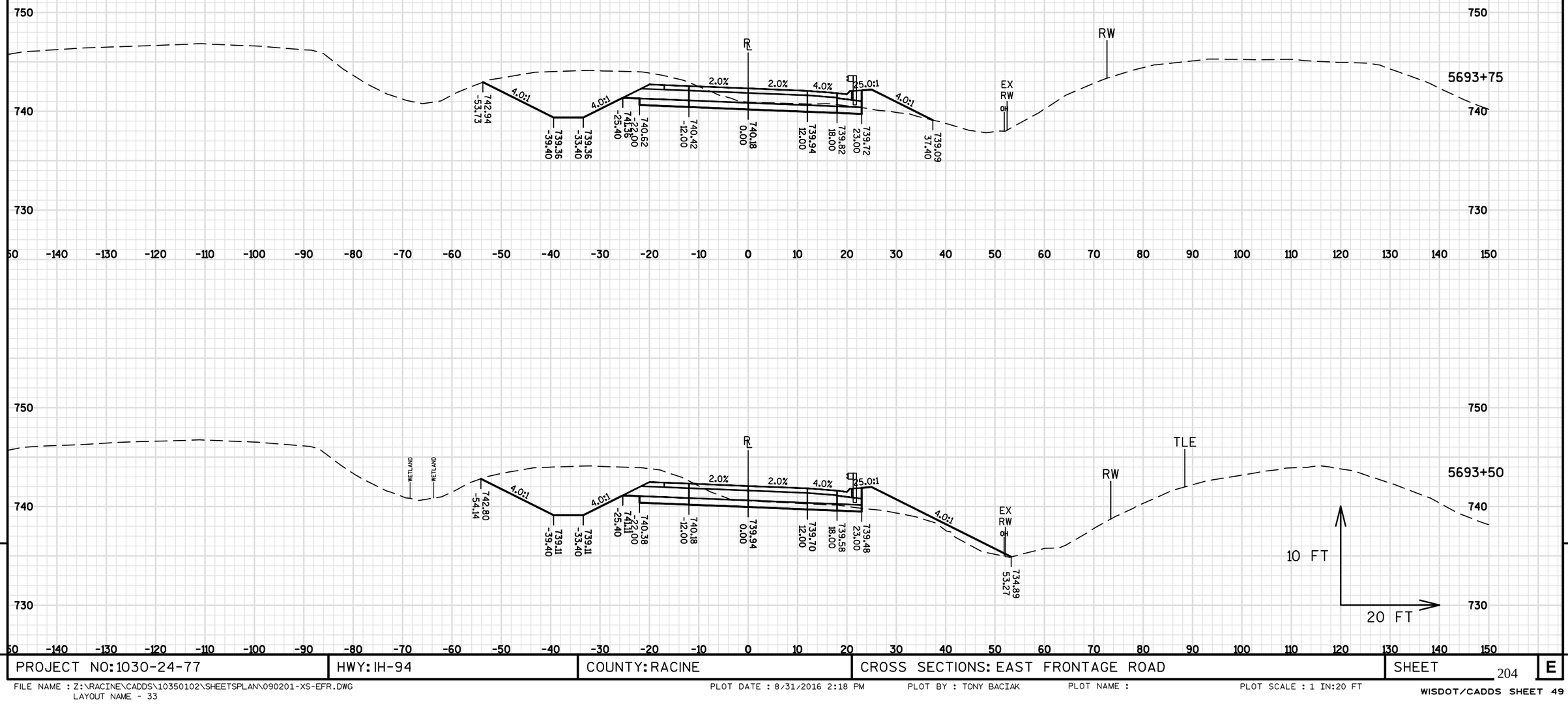
PROJECT NO: 1030-24-77	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-EFR.DWG
LAYOUT NAME - 32

PLOT DATE : 8/31/2016 2:18 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

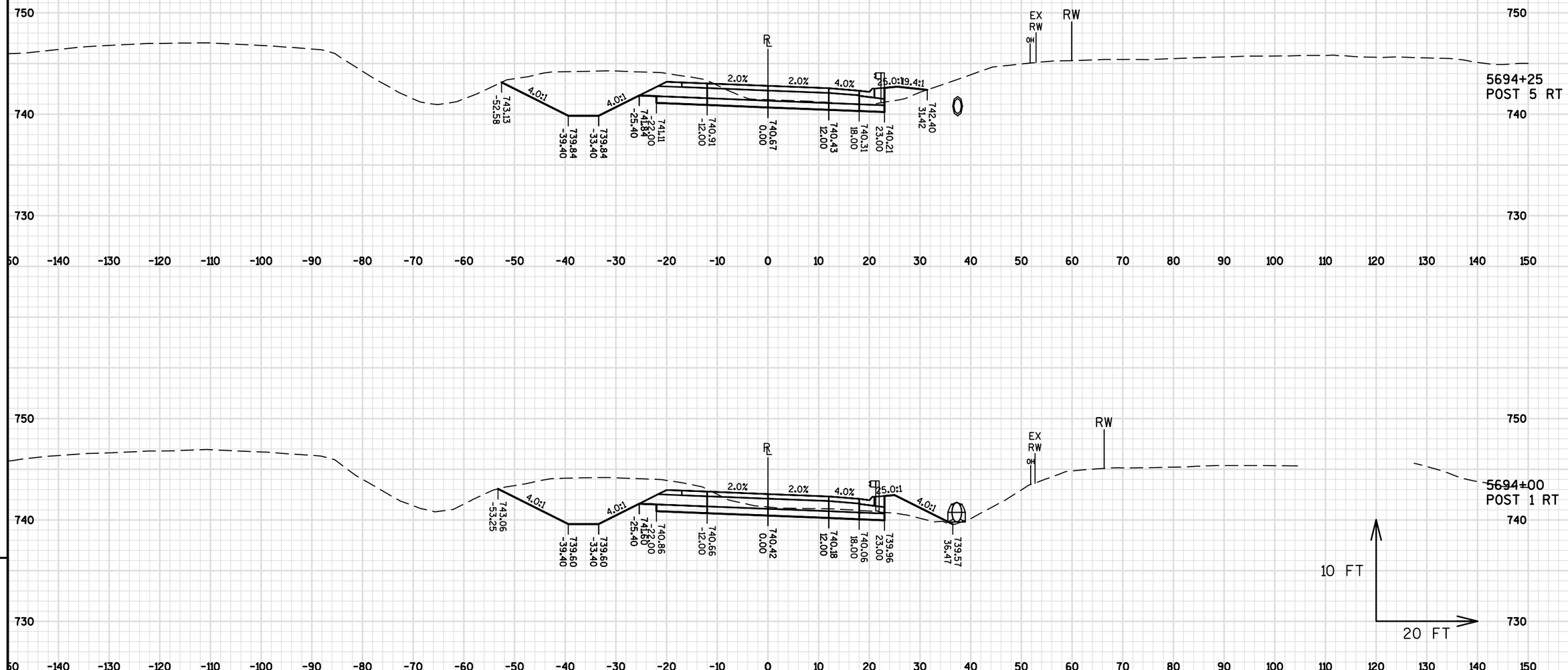


PROJECT NO: 1030-24-77	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 204 E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-EFR.DWG
LAYOUT NAME - 33

PLOT DATE : 8/31/2016 2:18 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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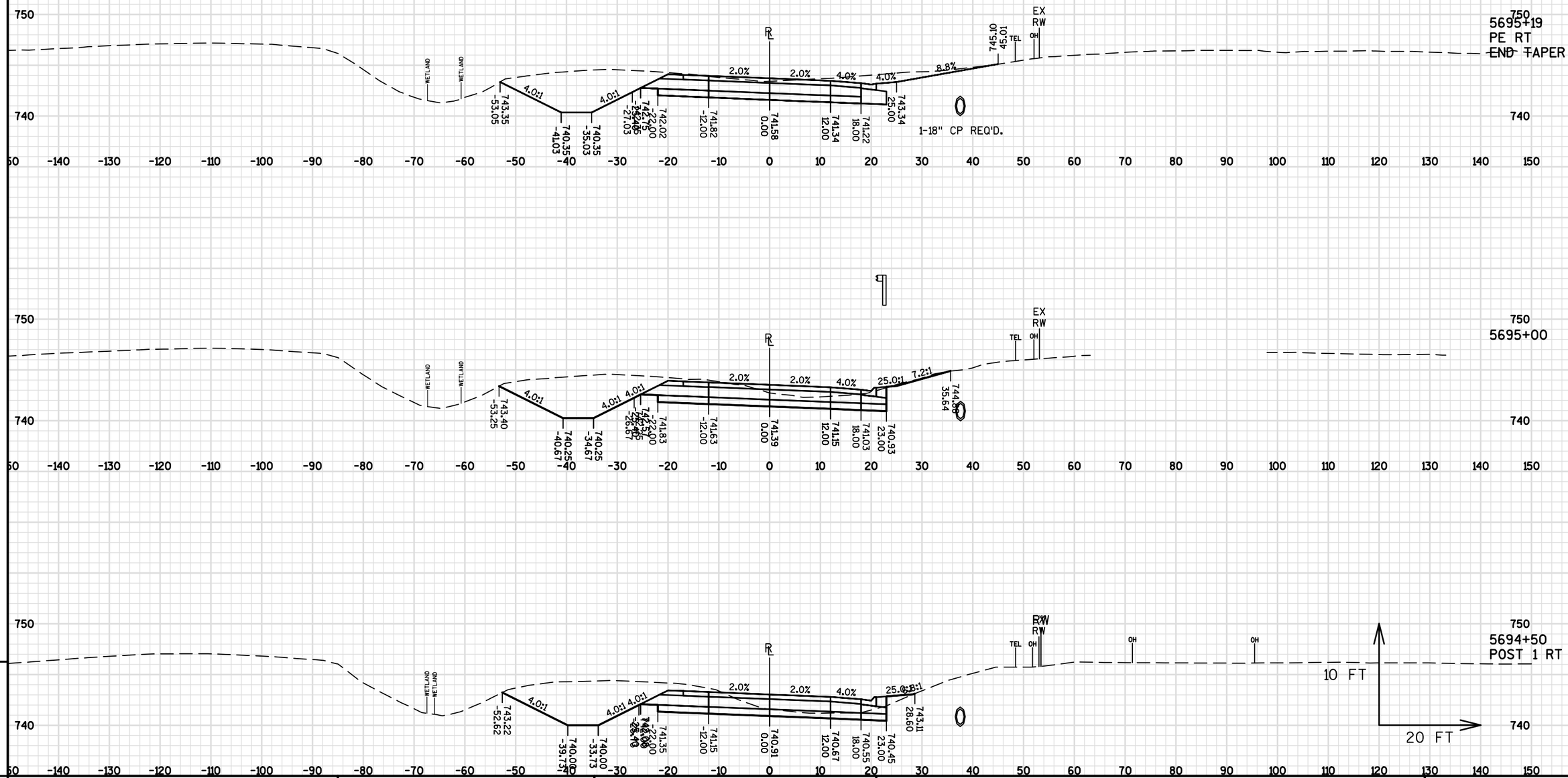
PROJECT NO: 1030-24-77	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-EFR.DWG
LAYOUT NAME - 34

PLOT DATE : 8/31/2016 2:18 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

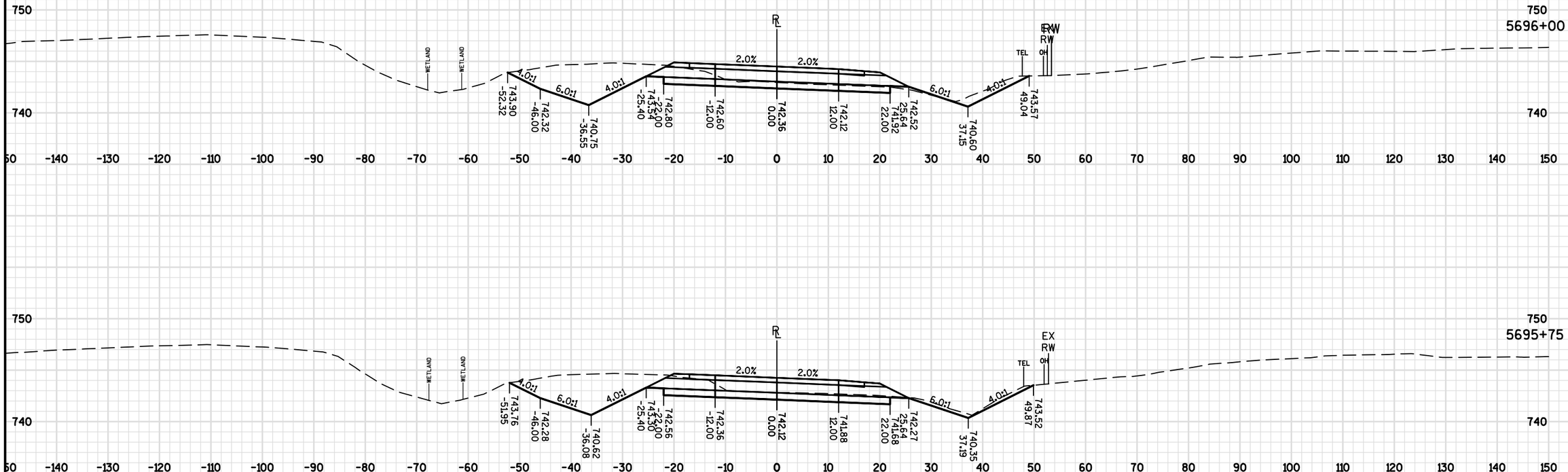


PROJECT NO: 1030-24-77	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 206	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-EFR.DWG
LAYOUT NAME - 35

PLOT DATE : 8/31/2016 2:18 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

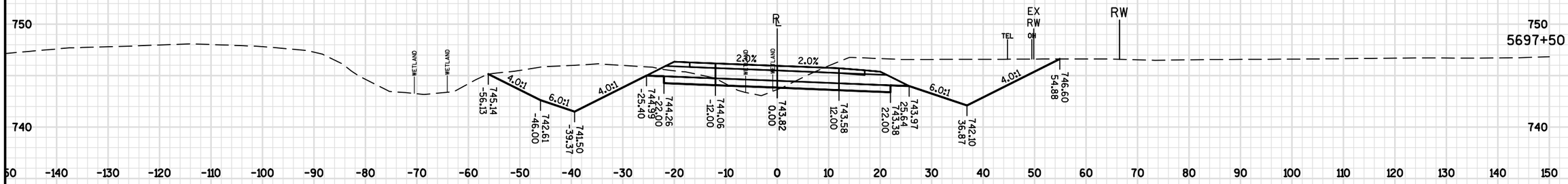


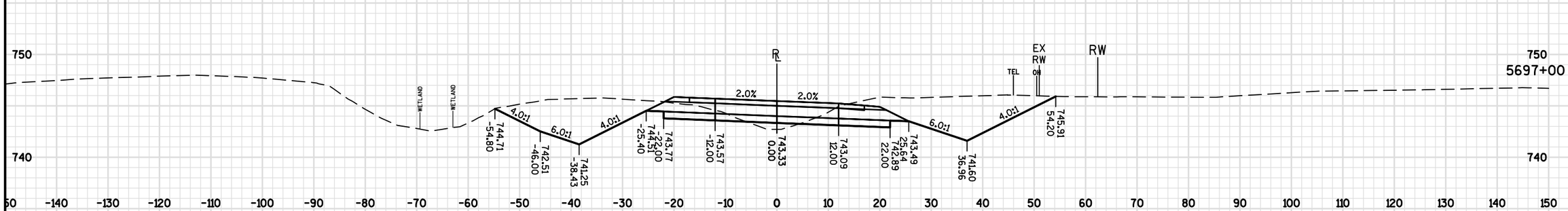
PROJECT NO: 1030-24-77	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 207 E

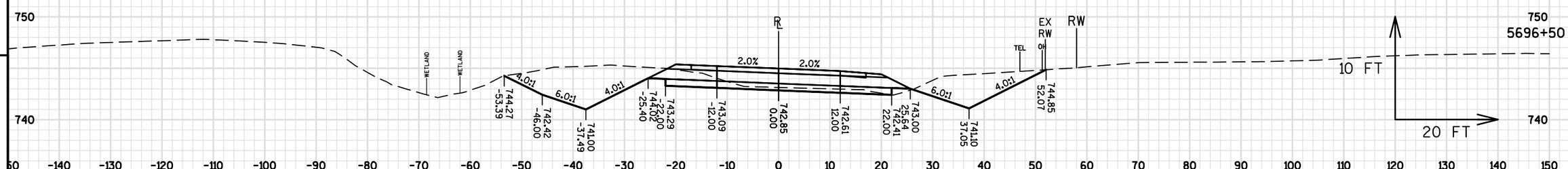
FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-EFR.DWG
LAYOUT NAME - 36

PLOT DATE : 8/31/2016 2:19 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49







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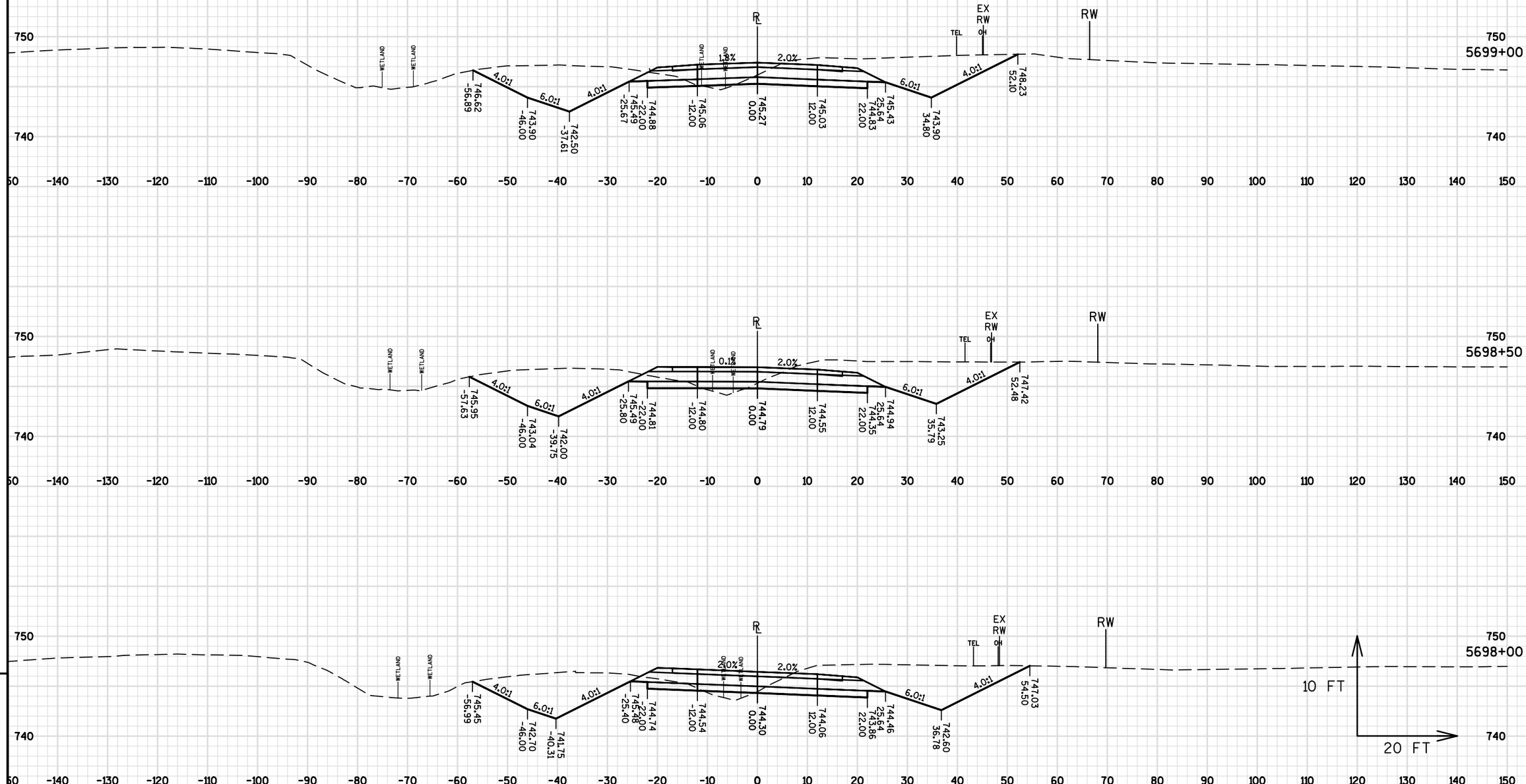
PROJECT NO: 1030-24-77	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 208	E



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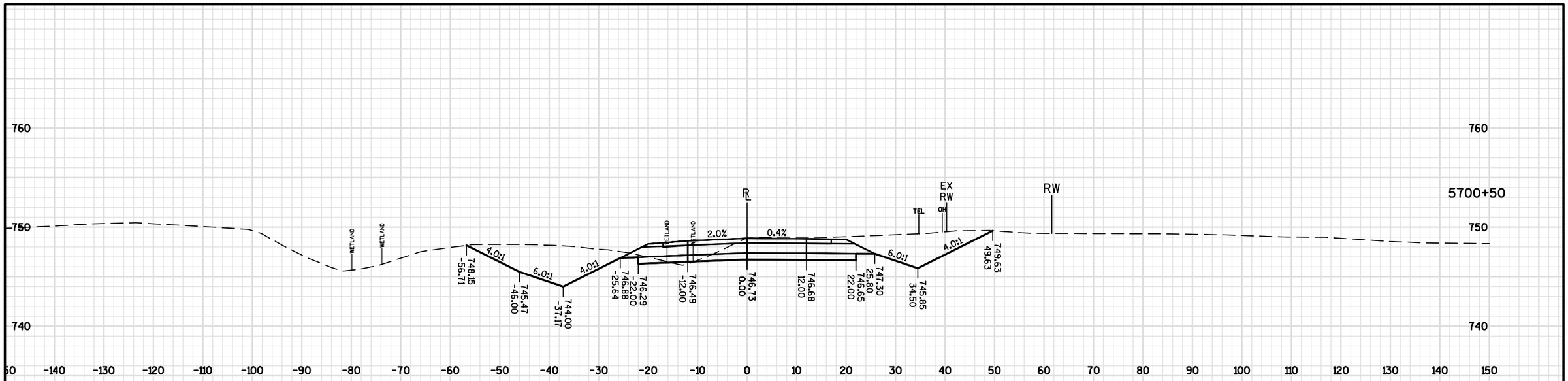
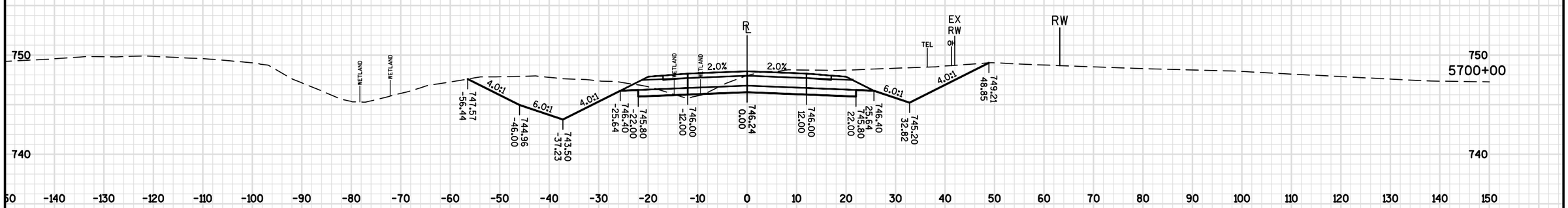
PROJECT NO: 1030-24-77	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 209	E

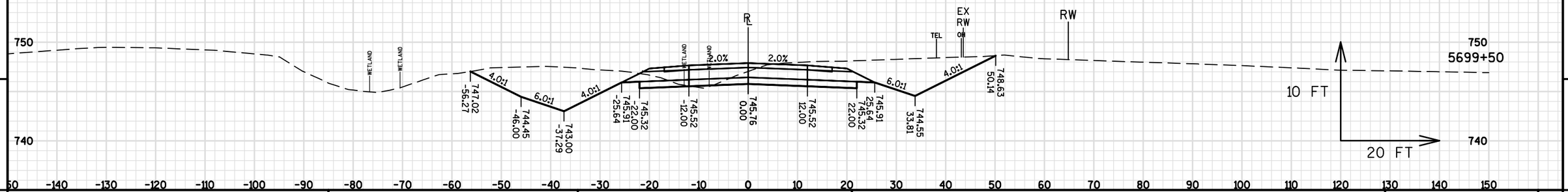
FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-EFR.DWG
LAYOUT NAME - 38

PLOT DATE : 8/31/2016 2:19 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49







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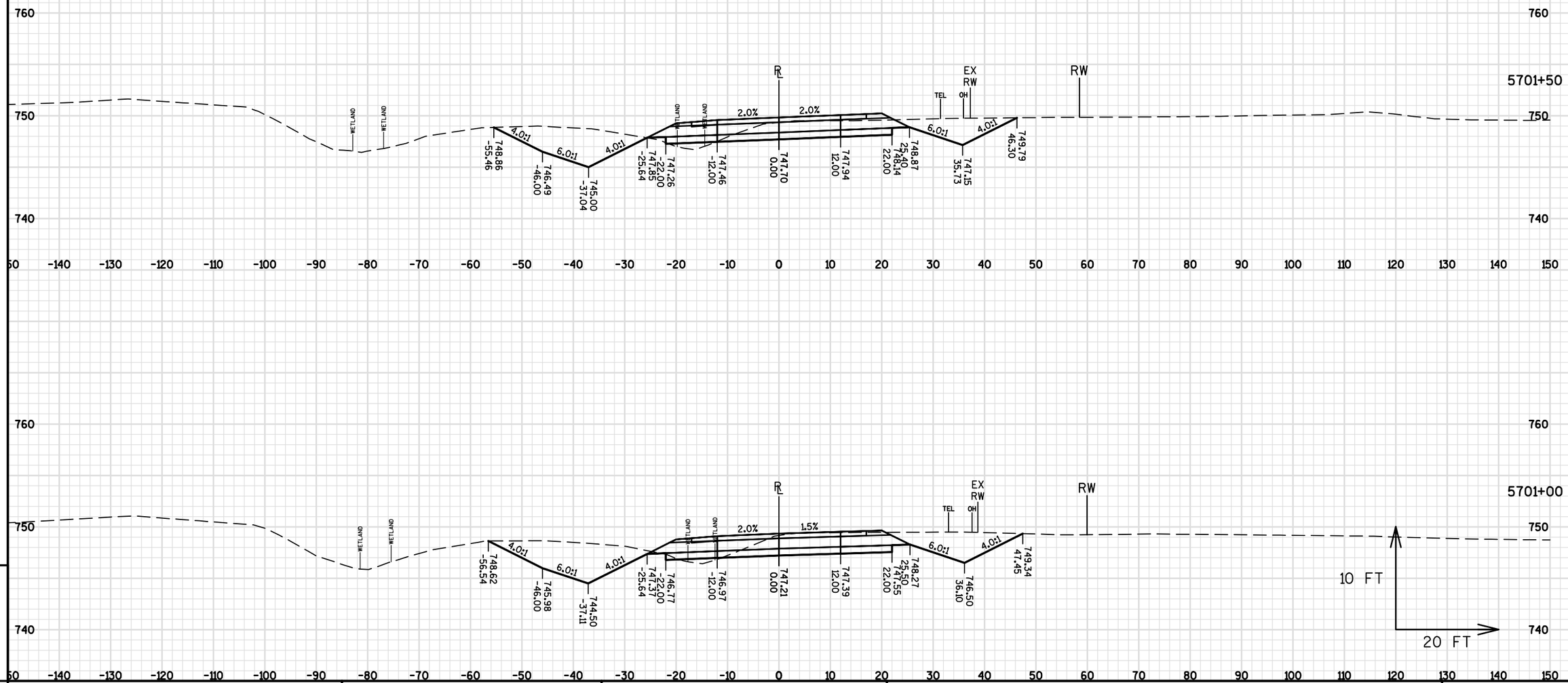
PROJECT NO: 1030-24-77	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 210	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-EFR.DWG
LAYOUT NAME - 39

PLOT DATE : 8/31/2016 2:19 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



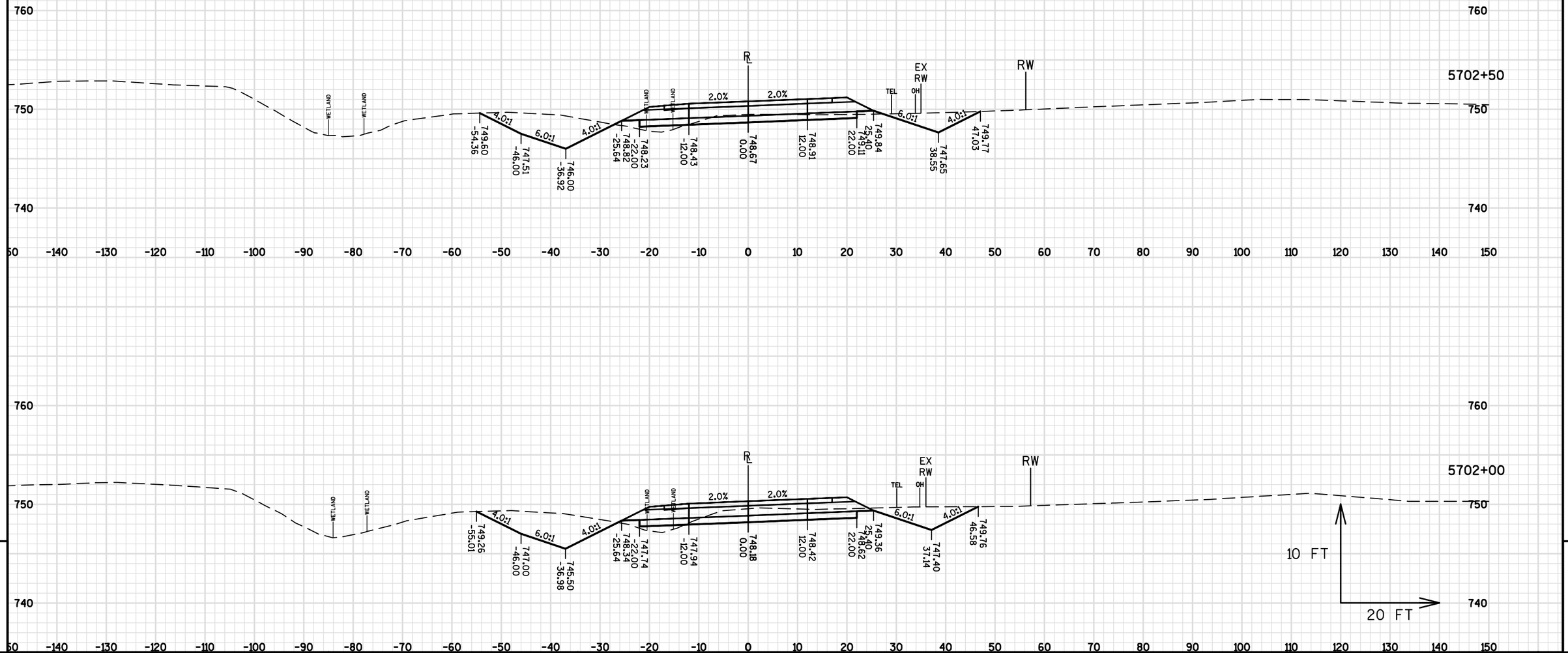
9 9

PROJECT NO: 1030-24-77	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-EFR.DWG
LAYOUT NAME - 40

PLOT DATE : 8/31/2016 2:19 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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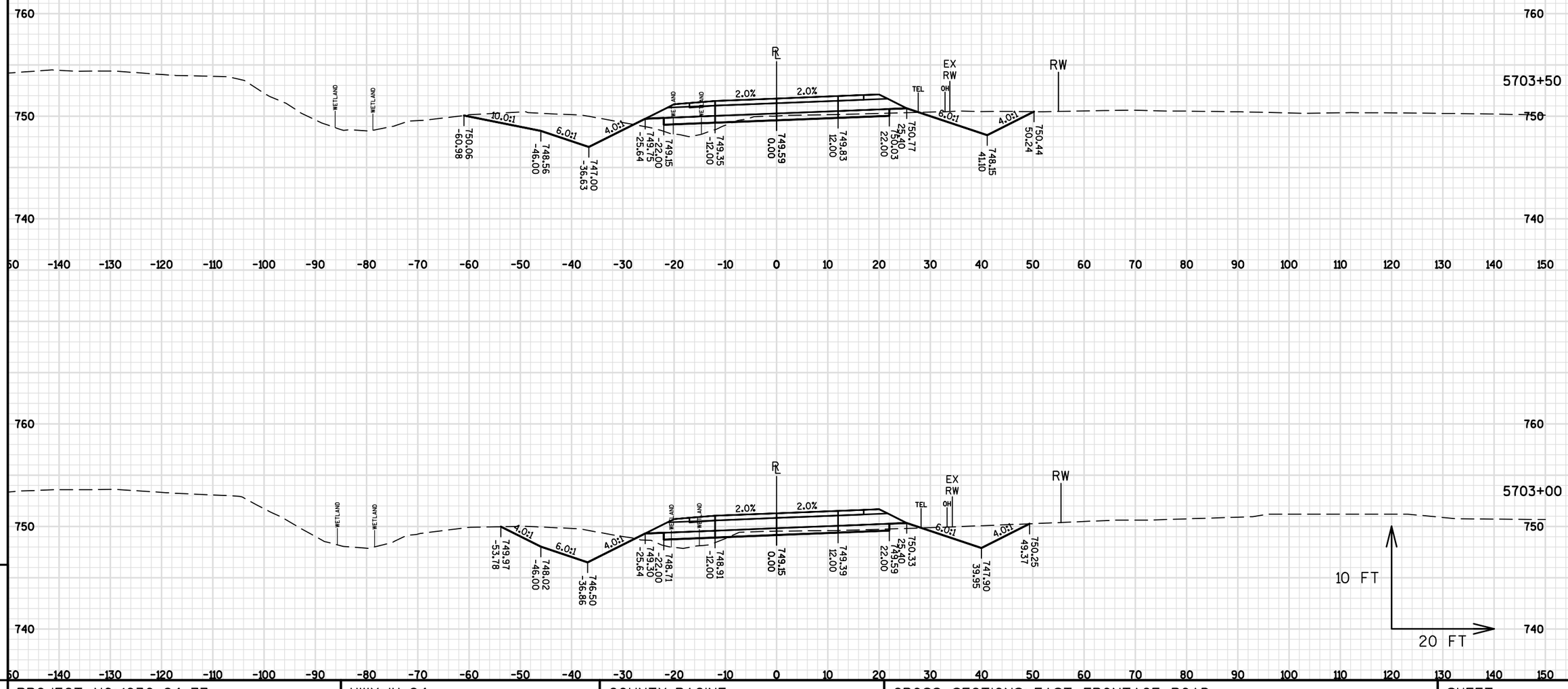
PROJECT NO: 1030-24-77	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-EFR.DWG
LAYOUT NAME - 41

PLOT DATE : 8/31/2016 2:19 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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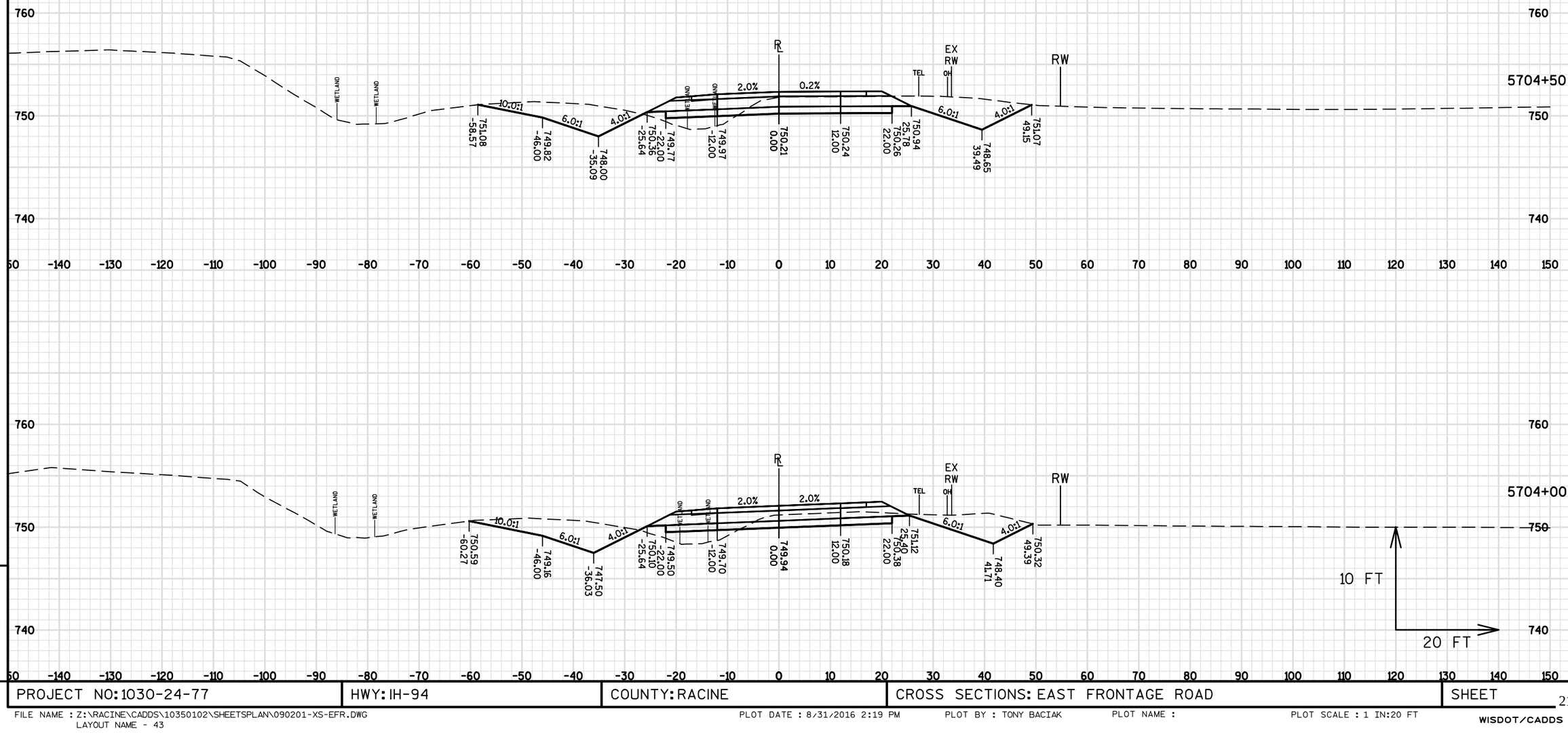
PROJECT NO: 1030-24-77	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 213	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-EFR.DWG
LAYOUT NAME - 42

PLOT DATE : 8/31/2016 2:19 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



9

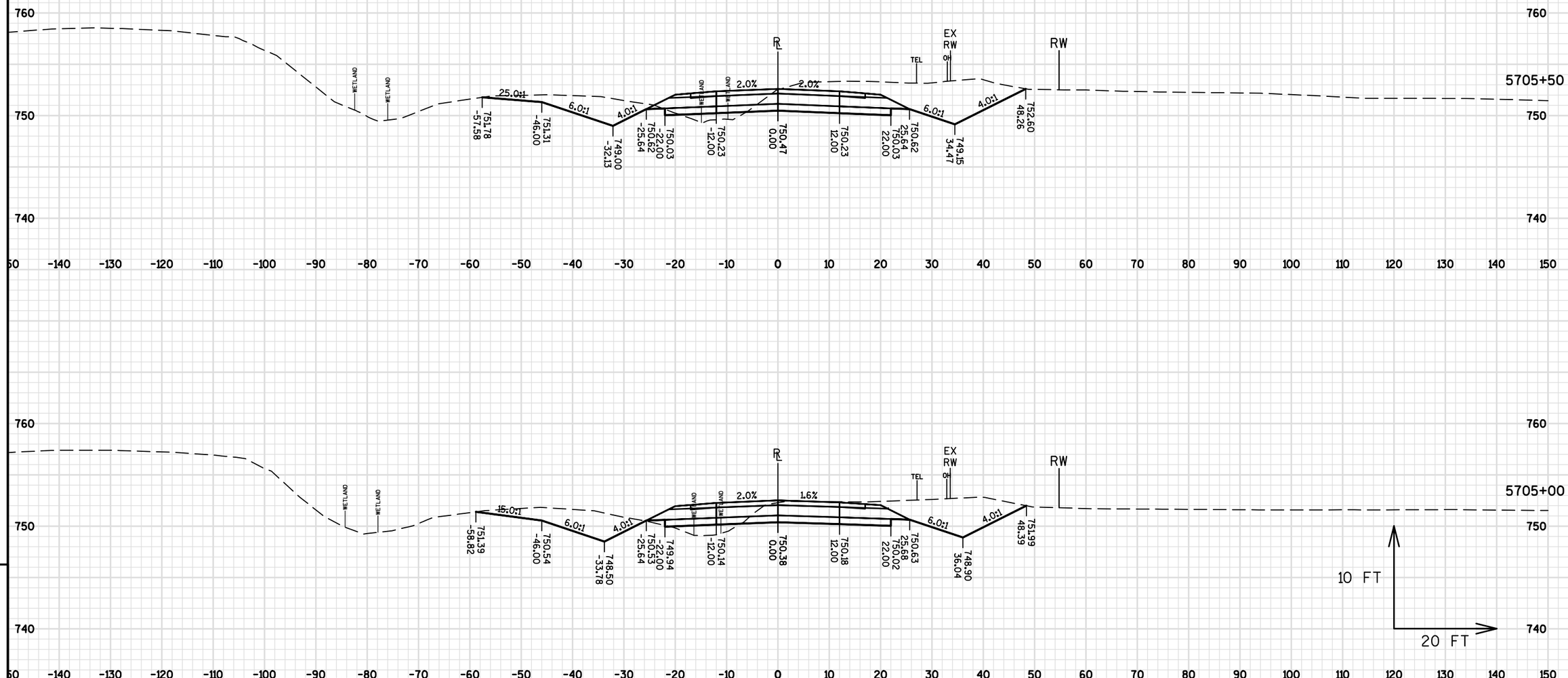
9

PROJECT NO: 1030-24-77	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 214	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-EFR.DWG
LAYOUT NAME - 43

PLOT DATE : 8/31/2016 2:19 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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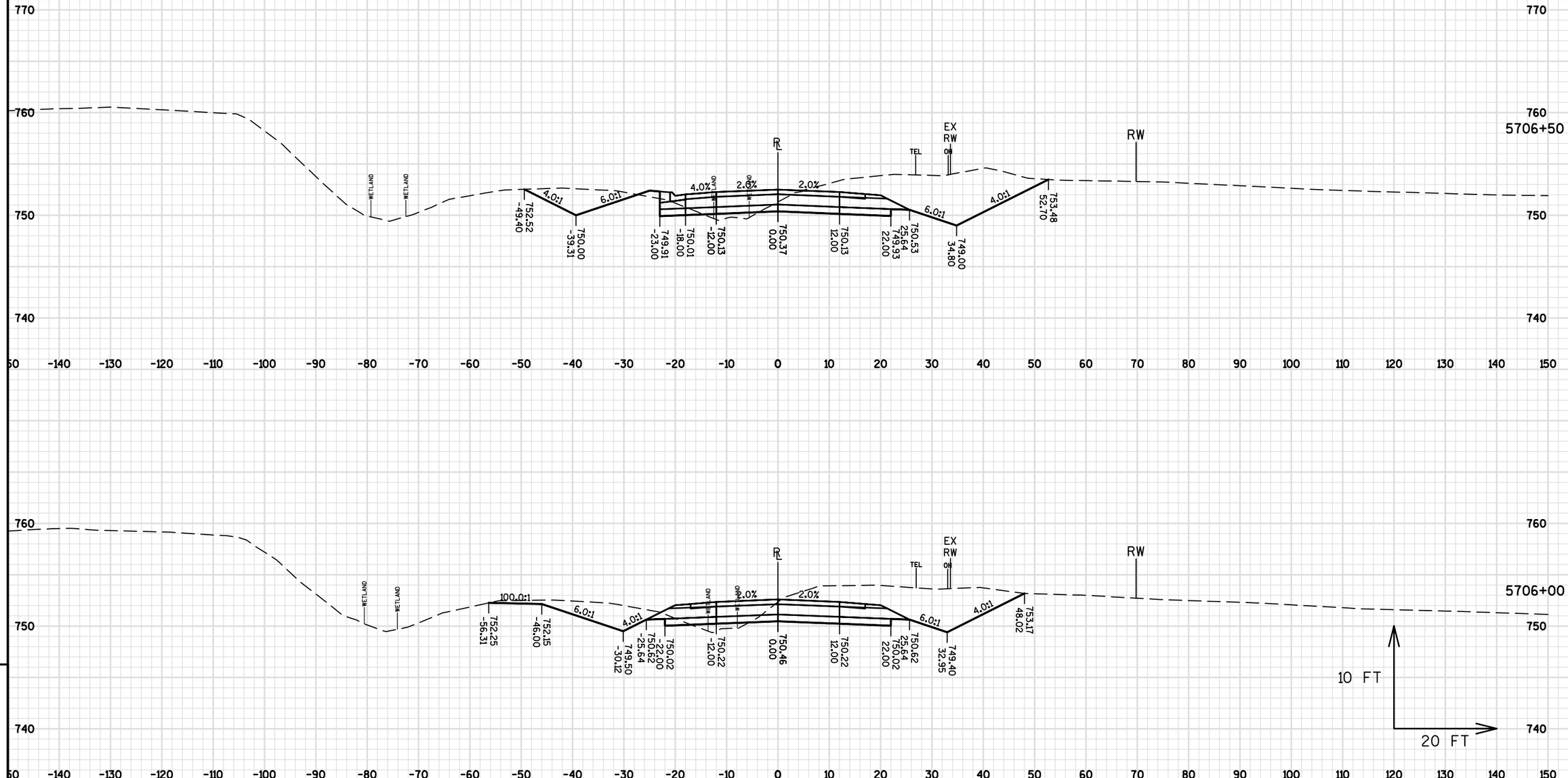
9

PROJECT NO: 1030-24-77	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 215	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-EFR.DWG
LAYOUT NAME - 44

PLOT DATE : 8/31/2016 2:19 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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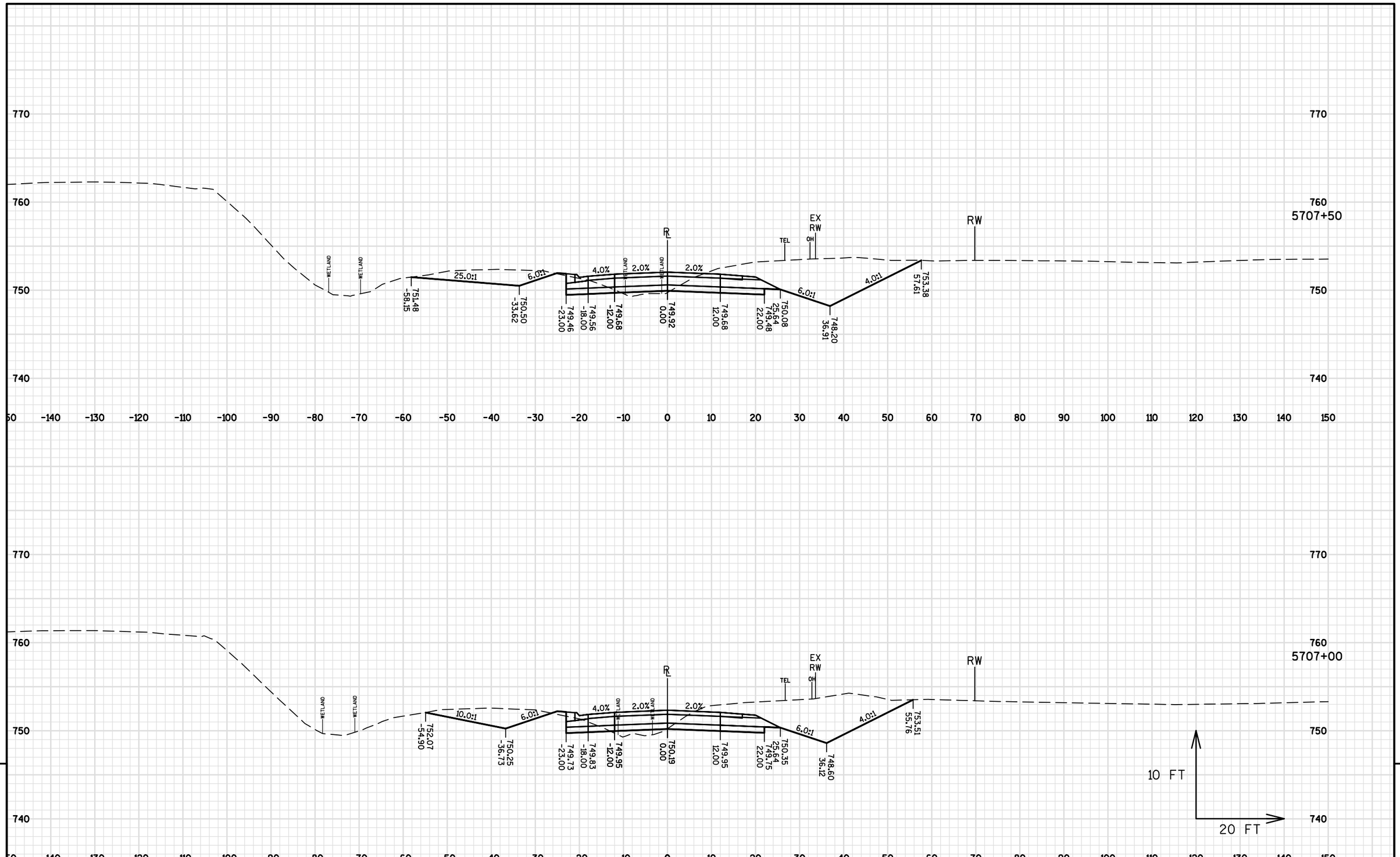
PROJECT NO: 1030-24-77	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 216	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-EFR.DWG
LAYOUT NAME - 45

PLOT DATE : 8/31/2016 2:20 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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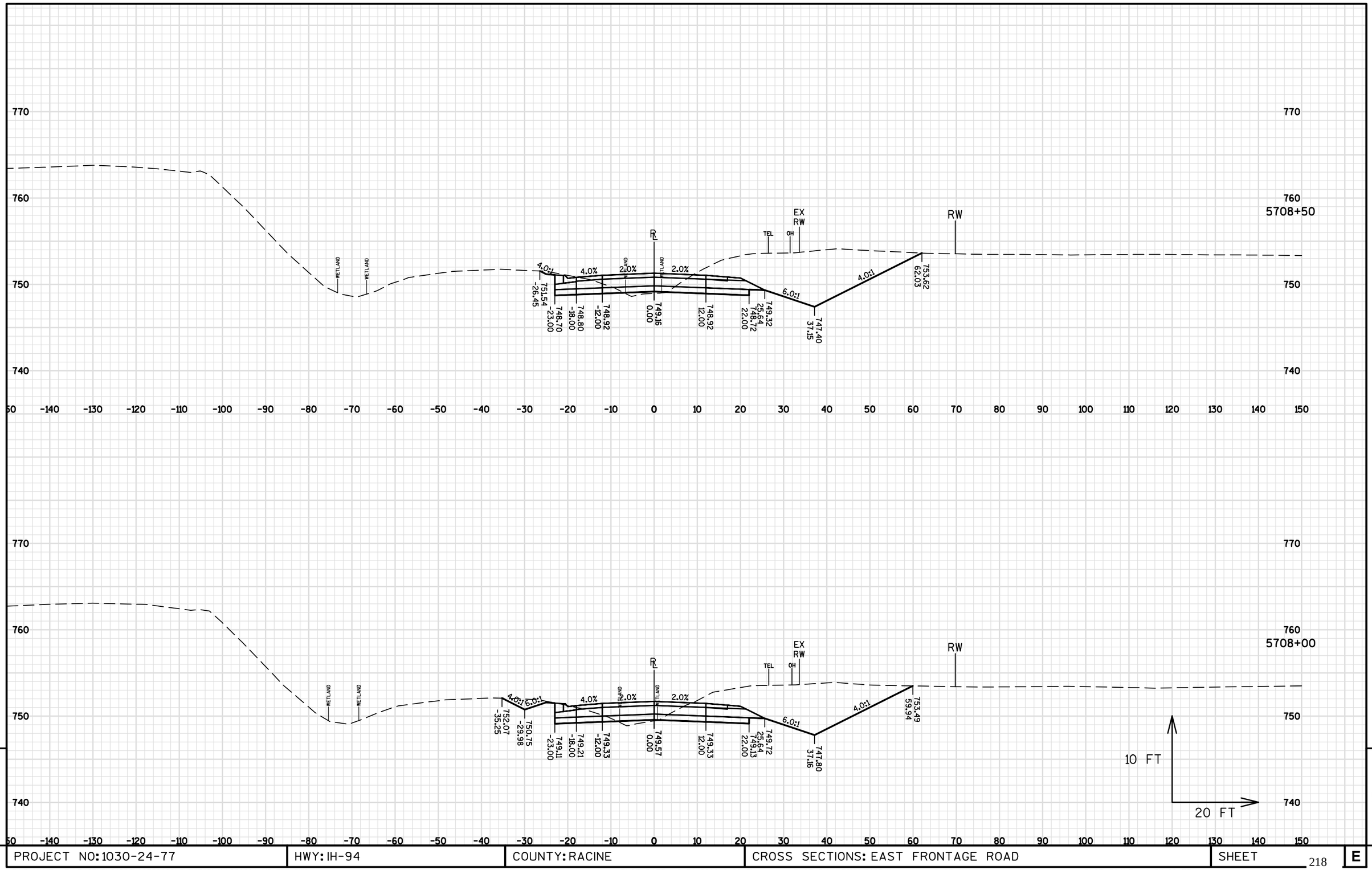
9

PROJECT NO: 1030-24-77	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 217	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-EFR.DWG
LAYOUT NAME - 46

PLOT DATE : 8/31/2016 2:20 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

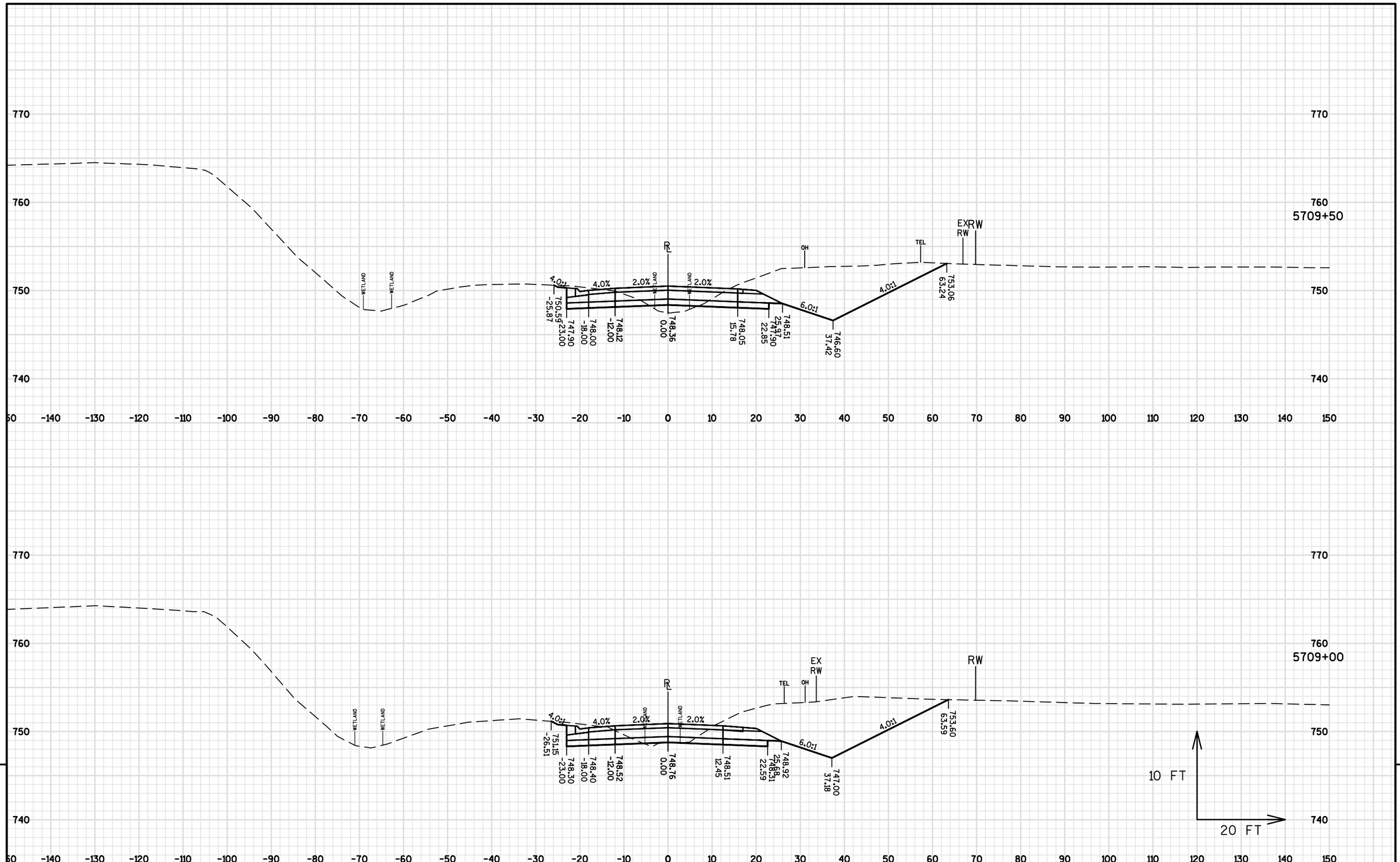


PROJECT NO: 1030-24-77	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 218 E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-EFR.DWG
LAYOUT NAME - 47

PLOT DATE : 8/31/2016 2:20 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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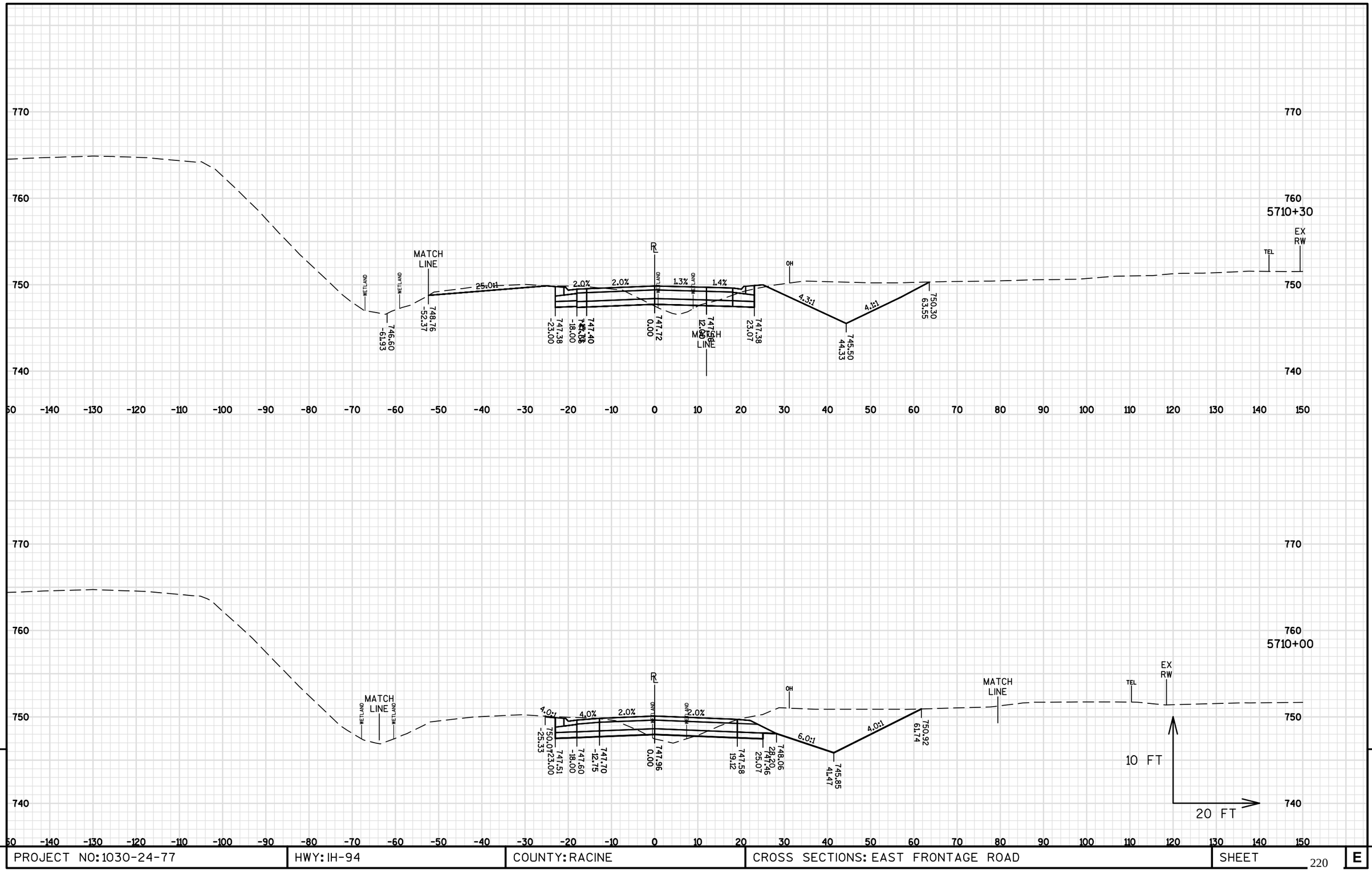
PROJECT NO: 1030-24-77	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 219	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-EFR.DWG
LAYOUT NAME - 48

PLOT DATE : 8/31/2016 2:20 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

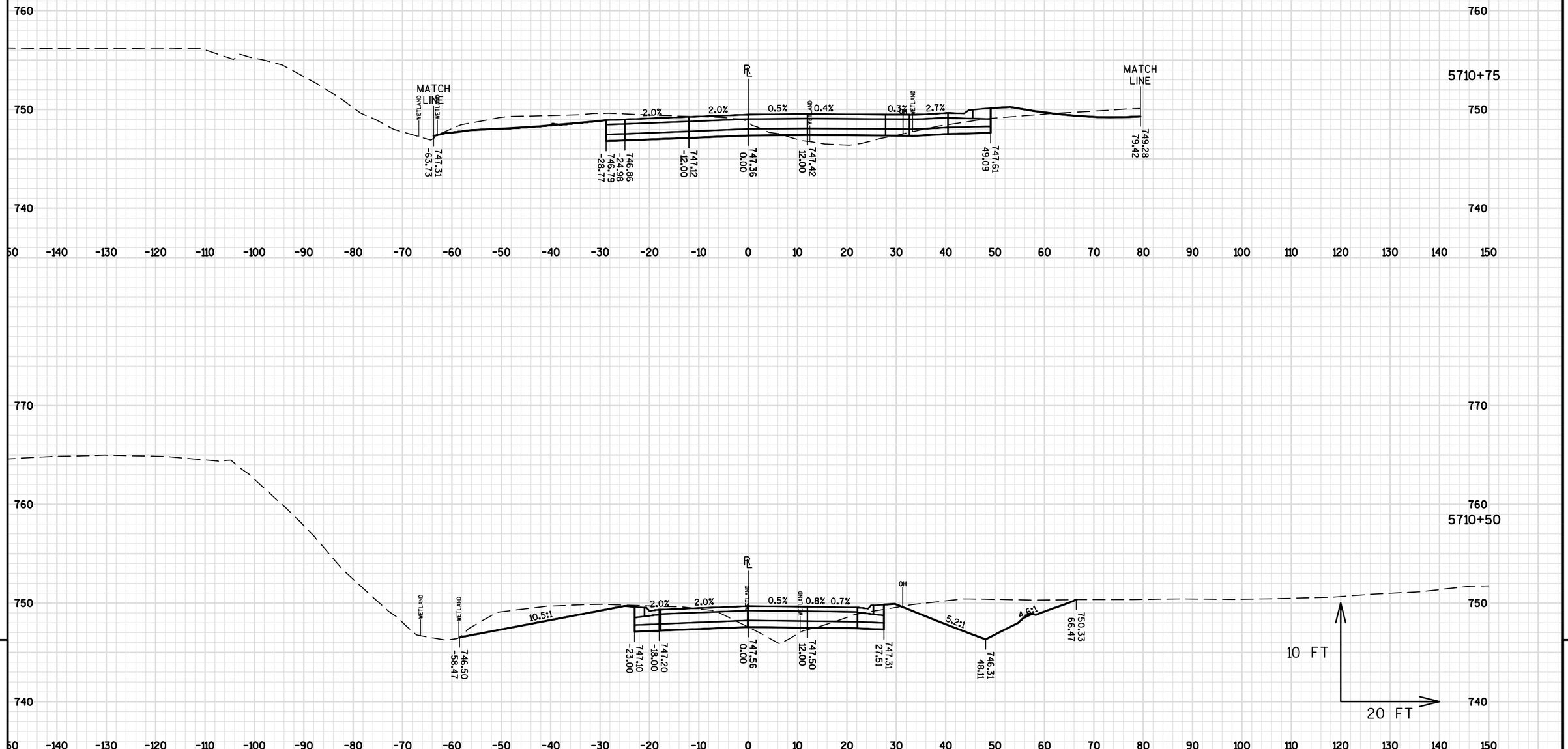


PROJECT NO: 1030-24-77	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-EFR.DWG
LAYOUT NAME - 49

PLOT DATE : 8/31/2016 2:20 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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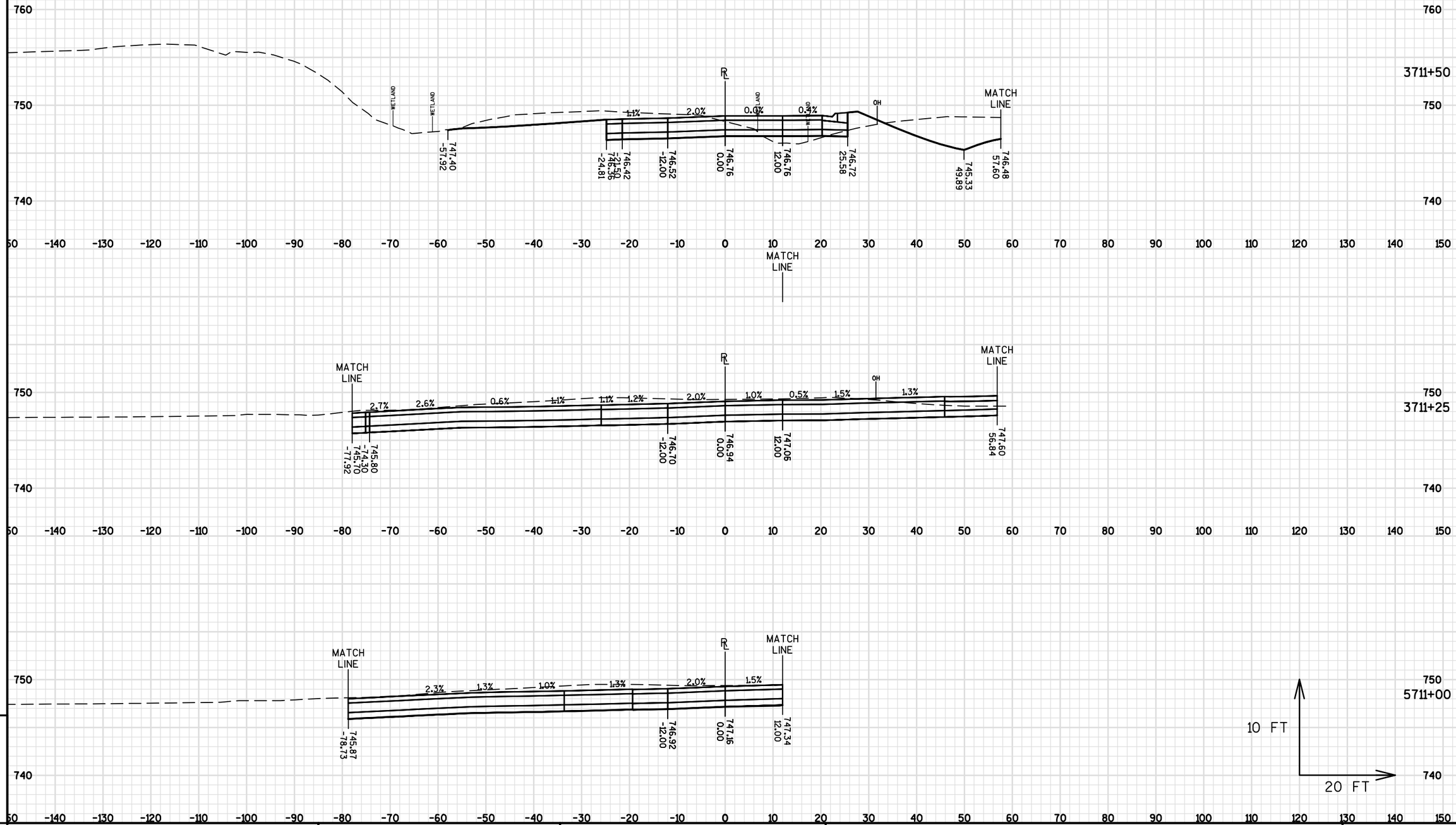
PROJECT NO: 1030-24-77	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 221	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-EFR.DWG
LAYOUT NAME - 50

PLOT DATE : 8/31/2016 2:20 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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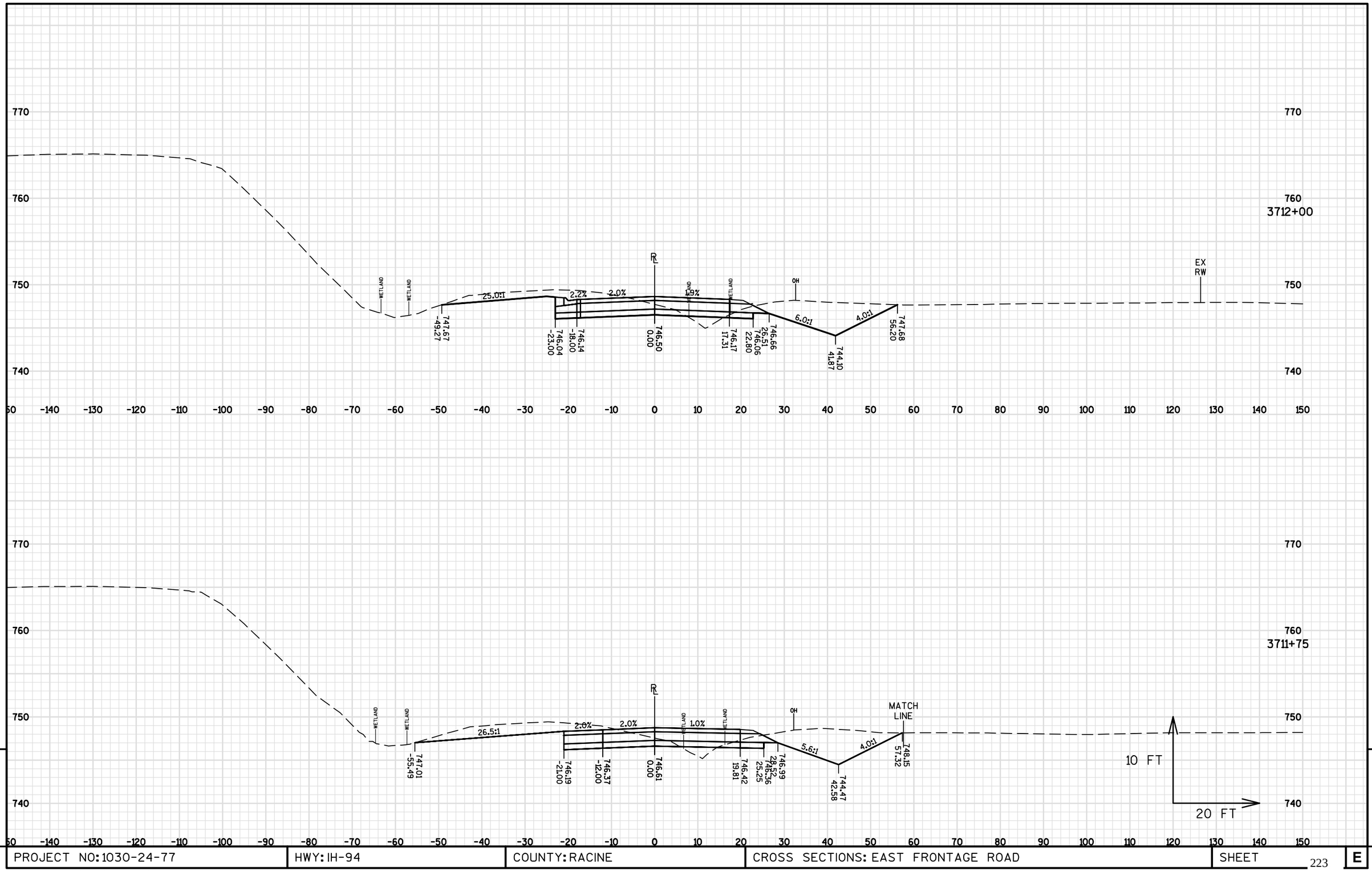
PROJECT NO: 1030-24-77	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 222	E



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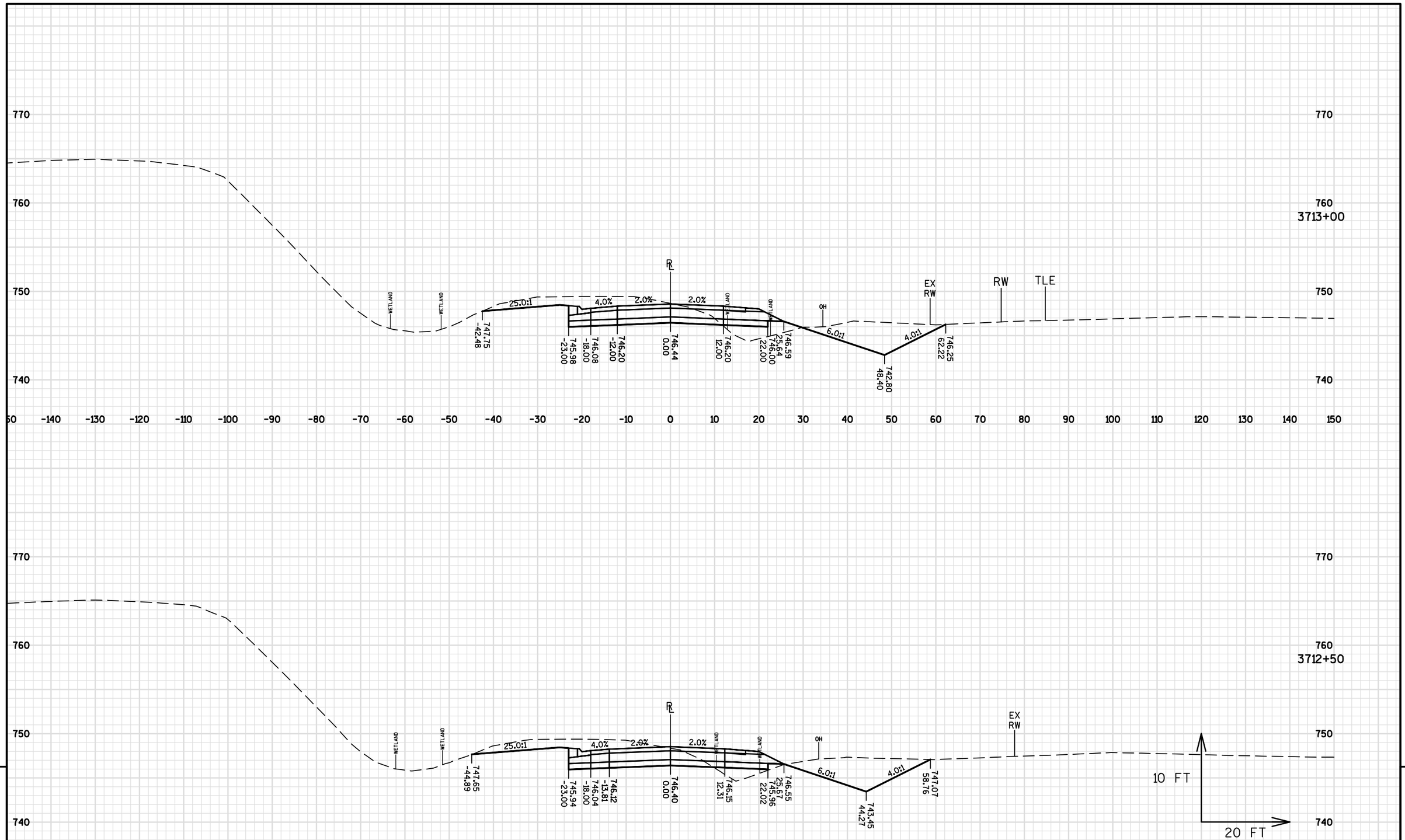
PROJECT NO: 1030-24-77	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 223	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-EFR.DWG
LAYOUT NAME - 52

PLOT DATE : 8/31/2016 2:20 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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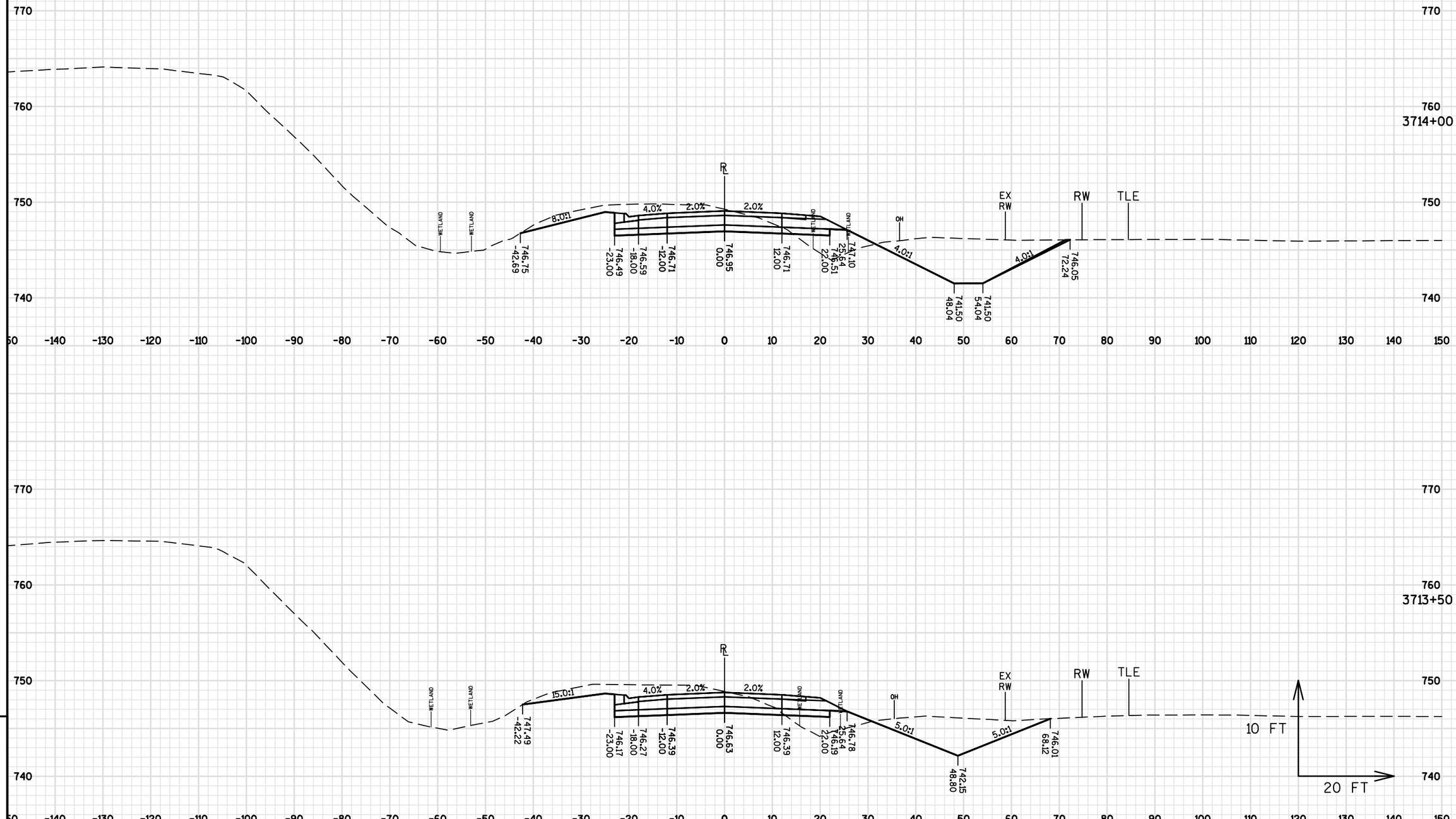
9

PROJECT NO: 1030-24-77	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 224	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-EFR.DWG
LAYOUT NAME - 53

PLOT DATE : 8/31/2016 2:21 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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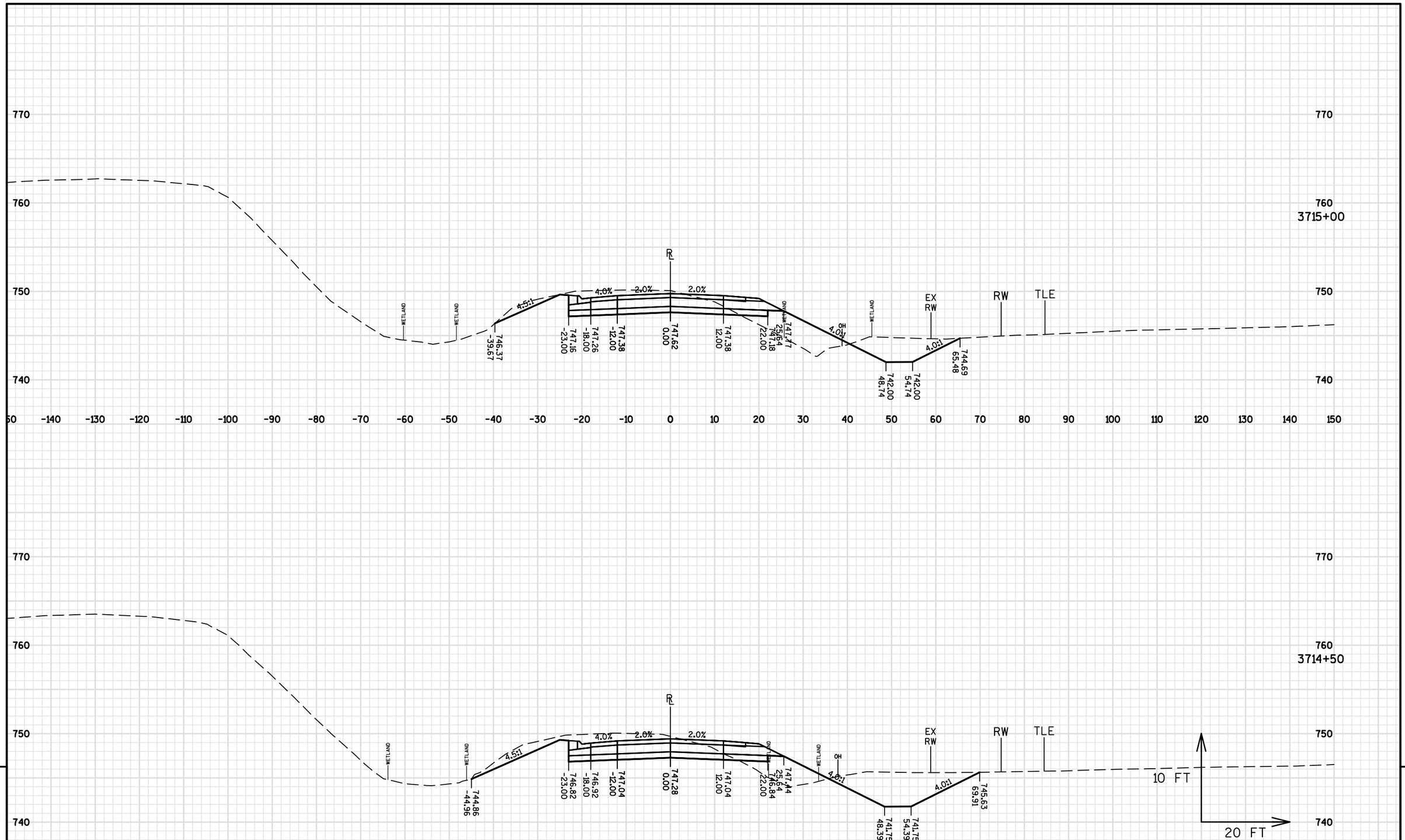
9

PROJECT NO: 1030-24-77	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 225	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-EFR.DWG
LAYOUT NAME - 54

PLOT DATE : 8/31/2016 2:21 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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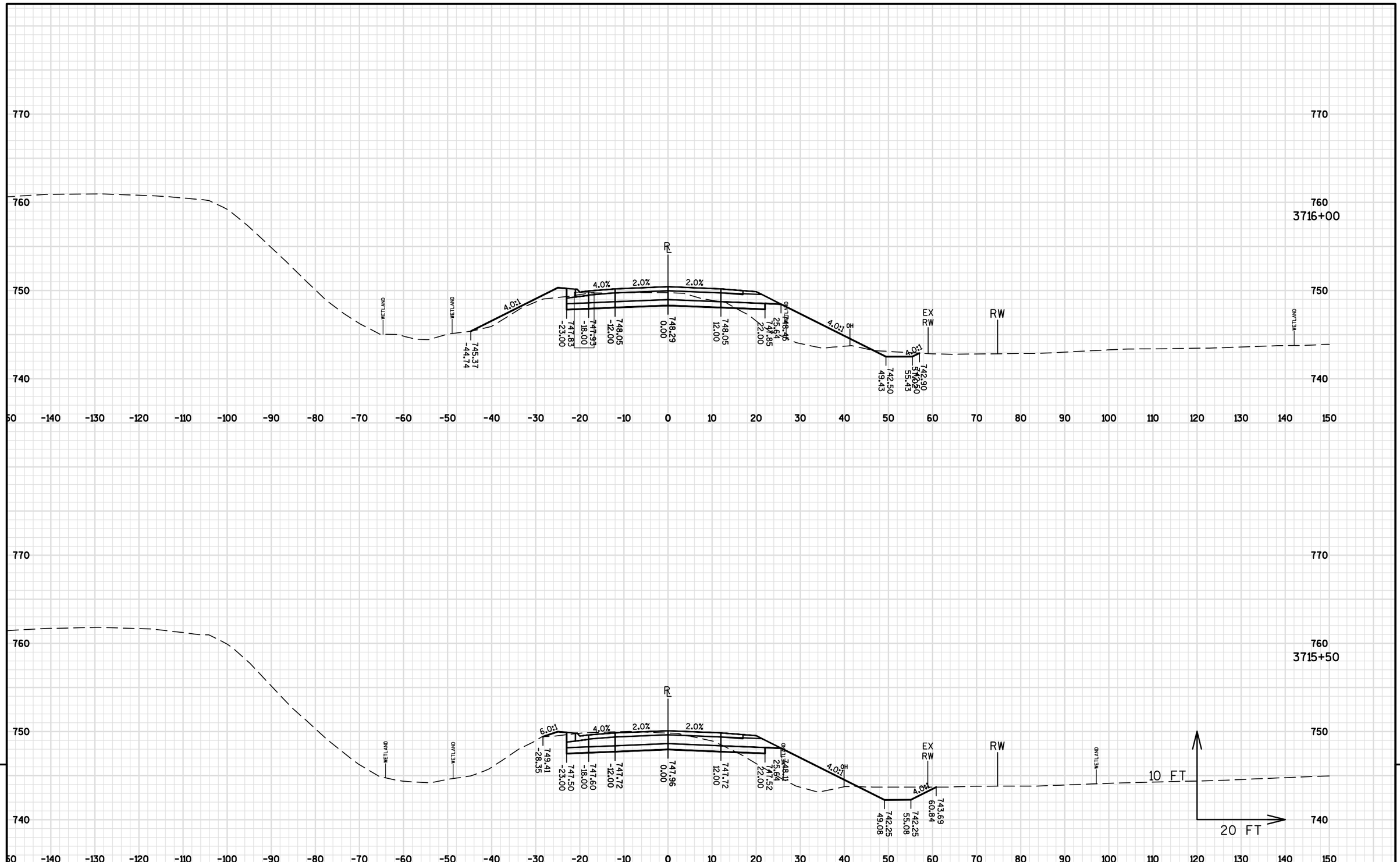
9

PROJECT NO: 1030-24-77	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-EFR.DWG
LAYOUT NAME - 55

PLOT DATE : 8/31/2016 2:21 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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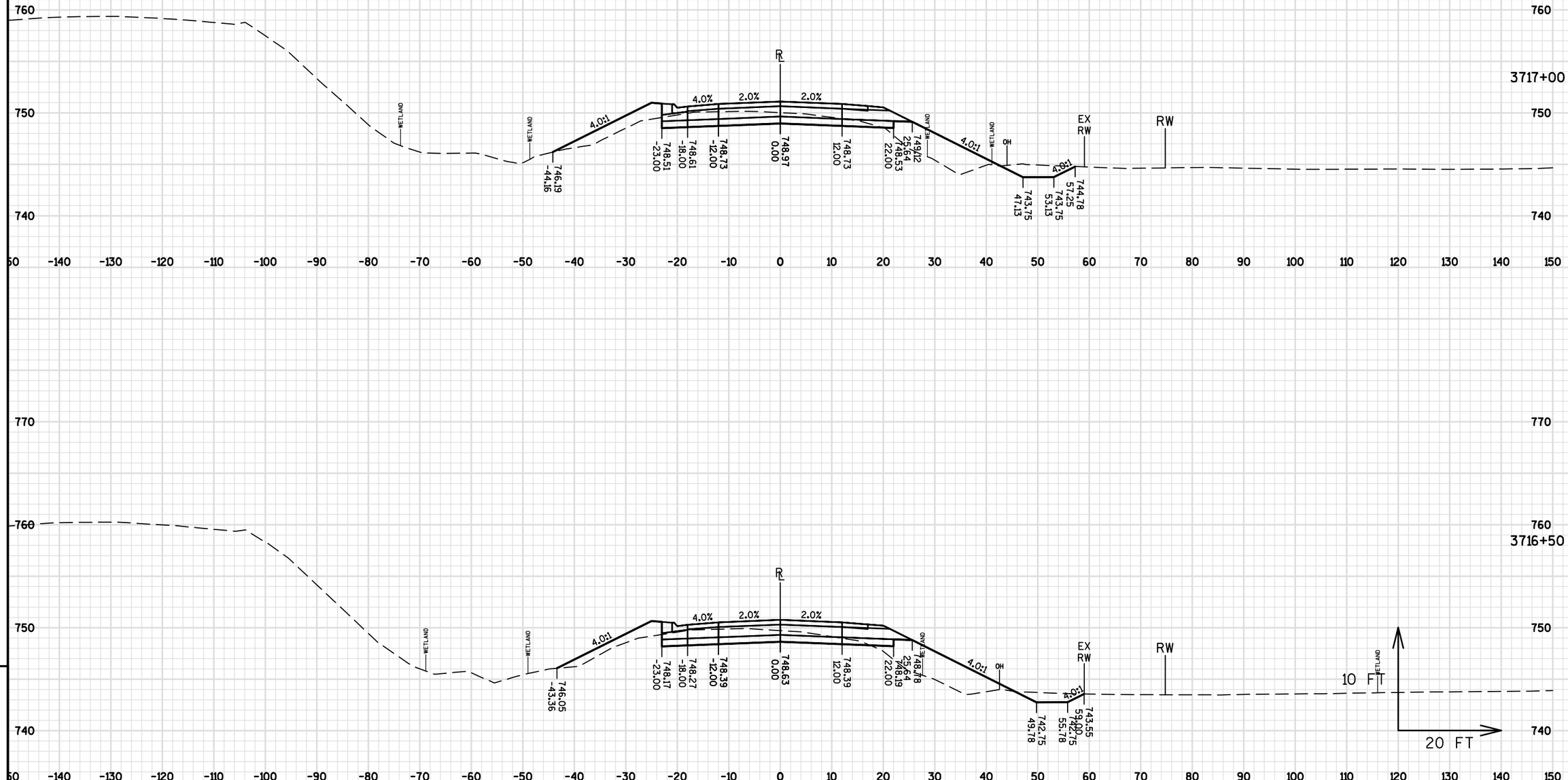
9

PROJECT NO: 1030-24-77	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 227	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-EFR.DWG
LAYOUT NAME - 56

PLOT DATE : 8/31/2016 2:21 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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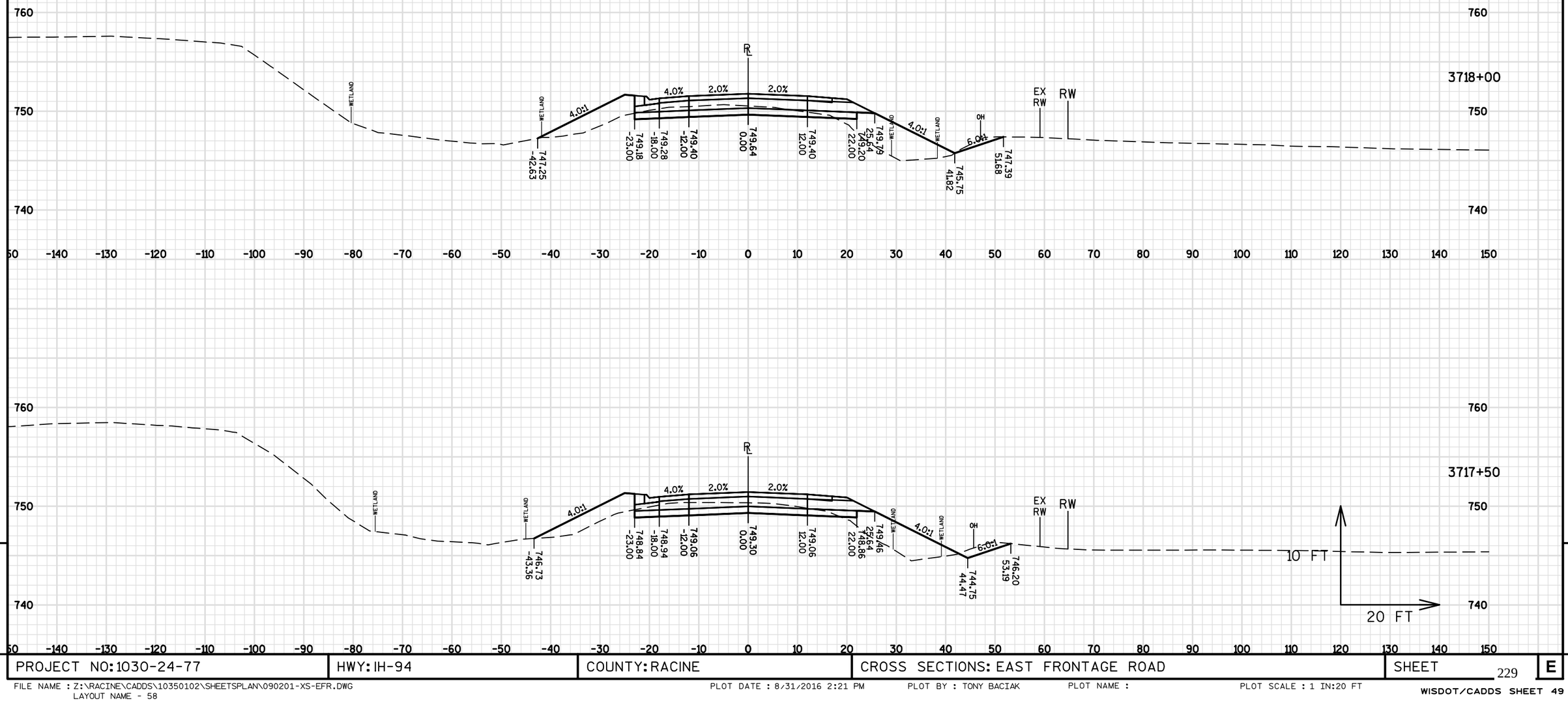
9

PROJECT NO: 1030-24-77	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 228	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-EFR.DWG
LAYOUT NAME - 57

PLOT DATE : 8/31/2016 2:21 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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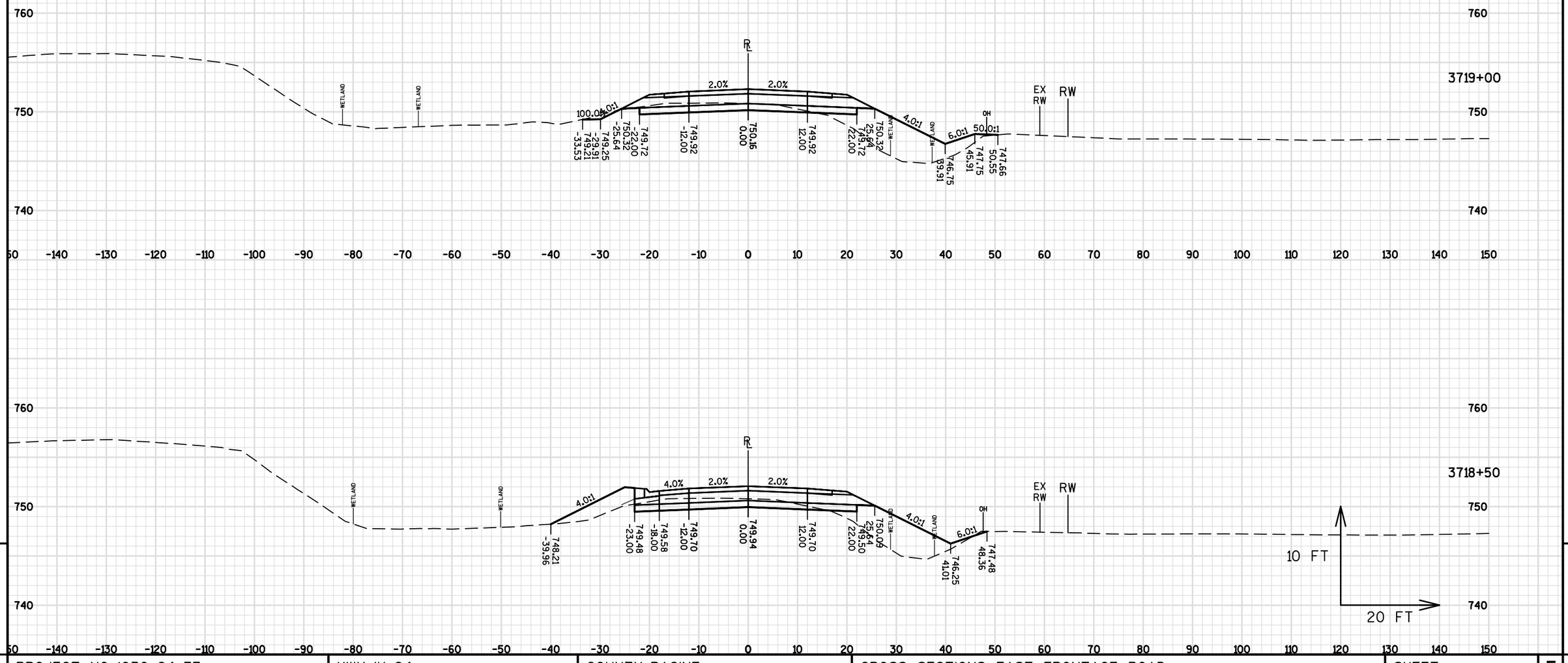
PROJECT NO: 1030-24-77	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 229	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-EFR.DWG
LAYOUT NAME - 58

PLOT DATE : 8/31/2016 2:21 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

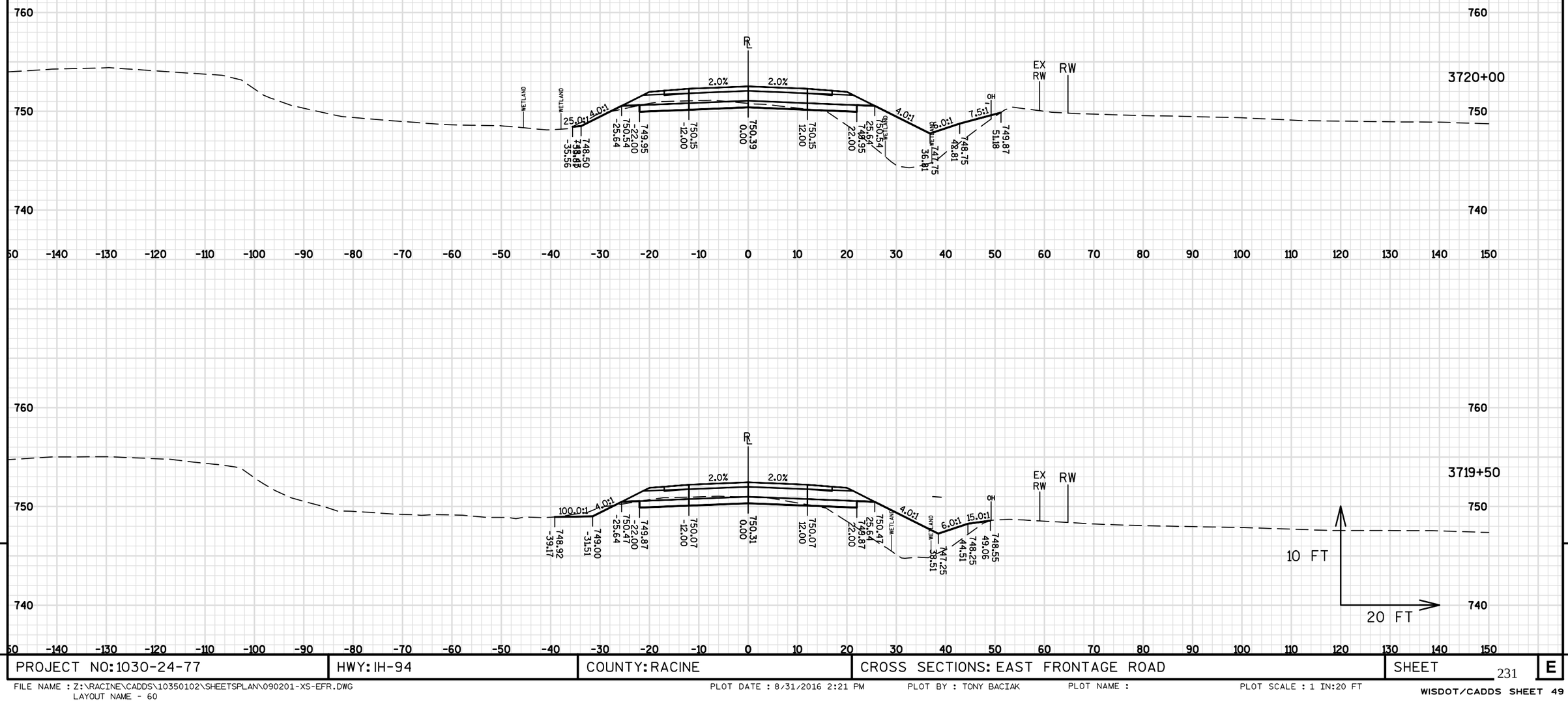


9 9

PROJECT NO: 1030-24-77	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 230 E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-EFR.DWG
LAYOUT NAME - 59

PLOT DATE : 8/31/2016 2:21 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT



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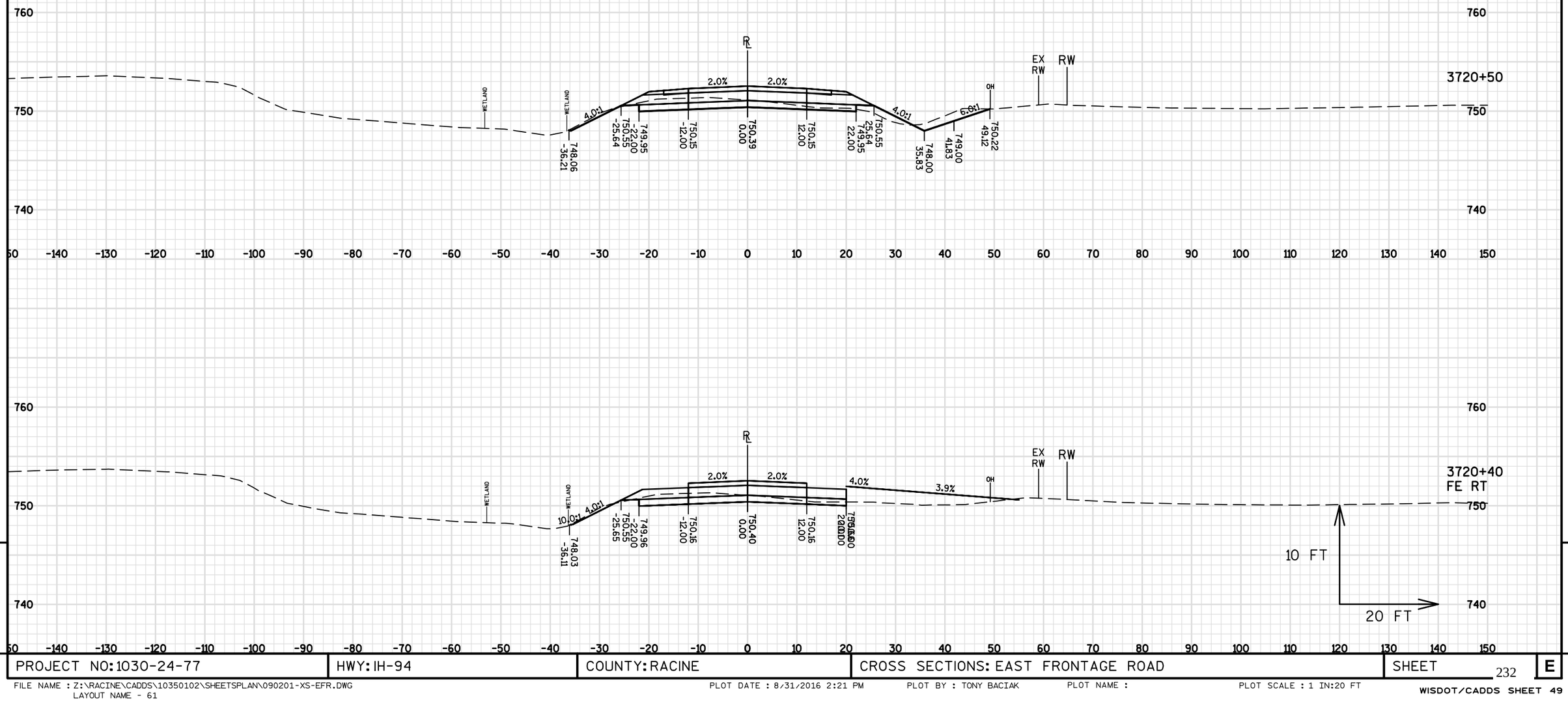
9

PROJECT NO: 1030-24-77	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 231	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-EFR.DWG
LAYOUT NAME - 60

PLOT DATE : 8/31/2016 2:21 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

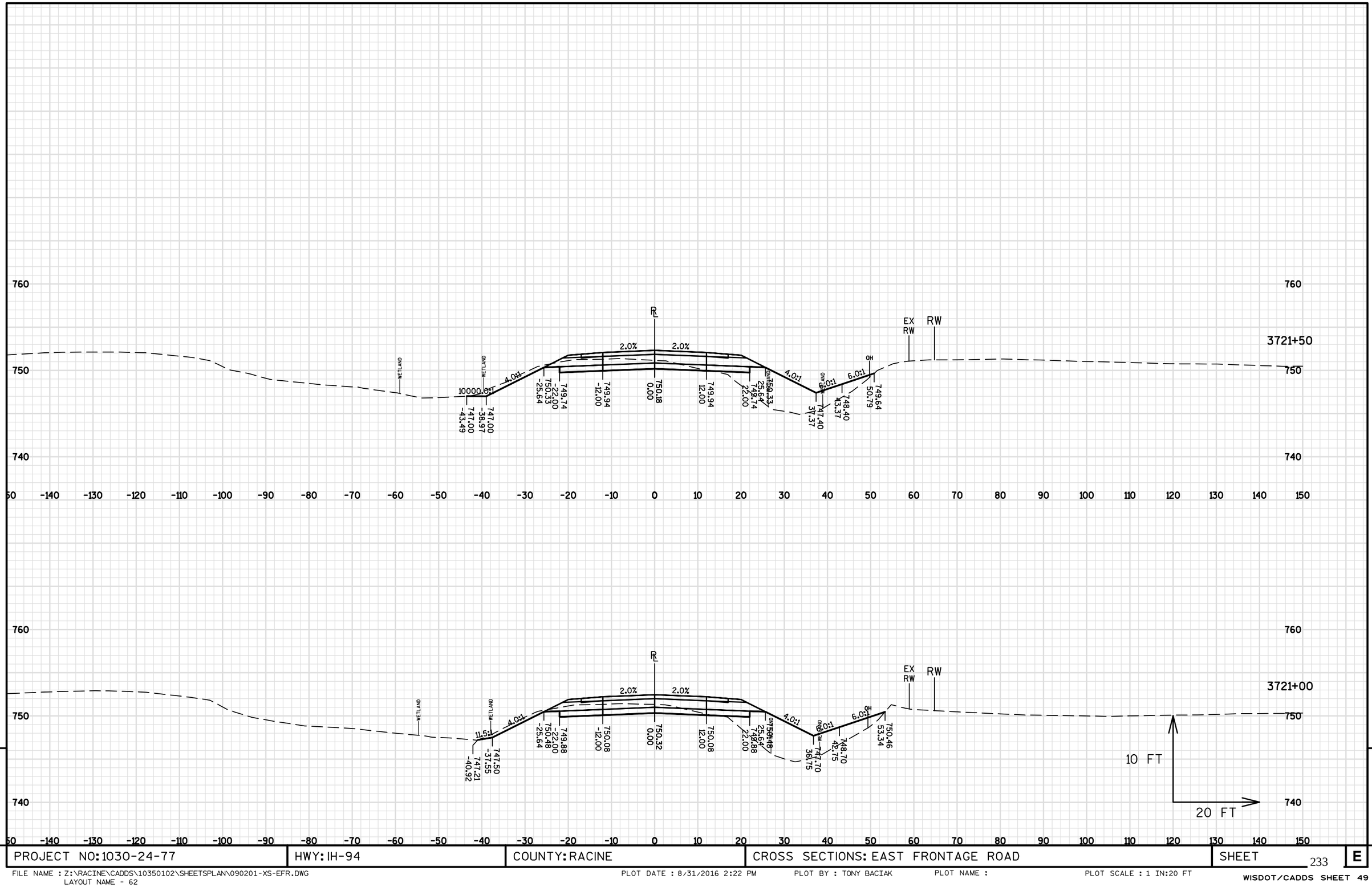


PROJECT NO: 1030-24-77	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 232 E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-EFR.DWG
LAYOUT NAME - 61

PLOT DATE : 8/31/2016 2:21 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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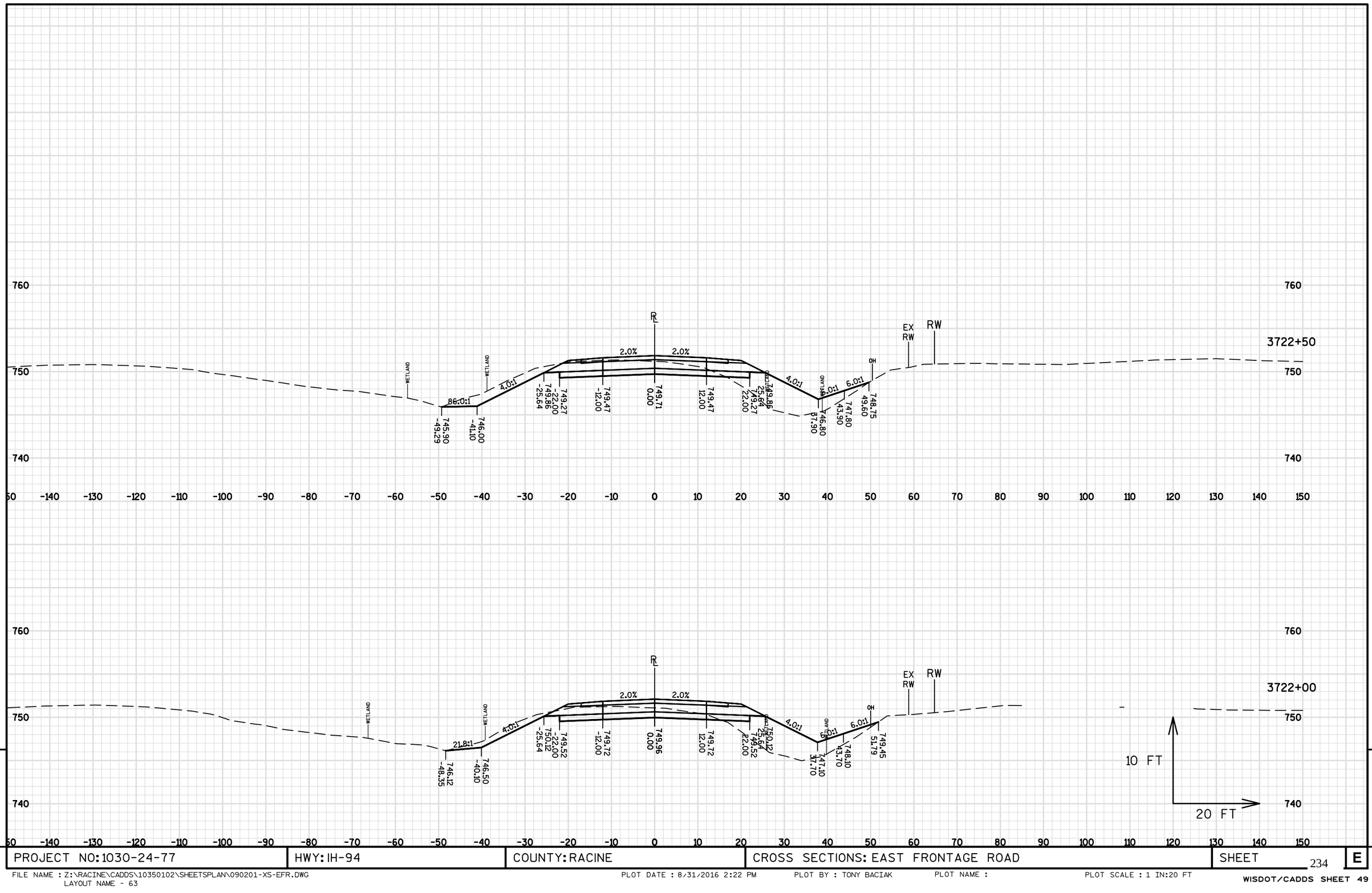
PROJECT NO: 1030-24-77	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 233	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-EFR.DWG
LAYOUT NAME - 62

PLOT DATE : 8/31/2016 2:22 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

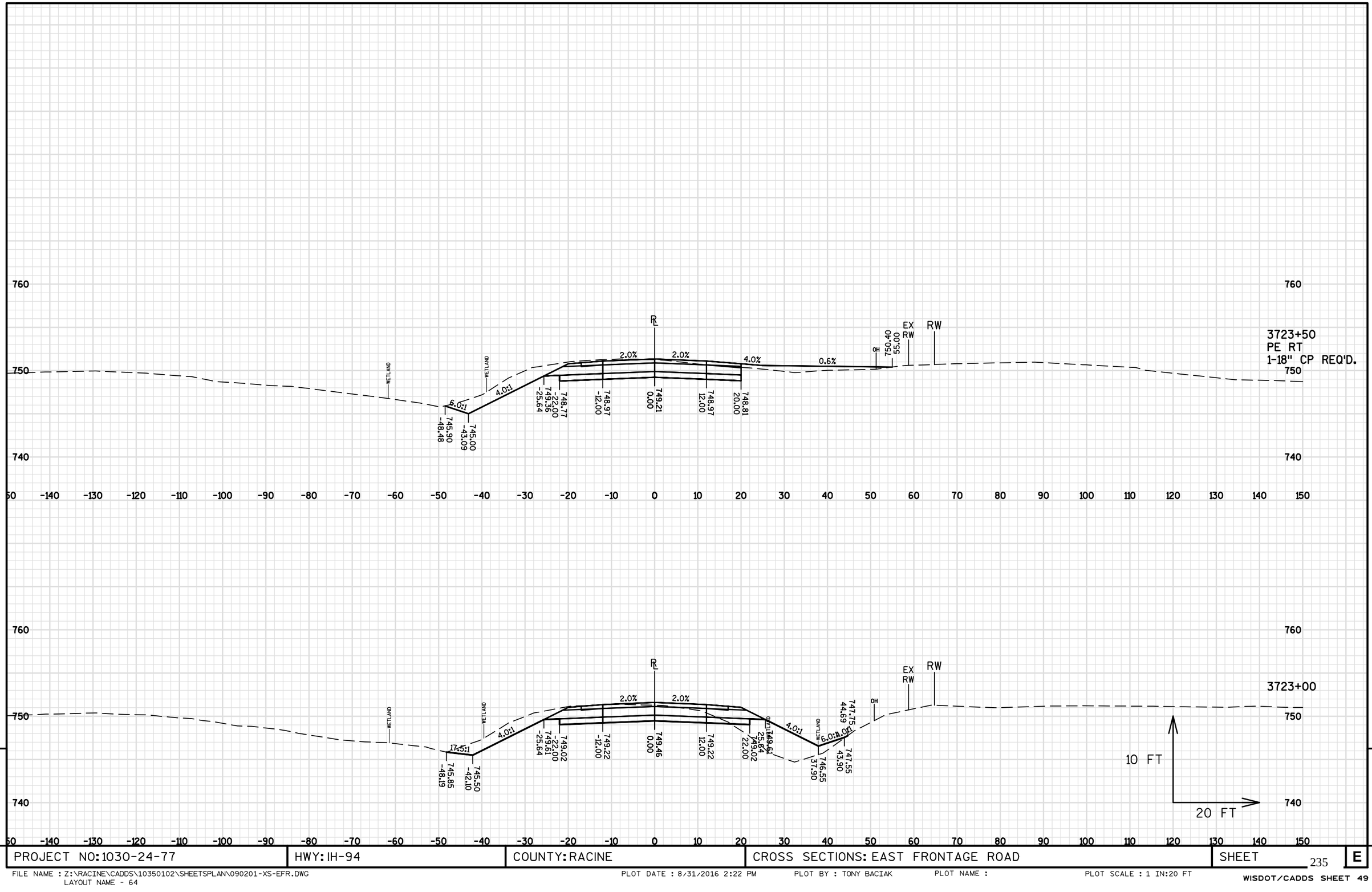


PROJECT NO: 1030-24-77	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 234	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-EFR.DWG
LAYOUT NAME - 63

PLOT DATE : 8/31/2016 2:22 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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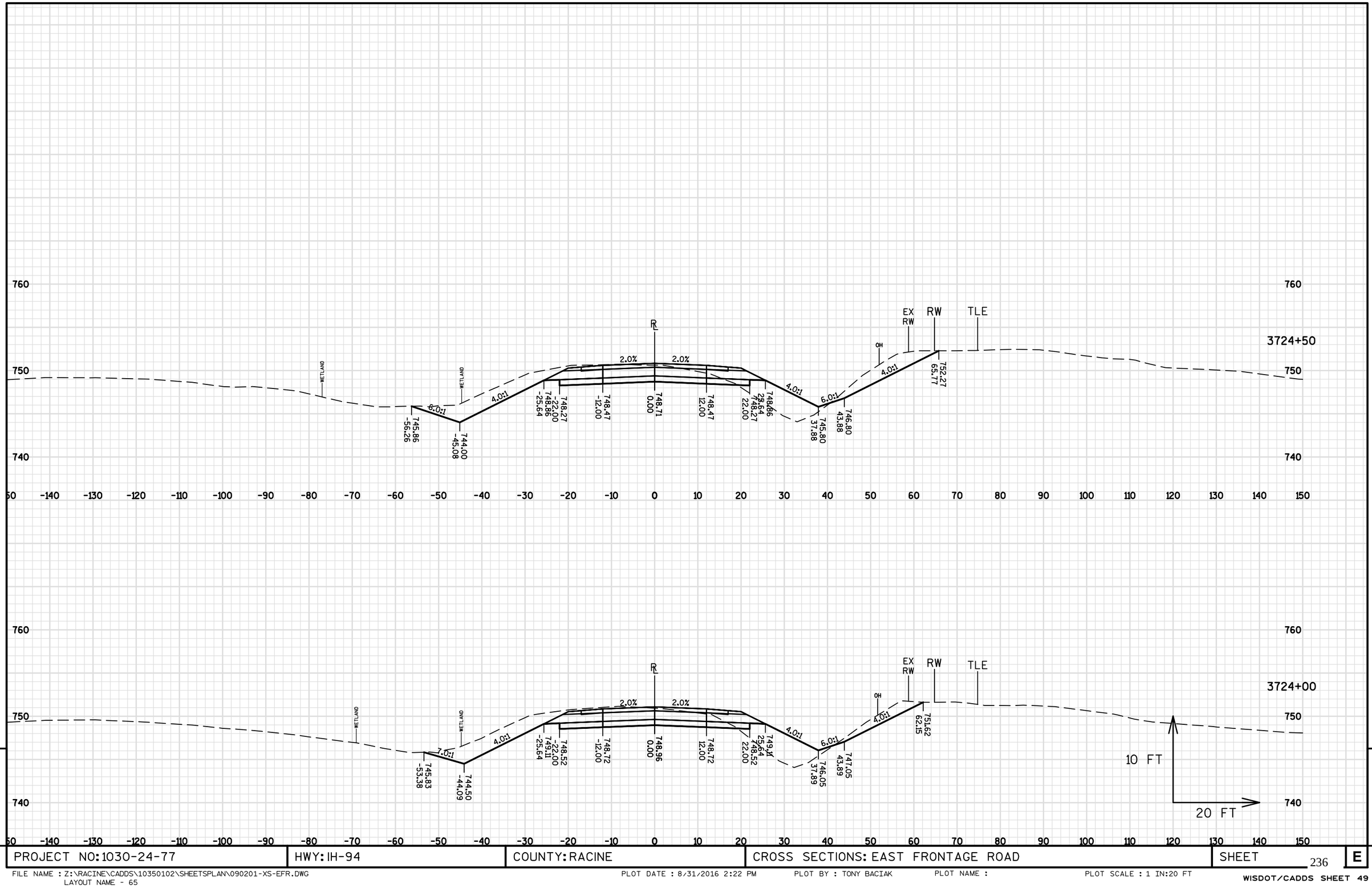
9

PROJECT NO: 1030-24-77	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-EFR.DWG
LAYOUT NAME - 64

PLOT DATE : 8/31/2016 2:22 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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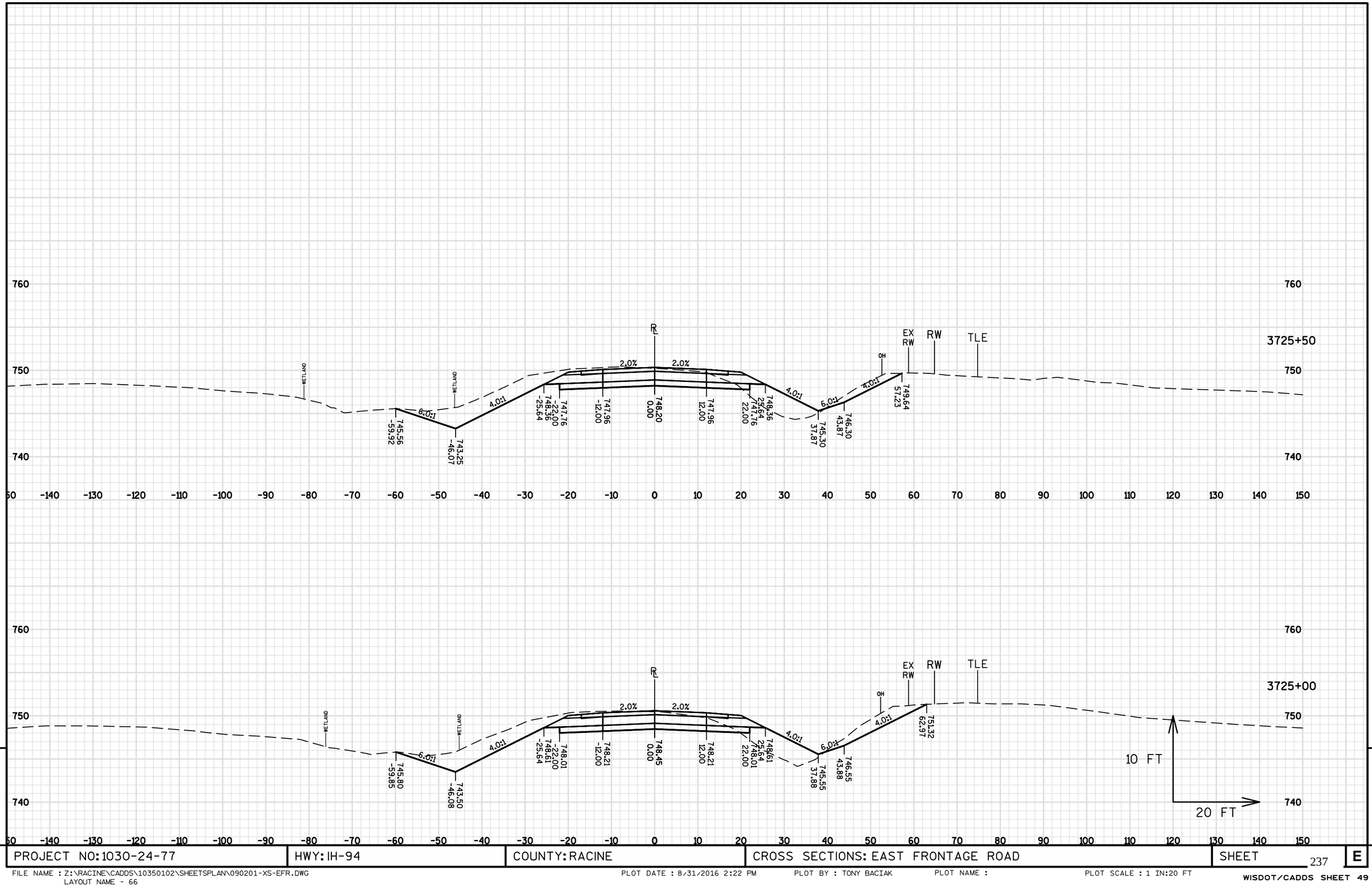
9

PROJECT NO: 1030-24-77	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-EFR.DWG
LAYOUT NAME - 65

PLOT DATE : 8/31/2016 2:22 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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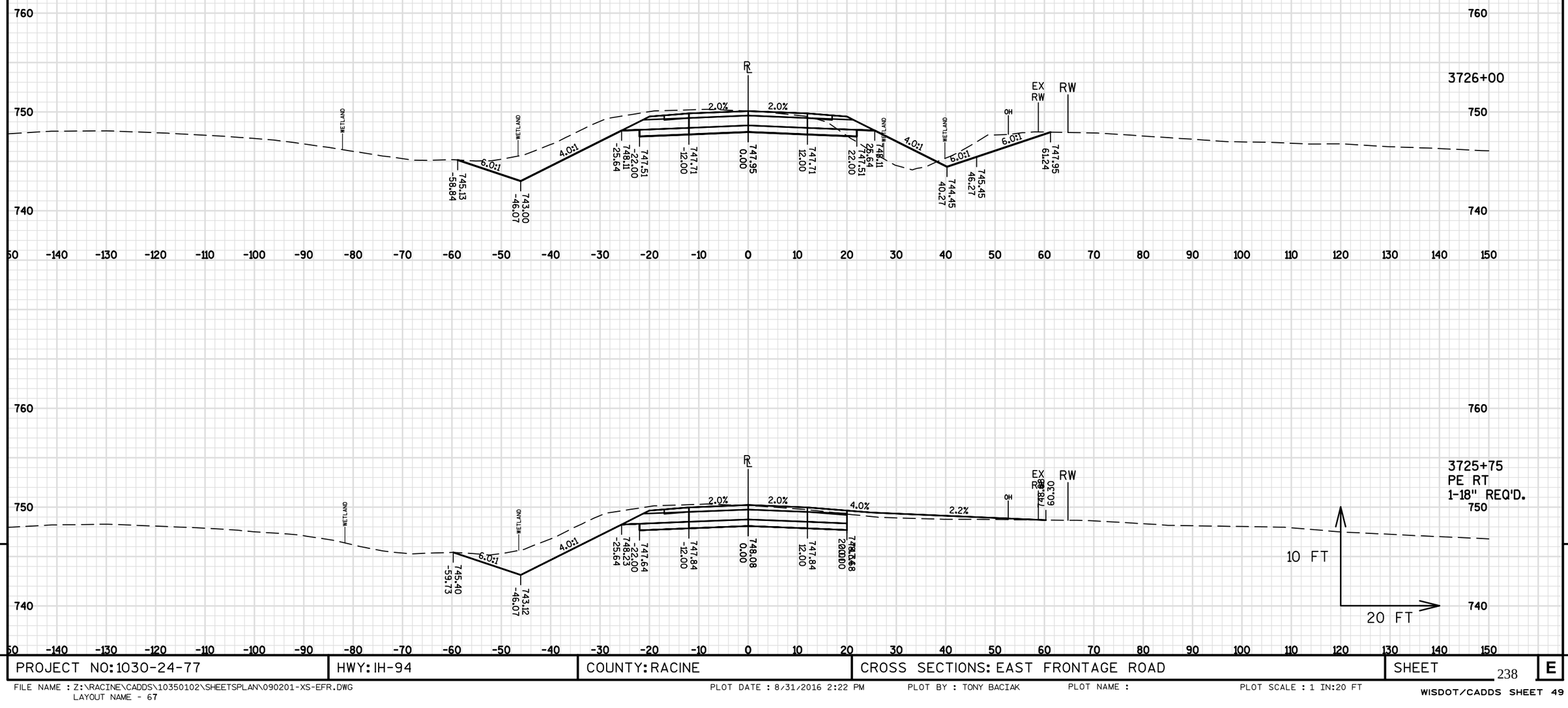
PROJECT NO: 1030-24-77	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-EFR.DWG
LAYOUT NAME - 66

PLOT DATE : 8/31/2016 2:22 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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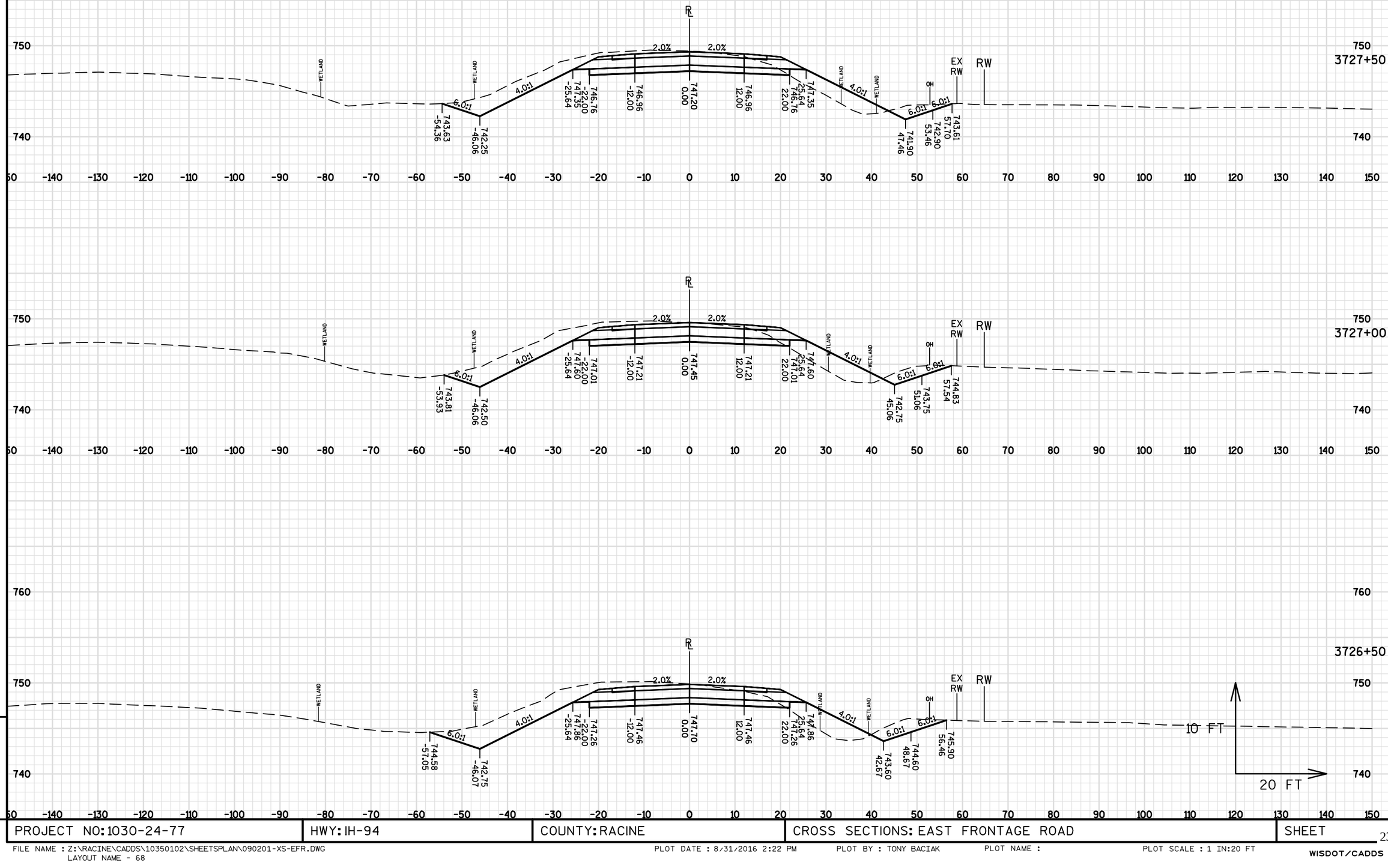
PROJECT NO: 1030-24-77	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 238	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-EFR.DWG
LAYOUT NAME - 67

PLOT DATE : 8/31/2016 2:22 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT



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9

PROJECT NO: 1030-24-77	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 239	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-EFR.DWG
LAYOUT NAME - 68

PLOT DATE : 8/31/2016 2:22 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

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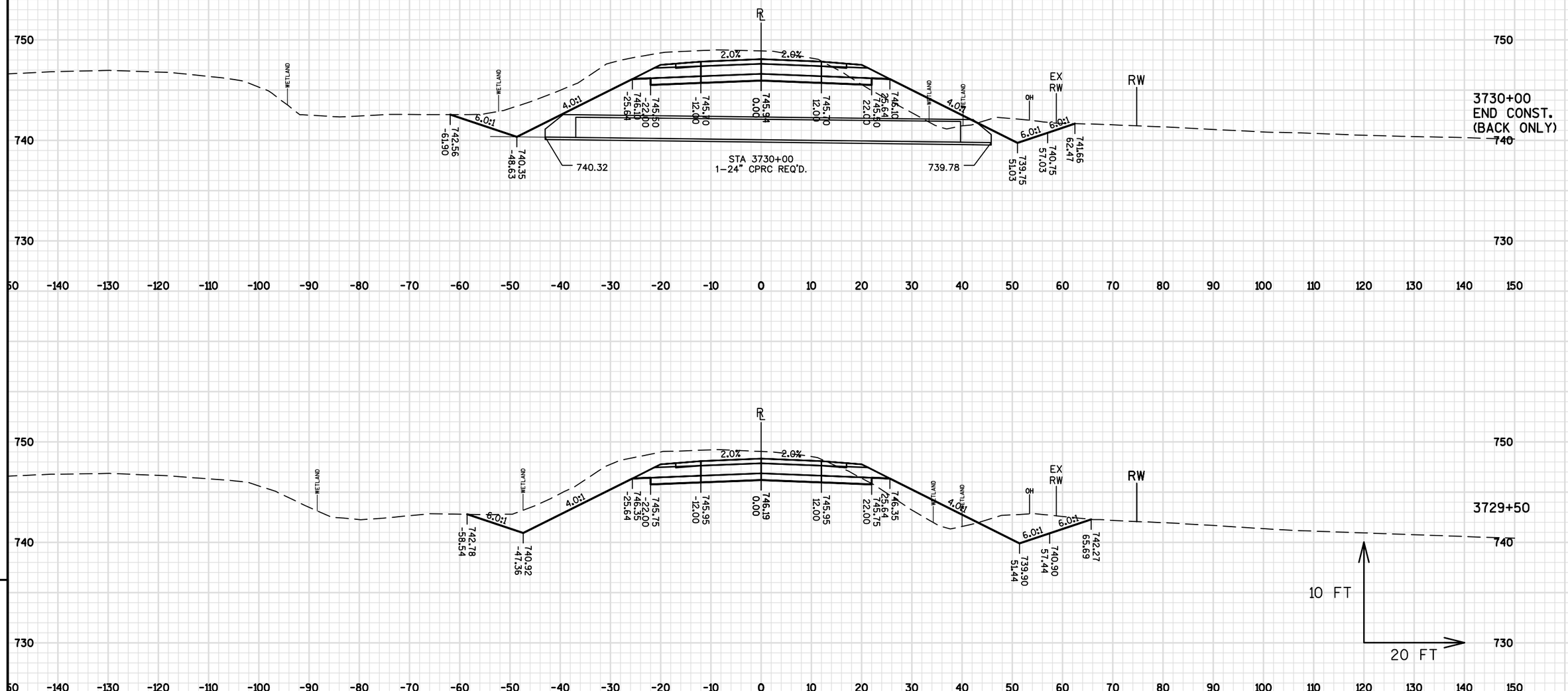
9

PROJECT NO: 1030-24-77	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 240	E

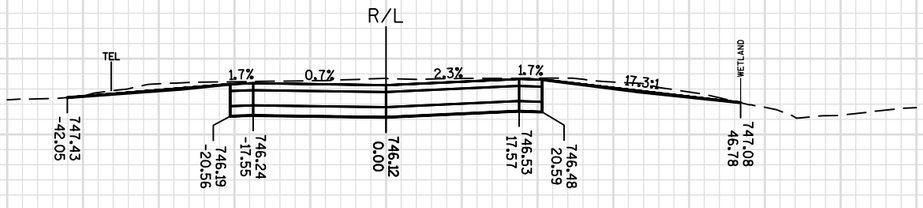
END CONSTRUCTION



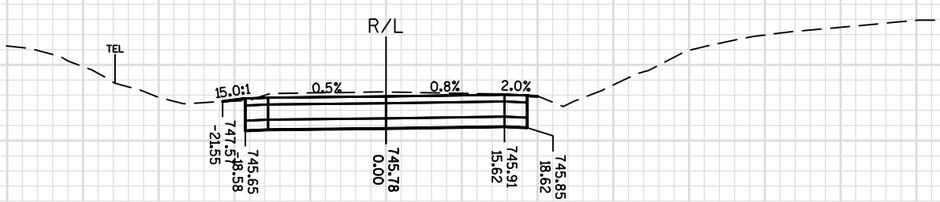
PROJECT NO: 1030-24-77	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 241 E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-EFR.DWG
LAYOUT NAME - 70

PLOT DATE : 8/31/2016 2:22 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

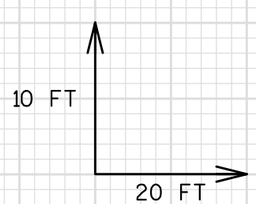


750
740
760
750
740



BEGIN CONSTRUCTION

52+00
BEGIN CONST.
(AHEAD ONLY)



-150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

52+20

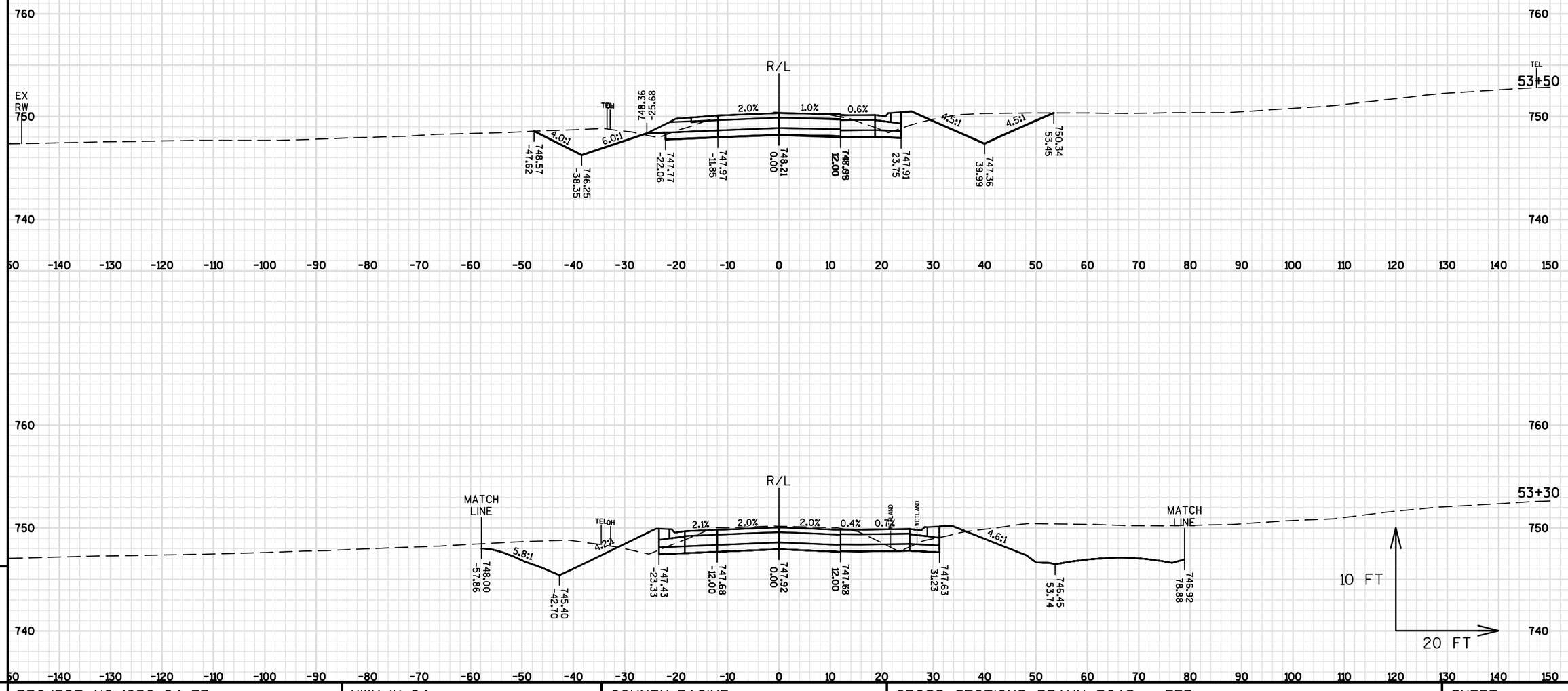
9

PROJECT NO: 1030-24-77	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD - EFR	SHEET	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090202-XS-BRAUN-EFR.DWG
LAYOUT NAME - 01

PLOT DATE : 8/31/2016 2:44 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



9 9

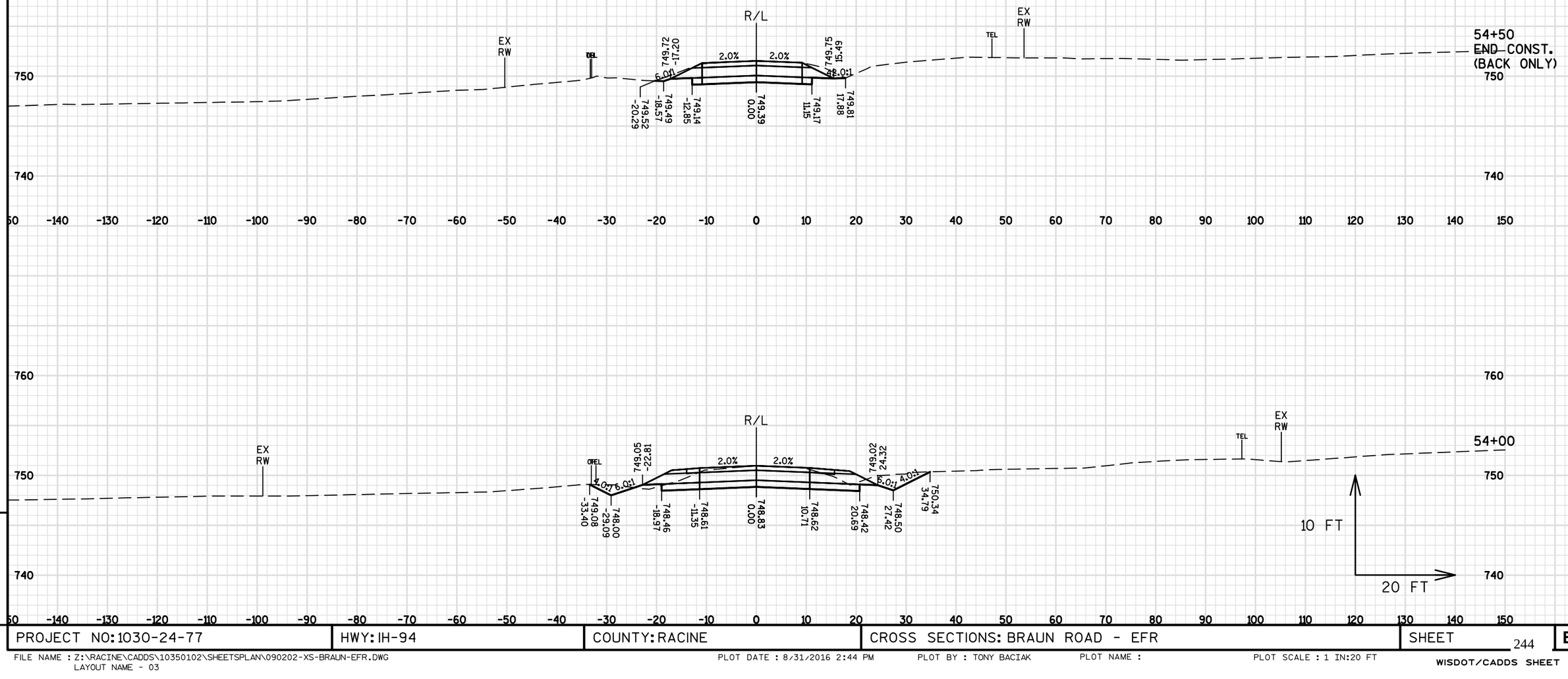
PROJECT NO: 1030-24-77	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD - EFR	SHEET 243 E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090202-XS-BRAUN-EFR.DWG
LAYOUT NAME - 02

PLOT DATE : 8/31/2016 2:44 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

END CONSTRUCTION



PROJECT NO: 1030-24-77	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD - EFR	SHEET 244 E

Notes

Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

http://www.dot.wisconsin.gov

WKE

NOV 2017

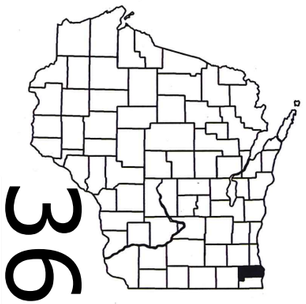
PROJECT ID: 1030-24-78
WITH: 1030-24-70/74/77, 1033-02-77/78

COUNTY: RACINE

ORDER OF SHEETS

Section No.	1	Title
Section No.	2	Typical Sections and Details (Includes Erosion Control Plans)
Section No.	3	Estimate of Quantities
Section No.	3	Miscellaneous Quantities
Section No.	4	Right of Way Plat
Section No.	5	Plan and Profile
Section No.	6	Standard Detail Drawings
Section No.	7	Sign Plates
Section No.	8	Structure Plans
Section No.	9	Computer Earthwork Data
Section No.	9	Cross Sections

TOTAL SHEETS = 254



DESIGN DESIGNATION		WEST FRONTAGE ROAD
A.A.D.T. 2008	=	290
A.A.D.T. 2038	=	330
D.H.V.	=	30
D.D.	=	.59 NB/.41 SB
T.	=	9.8%
DESIGN SPEED	=	60MPH
ESALS	=	1,138,800

CONVENTIONAL SYMBOLS

PLAN

- CORPORATE LIMITS
- PROPERTY LINE
- LOT LINE
- LIMITED HIGHWAY EASEMENT
- EXISTING RIGHT OF WAY
- PROPOSED OR NEW R/W LINE
- SLOPE INTERCEPT
- REFERENCE LINE
- EXISTING CULVERT
- PROPOSED CULVERT (Box or Pipe)
- COMBUSTIBLE FLUIDS (CAUTION)
- MARSH AREA
- WOODED OR SHRUB AREA

PROFILE

- GRADE LINE
- ORIGINAL GROUND
- MARSH OR ROCK PROFILE (To be noted as such) (ROCK)
- SPECIAL DITCH (LABEL)
- GRADE ELEVATION (95.36)
- CULVERT (Profile View)

UTILITIES

- ELECTRIC (E)
- FIBER OPTIC (FO)
- GAS (G)
- SANITARY SEWER (SAN)
- STORM SEWER (SS)
- TELEPHONE (T)
- WATER (W)
- UTILITY PEDESTAL
- POWER POLE
- TELEPHONE POLE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

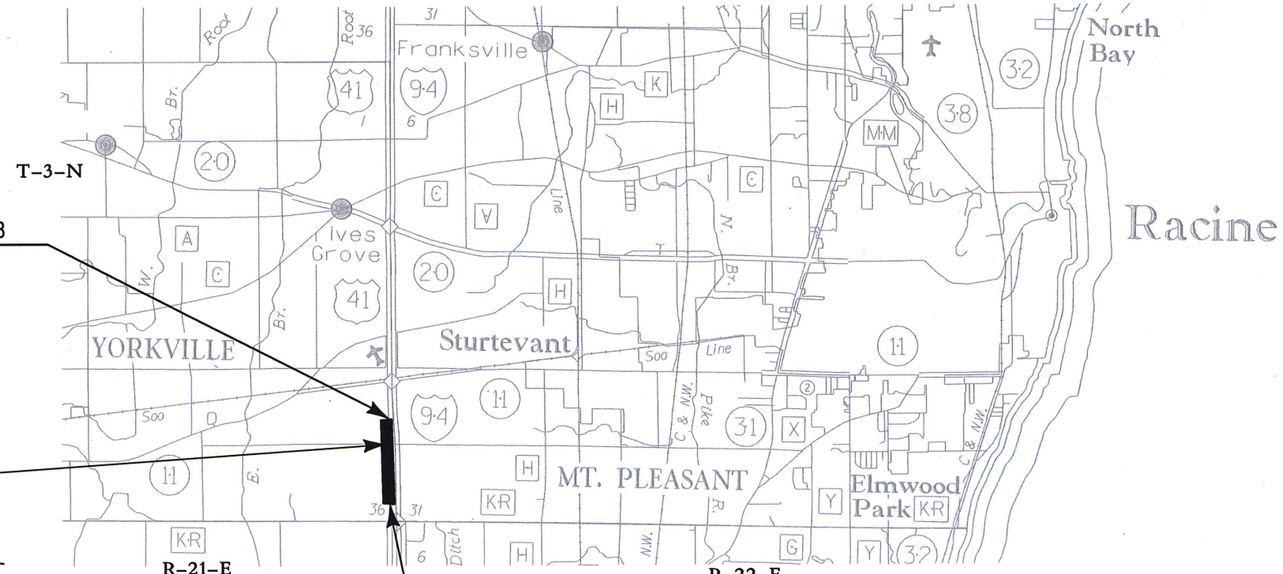
PLAN OF PROPOSED IMPROVEMENT

N-S FREEWAY CTH KR TO STH 11

WEST FRONTAGE ROAD
IH 94
RACINE COUNTY

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1030-24-78	WISC 2017610	1

STATE PROJECT NUMBER
1030-24-78



END PROJECT 1030-24-78
STA. 2737+00.00

STATION EQUATION
STA. 4711+25.94 BACK=
STA. 2711+35.24 AHEAD

BEGIN PROJECT 1030-24-78
STA. 4680+00.00
Y = 167273.93
X = 594142.97

LAYOUT
SCALE 0 1 MI.

TOTAL NET LENGTH OF CENTERLINE = 1.078 MI.

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), RACINE COUNTY, NAD 1983(97)

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988(91) (NAVD 88(91)).

ORIGINAL PLANS PREPARED BY

DAAR ENGINEERING, INC.
www.daarengineering.com
Milwaukee, WI 53212
414-225-9817

WISCONSIN PROFESSIONAL ENGINEER
ANDREW J. SMIEJA
E-31137
WAUKESHA, WI

8/1/17 (Date) (Signature)

ORIGINAL PLANS PREPARED BY

emcs inc
1300 W. Canal Street, Suite 200
Milwaukee, WI 53233
414.347.1607 Fax 414.347.1347

WISCONSIN PROFESSIONAL ENGINEER
BRIAN J. WILSON
E-34330-6
MILWAUKEE WI

8/1/17 (Date) (Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY	
Surveyor	WISDOT/EMCS
Designer	EMCS/DAAR
Project Manager	FRANK PRITZLAFF
Regional Examiner	
Regional Supervisor	WAFA ELOAO
C.O. Examiner	

APPROVED FOR THE DEPARTMENT
DATE: 7/31/17 (Signature)

E

UTILITY CONTACTS

AT&T CORPORATION
C/O MR. KEN NINE
JMC ENGINEERS & ASSOCIATES, INC.
110 NORTH MAIN STREET
CULVER, IN 46511
PHONE: (574) 842-8830
CELL: (574) 904-6336
kennethnine@att.net

AT&T WISCONSIN
MR. MARK EDER
2005 PEWAUKEE RD
WAUKESHA, WI 53188
PHONE: (262) 896-7434
me1754@att.com

CHARTER COMMUNICATIONS
MR. STEVE CRAMER
1320 N. MARTIN LUTHER KING JR. DRIVE
MILWAUKEE, WI 53212
PHONE: (414) 277-4045
CELL: (414) 688-2385
steve.cramer@charter.com
wis.engineering@charter.com

LEVEL 3 COMMUNICATIONS
MR. BRAHIM GADDOUR
OSP ENGINEERING DEPT.
3235 INTERTECH DRIVE, SUITE 600
BROOKFIELD, WI 53045
PHONE: (414) 908-1027
CELL: (414) 704-1026
gaddour.brahim@level3.com
relo@level3 com

WE ENERGIES - ELECTRIC
SEND ALL CORRESPONDENCE TO:
MR. LATROY BRUMFIELD
333 W. EVERETT STREET - A299
MILWAUKEE, WI 53203
PHONE: (414) 221-5617
latroy.brumfield@we-energies.com

CONSTRUCTION FIELD CONTACT:
MR. DAN TOOMEY
500 S. 116TH STREET
WEST ALLIS, WI 53214
PHONE: (414) 944-5695
dan.toomey@we-energies.com

WISDOT STOC
MR. JEFFREY MADSON
433 W ST. PAUL AVE, SUITE 300
MILWAUKEE, WI 53203
PHONE: (414) 225-3723
jeffrey.madson@dot.wi.gov

ORDER OF SECTION 2 DETAIL SHEETS

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
REMOVALS
PLAN DETAILS
EROSION CONTROL
STORM SEWER
EXISTING AND PERMANENT SIGNING
PAVEMENT MARKING
TRAFFIC CONTROL & STAGING
FENCING
ALIGNMENT LAYOUT

STATE AGENCIES

WISCONSIN DEPARTMENT OF TRANSPORTATION
MS. LACIKAZAN - ENVIRONMENTAL ANALYST
AND REVIEW SPECIALIST
141 NW BARSTOW STREET
WAUKESHA, WI 53187-0798
CELL: (414) 322-1429
laci.kazan@dot.wi.gov

WISCONSIN DEPARTMENT OF TRANSPORTATION
MR. GREG BERRY - UTILITY COORDINATOR
141 NW BARSTOW STREET
WAUKESHA, WI 53187-0798
CELL: (414) 750-7828
gregory.berry@dot.wi.gov

WISCONSIN DEPARTMENT OF NATURAL RESOURCES
MS. KRISTINA BETZHOLD
ENVIRONMENTAL ANALYST AND REVIEW SPECIALIST
2300 N. DR. MARTIN LUTER KING JR. DRIVE
MILWAUKEE, WI 53212
PHONE: (414) 507-4946
KRISTINA.BETZHOLD@WISCONSIN.GOV

WISCONSIN DEPARTMENT OF TRANSPORTATION
MR. FRANK PRITZLAFF - PROJECT MANAGER
141 NW BARSTOW STREET
WAUKESHA, WI 53187-0798
PHONE: (262) 548-5683
frank.pritzlaff@dot.wi.gov

OTHER AGENCIES

VILLAGE OF MOUNT PLEASANT
MR. MARK BENISH
8700 CAMPUS DRIVE
MOUNT PLEASANT, WI 53406
PHONE: (262) 664-7844
mbenish@mtpleasantwi.gov

TOWN OF YORKVILLE
MR. MICHAEL MCKINNEY
925 15TH AVENUE
UNION GROVE, WI 53182
PHONE: (262) 878-2123
michael@townofyorkville.com

RACINE COUNTY DPW
MR. NATHAN PLUNKETT
14200 WASHINGTON AVE
STURTEVANT, WI 53177
PHONE: (262) 886-8442
nathan.plunkett@racinecounty.com

SOUTHEASTERN WISCONSIN REGIONAL PLANNING COMMISSION
MR. JOHN WASHBURN
W239 N1812 ROCKWOOD DRIVE
P.O. BOX 1607
WAUKESHA, WI 53187-1607
PHONE: (262) 953-4295
jwashburn@sewrpc.org

TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN

WIS. STATUTE 182.0175 (1974) REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE.

DIGGERS HOTLINE

Call 811 3 Work Days Before You Dig
or Toll Free (800) 242-8511
Hearing Impaired TDD (800) 542-2289
www.DiggersHotline.com

2

GENERAL NOTES

NO TREES OR SHRUBS SHALL BE REMOVED WITHOUT APPROVAL OF THE ENGINEER.

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE AND AFFECTED UTILITIES PRIOR TO THE START OF WORK. ANY LOCAL MUNICIPAL UTILITY WHICH IS NOT A MEMBER OF THE DIGGERS HOTLINE MUST BE CONTACTED SEPARATELY.

ALL HOLES OR OPENINGS BELOW SUBGRADE RESULTING FROM ABANDONMENT OR REMOVAL OF EXISTING STRUCTURES SHALL BE FILLED WITH GRANULAR BACKFILL.

WHEN THE QUANTITY OF HMA PAVEMENT OR BASE AGGREGATE IS MEASURED FOR PAYMENT BY THE TON, THE DEPTH OR THICKNESS OF THE LAYER SHOWN ON THE PLAN IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.

INLET AND DISCHARGE ELEVATIONS FOR DRAINAGE STRUCTURES SHOWN ON THE PLAN MAY BE ADJUSTED BY THE ENGINEER TO FIT FIELD CONDITIONS.

CURB AND GUTTER GRADES ARE GIVEN TO THE FLANGE. CURB AND GUTTER RADII ARE MEASURED TO THE FLANGE.

EXISTING DRIVEWAYS AND FIELD ENTRANCES SHALL BE RESTORED IN KIND AS DIRECTED BY THE ENGINEER IN THE FIELD AND AT THE LOCATION DETERMINED BY THE ENGINEER.

BROKEN CONCRETE CONTAINING RE-BAR SHALL NOT BE USED AS RIPRAP OR HEAVY RIPRAP.

CROSS SECTIONS SHOWN INCLUDE THE THICKNESS OF TOPSOIL WHERE REQUIRED. TOPSOIL SHALL BE REPLACED WITH 4-INCH TYPICAL DEPTH.

A SAWED JOINT IS REQUIRED WHERE NEW HMA PAVEMENT MEETS EXISTING ASPHALTIC CONCRETE SURFACE.

USE EROSION MAT CLASS I TYPE B ADJACENT TO DISTURBED AREAS NEXT TO WETLANDS. DO NOT INSTALL EROSION MAT CLASS I TYPE B IN WATER.

PRIOR TO ORDERING DRAINAGE PIPES AND STRUCTURES, THE CONTRACTOR SHALL VERIFY RELATED DRAINAGE INFORMATION IN THE PLANS AND PROVIDE DOCUMENTATION TO ENGINEER IN ACCORDANCE WITH THE SPECIFICATIONS.

CONTRACTOR MUST CONTACT THE PROJECT ENGINEER AND THE RACINE COUNTY SURVEYOR, JOHN WASHBURN, AND RACINE COUNTY PUBLIC WORKS DIRECTOR, JULIE ANDERSON, AT LEAST TWO WEEKS PRIOR TO WORK NEAR ANY PUBLIC SURVEY MONUMNET.

ALL ENCROACHMENTS SHOWN IN THE PLAN ARE TO BE REMOVED BY THE PROPERTY OWNER PRIOR TO CONSTRUCTION, UNLESS OTHERWISE NOTED.

THE LOCATIONS OF SELECT SUBBASE AND GEOGRID TYPE SR ARE DEPENDENT ON FIELD CONDITIONS DURING GRADING OPERATIONS. GEOGRID REINFORCEMENT AND FILL MATERIAL SHALL NOT BE PLACED UNTIL AUTHORIZED BY THE ENGINEER OR SOILS ENGINEER.

CONTRACTOR SHALL CONTACT SEWRPC AT LEAST TWO WEEKS PRIOR TO REPLACING SECTION CORNERS.

LOCATIONS OF DRAINTILE ON THE PLAN ARE BASED ON AS-BUILT OR PROPERTY OWNER INTERVIEWS. DRAINTILE EXPLORATION ITEM IS TO BE USED TO VERIFY THE EXACT SIZE AND LOCATION.

FERTILIZER SHALL NOT BE USED WITHIN 20 FEET OF NAVIGABLE WATERWAYS OR WETLANDS.

HMA PAVEMENT AND CONCRETE DRIVEWAYS AND/OR PARKING LOTS SHALL BE SAWCUT AT THE MATCHLINE AS SHOWN ON THE PLAN DETAILS OR AS DIRECTED BY THE ENGINEER.

STATIONING, DISTANCES AND OFFSETS FOR SIGNS SHOWN ON THE PLANS ARE APPROXIMATE AND THE LOCATIONS OF SIGNS ARE TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

ADDRESS NUMBER SIGNS WILL BE RELOCATED BY LOCAL MUNICIPALITIES. CONTACT MUNICIPALITY TWO WEEKS PRIOR TO BEGINNING WORK WHICH MAY DISTURB ADDRESS NUMBER SIGNS.

A CONVERSION FACTOR OF 2.0 TONS/CY IS USED TO ESTIMATE QUANTITIES FOR BASE AGGREGATE DENSE 3/4-INCH AND 1 1/4-INCH.

A CONVERSION FACTOR OF 1.9 TONS/CY IS USED TO ESTIMATE QUANTITIES FOR SELECT SUBBASE MATERIAL.

A CONVERSION FACTOR OF 1.7 TONS/CY IS USED TO ESTIMATE QUANTITIES FOR BREAKER RUN MATERIAL.

A CONVERSION FACTOR OF 115 LB/SY/IN IS USED TO ESTIMATE QUANTITIES FOR HMA PAVEMENT.

ALL TYPES OF HMA PAVEMENT SHALL BE CONSTRUCTED WITH THE FOLLOWING LAYERS AND GRADATIONS:

AP03

PAVEMENT TYPE	TOTAL LAYER PAVEMENT THICKNESS	LAYERS
4 LT 58-28 S 3 LT 58-28 S	5½"	2¼" UPPER LAYER 3¼" LOWER LAYER

STANDARD ABBREVIATIONS

AECPRC	APRON ENDWALL CULVERT PIPE REINFORCED CONCRETE
AECPRCHE	APRON ENDWALL CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL
AECPSS	APRON ENDWALL CULVERT PIPE SLOPED SECTION
AEW	APRON END WALL
AGG	AGGREGATE
BAD	BASE AGGREGATE DENSE
B/C	BACK OF CURB
BM	BENCH MARK
C&G	CURB AND GUTTER
C/L	CENTER OR CONSTRUCTION LINE
CONC	CONCRETE
CP	CULVERT PIPE
CPCM	CULVERT PIPE CORRUGATED METAL
CPRC	CULVERT PIPE REINFORCED CONCRETE
CPRCHE	CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL
CSD	CONCRETE SURFACE DRAIN
CY	CUBIC-YARD
D	DEGREE OF CURVE
Δ	DELTA
DISCH	DISCHARGE
DWY	DRIVEWAY
EBS	EXCAVATION BELOW SUBGRADE
EFR	EAST FRONTAGE ROAD
EL	ELEVATION
FE	FIELD ENTRANCE
HMA	HOT MIX ASPHALT
INV	INVERT
L	LENGTH OF CURVE
LHF	LEFT HAND FORWARD
LT	LEFT
MIN	MINIMUM
M/L	MATCHLINE
NB	NORTHBOUND
NC	NORMAL CROWN
PAVT	PAVEMENT
PC	POINT OF CURVE
PCC	POINT OF COMPOUND CURVE
PE	PRIVATE ENTRANCE
PGL	PROFILE GRADE LINE
PI	POINT OF INTERSECTION
PLE	PERMANENT LIMITED EASEMENT
PT	POINT OF TANGENT
R	RADIUS OF CURVE
R/L	REFERENCE LINE
R/W	RIGHT OF WAY
RC	REVERSE CROWN
REQD	REQUIRED
RHF	RIGHT HAND FORWARD
RO	RUN OFF LENGTH
RT	RIGHT
SALV	SALVAGED
SB	SOUTHBOUND
SDD	STANDARD DETAIL DRAWING
SE	SUPER ELEVATION
SF	SQUARE FOOT
SSPRC	STORM SEWER PIPE REINFORCED CONCRETE
SSPRCHE	STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL
STA	STATION
SY	SQUARE YARD
T	TANGENT LENGTH
TLE	TEMPORARY LIMITED EASEMENT
TYP	TYPICAL
VCL	VERTICAL CURVE LENGTH
VPC	POINT OF VERTICAL CURVE
VPI	POINT OF VERTICAL INTERSECTION
VPT	POINT OF VERTICAL TANGENT
WFR	WEST FRONTAGE ROAD

2

2

N

1/4 SECTION LINE

TOWN OF
YORKVILLE

BRAUN RD

BEGIN PROJECT
I.D. 1030-24-78
STA. 4680+00
= MATCH PROJECT
I.D. 1035-03-75
(PREVIOUSLY CONSTRUCTED)

NAVIGABLE WATERWAY
UT-18 TO KILBOURN ROAD DITCH

SYLVANIA
CEMETERY

BEGIN CONSTRUCTION
STA. 47+50

END PROJECT
I.D. 1030-24-78
STA. 2737+00
= MATCH PROJECT
I.D. 1030-24-74

STATION EQUATION
STA. 4711+25.94 BACK=
STA. 2711+35.24 AHEAD

SECTION LINE

APPLE
HOLLER

WEST FRONTAGE ROAD

PL

IH-94 SB

IH-94 NB

EAST FRONTAGE ROAD

END CONSTRUCTION
STA. 50+32

C-51-12
EXISTING BOX CULVERT
TO REMAIN

NAVIGABLE WATERWAY
UT-18 TO KILBOURN ROAD DITCH

PL

PL

PL

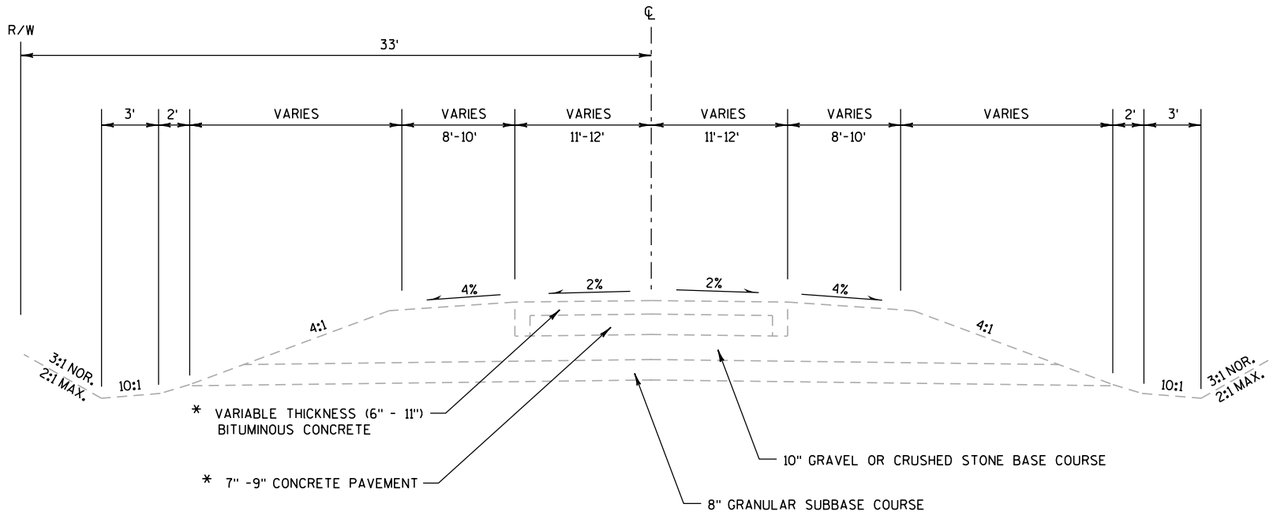
1/4 SECTION LINE

SECTION LINE

VILLAGE OF
MT. PLEASANT

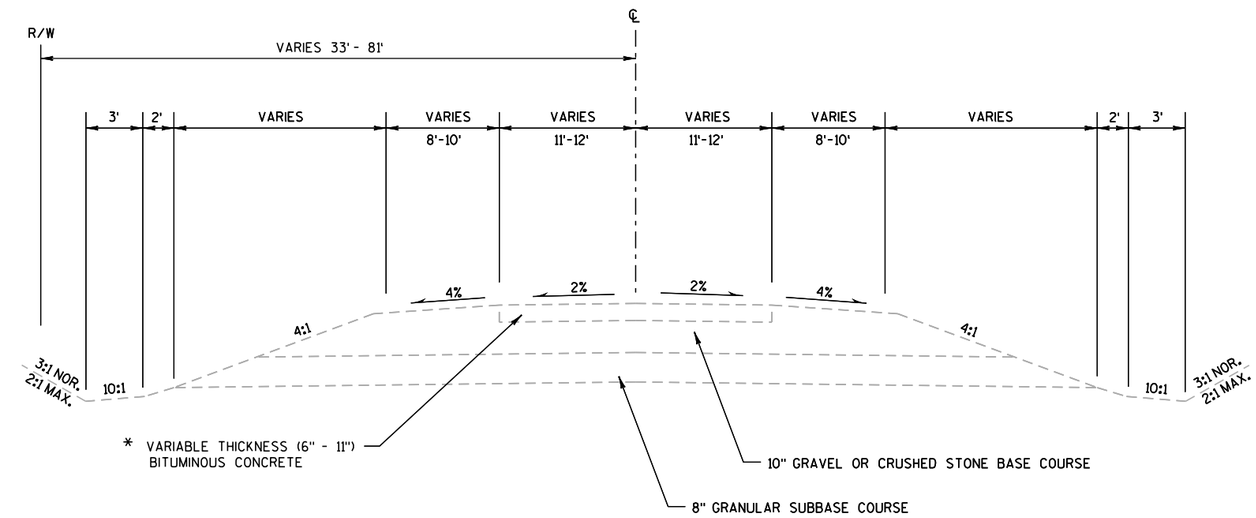
PROJECT NO: 1030-24-78	HWY: IH 94	COUNTY: RACINE	PROJECT OVERVIEW: WEST FRONTAGE ROAD	SHEET 4	E

FILE NAME : Z:\Racine\CADDS\12\12W\CDS\020201_po.dgn PLOT DATE : 1/10/2017 PLOT BY : tony.baciak PLOT NAME : PLOT SCALE : 1:400



TYPICAL EXISTING SECTION
WEST FRONTAGE ROAD
STA. 4680+00 - 4704+00

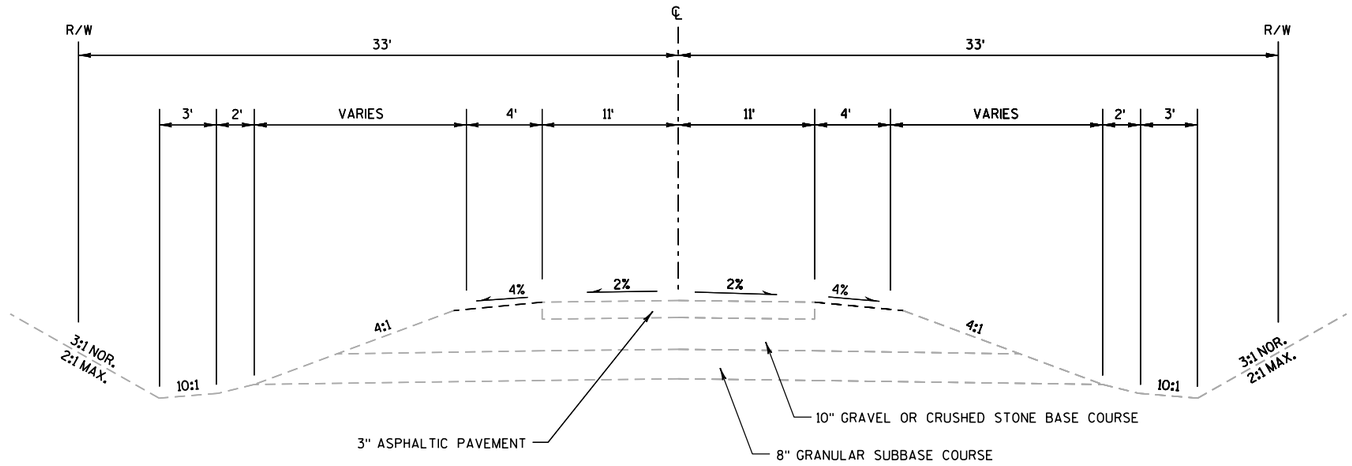
WEST FRONTAGE ROAD BORINGS		
STATION	BORING #	THICKNESS (INCHES)
4688+61	RPA-200	10" ASPHALT CONCRETE 7" CONCRETE PAVEMENT
4700+85	14	6" ASPHALT CONCRETE
4703+60	RPA-201	11" ASPHALT CONCRETE 9" CONCRETE PAVEMENT
2713+60	RPA-202	8 1/2" ASPHALT CONCRETE
2718+71	RPA-203	7 1/2" ASPHALT CONCRETE
2726+12	RPA-204	8" ASPHALT CONCRETE
2732+51	11	8" ASPHALT CONCRETE
2734+53	RPA-205	8" ASPHALT CONCRETE



TYPICAL EXISTING SECTION
WEST FRONTAGE ROAD
STA. 4704+00 - 4711+25
STA. 2711+35 - 2737+00

* SEE BORING TABLE

PROJECT NO: 1030-24-78	HWY: IH 94	COUNTY: RACINE	TYPICAL SECTIONS: EXISTING WEST FRONTAGE ROAD	SHEET 5	E

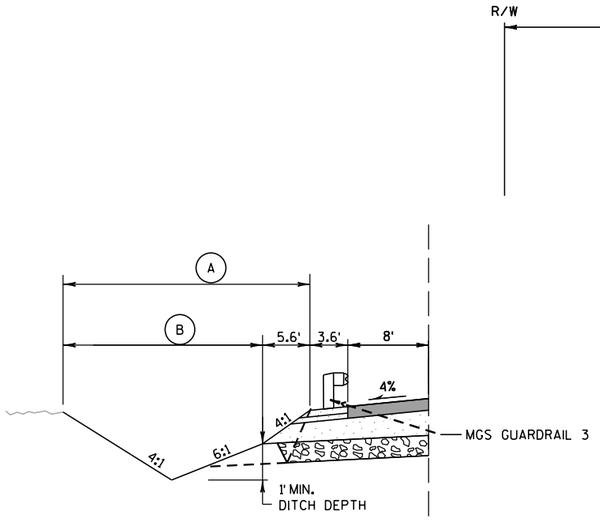


TYPICAL EXISTING SECTION
BRAUN ROAD
STA 47+50 - STA. 50+32

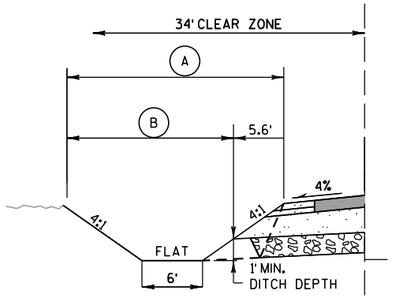
PROJECT NO: 1030-24-78	HWY: IH 94	COUNTY: RACINE	TYPICAL SECTIONS: EXISTING BRAUN ROAD	SHEET 6	E

FILE NAME : Z:\Racine\CADDS\12\12W\CDS\020301_ts.dgn PLOT DATE : 7/27/2017 PLOT BY : cory.ihde PLOT NAME : PLOT SCALE : 1:200

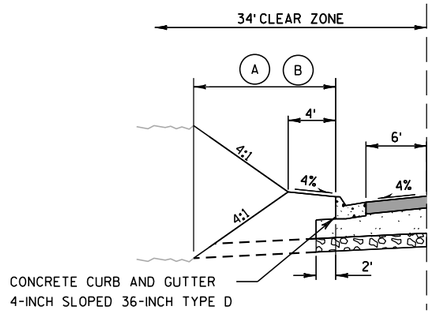
WISDOT/CADDS SHEET 42



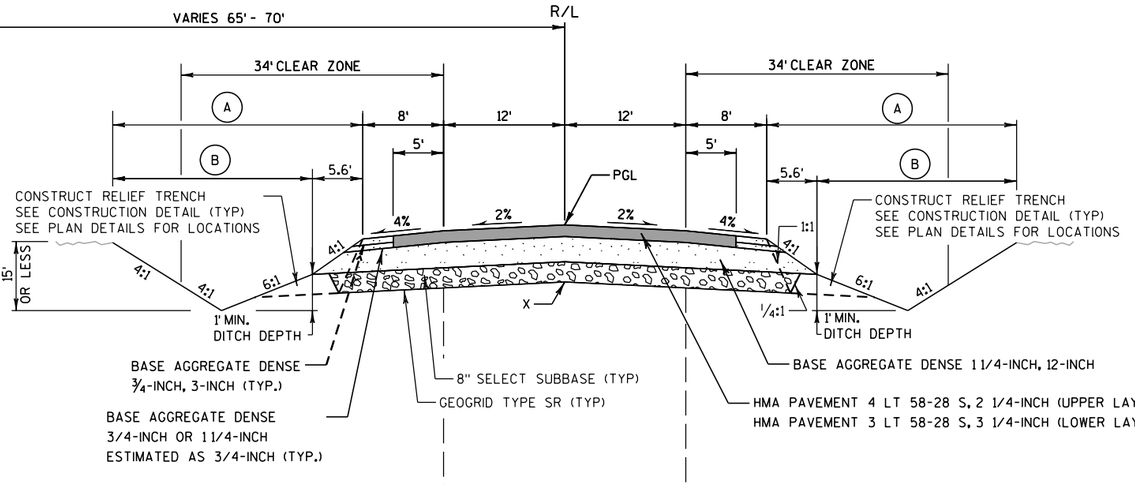
STA. 4689+00 - STA. 4691+50
STA. 4695+75 - STA. 4696+75
STA. 4705+80 - STA. 4706+30

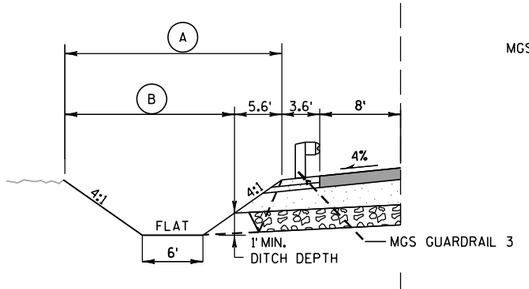


STA. 4680+00 - STA. 4684+50
STA. 2729+50 - STA. 2733+25
STA. 2735+75 - STA. 2736+25

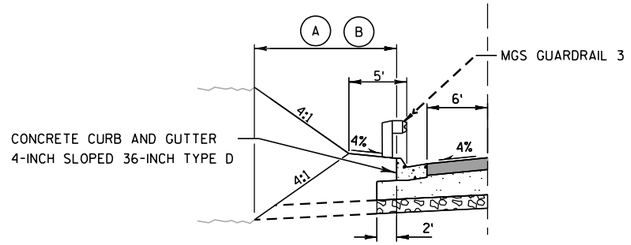


STA. 4698+90 - STA. 4700+75

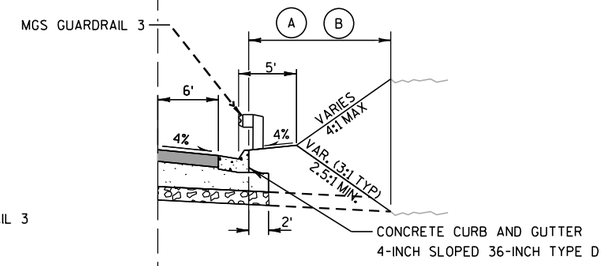




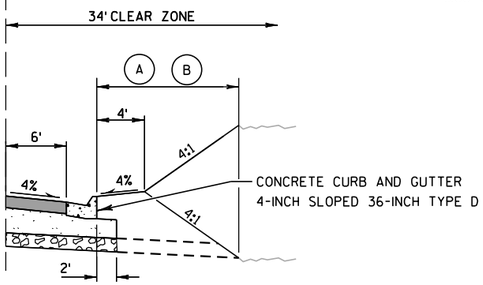
STA. 4696+75 - STA. 4698+50
STA. 2733+25 - STA. 2735+75



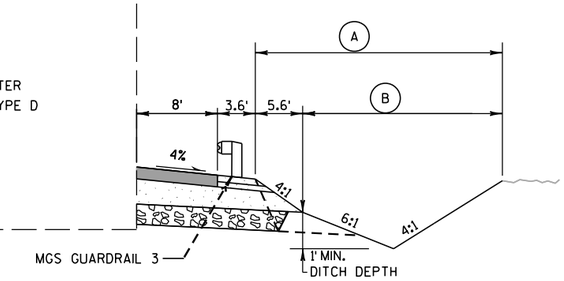
STA. 4700+75 - STA. 4705+80



STA. 4680+00 - STA. 4710+50
STA. 2712+00 - STA. 2715+25



STA. 4710+50 - STA. 4711+07
STA. 2715+25 - STA. 2719+00



STA. 2732+50 - STA. 2735+25

LEGEND:

(A) SEEDING MIXTURE NO. 30* SPECIAL AND FERTILIZER TYPE B SPECIAL

(B) 4" SALVAGED TOPSOIL AND MULCHING OR EROSION MAT

*EXCEPT USE SEEDING MIXTURE NO. 40 AT AREAS DESIGNATED IN THE EROSION CONTROL PLANS

NOTE:

PGL = POINT REFERRED TO ON PROFILE
X = POINT REFERRED TO ON CROSS SECTION

TYPICAL FINISHED SECTION
WEST FRONTAGE ROAD

STA. 4680+00 - STA. 4711+26
STA. 2711+35 - STA. 2736+22

PROJECT NO: 1030-24-78	HWY: IH 94	COUNTY: RACINE	TYPICAL SECTIONS: WEST FRONTAGE ROAD	SHEET 7	E

2

LEGEND:

(A) SEEDING MIXTURE NO. 30* SPECIAL
AND FERTILIZER TYPE B SPECIAL

(B) 4" SALVAGED TOPSOIL
AND MULCHING OR EROSION MAT

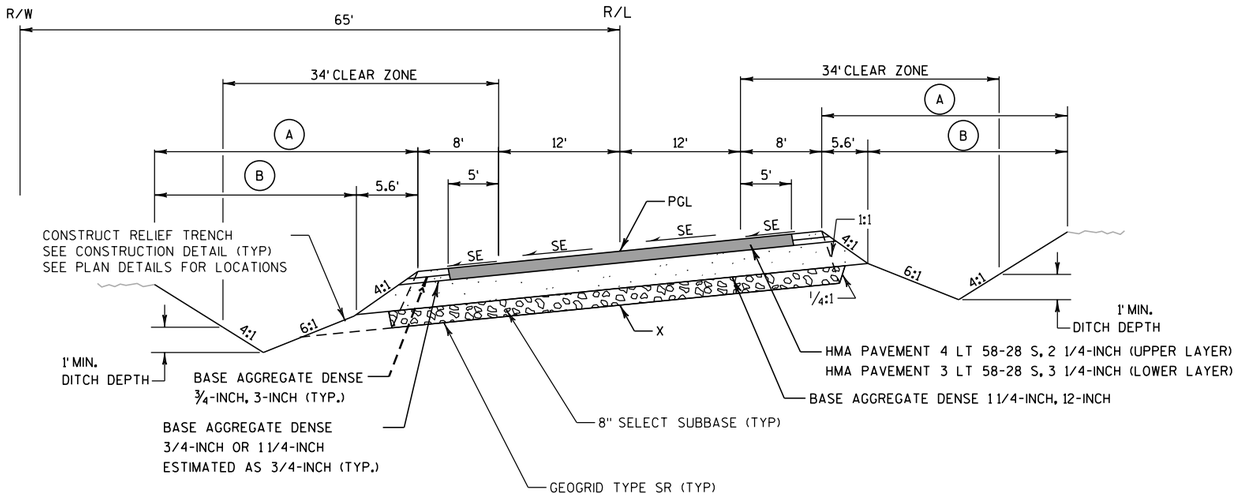
*EXCEPT USE SEEDING MIXTURE NO. 40 AT
AREAS DESIGNATED IN THE EROSION CONTROL PLANS

NOTE:

PGL = POINT REFERRED TO ON PROFILE
AND PIVOT POINT FOR SUPERELEVATION

X = POINT REFERRED TO ON CROSS SECTION

SE = SEE ALIGNMENT LAYOUT SHEETS FOR
SUPERELEVATION (SE) RATES



TYPICAL FINISHED SECTION

WEST FRONTAGE ROAD
SUPER ELEVATED SECTION

STA. 2736+22 - STA. 2737+00

LEGEND:

(A) SEEDING MIXTURE NO. 30* SPECIAL AND FERTILIZER TYPE B SPECIAL

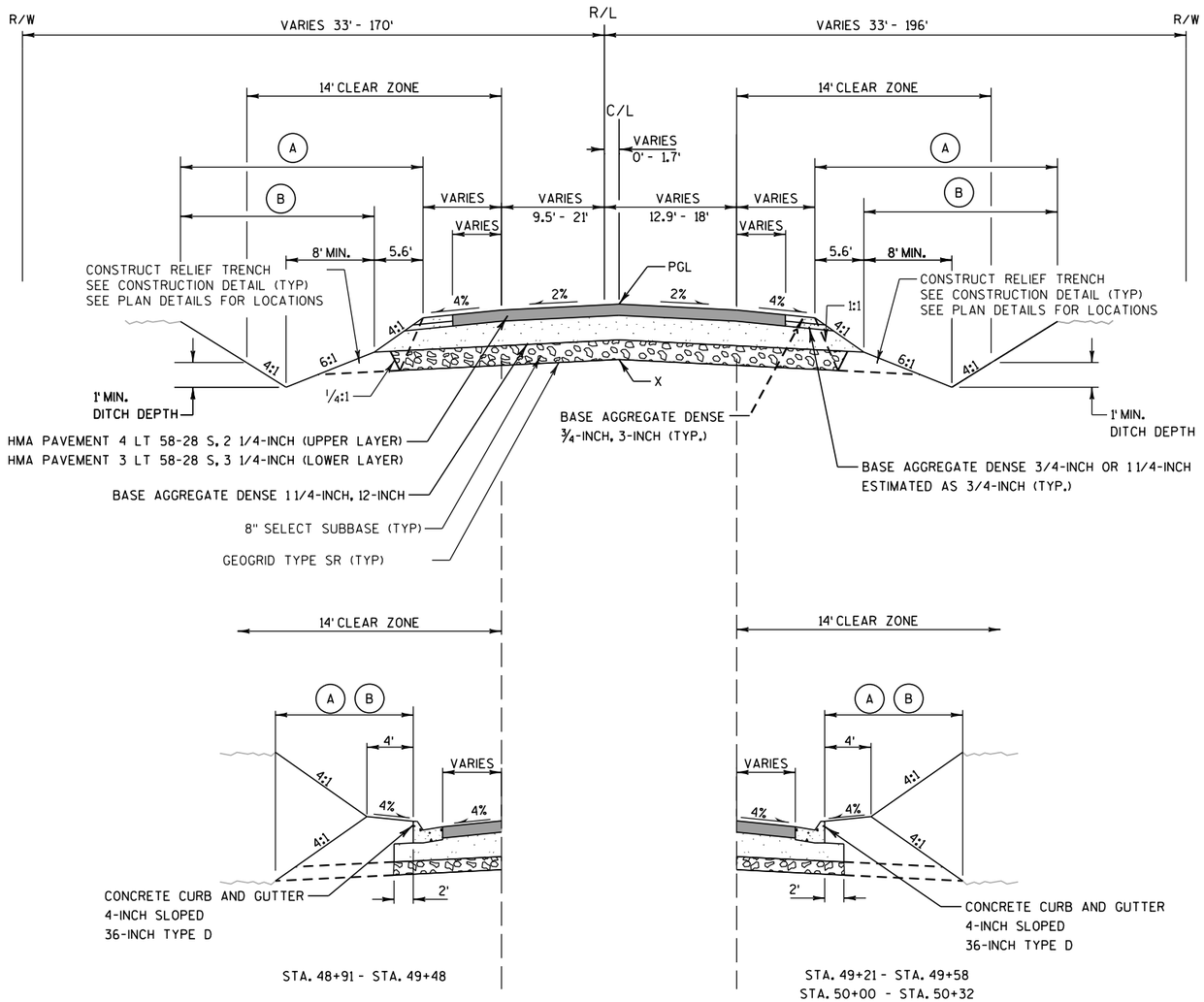
(B) 4" SALVAGED TOPSOIL AND MULCHING OR EROSION MAT

*EXCEPT USE SEEDING MIXTURE NO. 40 AT AREAS DESIGNATED IN THE EROSION CONTROL PLANS

NOTE:

PGL = POINT REFERRED TO ON PROFILE AND PIVOT POINT FOR SUPERELEVATION

X = POINT REFERRED TO ON CROSS SECTION



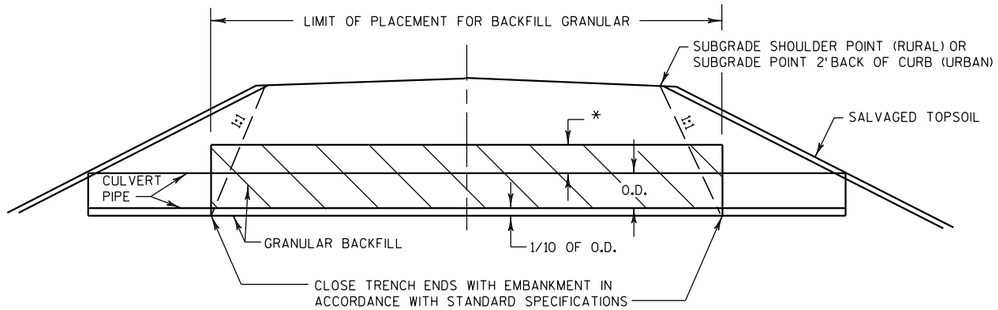
STA. 48+91 - STA. 49+48

STA. 49+21 - STA. 49+58
STA. 50+00 - STA. 50+32

TYPICAL FINISHED SECTION

BRAUN ROAD

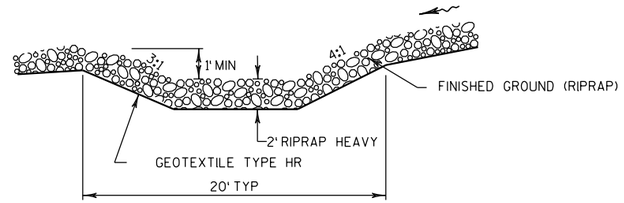
STA. 47+50 TO STA. 50+65



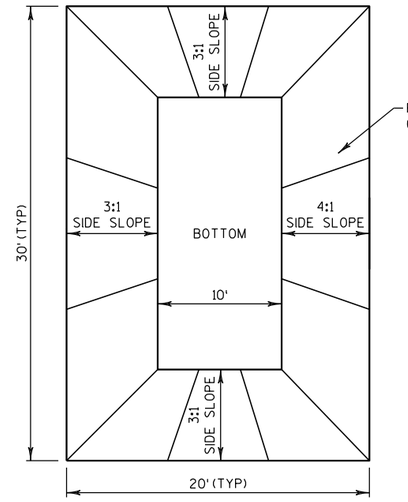
O.D. = OUTSIDE DIAMETER

* CULVERT PIPE IN NEW EMBANKMENT = 1' MIN
* CULVERT PIPE IN EXISTING EMBANKMENT = TO EXISTING GROUND ELEVATION

CULVERT BACKFILL DETAIL



SECTION VIEW



DITCH/CHANNEL FROM STORM SEWER OUTFALL

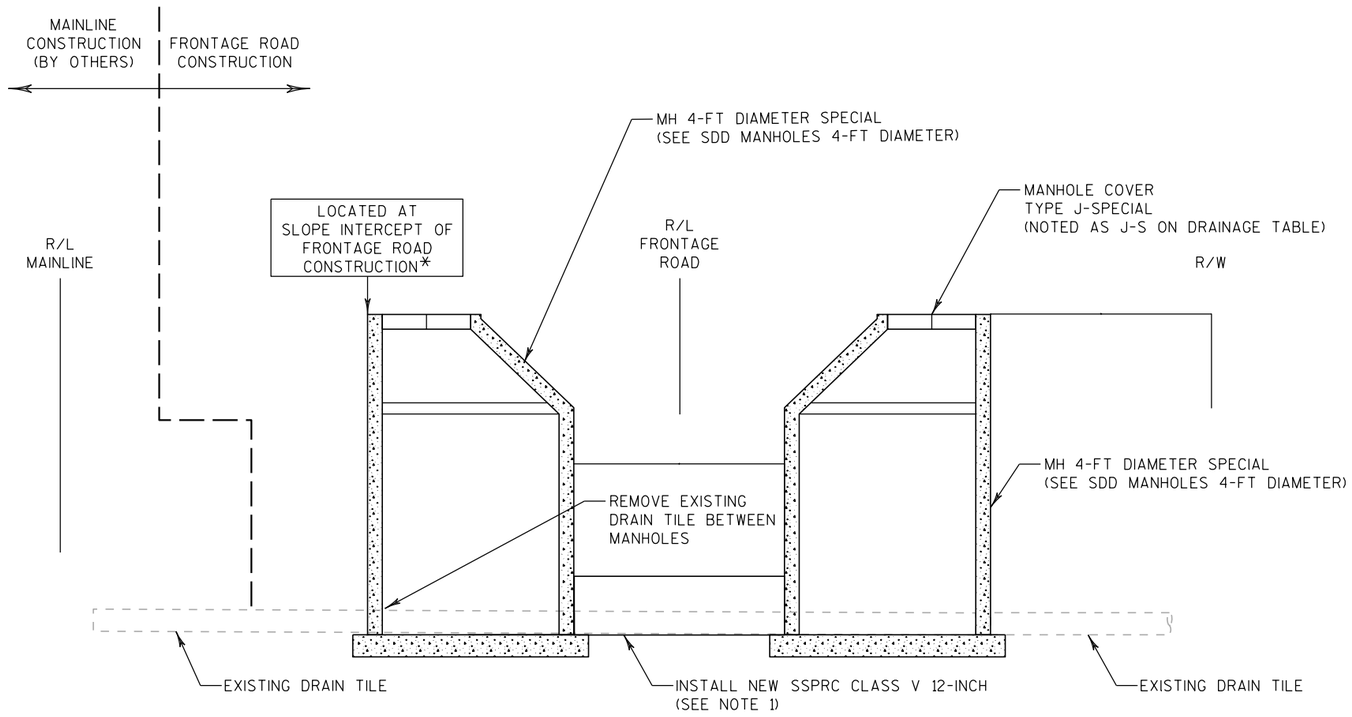
NOTES

1. LEVEL SPREADER TO BE EXCAVATED AS SOON AS POSSIBLE DURING ROADWAY GRADING OPERATION. DO NOT PLACE RIPRAP UNTIL ROADWAY GRADING IS COMPLETE.
2. BASINS ARE TO BE CLEANED AFTER ROADWAY GRADING HAS BEEN COMPLETED AND PRIOR TO PLACING RIPRAP. BASIN MAINTENANCE IS INCIDENTAL TO EXCAVATION COMMON.
3. CONSTRUCTION OF LEVEL SPREADER TO BE PAID AS EXCAVATION COMMON, RIPRAP HEAVY, AND GEOTEXTILE TYPE HR.

PLAN VIEW

PERMANENT LEVEL SPREADER DETAIL

STA 4699+50, RT



STAGING

1. FRONTAGE ROAD CONSTRUCTION:

   CONSTRUCT MANHOLE 4-FT DIAMETER SPECIAL. CONNECT EXISTING TILE TO MANHOLE. REPLACE EXISTING TILE WITH SSPRC CLASS V 12-INCH BETWEEN MANHOLES.

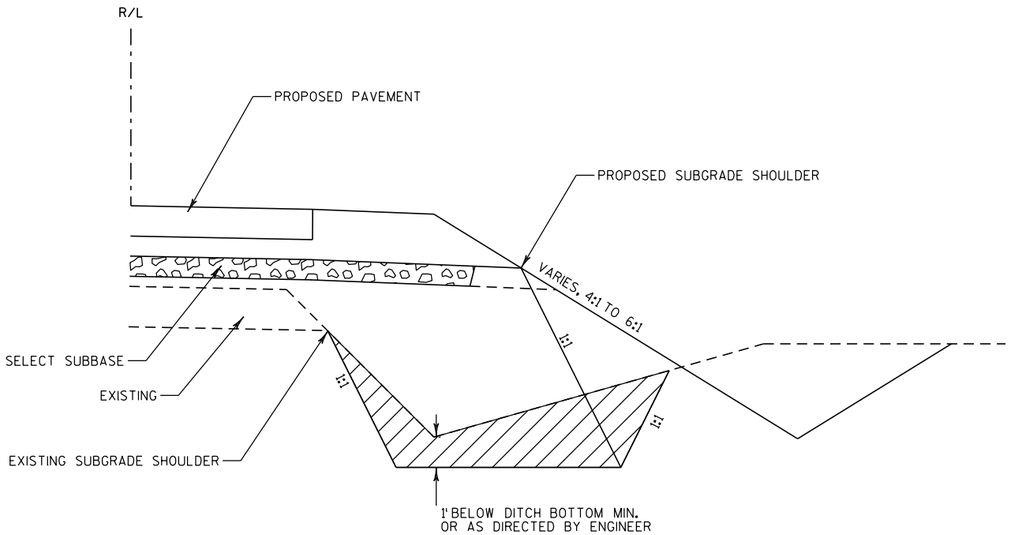
NOTES

1. IF EXISTING DRAIN TILE IS LARGER THAN 12", MATCH THE EXISTING SIZE IN THE FIELD.
2. GRADING AT MANHOLES WITHIN THE CLEAR ZONE OF THE FRONTAGE ROADS AND MAINLINE IS TO BE FLUSH WITH TOP OF THE MANHOLE.

* LOCATION CAN BE ADJUSTED AS NEEDED IF APPROVED BY THE ENGINEER

DRAIN TILE CONFIGURATION

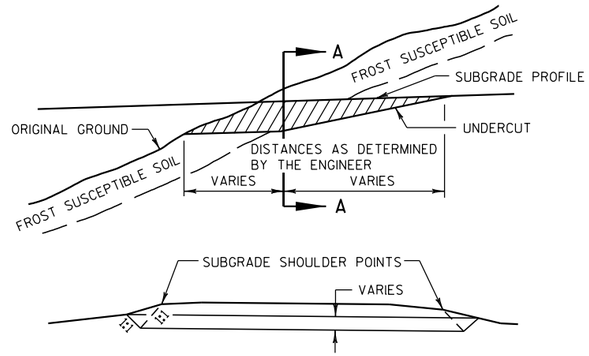
(FOR FRONTAGE ROAD CROSSINGS)



EBS AT DITCH FILLS AT FRONTAGE ROADS

1. UTILIZE DETAIL FOR ALL AREAS WHERE FILL IS TO BE PLACED OVER AN EXISTING DITCH.
2. EXCAVATE AREA TO A MINIMUM OF 1-FOOT BELOW EXISTING DITCH BOTTOM OR AS DIRECTED BY ENGINEER IN THE FIELD.
3. EXACT LOCATIONS AND EXTENTS OF EBS SECTIONS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

2

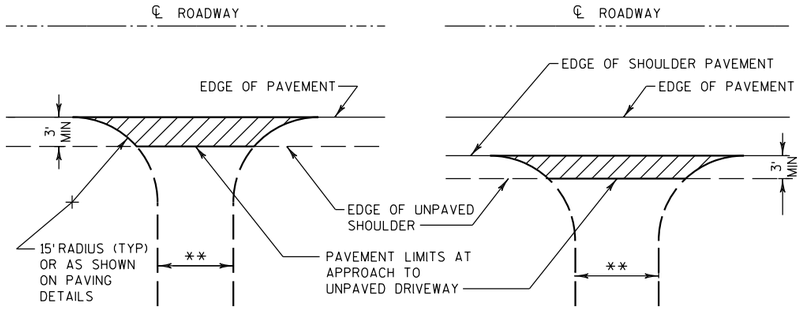


SECTION A-A
CROSS SECTION SHOWING UNDERCUT

NOTES

1. EXACT LOCATIONS AND EXTENT OF EBS SECTIONS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
2. THE FILL SECTION WITHIN 100' OF THE MOUTH OF THE CUT MUST BE KEPT 2' BELOW SUBGRADE UNTIL EBS IS COMPLETED.

EXCAVATION BELOW SUBGRADE AT CUTS

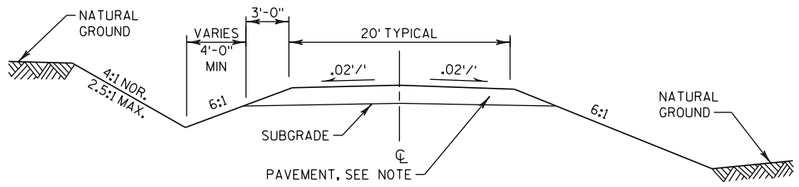


** SEE PAVING DETAILS FOR WIDTH REQUIRED.

PLAN VIEW

PLAN VIEW
(PAVED SHOULDER ON HIGHWAY)

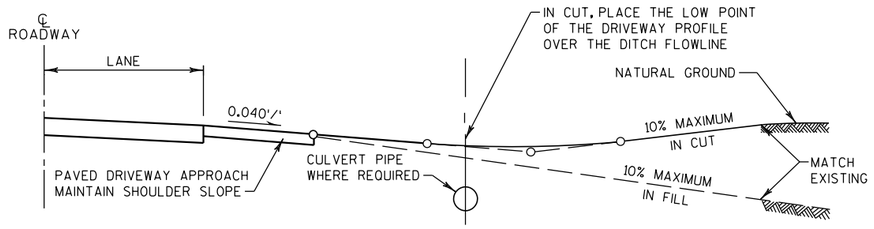
RURAL DRIVEWAY INTERSECTION



IN CUT

IN FILL

TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE



TYPICAL DRIVEWAY PROFILES

NOTES

1. WHERE DRIVEWAY IS PAVED, APPROACH PAVEMENT SHOULD BE EXTENDED TO MATCH DRIVEWAY PAVEMENT. SAWCUT IS REQUIRED.

2. DRIVEWAY SURFACE TO BE SAME AS EXISTING WITH MINIMUM SECTION OF:

   ASPHALTIC SURFACE (3 OR 4-INCH) DRIVEWAYS AND FIELD ENTRANCES OVER BASE AGGREGATE DENSE 3/4 -INCH (4-INCH)

   OR

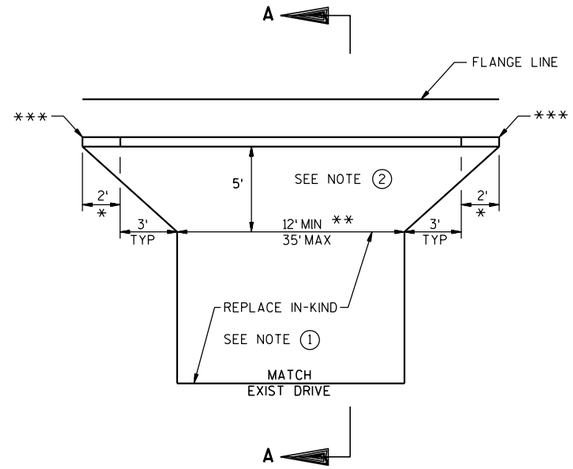
   CONCRETE DRIVEWAY 6-INCH OVER BASE AGGREGATE DENSE 3/4 -INCH (4-INCH)

   OR

   BASE AGGREGATE DENSE 3/4 -INCH (6-INCH)

RURAL DRIVEWAY

2



PLAN VIEW

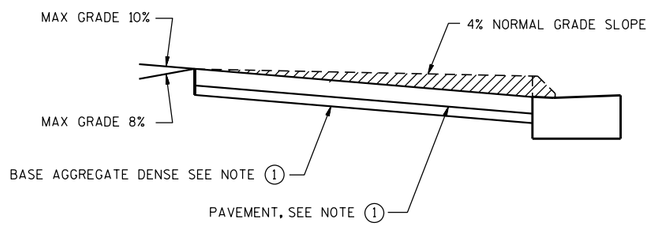
NOTES:

(1) DRIVEWAY SURFACE BEYOND APRON TO BE REPLACED IN-KIND WITH MINIMUM SECTION OF:

ASPHALTIC SURFACE (3-INCH) DRIVEWAYS AND FIELD ENTRANCES OVER BASE AGGREGATE DENSE 3/4-INCH (4-INCH)
OR
BASE AGGREGATE DENSE 3/4-INCH (6-INCH)

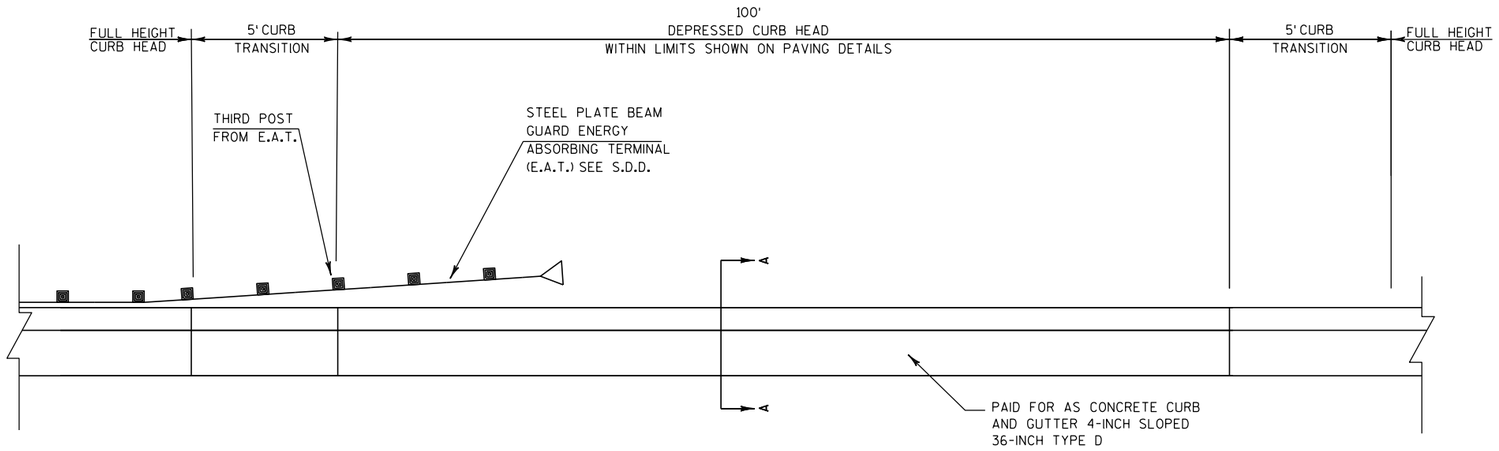
* TAPER CURB HEAD
** SEE PAVING DETAILS FOR WIDTH REQD
*** STATION SHOWN ON PAVING DETAILS

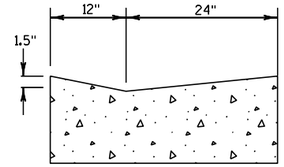
(2) ALL URBAN DRIVEWAYS TO BACK OF APRON TO BE PAID FOR AS ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES



SECTION A-A

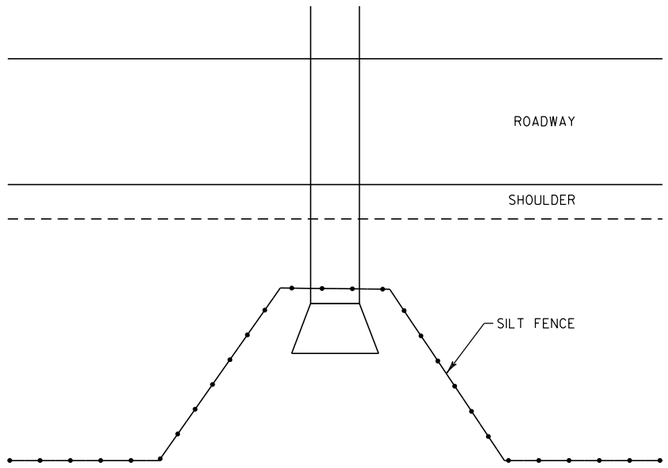
URBAN DRIVEWAY





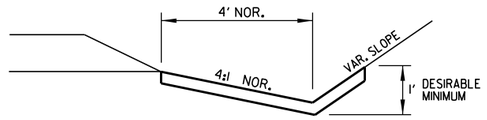
SECTION A-A
DEPRESSED CURB

DEPRESSED CURB HEAD AT BEAM GUARD TERMINAL



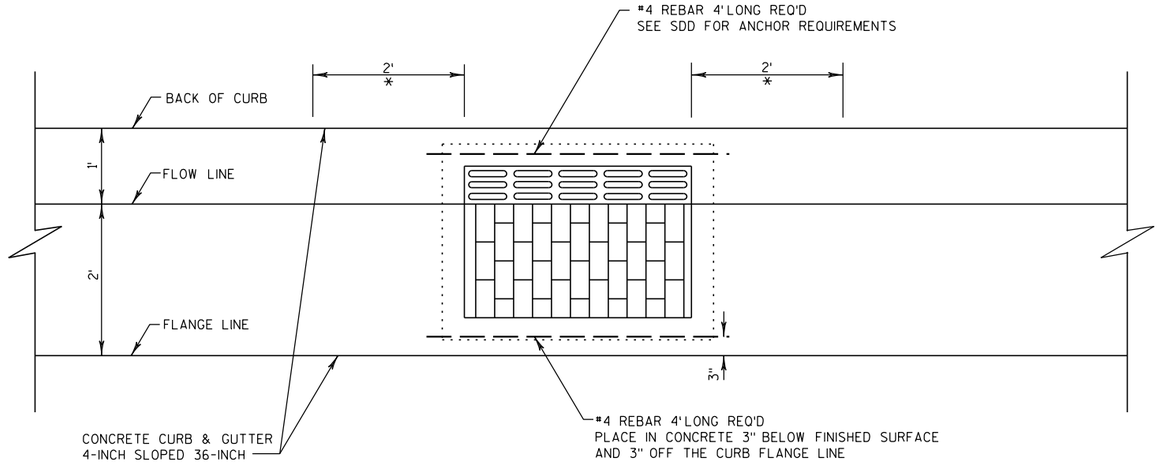
NOTE
SEE SILT FENCE SDD FOR ADDITIONAL INFORMATION.

TYPICAL SILT FENCE DETAIL AT PIPE INLET



EROSION MAT DETAIL FOR DITCHES

PROJECT NO: 1030-24-78	HWY: IH 94	COUNTY: RACINE	CONSTRUCTION DETAILS: WEST FRONTAGE ROAD 090107	SHEET 14	E



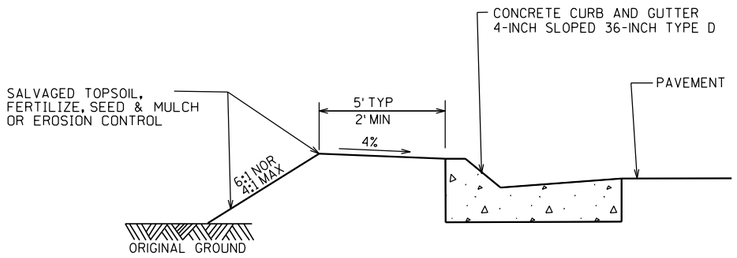
PLAN VIEW

* TRANSITION STANDARD CURB HEAD TO MATCH THE TYPE HM INLET COVER.

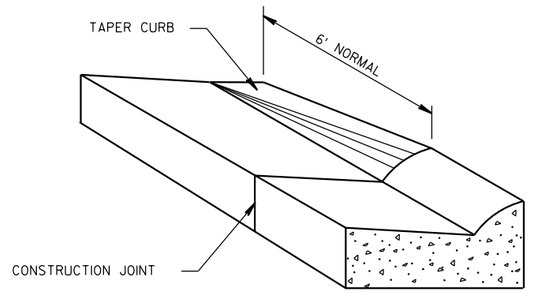
NOTES

1. SEE SDD "INLET COVERS TYPE F, HM, HM-S, S, V, HM-GJ, & HM-GJ-S" FOR ADDITIONAL INFORMATION.
2. THE TWO 2-FOOT LONG CURB TRANSITION SEGMENTS ARE PAID AS CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH.
3. THE TWO 4-FOOT LENGTHS OF #4 REBAR ARE INCIDENTAL TO THE BID ITEM "INLET COVERS TYPE HM".

INLET COVERS, TYPE HM



TYPICAL PARTIAL SECTION AT INTERSECTION RADII



DETAIL OF CURB & GUTTER TERMINI

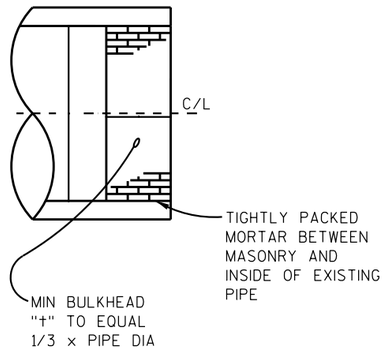
NOTE: USE 6 FT TRANSITION FOR CONCRETE AND ASPHALTIC CURB

PROJECT NO: 1030-24-78	HWY: IH 94	COUNTY: RACINE	CONSTRUCTION DETAILS: WEST FRONTAGE ROAD	SHEET 15	E

RUNOFF COEFFICIENT TABLE

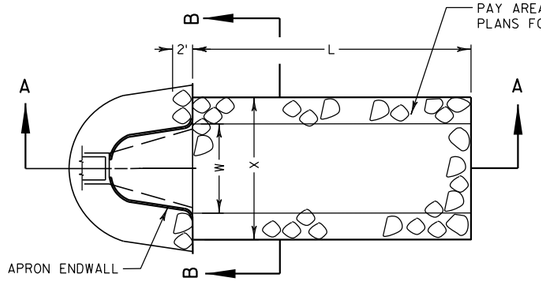
	HYDROLOGIC SOIL GROUP											
	A			B			C			D		
	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)		
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56
MEDIAN STRIP- TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22 .28	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40
SIDE SLOPE- TURF			.25 .32			.27 .34			.28 .36			.30 .38
PAVEMENT: HMA												
ASPHALT	.70 - .95											
CONCRETE	.80 - .95											
BRICK	.70 - .80											
DRIVES, WALKS	.75 - .85											
ROOFS	.75 - .95											
GRAVEL ROADS, SHOULDERS	.40 - .60											

TOTAL PROJECT AREA = 61 ACRES (R/W AREA FOR CTH KR TO STH 11 SEGMENT)
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 12.73 ACRES
(I.D. 1030-24-78 DISTURBED AREA)

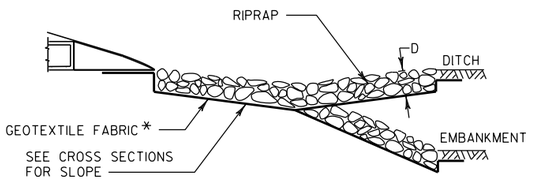


TEMPORARY BULKHEAD PIPE MASONRY

ITEM TO BE PAID FOR UNDER ITEM "SEALING PIPES"
FOR LOCATIONS SEE MISCELLANEOUS QUANTITIES SHEETS



PLAN VIEW



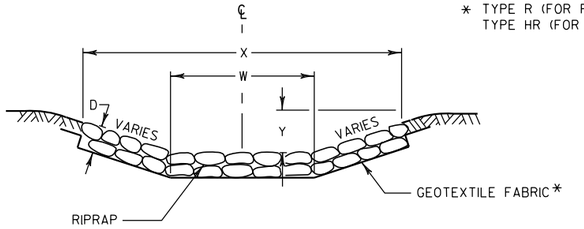
SECTION A-A

L = 3 x W (NOR) OR 10' MIN
OR AS INDICATED IN THE PLANS
OR AS DIRECTED BY THE ENGINEER

D = 12" FOR RIPRAP LIGHT
18" FOR RIPRAP MEDIUM
24" FOR RIPRAP HEAVY

X = W+2' FOR TYPICAL CULVERT
DISCHARGE INTO DITCH
W+5' FOR CULVERT DISCHARGE
DOWN EMBANKMENT SLOPE

Y = 0' FOR TYPICAL CULVERT
DISCHARGE INTO DITCH
12" FOR CULVERT DISCHARGE
DOWN EMBANKMENT SLOPE

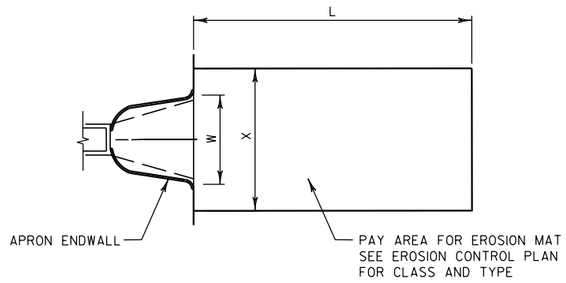


SECTION B-B

* TYPE R (FOR RIPRAP LIGHT ONLY)
TYPE HR (FOR RIPRAP HEAVY AND MEDIUM ONLY)

RIPRAP AND GEOTEXTILE FABRIC DETAIL AT APRON ENDWALLS

SEE EROSION CONTROL PLAN FOR LOCATIONS



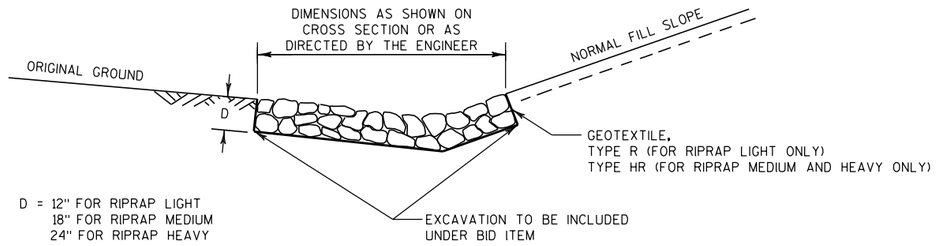
W = WIDTH OF APRON ENDWALL

L = 3 x W (NORMAL) OR 10' (MINIMUM) OR
AS INDICATED IN THE PLANS OR
AS DIRECTED BY THE ENGINEER.

X = W+2' FOR TYPICAL CULVERT
DISCHARGE INTO DITCH
W+5' FOR CULVERT DISCHARGE
DOWN EMBANKMENT SLOPE

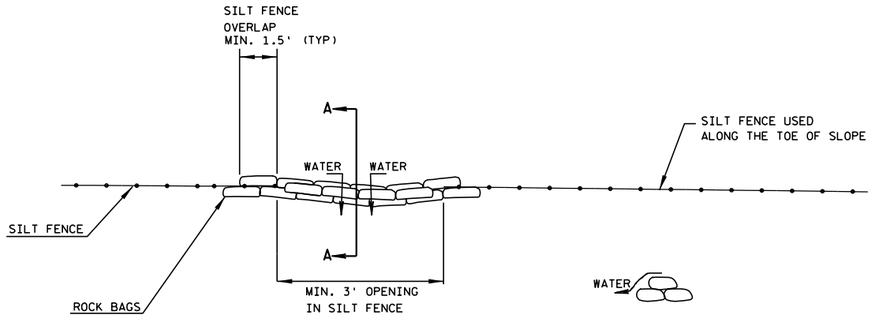
EROSION MAT TREATMENT AT CULVERTS

SEE EROSION CONTROL PLAN FOR LOCATIONS



D = 12" FOR RIPRAP LIGHT
18" FOR RIPRAP MEDIUM
24" FOR RIPRAP HEAVY

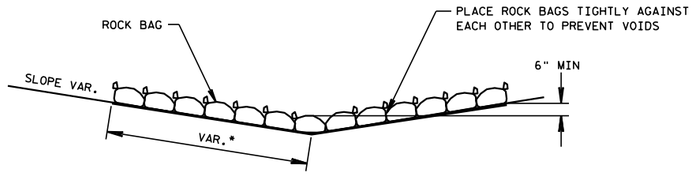
RIPRAP IN DITCHES



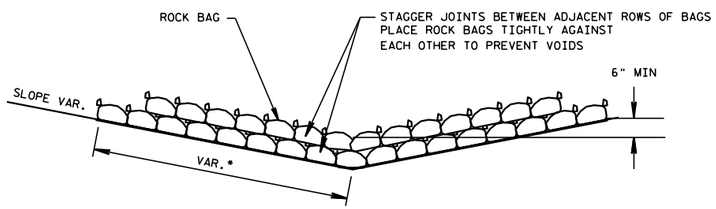
TOP VIEW

SECTION A-A

ROCK BAGS USED FOR SILT FENCE RELIEF DETAIL



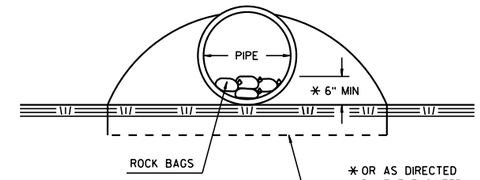
SIDE VIEW (SINGLE LAYER)



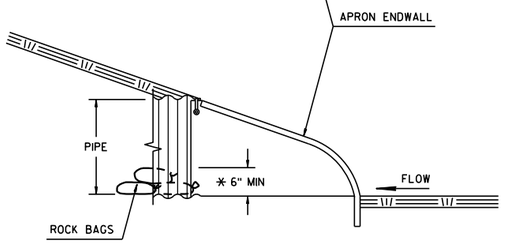
* LENGTH AND NUMBER OF BAGS MAY VARY
DEPENDING ON DESIRED DEPTH OF WATER POOL

SIDE VIEW (MULTIPLE LAYER)

DITCH CHECKS

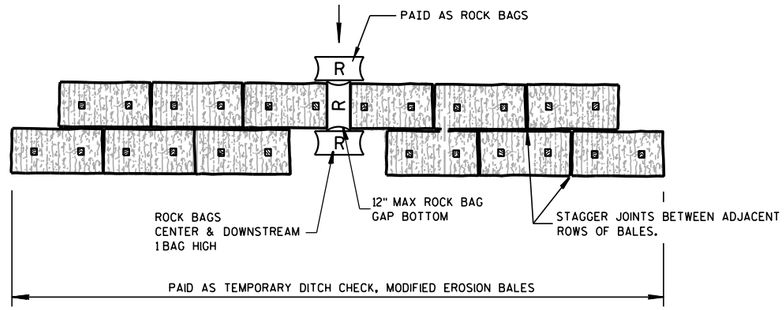


END VIEW

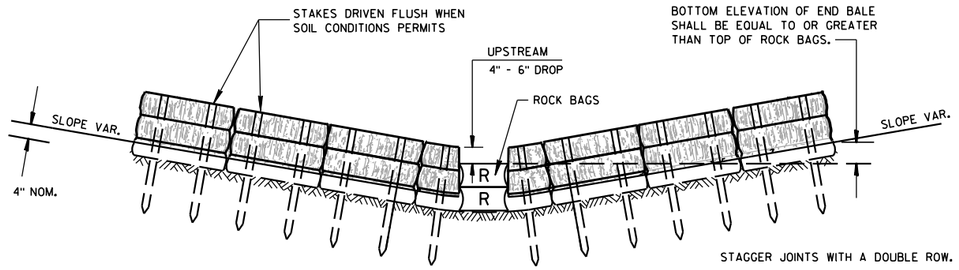


SIDE VIEW

CULVERT PIPE ENDS



PLAN VIEW

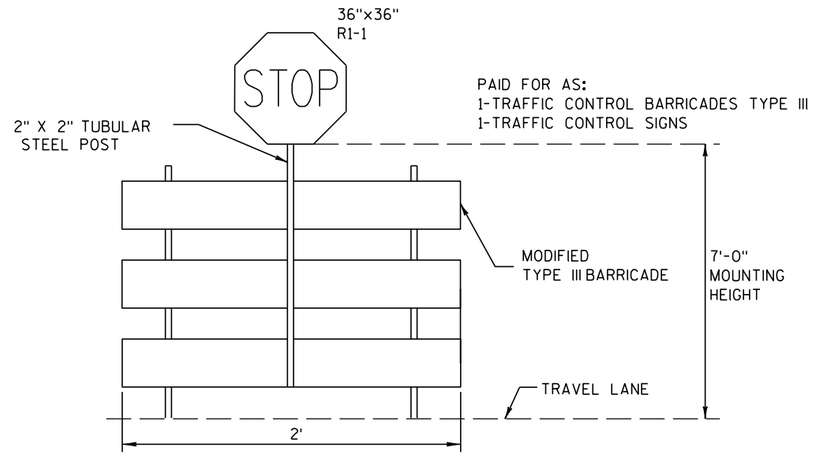


FRONT ELEVATION

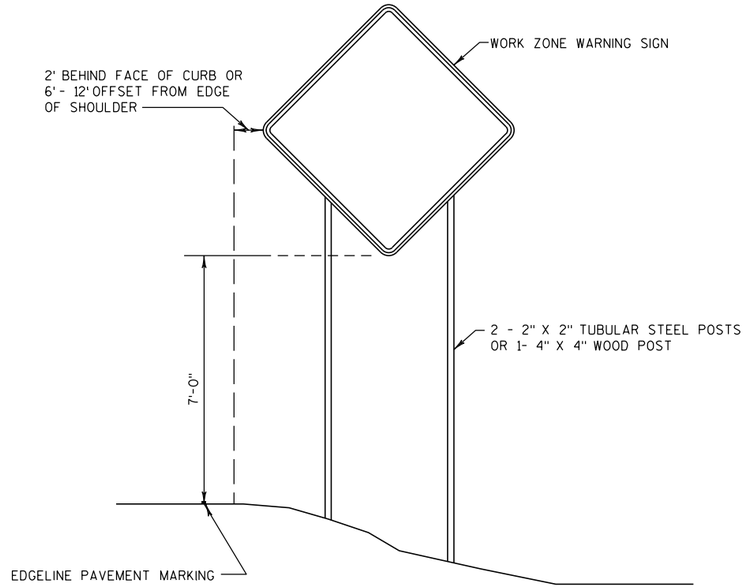
GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

TEMPORARY DITCH CHECK, MODIFIED EROSION BALES

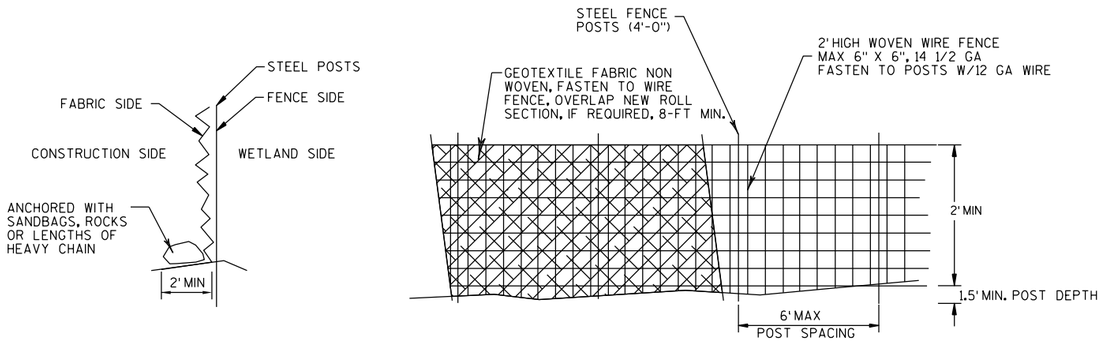


TEMPORARY STOP SIGN

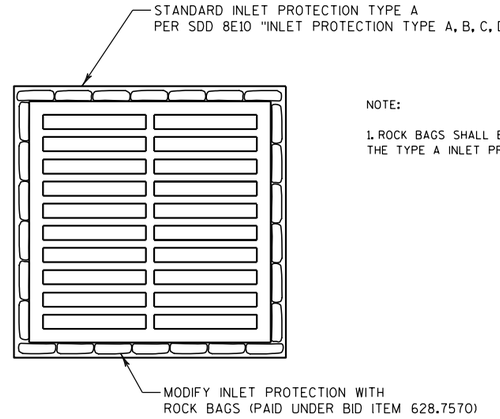


TYPICAL TEMPORARY TRAFFIC CONTROL SIGN
MOUNTING ON FIXED SUPPORT

LONG TERM
7 DAYS OR MORE



HEAVY DUTY SILT FENCE

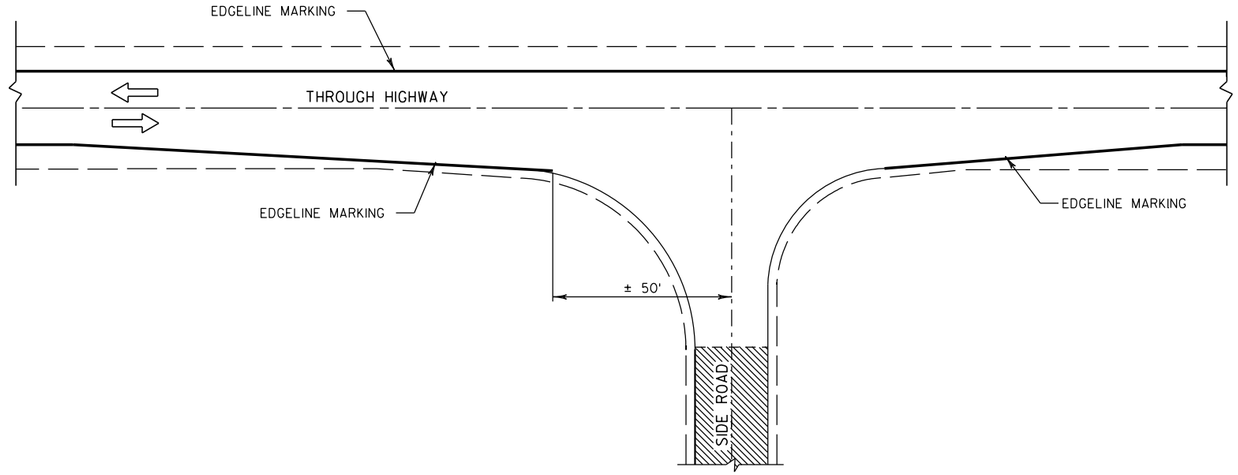


NOTE:

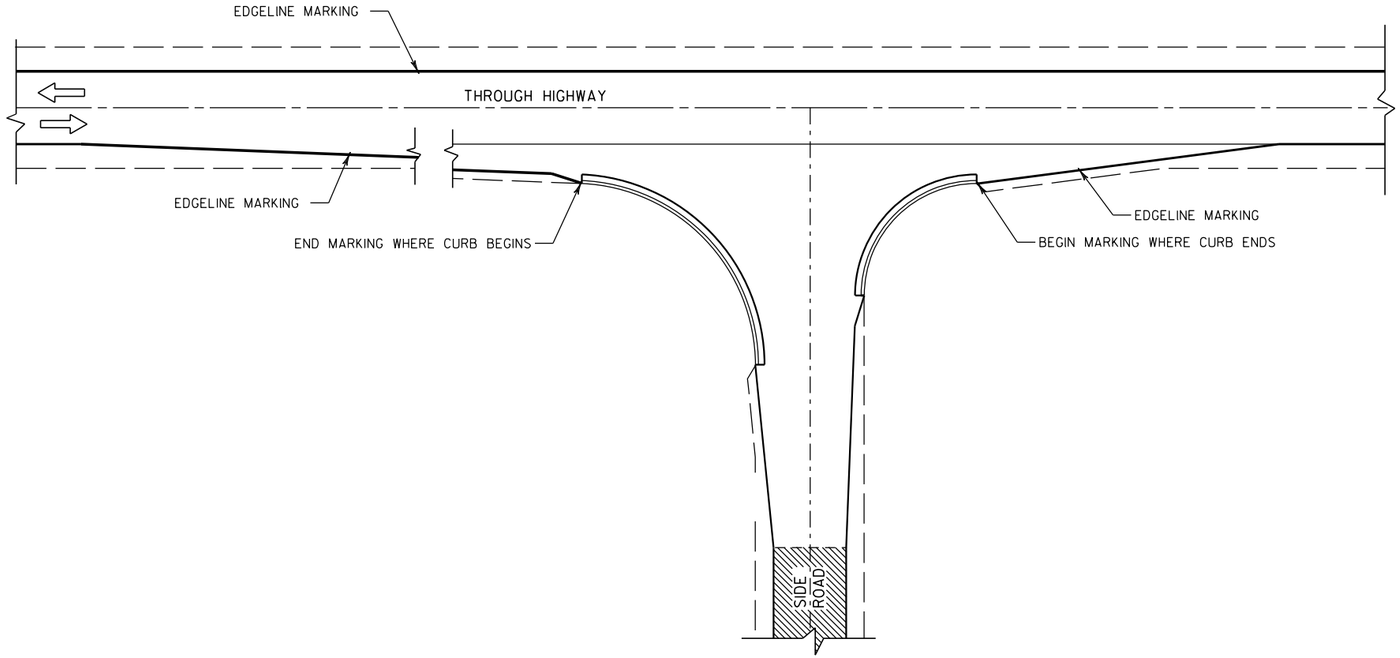
1. ROCK BAGS SHALL BE LAID END TO END INSIDE THE TYPE A INLET PROTECTION

INLET PROTECTION TYPE A MODIFIED DETAIL

2

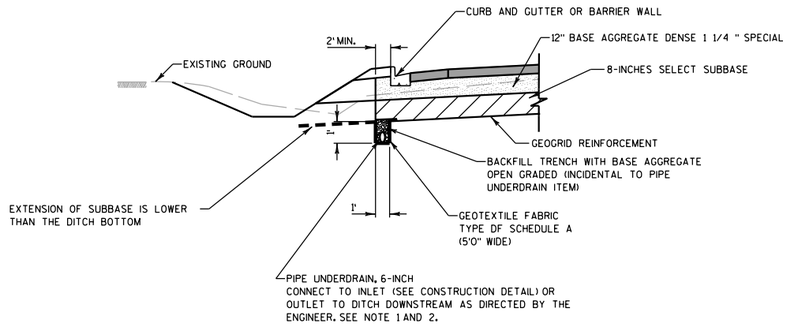


MINOR INTERSECTION WITHOUT CURBS
TYPICAL MARKING



MINOR INTERSECTION WITH CURBS
TYPICAL MARKING

MINOR INTERSECTION EDGELINE MARKING



PIPE UNDERDRAIN IN URBAN SECTIONS

SEE PLAN DETAILS FOR PIPE UNDERDRAIN LOCATIONS

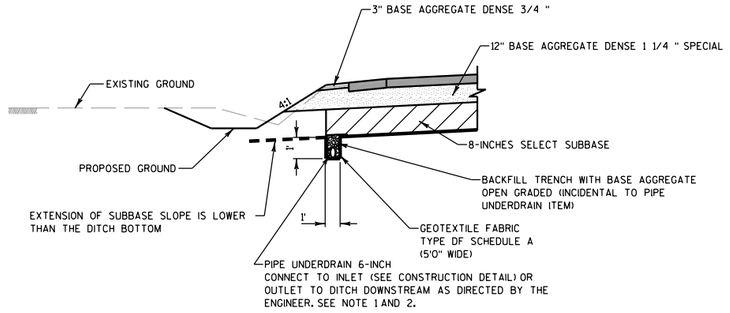
NOTES:

1. PIPE UNDERDRAIN UNPERFORATED REQUIRED AT LOCATIONS WHERE UNDERDRAIN IS REQUIRED TO CONNECT TO DITCHES OUTSIDE THE EBS AREA.

2. PIPE UNDERDRAIN UNPERFORATED REQUIRED AT LOCATIONS WHERE UNDERDRAIN IS REQUIRED TO OUTFALL IN DITCHES ON THE OPPOSITE SIDE OF THE ROAD (SEE UNDERDRAIN LATERAL CROSSING OUTLET DETAIL)

3. USE APRON ENDWALLS FOR UNDERDRAIN REINFORCED CONCRETE AT ALL DITCH OUTFALLS OF PIPE UNDERDRAIN.

4. ADJUST LATERAL LOCATION OF PIPE UNDERDRAIN AS NECESSARY TO AVOID CONFLICTS WITH THE STORM SEWER.



PIPE UNDERDRAIN IN RURAL SECTIONS

SEE PLAN DETAILS FOR PIPE UNDERDRAIN LOCATIONS

NOTES:

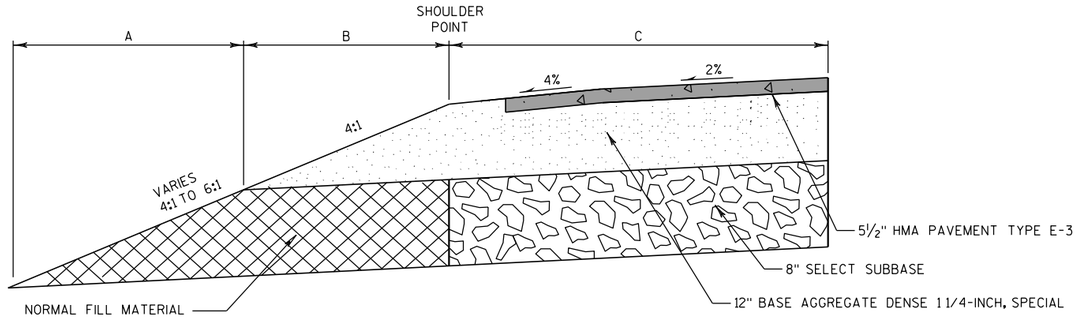
1. PIPE UNDERDRAIN UNPERFORATED REQUIRED AT LOCATIONS WHERE UNDERDRAIN IS REQUIRED TO CONNECT TO DITCHES OUTSIDE THE EBS AREA.

2. PIPE UNDERDRAIN UNPERFORATED REQUIRED AT LOCATIONS WHERE UNDERDRAIN IS REQUIRED TO OUTFALL IN DITCHES ON THE OPPOSITE SIDE OF THE ROAD (SEE UNDERDRAIN LATERAL CROSSING OUTLET DETAIL)

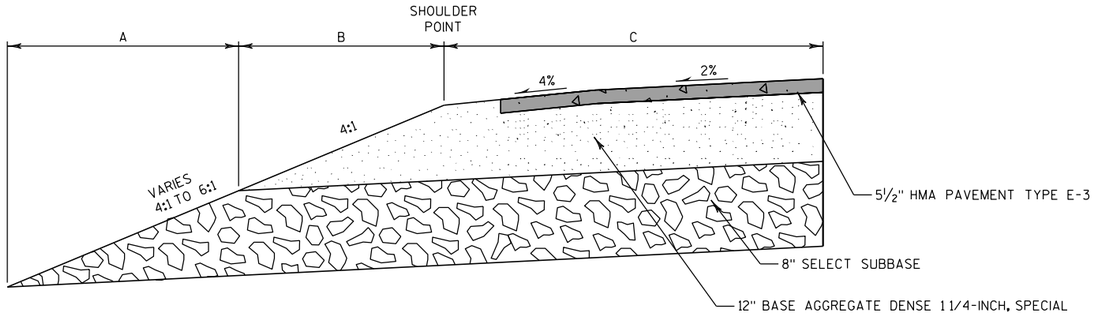
3. USE APRON ENDWALLS FOR UNDERDRAIN REINFORCED CONCRETE AT ALL DITCH OUTFALLS OF PIPE UNDERDRAIN.

4. ADJUST LATERAL LOCATION OF PIPE UNDERDRAIN AS NECESSARY TO AVOID CONFLICTS WITH THE STORM SEWER.

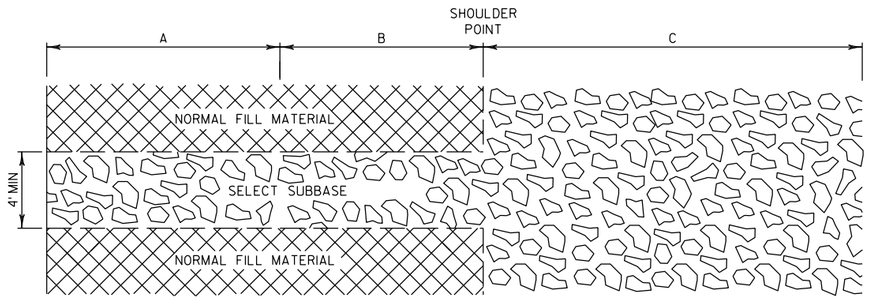
2



TYPICAL HALF SECTION WITHOUT RELIEF TRENCH



TYPICAL HALF SECTION WITH RELIEF TRENCH



RELIEF TRENCH PLAN VIEW

RELIEF TRENCH

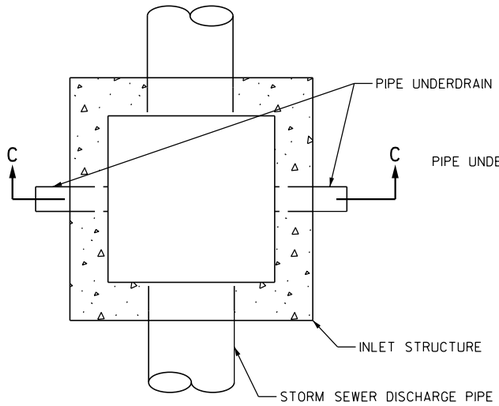
SEE PLAN DETAILS FOR RELIEF TRENCH LOCATIONS.

NOTE: EXCAVATION FOR RELIEF TRENCHES TO BE PAID UNDER THE ITEM EXCAVATION COMMON

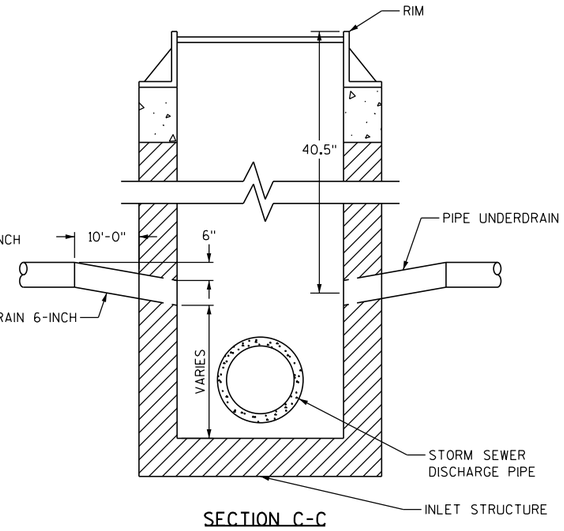
2

NOTES

1. CONNECTIONS TO INLETS OR MANHOLES IN MEDIAN SHALL USE PIPE UNDERDRAIN, 6-INCH.
2. PROVIDE TWO 6" DIA. OPENINGS FOR UNDERDRAIN PIPE A MINIMUM OF 40.5" BELOW THE RIM ELEVATION.
3. SEE TYPICAL SECTIONS, STORM SEWER, AND UNDERDRAIN PLANS FOR PIPE UNDERDRAIN LOCATIONS.

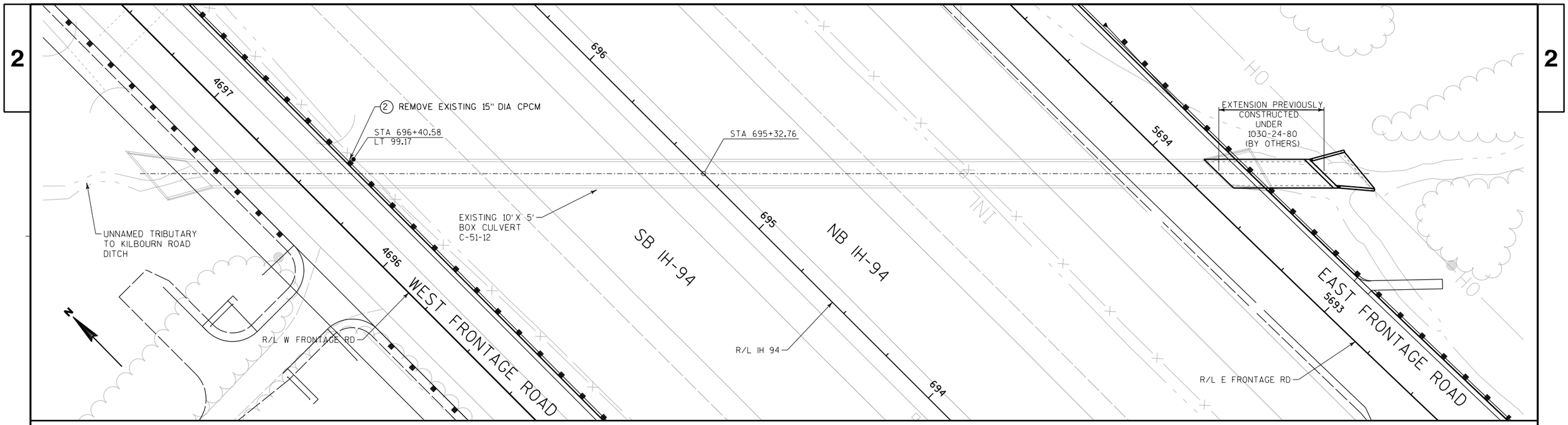


PLAN VIEW



SECTION C-C

UNDERDRAIN OUTFALL AT INLET



BILL OF BARS

BAR MARK	COAT	NO REQ'D	LENGTH	BENT	BAR SERIES
S401	--	4	1'-2"	--	--
S402	--	4	1'-11"	X	--

LOCATION NUMBER	DESCRIPTION	DISCHARGE EL.
②	15" DIA CPCM IN SIDEWALL	736.50

NOTES

REMOVAL OF THE EXISTING PIPE IS SHOWN ELSEWHERE IN THE PLAN.

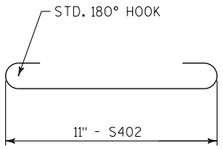
REMOVING THE INLET AT THE BOX CULVERT IS PAID UNDER THE ITEM REMOVING INLETS.

CONCRETE MASONRY, RUBBERIZED MEMBRANE WATERPROOFING, ADHESIVE ANCHORS, AND BAR STEEL REINFORCEMENT CULVERTS ARE PAID UNDER THEIR RESPECTIVE BID ITEMS.

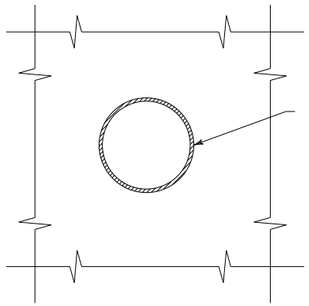
OPENING AT INLET #2 IS ASSUMED TO BE 15" (DIA) OPENING.

EXTENSION OF THE CULVERT WAS CONSTRUCTED UNDER PROJECT ID 1030-24-80 (BY OTHERS).

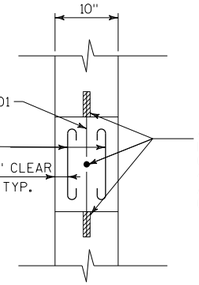
CONTRACTOR SHALL VERIFY INLET OPENINGS PRIOR TO ORDERING STEEL.



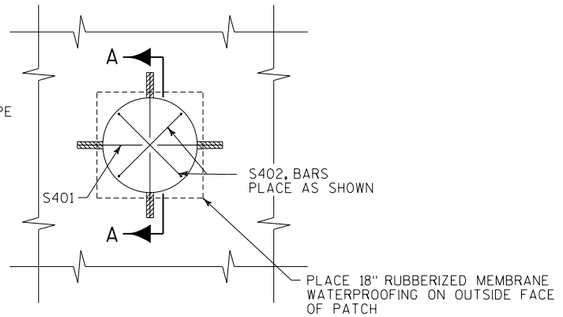
S402



INLET REMOVAL



SECTION A-A



INLET OPENING REPAIR

BOX CULVERT INLET REMOVAL DETAILS

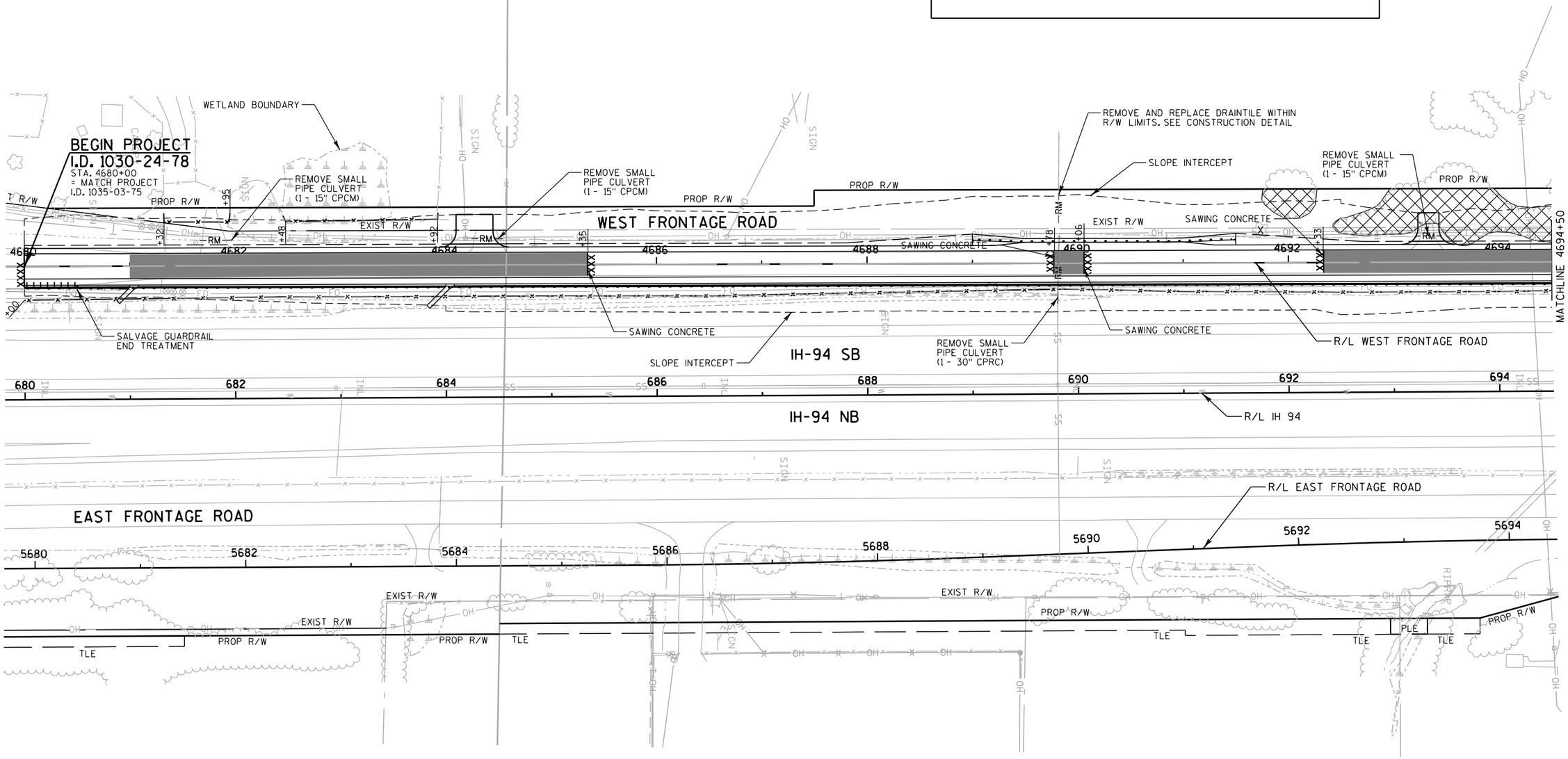
PROJECT NO: 1030-24-78	HWY: IH 94	COUNTY: RACINE	BOX CULVERT INLET REMOVAL & REPAIR	SHEET 24	E

2

LEGEND

- CLEARING AND GRUBBING (I.D.)
- CLEARING AND GRUBBING (STA.)
- REMOVING PAVEMENT
- REMOVING CURB AND GUTTER
- REMOVING FENCE
- REMOVING GUARDRAIL
- REMOVING INLETS
- REMOVING MANHOLES
- SLOPE INTERCEPT
- ABANDONING STORM SEWER
- REMOVING STORM SEWER, CULVERTS, OR DRAIN TILE

NOTE: REMOVING CONCRETE PAVEMENT LIMITS:
4680+00 - 4685+35
4689+82 - 4690+06
4692+33 - 4704+00



PROJECT NO: 1030-24-78	HWY: IH 94	COUNTY: RACINE	REMOVAL PLAN: WEST FRONTAGE ROAD	SHEET 25	E

LEGEND

- CLEARING AND GRUBBING (I.D.)
- CLEARING AND GRUBBING (STA.)
- REMOVING PAVEMENT
- REMOVING CURB AND GUTTER
- REMOVING FENCE
- REMOVING GUARDRAIL
- REMOVING INLETS
- REMOVING MANHOLES
- SLOPE INTERCEPT
- ABANDONING STORM SEWER
- REMOVING STORM SEWER, CULVERTS, OR DRAIN TILE

N

R/L PRIVATE DRIVEWAY "W"

UNNAMED TRIBUTARY TO KILBOURN ROAD DITCH

REMOVE SMALL PIPE CULVERT (1 - 15" CPCM)

WETLAND BOUNDARY

SLOPE INTERCEPT

PROP R/W

TLE

WEST FRONTAGE ROAD

EXIST R/W

CEMETERY

R/L WEST FRONTAGE ROAD

MATCHLINE 4694+50

MATCHLINE 4709+50

REMOVE STORM SEWER (1 - 15" SSPCM)

REMOVING ABANDONED BOX CULVERT

IH-94 SB

IH-94 NB

R/L IH 94

EAST FRONTAGE ROAD

R/L EAST FRONTAGE ROAD

PROJECT NO: 1030-24-78	HWY: IH 94	COUNTY: RACINE	REMOVAL PLAN: WEST FRONTAGE ROAD	SHEET	E

FILE NAME : Z:\Racine\CADDS\12\12W\CDS\021102_RM.dgn PLOT DATE : 7/27/2017 PLOT BY : cory.ihde PLOT NAME : PLOT SCALE : 1:100

LEGEND

- CLEARING AND GRUBBING (I.D.)
- CLEARING AND GRUBBING (STA.)
- REMOVING PAVEMENT
- REMOVING CURB AND GUTTER
- REMOVING FENCE
- REMOVING GUARDRAIL
- REMOVING INLETS
- REMOVING MANHOLES
- SLOPE INTERCEPT
- ABANDONING STORM SEWER
- REMOVING STORM SEWER, CULVERTS, OR DRAIN TILE

N

GIN CONSTRUCTION
A. 47+50
CH EXISTING

BRAUN RD

EXIST R/W

STATION EQUATION
STA. 4711+25.94 BK=
STA. 2711+35.24 AH=
STA. 49+75.09 BRAUN RD.

R/L WEST FRONTAGE ROAD

WETLAND BOUNDARY

SLOPE INTERCEPT

PROP R/W

WEST FRONTAGE ROAD

MATCHLINE 2724+50

REMOVE SMALL PIPE CULVERT (1 - 24" CPCM)

REMOVE MARKERS

REMOVE SMALL PIPE CULVERT (1 - 30" CPCM)

REMOVE MARKER

REMOVE SMALL PIPE CULVERT (1 - 24" CPCM)

MATCHLINE 4709+50

IH-94 SB

IH-94 NB

R/L IH 94

END CONSTRUCTION
STA. 50+65
MATCH EXISTING

R/L EAST FRONTAGE ROAD

EAST FRONTAGE ROAD

EXIST R/W

PROP R/W

TLE

PROJECT NO: 1030-24-78	HWY: IH 94	COUNTY: RACINE	REMOVAL PLAN: WEST FRONTAGE ROAD	SHEET 27	E

LEGEND

- CLEARING AND GRUBBING (I.D.)
- CLEARING AND GRUBBING (STA.)
- REMOVING PAVEMENT
- REMOVING CURB AND GUTTER
- REMOVING FENCE
- REMOVING GUARDRAIL
- REMOVING INLETS
- REMOVING MANHOLES
- SLOPE INTERCEPT
- ABANDONING STORM SEWER
- REMOVING STORM SEWER, CULVERTS, OR DRAIN TILE

N

POSSIBLE DRAINTILE: DRAINTILE EXPLORATION REQ'D REMOVE AND REPLACE DRAINTILE WITHIN R/W LIMITS AS REQUIRED TO MAINTAIN DRAINAGE.

REMOVE AND REPLACE DRAINTILE WITHIN R/W LIMITS. SEE CONSTRUCTION DETAIL

POSSIBLE DRAINTILE: DRAINTILE EXPLORATION REQ'D REMOVE AND REPLACE DRAINTILE WITHIN R/W LIMITS AS REQUIRED TO MAINTAIN DRAINAGE.

REMOVE AND REPLACE DRAINTILE WITHIN R/W LIMITS. SEE CONSTRUCTION DETAIL

SLOPE INTERCEPT

PROP R/W

TLE

MATCHLINE 2724+50

WEST FRONTAGE ROAD

2726 2728 2730 2732 2734 2736 2738

REMOVE SMALL PIPE CULVERT (1 - 15" CPCM)

REMOVE SMALL PIPE CULVERT (2 - 48" CPCM)

EXIST R/W

R/L WEST FRONTAGE ROAD

SLOPE INTERCEPT

END PROJECT
I.D. 1030-24-78
STA. 2737+00
= MATCH PROJECT
I.D. 1030-24-74

WETLAND BOUNDARY

IH-94 SB

IH-94 NB

726 728 730 732 734 736 738

R/L IH 94

EAST FRONTAGE ROAD

3726 3728 3730 3732 3734

R/L EAST FRONTAGE ROAD

EXIST R/W

PROP R/W

TLE

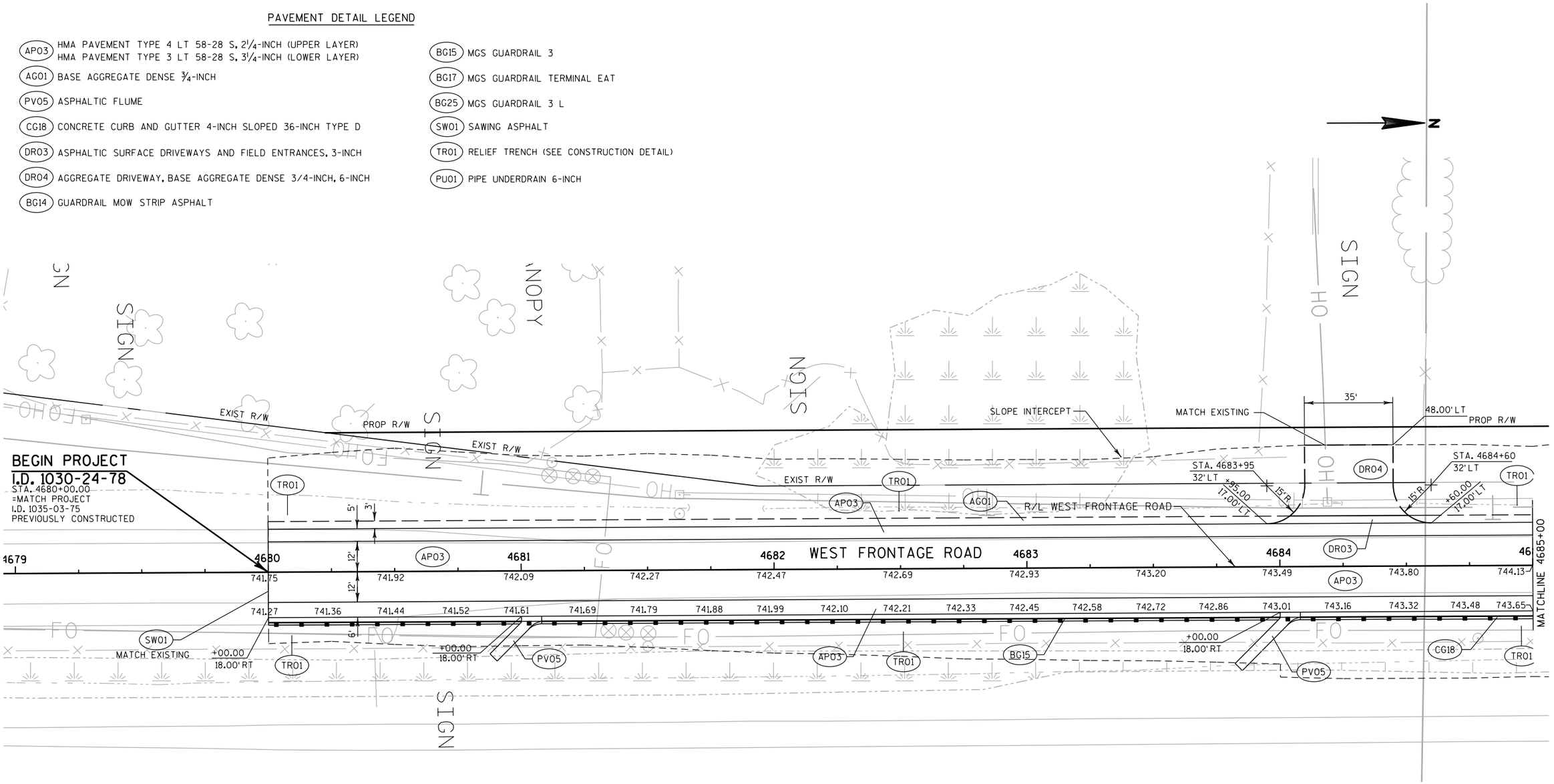
PROJECT NO: 1030-24-78	HWY: IH 94	COUNTY: RACINE	REMOVAL PLAN: WEST FRONTAGE ROAD	SHEET 28	E

FILE NAME : Z:\Racine\CADDS\12\12W\CDS\021104_RM.dgn PLOT DATE : 7/27/2017 PLOT BY : cory.ihde PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

PAVEMENT DETAIL LEGEND

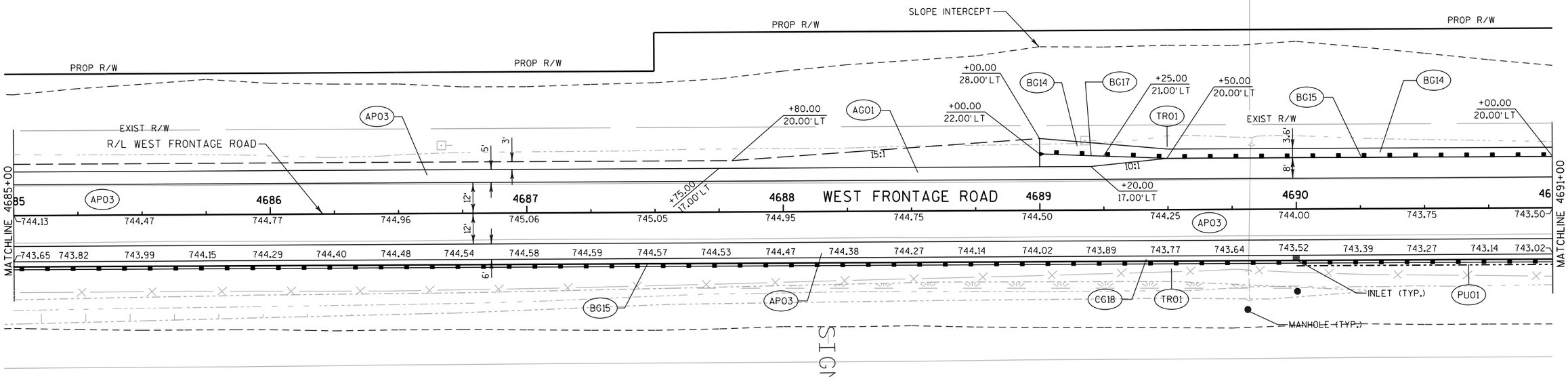
- APO3 HMA PAVEMENT TYPE 4 LT 58-28 S, 2¼-INCH (UPPER LAYER)
  HMA PAVEMENT TYPE 3 LT 58-28 S, 3¼-INCH (LOWER LAYER)
- AG01 BASE AGGREGATE DENSE ¾-INCH
- PV05 ASPHALTIC FLUME
- CG18 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- DR03 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- DR04 AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH, 6-INCH
- BG14 GUARDRAIL MOW STRIP ASPHALT
- BG15 MGS GUARDRAIL 3
- BG17 MGS GUARDRAIL TERMINAL EAT
- BG25 MGS GUARDRAIL 3 L
- SW01 SAWING ASPHALT
- TR01 RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- PU01 PIPE UNDERDRAIN 6-INCH


N
SIGN
CANOPY
SIGN
SIGN
EXIST R/W
PROP R/W
EXIST R/W
EXIST R/W
SLOPE INTERCEPT
MATCH EXISTING
35'
48.00' LT
PROP R/W
STA. 4684+60
32' LT
STA. 4683+95
32' LT
+95.00
17.00' LT
15' R
+60.00
17.00' LT
15' R
BEGIN PROJECT
I.D. 1030-24-78
STA. 4680+00.00
=MATCH PROJECT
I.D. 1035-03-75
PREVIOUSLY CONSTRUCTED
R/L WEST FRONTAGE ROAD
WEST FRONTAGE ROAD
4679
4680
4681
4682
4683
4684
4685
4685+00
MATCHLINE
741.75
741.92
742.09
742.27
742.47
742.69
742.93
743.20
743.49
743.80
744.13
741.27
741.36
741.44
741.52
741.61
741.69
741.79
741.88
741.99
742.10
742.21
742.33
742.45
742.58
742.72
742.86
743.01
743.16
743.32
743.48
743.65
5'
3'
12'
12'
6"
SW01
MATCH EXISTING
+00.00
18.00' RT
+00.00
18.00' RT
+00.00
18.00' RT
TR01
PV05
AP03
TR01
AG01
TR01
BG15
PV05
DR04
DR03
AP03
CG18
TR01
TR01
AP03
AP03
SIGN
SIGN
SIGN

PAVEMENT DETAIL LEGEND

- (AP03) HMA PAVEMENT TYPE 4 LT 58-28 S, 2¼-INCH (UPPER LAYER)
  HMA PAVEMENT TYPE 3 LT 58-28 S, 3¼-INCH (LOWER LAYER)
- (AG01) BASE AGGREGATE DENSE ¾-INCH
- (PV05) ASPHALTIC FLUME
- (CG18) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- (DR03) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- (DR04) AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH, 6-INCH
- (BG14) GUARDRAIL MOW STRIP ASPHALT
- (BG15) MGS GUARDRAIL 3
- (BG17) MGS GUARDRAIL TERMINAL EAT
- (BG25) MGS GUARDRAIL 3 L
- (SW01) SAWING ASPHALT
- (TR01) RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- (PU01) PIPE UNDERDRAIN 6-INCH

N



N SIGN

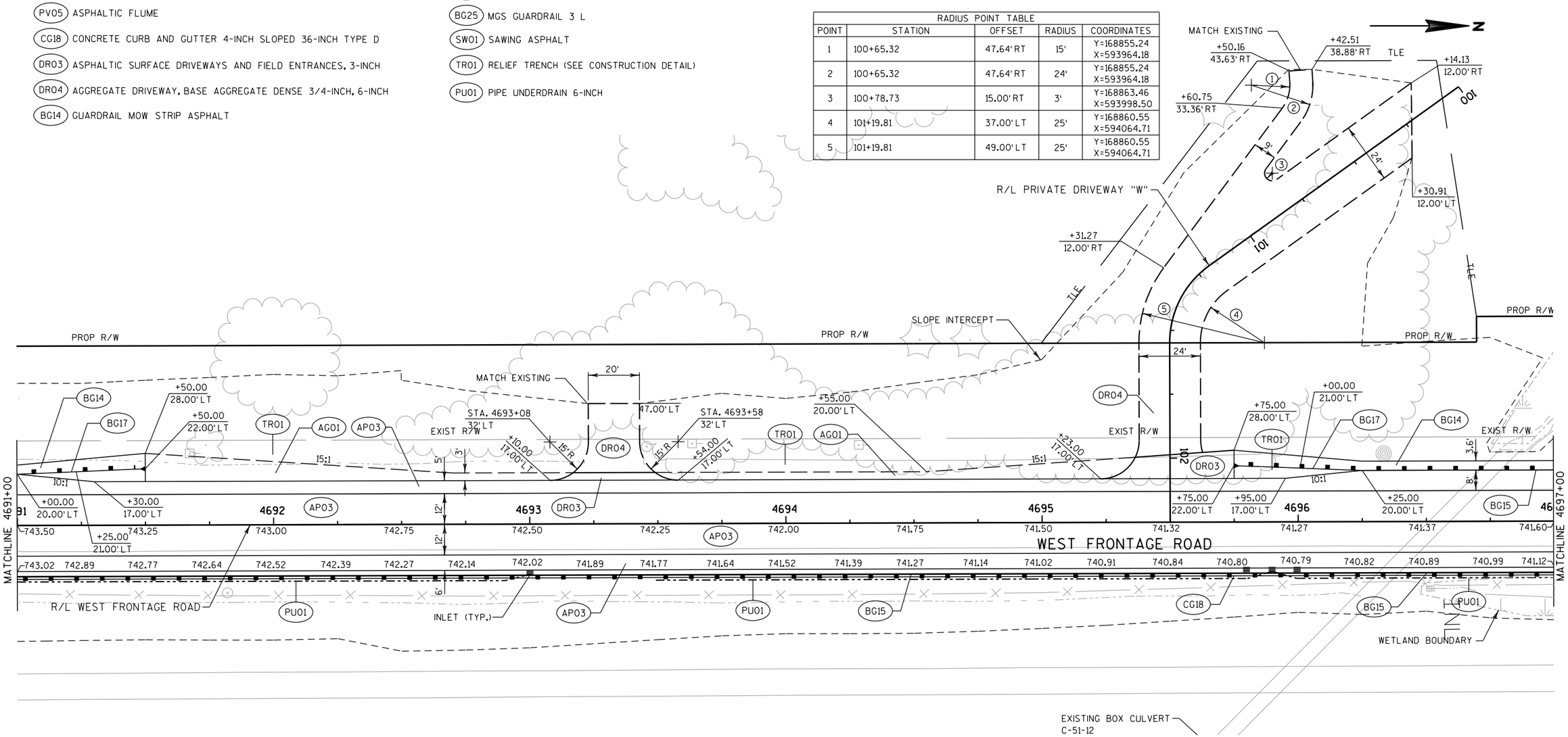
PROJECT NO: 1030-24-78	HWY: IH 94	COUNTY: RACINE	PLAN DETAILS: WEST FRONTAGE ROAD	SHEET 30	E

FILE NAME : Z:\Racine\CADDS\12\12W\CDS\021202_PD.dgn PLOT DATE : 9/18/2017 PLOT BY : cory.ihde PLOT NAME : PLOT SCALE : 1:40

PAVEMENT DETAIL LEGEND

- APO3 — HMA PAVEMENT TYPE 4 LT 58-28 S, 2¼-INCH (UPPER LAYER) / HMA PAVEMENT TYPE 3 LT 58-28 S, 3¼-INCH (LOWER LAYER)
- AGO1 — BASE AGGREGATE DENSE ¾-INCH
- PVO5 — ASPHALTIC FLUME
- CG18 — CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- DRO3 — ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- DRO4 — AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH, 6-INCH
- BG14 — GUARDRAIL MOW STRIP ASPHALT
- BG15 — MGS GUARDRAIL 3
- BG17 — MGS GUARDRAIL TERMINAL EAT
- BG25 — MGS GUARDRAIL 3 L
- SWO1 — SAWING ASPHALT
- TRO1 — RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- PUO1 — PIPE UNDERDRAIN 6-INCH

RADIUS POINT TABLE				
POINT	STATION	OFFSET	RADIUS	COORDINATES
1	100+65.32	47.64' RT	15'	Y=168855.24 X=593964.18
2	100+65.32	47.64' RT	24'	Y=168855.24 X=593964.18
3	100+78.73	15.00' RT	3'	Y=168863.46 X=593998.50
4	101+19.81	37.00' LT	25'	Y=168860.55 X=594064.71
5	101+19.81	49.00' LT	25'	Y=168860.55 X=594064.71

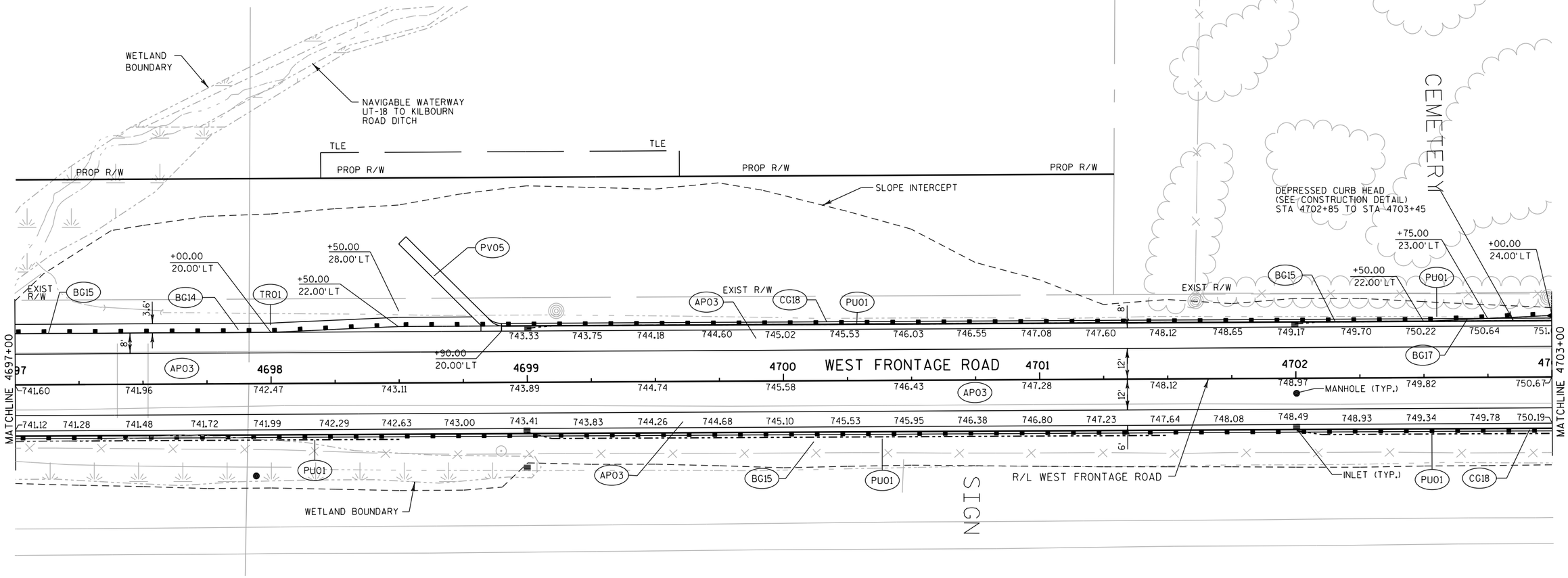


PROJECT NO: 1030-24-78	HWY: IH 94	COUNTY: RACINE	PLAN DETAILS: WEST FRONTAGE ROAD	SHEET 31	E

2

PAVEMENT DETAIL LEGEND

- (AP03) HMA PAVEMENT TYPE 4 LT 58-28 S, 2¼-INCH (UPPER LAYER)
  HMA PAVEMENT TYPE 3 LT 58-28 S, 3¼-INCH (LOWER LAYER)
- (AG01) BASE AGGREGATE DENSE ¾-INCH
- (PV05) ASPHALTIC FLUME
- (CG18) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- (DR03) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- (DR04) AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH, 6-INCH
- (BG14) GUARDRAIL MOW STRIP ASPHALT
- (BG15) MGS GUARDRAIL 3
- (BG17) MGS GUARDRAIL TERMINAL EAT
- (BG25) MGS GUARDRAIL 3 L
- (SW01) SAWING ASPHALT
- (TR01) RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- (PU01) PIPE UNDERDRAIN 6-INCH

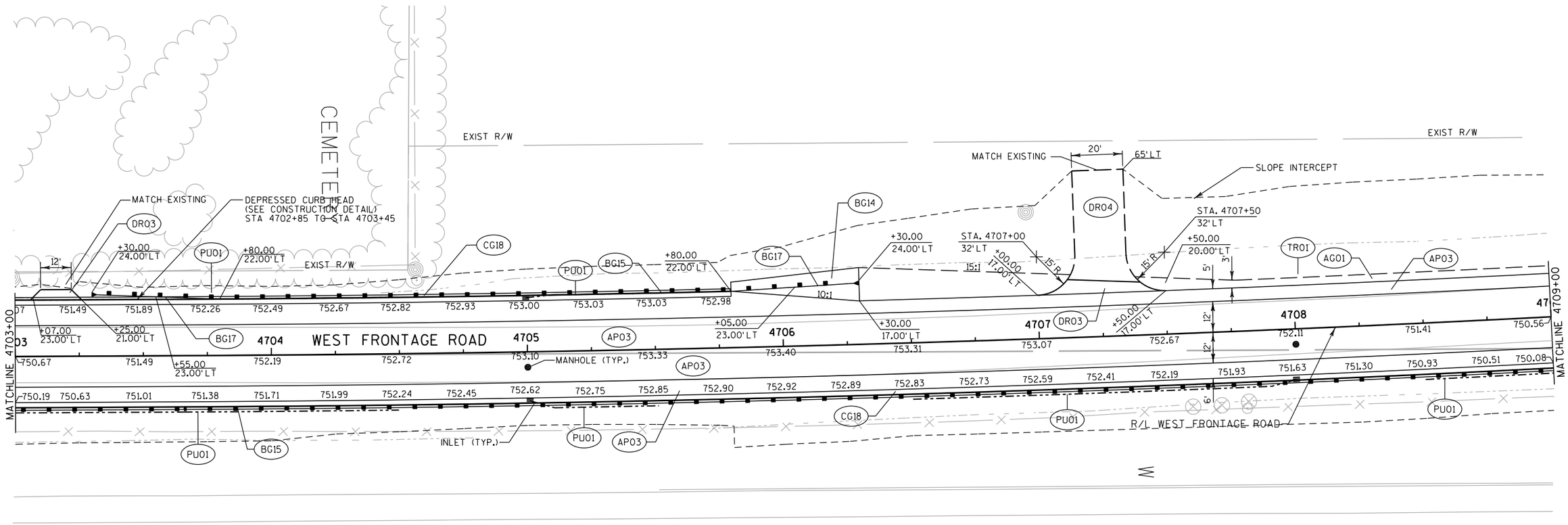


PROJECT NO: 1030-24-78	HWY: IH 94	COUNTY: RACINE	PLAN DETAILS: WEST FRONTAGE ROAD	SHEET 32	E

FILE NAME : Z:\Racine\CADDS\12\12W\CDS\021204_PD.dgn PLOT DATE : 9/18/2017 PLOT BY : cory.ihde PLOT NAME : PLOT SCALE : 1:40

PAVEMENT DETAIL LEGEND

- (APO3) HMA PAVEMENT TYPE 4 LT 58-28 S, 2¼-INCH (UPPER LAYER)
  HMA PAVEMENT TYPE 3 LT 58-28 S, 3¼-INCH (LOWER LAYER)
- (AG01) BASE AGGREGATE DENSE ¾-INCH
- (PV05) ASPHALTIC FLUME
- (CG18) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- (DR03) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- (DR04) AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH, 6-INCH
- (BG14) GUARDRAIL MOW STRIP ASPHALT
- (BG15) MGS GUARDRAIL 3
- (BG17) MGS GUARDRAIL TERMINAL EAT
- (BG25) MGS GUARDRAIL 3 L
- (SW01) SAWING ASPHALT
- (TR01) RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- (PU01) PIPE UNDERDRAIN 6-INCH



PROJECT NO: 1030-24-78	HWY: IH 94	COUNTY: RACINE	PLAN DETAILS: WEST FRONTAGE ROAD	SHEET 33	E

FILE NAME : Z:\Racine\CADDS\12\12W\CDS\021205_PD.dgn PLOT DATE : 9/18/2017 PLOT BY : cory.ihde PLOT NAME : PLOT SCALE : 1:40

RADIUS TABLE					
POINT	STATION	OFFSET	STATION	OFFSET	RADIUS
1	4710+72.56	53.00' RT	50+32.57	49.00' RT	35'
2	2711+82.10	53.00' RT	50+23.80	50.60' LT	35'
3	2712+18.88	78.00' LT	48+91.45	78.00' LT	60'
4	4710+71.85	58.00' LT	49+21.00	58.00' RT	40'

N

PAVEMENT DETAIL LEGEND

- APO3 — HMA PAVEMENT TYPE 4 LT 58-28 S, 2¼-INCH (UPPER LAYER); HMA PAVEMENT TYPE 3 LT 58-28 S, 3¼-INCH (LOWER LAYER)
- AGO1 — BASE AGGREGATE DENSE ¾-INCH
- PVO5 — ASPHALTIC FLUME
- CG18 — CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- DRO3 — ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- DRO4 — AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH, 6-INCH
- BG14 — GUARDRAIL MOW STRIP ASPHALT
- BG15 — MGS GUARDRAIL 3
- BG17 — MGS GUARDRAIL TERMINAL EAT
- BG25 — MGS GUARDRAIL 3 L
- SWO1 — SAWING ASPHALT
- TRO1 — RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- PUO1 — PIPE UNDERDRAIN 6-INCH

BEGIN CONSTRUCTION
STA 47+50

SWO1 MATCH EXISTING

C/L BRAUN ROAD

BRAUN ROAD

R/L BRAUN ROAD

HMOD1 DO NO DISTRUB

EXIST R/W

SLOPE INTERCEPT

STA. 4711+25.94
TYPE D INTERSECTION REQ'D.

DEPRESSED CURB HEAD
(SEE CONSTRUCTION DETAIL)
STA 4710+33 TO STA 4710+67

INLET (TYP.)

NOTE:
SAW CUTTING ASPHALT ENDS AT STA 50+65
REQUIRED FOR STORM SEWER INSTALLATION.
SEE STORM SEWER PLAN AND PROFILE

END CONSTRUCTION
STA 50+65
MATCH PROJECT I.D. 1030-24-77

STATION EQUATION
STA. 4711+25.94 BK=
STA. 2711+35.24 AH=
STA. 49+75.09 BRAUN RD.

R/L WEST FRONTAGE ROAD

WEST FRONTAGE ROAD

MATCHLINE 4709+00

MATCHLINE 2715+00

DEPRESSED CURB HEAD
(SEE CONSTRUCTION DETAIL)
STA 2711+91 TO STA 2712+24

WETLAND BOUNDARY

PROP R/W

EXIST R/W

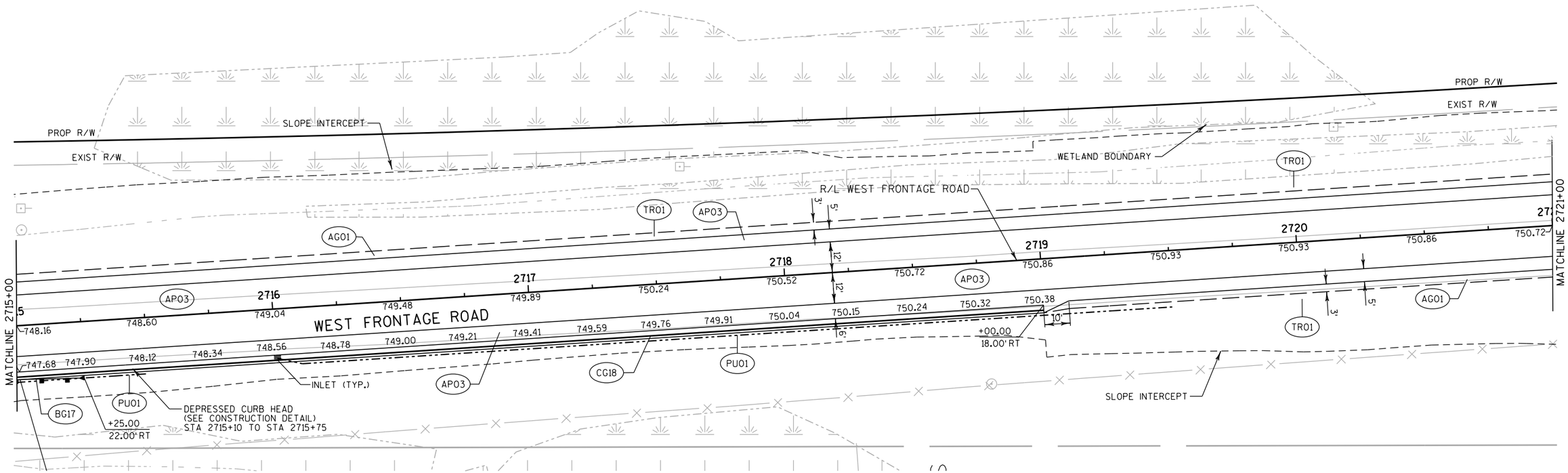
MANHOLE (TYP.)

PROJECT NO: 1030-24-78	HWY: IH 94	COUNTY: RACINE	PLAN DETAILS: WEST FRONTAGE ROAD	SHEET 34	E

PAVEMENT DETAIL LEGEND

- (AP03) HMA PAVEMENT TYPE 4 LT 58-28 S, 2¼-INCH (UPPER LAYER)
  HMA PAVEMENT TYPE 3 LT 58-28 S, 3¼-INCH (LOWER LAYER)
- (AG01) BASE AGGREGATE DENSE ¾-INCH
- (PV05) ASPHALTIC FLUME
- (CG18) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- (DR03) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- (DR04) AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH, 6-INCH
- (BG14) GUARDRAIL MOW STRIP ASPHALT
- (BG15) MGS GUARDRAIL 3
- (BG17) MGS GUARDRAIL TERMINAL EAT
- (BG25) MGS GUARDRAIL 3 L
- (SW01) SAWING ASPHALT
- (TR01) RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- (PU01) PIPE UNDERDRAIN 6-INCH

N



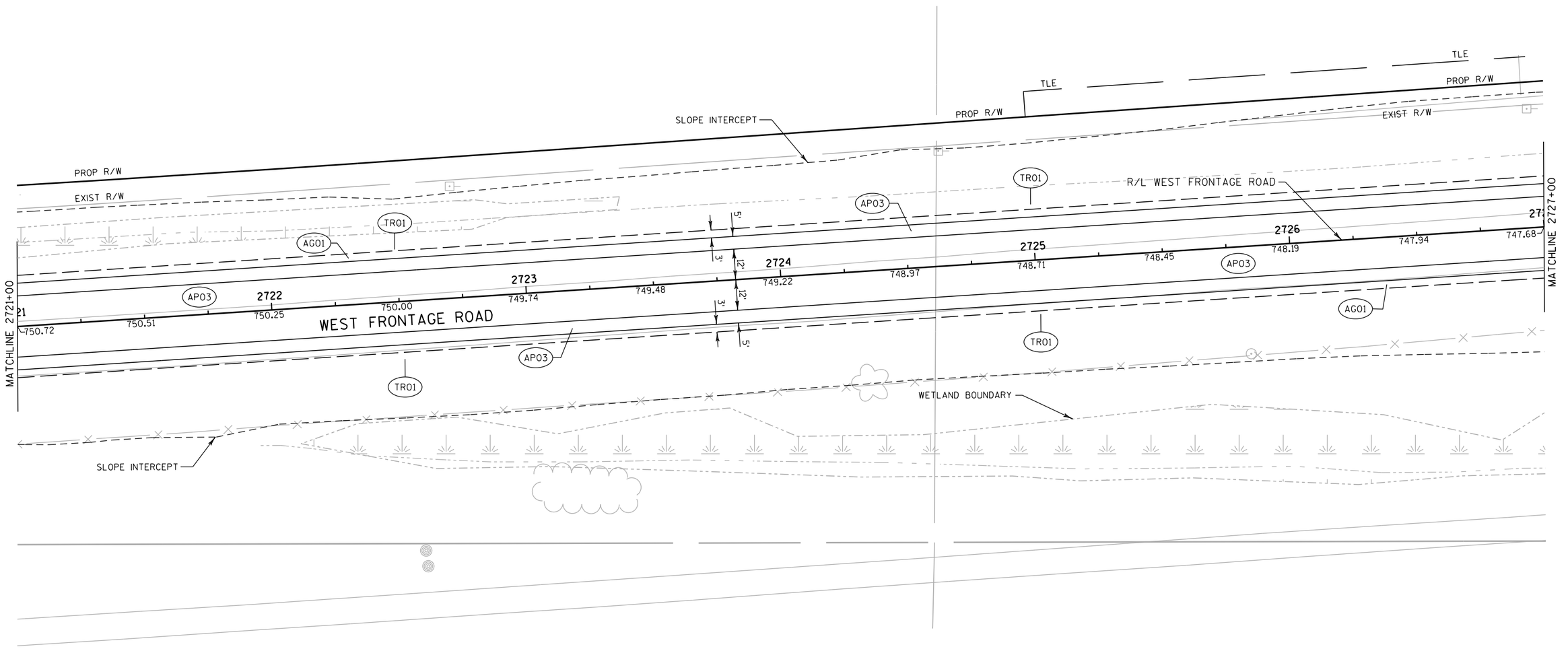
PROJECT NO: 1030-24-78	HWY: IH 94	COUNTY: RACINE	PLAN DETAILS: WEST FRONTAGE ROAD	SHEET 35	E

FILE NAME : Z:\Racine\CADDS\12\12W\CDS\021207_PD.dgn PLOT DATE : 9/18/2017 PLOT BY : cory.ihde PLOT NAME : PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

PAVEMENT DETAIL LEGEND

- APO3 — HMA PAVEMENT TYPE 4 LT 58-28 S, 2¼-INCH (UPPER LAYER) HMA PAVEMENT TYPE 3 LT 58-28 S, 3¼-INCH (LOWER LAYER)
- AGO1 — BASE AGGREGATE DENSE ¾-INCH
- PVO5 — ASPHALTIC FLUME
- CG18 — CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- DRO3 — ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- DRO4 — AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH, 6-INCH
- BG14 — GUARDRAIL MOW STRIP ASPHALT
- BG15 — MGS GUARDRAIL 3
- BG17 — MGS GUARDRAIL TERMINAL EAT
- BG25 — MGS GUARDRAIL 3 L
- SWO1 — SAWING ASPHALT
- TRO1 — RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- PUO1 — PIPE UNDERDRAIN 6-INCH



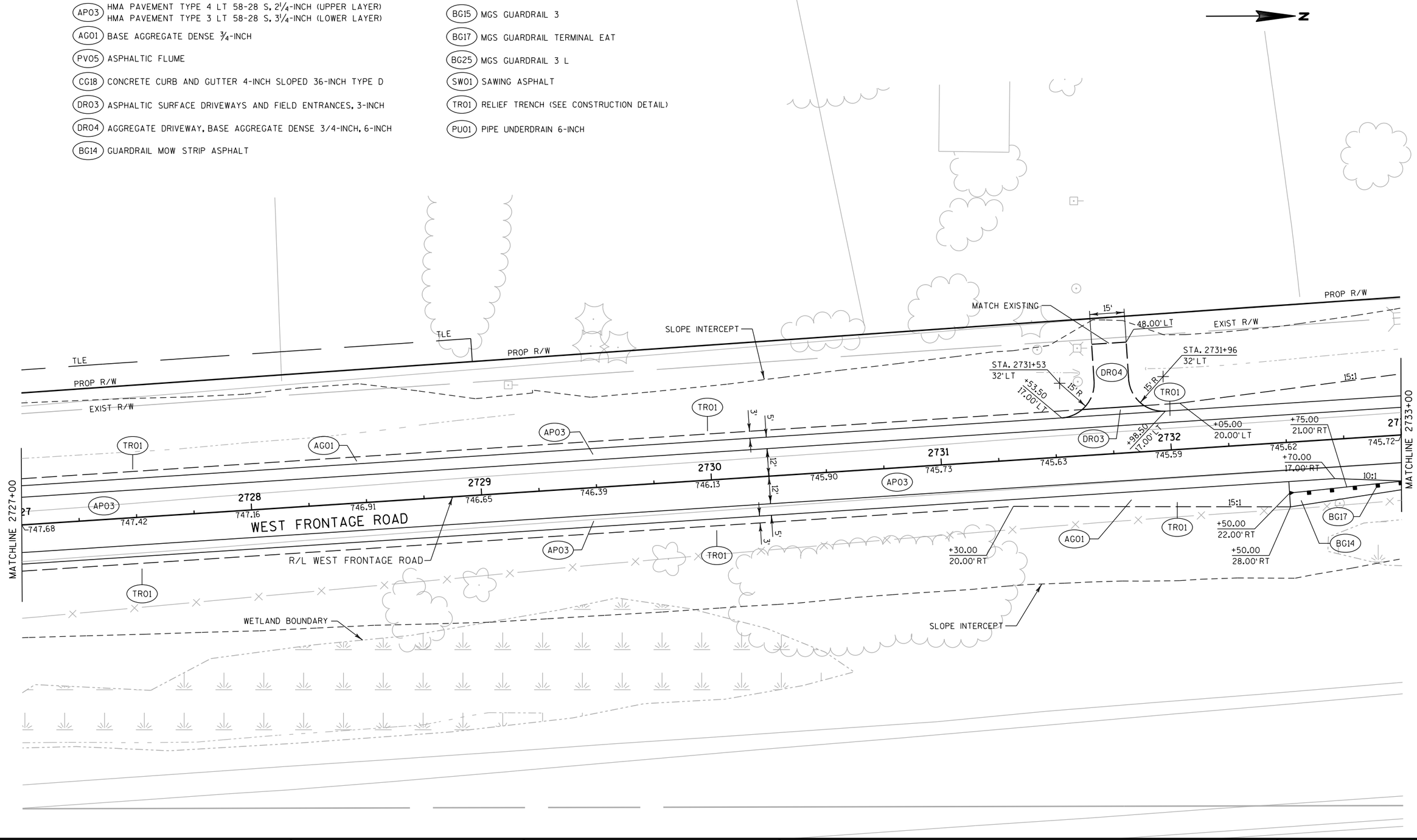
PROJECT NO: 1030-24-78	HWY: IH 94	COUNTY: RACINE	PLAN DETAILS: WEST FRONTAGE ROAD	SHEET 36	E

FILE NAME : Z:\Racine\CADDS\12\12W\CDS\021208_PD.dgn PLOT DATE : 9/18/2017 PLOT BY : cory.ihde PLOT NAME : PLOT SCALE : 1:40

2

PAVEMENT DETAIL LEGEND

- (AP03) HMA PAVEMENT TYPE 4 LT 58-28 S, 2¼-INCH (UPPER LAYER)
  HMA PAVEMENT TYPE 3 LT 58-28 S, 3¼-INCH (LOWER LAYER)
- (AG01) BASE AGGREGATE DENSE ¾-INCH
- (PV05) ASPHALTIC FLUME
- (CG18) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- (DR03) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- (DR04) AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH, 6-INCH
- (BG14) GUARDRAIL MOW STRIP ASPHALT
- (BG15) MGS GUARDRAIL 3
- (BG17) MGS GUARDRAIL TERMINAL EAT
- (BG25) MGS GUARDRAIL 3 L
- (SW01) SAWING ASPHALT
- (TR01) RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- (PU01) PIPE UNDERDRAIN 6-INCH



PROJECT NO: 1030-24-78	HWY: IH 94	COUNTY: RACINE	PLAN DETAILS: WEST FRONTAGE ROAD	SHEET 37	E

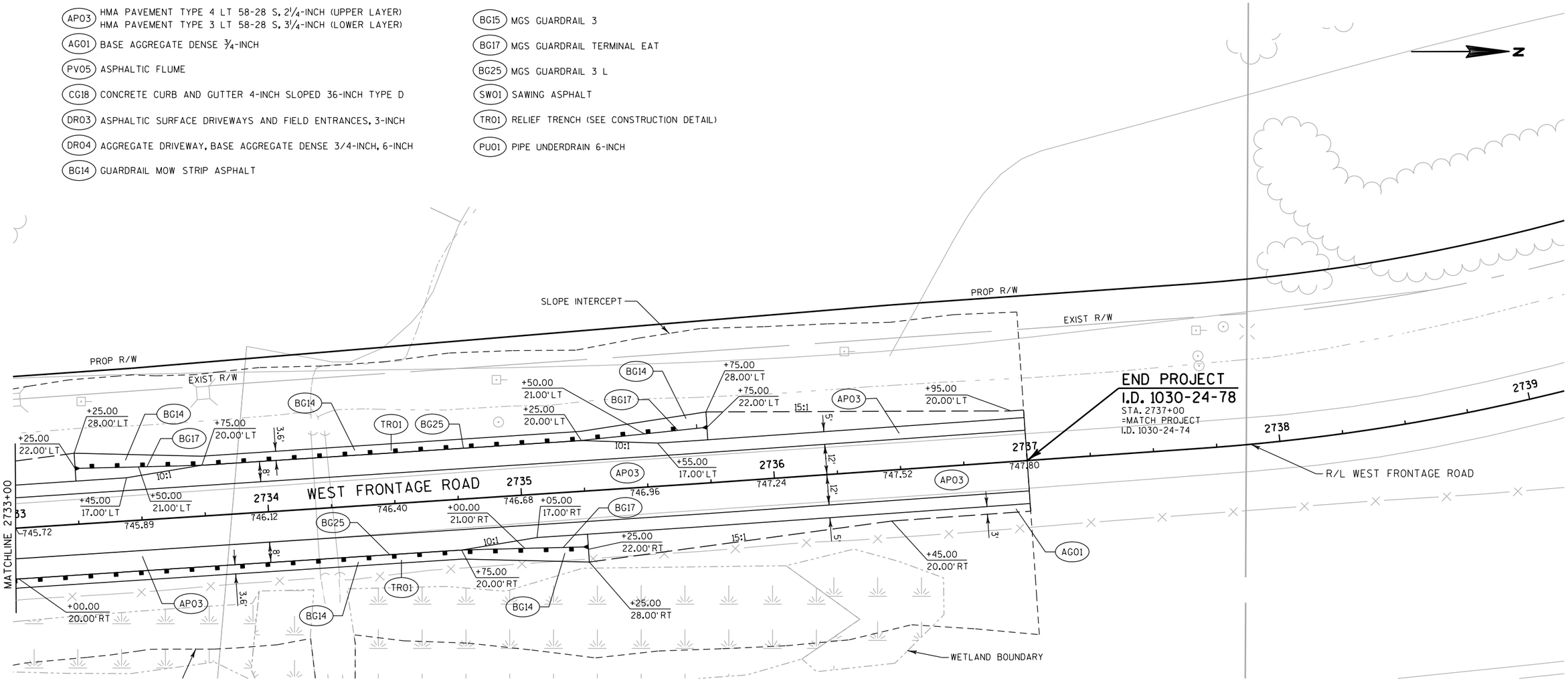
FILE NAME : Z:\Racine\CADDS\12\12W\CDS\021209_PD.dgn PLOT DATE : 9/18/2017 PLOT BY : cory.ihde PLOT NAME : PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

2

PAVEMENT DETAIL LEGEND

- (APO3) HMA PAVEMENT TYPE 4 LT 58-28 S, 2¼-INCH (UPPER LAYER)
  HMA PAVEMENT TYPE 3 LT 58-28 S, 3¼-INCH (LOWER LAYER)
- (AGO1) BASE AGGREGATE DENSE ¾-INCH
- (PVO5) ASPHALTIC FLUME
- (CG18) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- (DRO3) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- (DRO4) AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH, 6-INCH
- (BG14) GUARDRAIL MOW STRIP ASPHALT
- (BG15) MGS GUARDRAIL 3
- (BG17) MGS GUARDRAIL TERMINAL EAT
- (BG25) MGS GUARDRAIL 3 L
- (SWO1) SAWING ASPHALT
- (TRO1) RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- (PUO1) PIPE UNDERDRAIN 6-INCH



PROJECT NO: 1030-24-78	HWY: IH 94	COUNTY: RACINE	PLAN DETAILS: WEST FRONTAGE ROAD	SHEET 38	E

FILE NAME : Z:\Racine\CADDS\12\12W\CDS\021210_PD.dgn PLOT DATE : 9/18/2017 PLOT BY : cory.ihde PLOT NAME : PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

NOTES:

1) WHEN INLET PROTECTION TYPE A AND TYPE C OR D ARE INDICATED AT THE SAME LOCATION, USE TYPE A PRIOR TO THE PLACEMENT OF CURB AND GUTTER AND USE TYPE C OR D AFTER THE INLET CASTINGS ARE IN PLACE.

2) IN WETLAND AREAS, INSTALL SILT FENCE TO THE STATIONS AND OFFSETS INDICATED.

3) RESTORE FENCE REMOVAL LOCATIONS OUTSIDE OF EXCAVATION LIMITS.

N

BEGIN PROJECT
I.D. 1030-24-78
STA. 4680+00
=MATCH PROJECT
I.D. 1035-03-75
(PREVIOUSLY CONSTRUCTED)

SLOPE INTERCEPT
4681+75.00
48.00'LT
4681+91.06
48.00'LT
4682+00.00
45.43'LT
4683+00.00
44.90'LT
4683+50.00
45.90'LT
4684+00.00
47.61'LT

SEEDING MIXTURE NO. 40
APPROX. STA. 4684+25 TO 4700+50

RIP RAP LIGHT
L = 12 FT
W = 6 FT

PROP R/W
EXIST R/W
WEST FRONTAGE ROAD
ASPH
SLOPE INTERCEPT
R/L WEST FRONTAGE ROAD
IH-94 SB
IH-94 NB
R/L IH 94
MATCHLINE 4694+50

4680 4682 4684 4686 4688 4690 4692 4694

680 682 684 686 688 690 692 694

EAST FRONTAGE ROAD
WETLAND BOUNDARY
R/L EAST FRONTAGE ROAD
TLE
PLE

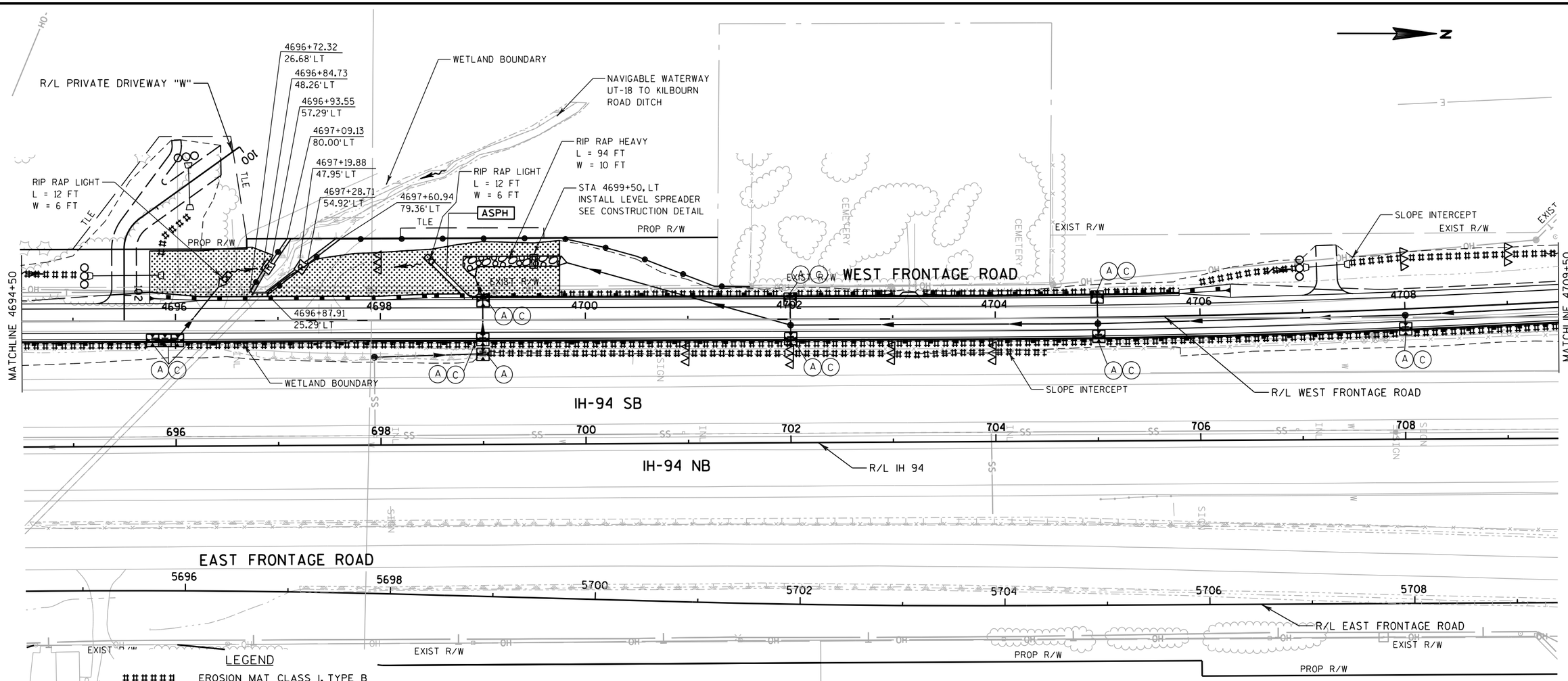
5680 5682 5684 5686 5688 5690 5692 5694

LEGEND

- EROSION MAT CLASS I, TYPE B
- EROSION MAT URBAN CLASS I, TYPE B
- SILT FENCE
- HEAVY DUTY SILT FENCE
- ROCK BAGS
- RIP RAP (HEAVY UNLESS NOTED)
- EROSION BALE
- SLOPE INTERCEPT
- ASPHALTIC FLUME
- INLET PROTECTION TYPE A
- INLET PROTECTION TYPE C
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW

PROJECT NO: 1030-24-78	HWY: IH 94	COUNTY: RACINE	EROSION CONTROL: WEST FRONTAGE ROAD	SHEET 39	E

FILE NAME : Z:\Racine\CADDS\12\12W\CDS\022001_EC.dgn PLOT DATE : 9/18/2017 PLOT BY : cory.ihde PLOT NAME : PLOT SCALE : 1:100



LEGEND

- EROSION MAT CLASS I, TYPE B
- EROSION MAT URBAN CLASS I, TYPE B
- SILT FENCE
- HEAVY DUTY SILT FENCE
- ROCK BAGS
- RIP RAP (HEAVY UNLESS NOTED)
- EROSION BALE
- SLOPE INTERCEPT
- ASPHALTIC FLUME
- INLET PROTECTION TYPE A
- INLET PROTECTION TYPE C
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW

NOTES:

1) WHEN INLET PROTECTION TYPE A AND TYPE C OR D ARE INDICATED AT THE SAME LOCATION, USE TYPE A PRIOR TO THE PLACEMENT OF CURB AND GUTTER AND USE TYPE C OR D AFTER THE INLET CASTINGS ARE IN PLACE.

2) IN WETLAND AREAS, INSTALL SILT FENCE TO THE STATIONS AND OFFSETS INDICATED.

3) RESTORE FENCE REMOVAL LOCATIONS OUTSIDE OF EXCAVATION LIMITS.

PROJECT NO: 1030-24-78	HWY: IH 94	COUNTY: RACINE	EROSION CONTROL: WEST FRONTAGE ROAD	SHEET 40	E

NOTES:

1) WHEN INLET PROTECTION TYPE A AND TYPE C OR D ARE INDICATED AT THE SAME LOCATION, USE TYPE A PRIOR TO THE PLACEMENT OF CURB AND GUTTER AND USE TYPE C OR D AFTER THE INLET CASTINGS ARE IN PLACE.

2) IN WETLAND AREAS, INSTALL SILT FENCE TO THE STATIONS AND OFFSETS INDICATED.

3) RESTORE FENCE REMOVAL LOCATIONS OUTSIDE OF EXCAVATION LIMITS.

N

STATION EQUATION
STA. 4711+25.94 BK=
STA. 2711+35.24 AH=
STA. 49+75.09 BRAUN RD.

MATCHLINE 4709+50

MATCHLINE 2724+50

WEST FRONTAGE ROAD

EAST FRONTAGE ROAD

IH-94 SB

IH-94 NB

BRAUN ROAD

R/L BRAUN ROAD

R/L IH 94

R/L WEST FRONTAGE ROAD

R/L EAST FRONTAGE ROAD

WETLAND BOUNDARY

2715+00.00
53.78' LT

2715+50.07
54.36' LT

2718+00.07
50.10' LT

2719+50.17
48.38' LT

2720+50.00
47.20' LT

2721+93.30
52.53' RT

2724+43.24
49.94' RT

SLOPE INTERCEPT

PROP R/W

EXIST R/W

ASPH

LEGEND

- EROSION MAT CLASS I, TYPE B
- EROSION MAT URBAN CLASS I, TYPE B
- SILT FENCE
- HEAVY DUTY SILT FENCE
- ROCK BAGS
- RIP RAP (HEAVY UNLESS NOTED)
- EROSION BALE
- SLOPE INTERCEPT
- ASPHALTIC FLUME
- INLET PROTECTION TYPE A
- INLET PROTECTION TYPE C
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW

PROJECT NO: 1030-24-78	HWY: IH 94	COUNTY: RACINE	EROSION CONTROL: WEST FRONTAGE ROAD	SHEET 41	E

FILE NAME : Z:\Racine\CADDS\12\12W\CDS\022003_EC.dgn PLOT DATE : 9/18/2017 PLOT BY : cory.ihde PLOT NAME : PLOT SCALE : 1:100

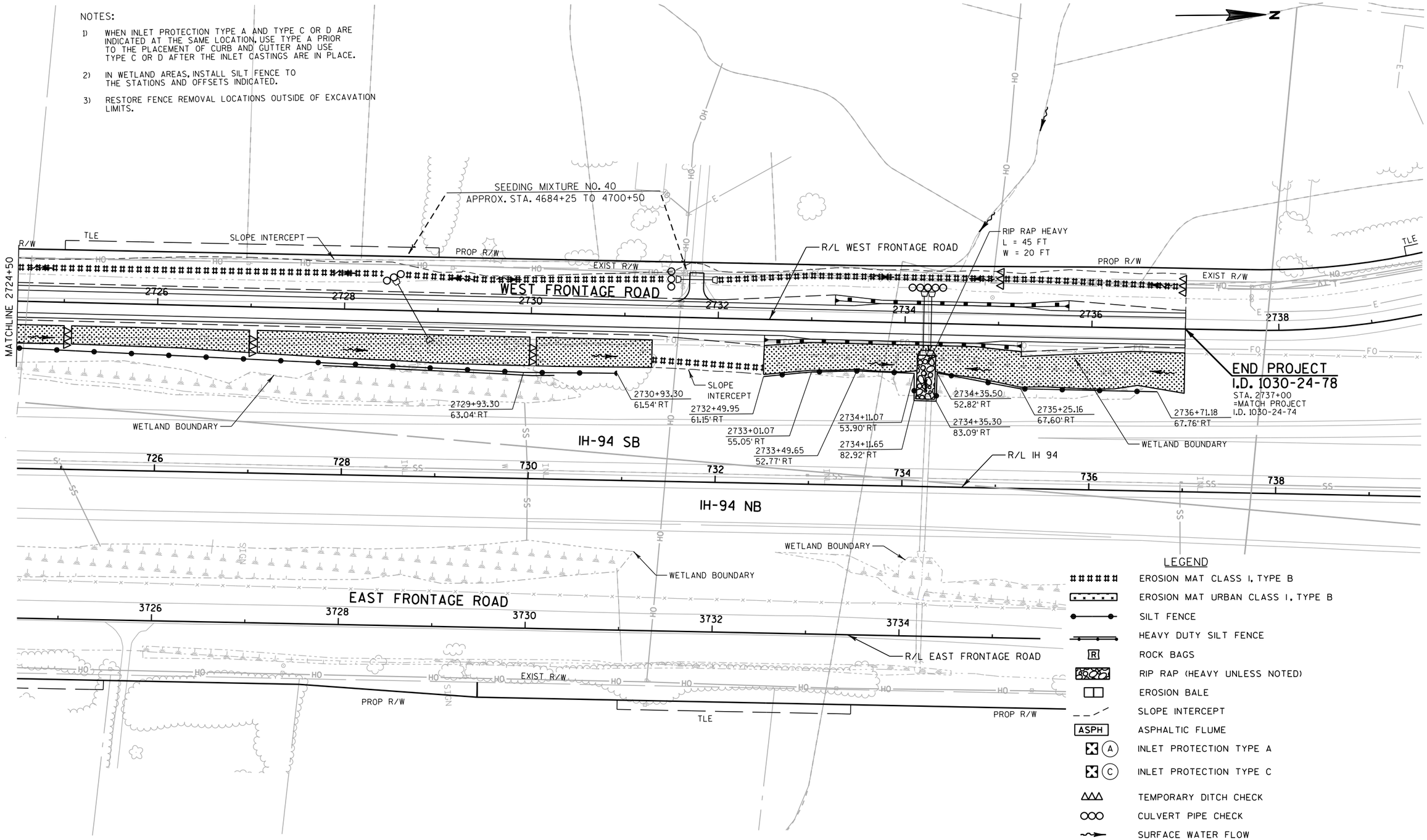
WISDOT/CADDS SHEET 42

NOTES:

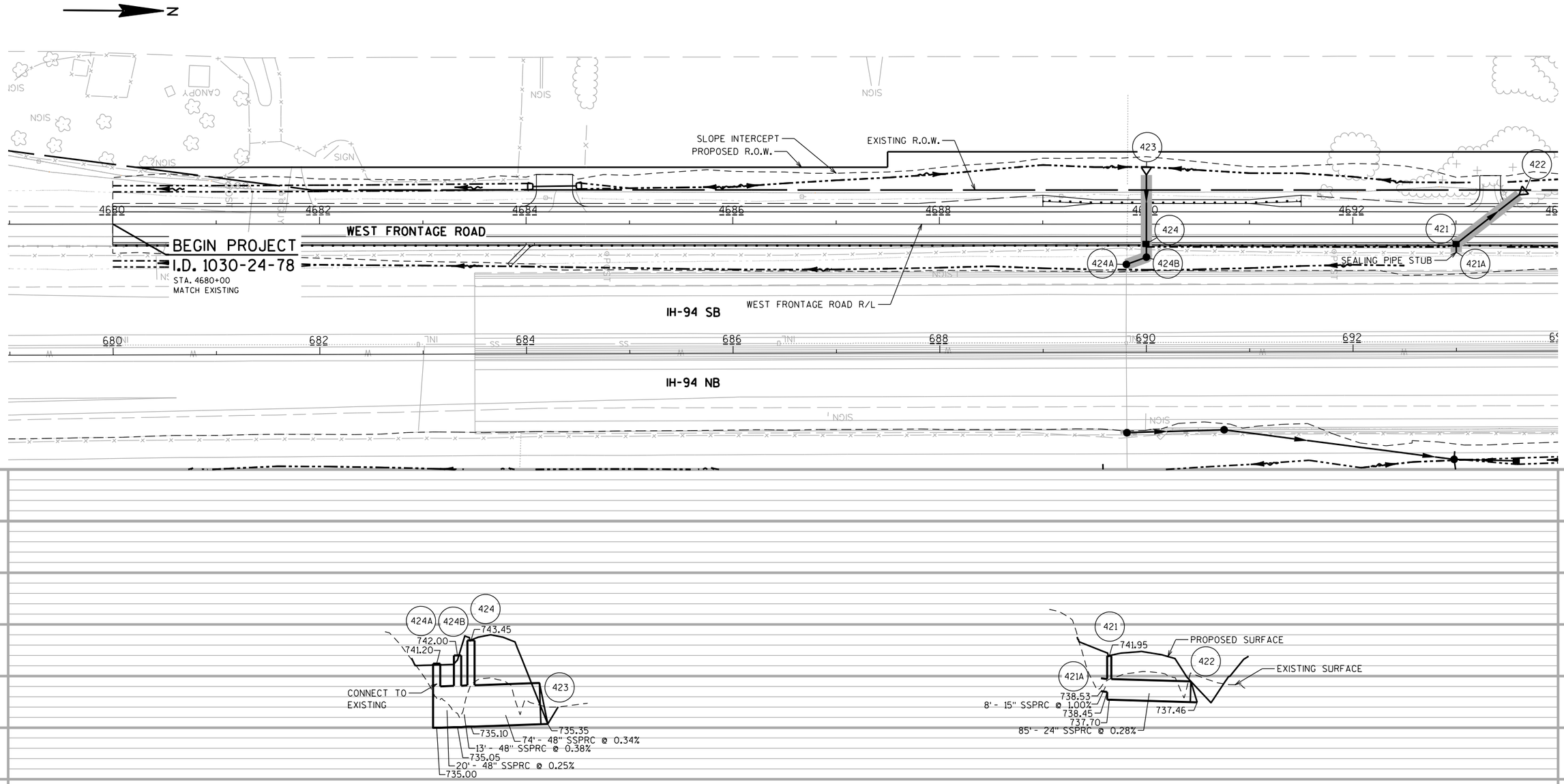
1) WHEN INLET PROTECTION TYPE A AND TYPE C OR D ARE INDICATED AT THE SAME LOCATION, USE TYPE A PRIOR TO THE PLACEMENT OF CURB AND GUTTER AND USE TYPE C OR D AFTER THE INLET CASTINGS ARE IN PLACE.

2) IN WETLAND AREAS, INSTALL SILT FENCE TO THE STATIONS AND OFFSETS INDICATED.

3) RESTORE FENCE REMOVAL LOCATIONS OUTSIDE OF EXCAVATION LIMITS.

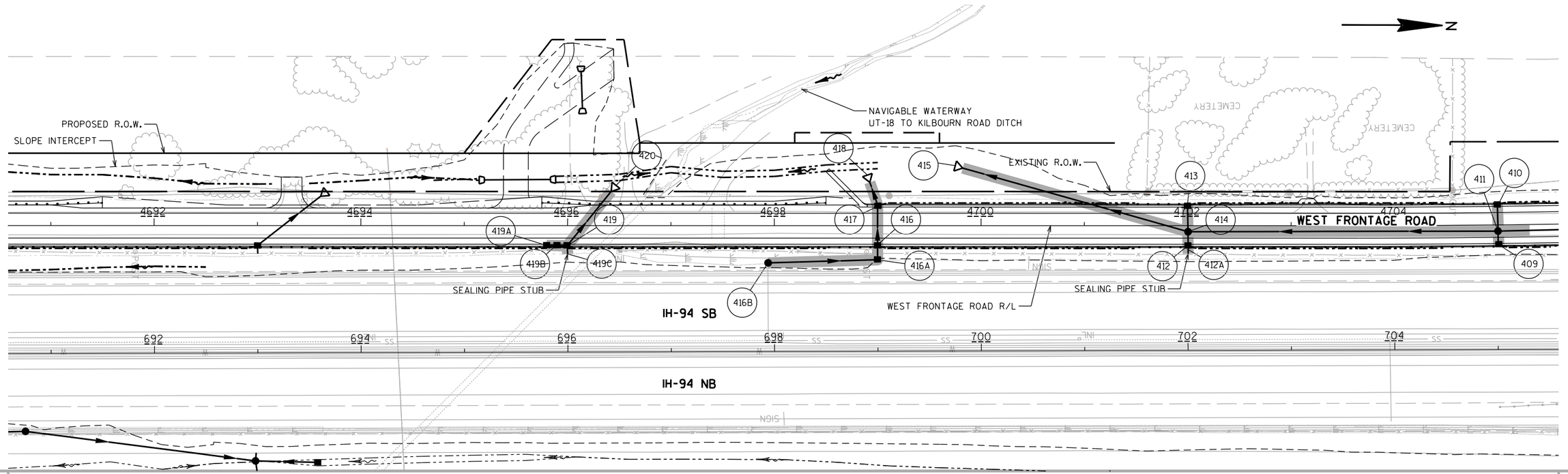


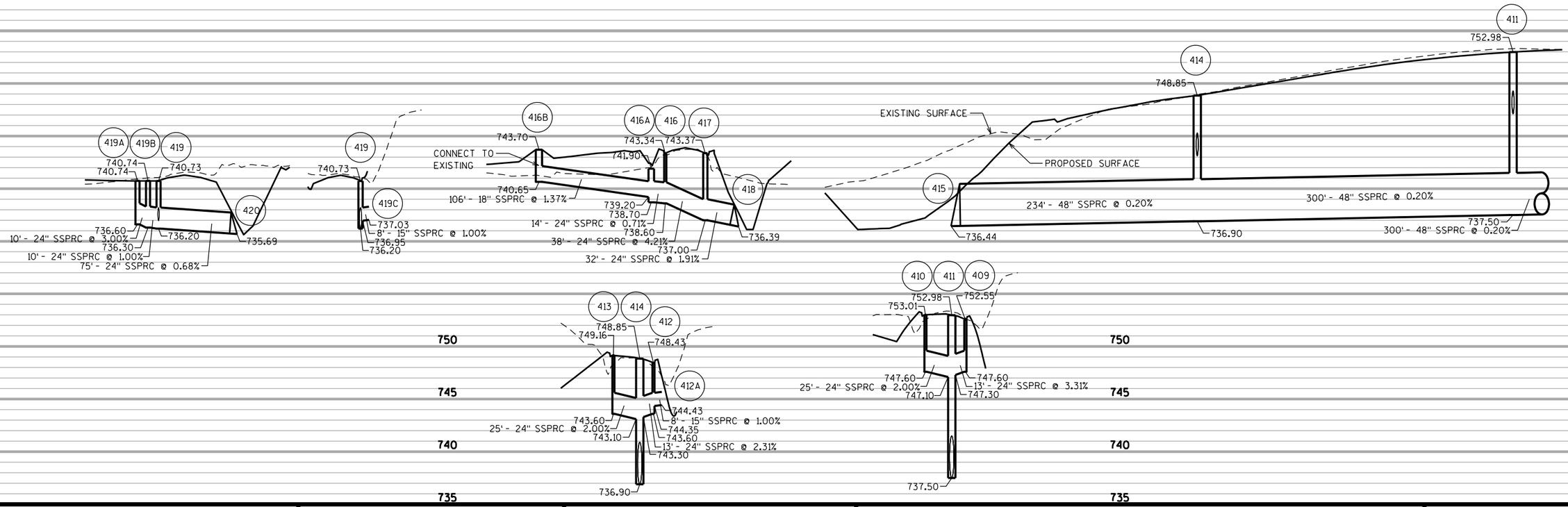
PROJECT NO: 1030-24-78	HWY: IH 94	COUNTY: RACINE	EROSION CONTROL: WEST FRONTAGE ROAD	SHEET 42	E



745 740 735 730 725 720 715 710

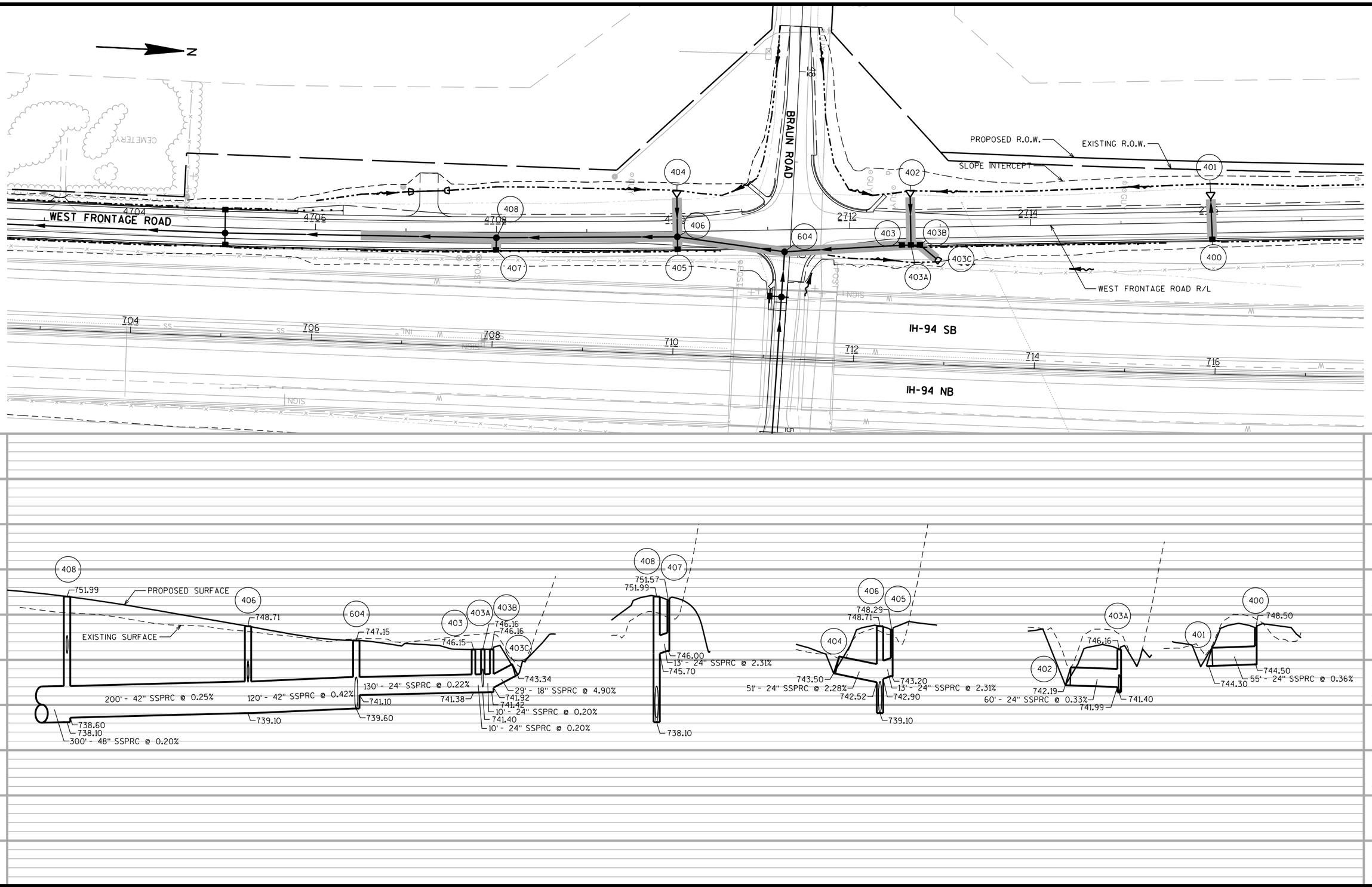
PROJECT NO: 1030-24-78	HWY: IH 94	COUNTY: RACINE	STORM SEWER: SEG. 12 WFR	SHEET 43 E





PROJECT NO: 1030-24-78	HWY: IH 94	COUNTY: RACINE	STORM SEWER: SEG. 12 WFR	SHEET 44	E

FILE NAME : S:\2015\WisDOT\I-94_N-S\CADD files\CDS\SSE_IH-94_12WFR_SS2.dgn PLOT DATE : 9/15/2017 PLOT BY : Harlan PLOT NAME : _____ PLOT SCALE : 1:100



PROJECT NO: 1030-24-78	HWY: IH 94	COUNTY: RACINE	STORM SEWER: SEG. 12 WFR	SHEET 45 E

2

BEGIN PROJECT
I.D. 1030-24-78
STA. 4680+00
=MATCH PROJECT
I.D. 1035-03-75
(PREVIOUSLY CONSTRUCTED)

1RO1
1RO2
REMOVE

1RO3
1RO4
REMOVE

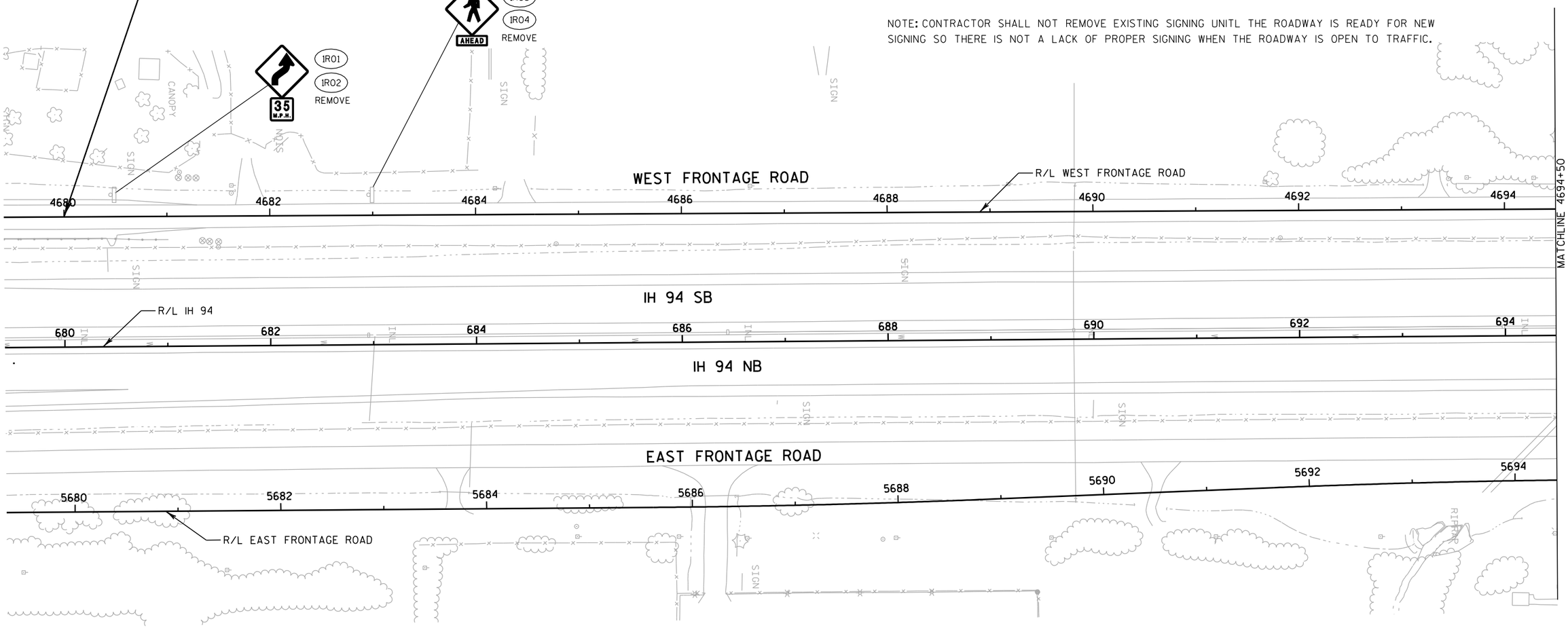
LEGEND

EXISTING SIGN MOUNTED ON POST(S)

XXXX DENOTES SIGN NUMBER

ESTR EXISTING SIGN TO REMAIN

NOTE: CONTRACTOR SHALL NOT REMOVE EXISTING SIGNING UNITL THE ROADWAY IS READY FOR NEW SIGNING SO THERE IS NOT A LACK OF PROPER SIGNING WHEN THE ROADWAY IS OPEN TO TRAFFIC.



PROJECT NO: 1030-24-78	HWY: IH 94	COUNTY: RACINE	EXISTING SIGNING: WEST FRONTAGE ROAD	SHEET 46	E

2

N

2R01
REMOVE

NO PASSING ZONE

100

101

MATCHLINE 4694+50

MATCHLINE 4709+50

WEST FRONTAGE ROAD

R/L WEST FRONTAGE ROAD

CEMETERY

CEMETERY

2R02
REMOVE

STOP AHEAD

4696 4698 4700 4702 4704 4706 4708

IH 94 SB

R/L IH 94

696 698 700 702 704 706 708

IH 94 NB

EAST FRONTAGE ROAD

5696 5698 5700 5702 5704 5706 5708

R/L EAST FRONTAGE ROAD

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

XXXX DENOTES SIGN NUMBER

ESTR EXISTING SIGN TO REMAIN

NOTE: CONTRACTOR SHALL NOT REMOVE EXISTING SIGNING UNITL THE ROADWAY IS READY FOR NEW SIGNING SO THERE IS NOT A LACK OF PROPER SIGNING WHEN THE ROADWAY IS OPEN TO TRAFFIC.

PROJECT NO: 1030-24-78	HWY: IH 94	COUNTY: RACINE	EXISTING SIGNING: WEST FRONTAGE ROAD	SHEET 47	E

FILE NAME : z:\racine\cadds\12\12w\cds\023202_ES.dgn PLOT DATE : 1/10/2017 PLOT BY : tony.baciak PLOT NAME : PLOT SCALE : 1:100

2

STOP AHEAD
REMOVE
3R07

REMOVE AND SALVAGE
BY LOCAL MUNICIPALITY
S SYLVANIA AVE

3R04
3R03
3R02
3R01
REMOVE

STOP

3R05
REMOVE

STOP AHEAD

3R06
REMOVE

NO PASSING ZONE

N

MATCHLINE 4709+50

MATCHLINE 2724+50

48

50

52

54

56

BRAUN ROAD

R/L WEST FRONTAGE ROAD

WEST FRONTAGE ROAD

4710 2712 2714 2716 2718 2720 2722 2724

IH 94 SB

IH 94 NB

R/L IH 94

710 712 714 716 718 720 722 724

EAST FRONTAGE ROAD

5710 3712 3714 3716 3718 3720 3722 3724

R/L EAST FRONTAGE ROAD

SIGN

RUINS

LEGEND

	EXISTING SIGN MOUNTED ON POST(S)
XXXX	DENOTES SIGN NUMBER
ESTR	EXISTING SIGN TO REMAIN

NOTE: CONTRACTOR SHALL NOT REMOVE EXISTING SIGNING UNITL THE ROADWAY IS READY FOR NEW SIGNING SO THERE IS NOT A LACK OF PROPER SIGNING WHEN THE ROADWAY IS OPEN TO TRAFFIC.

PROJECT NO: 1030-24-78	HWY: IH 94	COUNTY: RACINE	EXISTING SIGNING: WEST FRONTAGE ROAD	SHEET 48	E

2

N

4R01
4R02
REMOVE

4R03
REMOVE

NO PASSING ZONE

45 M.P.H.

MATCHLINE 2724+50

R/L WEST FRONTAGE ROAD

2726 2728 2730 2732 2734 2736 2738

WEST FRONTAGE ROAD

END PROJECT
I.D. 1030-24-78
STA. 2737+00
=MATCH PROJECT
I.D. 1030-24-74

SIGN

IH 94 SB

726 728 730 732 734 736 738

R/L IH 94

IH 94 NB

SIGN

EAST FRONTAGE ROAD

3726 3728 3730 3732 3734

R/L EAST FRONTAGE ROAD

SIGN

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

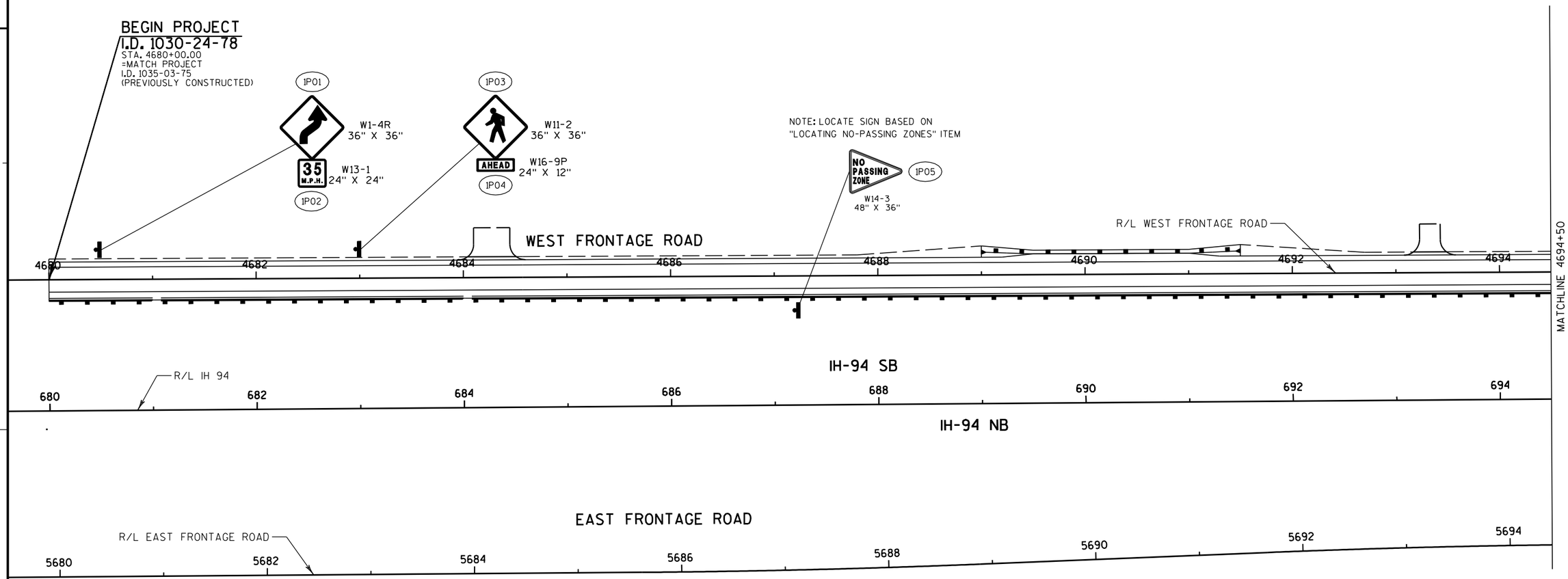
XXXX DENOTES SIGN NUMBER

ESTR EXISTING SIGN TO REMAIN

NOTE: CONTRACTOR SHALL NOT REMOVE EXISTING SIGNING UNITL THE ROADWAY IS READY FOR NEW SIGNING SO THERE IS NOT A LACK OF PROPER SIGNING WHEN THE ROADWAY IS OPEN TO TRAFFIC

PROJECT NO: 1030-24-78	HWY: IH 94	COUNTY: RACINE	EXISTING SIGNING: WEST FRONTAGE ROAD	SHEET 49	E

2



LEGEND

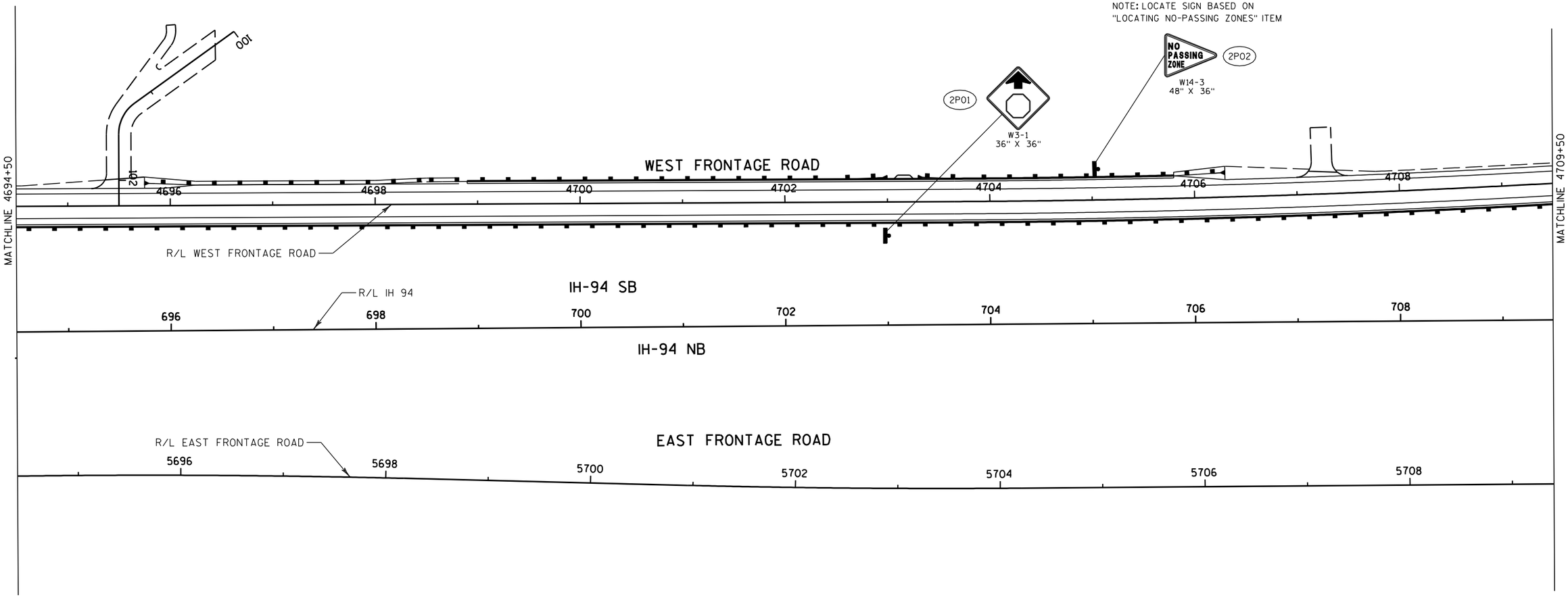
- EXISTING SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POST(S)
- DELINEATOR (DUAL DIRECTION WHITE)
- (XMXX) DENOTES MOVING SIGN NUMBER
- (XPXX) DENOTES PROPOSED SIGN NUMBER

PROJECT NO: 1030-24-78	HWY: IH 94	COUNTY: RACINE	PERMANENT SIGNING: WEST FRONTAGE ROAD	SHEET 50	E

2

N

NOTE: LOCATE SIGN BASED ON
"LOCATING NO-PASSING ZONES" ITEM

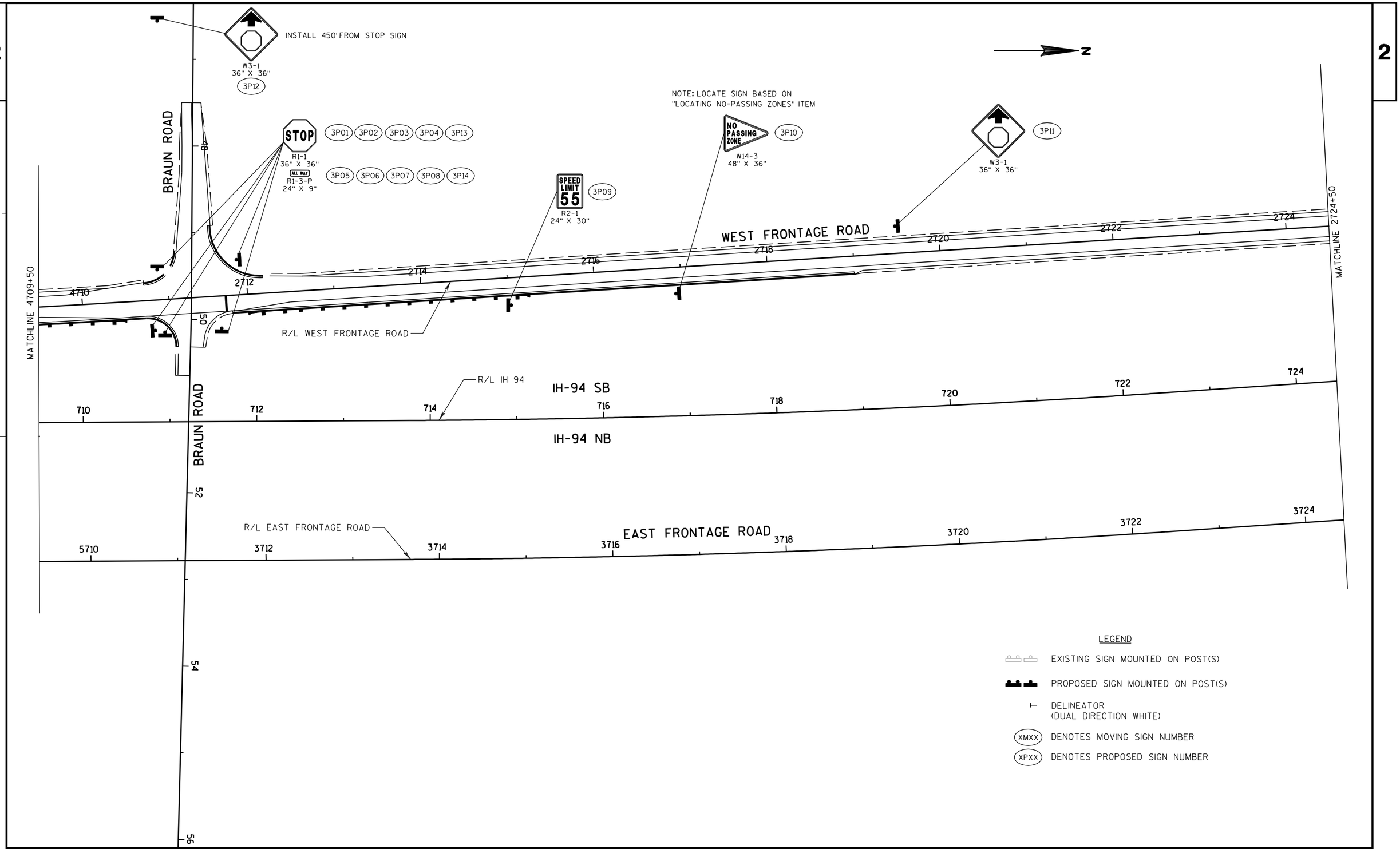


LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POST(S)
- DELINEATOR (DUAL DIRECTION WHITE)
- (XMXX) DENOTES MOVING SIGN NUMBER
- (XPXX) DENOTES PROPOSED SIGN NUMBER

PROJECT NO: 1030-24-78	HWY: IH 94	COUNTY: RACINE	PERMANENT SIGNING: WEST FRONTAGE ROAD	SHEET 51	E

FILE NAME : z:\racine\cadds\12\12w\cds\023206_PS.dgn PLOT DATE : 1/10/2017 PLOT BY : tony.baciak PLOT NAME : PLOT SCALE : 1:100



LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POST(S)
- DELINEATOR (DUAL DIRECTION WHITE)
- (XMXX) DENOTES MOVING SIGN NUMBER
- (XPXX) DENOTES PROPOSED SIGN NUMBER

PROJECT NO: 1030-24-78	HWY: IH 94	COUNTY: RACINE	PERMANENT SIGNING: WEST FRONTAGE ROAD	SHEET 52	E

FILE NAME : z:\racine\cadds\12\12w\cds\023207_PS.dgn PLOT DATE : 1/10/2017 PLOT BY : tony.baciak PLOT NAME : PLOT SCALE : 1:100

2

N

MATCHLINE 2724+50

2726 2728 2730 2732 2734 2736 2738

WEST FRONTAGE ROAD

R/L WEST FRONTAGE ROAD

4P01 NO PASSING ZONE
W14-3
48" X 36"

NOTE: LOCATE SIGN BASED ON "LOCATING NO-PASSING ZONES" ITEM

4P02 SPEED LIMIT 45
W3-5
36" X 36"

4P03
W1-4L
36" X 36"

4P04 SPEED LIMIT 55
R2-1
24" X 30"

4P05 SPEED LIMIT 45
R2-1
24" X 30"

END PROJECT
I.D. 1030-24-78
STA. 2737+00
=MATCH PROJECT
I.D. 1030-24-74

R/L IH 94

726 728 730 732 734 736 738

IH-94 SB

IH-94 NB

R/L EAST FRONTAGE ROAD

3726 3728 3730 3732 3734

EAST FRONTAGE ROAD

LEGEND

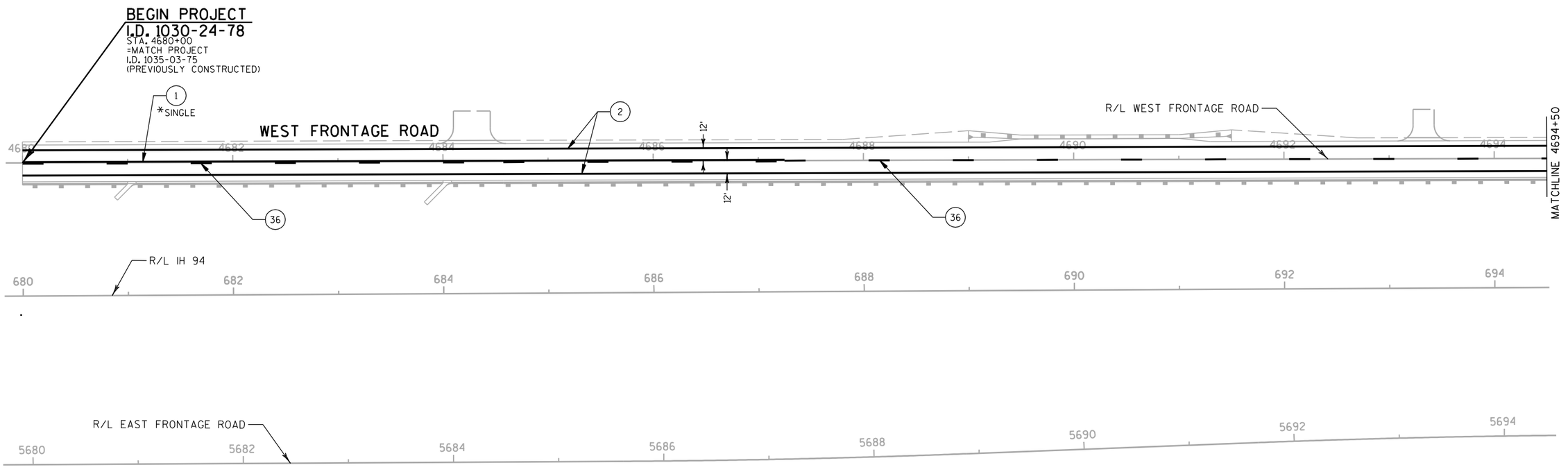
- EXISTING SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POST(S)
- DELINEATOR (DUAL DIRECTION WHITE)
- (XMXX) DENOTES MOVING SIGN NUMBER
- (XPXX) DENOTES PROPOSED SIGN NUMBER

PROJECT NO: 1030-24-78	HWY: IH 94	COUNTY: RACINE	PERMANENT SIGNING: WEST FRONTAGE ROAD	SHEET 53	E

2

N

* - LIMITS OF PAVEMENT MARKING EPOXY 4-INCH (YELLOW) WILL BE DETERMINED UNDER THE PAY ITEM "LOCATING NO-PASSING ZONES"



LEGEND

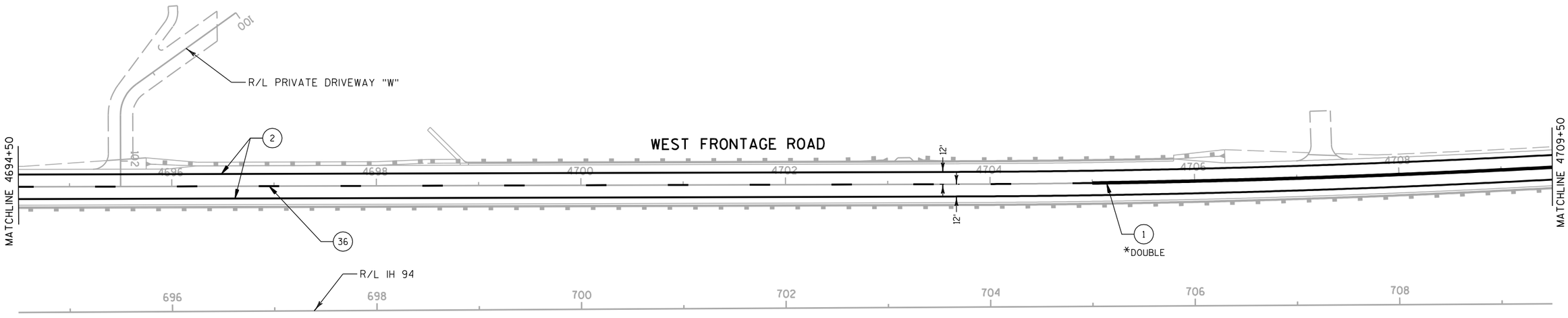
1. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
2. PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
7. PAVEMENT MARKING STOPLINE EPOXY 18-INCH (WHITE)
36. PAVEMENT MARKING EPOXY 4-INCH (DASHED YELLOW)

PROJECT NO: 1030-24-78	HWY: IH 94	COUNTY: RACINE	PAVEMENT MARKING: WEST FRONTAGE ROAD	SHEET 54	E

2

N

* - LIMITS OF PAVEMENT MARKING EPOXY
4-INCH (YELLOW) WILL BE DETERMINED UNDER
THE PAY ITEM "LOCATING NO-PASSING ZONES"



LEGEND

(1) PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
(2) PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
(7) PAVEMENT MARKING STOPLINE EPOXY 18-INCH (WHITE)
(36) PAVEMENT MARKING EPOXY 4-INCH (DASHED YELLOW)

PROJECT NO: 1030-24-78	HWY: IH 94	COUNTY: RACINE	PAVEMENT MARKING: WEST FRONTAGE ROAD	SHEET 55	E

FILE NAME : z:\racine\cadds\12\12w\cds\024502_PM.dgn PLOT DATE : 1/10/2017 PLOT BY : tony.baciak PLOT NAME : PLOT SCALE : 1:100

2

N

* - LIMITS OF PAVEMENT MARKING EPOXY
4-INCH (YELLOW) WILL BE DETERMINED UNDER
THE PAY ITEM "LOCATING NO-PASSING ZONES"

MATCH EXISTING
STA 47+50

MATCHLINE 4709+50

MATCHLINE 2724+50

WEST FRONTAGE ROAD

R/L WEST FRONTAGE ROAD

R/L IH 94

R/L EAST FRONTAGE ROAD

BRAUN RD

MATCH EXISTING
STA 50+65

*DOUBLE

DOUBLE

*DOUBLE

*DOUBLE

LEGEND

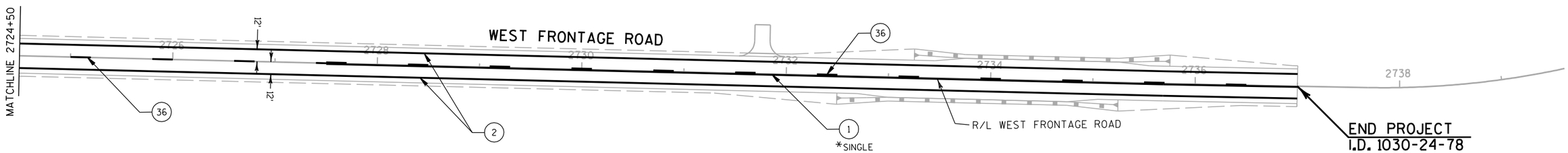
1. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
2. PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
7. PAVEMENT MARKING STOPLINE EPOXY 18-INCH (WHITE)
36. PAVEMENT MARKING EPOXY 4-INCH (DASHED YELLOW)

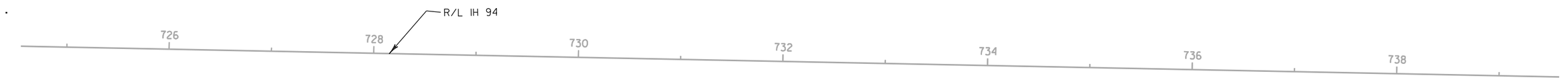
PROJECT NO: 1030-24-78	HWY: IH 94	COUNTY: RACINE	PAVEMENT MARKING: WEST FRONTAGE ROAD	SHEET 56	E

2

N

* - LIMITS OF PAVEMENT MARKING EPOXY
4-INCH (YELLOW) WILL BE DETERMINED UNDER
THE PAY ITEM "LOCATING NO-PASSING ZONES"





LEGEND

(1) PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
(2) PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
(7) PAVEMENT MARKING STOPLINE EPOXY 18-INCH (WHITE)
(36) PAVEMENT MARKING EPOXY 4-INCH (DASHED YELLOW)

PROJECT NO: 1030-24-78	HWY: IH 94	COUNTY: RACINE	PAVEMENT MARKING: WEST FRONTAGE ROAD	SHEET 57	E

FILE NAME : z:\racine\cadds\12\12w\cds\024504_PM.dgn PLOT DATE : 1/10/2017 PLOT BY : tony.baciak PLOT NAME : PLOT SCALE : 1:100

GENERAL NOTES FOR CONSTRUCTION STAGING AND TRAFFIC CONTROL

1. ALL TRAFFIC CONTROL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED IN THE PLANS.
2. "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS REFLECTIVE ORANGE.
3. TRAFFIC CONTROL DRUMS IN TAPERS, SHALL BE EQUIPPED WITH TRAFFIC CONTROL WARNING LIGHTS, TYPE "C", ONE WAY LIGHTS IN TAPERS ONLY, UNLESS OTHERWISE SHOWN, DRUMS SHALL BE SPACED AT 25-FT OC IN TAPERS AND 50-FT OC ON TANGENTS OR AS OTHERWISE SHOWN.
4. SIGN LOCATIONS ARE APPROXIMATE. THE ACTUAL LOCATION SPACING MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER TO MEET FIELD CONDITIONS.
5. ALL SIGNS, TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE COVERED OR REMOVED AS NEEDED AND/OR AS DIRECTED BY THE ENGINEER.
6. ALL EXISTING CONFLICTING PAVEMENT MARKING SHALL BE REMOVED.
7. A FLAGGER MAY BE REQUIRED WHERE CONSTRUCTION VEHICLES ENTER OR LEAVE "WORK/CLOSED" AREAS IF WARRANTED BY CONDITIONS AND/OR AS DIRECTED BY THE ENGINEER.
8. CONTRACTOR SHALL INSTALL PERMANENT SIGNS AND PERMANENT PAVEMENT MARKING WHEN APPROPRIATE DURING CONSTRUCTION STAGING AS SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER.
9. ADEQUATE TURNING PROVISION SHALL BE MAINTAINED FOR ALL VEHICLES, INCLUDING TRUCKS AS DIRECTED BY THE ENGINEER.
10. TEMPORARY SIDE ROAD CLOSURES MAY BE NECESSARY FOR ASPHALTIC CONCRETE PAVING OF SIDE ROADS.
11. BARRICADE STRIPES ARE TO BE SLOPED DOWNWARD IN THE DIRECTION OF TRAFFIC FLOW.
12. APPLE HOLLER OWNER WILL PROVIDE DIRECTIONAL SIGNS TO BE PLACED AT LOCATIONS DESIGNATED BY THE ENGINEER. MOUNT THE SIGNS ON BARRICADES AT DESIGNATED LOCATIONS.

N

ROAD WORK AHEAD W20-1A
ROAD CLOSED 500 FT W20-3D
ROAD CLOSED 1000 FT W20-3C
ROAD CLOSED AHEAD W20-3A
1201
1202
1203
1204
1000' 500' 500'
R11-4 60" X 30" ROAD CLOSED TO THRU TRAFFIC
ROAD WORK AHEAD W20-1A
BEGIN PROJECT
I.D. 1030-24-78
STA. 4680+00
=MATCH PROJECT
I.D. 1035-03-75
(PREVIOUSLY CONSTRUCTED)
WEST FRONTAGE ROAD
EAST FRONTAGE ROAD
100' TYP.
CTH KR
SIGN FOR IH 94 SB TRAFFIC
END ROAD WORK G20-2A 48" X 24"
R11-4 60" X 30" ROAD CLOSED TO THRU TRAFFIC
STA 4683+50 TO 4705+50
TRAFFIC CONTROL DRUMS
INSTALL AT EDGE OF GRAVEL SHOULDER
OF IH 94 SOUTHBOUND
IH-94 SB
IH-94 NB
R11-4 60" X 30" ROAD CLOSED 1.0 MILES AHEAD LOCAL TRAFFIC ONLY
PLACE AT INTERSECTION OF BRAUN RD. AND 57TH DR.
ROAD CLOSED AHEAD W20-3A
ROAD CLOSED 1000 FT W20-3C
ROAD CLOSED 500 FT W20-3D
1000' 500' 500' 1000'
BRAUN ROAD
R11-4 60" X 30" ROAD CLOSED TO THRU TRAFFIC
STOP R1-1 36" X 36"
TEMPORARY STOP SIGN (SEE CONSTRUCTION DETAIL)
R11-4 60" X 30" ROAD CLOSED TO THRU TRAFFIC
ROAD CLOSED 500 FT W20-3D
ROAD CLOSED AHEAD W20-3A
STH 11
SEE PROJECT I.D. 1030-24-74 FOR ADDITIONAL WEST FRONTAGE ROAD TRAFFIC CONTROL AND DETOUR PLAN.
END PROJECT
I.D. 1030-24-78
STA. 2737+00
=MATCH PROJECT
I.D. 1030-24-74

STAGE 1

CONSTRUCTION
- WEST FRONTAGE ROAD CONSTRUCTION

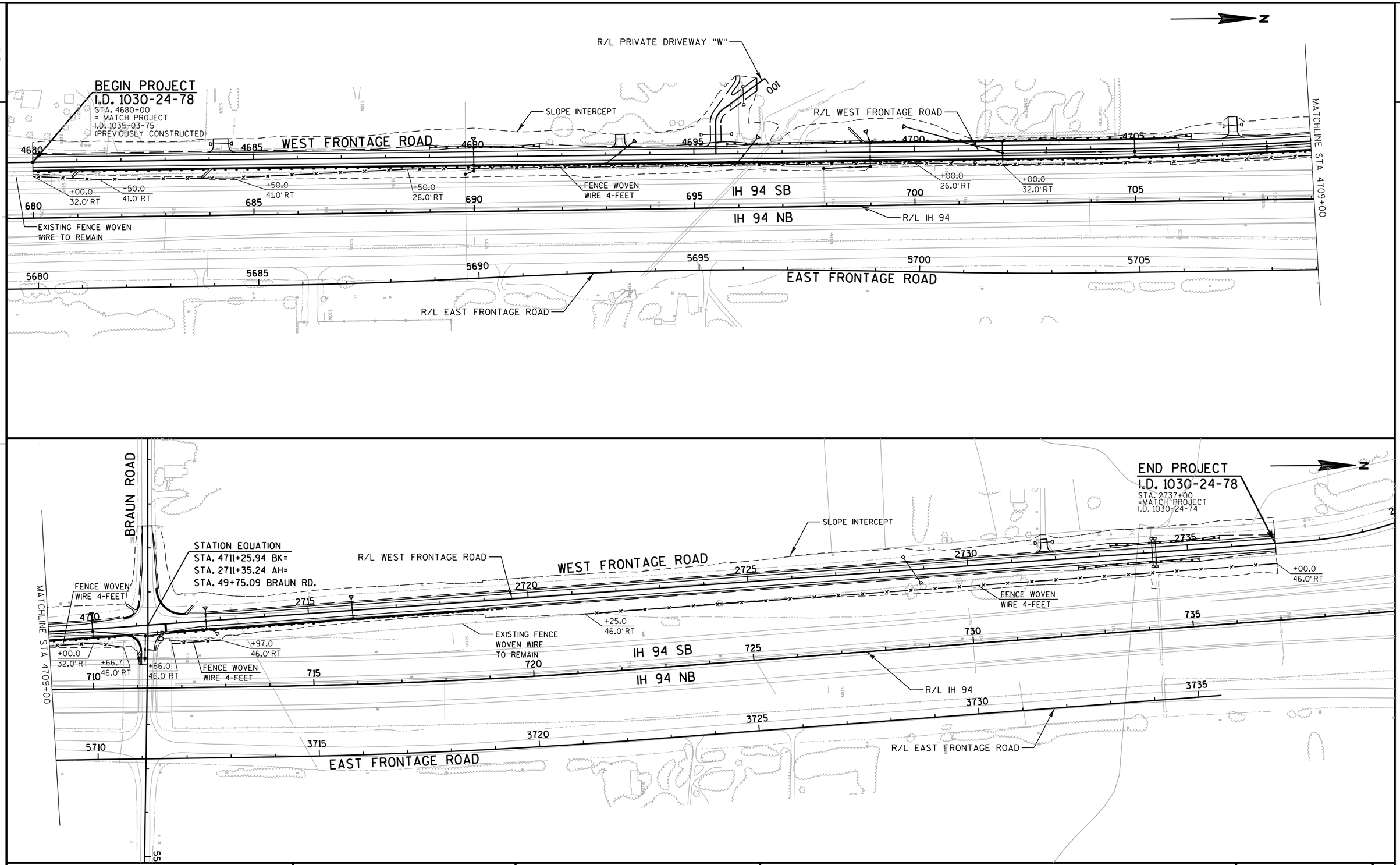
TRAFFIC
- WEST FRONTAGE ROAD CLOSED
- BRAUN ROAD CLOSED AT WEST FRONTAGE ROAD

LEGEND

- TYPE III BARRICADE WITH LIGHTS
- TYPE III BARRICADE WITH LIGHTS AND ATTACHED SIGN
- SIGN ON TEMPORARY SUPPORT
- SIGN ON PERMANENT SUPPORT
- WORK AREA
- DIRECTION OF TRAFFIC
- MB — PORTABLE CHANGEABLE MESSAGE BOARD
- XXX — FIXED MESSAGE SIGN NUMBER

PROJECT NO: 1030-24-78	HWY: IH 94	COUNTY: RACINE	TRAFFIC CONTROL: STAGE 1	SHEET 58 E

FILE NAME : Z:\Racine\CADDS\12\12W\CDS\026001_S1.dgn PLOT DATE : 1/11/2017 PLOT BY : tony.baciak PLOT NAME : PLOT SCALE : 1:750



2

PROJECT NO: 1030-24-78	HWY: IH 94	COUNTY: RACINE	FENCE PLAN: WEST FRONTAGE ROAD	SHEET 59	E

2

4655

4660

4665

4670

4675

R/L WEST FRONTAGE ROAD

POINT SEC3168
Y=165066.28
X=591509.07

CONTROL POINTS			
POINT NO.	COORDINATES		DESCRIPTION
	X	Y	
BM13	594051.20	166805.42	RRSP SPLIT 42" MAPLE
BM14	594491.57	166633.57	RRSP PP67-23364
CP5000	596626.30	167671.60	683+77.98, 2359.73' RT
CP5001	596084.88	167710.19	684+20.86, 1818.64' RT

N 89°58'50" E
2645.78'
SECTION LINE

CONCRETE MON.
WITH BRASS CAP
Y=167067.17
X=594154.86

CP65911

HMOD1YO3

CP65855

CP65729

TOWN OF
YORKVILLE

N

BEGIN PROJECT
I.D. 1030-24-78
STA. 4680+00
=MATCH PROJECT
I.D. 1035-03-75
(PREVIOUSLY CONSTRUCTED)
Y= 167273.93
X= 594142.97

BM13

CP67241

2664.26'
N 0°18'32" W
SECTION LINE

660 665 670 675 680 685

IH-94 SB
IH-94 NB

R/L IH 94

FOR REFERENCE ONLY

WEST FRONTAGE ROAD

4680

N 0° 18' 32" W

CP68041

PI 4684+57.47
Y= 167731.39
X= 594140.50

SECTION LINE = R/L

4685

N 0° 17' 38" W

CP68742

S 89°50'01" E
2641.95'

POINT SEC3155
CAST IRON MON. WITH BRASS CAP
Y=167739.07
X=591498.57

1/4 SECTION LINE

POINT SEC3156
CONCRETE MON. WITH ALUM. CAP
Y=167731.39
X=594140.50

5665

5670 5675 5680 5685

R/L EAST FRONTAGE ROAD

EAST FRONTAGE ROAD

BM14

KENOSHA COUNTY

RACINE COUNTY

S 89° 9'35" E
2527.21'

S 89°03'40" E
2552.12'

VILLAGE OF MT. PLEASANT

POINT SEC3158
Y=165030.12
X=596681.84

POINT SEC3145
CAST IRON MON. WITH BRASS CAP
Y=167689.57
X=596692.28

PROJECT NO: 1030-24-78	HWY: IH 94	COUNTY: RACINE	ALIGNMENT LAYOUT: WEST FRONTAGE ROAD	SHEET 60 E

POINT SEC3155
CAST IRON MON. WITH BRASS CAP
Y=167739.07
X=591498.57

T3N R21E 36

S 89°50'01" E 2641.95'

1/4 SECTION LINE

POINT SEC3156
CONCRETE MON. WITH ALUM. CAP
Y=167731.39
X=594140.50

T3N R22E 36 31

CURVE DATA											
CURVE NO.	PI	PI COORDINATES Y	PI COORDINATES X	Δ	D	T	L	E	R	PC	PT
CL318	4707+10.91	169984.80	594128.94	(3°26'18")	0°29'54"	345.17	690.13	5.18	11500.00	4703+65.74	4710+55.87
PRL1	101+38.86	168823.45	594045.84	(54°30'14")	154°51'12"	19.06	35.20	4.62	37.00	101+19.81	101+55.00

TOWN OF
YORKVILLE

CONTROL POINTS			
POINT NO.	COORDINATES X	COORDINATES Y	DESCRIPTION
HMOD1	593977.80	170296.36	TY:DISK IN CONCRETE

R/L PRIVATE DRIVEWAY "W"

PC RL1
PI RL1
PT RL1
100
S 35°47'25" E
CURVE PRL1
N 89°42'22" E

R/L WEST FRONTAGE ROAD

WEST FRONTAGE ROAD

4685 4690 4695 4700 2667.69' 4705 4710

PC CL318
CP70481
CURVE CL318
PI CL318
PT CL318
N 0°17'38" W
N 3° 43'56" W

CP68742
SECTION LINE = R/L

IH-94 SB
IH-94 NB

685 690 695 700 705 710

FOR REFERENCE ONLY
CP69372
R/L IH 94

5685 5690 5695 5700 5705 5710

EAST FRONTAGE ROAD
R/L EAST FRONTAGE ROAD

VILLAGE OF MT. PLEASANT

POINT SEC3145
CAST IRON MON. WITH BRASS CAP
Y=167689.57
X=596692.28

T3N R22E 31

S 89°03'40" E 2552.12'

T3N R21E 36 25

POINT SEC3142
CAST IRON MON.
WITH BRASS CAP
Y=170411.23
X=591482.10

40 45 50 55

S 89°44'10" E 2644.746'

BRAUN ROAD

BEGIN CONSTRUCTION
STA. 47+50

POINT SEC3143
CAST IRON MON.
WITH BRASS CAP
Y=170399.04
X=594126.82

T3N R22E 36 25 30 31

HMOD1YO4

STATION EQUATION
STA. 4711+25.94 BK=
STA. 2711+35.24 AH=
STA. 49+75.10 BRAUN RD.
Y= 170399.16
X= 594101.91

CP71187
B-51-123
B-51-124
END CONSTRUCTION
STA. 50+32
CP71058

R/L BRAUN ROAD
= SECTION LINE

SECTION LINE

S 88°42'26" E 2536.264'

POINT SEC3132
CAST IRON MON.
WITH BRASS CAP
Y=170341.77
X=596664.43

T3N R22E 30 31

PROJECT NO: 1030-24-78	HWY: IH 94	COUNTY: RACINE	ALIGNMENT LAYOUT: WEST FRONTAGE ROAD	SHEET 61 E

POINT SEC3142
CAST IRON MON. WITH BRASS CAP
Y=170411.23
X=591482.10

TOWN OF
YORKVILLE

S 89°44'10" E
2644.746'

BRAUN ROAD

BEGIN CONSTRUCTION
STA. 47+50

POINT SEC3143
CAST IRON MON.
WITH BRASS CAP
Y=170399.04
X=594126.82

STATION EQUATION
STA. 4711+25.94 BK=
STA. 2711+35.24 AH=
STA. 49+75.10 BRAUN RD.
Y= 170399.16
X= 594101.91

HM0D1Y04

R/L WEST FRONTAGE ROAD

N 3° 43' 56" W

WEST FRONTAGE ROAD

2644.98'
N 0°07'52" W

SECTION LINE

CP71187

20.7'

IH-94 SB

IH-94 NB

END CONSTRUCTION
STA. 50+32

R/L IH 94

CP71058

EAST FRONTAGE ROAD

R/L EAST FRONTAGE ROAD

R/L BRAUN ROAD

SECTION LINE

S 88°42'26" E
2538.264'

POINT SEC3132
CAST IRON MON. WITH BRASS CAP
Y=170341.77
X=596664.43

VILLAGE OF MT. PLEASANT

CURVE MIKE8W2

SUPERELEVATION & CROSS SLOPE DATA	STATION	RATE	
		LEFT	RIGHT
BEGIN SUPER TRANSITION	2736+22	-2.00%	-2.00%
END CROWN RUNOFF	2736+71	-2.00%	0.00%
PROJECT LIMIT	2737+00	-2.00%	1.18%
SEE I.D. 1030-24-74 FOR ADDITIONAL SUPER ELEVATION INFORMATION			

NOTE: POSITIVE VALUES SLOPE TOWARDS THE REFERENCE LINE
NEGATIVE VALUES SLOPE AWAY FROM THE REFERENCE LINE

END PROJECT
I.D. 1030-24-78
STA. 2737+00
=MATCH PROJECT
I.D. 1030-24-74
Y= 172958.43
X= 593934.31

CURVE MIKE8W2

N 4° 00' 51" W

PI 2735+68.93
Y= 172827.68
X= 593943.49

186.64'

FOR REFERENCE ONLY

CP72663

CP72779

POINT SEC3129
CAST IRON MON.
WITH BRASS CAP
Y= 173056.26
X=591480.34

S 89°44'04" E
2640.45'

1/4 SECTION LINE

CP73787

Y=173044.02
X=594120.76

S 88°57'41" E
2519.96'

POINT SEC3119
CAST IRON MON.
WITH BRASS CAP
Y=172998.34
X=596640.31

PROJECT NO: 1030-24-78	HWY: IH 94	COUNTY: RACINE	ALIGNMENT LAYOUT: WEST FRONTAGE ROAD	SHEET 62 E

2

2

4655

4660

4665

4670

4675

4680

4685

CTH KR

R/L WEST FRONTAGE ROAD

CP65911
F1000SPK BERNTSEN FENO WITH ALUM CAP
STA. 659+11.40, 361.37' LT
N=165183.46
E=593924.91
ELEV.=746.48

HMOD 1Y03
EXISTING WISDOT BRONZE DISK IN CONCRETE
MARKED BY 2 WHITE WITNESS POSTS
STA. 658+64.06, 203.08' LT
N=165137.44
E=594083.49
ELEV.=734.85

CP67241
F1000SPK BERNTSEN FENO WITH ALUM CAP
STA. 672+40.83, 213.82' LT
N=166514.09
E=594061.92
ELEV.=738.80

CP68041
CP BM TOP SW BOLT W LEG SIGN POST BASE
EXIT 337 SIGN W SIDE SB I94
STA. 680+40.73, 90.91' LT
N=167314.94
E=594178.40
ELEV.=739.25

WEST FRONTAGE ROAD

IH-94 SB

IH-94 NB

660

665

670

675

680

685

R/L IH 94

5665

5670

5675

5680

5685

EAST FRONTAGE ROAD

CTH KR

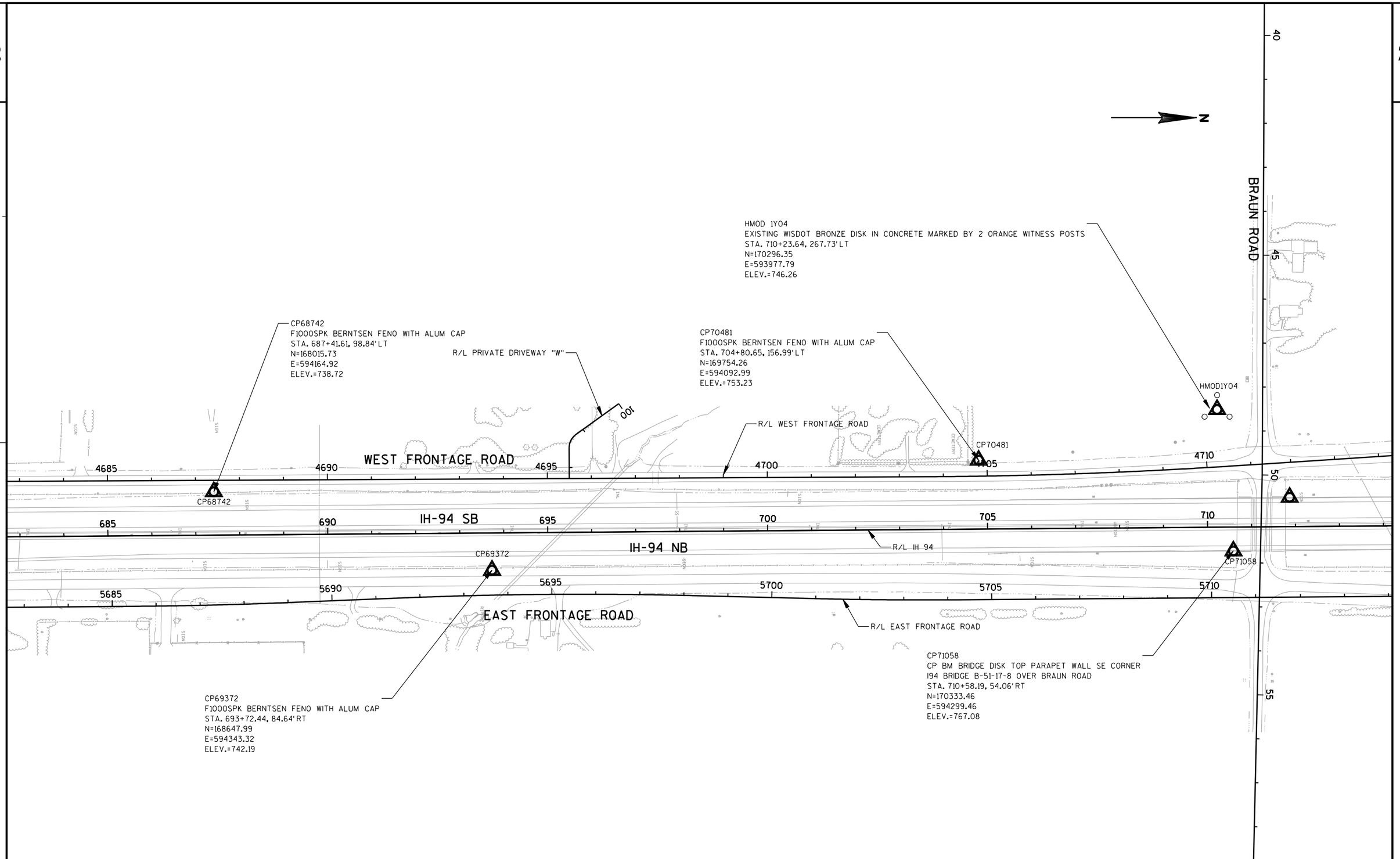
R/L EAST FRONTAGE ROAD

CP65855
CP BM BRIDGE DISK TOP PARAPET WALL NW CORNER
I94 BRIDGE 30/51-15-58 OVER 1ST ST
STA. 658+55.32, 67.52' LT
N=165129.78
E=594219.19
ELEV.=752.42

CP65729
CP BM BRIDGE DISK TOP PARAPET WALL SE CORNER
I94 BRIDGE 30/51-15-58 OVER 1ST ST
STA. 657+29.21, 53.89' RT
N=165004.64
E=594341.44
ELEV.=752.41

PROJECT NO: 1030-24-78	HWY: IH 94	COUNTY: RACINE	ALIGNMENT LAYOUT: WEST FRONTAGE ROAD - SURVEY CONTROL	SHEET 63	E

FILE NAME : z:\racine\cadds\12\12w\cds\027204_AD.dgn PLOT DATE : 1/10/2017 PLOT BY : tony.baciak PLOT NAME : PLOT SCALE : 1:200



PROJECT NO: 1030-24-78	HWY: IH 94	COUNTY: RACINE	ALIGNMENT LAYOUT: WEST FRONTAGE ROAD - SURVEY CONTROL	SHEET 64 E

2 2

BRAUN ROAD

CP71187
CP BM BRIDGE DISK TOP PARAPET WALL NW CORNER
194 BRIDGE B-51-17-8 OVER BRAUN ROAD
STA. 711+86.89, 66.94' LT
N=170461.19
E=594177.44
ELEV.=767.07

R/L WEST FRONTAGE ROAD

WEST FRONTAGE ROAD

IH-94 SB

IH-94 NB

R/L IH 94

EAST FRONTAGE ROAD

R/L EAST FRONTAGE ROAD

R/L BRAUN ROAD

CP72663
CP BM TOP SE BOLT E LEG SIGN POST BASE
CIS/EXIT 335 SIGN EAST SIDE NM 194
STA. 726+63.11, 84.17' RT
N=171941.97
E=594263.97
ELEV.=745.34

CP72779
F1000SPK BERNTSEN FENO WITH ALUM CAP
STA. 727+78.58, 207.70' RT
N=172065.73
E=594379.21
ELEV.=742.68

CP73787
F1000SPK BERNTSEN FENO WITH ALUM CAP
STA. 737+87.50, 214.57' RT
N=173072.55
E=594316.04
ELEV.=742.16

PROJECT NO: 1030-24-78	HWY: IH 94	COUNTY: RACINE	ALIGNMENT LAYOUT: WEST FRONTAGE ROAD - SURVEY CONTROL	SHEET 65 E

FILE NAME : z:\racine\cadds\12\12w\cds\027206_AD.dgn PLOT DATE : 1/10/2017 PLOT BY : tony.baciak PLOT NAME : PLOT SCALE : 1:200

WISDOT/CADDS SHEET 42

1030-24-78

Line	Item	Item Description	Unit	Total	Qty
0002	108.4400	CPM Progress Schedule	EACH	0.100	0.100
0004	201.0105	Clearing	STA	5.000	5.000
0006	201.0120	Clearing	ID	50.000	50.000
0008	201.0205	Grubbing	STA	5.000	5.000
0010	201.0220	Grubbing	ID	50.000	50.000
0012	203.0100	Removing Small Pipe Culverts	EACH	11.000	11.000
0026	204.0100	Removing Pavement **P**	SY	4,256.000	4,256.000
0028	204.0150	Removing Curb & Gutter **P**	LF	50.000	50.000
0032	204.0170	Removing Fence **P**	LF	5,013.000	5,013.000
0034	204.0180	Removing Delineators and Markers	EACH	3.000	3.000
0042	204.0220	Removing Inlets	EACH	1.000	1.000
0050	204.0245	Removing Storm Sewer (size) 006. 15-Inch	LF	10.000	10.000
0062	204.0280	Sealing Pipes	EACH	7.000	7.000
0068	204.9090.S	Removing (item description) 002. Draintile	LF	234.000	234.000
0070	204.9105.S	Removing (item description) 010. Abandoned Box Culvert	LS	1.000	1.000
0072	205.0100	Excavation Common	CY	36,650.000	36,650.000
0074	208.1100	Select Borrow	CY	12,676.000	12,676.000
0076	209.2100	Backfill Granular Grade 2	CY	150.000	150.000
0082	213.0100	Finishing Roadway (project) 026. 1030-24-78	EACH	1.000	1.000
0094	305.0110	Base Aggregate Dense 3/4-Inch	TON	2,090.000	2,090.000
0096	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	21,980.000	21,980.000
0098	311.0110	Breaker Run	TON	1,660.000	1,660.000
0100	440.4410	Incentive IRI Ride	DOL	4,311.000	4,311.000
0104	455.0605	Tack Coat	GAL	1,175.000	1,175.000
0106	460.2000	Incentive Density HMA Pavement	DOL	4,746.000	4,746.000
0108	460.5223	HMA Pavement 3 LT 58-28 S	TON	4,380.000	4,380.000
0110	460.5224	HMA Pavement 4 LT 58-28 S	TON	3,035.000	3,035.000
0116	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	22.000	22.000
0120	465.0315	Asphaltic Flumes	SY	90.000	90.000
0122	495.1000.S	Cold patch	TON	20.000	20.000
0124	502.4104	Adhesive Anchors 1/2-inch	EACH	4.000	4.000
0126	504.0100	Concrete Masonry Culverts	CY	0.200	0.200
0128	504.0900	Concrete Masonry Endwalls	CY	10.000	10.000
0130	505.0400	Bar Steel Reinforcement HS Structures	LB	10.000	10.000
0132	516.0500	Rubberized Membrane Waterproofing **P**	SY	0.300	0.300
0138	520.3315	Culvert Pipe Class III-A 15-Inch	LF	34.000	34.000
0140	520.3318	Culvert Pipe Class III-A 18-Inch	LF	103.000	103.000
0146	520.4118	Culvert Pipe Class IV 18-Inch	LF	77.000	77.000
0158	521.1615	Apron Endwalls for Culvert Pipe Sloped Side Drains	EACH	2.000	2.000

1030-24-78

Line	Item	Item Description	Unit	Total	Qty
		Steel 15-Inch 10 to 1			
0160	521.1618	Apron Endwalls for Culvert Pipe Sloped Side Drains Steel 18-Inch 10 to 1	EACH	8.000	8.000
0178	522.0330	Culvert Pipe Reinforced Concrete Class IV 30-Inch	LF	61.000	61.000
0184	522.1018	Apron Endwalls for Culvert Pipe Reinforced Concrete 18-Inch	EACH	1.000	1.000
0186	522.1024	Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	EACH	6.000	6.000
0188	522.1030	Apron Endwalls for Culvert Pipe Reinforced Concrete 30-Inch	EACH	2.000	2.000
0192	522.1048	Apron Endwalls for Culvert Pipe Reinforced Concrete 48-Inch	EACH	2.000	2.000
0212	601.0553	Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type D **P**	LF	4,700.000	4,700.000
0220	606.0100	Riprap Light	CY	25.000	25.000
0224	606.0300	Riprap Heavy	CY	230.000	230.000
0226	608.0315	Storm Sewer Pipe Reinforced Concrete Class III 15-Inch	LF	24.000	24.000
0228	608.0318	Storm Sewer Pipe Reinforced Concrete Class III 18-Inch	LF	135.000	135.000
0230	608.0324	Storm Sewer Pipe Reinforced Concrete Class III 24-Inch	LF	714.000	714.000
0234	608.0342	Storm Sewer Pipe Reinforced Concrete Class III 42-Inch	LF	377.000	377.000
0236	608.0348	Storm Sewer Pipe Reinforced Concrete Class III 48-Inch	LF	941.000	941.000
0246	608.0512	Storm Sewer Pipe Reinforced Concrete Class V 12-Inch	LF	625.000	625.000
0254	611.0535	Manhole Covers Type J-Special	EACH	20.000	20.000
0256	611.0627	Inlet Covers Type HM	EACH	17.000	17.000
0258	611.0642	Inlet Covers Type MS	EACH	2.000	2.000
0260	611.2004	Manholes 4-FT Diameter	EACH	9.000	9.000
0264	611.2006	Manholes 6-FT Diameter	EACH	2.000	2.000
0266	611.2007	Manholes 7-FT Diameter	EACH	8.000	8.000
0270	611.3230	Inlets 2x3-FT	EACH	8.000	8.000
0274	611.3902	Inlets Median 2 Grate	EACH	1.000	1.000
0280	612.0106	Pipe Underdrain 6-Inch	LF	3,030.000	3,030.000
0282	612.0108	Pipe Underdrain 8-Inch	LF	200.000	200.000
0284	612.0110	Pipe Underdrain 10-Inch	LF	200.000	200.000
0286	612.0112	Pipe Underdrain 12-Inch	LF	200.000	200.000
0290	612.0700	Drain Tile Exploration	LF	500.000	500.000
0298	614.0396	Guardrail Mow Strip Asphalt	SY	644.000	644.000
0302	614.0925	Salvaged Guardrail End Treatments **P**	EACH	1.000	1.000

1030-24-78

Line	Item	Item Description	Unit	Total	Qty
0304	614.2300	MGS Guardrail 3 **P**	LF	4,048.000	4,048.000
0306	614.2340	MGS Guardrail 3 L **P**	LF	200.000	200.000
0308	614.2610	MGS Guardrail Terminal EAT **P**	EACH	15.000	15.000
0310	616.0100	Fence Woven Wire (height) 001. 4-FT	LF	4,757.000	4,757.000
0312	616.0700.S	Fence Safety	LF	1,470.000	1,470.000
0316	618.0100	Maintenance And Repair of Haul Roads (project) 006. 1030-24-78	EACH	1.000	1.000
0326	619.1000	Mobilization	EACH	0.100	0.100
0330	623.0200	Dust Control Surface Treatment	SY	29,000.000	29,000.000
0332	624.0100	Water	MGAL	355.000	355.000
0334	625.0500	Salvaged Topsoil	SY	39,900.000	39,900.000
0336	627.0200	Mulching	SY	17,440.000	17,440.000
0338	628.1504	Silt Fence	LF	3,590.000	3,590.000
0340	628.1520	Silt Fence Maintenance	LF	3,590.000	3,590.000
0342	628.1905	Mobilizations Erosion Control	EACH	4.000	4.000
0344	628.1910	Mobilizations Emergency Erosion Control	EACH	4.000	4.000
0346	628.2004	Erosion Mat Class I Type B	SY	12,825.000	12,825.000
0348	628.2008	Erosion Mat Urban Class I Type B	SY	12,765.000	12,765.000
0350	628.6510	Soil Stabilizer Type B	ACRE	2.100	2.100
0352	628.7005	Inlet Protection Type A	EACH	24.000	24.000
0354	628.7010	Inlet Protection Type B	EACH	5.000	5.000
0356	628.7015	Inlet Protection Type C	EACH	21.000	21.000
0360	628.7504	Temporary Ditch Checks	LF	310.000	310.000
0362	628.7555	Culvert Pipe Checks	EACH	125.000	125.000
0364	628.7560	Tracking Pads	EACH	2.000	2.000
0366	628.7570	Rock Bags	EACH	80.000	80.000
0368	630.0140	Seeding Mixture No. 40	LB	160.000	160.000
0370	630.0200	Seeding Temporary	LB	1,335.000	1,335.000
0376	633.5200	Markers Culvert End	EACH	15.000	15.000
0380	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	8.000	8.000
0382	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	11.000	11.000
0388	637.2210	Signs Type II Reflective H	SF	59.800	59.800
0392	637.2230	Signs Type II Reflective F	SF	93.000	93.000
0396	638.2602	Removing Signs Type II	EACH	16.000	16.000
0398	638.3000	Removing Small Sign Supports	EACH	13.000	13.000
0402	643.0100	Traffic Control (project) 026. 1030-24-78	EACH	1.000	1.000
0412	643.0300	Traffic Control Drums	DAY	3,320.000	3,320.000
0414	643.0420	Traffic Control Barricades Type III	DAY	1,960.000	1,960.000
0416	643.0705	Traffic Control Warning Lights Type A	DAY	3,920.000	3,920.000
0418	643.0715	Traffic Control Warning Lights Type C	DAY	1,660.000	1,660.000

1030-24-78

Line	Item	Item Description	Unit	Total	Qty
0422	643.0900	Traffic Control Signs	DAY	3,150.000	3,150.000
0424	643.0920	Traffic Control Covering Signs Type II	EACH	5.000	5.000
0426	643.1000	Traffic Control Signs Fixed Message	SF	91.500	91.500
0428	643.1050	Traffic Control Signs PCMS	DAY	30.000	30.000
0436	645.0111	Geotextile Type DF Schedule A	SY	1,572.000	1,572.000
0438	645.0120	Geotextile Type HR	SY	610.000	610.000
0440	645.0130	Geotextile Type R	SY	110.000	110.000
0442	645.0135	Geotextile Type SR	SY	1,560.000	1,560.000
0444	645.0220	Geogrid Type SR	SY	34,180.000	34,180.000
0446	646.0106	Pavement Marking Epoxy 4-Inch	LF	5,539.000	5,539.000
0450	646.2304.S	Pavement Marking Grooved Wet Reflective Epoxy 4-Inch	LF	11,549.000	11,549.000
0462	647.0566	Pavement Marking Stop Line Epoxy 18-Inch	LF	114.000	114.000
0468	648.0100	Locating No-Passing Zones	MI	1.080	1.080
0470	690.0150	Sawing Asphalt	LF	139.000	139.000
0472	690.0250	Sawing Concrete	LF	96.000	96.000
0474	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	140.000	140.000
0476	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	150.000	150.000
0478	SPV.0030	Special 001. Fertilizer Type B, Special	CWT	29.000	29.000
0480	SPV.0035	Special 005. Backfill Slurry	CY	10.000	10.000
0486	SPV.0060	Special 088. Field Facilities Office Space	EACH	0.100	0.100
0492	SPV.0060	Special 091. Section Corner Monuments	EACH	2.000	2.000
0496	SPV.0075	Special 027. Pavement Cleanup Project 1030-24-78	HRS	24.000	24.000
0506	SPV.0085	Special 002. Seeding Mixture No. 30, Special	LB	1,090.000	1,090.000
0510	SPV.0090	Special 068. Culvert Pipe Reinforced Conc Horiz Elliptical Class HE-IV 43x68-Inch	LF	130.000	130.000
0512	SPV.0090	Special 084. Heavy Duty Silt Fence	LF	1,575.000	1,575.000
0514	SPV.0090	Special 085. Temporary Ditch Check Rock Bags Single Layer	LF	90.000	90.000
0516	SPV.0090	Special 086. Temporary Ditch Check Rock Bags Double Layer	LF	90.000	90.000
0520	SPV.0105	Special 026. Survey Project 1030-24-78	LS	1.000	1.000
0536	SPV.0195	Special 006. Select Subbase	TON	13,195.000	13,195.000
0538	SPV.0200	Special 002. Manholes 4-FT Diameter Special	VF	60.000	60.000

CPM PROGRESS SCHEDULE

CATEGORY	LOCATION	108.4400 CPM PROGRESS SCHEDULE EACH
1000	WEST FRONTAGE ROAD (1030-24-78)	0.1
	TOTAL	0.1

CLEARING AND GRUBBING

CATEGORY	STATION			LOCATION	201.0105 CLEARING STA	201.0120 CLEARING I.D.	201.0205 GRUBBING STA	201.0220 GRUBBING I.D.
1000	WEST FRONTAGE ROAD							
	4691+75			LT	--	50	--	50
	4692+00	-	4697+00	LT	5	--	5	--
	TOTAL				5	50	5	50

REMOVING SMALL PIPE CULVERT

CATEGORY	STATION	SIZE INCH	LENGTH FEET	TYPE	203.0100 REMOVING SMALL PIPE CULVERTS EACH
1000	WEST FRONTAGE ROAD				
	4681+83	15	28	CPCM	1
	4684+37	15	34	CPCM	1
	4689+82	30	34	CPRC	1
	4693+33	15	25	CPCM	1
	4697+46	15	24	CPCM	1
	4711+22	24	61	CPCM	1
	2711+40	24	72	CPCM	1
	2713+36	30	69	CPCM	1
	2731+75	15	31	CPCM	1
	2734+19	48	59	CPCM	1
	2734+25	48	58	CPCM	1
	TOTAL				11

REMOVING ABANDONED BOX CULVERT

CATEGORY	STATION	LOCATION	204.9105.S REMOVING ABANDONED BOX CULVERT LS	SPV.0035.005 BACKFILL SLURRY CY
1000	WEST FRONTAGE ROAD			
	4697+50	LT	1	10
	TOTAL		1	10

REMOVING PAVEMENT

CATEGORY	STATION			204.0100 REMOVING PAVEMENT SY
1000	WEST FRONTAGE ROAD			
	4680+00	-	4685+35	1,335
	4689+82	-	4690+06	69
	4692+33	-	4704+00	2,852
	4680+00	-	4704+00	--
	TOTAL			4,256

REMOVING CURB AND GUTTER

CATEGORY	STATION			204.0150 REMOVING CURB AND GUTTER LF
1000	WEST FRONTAGE ROAD			
	4680+00	-	4680+45	50
	TOTAL			50

REMOVING FENCE

CATEGORY	STATION			LOCATION	204.0170 REMOVING FENCE LF
1000	WEST FRONTAGE ROAD				
	4681+32	-	4681+95	LT	79
	4682+48		4683+92	LT	160
	4680+00		4710+68	RT	3,081
	2711+86	-	2712+98	RT	118
	2721+25	-	2737+00	RT	1,575
	TOTAL				5,013

REMOVING INLETS

CATEGORY	STATION	LOCATION	204.0220 REMOVING INLETS EACH
1000	WEST FRONTAGE ROAD		
	4696+50	RT	1
	TOTAL		1

3

REMOVING STORM SEWER

CATEGORY	STATION			204.0245.006 REMOVING STORM SEWER 15-INCH LF
1000	WEST FRONTAGE ROAD			
	4696+40	-	4696+50	10
	TOTAL			10

REMOVING DELINEATORS AND MARKERS

CATEGORY	STATION			204.0180 REMOVING DELINEATORS AND MARKERS EACH	COMMENTS
1000	WEST FRONTAGE ROAD				
	4680+00	-	2737+00	3	WOOD POST
	TOTAL			3	

REMOVING DRAIN TILE

CATEGORY	STATION	LOCATION	204.9090.S.002 REMOVING DRAIN TILE LF
1000	WEST FRONTAGE ROAD		
	4689+80	LT	26
	2733+85	LT	108
	UNDISTRIBUTED		100
	TOTAL		234

FINISHING ROADWAY PROJECT

CATEGORY	LOCATION	213.0100.026 FINISHING ROADWAY EACH
1000	WEST FRONTAGE ROAD (1030-24-78)	1
	TOTAL	1

3

EARTHWORK

CATEGORY	ROADWAY	FROM / TO STATION	205.0100 EXCAVATION COMMON CY		SALVAGED / UNUSABLE PAVEMENT MATERIAL (4)	AVAILABLE MATERIAL (5)	REDUCED EBS IN FILL (6)	EXPANDED EBS BACKFILL (7)	208.1100 SELECT BORROW CY	UNEXPANDED FILL (8)	EXPANDED FILL (9)	MASS ORDINATE +/- (10)	WASTE (11)	ESTIMATED DISPOSAL AREA OUTSIDE 1:1 SLOPE (12)
			CUT (2)	EBS EXCAVATION (3)			Factor 0.80	Factor 1.30			FACTOR 1.20			
1000	WEST FRONTAGE ROAD	4680+00 to 2737+00	25,708	4,292	3,117	22,591	3,433	5,579	5,579	8,292	9,950	12,641	12,641	2,479
	BRAUN ROAD	47+50 to 50+65	700	140	56	644	112	182	182	39	47	596	596	0
	PRIVATE DRIVEWAY "W"	100+22.5 to 102+08	498	0	0	498	0	0	0	21	25	473	473	0
	TOPSOIL EBS		0	3,261	0	0	2,609	4,247	4,247	0	0	0	3,261	0
	EXISTING PAVEMENT EBS (13)		0	2,052	2,052	0	0	2,667	2,667	0	0	0	2,052	0
	GRAND TOTALS		26,905	9,744	5,224	23,733	6,154	12,676	12,676	8,352	10,022	13,710	19,023	2,479
		TOTAL EXCAVATION COMMON		36,650										

1) COMMON EXCAVATION IS THE SUM OF THE CUT AND EBS EXCAVATION COLUMNS. ITEM NUMBER 205.0100
2) SALVAGED / UNUSABLE PAVEMENT MATERIAL IS INCLUDED IN CUT UNLESS EXISTING PAVEMENT IS BELOW SUBGRADE.
3) UNDISTRIBUTED EBS TO BE BACKFILLED WITH SELECT BORROW. EBS TO BE WASTED OUTSIDE THE 1:1 SLOPES (SEE NOTE 6) OR HAULED OFF-SITE.
4) EXISTING PAVEMENT VOLUME (CY), NOT AVAILABLE FOR FILL. ALL SALVAGED / UNUSABLE PAVEMENT MATERIAL EITHER BELOW OR ABOVE SUBGRADE IS SHOWN WITHIN THE ROADWAY ROW.
5) AVAILABLE MATERIAL = CUT - SALVAGED/UNUSABLE PAVEMENT MATERIAL.
6) REDUCED EBS IN FILL - FOR INFORMATION ONLY. EXCAVATED EBS MATERIALS ARE UNUSABLE IN FILLS OUTSIDE THE 1:1 SLOPE BETWEEN IH 94 AND THE FRONTAGE ROAD. EBS MATERIAL CAN BE USED OUTSIDE THE 1:1 SLOPE ON THE NON-IH 94 SIDE OF THE FRONTAGE ROAD.
7) EXPANDED EBS BACKFILL - THIS IS TO BE FILLED WITH SELECT BORROW MATERIAL. EBS BACKFILL FACTOR = 1.3 ITEM NUMBER 208.1100
8) UNEXPANDED FILL - FILL FROM END AREA EARTHWORK VOLUMES
9) EXPANDED FILL FACTOR = 1.20 (EXPANDED FILL DOES NOT CONTAIN EBS)
10) MASS ORDINATE = AVAILABLE MATERIAL - EXPANDED FILL. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE STAGE. MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE STAGE.
11) WASTE = MASS ORDINATE IF POSITIVE (FOR INFORMATION ONLY - BORROW = MASS ORDINATE IF NEGATIVE)
12) THE ESTIMATED AREA OUTSIDE THE 1:1 FILL SLOPES = LOCATION WHERE THE EBS AND CUT MATERIALS CAN BE WASTED (USED AT CONTRACTORS DISCRETION). AREA IS PART OF THE FILL NUMBERS. TO BE USED ONLY ON THE NON IH-94 SIDE.
13) EXISTING PAVEMENT EBS IS NOT INCLUDED IN THE TOTAL COMMON EXCAVATION; REMOVAL IS COVERED BY ITEM NUMBER 204.0100 "REMOVING PAVEMENT" AND IS SOLELY SHOWN TO QUANTIFY THE SELECT BORROW USED TO FILL TO THE SUBGRADE

3

GRANULAR BACKFILL ITEMS

CATEGORY	STATION	*209.2100 GRANULAR BACKFILL GRADE 2 CY
1000	WEST FRONTAGE ROAD	
	4680+00 - 2737+00	100
	UNDISTRIBUTED	50
	TOTAL	150

*GRANULAR BACKFILL USED TO BACKFILL HOLES RESULTING FROM STRUCTURE REMOVAL. SEE GENERAL NOTES FOR ADDITIONAL INFORMATION.

INCENTIVE IRI RIDE

CATEGORY	ROADWAY	LOCATION	440.4410 INCENTIVE IRI RIDE DOL
1000	IH-94	WEST FRONTAGE ROAD	4,311
	TOTAL		4,311

3

BASE AGGREGATE ITEMS

CATEGORY	STATION	305.0110 BASE AGGREGATE DENSE 3/4 INCH TON	305.0120 BASE AGGREGATE DENSE 1-1/4 INCH TON	311.0110 BREAKER RUN TON	**SPV.0195.006 SELECT SUBBASE TON	**645.0220 GEOGRID TYPE SR SY	645.0135 GEOTEXTILE TYPE SR SY
1000	WEST FRONTAGE ROAD						
	4680+00 - 4711+26	900	10,610	--	6,955	16,440	--
	2711+35 - 2737+00	700	8,885	--	5,635	13,330	--
	DRIVEWAYS	200	--	--	--	--	--
	RELIEF TRENCHES	--	--	--	50	--	--
	BRAUN ROAD						
	47+50 - 50+32	100	395	--	555	1,300	--
	TEMPORARY ACCESS						
	PROJECT LIMITS	--	90	--	--	--	--
	UNDISTRIBUTED	190	2,000	1,660	--	3,110	1,560
	TOTAL	2,090	21,980	1,660	13,195	34,180	1,560

** QUANTITY BASED ON PROJECT LENGTH. USAGE TO BE AUTHORIZED BY ENGINEER OR SOILS ENGINEER.
SEE GENERAL NOTES FOR ADDITIONAL INFORMATION.

ASPHALTIC DRIVEWAYS

CATEGORY	STATION	LOCATION	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON
1000	WEST FRONTAGE ROAD		
	4684+37	LT	4
	4693+33	LT	3
	4695+50	LT	8
	4703+16	LT	2
	4707+25	LT	3
	2731+76	LT	2
	TOTAL		22

ASPHALTIC ITEMS

CATEGORY	STATION	455.0605 TACK COAT GAL	460.5223 HMA PAVEMENT 3 LT 58-28 S TON	460.5224 HMA PAVEMENT 4 LT 58-28 S TON	460.2000 INCENTIVE DENSITY HMA PAVEMENT DOL	465.0315 ASPHALTIC FLUMES SY	495.1000.S COLD PATCH TON
1000	WEST FRONTAGE ROAD						
	4680+00 - 2737+00	1,120	4,180	2,895	4,528	70	--
	BRAUN ROAD						
	47+50 - 50+32	55	200	140	218	20	--
	UNDISTRIBUTED	--	--	--	--	--	20
	TOTAL	1,175	4,380	3,035	4,746	90	20

CURB AND GUTTER ITEMS

CATEGORY	STATION	LOCATION	601.0553 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D LF
1000	WEST FRONTAGE ROAD		
	4680+00 - 4710+75	RT	3,075
	4698+90 - 4705+80	LT	690
	2711+72 - 2719+00	RT	728
	BRAUN ROAD		
	48+91 - 49+49	LT	95
	49+21 - 49+59	RT	58
	49+99 - 50+32	RT	54
	TOTAL		4,700

DRIVEWAY CULVERT ITEMS

CATEGORY	STATION	OFFSET	SLOPE	DRIVEWAY WIDTH	ELEVATION	520.3315 CULVERT PIPE CLASS III-A 15-INCH LF	520.3318 CULVERT PIPE CLASS III-A 18-INCH LF	520.4118 CULVERT PIPE CLASS IV 18-INCH LF	521.1615 APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS STEEL 10 TO 1 15-INCH EACH	521.1618 APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS STEEL 10 TO 1 18-INCH EACH	STEEL THICKNESS INCHES
1000	WEST FRONTAGE ROAD										
	4684+27	37.0' LT	0.30%	35.0	739.70	--	--	42	--	2	0.064
	4707+25	45.1' LT	2.50%	20.0	747.88	--	--	35	--	2	0.064
	2731+75	41.0' LT	0.30%	15.0	740.60	--	39	--	--	2	0.064
	PRIVATE DRIVEWAY "W"										
	100+61	--	2.11%	24.0	740.44	34	--	--	2	--	0.064
	101+80	--	0.70%	24.0	736.35	--	64	--	--	2	0.064
	TOTALS					34	103	77	2	8	

NOTE
1) PIPE OFFSETS AND ELEVATIONS ARE TO THE CENTERLINE AND INVERT OF PIPE.

CROSS CULVERT ITEMS

CATEGORY	STATION	INLET END OFFSET	INLET END ELEV	INLET END STATION	DISCHARGE END OFFSET	DISCHARGE END ELEV	DISCHARGE END STATION	SLOPE	522.0330 CULVERT PIPE REINFORCED CONCRETE CLASS IV 30-INCH LF	SPV.0090.068 CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS IV 43 x 68-INCH LF	522.1030 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 30-INCH EACH	633.5200* MARKERS CULVERT END EACH	REMARKS
1000	WEST FRONTAGE ROAD												
	2728+73	26.0' LT	741.58	2728+58	27.0' RT	741.41	2728+89	0.28%	61	--	2	2	
	2734+20	32.0' LT	739.89	2734+20	33.0' RT	739.81	2734+20	0.12%	--	65	--	2	SEE CONCRETE MASONRY ENDWALLS
	2734+28	32.0' LT	739.89	2734+28	33.0' RT	739.81	2734+28	0.12%	--	65	--	2	SEE CONCRETE MASONRY ENDWALLS
	TOTALS								61	130	2	6	

NOTES
1) STATION OFFSETS SHOWN ARE TO THE CENTER OF INLET STRUCTURES OR END OF PIPE (NOT THE APRON END OF ENDWALLS).
2) PIPE LENGTH IS FROM END OF PIPE TO END OF PIPE AND DOES NOT INCLUDE LENGTH OF ENDWALL.

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

3

BOX CULVERT INLET REPAIR

CATEGORY	LOCATION	502.4104 ADHESIVE ANCHORS 1/2-INCH EACH	504.0100 CONCRETE MASONRY CULVERTS CY	505.0400 BAR STEEL REINFORCEMENT HS CULVERTS LB	516.0500 RUBBERIZED MEMBRANE WATERPROOFING SY
1000	WEST FRONTAGE ROAD				
	4696+40, 20' RT	4	0.2	10	0.3
	TOTAL	4	0.2	10	0.3

CONCRETE MASONRY ENDWALLS

CATEGORY	STATION	LOCATION	504.0900 CONCRETE MASONRY ENDWALLS CY
1000	WEST FRONTAGE ROAD		
	2734+25	LT	5
	2734+25	RT	5
	TOTAL		10

3

PIPE UNDERDRAIN ITEMS

CATEGORY	ROADWAY	STATION - STATION	OFFSET	612.0106* PIPE UNDERDRAIN 6-INCH LF	645.0111 GEOTEXTILE TYPE DF SY
1000	WEST FRONTAGE ROAD				
		4690+00 - 4693+00	RT	300	167
		4693+50 - 4695+90	RT	240	133
		4695+90 - 4698+50	RT	260	144
		4699+00 - 4701+50	LT	250	139
		4699+00 - 4701+50	RT	250	139
		4702+00 - 4704+50	LT	250	139
		4702+00 - 4704+50	RT	250	139
		4705+00 - 4705+50	LT	50	28
		4705+00 - 4705+50	RT	50	28
		4706+50 - 4708+00	RT	150	83
		4708+50 - 4710+00	RT	150	83
		2712+70 - 2715+50	RT	280	156
		2716+00 - 2719+50	RT	350	194
		TOTALS (I.D. 1030-24-78)		2,830	1,572

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

DRAIN TILE

CATEGORY	LOCATION	SPV.0200.002 MANHOLES 4-FT DIAMETER VF EACH	611.0535* MANHOLE COVERS TYPE J-SPECIAL EACH	612.0106* PIPE UNDERDRAIN 6-INCH LF	612.0108 PIPE UNDERDRAIN 8-INCH LF	612.0110 PIPE UNDERDRAIN 10-INCH LF	612.0112 PIPE UNDERDRAIN 12-INCH LF	608.0512 STORM SEWER PIPE REINFORCED CONCRETE CLASS V 12-INCH LF	612.0700 DRAIN TILE EXPLORATION LF
1000	UNDISTRIBUTED	60	10	200	200	200	200	625	500
	TOTAL	60	10	200	200	200	200	625	500

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

STORM SEWER ITEMS

CATEGORY	STRUCTURE NUMBER	STATION	OFFSET FT		611.2004 MANHOLES 4-FT DIA EACH	611.2006 MANHOLES 6-FT DIA EACH	611.2007 MANHOLES 7-FT DIA EACH	611.3230 INLETS 2x3-FT EACH	611.3902 INLETS MEDIAN 2 GRATE EACH	611.0535 MANHOLE COVERS TYPE JS EACH	611.0627 INLET COVERS TYPE HM EACH	611.0642 INLET COVERS TYPE MS EACH	RIM OR FLANGE ELEV	STR DEPTH FT	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE
1000	12 WEST FRONTAGE ROAD																		
	400	2716+00	19.01	RT	--	--	--	1	--	--	1	--	748.50	3.17	400	401	744.50	744.31	0.37%
	401	2716+00	33.02	RT	--	--	--	--	--	--	--	--	--	--	401	OUTFALL	744.30	--	--
	402	2712+67	41.09	LT	--	--	--	--	--	--	--	--	--	--	402	403A	742.19	741.99	0.33%
	403	2712+57	19.00	RT	1	--	--	--	--	--	1	--	746.15	3.94	403	604	741.38	741.10	0.22%
	403A	2712+67	18.88	RT	1	--	--	--	--	--	1	--	746.16	3.93	403A	403	741.40	741.38	0.20%
	403B	2712+77	18.92	RT	1	--	--	--	--	--	1	--	746.16	4.74	403B	403A	741.42	741.40	0.22%
	403C	2712+99	38.24	RT	--	--	--	--	--	--	--	--	--	--	403C	403B	743.34	741.92	4.90%
	404	4710+00	45.07	LT	--	--	--	--	--	--	--	--	--	--	404	406	743.50	742.52	1.92%
	405	4710+00	19.00	RT	--	--	--	1	--	--	1	--	748.29	4.26	405	406	743.20	742.90	2.31%
	406	4710+00	5.72	RT	--	--	1	--	--	1	--	--	748.71	8.53	406	408	739.10	738.60	0.25%
	407	4708+00	19.00	RT	--	--	--	1	--	--	1	--	751.57	4.74	407	408	746.00	745.70	2.31%
	408	4708+00	6.00	RT	--	--	1	--	--	1	--	--	751.99	12.81	408	411	738.10	737.50	0.20%
	409	4705+00	19.00	RT	--	--	--	1	--	--	1	--	752.55	4.12	409	411	747.60	747.30	2.31%
	410	4705+00	19.00	LT	--	--	--	1	--	--	1	--	753.01	4.58	410	411	747.60	747.10	2.00%
	411	4705+00	6.00	RT	--	--	1	--	--	1	--	--	752.98	14.40	411	414	737.50	736.90	0.20%
	412	4702+00	19.00	RT	--	--	--	1	--	--	1	--	748.43	4.00	412	414	743.60	743.30	2.31%
	412A	4702+00	27.00	RT	--	--	--	--	--	--	--	--	--	--	412A	412	744.43	744.35	1.00%
	413	4702+00	19.00	LT	--	--	--	1	--	--	1	--	749.16	4.73	413	414	743.60	743.10	2.00%
	414	4702+00	6.00	RT	--	--	1	--	--	1	--	--	748.85	10.87	414	415	736.90	736.44	0.20%
	415	4699+75	57.80	LT	--	--	--	--	--	--	--	--	--	--	415	OUTFALL	736.44	--	--
	416A	4699+00	33.00	RT	--	--	--	--	1	--	--	2	741.90	3.20	416A	416	738.70	738.60	0.71%
	416B	4697+94	36.00	RT	--	1	--	--	--	1	--	--	743.70	1.97	416B	416A	740.65	739.20	1.37%
	416	4699+00	19.00	RT	--	--	--	1	--	--	1	--	743.34	3.91	416	417	738.60	737.00	4.21%
	417	4699+00	19.00	LT	1	--	--	--	--	--	1	--	743.37	5.54	417	418	737.00	736.39	1.97%
	418	4698+90	49.04	LT	--	--	--	--	--	--	--	--	--	--	418	OUTFALL	736.39	--	--
	419	4696+00	19.00	RT	1	--	--	--	--	--	1	--	740.73	3.70	419	420	736.20	735.69	0.68%
	419A	4695+80	19.00	RT	1	--	--	--	--	--	1	--	740.74	3.31	419A	419B	736.60	736.30	3.00%
	419B	4695+90	19.00	RT	1	--	--	--	--	--	1	--	740.74	3.61	419B	419	736.30	736.20	1.00%
	419C	4696+00	27.00	RT	--	--	--	--	--	--	--	--	--	--	419C	419	737.03	736.95	1.00%
	420	4696+47	39.04	LT	--	--	--	--	--	--	--	--	--	--	420	OUTFALL	735.69	--	--
	421	4693+00	19.00	RT	1	--	--	--	--	--	1	--	741.95	3.42	421	422	737.70	737.46	0.28%
	421A	4702+00	27.00	RT	--	--	--	--	--	--	--	--	--	--	421A	421	738.53	738.45	1.00%
	422	4693+67	33.00	LT	--	--	--	--	--	--	--	--	--	--	422	OUTFALL	737.46	--	--
	423	4690+00	55.04	LT	--	--	--	--	--	--	--	--	--	--	423	424	735.35	735.10	0.34%
	424	4690+00	19.00	RT	--	--	1	--	--	--	1	--	743.45	7.52	424	424B	735.10	735.05	0.38%
	424A	4689+81	39.00	RT	--	--	1	--	--	1	--	--	741.20	5.12	424A	EXISTING	735.00	--	--
	424B	4690+00	32.00	RT	--	--	1	--	--	1	--	--	742.00	5.87	424B	424A	735.05	735.00	0.25%
	BRAUN ROAD																		
	601	50+50	19.00	RT	1	--	--	--	--	1	--	--	747.07	3.99	601	603	742.00	741.90	0.77%
	601C	50+42	19.00	RT	--	--	--	--	--	--	--	--	--	--	601C	601	742.08	742.00	1.00%
	601D	50+58	19.00	RT	--	--	--	--	--	--	--	--	--	--	601D	601	742.08	742.00	1.00%
	603	50+50	6.00	RT	--	1	--	--	--	1	--	--	747.06	5.58	603	604	740.40	739.60	1.60%
	603A	50+58	5.96	RT	--	--	--	--	--	--	--	--	--	--	603A	603	740.42	740.40	0.25%
	603B	50+50	2.00	LT	--	--	--	--	--	--	--	--	--	--	603B	603	741.93	741.90	0.37%
	604	50+50	6.00	RT	--	--	1	--	--	1	--	--	747.15	6.47	604	406	739.60	739.10	0.42%
					9	2	8	8	1	10	17	2							

NOTES

1) APRON ENDWALLS: STATIONS AND OFFSETS ARE TO THE APRON END OF ENDWALLS.
2) PIPE LENGTHS ARE MEASURED TO THE CENTER OF STRUCTURES OR TO THE APRON END OF ENDWALLS (INCLUDES LENGTH OF AEW).
3) MANHOLES AND INLETS: RIM ELEVATIONS, STATIONS AND OFFSETS ARE GIVEN AT THE CENTER OF CASTING
4) STRUCTURE DEPTH = RIM ELEVATION - INVERT - CASTING HEIGHT ADJUSTMENT
   CASTING HEIGHT = 0.75 FT FOR J COVERS; 0.5 FT FOR TYPE HM AND S COVERS; 0 FT FOR TYPE MS COVERS
   ADJUSTMENT (RINGS) = 0.33 FT FOR J, HM AND S COVERS; 0 FT FOR TYPE MS COVERS
5) FLAT TOP SLAB WITH CENTERED 24" X 36" RECTANGULAR OPENING REQUIRED ON MANHOLES WITH TYPE HM INLET COVERS

STORM SEWER ITEMS

CATEGORY	STRUCTURE NUMBER	STATION	OFFSET FT		608.0315 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 15-INCH LF	608.0318 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 18-INCH LF	608.0324 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 24-INCH LF	608.0342 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 42-INCH LF	608.0348 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 48-INCH LF	522.1018 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 18-INCH EACH	522.1024 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH EACH	522.1048 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 48-INCH EACH	523.0529 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 29X45-INCH EA	633.5200 MARKERS CULVERT END EACH	*204.0280 SEALING PIPE EACH	NOTES
1000	12 WEST FRONTAGE ROAD															
	400	2716+00	19.01	RT	--	--	52	--	--	--	--	--	--	--	--	
	401	2716+00	33.02	RT	--	--	--	--	--	--	1	--	--	1	--	
	402	2712+67	41.09	LT	--	--	60	--	--	--	1	--	--	1	--	
	403	2712+57	19.00	RT	--	--	130	--	--	--	--	--	--	--	--	SEE NOTE 5
	403A	2712+67	18.88	RT	--	--	10	--	--	--	--	--	--	--	--	
	403B	2712+77	18.92	RT	--	--	9	--	--	--	--	--	--	--	--	
	403C	2712+99	38.24	RT	--	29	--	--	--	1	--	--	--	1	--	TO BE REMOVED BY OTHERS UNDER FUTURE PROJECT 1030-24-79
	404	4710+00	45.07	LT	--	--	51	--	--	--	1	--	--	1	--	
	405	4710+00	19.00	RT	--	--	13	--	--	--	--	--	--	--	--	
	406	4710+00	5.72	RT	--	--	--	200	--	--	--	--	--	--	--	
	407	4708+00	19.00	RT	--	--	13	--	--	--	--	--	--	--	--	SEE NOTE 5
	408	4708+00	6.00	RT	--	--	--	--	300	--	--	--	--	--	--	
	409	4705+00	19.00	RT	--	--	13	--	--	--	--	--	--	--	--	
	410	4705+00	19.00	LT	--	--	25	--	--	--	--	--	--	--	--	
	411	4705+00	6.00	RT	--	--	--	--	300	--	--	--	--	--	--	
	412	4702+00	19.00	RT	--	--	13	--	--	--	--	--	--	--	--	
	412A	4702+00	27.00	RT	8	--	--	--	--	--	--	--	--	--	1	SEAL PIPE AT 412A
	413	4702+00	19.00	LT	--	--	25	--	--	--	--	--	--	--	--	
	414	4702+00	6.00	RT	--	--	--	--	234	--	--	--	--	--	--	
	415	4699+75	57.80	LT	--	--	--	--	--	--	--	1	--	1	--	
	416A	4699+00	33.00	RT	--	--	14	--	--	--	--	--	--	--	--	SINGLE SLOPE GRATE
	416B	4697+94	36.00	RT	--	106	--	--	--	--	--	--	--	--	--	
	416	4699+00	19.00	RT	--	--	38	--	--	--	--	--	--	--	--	
	417	4699+00	19.00	LT	--	--	31	--	--	--	--	--	--	--	--	
	418	4698+90	49.04	LT	--	--	--	--	--	--	1	--	--	1	--	
	419	4696+00	19.00	RT	--	--	75	--	--	--	--	--	--	--	--	SEE NOTE 5
	419A	4695+80	19.00	RT	--	--	10	--	--	--	--	--	--	--	--	
	419B	4695+90	19.00	RT	--	--	10	--	--	--	--	--	--	--	--	
	419C	4696+00	27.00	RT	8	--	--	--	--	--	--	--	--	--	1	SEAL PIPE AT 419C
	420	4696+47	39.04	LT	--	--	--	--	--	--	1	--	--	1	--	
	421	4693+00	19.00	RT	--	--	85	--	--	--	--	--	--	--	--	SEE NOTE 5
	421A	4702+00	27.00	RT	8	--	--	--	--	--	--	--	--	--	1	SEAL PIPE AT 421A
	422	4693+67	33.00	LT	--	--	--	--	--	--	1	--	--	1	--	
	423	4690+00	55.04	LT	--	--	--	--	74	--	--	1	--	1	--	
	424	4690+00	19.00	RT	--	--	--	--	13	--	--	--	--	--	--	SEE NOTE 5
	424A	4689+81	39.00	RT	--	--	--	--	--	--	--	--	--	--	--	TO BE REMOVED BY OTHERS UNDER FUTURE PROJECT 1030-24-79
	424B	4690+00	32.00	RT	--	--	--	--	20	--	--	--	--	--	--	TO BE REMOVED BY OTHERS UNDER FUTURE PROJECT 1030-24-79
	BRAUN ROAD															
	601	50+50	19.00	RT	--	--	13	--	--	--	--	--	--	--		
	601C	50+42	19.00	RT	--	--	8	--	--	--	--	--	--	--	1	SEAL PIPE AT 601C
	601D	50+58	19.00	RT	--	--	8	--	--	--	--	--	--	--	1	SEAL PIPE AT 601D
	603	50+50	6.00	RT	--	--	--	50	--	--	--	--	--	--		
	603A	50+58	5.96	RT	--	--	--	8	--	--	--	--	--	--	1	SEAL PIPE AT 603A
	603B	50+50	2.00	LT	--	--	8	--	--	--	--	--	--	--	1	SEAL PIPE AT 603B
	604	50+50	6.00	RT	--	--	--	119	--	--	--	--	--	--	--	
					24	135	714	377	941	1	6	2		9	7	

*ADDITIONAL QUANTITIES LISTED ELSEWHERE

3

FENCING ITEMS

CATEGORY	STATION	LOCATION	616.0100.001 FENCE WOVEN WIRE 4-FOOT LF	616.0700.S FENCE SAFETY LF
1000	WEST FRONTAGE ROAD			
	4680+00 - 4710+67	RT	3,070	--
	4701+60 - 4703+05	LT	--	145
	4703+25 - 4703+60	LT	--	135
	2711+86 - 2712+97	RT	112	--
	2721+25 - 2737+00	RT	1,575	--
	UNDISTRIBUTED		--	1,190
	TOTAL		4,757	1,470

MAINTENANCE AND REPAIR OF HAUL ROADS 1030-24-78

CATEGORY	STAGE		618.0100.006 EACH
1000	ALL	IH 94 MAINLINE	1
	TOTAL		1

3

MOBILIZATION

CATEGORY	LOCATION	619.1000 MOBILIZATION EACH
1000	WEST FRONTAGE ROAD (1030-24-78)	0.1
	TOTAL	0.1

SECTION CORNER MONUMENTS

CATEGORY	STATION		DESCRIPTION	SPV.0060.091 SECTION CORNER MONUMENTS EACH
1000	WEST FRONTAGE ROAD			
	4784+57.47	0' RT	T3N R21E NE1/4,SE1/4	1
	4711+24.21	24.8' RT	T3N R21E NE1/4,NE1/4	1
	TOTAL			2

DUST CONTROL SURFACE TREATMENT

CATEGORY	LOCATION	623.0200 DUST CONTROL SURFACE TREATMENT SY
1000	WEST FRONTAGE ROAD	29,000
	TOTAL	29,000

WATER ITEMS

CATEGORY	LOCATION	624.0100 WATER MGAL
1000	WEST FRONTAGE ROAD	355
	TOTAL	355

GUARDRAIL ITEMS

CATEGORY	STATION		LOCATION	614.0396 GUARDRAIL MOW STRIP ASPHALT SY	614.0925 SALVAGED GUARDRAIL END TREATMENTS EACH	614.2300 MGS GUARDRAIL 3 LF	614.2340 MGS GUARDRAIL 3 L LF	614.2610 MGS GUARDRAIL TERMINAL EAT EACH	REMARKS
1000	WEST FRONTAGE ROAD								
	4680+00	- 4680+50	RT	--	1	--	--	--	
	4680+00	- 4695+85	RT	--	--	1,585	--	--	
	4695+85	- 4696+85	RT	--	--	--	100	--	
	4696+85	- 4709+98	RT	--	--	1,313	--	1	
	4696+25	4697+25	LT	--	--	--	100	--	
	4689+00	- 4691+50	LT	148	--	150	--	2	
	4695+75	- 4698+50	LT	146	--	125	--	2	
	4700+75	- 4703+00	LT	--	--	125	--	2	
	4703+30	- 4706+30	LT	44	--	200	--	2	
	2712+00	- 2715+25	RT	--	--	225	--	2	
	2732+50	- 2735+25	RT	158	--	175	--	2	
	2733+25	- 2735+75	LT	148	--	150	--	2	
	TOTAL			644	1	4,048	200	15	

RESTORATION ITEMS

CATEGORY	STATION		LOCATION	625.0500 SALVAGED SPECIAL SY	627.0200 MULCHING SY	628.6510 SOIL STABILIZER TYPE B ACRE	SPV.0030.001 FERTILIZER TYPE B SPECIAL CWT	SPV.0085.002 SEEDING MIXTURE NO. 30 SPECIAL LB	630.0140 SEEDING MIXTURE NO. 40 LB	630.0200 SEEDING TEMPORARY LB
1000	WEST FRONTAGE ROAD									
	4680+00	- 2737+00	LT & RT	35,100	14,640	--	25	837	142	1,050
	BRAUN ROAD									
	47+50	- 50+32	LT & RT	1,200	1,200	--	1	40	--	40
	UNDISTRIBUTED			3,600	1,600	2.1	3	213	18	245
	TOTAL			39,900	17,440	2.1	29	1,090	160	1,335

3

TRACKING PADS

CATEGORY	STAGE	LOCATION	628.7560 TRACKING PADS EACH
1000	ALL	WEST FRONTAGE ROAD	2
	TOTAL		2

FIELD OFFICE

CATEGORY	LOCATION	SPV.0060.088 FIELD FACILITIES OFFICE SPACE LS
1000	WEST FRONTAGE ROAD	0.1
	TOTAL	0.1

3

SAW CUTTING ITEMS

CATEGORY	STATION	690.0150 SAWING ASPHALT LF	690.0250 SAWING CONCRETE LF	LOCATION
1000	WEST FRONTAGE ROAD			
	4680+00	33	--	PROJECT LIMIT
	4685+35	--	24	EXISTING CONCRETE SURFACE
	4689+78	--	24	EXISTING CONCRETE SURFACE
	4690+06	--	24	EXISTING CONCRETE SURFACE
	4692+33	--	24	EXISTING CONCRETE SURFACE
	2737+00	22	--	PROJECT LIMIT
	BRAUN ROAD			
	47+50	23	--	PROJECT LIMIT
	50+32 - 50+65	61	--	STAGING
	TOTAL	139	96	

CONSTRUCTION STAKING

CATEGORY	LOCATION	SPV.0105.026 SURVEY PROJECT LS
1000	WEST FRONTAGE ROAD (1030-24-78)	1
	TOTAL	1

PAVEMENT CLEANUP

CATEGORY	LOCATION	SPV.0075.027 PAVEMENT CLEANUP HRS
1000	WEST FRONTAGE ROAD (1030-24-78)	24
	TOTAL	24

3

TRAFFIC CONTROL (PROJECT)

CATEGORY	LOCATION	643.0100.026 TRAFFIC CONTROL EACH
1000	WEST FRONTAGE ROAD (1030-24-78)	1
	TOTAL	1

TRAFFIC CONTROL SIGNS FIXED MESSAGE

CATEGORY	LOCATION	STAGE	SIGN NO.	SIGN SIZE W x H FT x FT	643.1000 TRAFFIC CONTROL SIGNS FIXED MESSAGE SF
1000	WEST FRONTAGE ROAD	1	1201	8.5' x 3'	25.50
			1202	8.5' x 3'	25.50
			1203	8.5' x 3'	25.50
	BRAUN ROAD	1	1204	7.5' x 2'	15.00
	TOTAL				91.50

3

TRAFFIC CONTROL ITEMS

CATEGORY	LOCATION	STAGE DURATION DAYS	643.0300 TRAFFIC CONTROL DRUMS EACH*	643.0300 TRAFFIC CONTROL DRUMS DAYS	643.0420 TRAFFIC CONTROL BARRICADES TYPE III EACH*	643.0420 TRAFFIC CONTROL BARRICADES TYPE III DAYS	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A EACH*	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A DAYS	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C EACH*	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C DAYS	643.0900 TRAFFIC CONTROL SIGNS EACH*	643.0900 TRAFFIC CONTROL SIGNS DAYS	643.1050 TRAFFIC CONTROL SIGNS PCMS EACH*	643.1050 TRAFFIC CONTROL SIGNS PCMS DAYS
1000	WEST FRONTAGE ROAD	137	22	3,014	6	822	12	1,644	11	1,507	11	1,507	--	--
	BRAUN ROAD	137	--	--	7	959	14	1,918	--	--	10	1,370	--	--
	UNDISTRIBUTED		--	306	--	179	--	358	--	153	--	273	2	30
	TOTAL			3,320		1,960		3,920		1,660		3,150		30

* FOR INFORMATION ONLY

TRAFFIC CONTROL ITEMS

CATEGORY	LOCATION	STAGE	STATION	OFFSET	643.0920 TRAFFIC CONTROL COVERING SIGNS TYPE II EACH	NO. CYCLES	NO. SIGNS	SIGN MESSAGE
1000	WEST FRONTAGE ROAD UNDISTRIBUTED	1	--	--	5	1	5	VARIES
	TOTAL (1030-24-78)				5			

EROSION CONTROL ITEMS

CATEGORY	STATION	LOCATION	606.0100 RIPRAP LIGHT CY	606.0300 RIPRAP HEAVY CY	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINT LF	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH	628.2004 EROSION MAT CLASS I TYPE B SY	628.2008 EROSION MAT URBAN CLASS I TYPE B SY	628.7005 INLET PROTECTION TYPE A EACH	628.7010 INLET PROTECTION TYPE B EACH	628.7015 INLET PROTECTION TYPE C EACH	628.7504 TEMPORARY DITCH CHECK LF	628.7555 CULVERT PIPE CHECKS EACH	628.7570 ROCK BAGS EACH	645.0120 GEOTEXTILE TYPE HR SY	645.0130 GEOTEXTILE TYPE R SY	SPV.0090.084 HEAVY DUTY SILT FENCE LF	SPV.0090.085 TEMPORARY DITCH CHECK ROCK BAGS SINGLE LAYER LF	SPV.0090.086 TEMPORARY DITCH CHECK ROCK BAGS DOUBLE LAYER LF
1000	WEST FRONTAGE ROAD																				
	4680+00 - 2737+00	LT	9	115	1,460	1,460	--	--	4,850	3,850	3	--	3	150	90	34	323	48	815	--	--
	4680+00 - 2737+00	RT	6	67	1,410	1,410	--	--	5,400	6,360	16	--	14	100	10	17	165	32	445	--	--
	UNDISTRIBUTED		10	48	720	720	4	4	2,575	2,555	5	5	4	60	25	29	122	30	315	90	90
	TOTALS		25	230	3,590	3,590	4	4	12,825	12,765	24	5	21	310	125	80	610	110	1,575	90	90

PAVEMENT MARKING

CATEGORY	STATION	646.0106 PAVEMENT MARKING EPOXY 4-INCH YELLOW LF	646.2304.S PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH WHITE LF	647.0566 PAVEMENT MARKING STOP LINE EPOXY 18-INCH LF	648.0100 LOCATING NO-PASSING ZONES MILE	REMARKS
1000	WEST FRONTAGE ROAD				1.08	
	4680+00 - 4710+41	--	3,041	--	--	RIGHT EDGE OF PAVEMENT
	4680+00 - 4710+72	--	3,072	--	--	LEFT EDGE OF PAVEMENT
	4680+00 - 4687+25	725	--	--	--	CENTER LINE (NO PASSING-LT)
	4680+00 - 4687+25	182	--	--	--	CENTER LINE (PASSING-RT)
	4687+25 - 4705+00	444	--	--	--	CENTER LINE (PASSING)
	4705+00 - 4710+97	1,194	--	--	--	CENTER LINE (DOUBLE)
	4710+97	--	--	25	--	STOP BAR
	2711+89 - 2737+00	--	2,512	--	--	RIGHT EDGE OF PAVEMENT
	2711+65	--	--	38	--	STOP BAR
	2712+19 - 2737+00	--	2,482	--	--	LEFT EDGE OF PAVEMENT
	2711+65 - 2717+00	1,070	--	--	--	CENTER LINE (DOUBLE)
	2717+00 - 2727+50	263	--	--	--	CENTER LINE (PASSING)
	2727+50 - 2737+00	950	--	--	--	CENTER LINE (NO PASSING-RT)
	2727+50 - 2737+00	238	--	--	--	CENTER LINE (PASSING-LT)
	BRAUN ROAD					
	47+50 - 48+92	--	142	--	--	RIGHT EDGE OF PAVEMENT
	47+50 - 49+21	--	172	--	--	LEFT EDGE OF PAVEMENT
	47+50 - 49+21	342	--	--	--	CENTER LINE (DOUBLE)
	49+51	--	--	27	--	STOP BAR
	49+99	--	--	24	--	STOP BAR
	49+89 - 50+65	--	94	--	--	RIGHT EDGE OF PAVEMENT
	50+32 - 50+65	--	34	--	--	LEFT EDGE OF PAVEMENT
	49+99 - 50+65	132	--	--	--	CENTER LINE (DOUBLE)
	SUBTOTAL	5,539	11,549	--	--	
	TOTAL	5,539	11,549	114	1.08	

SIGN REMOVAL

CATEGORY	SIGN NUMBER	STATION	LOCATION	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORT EACH	SIGN MOUNTED ON SAME POST AS SIGN #	REMARKS
1000	WEST FRONTAGE ROAD						
	1R01	4680+50	LT	1	1	--	RIGHT REVERSE CURVE
	1R02	4680+50	LT	1	--	1R01	ADVISORY SPEED 35
	1R03	4683+00	LT	1	1	--	PEDESTRIAN CROSSING
	1R04	4683+00	LT	1	--	1R03	AHEAD
	2R01	4696+25	LT	1	1	--	NO PASSING ZONE
	2R02	4704+30	RT	1	1	--	STOP AHEAD
	3R01	4710+75	RT	1	1	--	STOP
	3R04	2712+03	LT	1	1	--	STOP
	3R05	2717+23	LT	1	1	--	STOP AHEAD
	3R06	2717+92	RT	1	1	--	NO PASSING ZONE
	4R01	2731+40	RT	1	1	--	LEFT CURVE
	4R02	2731+40	RT	1	--	4R01	ADVISORY SPEED 45
	4R03	2732+25	LT	1	1	--	NO PASSING ZONE
	BRAUN ROAD						
	3R02	49+21	RT	1	1	--	STOP
	3R03	50+16	LT	1	1	--	STOP
	3R07	43+75	RT	1	1	--	STOP AHEAD
	TOTAL			16	13	--	

PERMANENT SIGNING

CATEGORY	SIGN NUMBER	SIGN CODE	SIGN MESSAGE	SIGN SIZE INCH	X	INCH	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	STATION	LOCATION	SIGN MOUNTED ON SAME POST AS SIGN #	634.0614 POSTS WOOD 4x6-INCH x 14-FT EACH	634.0616 POSTS WOOD 4x6-INCH x 16-FT EACH
1000	WEST FRONTAGE ROAD												
	1P01	W1-4R	RIGHT REVERSE CURVE	36	X	36	--	9.00	4680+50	LT	--	--	1
	1P02	W13-1	ADVISORY SPEED 35 M.P.H.	24	X	24	--	4.00	4680+50	LT	1P01	--	--
	1P03	W11-2	PEDESTRIAN CROSSING	36	X	36	--	9.00	4683+00	LT	--	--	1
	1P04	W16-9P	AHEAD	24	X	12	--	2.00	4683+00	LT	1P03	--	--
	1P05	W14-3	NO PASSING ZONE	48	X	36	--	6.00	4687+20	RT	--	--	1
	2P01	W3-1	STOP AHEAD	36	X	36	--	9.00	4703+00	RT	--	--	1
	2P02	W14-3	NO PASSING ZONE	48	X	36	--	6.00	4705+00	LT	--	--	1
	3P01	R1-1	STOP	36	X	36	7.46	--	4710+80	RT	--	1	--
	3P05	R1-3-P	ALL WAY	24	X	9	1.50	--	4710+80	RT	3P01	--	--
	3P04	R1-1	STOP	36	X	36	7.46	--	2711+90	LT	--	1	--
	3P08	R1-3-P	ALL WAY	24	X	9	1.50	--	2711+90	LT	3P04	--	--
	3P09	R2-1	SPEED LIMIT 55	24	X	30	5.00	--	2715+00	RT	--	1	--
	3P10	W14-3	NO PASSING ZONE	48	X	36	--	6.00	2716+95	RT	--	--	1
	3P11	W3-1	STOP AHEAD	36	X	36	--	9.00	2719+50	LT	--	--	1
	4P01	W14-3	NO PASSING ZONE	48	X	36	--	6.00	2727+55	LT	--	--	1
	4P02	W3-5	SPEED LIMIT AHEAD 45	36	X	36	--	9.00	2731+00	RT	--	--	1
	4P03	W1-4L	LEFT REVERSE CURVE	36	X	36	--	9.00	2733+00	RT	--	--	1
	4P04	R2-1	SPEED LIMIT 55	24	X	30	5.00	--	2736+00	LT	--	1	--
	4P05	R2-1	SPEED LIMIT 45	24	X	30	5.00	--	2736+00	RT	--	1	--
	BRAUN ROAD												
	3P02	R1-1	STOP	36	X	36	7.46	--	49+43	RT	--	1	--
	3P06	R1-3-P	ALL WAY	24	X	9	1.50	--	49+43	RT	3P02	--	--
	3P03	R1-1	STOP	36	X	36	7.46	--	50+09	LT	--	1	--
	3P07	R1-3-P	ALL WAY	24	X	9	1.50	--	50+09	LT	3P03	--	--
	3P12	W3-1	STOP AHEAD	36	X	36	--	9.00	44+93	RT	--	--	1
	3P13	R1-1	STOP	36	X	36	7.46	--	50+09	RT	--	1	--
	3P14	R1-3-P	ALL WAY	24	X	9	1.50	--	50+09	RT	3P13	--	--
	TOTAL						59.80	93.00				8	11

TRANSPORTATION PROJECT PLAT NO: 1030-24-21- 4.01

THAT PART OF THE NORTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 36, TOWNSHIP 03 NORTH, RANGE 21 EAST, TOWN OF YORKVILLE, AND THAT PART OF THE NORTHWEST 1/4 OF THE SOUTHWEST 1/4 OF SECTION 31, TOWNSHIP 03 NORTH, RANGE 22 EAST, VILLAGE OF MOUNT PLEASANT, RACINE COUNTY, WISCONSIN.

RELOCATION ORDER I-94 AND FRONTAGE ROADS CTH KR TO STH 11 SEGMENT RACINE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	RELEASE OF RIGHTS	ROR
ACCESS RIGHTS	AR	REMAINING	REM.
ACRES	AC.	RIGHT-OF-WAY	R/W
AND OTHERS	ET.AL.	SECTION	SEC.
CENTERLINE	℄	STATION	STA.
CERTIFIED SURVEY MAP	CSM	TEMPORARY LIMITED EASEMENT	TLE
CORNER	COR.	VOLUME	V.
DOCUMENT	DOC.		
EASEMENT	EASE.		
HIGHWAY EASEMENT	H.E.		
LAND CONTRACT	LC		
MONUMENT	MON.		
PAGE	P.		
PERMANENT LIMITED EASEMENT	PLE		
PROPERTY LINE	PL		
RECORDED AS	(100')		
REFERENCE LINE	℞		

CURVE DATA

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE OR DELTA	DELTA
LENGTH OF CURVE	L
TANGENT	TAN

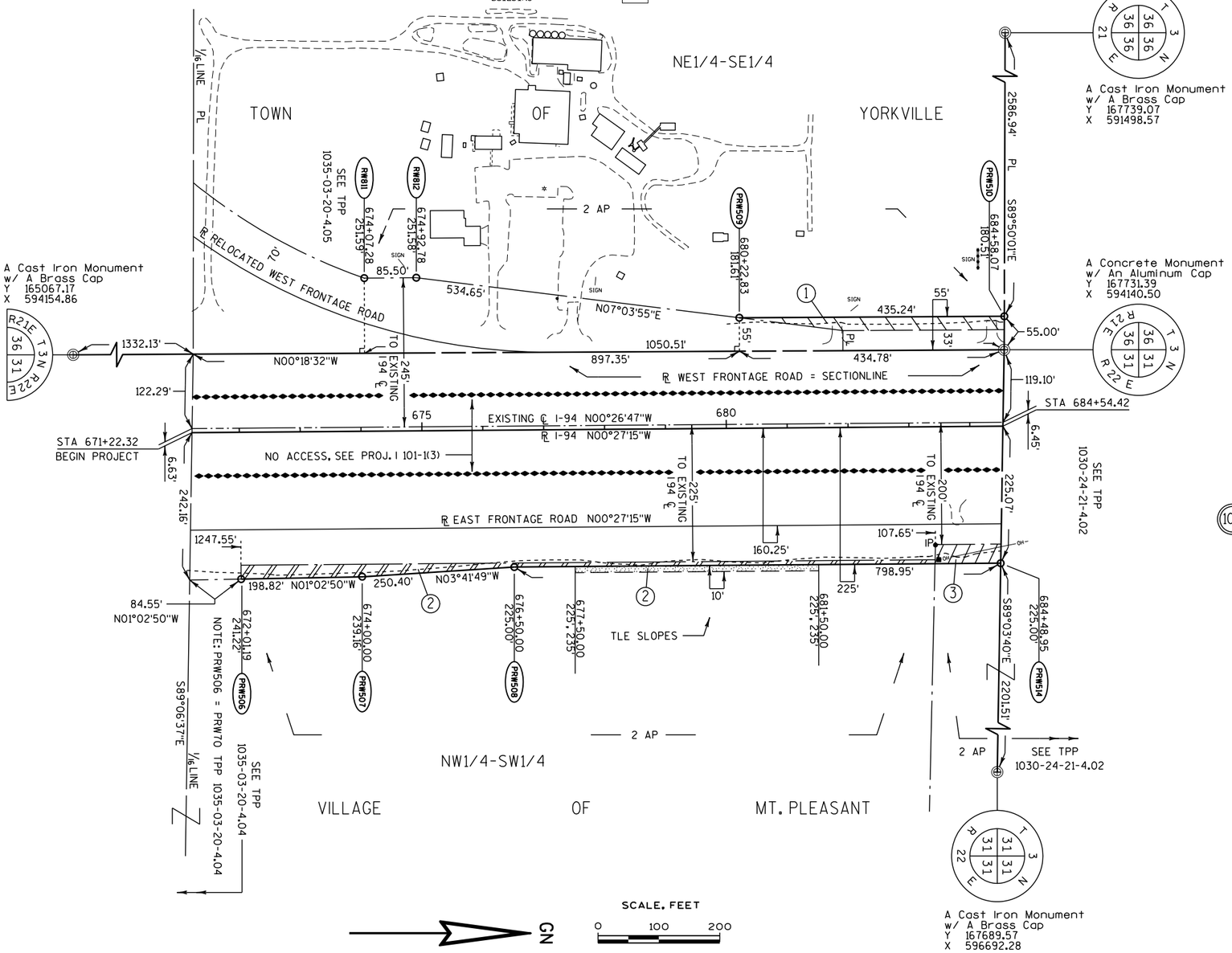
FOUND IRON PIPE/PIN	
R/W MONUMENT	
R/W STANDARD	
SIGN	
SECTION CORNER MONUMENT	
SECTION CORNER SYMBOL	
FEE (HATCH VARIES)	
TEMPORARY LIMITED EASEMENT	
PERMANENT LIMITED EASEMENT	
R/W BOUNDARY POINT	
PARCEL NUMBER	
UTILITY NUMBER	
SIGN NUMBER (OFF PREMISE)	
BUILDING	

CONVENTIONAL SYMBOLS

LS (1" UNLESS NOTED)	PROPOSED R/W LINE
•(SET)	EXISTING H.E. LINE
▲(SET)	PROPERTY LINE
ISIGN	LOT & TIE LINES
	SLOPE INTERCEPTS
	CORPORATE LIMITS
	NO ACCESS (BY PREVIOUS ACQUISITION/CONTROL)
	NO ACCESS (BY ACQUISITION)
	NO ACCESS (BY STATUTORY AUTHORITY)
	SECTION LINE
RWB20	QUARTER LINE
102	SIXTEENTH LINE
92	EXISTING CENTERLINE
21-1	PROPOSED REFERENCE LINE
	PARALLEL OFFSET

CONVENTIONAL UTILITY SYMBOLS

	NON COMPENSABLE	COMPENSABLE
WATER	W	
GAS	G	
TELEPHONE	T	
OVERHEAD TRANSMISSION LINES	OH	
ELECTRIC	E	
CABLE TELEVISION	TV	
FIBER OPTIC	FO	
SANITARY SEWER	SAN	
STORM SEWER	SS	
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		
ELECTRIC TOWER		



NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, RACINE COUNTY ZONE, NAD83 (97) ADJUSTMENT AND ARE REFERENCED TO GPS HARN POINTS YORKVILLE EAST, PARIS EAST, AND RAYMOND SOUTH. ALL DISTANCES ARE GROUND LENGTH.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY WISDOT SE REGION SURVEY UNIT.

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS OF PUBLIC RECORD".

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY LINES, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

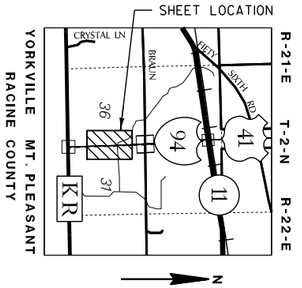
FOR THE LATEST ACCESS / DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE. ALL TLEs EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

SCHEDULE OF LANDS & INTERESTS REQUIRED		OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.					
PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED ACRES NEW	EXISTING	TOTAL	T.L.E. TEMP. ACRES	P.L.E. PERM. ACRES
1	FLANNERY LAND HOLDINGS LLC	Fee AR	0.177	0.201	0.378	0.000	0.000
2	ANNA MARIE SAFRANSKY ECKELBERG, ET. AL.	Fee AR TLE	0.281	0.000	0.281	0.092	0.000
3	ERICKSON TRUCK SALES & SALVAGE INC.	Fee AR	0.078	0.000	0.078	0.000	0.000
UTILITY NUMBER	OWNER	INTEREST REQUIRED					
100	WE ENERGIES ELECTRIC	ROR					

(100) NO RECORDED EASEMENT PCL. 3

HIGHWAY	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
I-94	I 101-1(3)	VARIES	1956
I-94	DJ 2617	VARIES	1945



THIS IS A COPY, THE ORIGINAL DOCUMENT IS AT THE RACINE COUNTY REGISTER OF DEEDS

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE: 6-3-2011 — O E Andersen — Name Title

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 6-3-2011 — Paul Krause — Name PAUL KRAUSE

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1030-24-21- 4.01
AMENDMENT NO:

DOCUMENT # 2286284
RACINE COUNTY REGISTER OF DEEDS
June 08, 2011 11:37 AM
TRACEY L. FEICHTNER
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: $25.00
Pages: 1
Vol 1 Pg 168

FILE NAME : J:\projects\d2_r_10302494\21\040401_rp.dgn PLOT DATE : 02-JUN-2011 09:14 PLOT BY : dotphk PLOT NAME : PLOT SCALE : 100.000000:1.000000

CONST.# 1030-24-77/78/79 I-94 1030-24-21 4.01

TRANSPORTATION PROJECT PLAT NO: 1030-24-21 - 4.02

THAT PART OF THE SOUTHEAST 1/4 OF THE NORTHEAST 1/4 AND THE NORTHEAST 1/4 OF THE NORTHEAST 1/4 OF SECTION 36, TOWNSHIP 03 NORTH, RANGE 21 EAST, TOWN OF YORKVILLE, AND THAT PART OF THE SOUTHWEST 1/4 OF THE NORTHWEST 1/4 AND THE NORTHWEST 1/4 OF THE NORTHWEST 1/4 OF SECTION 31, TOWNSHIP 03 NORTH, RANGE 22 EAST, VILLAGE OF MT. PLEASANT, RACINE COUNTY, WISCONSIN.

RELOCATION ORDER I-94 AND FRONTAGE ROADS CTH KR TO STH 11 SEGMENT RACINE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

SCHEDULE OF LANDS & INTERESTS REQUIRED		OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.					
PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED ACRES NEW	EXISTING	TOTAL	T.L.E. TEMP. ACRES	P.L.E. PERM. ACRES
3	ERICKSON TRUCK SALES & SALVAGE INC.	Fee AR TLE	0.246	0.000	0.246	0.115	0.000
4	SUPER MIX PROFIT SHARING TRUST	Fee AR PLE TLE	0.174	0.000	0.174	0.102	0.003
5	LEONARD INVESTMENTS LLC	Fee AR PLE TLE	0.314	0.000	0.314	0.017	0.009
6	UNIVERSITY OF LAWSONOMY	Fee AR	0.466	0.000	0.466	0.000	0.000
7	ALVIN R. & JEAN R. WILKES REVOCABLE TRUST	Fee AR TLE	1.425	1.266	2.691	0.337	0.000
8	SYLVANIA CEMETERY ASSOCIATION	Fee AR	0.000	0.246	0.246	0.000	0.000

HIGHWAY	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
I-94	I 101-1(3)	VARIES	1956
I-94	DJ 2617	VARIES	1945
BRAUN ROAD WEST	TOWN ROAD V. 1 P. 169	66'	1850
BRAUN ROAD EAST	WIDTH BY SS 82.31(2)	66'	

UTILITY NUMBER	OWNER	INTEREST REQUIRED
100	WE ENERGIES ELECTRIC	ROR

(100) DOC 982435 V. 1332 P. 479 PCL. 3
DOC 1281915 V. 1960 P. 348 PCL. 3
DOC 450900 V. 371 P. 493 PCL. 7
DOC 864033 V. 1042 P. 326 PCL. 7

TOWN OF YORKVILLE

VILLAGE OF MT. PLEASANT

SE1/4-NE1/4 NE1/4-NE1/4 SW1/4-NW1/4 NW1/4-NW1/4

YORKVILLE MT. PLEASANT RACINE COUNTY

SHEET LOCATION

A Cast Iron Monument
w/ A Brass Cap
Y 167739.07
X 591498.57

A Concrete Monument
w/ Aluminum Cap
Y 167739.50
X 594140.50

A Cast Iron Monument
w/ A Brass Cap
Y 170411.23
X 591482.10

A Cast Iron Monument
w/ A Brass Cap
Y 170399.04
X 594126.81

A Cast Iron Monument
w/ A Brass Cap
Y 170341.77
X 596664.43

A Cast Iron Monument
w/ A Brass Cap
Y 167689.57
X 596692.28

SEE TPP 1030-24-21-4.01

SEE TPP 1030-24-21-4.03

SEE TPP 1030-24-21-4.03

SEE TPP 1030-24-21-4.01

STA 684+54.42

STA 711+21.55 = STA 51+18.11 BRAUN RD.

℄ WEST FRONTAGE ROAD = SECTIONLINE

℄ EAST FRONTAGE ROAD

℄ I-94 N00°27'15"W

EXISTING ℄ I-94 N00°26'47"W

NO ACCESS, SEE PROJ. I 101-1(3)

NO ACCESS SEE PROJ. I 101-1(3)

TLE SLOPES AND DRIVE

TLE DRIVE

PLE DRAINAGE 35' X 15'

CEMETERY

BRAUN ROAD

NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, RACINE COUNTY ZONE, NAD83 (97) ADJUSTMENT AND ARE REFERENCED TO GPS HARN POINTS YORKVILLE EAST, PARIS EAST, AND RAYMOND SOUTH. ALL DISTANCES ARE GROUND LENGTH.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY WISDOT SE REGION SURVEY UNIT.

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS OF PUBLIC RECORD".

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY LINES, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

FOR THE LATEST ACCESS / DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE. ALL TLEs EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

A PERMANENT LIMITED EASEMENT (PLE) IS A RIGHT FOR CONSTRUCTION AND MAINTENANCE PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE. BUT WITHOUT PREJUDICE TO THE OWNER'S RIGHT TO MAKE OR CONSTRUCT IMPROVEMENT ON SAID LANDS OR TO FLATTEN THE SLOPES, PROVIDING SAID ACTIVITIES WILL NOT IMPAIR OR OTHERWISE ADVERSELY AFFECT THE HIGHWAY FACILITIES.

CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN	1/2" (1" UNLESS NOTED)	PROPOSED R/W LINE	
R/W MONUMENT	•(SET)	EXISTING H.E. LINE	
R/W STANDARD	▲(SET)	PROPERTY LINE	
SIGN	ISIGN	LOT & TIE LINES	
SECTION CORNER MONUMENT		SLOPE INTERCEPTS	
SECTION CORNER SYMBOL		CORPORATE LIMITS	
FEE (HATCH VARIES)		NO ACCESS (BY PREVIOUS ACQUISITION/CONTROL)	
TEMPORARY LIMITED EASEMENT		NO ACCESS (BY ACQUISTION)	
PERMANENT LIMITED EASEMENT		NO ACCESS (BY STATUTORY AUTHORITY)	
R/W BOUNDARY POINT	RWB20	SECTION LINE	
PARCEL NUMBER	02	QUARTER LINE	
UTILITY NUMBER	92	SIXTEENTH LINE	
SIGN NUMBER (OFF PREMISE)	21-1	EXISTING CENTERLINE	
BUILDING		PROPOSED REFERENCE LINE	
		PARALLEL OFFSET	

CONVENTIONAL ABBREVIATIONS

ACCESS POINT	AP	RELEASE OF RIGHTS	ROR
ACCESS RIGHTS	AR	REMAINING	REM.
ACRES	AC.	RIGHT-OF-WAY	R/W
AND OTHERS	ET.AL.	SECTION	SEC.
CENTERLINE	℄	STATION	STA.
CERTIFIED SURVEY MAP	CSM	TEMPORARY LIMITED EASEMENT	TLE
CORNER	COR.	VOLUME	V.
DOCUMENT	DOC.		
EASEMENT	EASE.	CURVE DATA	
HIGHWAY EASEMENT	H.E.	LONG CHORD	LCH
LAND CONTRACT	LC	LONG CHORD BEARING	LCB
MONUMENT	MON.	RADIUS	R
PAGE	P.	DEGREE OF CURVE	D
PERMANENT LIMITED EASEMENT	PLE	CENTRAL ANGLE OR DELTA	DELTA
PROPERTY LINE	PL	LENGTH OF CURVE	L
RECORDED AS	(100')	TANGENT	TAN
REFERENCE LINE	℄		

CONVENTIONAL UTILITY SYMBOLS

	NON COMPENSABLE	COMPENSABLE
WATER —W—		
GAS —G—		
TELEPHONE —T—		
OVERHEAD —OH—		
TRANSMISSION LINES ELECTRIC —E—		
CABLE TELEVISION —TV—		
FIBER OPTIC —FO—		
SANITARY SEWER —SAN—		
STORM SEWER —SS—		
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		
ELECTRIC TOWER	⊠	

THIS IS A COPY, THE ORIGINAL DOCUMENT IS AT THE RACINE COUNTY REGISTER OF DEEDS

GN SCALE: FEET 0 100 200

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE: 6-3-2011 D E Andersen
Name
Title

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 6-3-2011 Paul Krause
Name PAUL KRAUSE

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1030-24-21 - 4.02
AMENDMENT NO:

DOCUMENT # 2286285
RACINE COUNTY REGISTER OF DEEDS
June 08, 2011 11:37 AM
TARREY L FEICHTNER
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: $25.00
Pages: 1
Vol 1 Pg 169

85

FILE NAME : J:\projects\d2_r_10302494\21\040402_rp.dgn PLOT DATE : 02-JUN-2011 09:34 PLOT BY : dotphk PLOT NAME : PLOT SCALE : 100.000000:1.000000

CONST.# 1030-24-77/78/79 I-94 1030-24-21 4.02

TRANSPORTATION PROJECT PLAT NO: 1030-24-21 - 4.03

THAT PART OF THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 AND THE NORTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 25, TOWNSHIP 03 NORTH, RANGE 21 EAST, TOWN OF YORKVILLE, AND THAT PART OF THE SOUTHWEST 1/4 OF THE SOUTHWEST 1/4 AND THE NORTHWEST 1/4 OF THE SOUTHWEST 1/4 OF SECTION 30, TOWNSHIP 03 NORTH, RANGE 22 EAST, VILLAGE OF MT. PLEASANT, RACINE COUNTY, WISCONSIN.

RELOCATION ORDER I-94 AND FRONTAGE ROADS CTH KR TO STH 11 SEGMENT RACINE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

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SCHEDULE OF LANDS & INTERESTS REQUIRED			OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.					
PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED ACRES NEW	EXISTING	TOTAL	T.L.E. TEMP. ACRES	P.L.E. PERM. ACRES
9	MILOVAN GRCIC & DANNY CHRISTOFALOS	Fee AR	0.243	0.000	0.243	0.000	0.000
10	DONALD B. & CAROL E. LEE	Fee TLE	0.259	0.000	0.259	0.092	0.000
11	SLAVKO M. GRCIC & DANNY CHRISTOFALOS	Fee AR TLE	0.140	0.000	0.140	0.050	0.000
12	LEWIS EARL SCHULTZ, ET. AL.	Fee AR	0.090	0.000	0.090	0.000	0.000
13	MARION J. KAYE	Fee AR TLE	0.056	0.000	0.056	0.040	0.000
14	VERENA PETERSEN RVC. LIVING TRUST	Fee AR	0.028	0.000	0.028	0.000	0.000
15	MAXINE M. PETERSEN	Fee	0.048	0.000	0.048	0.000	0.000
UTILITY NUMBER	OWNER	INTEREST REQUIRED					
110	VERIZON WIRELESS	ROR					

HIGHWAY	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
I-94	I 101-1(3)	VARIES	1956
BRAUN ROAD WEST	TOWN ROAD VOL. 1 P. 169	66'	1850
BRAUN ROAD EAST	WIDTH BY SS 82.31(2)	66'	

RL I-94
PISTA 718+06.87
Y 594239.46
X 171081.68
PC STA 713+75.98
PT STA 722+37.48
DELTA 03°31'33"
D 00°24'33"
L 861.51'
R 14000.00'
LCH 861.37'
LCB N 02°13'01" W

CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN	LP (1" UNLESS NOTED)	PROPOSED R/W LINE	
		EXISTING H.E. LINE	
R/W MONUMENT	●(SET)	PROPERTY LINE	
R/W STANDARD	▲(SET)	LOT & TIE LINES	
SIGN	ISIGN	SLOPE INTERCEPTS	
SECTION CORNER MONUMENT		CORPORATE LIMITS	
SECTION CORNER SYMBOL		NO ACCESS (BY PREVIOUS ACQUISITION/CONTROL)	
FEE (HATCH VARIES)		NO ACCESS (BY ACQUISITION)	
TEMPORARY LIMITED EASEMENT		NO ACCESS (BY STATUTORY AUTHORITY)	
PERMANENT LIMITED EASEMENT		SECTION LINE	
R/W BOUNDARY POINT	RWB20	QUARTER LINE	
PARCEL NUMBER	102	SIXTEENTH LINE	
UTILITY NUMBER	92	EXISTING CENTERLINE	
SIGN NUMBER (OFF PREMISE)	21-1	PROPOSED REFERENCE LINE	
BUILDING		PARALLEL OFFSET	

A Cast Iron Monument w/ A Brass Cap Y 170411.23 X 591482.10

A Cast Iron Monument w/ A Brass Cap Y 170399.04 X 594126.81

A Cast Iron Monument w/ A Brass Cap Y 173056.26 X 591480.34

NOTE: THE WITNESS CORNER IS 1.05' SOUTH OF THE EAST WEST 1/4-LINE
A Cast Iron Monument w/ A Brass Cap Y 173044.05 X 593877.43

A Cast Iron Monument w/ A Brass Cap Y 172998.34 X 596640.31

True Corner No Monument Y 173044.02 X 594210.76

A Cast Iron Monument w/ A Brass Cap Y 170341.77 X 596664.43

SCALE, FEET
0 100 200

GN

TOWN OF YORKVILLE

VILLAGE OF MT PLEASANT

SE1/4-SE1/4

NE1/4-SE1/4

SW1/4-SW1/4

NW1/4-SW1/4

R BRAUN ROAD = SECTION LINE

PL / I-45

2366.76' S89°44'10"E

277.99'

2036.25'

PL

I-94 RL STA 711+21.55 = STA 51+18.11 BRAUN RD.

SEE TPP 1030-24-21-4.02

SEE TPP 1030-24-20-4.01

AR SEE TPP 1030-24-20-4.01

DOC. 2137021 PCL. 10

1/16 LINE

1 AP

TLE SLOPES

WEST R/W CURVE
L 847.05'
R 13765.00'
LCH 846.91'
LCB N 02°13'01" W

EAST R/W CURVE
L 495.31'
R 14225.00'
LCH 495.29'
LCB N 02°58'56" W

EAST R/W CURVE
L 380.30'
R 14235.00'
LCH 380.29'
LCB N 01°13'10" W

R WEST FRONTAGE ROAD

R EAST FRONTAGE ROAD

EXISTING ℄ I-94 N03°58'47"W

PC EXISTING ℄ I-94

PT EXISTING ℄ I-94

PI ℄ WEST FRONTAGE ROAD

STA 735+08.09 ℄ CROSSES SECL.

STA 737+73.77 END PROJECT

NO ACCESS SEE PROJ. I 101-1(3)

NO ACCESS, SEE PROJ. I 101-1(3)

TO EXISTING 194 ℄

2644.99' COR. TO COR.

NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, RACINE COUNTY ZONE, NAD83 (97) ADJUSTMENT AND ARE REFERENCED TO GPS HARN POINTS YORKVILLE EAST, PARIS EAST, AND RAYMOND SOUTH. ALL DISTANCES ARE GROUND LENGTH.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY WISDOT SE REGION SURVEY UNIT.

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CONVENTIONAL ABBREVIATIONS

ACCESS POINT	AP	RELEASE OF RIGHTS	ROR
ACCESS RIGHTS	AR	REMAINING	REM.
ACRES	AC.	RIGHT-OF-WAY	R/W
AND OTHERS	ET.AL.	SECTION	SEC.
CENTERLINE	℄	STATION	STA.
CERTIFIED SURVEY MAP	CSM	TEMPORARY LIMITED EASEMENT	TLE
CORNER	COR.	VOLUME	V.
DOCUMENT	DOC.		
EASEMENT	EASE.	CURVE DATA	
HIGHWAY EASEMENT	H.E.	LONG CHORD	LCH
LAND CONTRACT	LC	LONG CHORD BEARING	LCB
MONUMENT	MON.	RADIUS	R
PAGE	P.	DEGREE OF CURVE	D
PERMANENT LIMITED EASEMENT	PLE	CENTRAL ANGLE OR DELTA	DELTA
PROPERTY LINE	PL	LENGTH OF CURVE	L
RECORDED AS	(100')	TANGENT	TAN
REFERENCE LINE	℞		

CONVENTIONAL UTILITY SYMBOLS

WATER	W	
GAS	G	
TELEPHONE	T	
OVERHEAD	OH	
TRANSMISSION LINES		
ELECTRIC	E	
CABLE TELEVISION	TV	
FIBER OPTIC	FO	
SANITARY SEWER	SAN	
STORM SEWER	SS	
	NON COMPENSABLE	COMPENSABLE
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		
ELECTRIC TOWER		

THIS IS A COPY, THE ORIGINAL DOCUMENT IS AT THE RACINE COUNTY REGISTER OF DEEDS

SHEET LOCATION

YORKVILLE MT. PLEASANT RACINE COUNTY

T-2-N R-21-E R-22-E

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION

DATE: 6-3-2011 — O.E. Andersen — Name Title

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 6-3-2011 — Paul Krause — Name PAUL KRAUSE

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1030-24-21 - 4.03
AMENDMENT NO:

DOCUMENT # 2286286
RACINE COUNTY REGISTER OF DEEDS
June 08, 2011 11:37 AM

TRACEY L FEICHTNER
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: $25.00
Pages: 1

Vol 1 Pg 170

FILE NAME : J:\projects\d2_r_10302494\21\040403_rp.dgn PLOT DATE : 02-JUN-2011 09:40 PLOT BY : dotphk PLOT NAME : PLOT SCALE : 100.000000:1.000000

CONST.# 1030-24-77/78/79 I-94 1030-24-21 4.03

BENCHMARK

NO.	COORDINATES	DESCRIPTION	ELEVATION
68041	STA 680+40.73 90.91' LT (94 R)	CP BM TOP SW BOLT W LEG SIGN POST BASE EXIT 337 SIGN W SIDE SB 194	739.254

LEGEND

PERMITTED WETLAND IMPACTS

FLANNERY LAND HOLDINGS

WILKES TRUST

W-64
0.062 AC

STA. 4684+27, LT
CONSTRUCT CE
1-18" CP REQ'D.

EXIST R/W

PROP R/W

SLOPE INTERCEPT

POSSIBLE DRAINTILE;
DRAINTILE EXPLORATION REQ'D

STA. 4693+33, LT
CONSTRUCT FE

WEST FRONTAGE ROAD

BM 68041

W-11
0.119 AC

IH-94 SB

IH-94 NB

R/L WEST FRONTAGE ROAD

R/L IH 94

SLOPE INTERCEPT

MATCHLINE 4694+50

BEGIN PROJECT
I.D. 1030-24-78
STA. 4680+00
=MATCH PROJECT
I.D. 1035-03-75 (PREVIOUSLY CONSTRUCTED)

EAST FRONTAGE ROAD

EXISTING BOX CULVERT
C-51-12

VCL 400.00
K = 1146.14

+0.34 %

+0.68 %

-0.50 %

VPC STA 4681+00.00
VPC EL742.09

VPI STA 4683+00.00
VPI EL742.76

VPT STA 4685+00.00
VPT EL744.13

VPC STA 4685+50.00
VPC EL744.47

VPI STA 4687+00.00
VPI EL745.50

VPT STA 4688+50.00
VPT EL744.75

HP STA 4687+23.42
HP EL745.07

K = 253.16
VCL 300.00

EXISTING PROFILE ELEVATIONS

FINISHED PROFILE ELEVATIONS

FINISHED PROFILE AT R/L WEST FRONTAGE ROAD

EXISTING PROFILE AT R/L WEST FRONTAGE ROAD

4680	4682	4684	4686	4688	4690	4692	4694
741.75	741.75	741.84	741.92	742.00	742.09	742.17	742.27
741.71	741.55	741.35	741.48	741.47	741.50	741.55	741.62
742.36	742.47	742.58	742.69	742.81	742.93	743.06	743.20
741.64	741.68	741.74	741.81	741.86	741.90	741.94	741.97
743.34	743.49	743.64	743.80	743.96	744.47	744.63	744.77
741.97	741.94	741.90	741.81	741.72	741.42	741.25	741.07
744.88	744.96	745.02	745.06	745.07	745.05	745.01	744.95
740.90	740.72	740.53	740.36	740.26	740.23	740.15	739.96
744.86	744.75	744.62	744.50	744.37	744.25	744.12	744.00
739.89	739.83	739.71	739.67	739.66	739.66	739.66	739.66
743.87	743.75	743.62	743.62	743.50	743.37	743.25	743.12
739.64	739.62	739.65	739.69	739.76	739.84	739.96	740.03
742.87	742.75	742.62	742.50	742.37	742.25	742.12	742.00
740.07	740.12	740.18	740.23	740.25	740.23	740.22	740.25
741.87	741.75						
740.29							

PROJECT NO: 1030-24-78	HWY: IH 94	COUNTY: RACINE	PLAN & PROFILE: WEST FRONTAGE ROAD	SHEET 87	E

FILE NAME : Z:\Racine\CADDS\12\12W\CDS\050101_PP.dgn

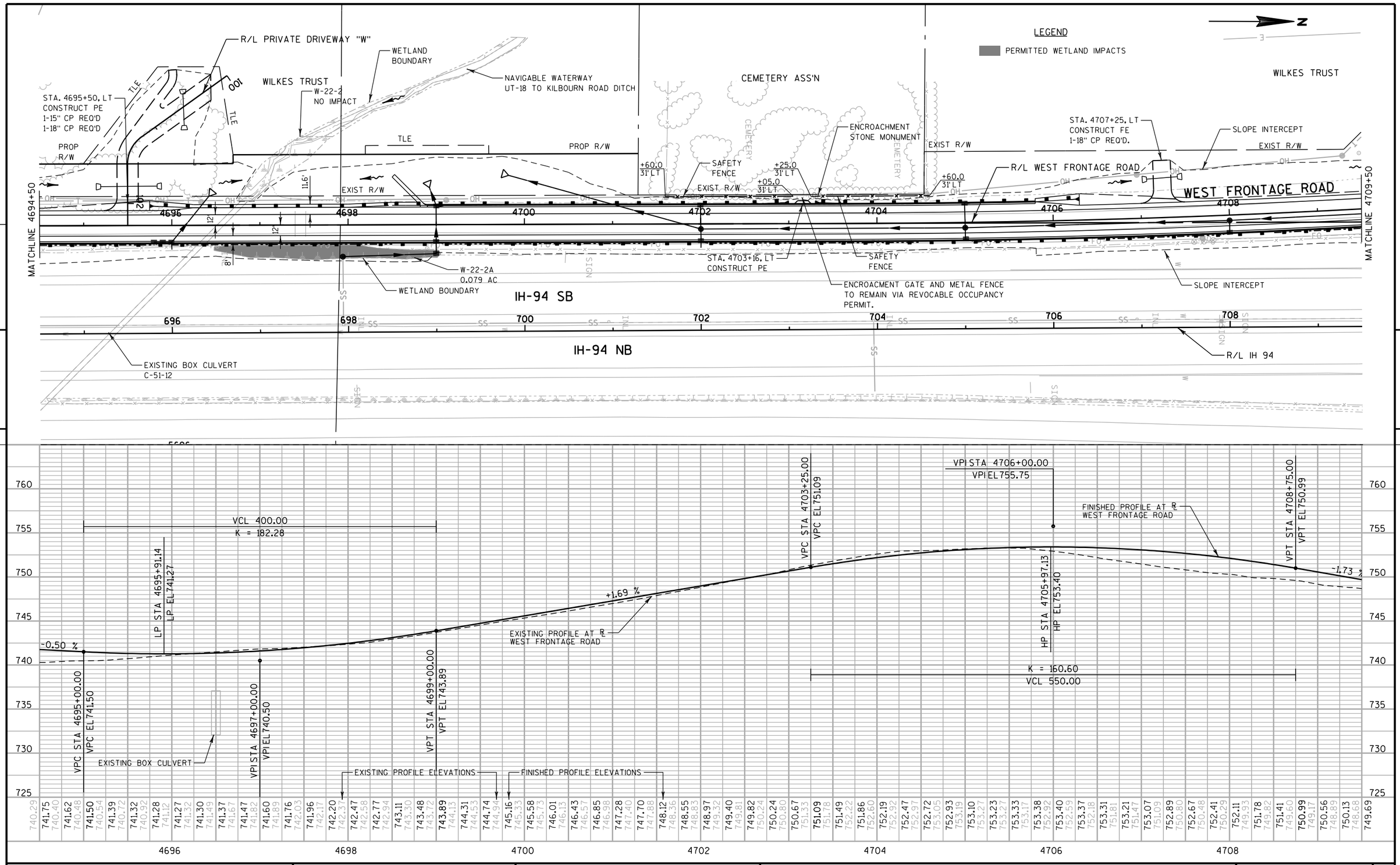
PLOT DATE : 9/18/2017

PLOT BY : cory.ihde

PLOT NAME : $FILE$

PLOT SCALE : 1:100

WISDOT/CADDS SHEET 40



PROJECT NO: 1030-24-78	HWY: IH 94	COUNTY: RACINE	PLAN & PROFILE: WEST FRONTAGE ROAD	SHEET 88	E

BENCHMARK

NO.	COORDINATES	DESCRIPTION	ELEVATION
71187	STA 711+86.89 66.94'LT (94 R.)	CP BM BRIDGE DISK TOP PARAPET WALL NW CORNER I94 BRIDGE OVER BRAUN RD	767.073
71058	STA 710+58.19 54.06'RT (94 R.)	CP BM BRIDGE DISK TOP PARAPET WALL SE CORNER I94 BRIDGE OVER BRAUN RD	767.080

BEGIN CONSTRUCTION
STA. 47+50
MATCH EXISTING

STATION EQUATION
STA. 4711+25.94 BK=
STA. 2711+35.24 AH=
STA. 49+75.09 BRAUN RD.

END CONSTRUCTION
STA. 50+32
MATCH EXISTING

LEGEND
PERMITTED WETLAND IMPACTS

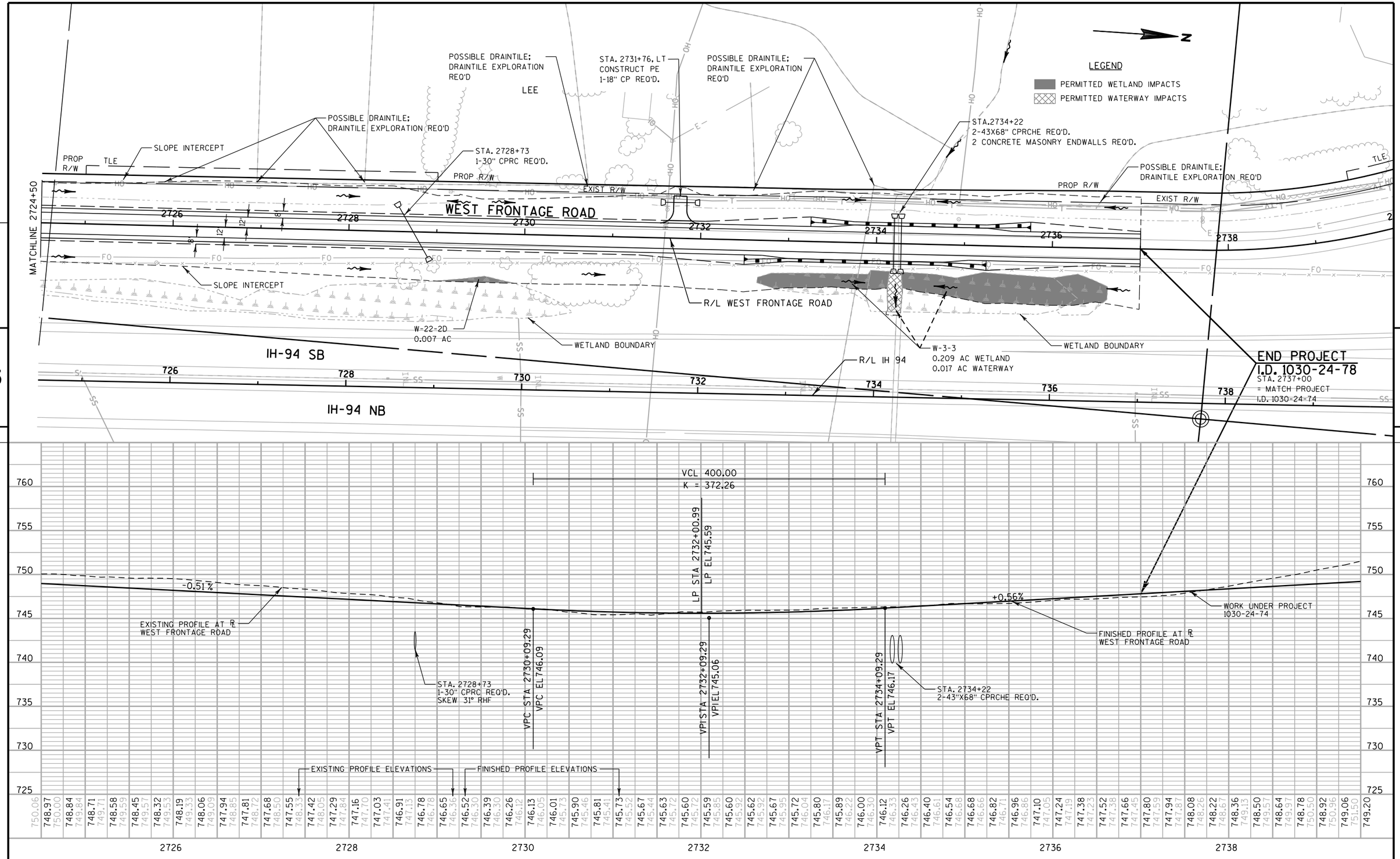
BRAUN RD
WEST FRONTAGE ROAD
IH-94 SB
IH-94 NB
GRCIC & CHRISTOFALOS
SLOPE INTERCEPT
EXIST R/W
PROP R/W
WETLAND BOUNDARY
W-13 0.010 AC
W-13 0.055 AC
W-22-2C 0.007 AC
W-13 0.163 AC
TYPE "D" INTERSECTION
BM 71187
BM 71058
CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
R/L WEST FRONTAGE ROAD
R/L IH 94
R/L BRAUN ROAD
MATCHLINE 4709+50
MATCHLINE 2724+50

VCL 400.00
K = 153.43
VPC STA 4709+90.70
VPC EL 748.99
BACK 4711+25.94
AHEAD 2711+35.24
VPI STA 2712+00.00
VPI EL 745.53
LP STA 2712+65.45
LP EL 746.69
VPT STA 2714+00.00
VPT EL 747.28
VPC STA 2716+59.29
VPC EL 749.56
+0.88 %
K = 359.23
VCL 500.00
VPI STA 2719+09.29
VPI EL 751.75
HP STA 2719+74.31
HP EL 750.94
FINISHED PROFILE AT ℄ WEST FRONTAGE ROAD
VPT STA 2721+59.29
VPT EL 750.46
-0.51 %
EXISTING PROFILE AT ℄ WEST FRONTAGE ROAD

	4710	2712	2714	2716	2718	2720	2722	2724
EXISTING PROFILE ELEVATIONS	748.68	749.69	749.26	748.83	748.44	748.08	747.76	747.49
	747.59	747.63	747.54	747.25	747.13	747.67	746.96	747.74
	746.83	747.84	746.75	747.96	746.70	748.15	746.70	748.32
	746.73	748.74	746.81	749.00	746.93	749.17	747.08	749.37
FINISHED PROFILE ELEVATIONS	747.28	749.48	747.50	749.50	747.72	749.60	747.94	749.67
	748.16	749.72	748.38	749.79	748.60	749.91	748.82	750.08
	749.04	750.23	749.26	750.29	749.48	750.36	749.69	750.38
	749.89	750.42	750.07	750.42	750.24	750.38	750.39	750.41
	750.52	750.41	750.63	750.39	750.72	750.41	750.80	750.49
	750.86	750.48	750.91	750.45	750.93	750.38	750.94	750.38
	750.93	750.39	750.90	750.31	750.86	750.30	750.80	750.38
	750.72	750.44	750.62	750.50	750.51	750.46	750.38	750.37
	750.25	750.27	750.12	750.27	750.00	750.19	749.87	750.20
	749.74	750.23	749.61	750.25	749.48	750.24	749.35	750.19
	749.22	750.16	749.09	750.06	748.97			

PROJECT NO: 1030-24-78	HWY: IH 94	COUNTY: RACINE	PLAN & PROFILE: WEST FRONTAGE ROAD	SHEET 89	E

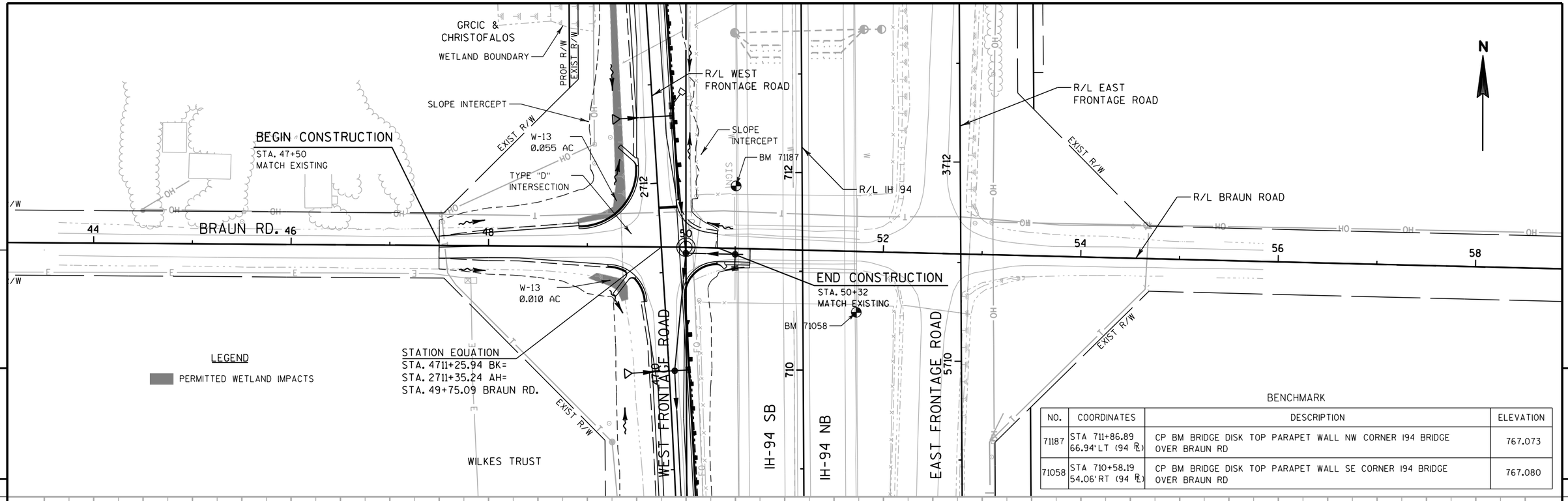
FILE NAME : Z:\Racine\CADDS\12\12W\CDS\050103_PP.dgn | PLOT DATE : 9/18/2017 | PLOT BY : cory.ihde | PLOT NAME : $FILE$ | PLOT SCALE : 1:100



PROJECT NO: 1030-24-78	HWY: IH 94	COUNTY: RACINE	PLAN & PROFILE: WEST FRONTAGE ROAD	SHEET 90 E

FILE NAME : Z:\Racine\CADDS\12\12W\CDS\050104_PP.dgn PLOT DATE : 7/27/2017 PLOT BY : cory.ihde PLOT NAME : $FILE$ PLOT SCALE : 1:100

WISDOT/CADDS SHEET 40



BENCHMARK

NO.	COORDINATES	DESCRIPTION	ELEVATION
71187	STA 711+86.89 66.94'LT (94 ℄)	CP BM BRIDGE DISK TOP PARAPET WALL NW CORNER I94 BRIDGE OVER BRAUN RD	767.073
71058	STA 710+58.19 54.06'RT (94 ℄)	CP BM BRIDGE DISK TOP PARAPET WALL SE CORNER I94 BRIDGE OVER BRAUN RD	767.080

| EXISTING PROFILE ELEVATIONS | | |

LEGEND

PERMITTED WETLAND IMPACTS

NAVIGABLE WATERWAY UT-18
TO KILBOURN ROAD DITCH

WETLAND BOUNDARY

W-22-2
NO IMPACT

BEGIN CONSTRUCTION
STA. 100+22.50
MATCH EXISTING

R/L PRIVATE DRIVEWAY "W"

SLOPE INTERCEPT

WILKES TRUST

R/L WEST FRONTAGE ROAD

WETLAND
BOUNDARY

W-22-2A
0.079 AC

4695+50, LT
CONSTRUCT PE
1-15" CP REQ'D
1-18" CP REQ'D

EXISTING BOX
CULVERT C-51-12

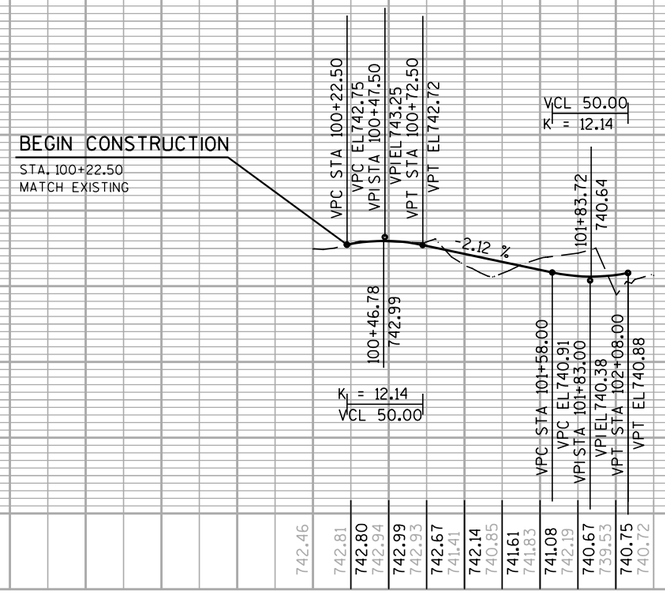
R/L IH 94

SLOPE INTERCEPT

R/L EAST
FRONTAGE ROAD

RIPRAP

N



PROJECT NO: 1030-24-78	HWY: IH 94	COUNTY: RACINE	PLAN & PROFILE: PRIVATE DRIVEWAY "W"	SHEET 92	E

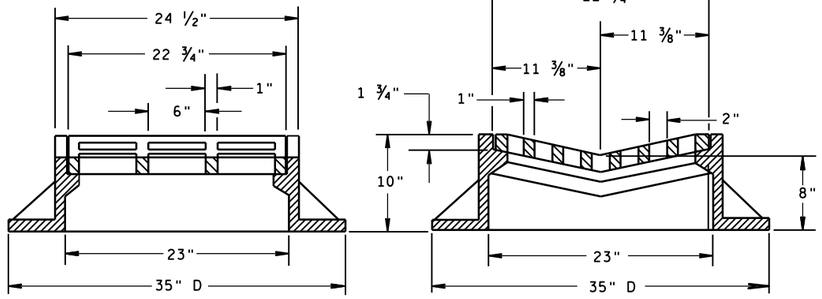
FILE NAME : Z:\Racine\CADDS\12\12W\CDS\050106_PP.dgn PLOT DATE : 7/27/2017 PLOT BY : cory.ihde PLOT NAME : $FILE$ PLOT SCALE : 1:100

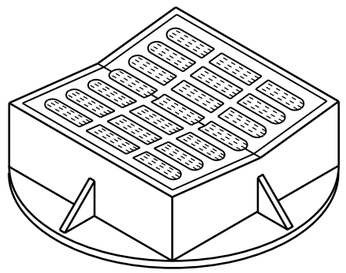
WISDOT/CADDS SHEET 40

Standard Detail Drawing List

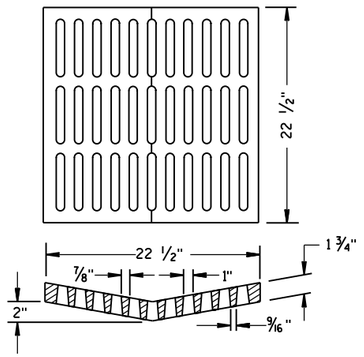
08A05-19B	INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM
08A05-19C	INLET COVERS TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S
08A05-19D	INLET COVER TYPE BW, MANHOLE COVERS, TYPE K, J, J-S, L & M
08B09-02	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER
08B11-02	MANHOLES VARIABLE TEE AND SPECIAL 4-FT DIAMETER
08C07-02	INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT
08C08-02	INLETS MEDIAN 1 AND 2 GRATE
08D01-19	CONCRETE CURB, CONCRETE CURB AND GUTTER AND TIES
08D04-05	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08E14-01	TRACKING PAD
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F02-01	APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
08F07-05	STEEL APRON ENDWALLS FOR CULVERT PIPE AND PIPE ARCH SLOPED SIDE FRAINS
08F10-01	CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH
09A01-13A	AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND D AND TEE INTERSECTION BYPASS LANE
14B28-03	GUARDRAIL MOW STRIP
14B42-04A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-04B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-04C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B43-03A	MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L)
14B43-03B	MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L)
14B43-03C	MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L)
14B44-02A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-02B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-02C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15B01-08A	FENCE WOVEN WIRE
15B01-08B	FENCE WOVEN WIRE
15C02-06A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C03-03	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C04-03	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C08-17A	LONGITUDINAL MARKING (MAINLINE)
15C08-17B	PAVEMENT MARKING (TURN LANES)
15C12-04	TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
15C12-05	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15D27-03	TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH
15D29-04	TRAFFIC CONTROL, VEHICLE ENTRANCE/EXIT OR HAUL ROAD
15D38-01A	TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS
15D38-01B	ATTACHMENT OF SIGNS TO POSTS

6



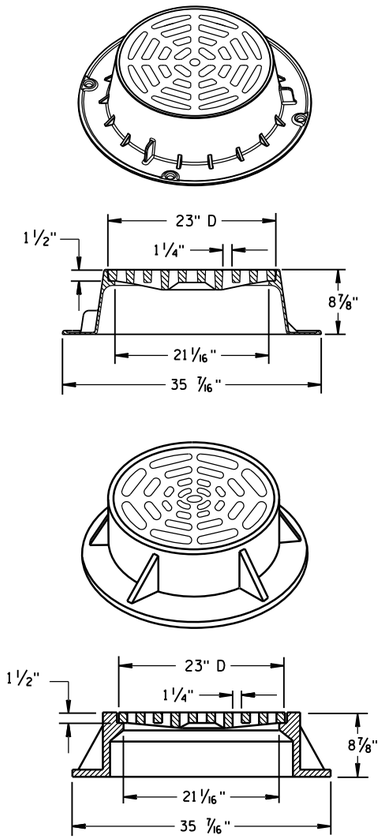


TYPE "B"



ALTERNATIVE GRATE FOR TYPE "B" COVER

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS POSSIBLE.
NOTED AS TYPE B-A ON THE DRAINAGE TABLE



TYPE "C"

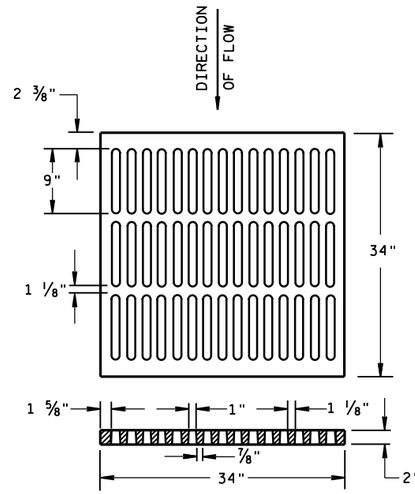
NOTE: EITHER CASTING IS ACCEPTABLE

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

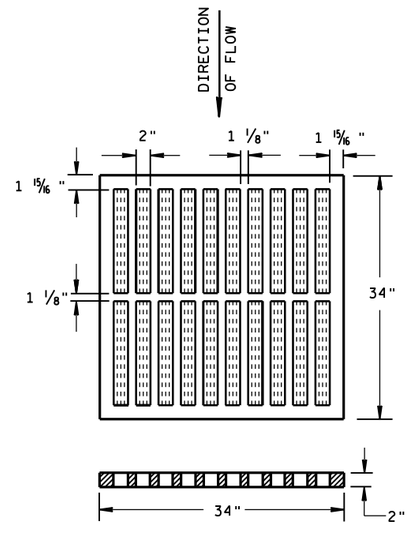
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.



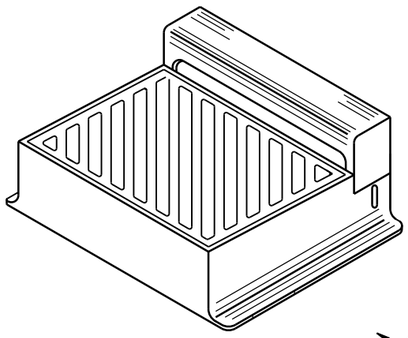
ALTERNATIVE TYPE "MS"

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS PERMITTED
NOTED AS TYPE MS-A ON THE DRAINAGE TABLE

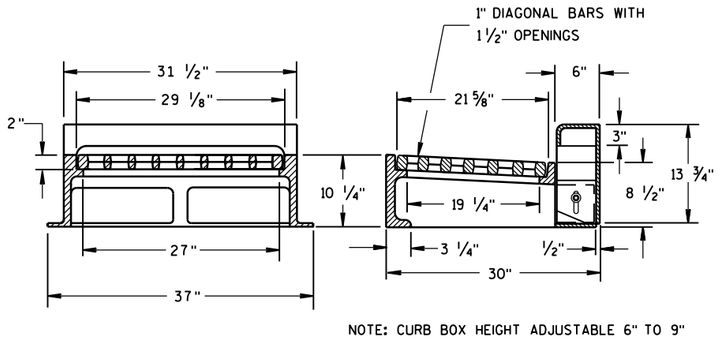


TYPE "MS"

USE ON FREEWAYS AND EXPRESSWAYS
NOTED AS TYPE MS ON DRAINAGE TABLE



DIAGONAL SLOTS, SHALL BE ORIENTED TO THE DIRECTION OF FLOW AS ILLUSTRATED. GRATES ARE MANUFACTURED TO BE REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

TYPE "WM"

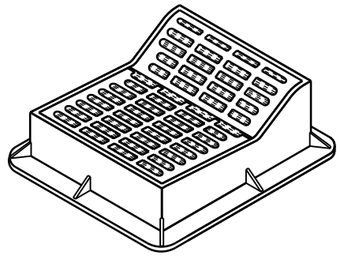
INLET COVERS
TYPE B, B-A, C,
MS, MS-A, & WM

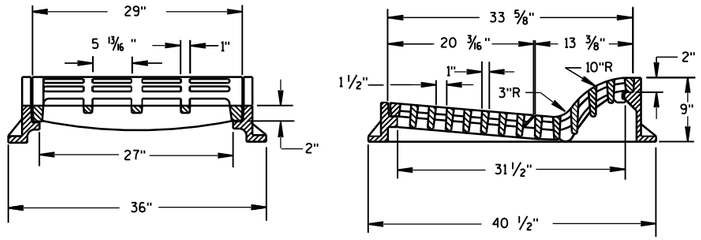
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

6

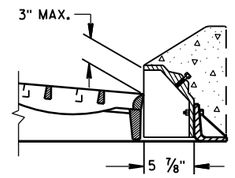
S.D.D. 8 A 5-19b





TYPE "F"

USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.



ALTERNATIVE CURB BOX FOR TYPE "HM" COVER

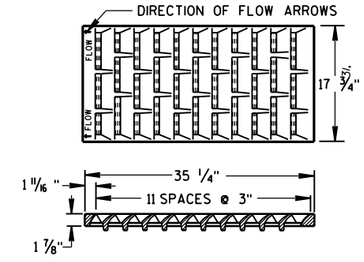
USE WITH TYPES G & J CONCRETE CURB & GUTTER, 30 INCH
NOTED AS TYPE HM-GJ ON DRAINAGE TABLE

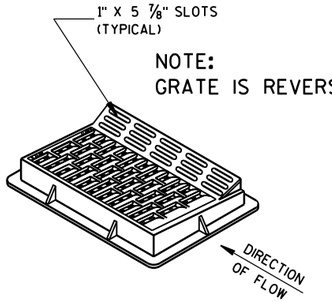
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM-GJ" COVER
NOTED AS TYPE HM-GJ-S ON DRAINAGE TABLE

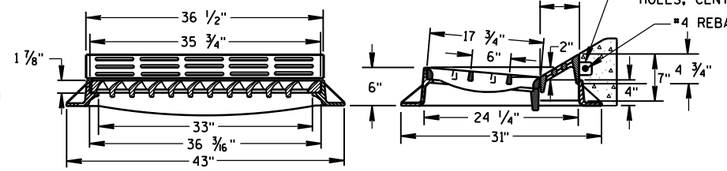
GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.



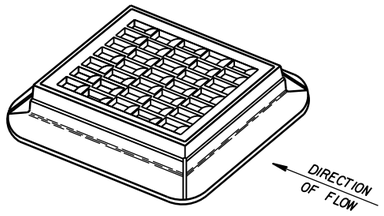


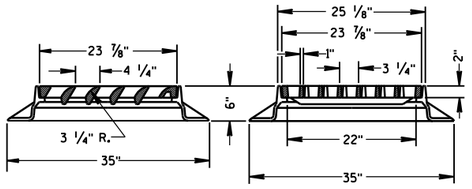


TYPE "HM"

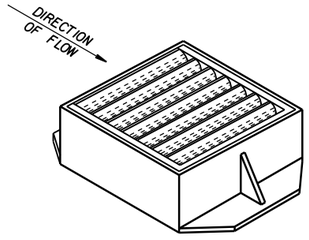
USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.

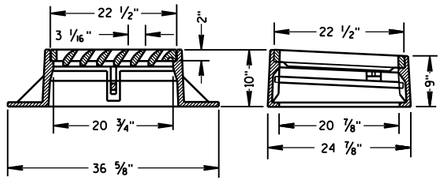
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM" COVER
NOTED AS TYPE HM-S ON DRAINAGE TABLE



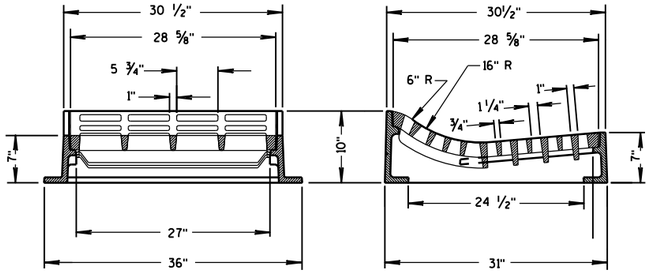


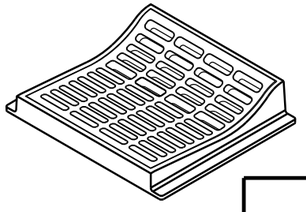
TYPE "S"





TYPE "V"





TYPE "T"

USE WITH TYPES R & T CONCRETE CURB & GUTTER, 36 INCH.

INLET COVERS TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

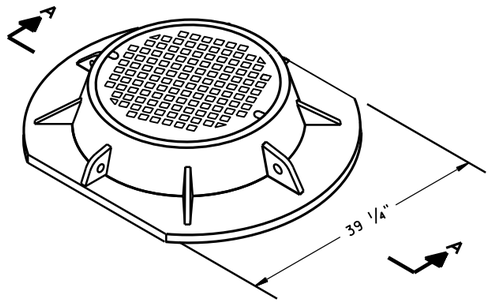
FHWA

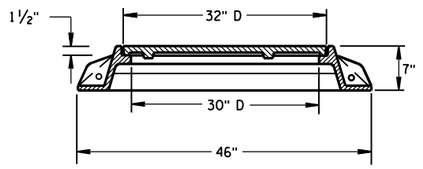
6

S.D.D. 8 A 5-19c

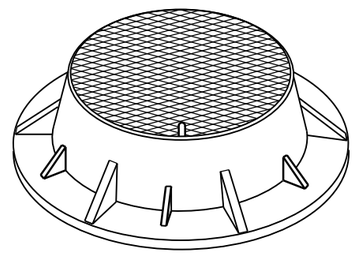
6

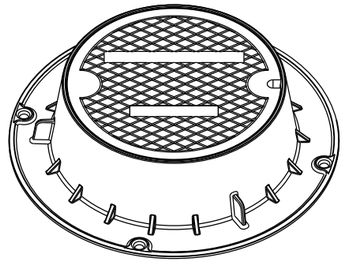
S.D.D. 8 A 5-19c

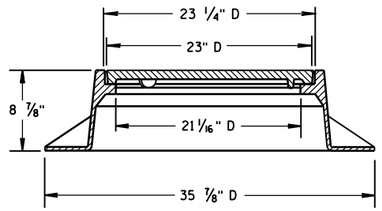


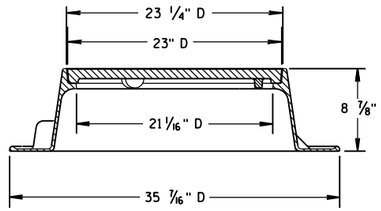


SECTION A-A
TYPE "K"









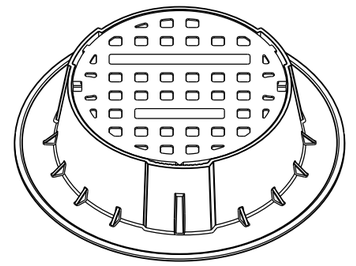
TYPE "J"
NOTE: EITHER CASTING IS ACCEPTABLE

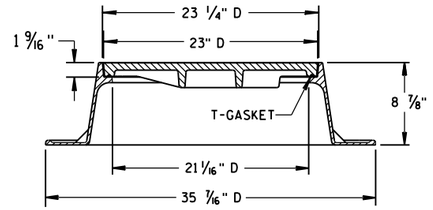
GENERAL NOTES

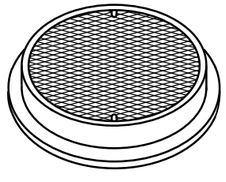
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

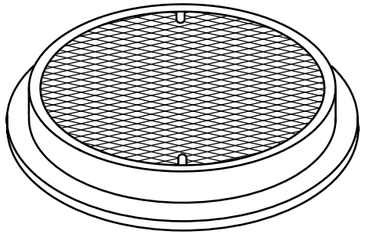
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR MANHOLE COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

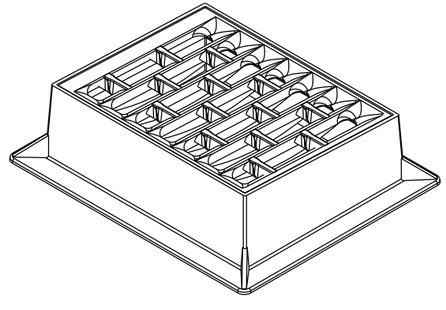
ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

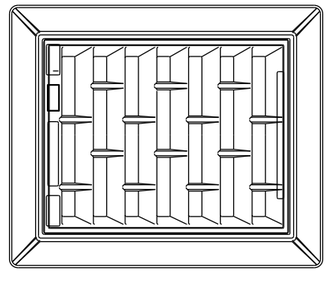


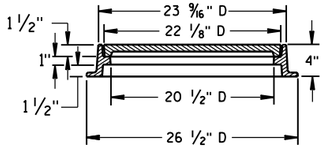












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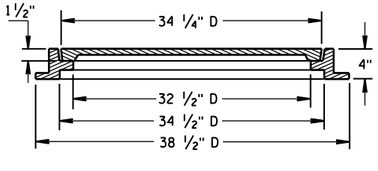

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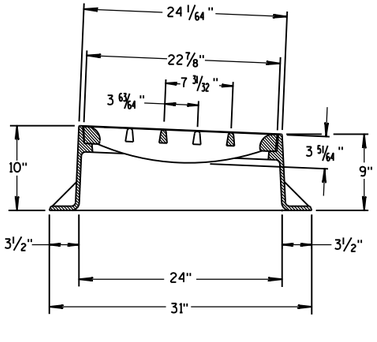
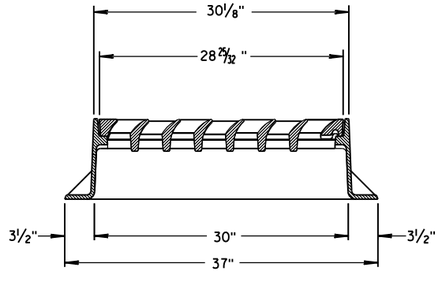
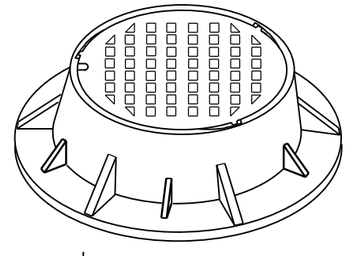
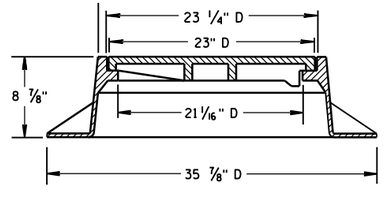




INLET COVER TYPE "BW"





TYPE "J" SPECIAL
TYPE "B" NON-ROCKING SELF-SEAL LID
(NOTED AS TYPE J-S ON THE DRAINAGE TABLE)
NOTE: EITHER CASTING IS ACCEPTABLE

INLET COVER TYPE BW
MANHOLE COVERS, TYPE K, J, J-S, L & M

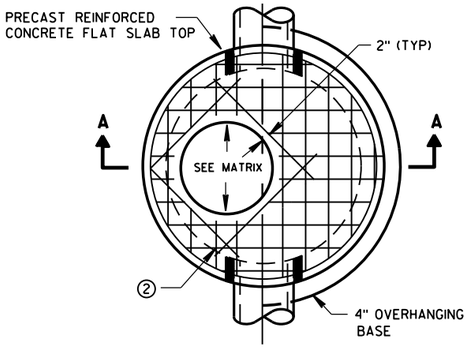
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013
DATE
FHWA

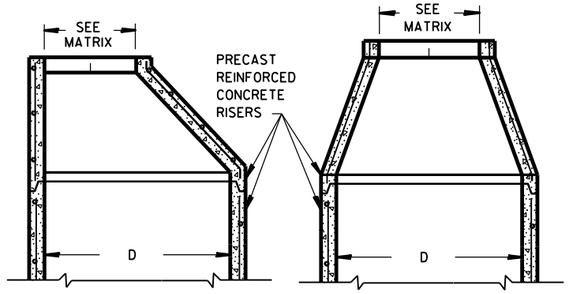
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

6

S.D.D. 8 A 5-19d

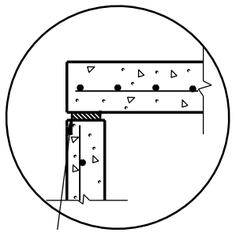


PLAN VIEW CIRCULAR OPENING

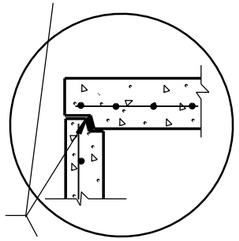


OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

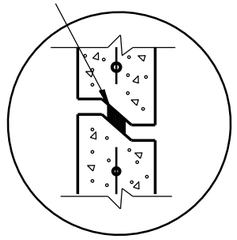


TOP WITH PLAIN END JOINT



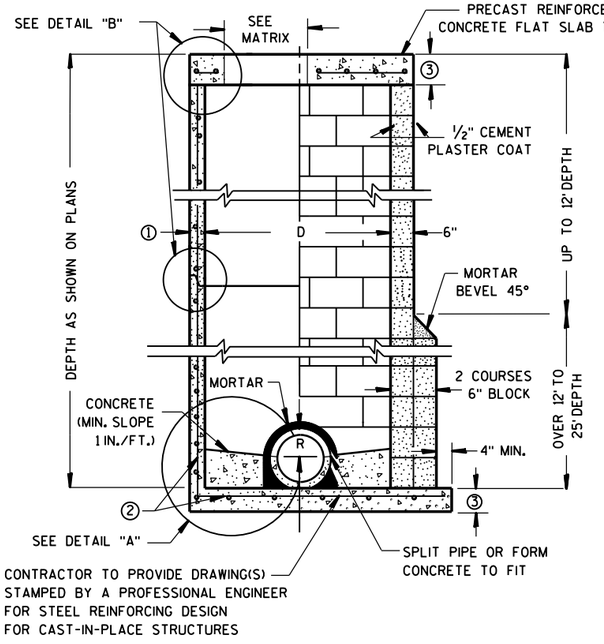
JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C990 (TYP)

TOP WITH TONGUE AND GROOVE JOINT



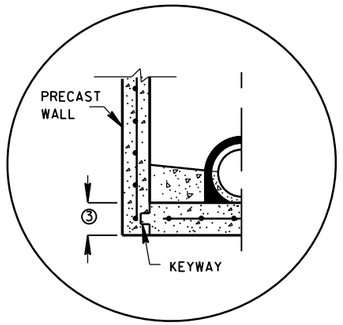
RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"

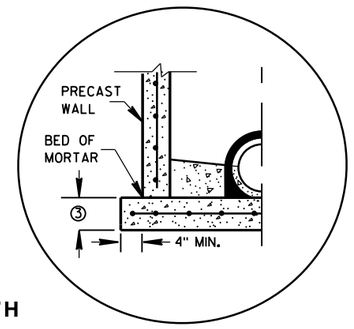


PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

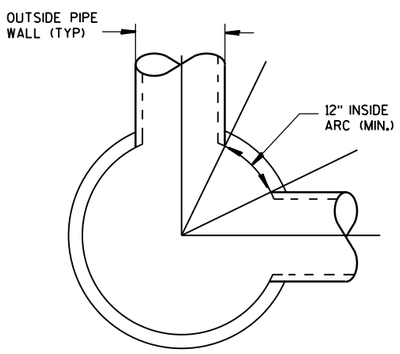


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "C"

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST MANHOLE UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES, AND CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 5 FEET OR LESS IN DEPTH, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

STEPS MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF ½" AND MEET THE REQUIREMENTS OF ASTM A615.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

CONCRETE BLOCK WILL NOT BE PERMITED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

ALL PRECAST MANHOLE UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT, 5 INCHES FOR 4-FT, 6 INCHES FOR 5-FT, 7 INCHES FOR 6-FT, 8 INCHES FOR 7-FT AND 9 INCHES FOR 8-FT DIAMETER PRECAST MANHOLES.

② FOR PRECAST MANHOLES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

③ PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER OF 48" AND LESS SHALL HAVE A MINIMUM THICKNESS OF 6". PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER LARGER THAN 48" SHALL HAVE A MINIMUM THICKNESS OF 8".

MANHOLE COVER OPENING MATRIX

MANHOLE COVER TYPE	C	ALL J'S	K	L	M
OPENING SIZE (FT)					
2 DIA.	X	X		X	
3 DIA.			X		X

PIPE MATRIX

MANHOLE SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18
5-FT	36	24
6-FT	42	36
7-FT	48	36
8-FT	60	42

MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

Sept., 2016
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT
UNIT SUPERV 97

FHWA

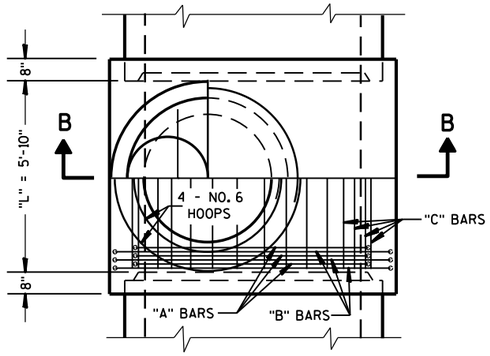
MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER

6

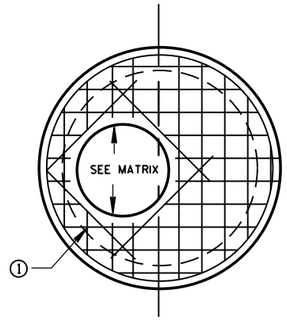
S.D.D. 8 B 9-2

6

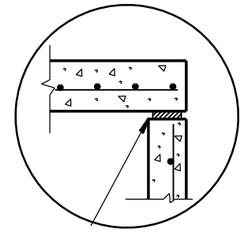
S.D.D. 8 B 9-2



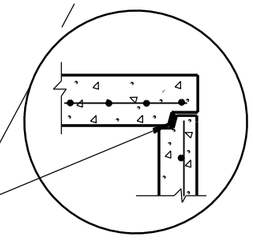
HALF SECTION A-A



PLAN VIEW PRECAST REINFORCED CONCRETE FLAT SLAB TOP WITH ECCENTRIC OPENING

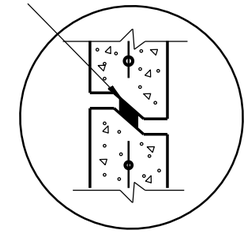


TOP WITH PLAIN END JOINT



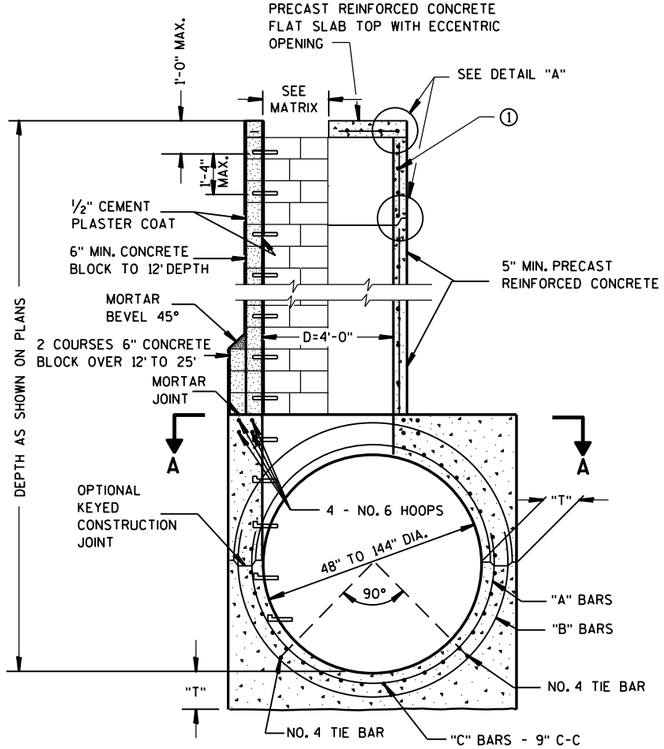
TOP WITH TONGUE AND GROOVE JOINT

JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C990 (TYP)



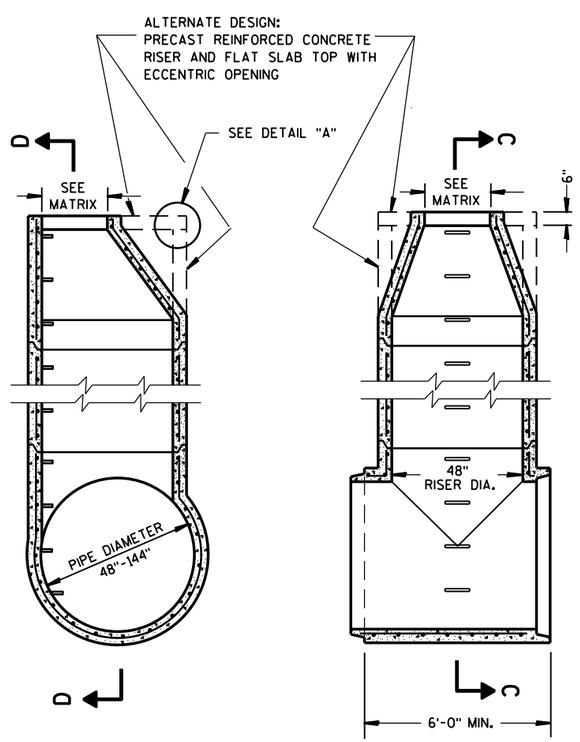
RISER WITH TONGUE AND GROOVE JOINT

DETAIL "A"



SECTION B-B

MANHOLE VARIABLE SPECIAL 4-FT DIAMETER



SECTION C-C SECTION D-D

MANHOLE VARIABLE TEE 4-FT DIAMETER

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST MANHOLE UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 4T-L", "MANHOLES 4S-M", ETC. THE VARIABLE TEE IS DENOTED BY 4T AND THE VARIABLE SPECIAL IS DENOTED BY 4S. THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

STEPS MEETING THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF 1/2 INCH AND MEET THE REQUIREMENTS OF ASTM A615.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

PRECAST REINFORCED CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED FLAT SLAB TOPS MAY BE USED ON CONCRETE OR CONCRETE BLOCK STRUCTURES. THE TOPS SHALL BE INSTALLED ON A BED OF MORTAR.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES, AND CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 5 FEET OR LESS IN DEPTH, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

ALL PRECAST MANHOLES SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199.

(1) FOR PRECAST MANHOLES PROVIDE REINFORCING STEEL IN ACCORDANCE WITH AASHTO M 199.

MANHOLE COVER OPENING MATRIX

MANHOLE COVER TYPE	C	ALL J'S	K	L	M
OPENING SIZE (FT)					
2 DIA.	X	X		X	
3 DIA.			X		X

NOTES FOR MANHOLE VARIABLE SPECIAL 4-FT DIAMETER

NOTE: ALL "A", "B", AND "C" BAR STEEL REINFORCING IS THE SAME DIAMETER WHICH VARIES WITH DEPTH.
NO. 5 BARS TO 20' DEPTH
NO. 6 BARS OVER 20' TO 30' DEPTH
NO. 7 BARS OVER 30' TO 40' DEPTH

THE "A" AND "B" BARS MAY BE PLACED IN ONE OR TWO SEGMENTS, AND SHALL LAP 24 BAR DIAMETERS.

"C" BARS SHALL HAVE STANDARD HOOKED ENDS.

NOTE: "T" THROUGHOUT LENGTH "L" SHALL BE 13" FOR PIPE DIAMETER 48" TO 84" AND 15" FOR PIPE DIAMETER GREATER THAN 84".

MANHOLE VARIABLE TEE AND SPECIAL 4-FT DIAMETER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2016 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS UNIT SUPERVISOR
FHWA

6

S.D.D. 8 B 11-2

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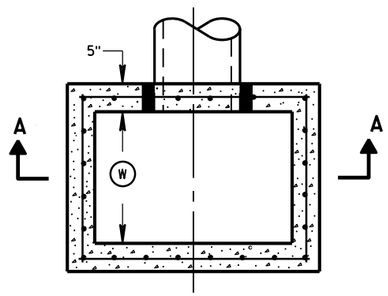
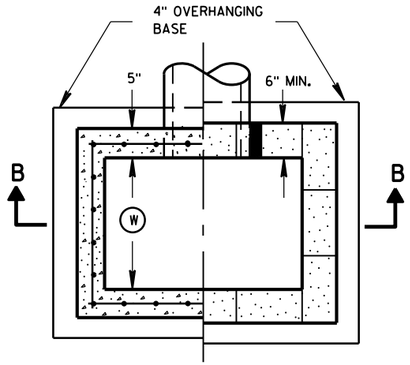
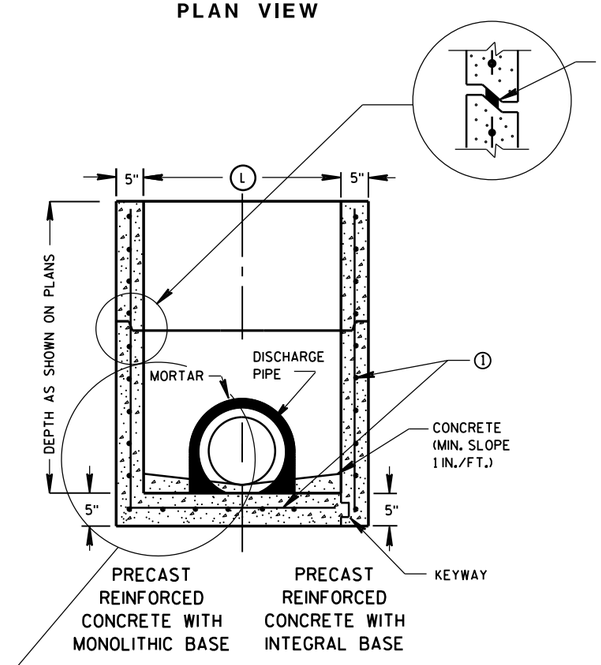
S.D.D. 8 B 11-2



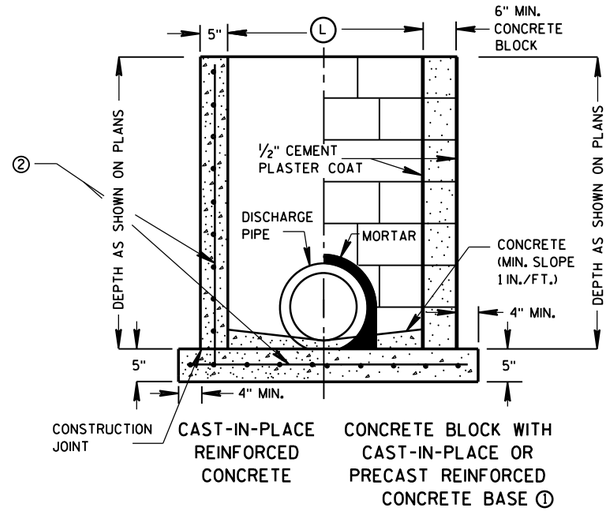
PLAN VIEW



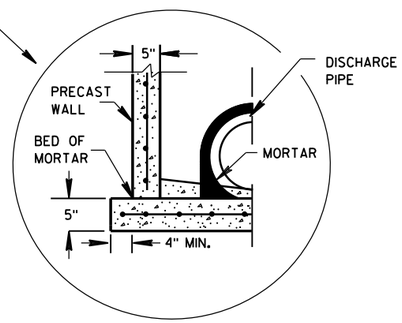
PLAN VIEW



SECTION A-A



SECTION B-B



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATES THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANGING BASES ARE REQUIRED FOR CAST-IN-PLACE REINFORCED CONCRETE AND CONCRETE BLOCK INSTALLATIONS.
4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED.
OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3 INCH CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

① FOR PRECAST INLETS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

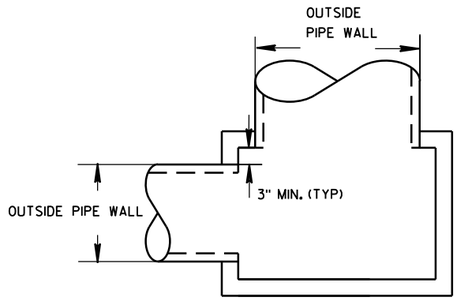
② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

INLET COVER MATRIX

INLET SIZE		INLET COVER TYPE	ALL A'S	ALL B'S	BW	F	ALL H'S	S	T	V	WM
	WIDTH (W) (FT)	LENGTH (L) (FT)									
2X2-FT	2	2	X	X				X		X	
2X2.5-FT	2	2.5			X			X	X	X	X
2X3-FT	2	3					X				
2.5X3-FT	2.5	3				X					

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER	
	WIDTH (IN)	LENGTH (IN)
2X2-FT	12	12
2X2.5-FT	12	18
2X3-FT	12	24
2.5X3-FT	18	24



DETAIL "A"

INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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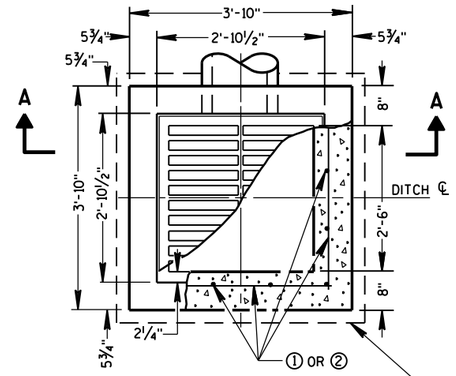
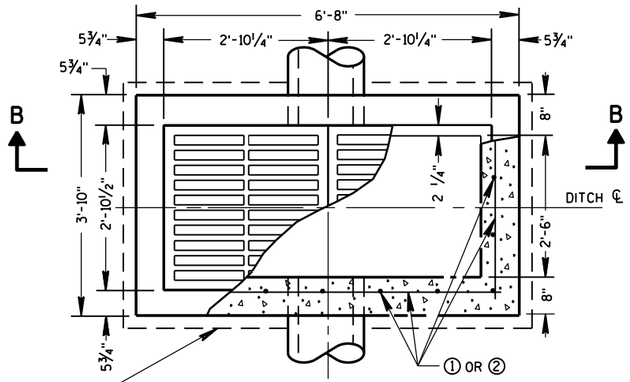
ROADWAY STANDARDS D IT UNIT SUPERVIS
FHWA

INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

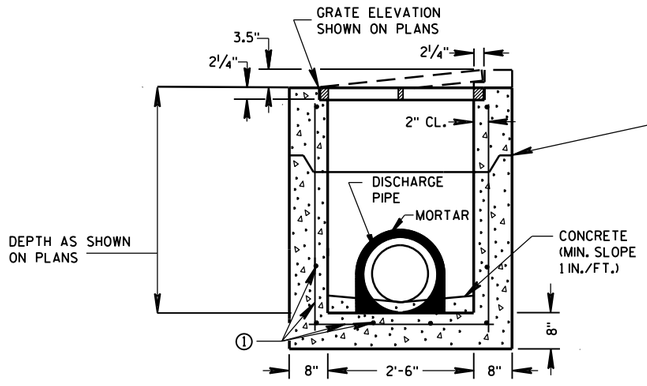


PLAN VIEW

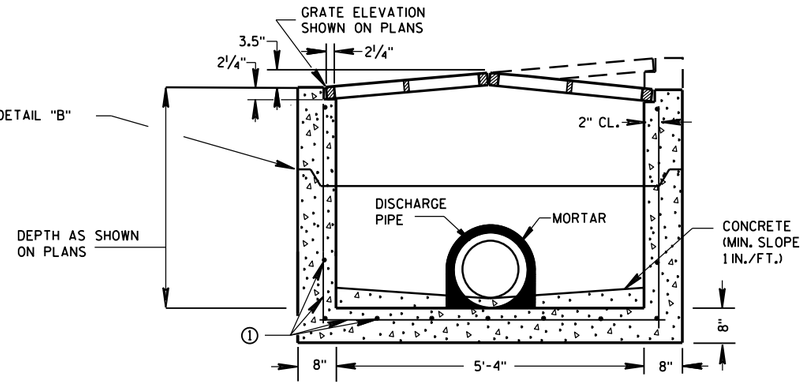


PLAN VIEW

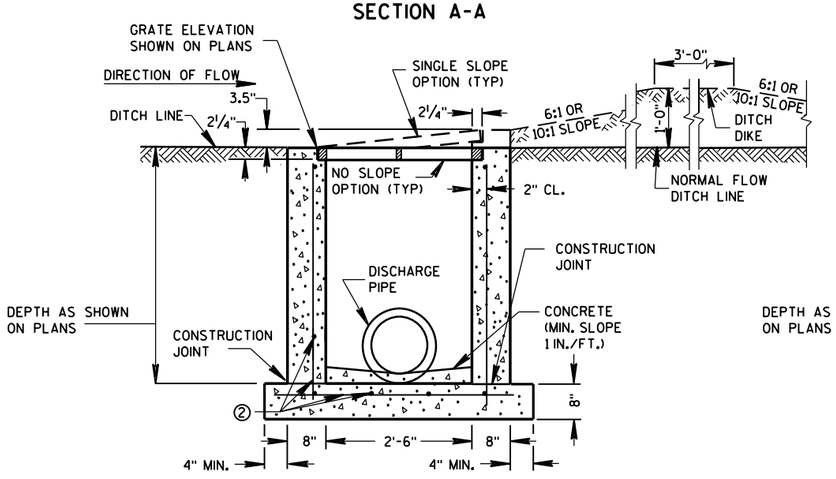
4" OVERHANGING BASE ON REINFORCED CAST-IN-PLACE CONCRETE INLETS



PRECAST REINFORCED CONCRETE SECTION A-A

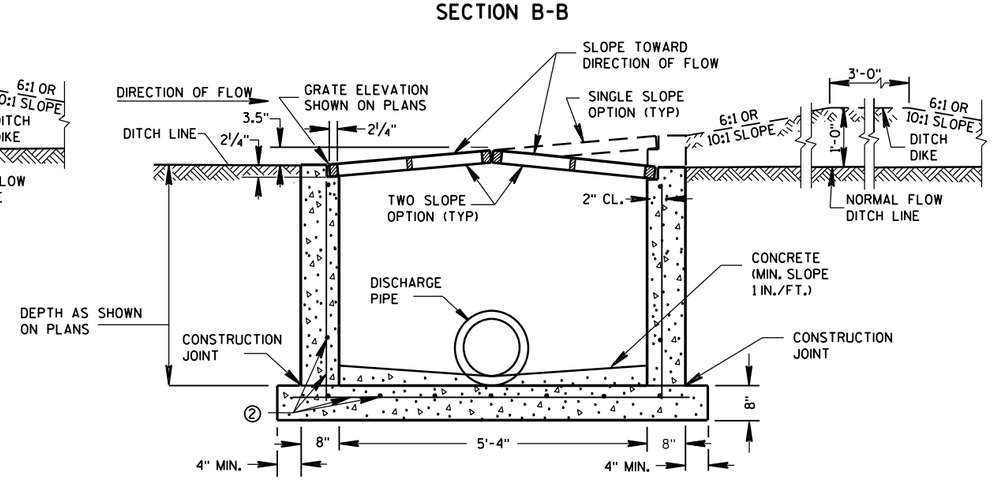


PRECAST REINFORCED CONCRETE SECTION B-B



REINFORCED CAST-IN-PLACE CONCRETE SECTION A-A

INLETS MEDIAN 1 GRATE



REINFORCED CAST-IN-PLACE CONCRETE SECTION B-B

INLETS MEDIAN 2 GRATE

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLETS WHICH MAY INCLUDE PRECAST REINFORCED CONCRETE INLETS, SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL MEDIAN INLETS ARE DESIGNATED ON THE PLANS AS "INLETS, 1G-MS", ETC. THE FIRST NUMBER AND LETTER DESIGNATE THE TYPE OF STRUCTURE, AND THE FOLLOWING LETTERS DESIGNATE THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

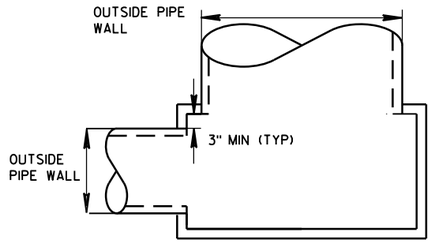
MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3" CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

① FOR PRECAST INLETS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

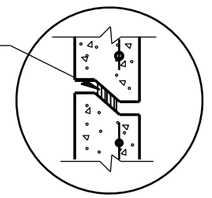
PIPE MATRIX

	MAXIMUM INSIDE PIPE DIAMETER	
INLET SIZE	WIDTH (IN)	LENGTH (IN)
1 GRATE	18	18
2 GRATE	18	42



DETAIL "A"

JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 (TYP)



DETAIL "B"

INLETS MEDIAN 1 AND 2 GRATE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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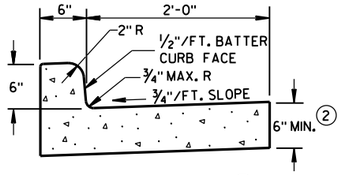
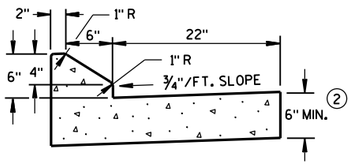
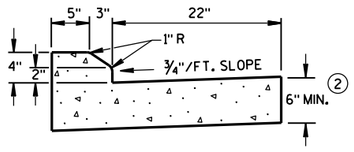


TYPES A & D ①

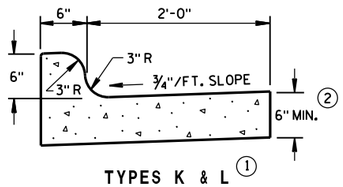


6" SLOPED CURB TYPES G & J ①

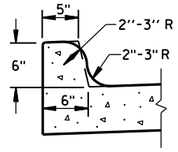


4" SLOPED CURB TYPES G & J ①

CONCRETE CURB & GUTTER 30"

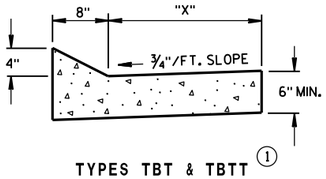


TYPES K & L ①



OPTIONAL CURB SHAPE FOR TYPES K & L ①

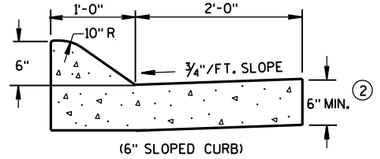
CONCRETE CURB & GUTTER 30"



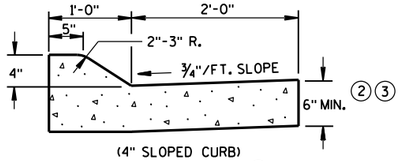
TYPES TBT & TBTT ①

CONCRETE CURB & GUTTER

TBT & TBTT	"X"
30"	22"
36"	28"

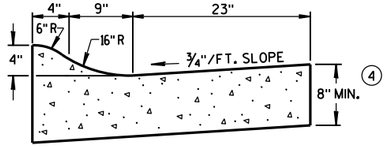


(6" SLOPED CURB)



(4" SLOPED CURB)

TYPES A & D ①



4" SLOPED CURB TYPES R & T ①⑤

CONCRETE CURB & GUTTER 36"

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

INTEGRAL CURB & GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB & GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE. A LONGITUDINAL CONSTRUCTION JOINT IS NOT REQUIRED WITH INTEGRAL CURB AND GUTTER.

WHERE THE TRANSVERSE JOINTS IN THE PAVEMENT ARE REQUIRED TO BE SEALED, THE JOINTS IN THE INTEGRAL CURB AND GUTTER SHALL BE SEALED TO THE FACE OF CURB WITH THE SAME TYPE OF SEALANT. THE COST OF FURNISHING AND INSTALLING THIS SEALANT SHALL BE INCIDENTAL TO THE ITEM CONCRETE CURB AND GUTTER.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2'-0" BEHIND THE BACK OF CURBS.

① TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K, R AND TBTT.

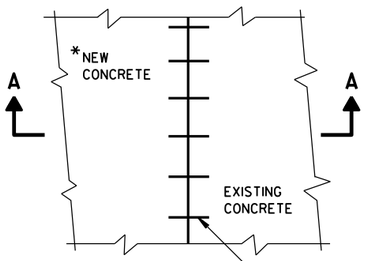
② THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

③ USE 8" MINIMUM GUTTER THICKNESS WHEN USED WITH AN ADJACENT CONCRETE TRUCK APRON PLACED BEHIND BACK OF CURB.

④ THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.

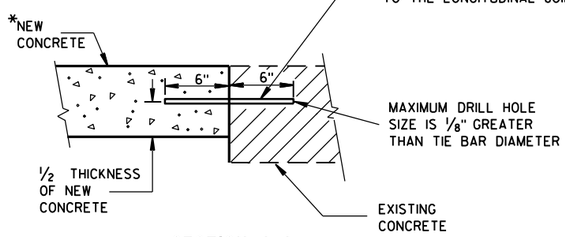
⑤ THE FACE OF CURB IS 6" FROM THE BACK OF CURB.

⑥ WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.



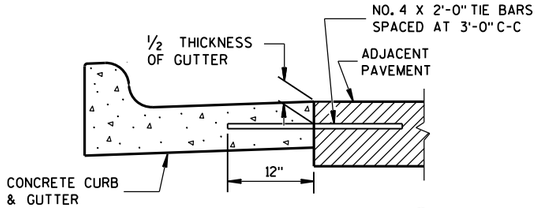
*NEW CURB & GUTTER, SURFACE DRAINS, CONCRETE PAVEMENT OR OTHER NEW CONCRETE.

PLAN VIEW

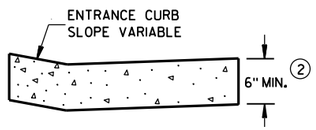


SECTION A-A

TIE BARS DRILLED INTO EXISTING PAVEMENT

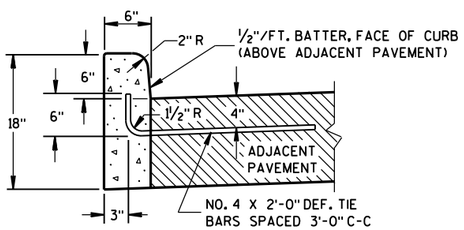


TYPICAL TIE BAR LOCATION ①

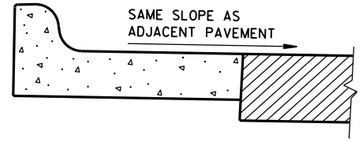


DRIVEWAY ENTRANCE CURB

(WHEN DIRECTED BY THE ENGINEER)

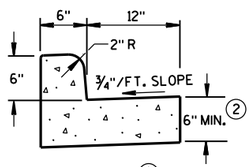


① TYPES A & D



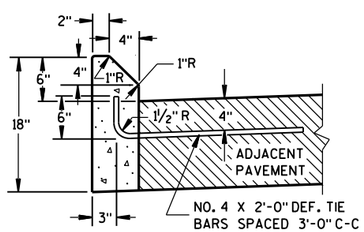
⑥ REVERSE SLOPE GUTTER

(TYPICAL FOR ALL CURB & GUTTER TYPES)



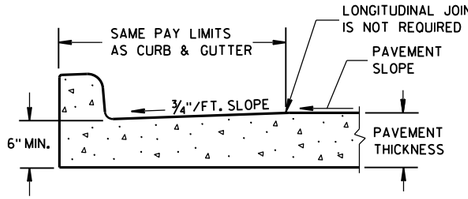
① TYPES A & D

CONCRETE CURB & GUTTER 18"

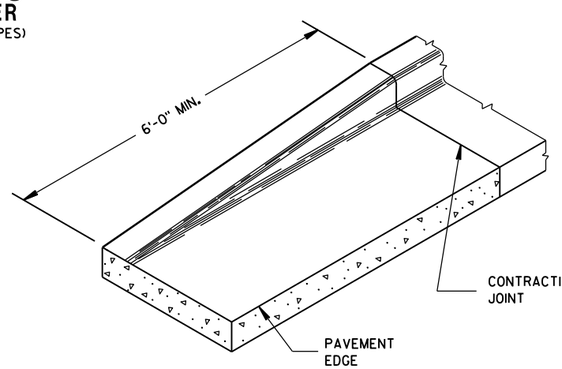


① TYPES G & J

CONCRETE CURB



PARTIAL SECTION OF PAVEMENT WITH INTEGRAL CURB & GUTTER



END SECTION CURB & GUTTER

CONCRETE CURB, CONCRETE CURB & GUTTER AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June, 2016 — DATE

/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA

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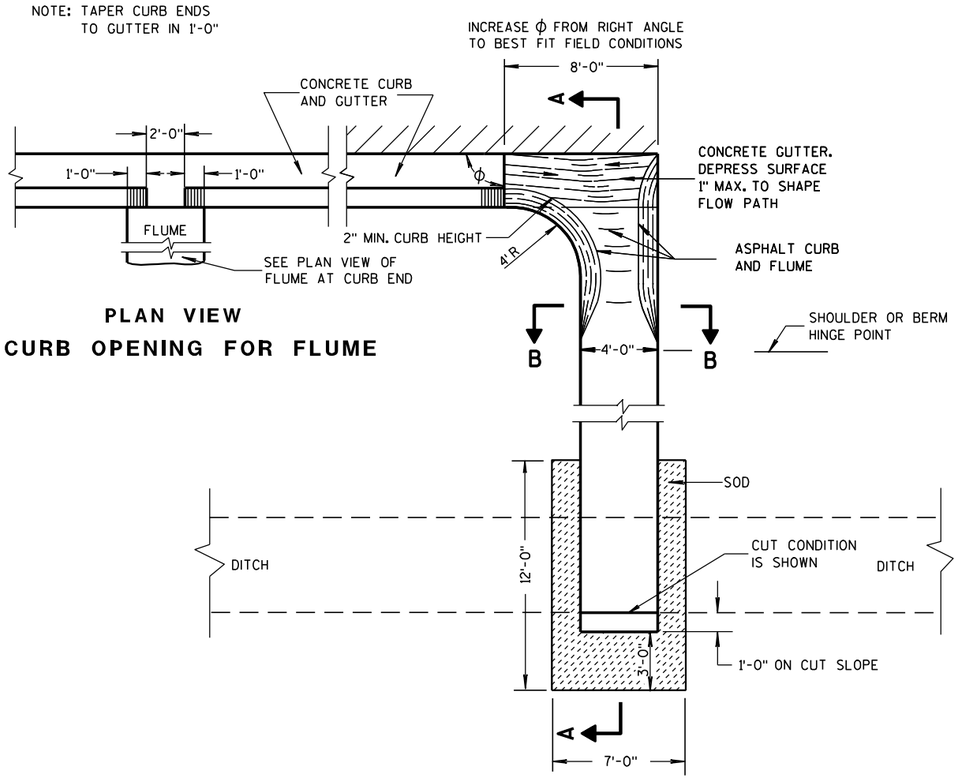
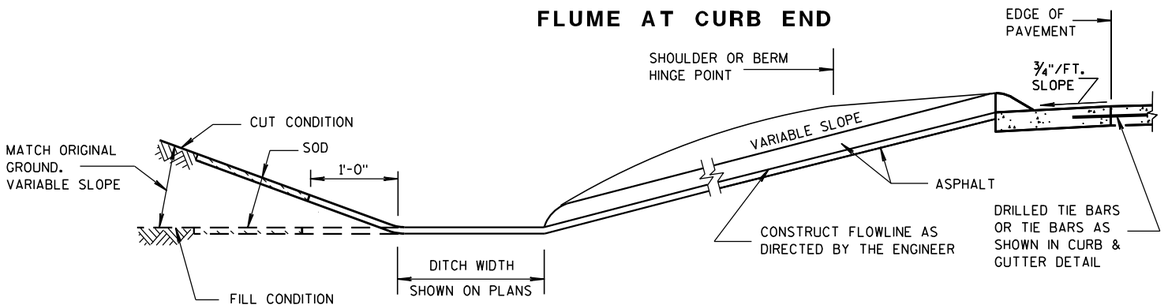
S.D.D. 8 D 1-19

ASPHALTIC FLUME

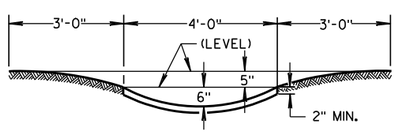


PLAN VIEW
CURB OPENING FOR FLUME

PLAN VIEW
FLUME AT CURB END



SECTION A-A



SECTION B-B

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

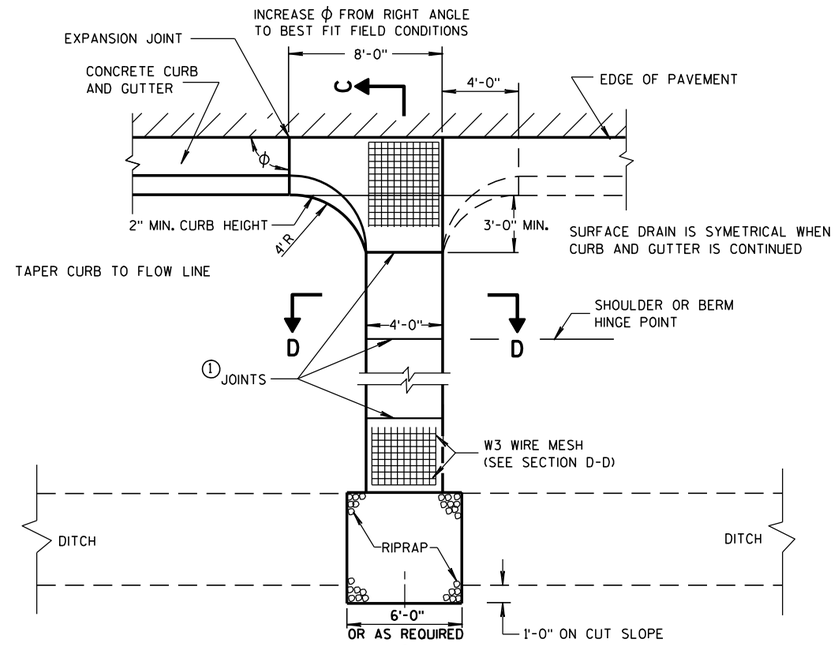
WELDED STEEL WIRE FABRIC SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

① JOINTS SHALL BE $\frac{1}{8}$ TO $\frac{1}{4}$ INCH WIDE BY $1\frac{1}{2}$ INCHES DEEP AND SPACED AT UNIFORM INTERVALS OF APPROXIMATELY 4 FEET.

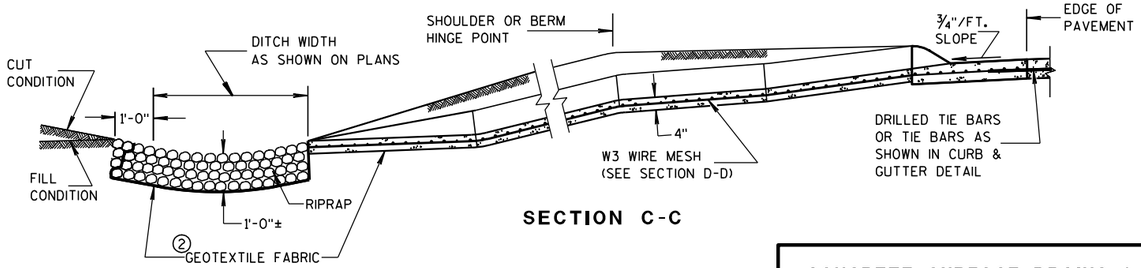
② GEOTEXTILE FABRIC TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.

③ CONCRETE SURFACE DRAIN WITHOUT CURB AND GUTTER MAY BE USED ON BACKSLOPES WHEN SPECIFIED

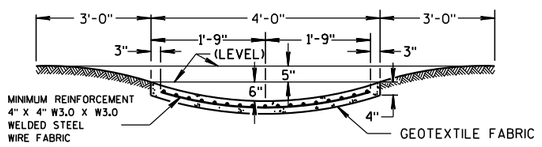
③ CONCRETE SURFACE DRAIN



PLAN VIEW



SECTION C-C



SECTION D-D

CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

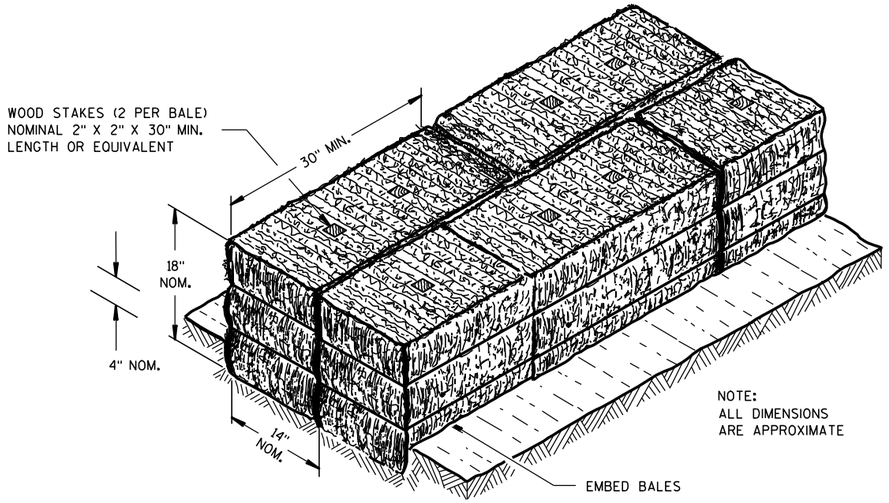
APPROVED
9-4-08 DATE
/S/ Jerry H. [illegible]
ROADWAY STANDARDS ENGINEER
MENT
FHWA

6

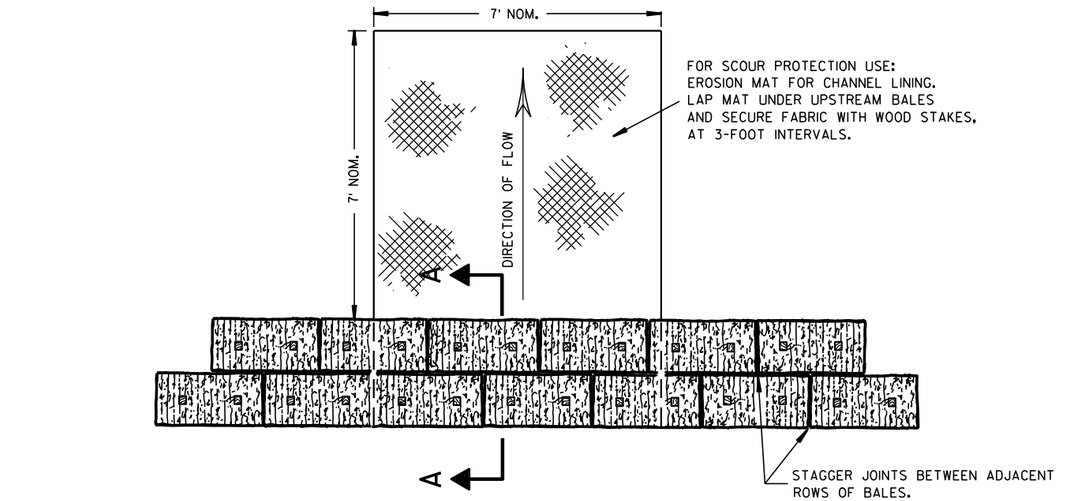
S.D.D. 8 D 4-5

6

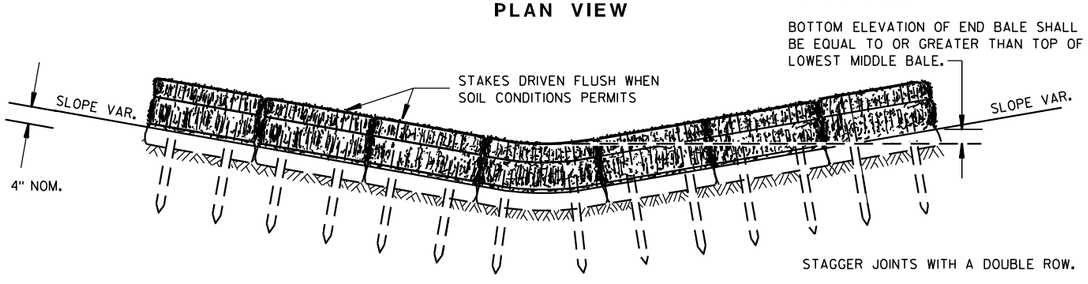
S.D.D. 8 D 4-5



SECTION A-A



PLAN VIEW



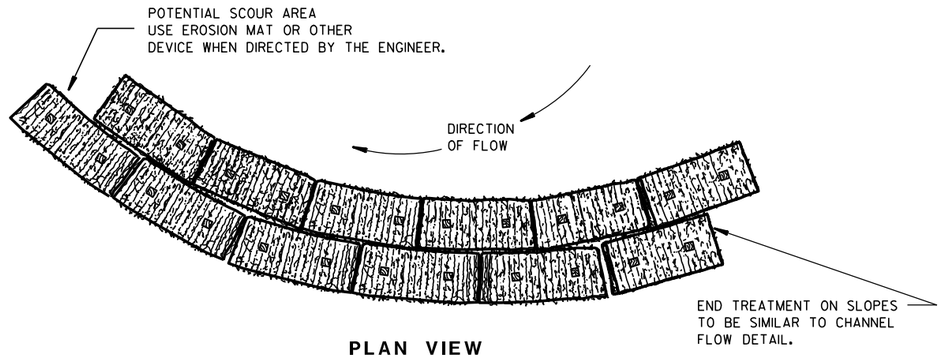
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES (1)

GENERAL NOTES

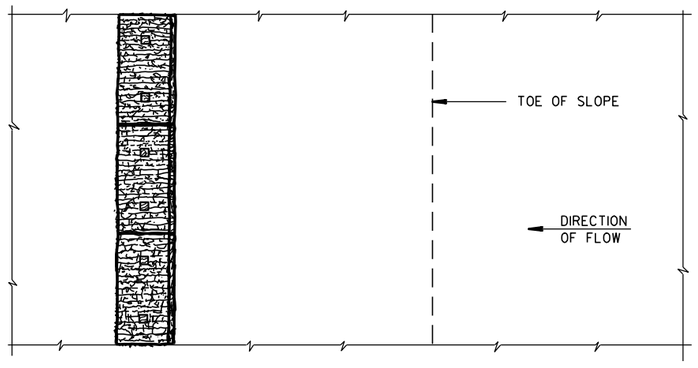
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(1) TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.

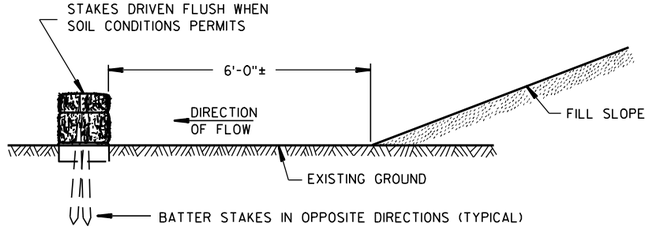


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

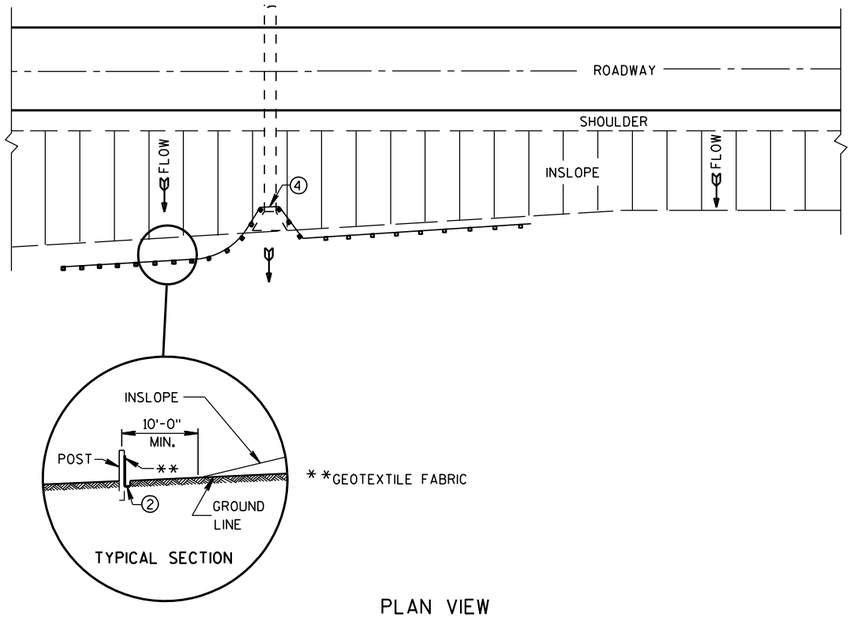
WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

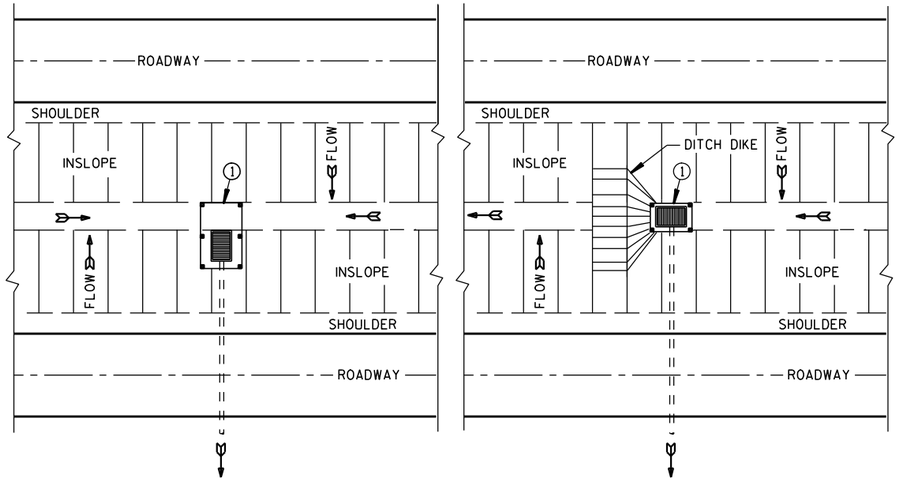
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/04/02 — DATE
/S/ Beth Cannestra — CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



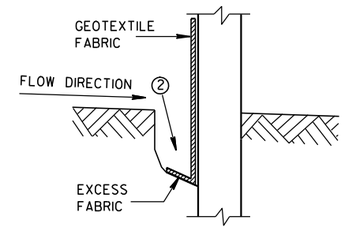
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

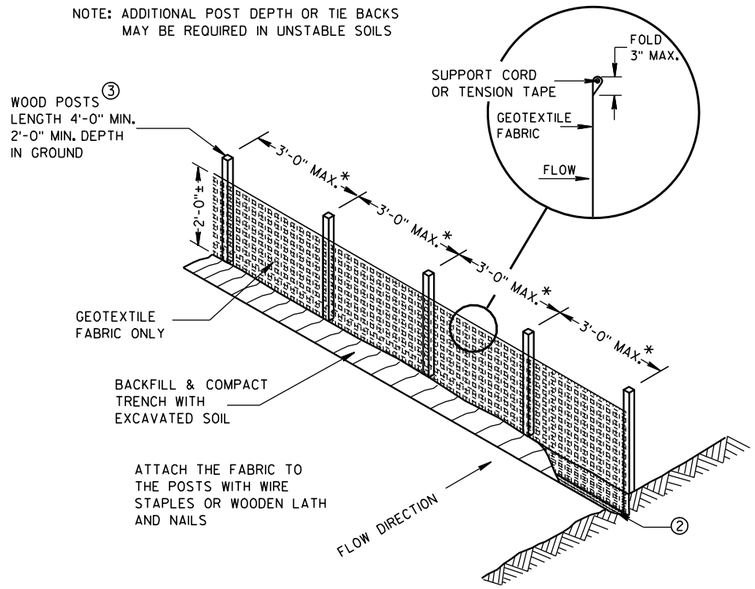
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

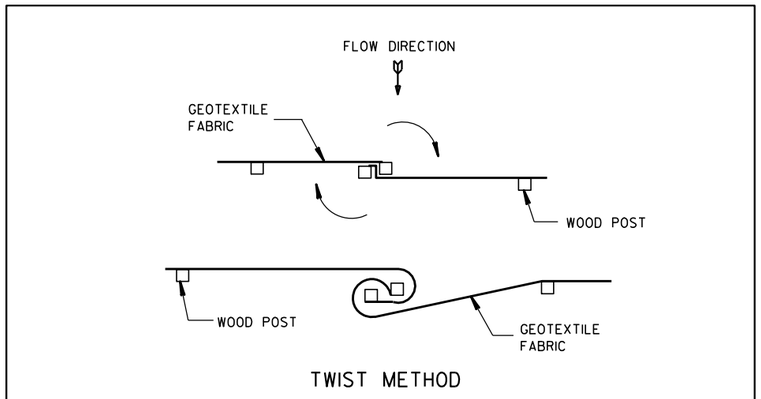
1. HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
2. FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.
4. SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
5. CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



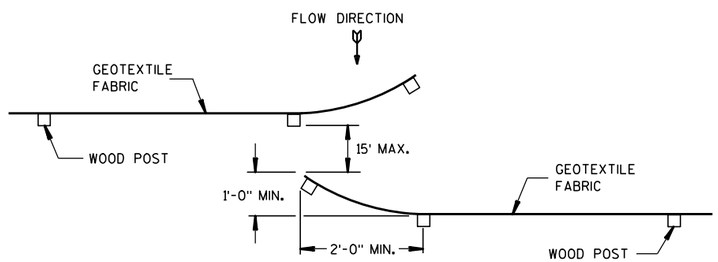
TRENCH DETAIL



SILT FENCE

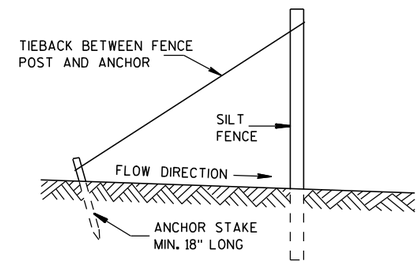


TWIST METHOD



HOOK METHOD

JOINING TWO LENGTHS OF SILT FENCE 5



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 8 E 9-6

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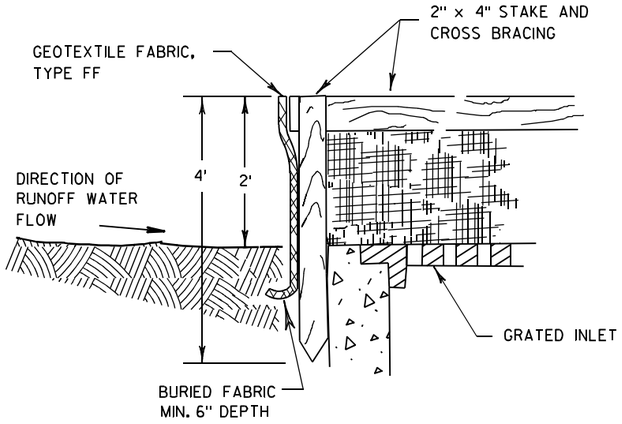
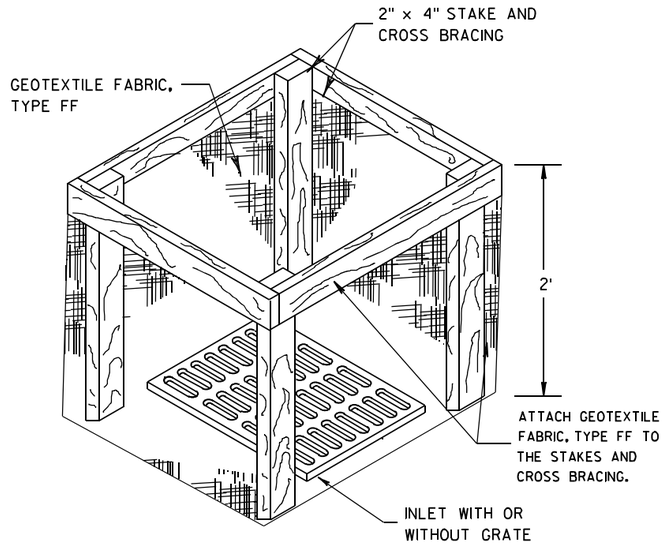
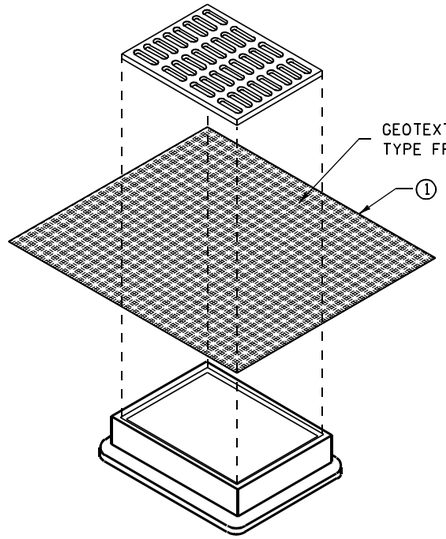
S.D.D. 8 E 9-6



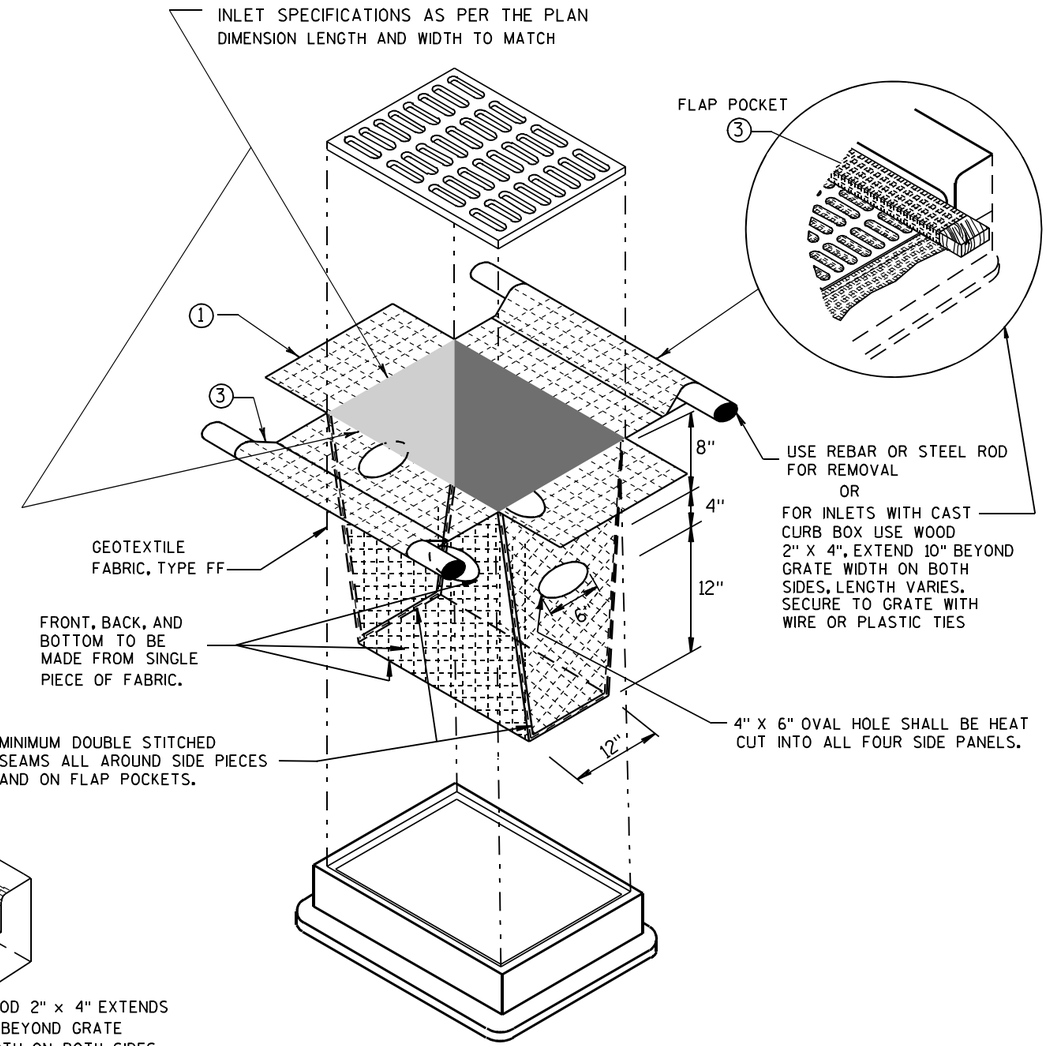


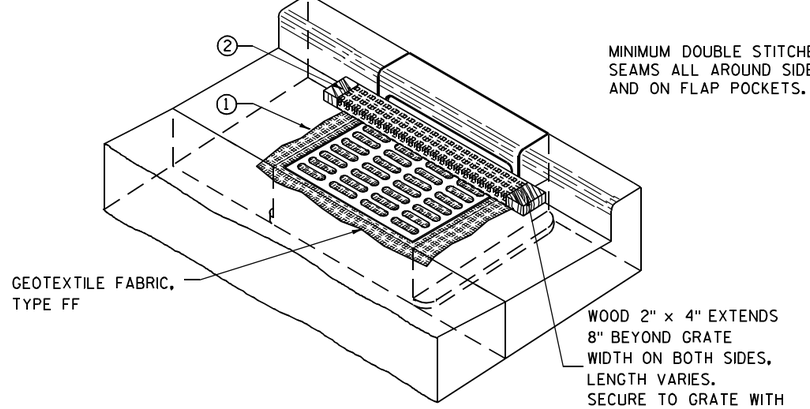
INLET PROTECTION, TYPE A



INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)





INLET PROTECTION, TYPE C (WITH CURB BOX)

INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH
OR WITHOUT A CURB BOX AS PER NOTE ②)

GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION
TYPE A, B, C, AND D

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

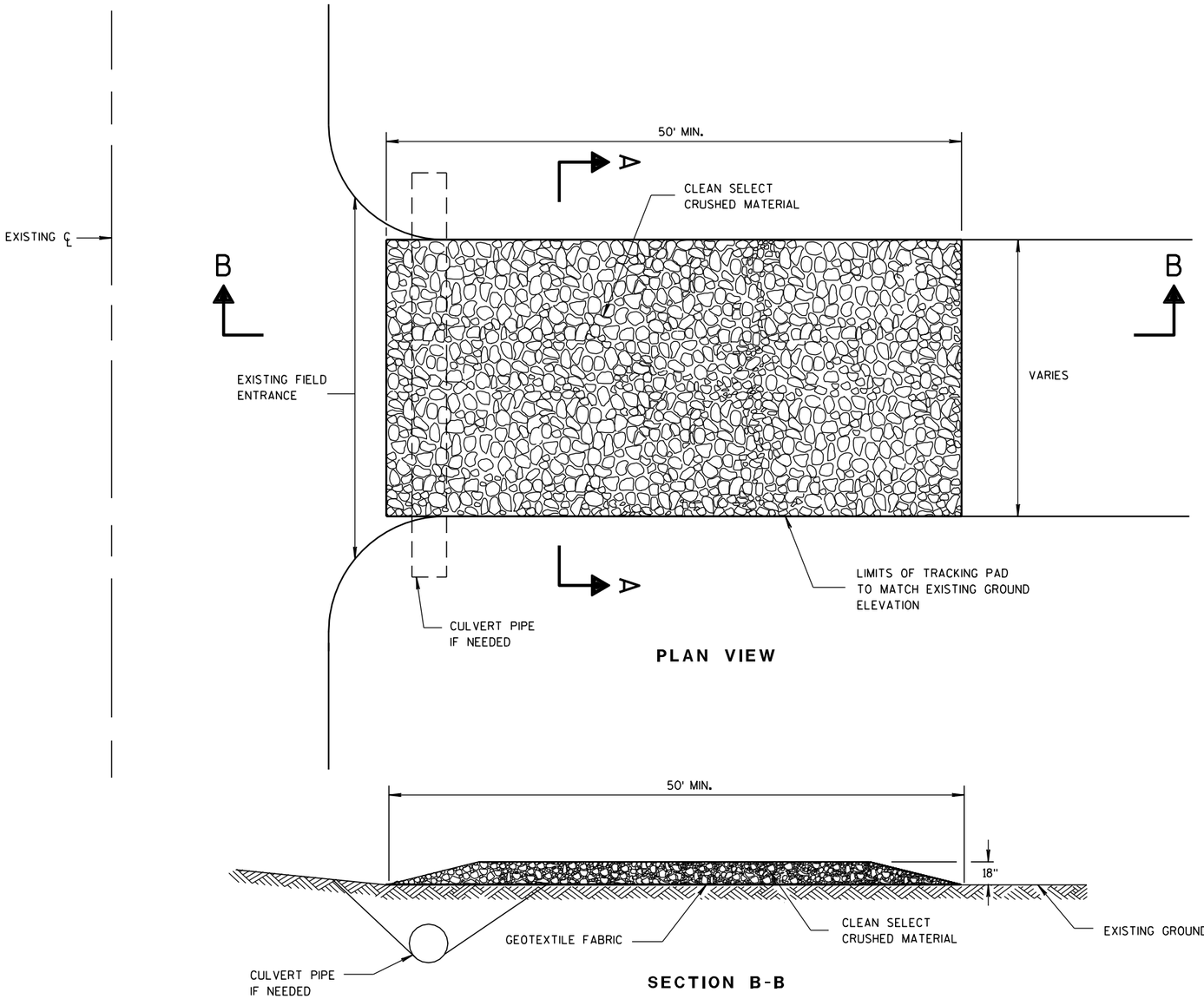
APPROVED

10/16/02
DATE

/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

6
S.D.D. 8 E 10-2



PLAN VIEW

SECTION B-B

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

TRACKING PAD SHALL BE INSPECTED DAILY. DEFICIENT AREAS SHALL BE REPAIRED OR REPLACED IMMEDIATELY.

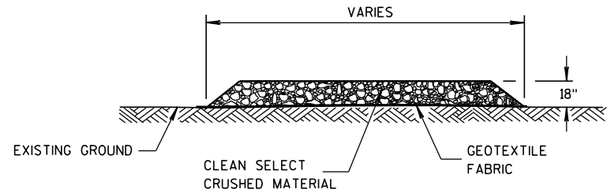
TRACKING PAD TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

TRACKING PAD SHALL BE THE FULL WIDTH OF THE EGRESS POINT.

SURFACE WATER MUST BE PREVENTED FROM PASSING THROUGH THE TRACKING PAD. FLOWS SHALL BE DIVERTED AWAY, AROUND OR CONVEYED UNDER THE TRACKING PAD.

CULVERT PIPE OR OTHER BMP USED TO DIVERT WATER AWAY, AROUND OR UNDER THE TRACKING PAD SHALL BE DESIGNED TO CONVEY THE 2 YEAR - 24 HOUR EVENT.

THE COST OF ADDITIONAL BMP TO DIVERT WATER ARE INCIDENTAL TO THE TRACKING PAD BID ITEM.



SECTION A-A

TRACKING PAD

TRACKING PAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
3/24/2011 — DATE
/S/ Jerry H. Zoda — ROADWAY STANDARDS ENGINEER
FHWA

6

S.D.D. 8 E 14-1

6

S.D.D. 8 E 14-1

METAL APRON ENDWALLS

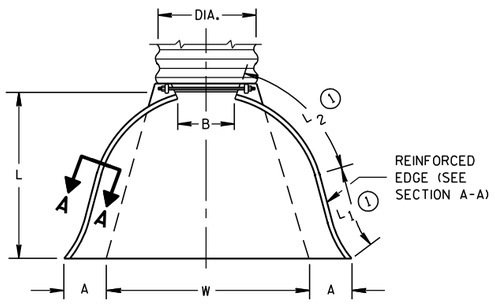
PIPE DIA. (IN.)	MIN. THICK. (Inches)		DIMENSIONS (Inches)							APPROX. SLOPE	BODY
	STEEL	ALUM.	A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")		
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	36	2 1/2 to 1	1 Pc.
21	.064	.060	9	12	6	36	18	29 5/8	42	2 1/2 to 1	1 Pc.
24	.064	.075	10	13	6	41	18	37 1/4	48	2 1/2 to 1	1 Pc.
30	.079	.075	12	16	8	51	18	52 1/4	60	2 1/2 to 1	1 Pc.
36	.079	.105	14	19	9	60	24	59 3/4	72	2 1/2 to 1	2 Pc.
42	.109	.105	16	22	11	69	24	75 5/8	84	2 1/2 to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 1/4 to 1	3 Pc.
54	.109	.105	18	30	12	84	30	85 1/2	102	2 1/4 to 1	3 Pc.
60	.109×	.105×	18	33	12	87	—	—	114	2 to 1	3 Pc.
66	.109×	.105×	18	36	12	87	—	—	120	2 to 1	3 Pc.
72	.109×	.105×	18	39	12	87	—	—	126	2 to 1	3 Pc.
78	.109×	.105×	18	42	12	87	—	—	132	1 1/2 to 1	3 Pc.
84	.109×	.105×	18	45	12	87	—	—	138	1 1/2 to 1	3 Pc.
90	.109×	.105×	18	37	12	87	—	—	144	1 1/2 to 1	3 Pc.
96	.109×	.105×	18	35	12	87	—	—	150	1 1/2 to 1	3 Pc.

× EXCEPT CENTER PANEL SEE GENERAL NOTES

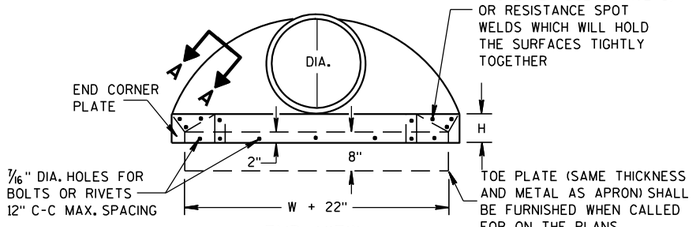
REINFORCED CONCRETE APRON ENDWALLS

PIPE DIA. (IN.)	DIMENSIONS (Inches)							APPROX. SLOPE
	T	A	B	C	D	E	G	
12	2	4	24	48 7/8	72 1/8	24	2	3 to 1
15	2 1/4	6	27	46	73	30	2 1/4	3 to 1
18	2 1/2	9	27	46	73	36	2 1/2	3 to 1
21	2 3/4	9	36	37 1/2	73 1/2	42	2 3/4	3 to 1
24	3	9 1/2	43 1/2	30	73 1/2	48	3	3 to 1
27	3 1/4	10 1/2	49 1/2	24	73 1/2	54	3 1/4	3 to 1
30	3 1/2	12	54	19 3/4	73 1/2	60	3 1/2	3 to 1
36	4	15	63	34 3/4	97 3/4	72	4	3 to 1
42	4 1/2	21	63	35	98	78	4 1/2	3 to 1
48	5	24	72	26	98	84	5	3 to 1
54	5 1/2	27	65	* 33 1/4 - ** 35	* 98 1/4 - ** 100	90	5 1/2	2 2/5 to 1
60	6	* 30 - ** 35	60	39	99	96	5	2 to 1
66	6 1/2	* 24-30 **	* 72-78 **	* 21-27 **	99	102	5 1/2	2 to 1
72	7	* 24-36 **	78	21	99	108	6	2 to 1
78	7 1/2	* 24-36 **	78	21	99	114	6 1/2	2 to 1
84	8	36	90 1/2	21	111 1/2	120	6 1/2	1 1/2 to 1
90	8 1/2	41	87 1/2	24	111 1/2	132	6 1/2	1 1/2 to 1

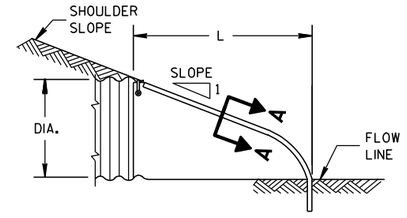
* MINIMUM
** MAXIMUM



PLAN VIEW

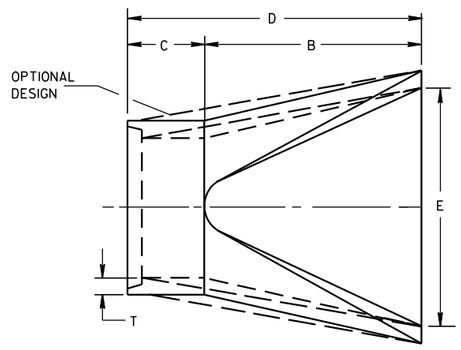


END VIEW

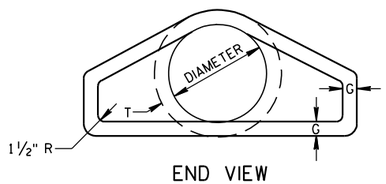


SIDE ELEVATION

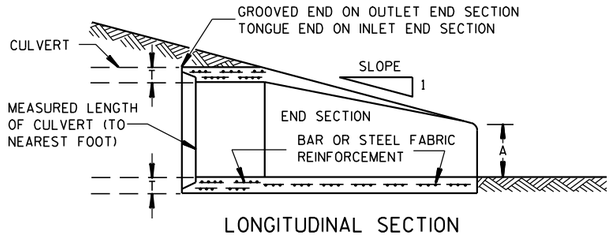
METAL ENDWALLS



PLAN

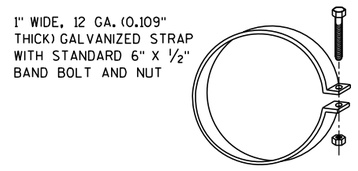


END VIEW



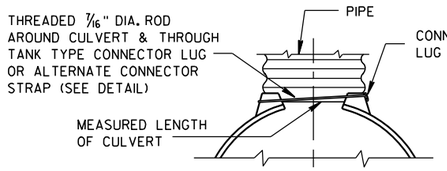
LONGITUDINAL SECTION

CONCRETE ENDWALLS

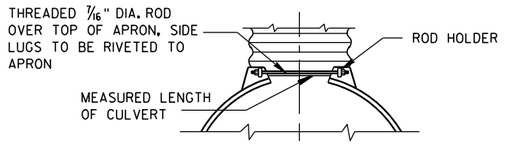


ALTERNATE FOR TYPE 1 CONNECTION

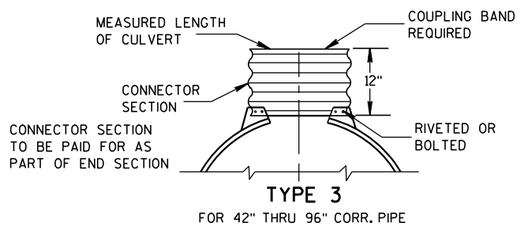
END SECTION CONNECTOR STRAP



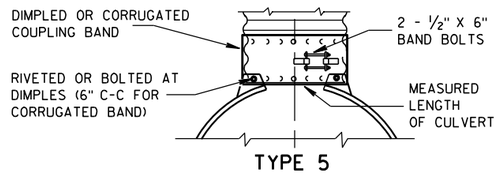
TYPE 1
FOR 12" THRU 24" CORR. PIPE



TYPE 2
FOR 30" THRU 96" CORR. PIPE



TYPE 3
FOR 42" THRU 96" CORR. PIPE



TYPE 5
ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

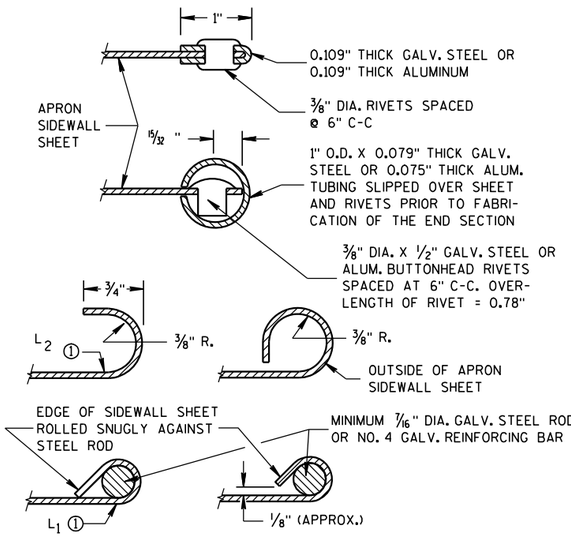
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5 AS APPLICABLE.

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

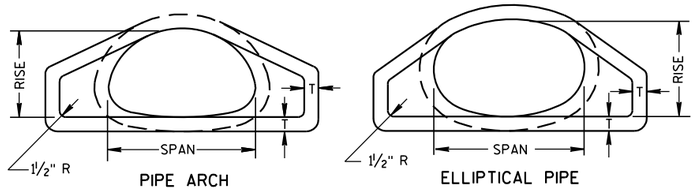
① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR CULVERT PIPE

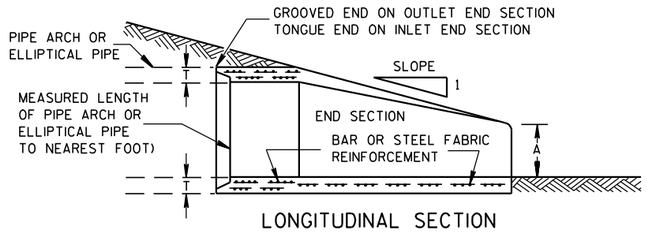
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/30/94 DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

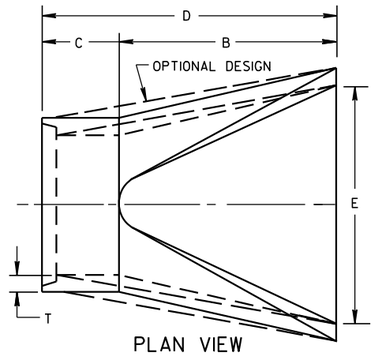
6
S.D.D. 8 F 1-11



END VIEW

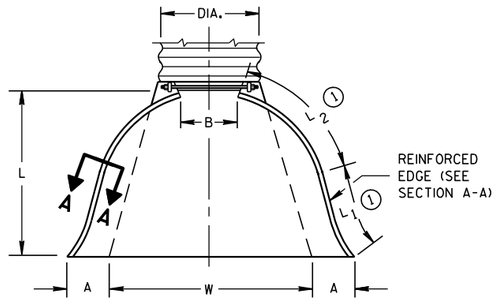


LONGITUDINAL SECTION

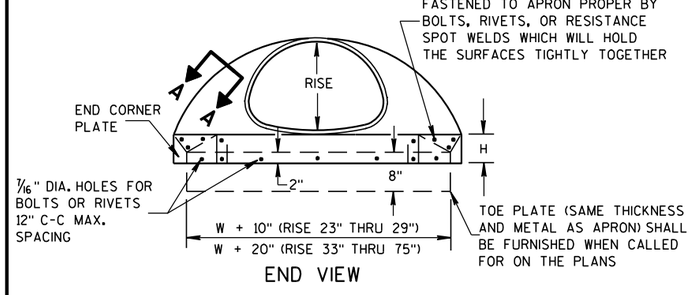


PLAN VIEW

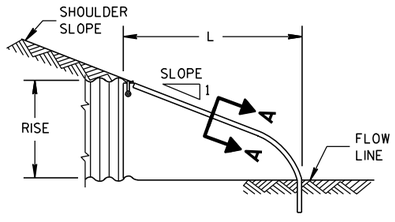
CONCRETE ENDWALLS



PLAN VIEW

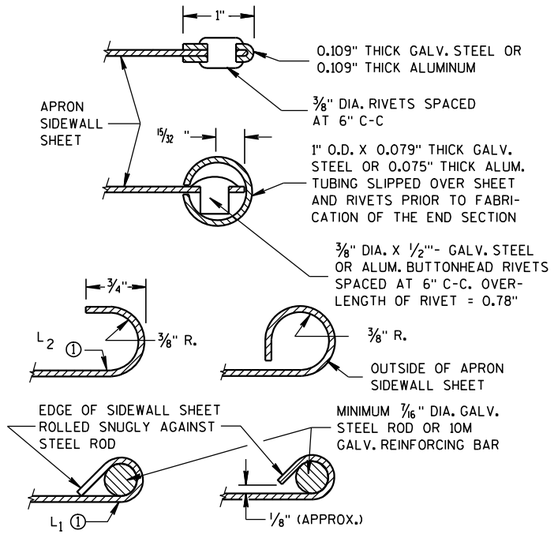


END VIEW



SIDE ELEVATION

METAL ENDWALLS



SECTION A-A

2- 2/3" X 1/2" CORRUGATIONS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
15	17	13	.064	.060	7	9	6	19	14	16	30	2½ to 1	1 Pc.
18	21	15	.064	.060	7	10	6	23	14	19⅜	36	2½ to 1	1 Pc.
21	24	18	.064	.060	8	12	6	28	18	21¾	42	2½ to 1	1 Pc.
24	28	20	.064	.060	9	14	6	32	18	27½	48	2½ to 1	1 Pc.
30	35	24	.079	.075	10	16	6	39	18	37⅝	60	2½ to 1	1 Pc.
36	42	29	.079	.075	12	18	8	46	24	45⅜	75	2½ to 1	1 Pc.
42	49	33	.109	.105	13	21	9	53	24	54¾	85	2½ to 1	2 Pc.
48	57	38	.109	.105	18	26	12	63	24	68	90	2½ to 1	3 Pc.
54	64	43	.109	.105	18	30	12	70	24	72¾	102	2¼ to 1	3 Pc.
60	71	47	.109*	.105*	18	33	12	77	30	82¼	114	2¼ to 1	3 Pc.
66	77	52	.109*	.105*	18	36	12	77	—	—	126	2 to 1	3 Pc.
72	83	57	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.

3" X 1" CORRUGATIONS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
48	53	41	.109	.105	18	26	12	63	24	72¾	90	2½ to 1	2 Pc.
54	60	46	.109	.105	18	30	12	70	30	82¼	102	2 to 1	2 Pc.
60	66	51	.109*	.105*	18	33	12	77	—	—	114	1½ to 1	3 Pc.
66	73	55	.109*	.105*	18	36	12	77	—	—	126	1½ to 1	3 Pc.
72	81	59	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.
78	87	63	.109*	.105*	22	38	12	77	—	—	148	1½ to 1	3 Pc.
84	95	67	.109*	.105*	22	34	12	77	—	—	162	1½ to 1	3 Pc.
90	103	71	.109*	.105*	22	38	12	77	—	—	174	1½ to 1	3 Pc.
96	112	75	.109*	.105*	24	40	12	77	—	—	174	1½ to 1	3 Pc.

NOTE: ALL SPLICES TO BE LAP RIVETED OR BOLTED.

* EXCEPT CENTER PANEL SEE GENERAL NOTES

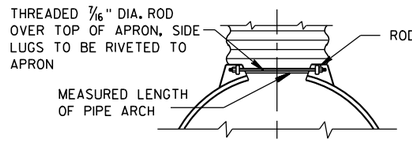
REINFORCED CONCRETE PIPE ARCH

EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	29	18	3	8½	39	33	72	48	3 to 1
30	36	22	3½	9½	50	46	96	60	3 to 1
36	44	27	4	11⅛	60	36	96	72	3 to 1
42	51	31	4½	15 13/16	60	36	96	78	3 to 1
48	58	36	5	21	60	36	96	84	3 to 1
54	65	40	5½	25½	60	36	96	90	3 to 1
60	73	45	6	31	60	36	96	96	3 to 1
72	88	54	7	31	60	39	99	120	2 to 1
84	102	62	8	28½	83	19	102	144	2 to 1

REINFORCED CONCRETE ELLIPTICAL PIPE

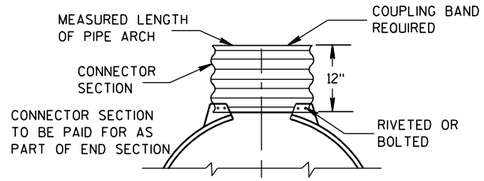
EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	30	19	3¼	8½	39	33	72	48	3 to 1
30	38	24	3¾	9½	54	18	72	60	3 to 1
36	45	29	4½	11⅛	60	24	84	72	2½ to 1
42	53	34	5	15¾	60	36	96	78	2½ to 1
48	60	38	5½	21	60	36	96	84	2½ to 1
54	68	43	6	25½	60	36	96	90	2½ to 1
60	76	48	6½	30	60	36	96	96	2½ to 1

**NOMINAL SIZE



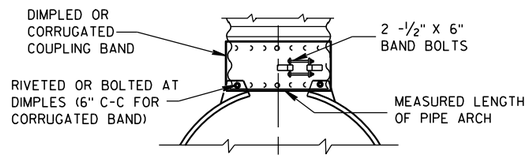
TYPE 2

FOR 17" X 13" THRU 112" X 75" PIPE ARCH



TYPE 3

FOR 64" X 43" THRU 112" X 75" PIPE ARCH



TYPE 5

ALTERNATE FOR:

ALL SIZES CORRUGATED PIPE ARCHES

NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL, AND CORRUGATED BAND FITS INSIDE ENDWALL.

CONNECTION DETAILS

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

CONCRETE APRON ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM APRON ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE ARCH PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 77" X 52" THROUGH 112" X 75" APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

① FOR PIPE ARCH SIZES UP TO 73" X 55" A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

11/30/94 — DATE

/S/ Rory L. Rhinesmith — CHIEF ROADWAY DEVELOPMENT ENGINEER

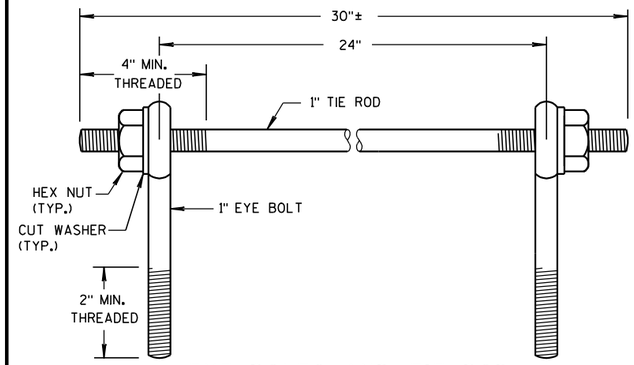
FHWA

6

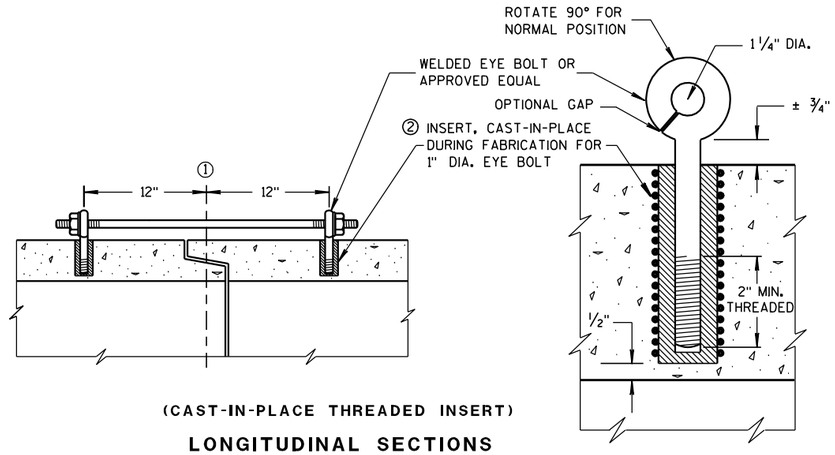
S.D.D. 8 F 2-1

6

S.D.D. 8 F 2-1



EYE BOLTS AND TIE ROD



(CAST-IN-PLACE THREADED INSERT)

LONGITUDINAL SECTIONS

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 1)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT AND STORM SEWER PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED IN THE STANDARD SPECIFICATIONS AND THE PLAN. THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR DRAINAGE STRUCTURES. ONLY ALTERNATE 1 AND 3 MAY BE USED FOR CATTLE PASSES, UNLESS OTHERWISE STATED IN THE CONTRACT. THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE THE PIPE BY THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO THE PIPE AND APRON ENDWALLS IF REQUIRED.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

JOINT TIES TO BE HOT-DIP GALVANIZED PER ASTM A 153.

① ℄ OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.

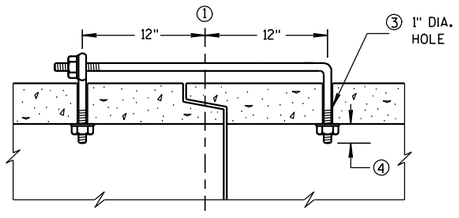
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

③ HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12 INCHES FROM ℄ OF TONGUE AND GROOVE.

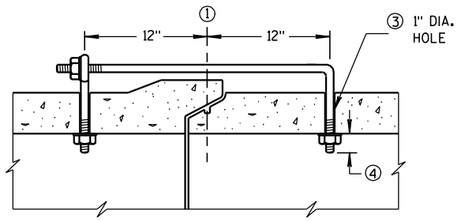
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

⑤ OPENING TO BE ROD DIAMETER PLUS 1 INCH.

⑥ LENGTH ADEQUATE TO EXTEND TO WITHIN 1/2 INCH OF THE INNER SURFACE OF THE PIPE.



(TONGUE & GROOVE PIPE)

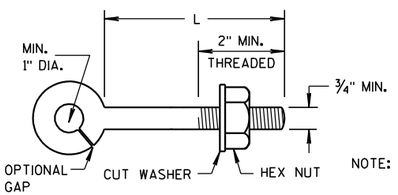


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

EYE BOLT DIMENSION TABLE

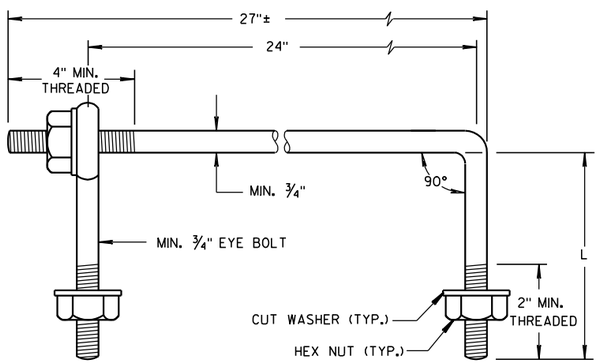
PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	



NOTE:

EYE BOLT

NOTE: TWO EYE BOLTS MAY BE USED WITH A 30" LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.



EYE BOLT AND TIE ROD

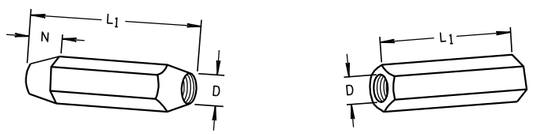
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 2)

ADJUSTABLE TIE ROD TABLE

PIPE DIAMETER	TIE ROD DIAMETER	D	L_1	N
12-60	5/8	5/8	5	1/2
66-84	3/4	3/4	5	1/2
90-108	1	1	7	1 1/16

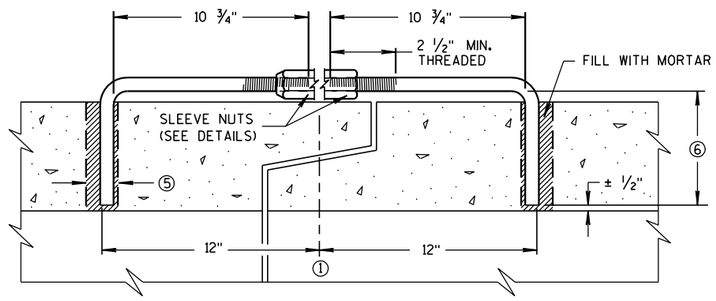
DIMENSIONS SHOWN ARE IN INCHES



TAPERED PLAIN

RIGHT AND LEFT THREADS

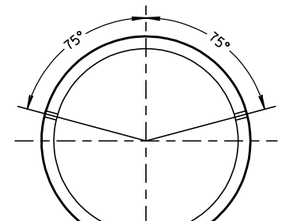
SLEEVE NUTS



LONGITUDINAL SECTION

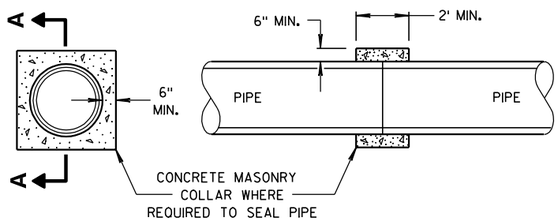
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



PLACEMENT OF (2) CAST-IN-PLACE INSERTS OR HOLES DURING FABRICATION FOR PIPE SECTIONS REQUIRING TIE RODS

TRANSVERSE SECTION



SECTION A-A

CONCRETE COLLAR DETAIL

JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/5/2012 DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER
FHWA

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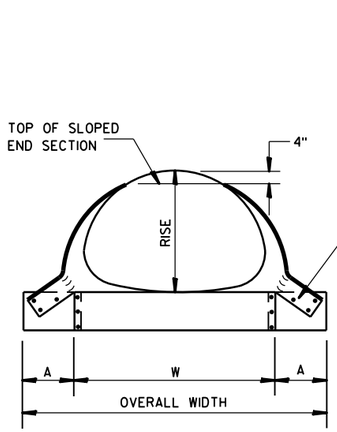
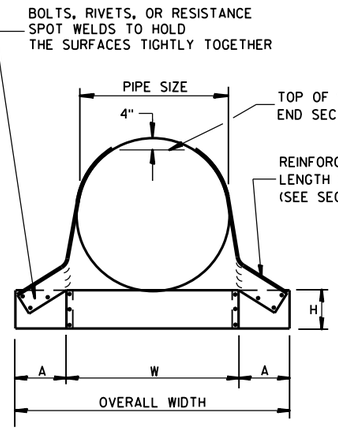
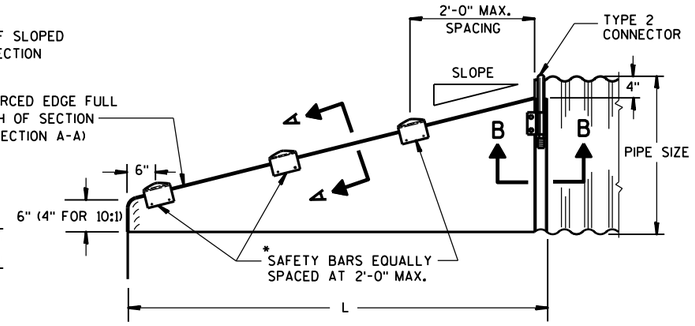


FRONT VIEW



FRONT VIEW



SIDE VIEW

GENERAL NOTES

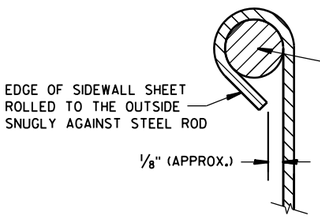
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

SLOPED END SECTIONS SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS, SECTION 521 FOR STEEL APRON ENDWALLS.

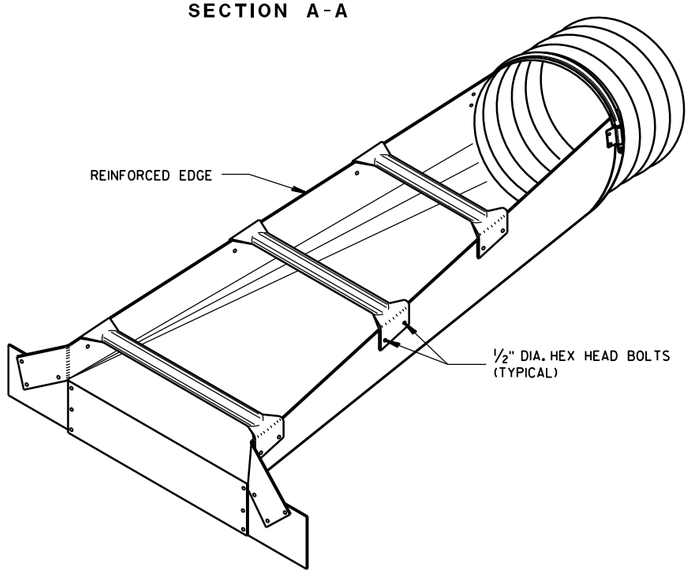
SAFETY BARS SHALL BE FABRICATED FROM GALVANIZED STEEL PIPE MEETING THE REQUIREMENTS OF ASTM A-53, GRADE B, SCHEDULE 40 OR APPROVED EQUAL.

STEEL APRON ENDWALLS FOR CULVERT PIPE
SLOPED SIDE DRAINS

PIPE DIA. (IN.)	MIN. THICK. (Inches)	DIMENSIONS (Inches)				L DIMENSIONS					
		A	H	W	OVERALL WIDTH	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES
15	.064	8	6	21	37	4:1	20	6:1	30	10:1	70
18	.064	8	6	24	40	4:1	32	6:1	48	10:1	100
21	.064	8	6	27	43	4:1	44	6:1	66	10:1	130
24	.064	8	6	30	46	4:1	56	6:1	84	10:1	160
30	.109	12	9	36	60	4:1	80	6:1	120	10:1	220
36	.109	12	9	42	66	4:1	104	6:1	156	10:1	280
42	.109	16	12	48	80	4:1	128	6:1	192	——	——
48	.109	16	12	54	86	4:1	152	6:1	228	——	——
54	.109	16	12	60	92	4:1	176	6:1	264	——	——
60	.109	16	12	66	98	4:1	200	6:1	300	——	——



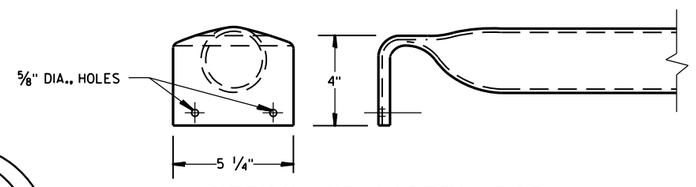
SECTION A-A



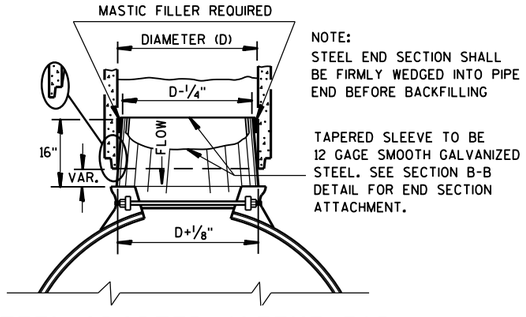
ISOMETRIC VIEW

*NOTE:
THREE SAFETY BARS ARE SHOWN. ACTUAL NUMBER OF BARS REQUIRED AT A 2'-0" C-C MAX. SPACING WILL VARY DEPENDING ON THE LENGTH OF THE END SECTION.

3" GALVANIZED PIPE. FLATTEN ENDS, THEN BEND OUTSIDE 4" TO MATCH END SECTION SIDES.



DETAIL OF SAFETY BAR

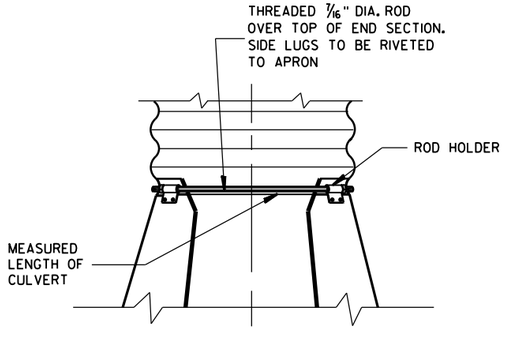


STEEL ADAPTER SLEEVE FOR CONCRETE PIPE

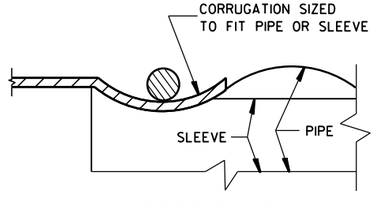
STEEL APRON ENDWALLS FOR PIPE ARCH
SLOPED SIDE DRAINS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) ①	DIMENSIONS (Inches) A	H	W	OVERALL WIDTH	L DIMENSIONS SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES
15	17	13	.064 *	7	6	30	44	4:1	19	6:1	30	10:1 ②	70
18	21	15	.064 *	8	6	27	43	4:1	20	6:1	30	10:1	70
21	24	18	.064 *	8	6	30	46	4:1	32	6:1	48	10:1	100
24	28	20	.064 *	8	6	34	50	4:1	40	6:1	60	10:1	120
30	35	24	.079 *	12	9	41	65	4:1	56	6:1	84	10:1	160
36	42	29	.109 *	12	9	48	72	4:1	76	6:1	114	10:1	210
42	49	33	.109	16	12	55	87	4:1	92	6:1	138	——	——
48	57	38	.109	16	12	63	95	4:1	112	6:1	168	——	——
54	64	43	.109	16	12	70	102	4:1	132	6:1	198	——	——

① * MINIMUM THICKNESS OF ALL 10:1 SLOPED SIDE DRAINS IS 0.109".
② ACTUAL SLOPE GREATER THAN 10:1.



TYPE 2
CONNECTION DETAIL



SECTION B-B

STEEL APRON ENDWALLS FOR CULVERT PIPE AND PIPE ARCH SLOPED SIDE DRAINS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
9/14/2012 — DATE
/S/ Jerry H. Zoda — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

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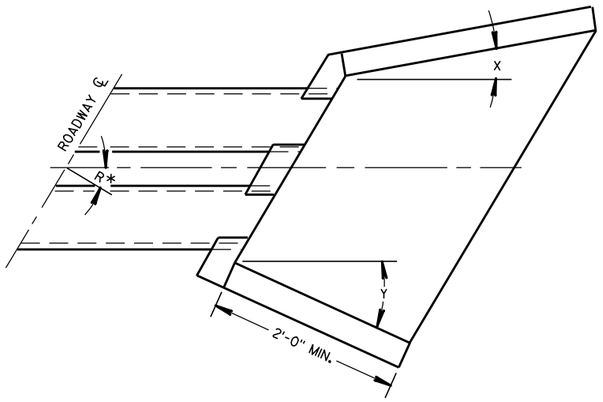


WINGWALL ANGLE DETAILS

INLET			OUTLET		
R*	X	Y	R*	X	Y
0 - 7°	30°	30°	0 - 15°	15°	15°
8 - 22°	25°	"	16 - 45°	10°	"
23 - 37°	20°	"	46 - 75°	5°	"
38 - 52°	15°	"	OVER 75°	0°	"
53 - 67°	10°	"			
68 - 82°	5°	"			
OVER 82°	0°	"			

*R = NUMBER OF DEGREES RIGHT OR LEFT HAND FORWARD

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

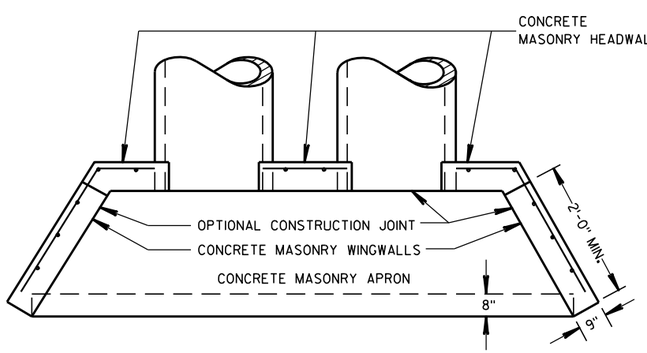
FILL SLOPES FLATTER THAN 2 ½:1 SHALL BE WARPED TO MEET THE TOP OF THE WINGWALLS.

ALL STEEL REINFORCEMENT AND WELDED STEEL WIRE FABRIC SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE NOTED.

(1) MINIMUM REINFORCEMENT SHALL BE 6" X 6" - W4.0 X W4.0 OR NO. 3 BARS SPACED 12" C-C IN BOTH DIRECTIONS.

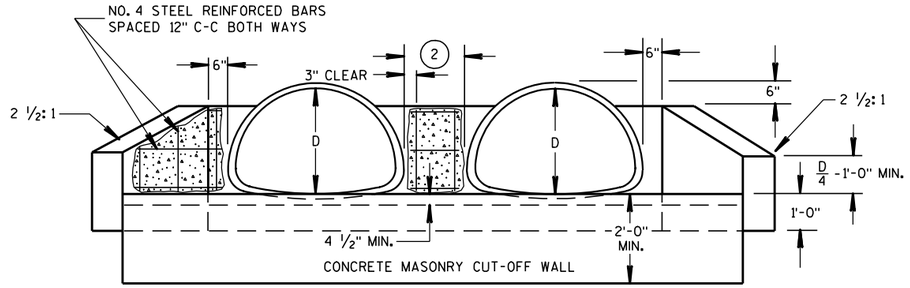
(2) THE SPACE BETWEEN PIPES SHALL BE AS FOLLOWS:

DIAMETER OR SPAN	SPACE
UP TO AND INCLUDING 48"	2'-0"
OVER 48" TO 72"	½ DIA. OR SPAN
OVER 72"	3'-0"



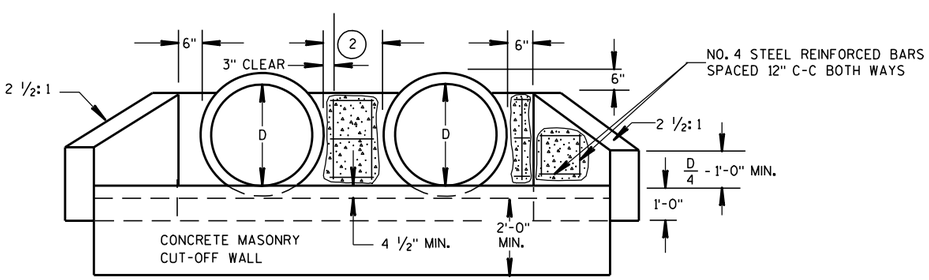
PLAN VIEW

CULVERT PIPE AND PIPE ARCH



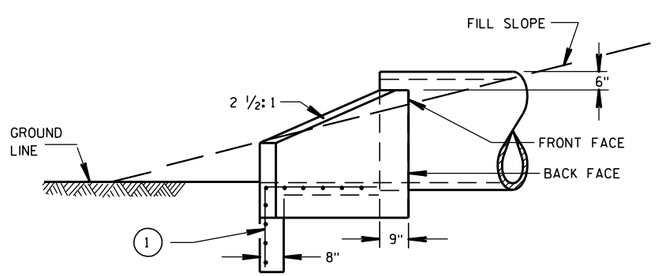
END ELEVATION

PIPE ARCH



END ELEVATION

CULVERT PIPE



SIDE ELEVATION

CULVERT PIPE AND PIPE ARCH

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

9/14/98 DATE

/S/ Rory L. Rhinehart
CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

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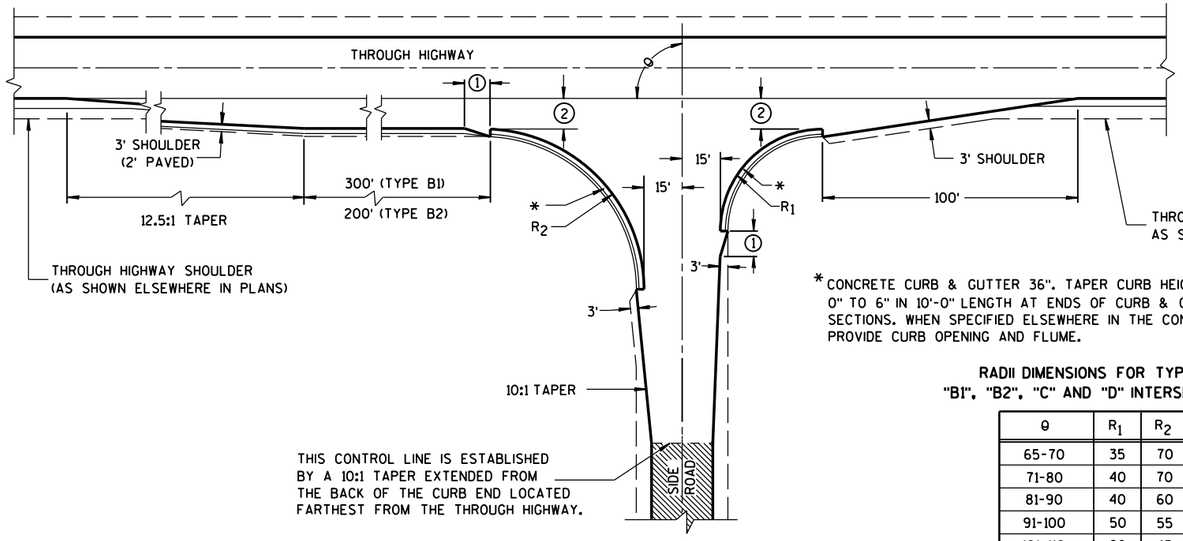
S.D.D. 8 F 10-1

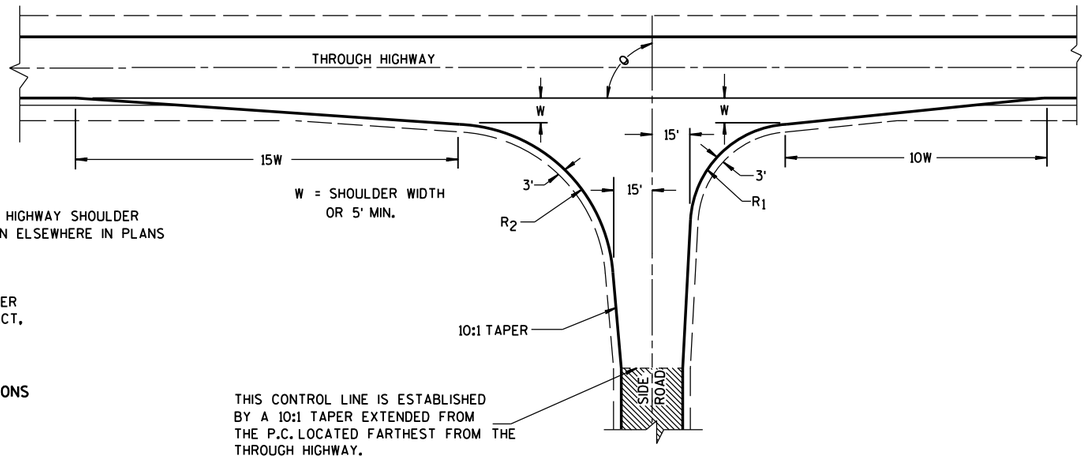


TYPE "B1" AND "B2"

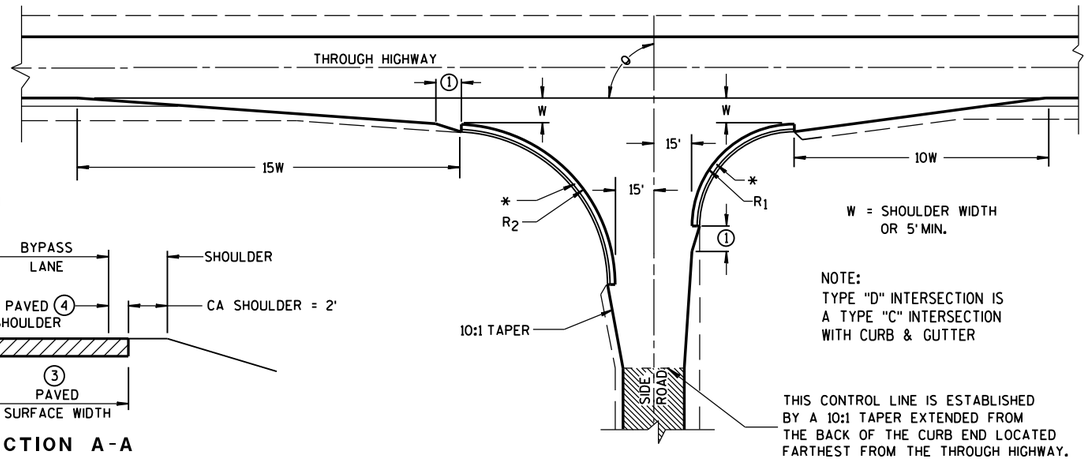
*CONCRETE CURB & GUTTER 36". TAPER CURB HEIGHT 0" TO 6" IN 10'-0" LENGTH AT ENDS OF CURB & GUTTER SECTIONS. WHEN SPECIFIED ELSEWHERE IN THE CONTRACT, PROVIDE CURB OPENING AND FLUME.

RADII DIMENSIONS FOR TYPES "B1", "B2", "C" AND "D" INTERSECTIONS

θ	R_1	R_2
65-70	35	70
71-80	40	70
81-90	40	60
91-100	50	55
101-110	60	45



TYPE "C"



TYPE "D"

GENERAL NOTES

DESIGNS MAY BE USED INTERCHANGEABLY IN COMBINATION OR SEPARATELY FOR ANY ONE COMPLETE INTERSECTION DEPENDING UPON INTERSECTION ANGLE AND SURFACING OF EACH APPROACH ROADWAY.

SIDE ROAD SURFACING NOTE

WHEN THE SIDE ROAD IS NOT PRESENTLY PAVED, PAVEMENT SHALL BE PLACED TO THE LIMITS SHOWN UNLESS OTHERWISE PROVIDED IN THE CONTRACT. WHERE THE CONSTRUCTION LIMITS ARE BEYOND THE PAVING LIMITS, CRUSHED AGGREGATE SURFACING SHALL BE PLACED BETWEEN THE PAVING LIMITS AND CONSTRUCTION LIMITS.

WHEN THE SIDE ROAD IS PRESENTLY PAVED, NEW PAVEMENT SHALL BE PLACED TO THE LIMITS OF DESIGN AS SHOWN AND BEYOND, IF NECESSARY, TO MEET EXISTING PAVEMENT.

WHEN THE SIDE ROAD IS THE CONSTRUCTION PROJECT, THE INTERSECTION SURFACING SHALL BE THE SAME AS FOR THE PROJECT.

EXISTING PAVED SURFACE

BYPASS LANE

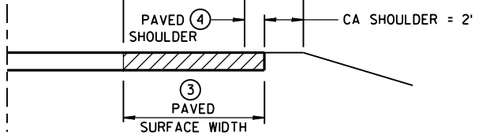
(1) 10-FT TYPICAL.

(2) 12-FT** PLUS ADDITIONAL WIDTH FOR BIKE LANE IF SHOWN ELSEWHERE IN THE PLAN.

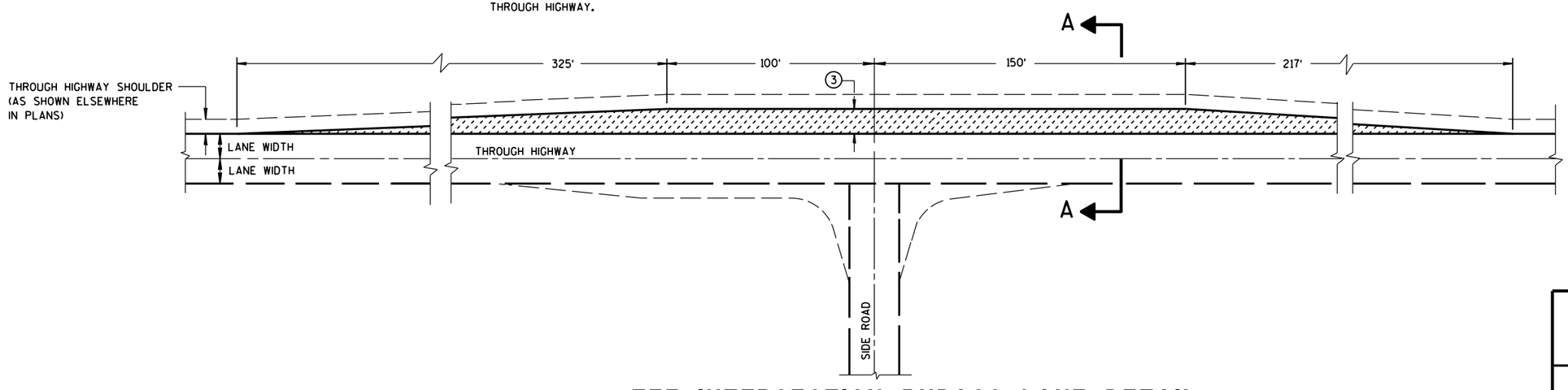
**10-FT MAY BE USED ON TYPE B2 ON RESURFACING PROJECTS IF SPECIFIED IN THE CONTRACT.

(3) BYPASS LANE PAVED SURFACE WIDTH OUTSIDE OF TRAVEL LANE
-ASPHALT = 12-FT PLUS PAVED SHOULDER WIDTH.
-PC CPNCRETE = 13-FT PLUS PAVED SHOULDER WIDTH.

(4) BYPASS LANE PAVED SHOULDER WIDTH = THE GREATER OF 1-FT OR THE PAVED SHOULDER WIDTH OF THE THROUGH HIGHWAY.



SECTION A-A
(SHOWING BYPASS LANE AND SHOULDER)



TEE INTERSECTION BYPASS LANE DETAIL

AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND "D" AND TEE INTERSECTION BYPASS LANE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

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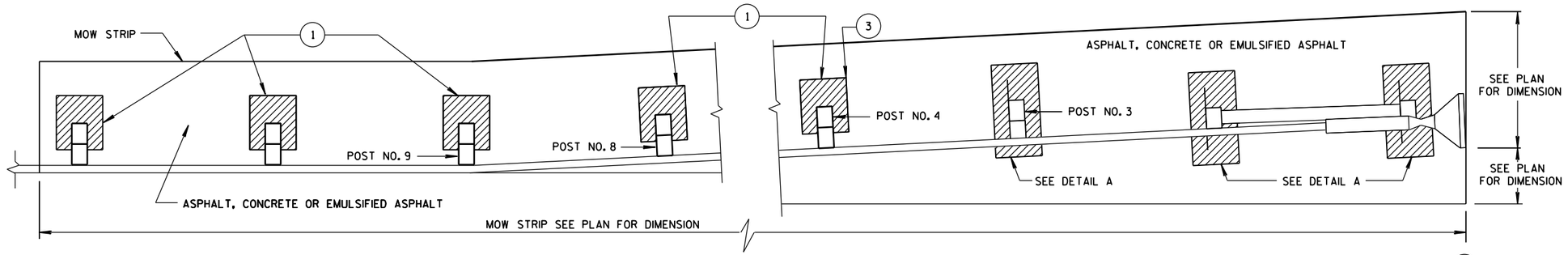
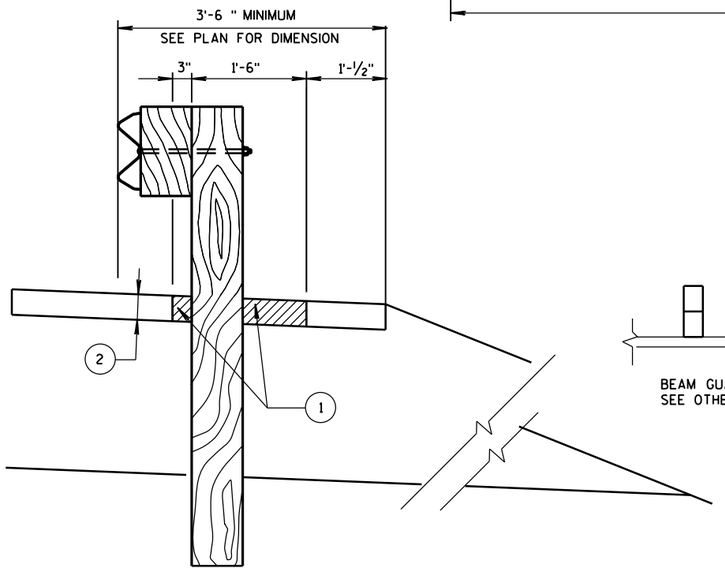
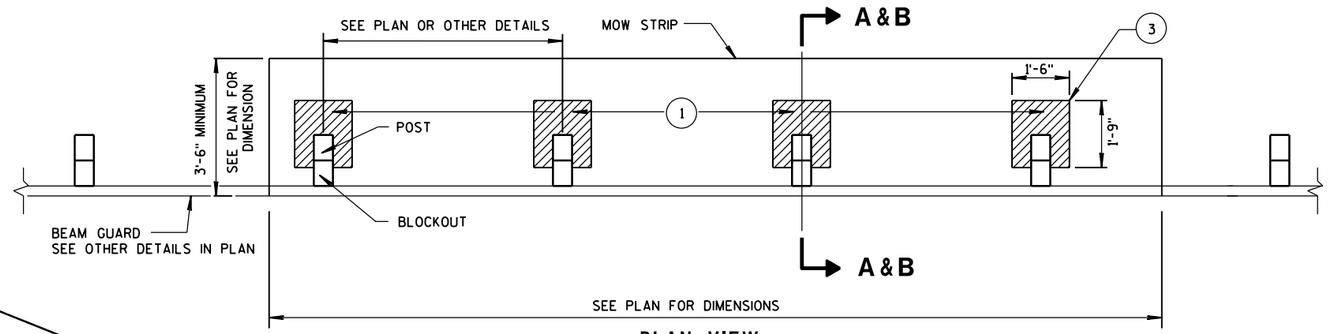


PLAN VIEW

MOW STRIP LAYOUT FOR ENERGY ABORBING TERMINAL

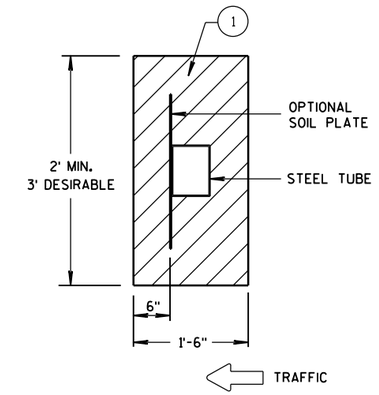


SECTION A-A

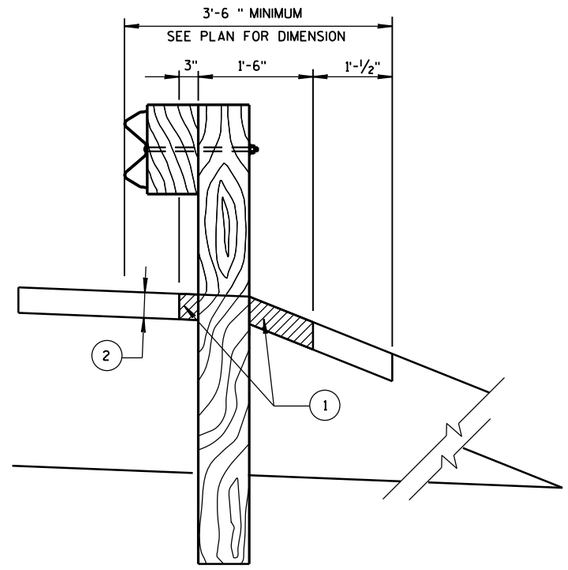


PLAN VIEW

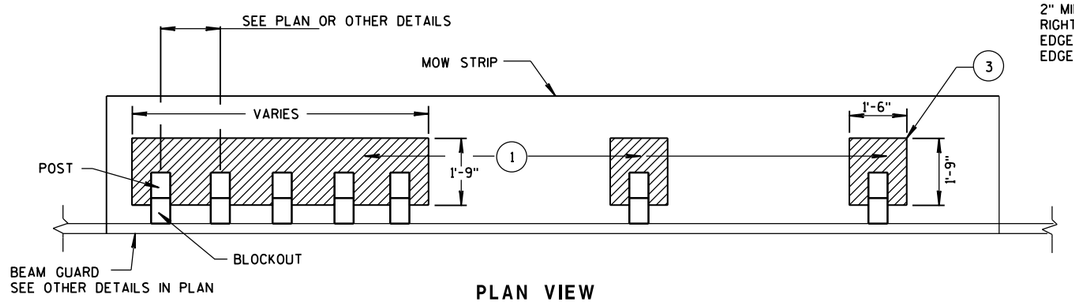
MOW STRIP FOR TYPICAL BLOCKOUT LAYOUT



DETAIL A

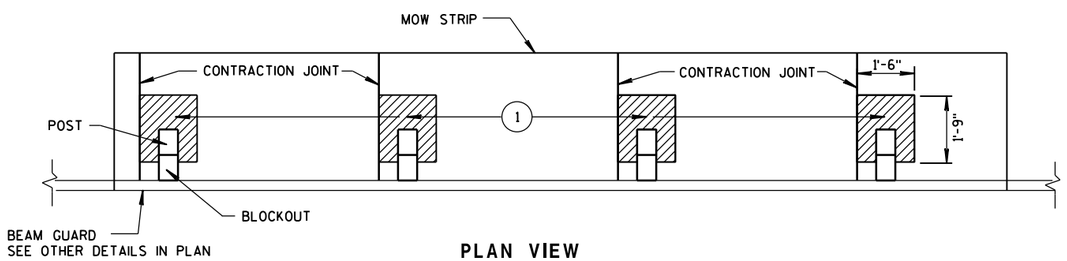


SECTION B-B



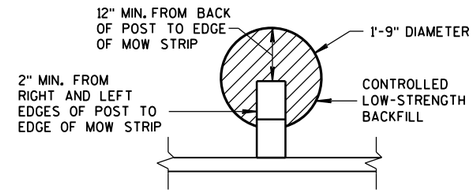
PLAN VIEW

MOW STRIP FOR TIGHT SPACING LAYOUT



PLAN VIEW

JOINT PLACEMENT FOR CONCRETE MOW STRIP



ALTERNATIVE HMA
MOW STRIP DESIGN

(1) CONTROLLED LOW-STRENGTH BACKFILL OR EMULSIFIED ASPHALT.

(2) DEPTH OF MOW STRIP:
ASPHALT - 4"
CONCRETE - 4"
EMULSIFIED ASPHALT - 1" OR LESS

(3) FOR EMULSIFIED ASPHALT MOW STRIP LEAVE OUTS NOT REQUIRED. (TYPICAL FOR ALL POSTS.)

GUARDRAIL MOW STRIP

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2014
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

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① WOOD OR STEEL POSTS (w6X9 OR w6X8.5) MAY BE USED. DO NOT INTERMIX WOOD AND STEEL POSTS. INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.

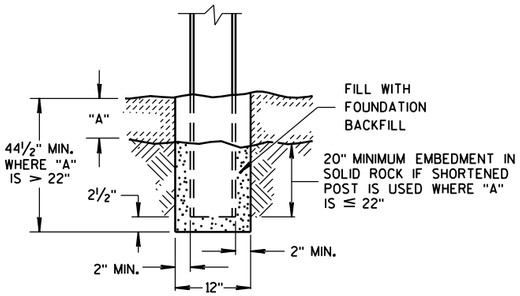
② USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.

③ IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2½ INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS TO BE FREE OF LARGE ROCKS.

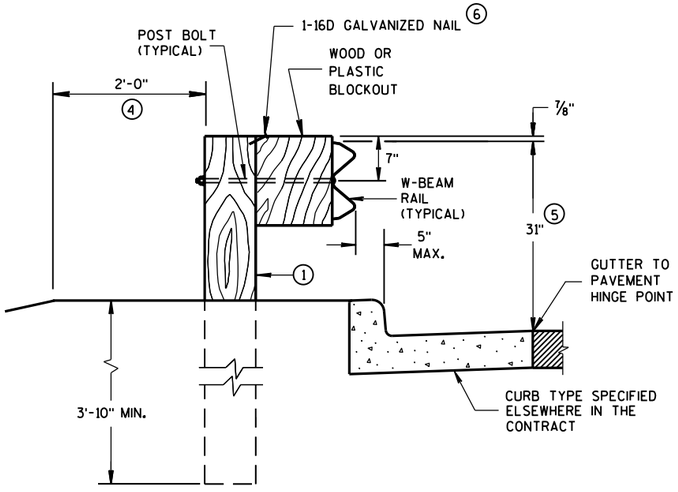
④ WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).

⑤ FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ± 1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27¾" TO 32".

⑥ WHEN USING STEEL POST AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.



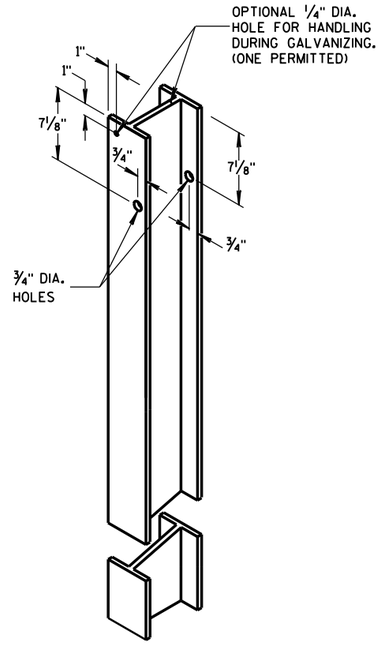
END VIEW
SETTING STEEL OR WOOD POST IN ROCK ③



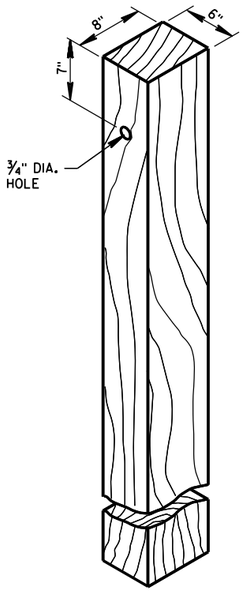
END VIEW
LOCATED ALONG A CURBED ROADWAY

END VIEW
LOCATED ALONG A ROADWAY SHOULDER
STANDARD INSTALLATION

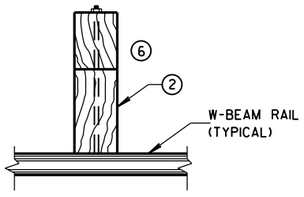
END VIEW
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



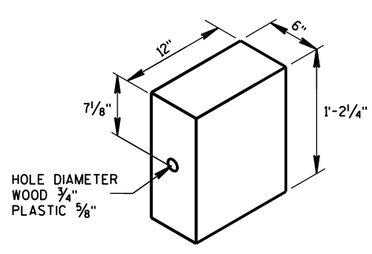
STEEL POST &
HOLE PUNCHING DETAIL
(w6X9) ①



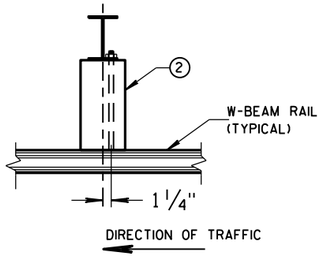
WOOD POST
(6" X 8") NOMINAL ①



PLAN VIEW
WOOD POST,
BLOCKOUT & BEAM



WOOD OR
PLASTIC BLOCKOUT ②

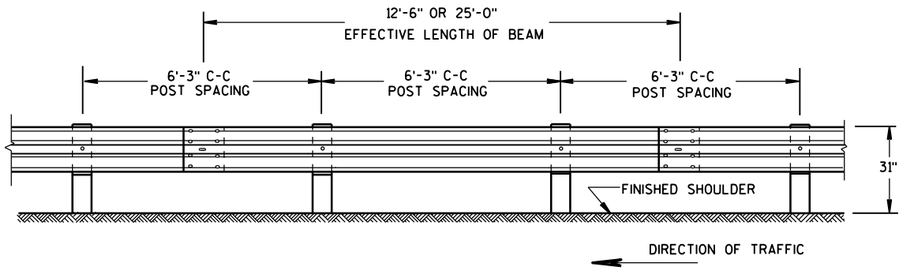


PLAN VIEW
STEEL POST,
PLASTIC BLOCKOUT & BEAM

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

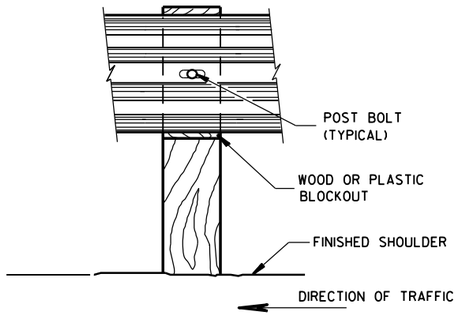
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6
S.D.D. 14 B 42-4a



FRONT VIEW

POST SPACING STANDARD INSTALLATION



FRONT VIEW AT WOOD POST

7. PROVIDE SILVER REFLECTIVE SHEETING ON ALL REFLECTORS EXCEPT THOSE LOCATED ALONG THE LEFT EDGE OF ONE-WAY ROADWAYS, WHICH SHALL BE PROVIDED WITH YELLOW REFLECTIVE SHEETING. SHEETING IS TYPE H. SEE STANDARD SPECIFICATION 637.

8. DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL. RAIL SPLICE LOCATIONS ARE THE ONLY ACCEPTABLE LOCATIONS FOR REFLECTORS.

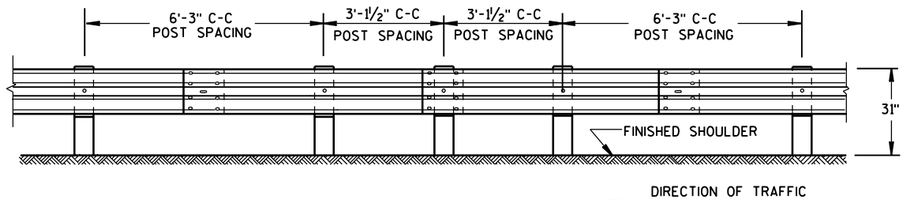
9. REVERSE EVERY OTHER REFLECTOR FOR 2-WAY VISIBILITY. THE CONTRACTOR MAY FURNISH TWO-SIDED REFLECTORS IN LIEU OF ONE-SIDED REFLECTORS.

10. PROVIDE AN ANGLE OF BEND OF 90° ± 1° FOR TWO-SIDED REFLECTORS.

11. 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.

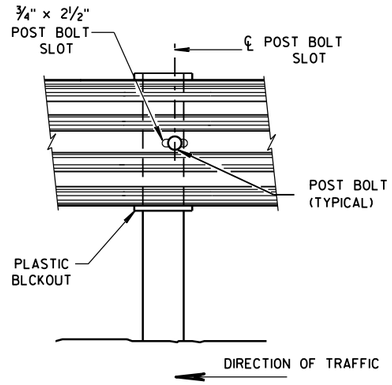
POST BOLTS ARE A 5/8" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT REQUIRES 5/8" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND 5/8" DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS ARE BEING USED.

GUARD RAIL SPLICE BOLTS ARE A 5/8" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES 5/8" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.

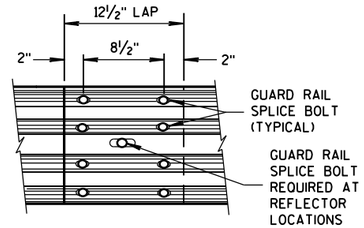


FRONT VIEW

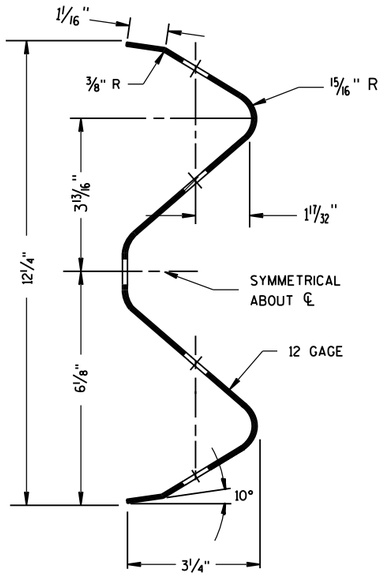
HALF POST SPACING (HS) AND HALF POST SPACING WITH LONGER POSTS (K)



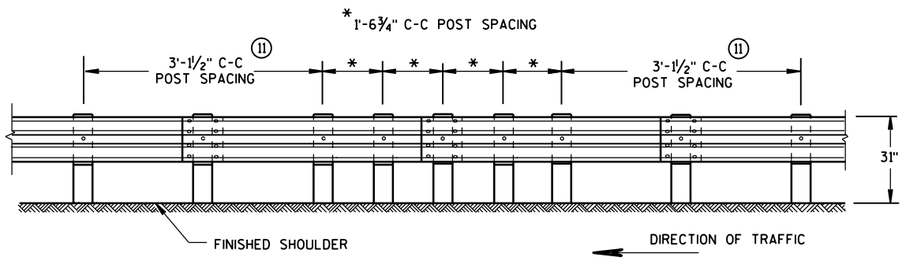
FRONT VIEW AT STEEL POST



FRONT VIEW
MID-SPAN BEAM SPLICE

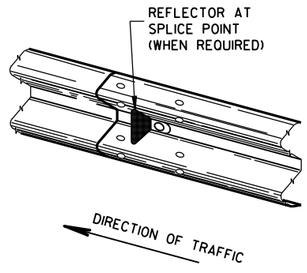


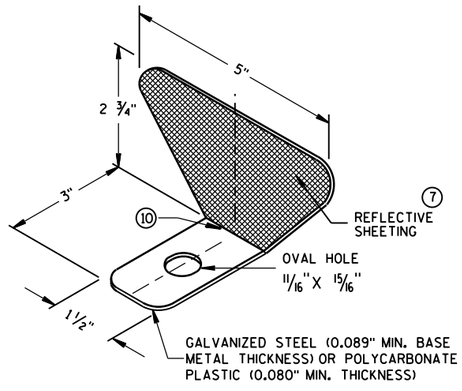
SECTION THRU W-BEAM RAIL



FRONT VIEW

QUARTER POST SPACING (QS)





REFLECTOR SPACING 8

	BEAM GUARD LENGTH	REFLECTOR SPACING	NO. SURFACES REFLECTORIZED	MIN. NO. REFLECTORS
ONE WAY TRAFFIC	< 200'	50' C-C	1	3
	> 200'	100' C-C	1	
TWO WAY TRAFFIC	< 200'	25' C-C	1 9	6
	> 200'	50' C-C	1	
TWO WAY TRAFFIC	< 200'	50' C-C	2	3
	> 200'	100' C-C	2 10	

ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION 7

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

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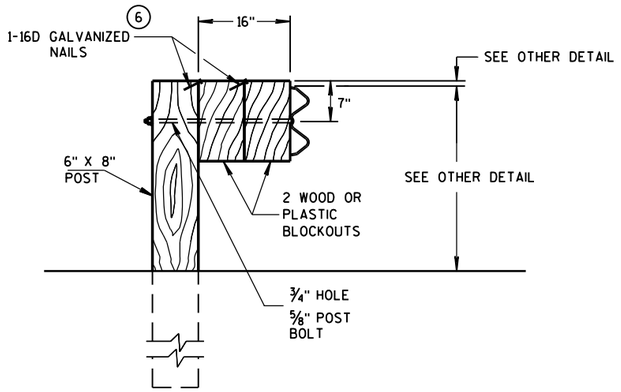
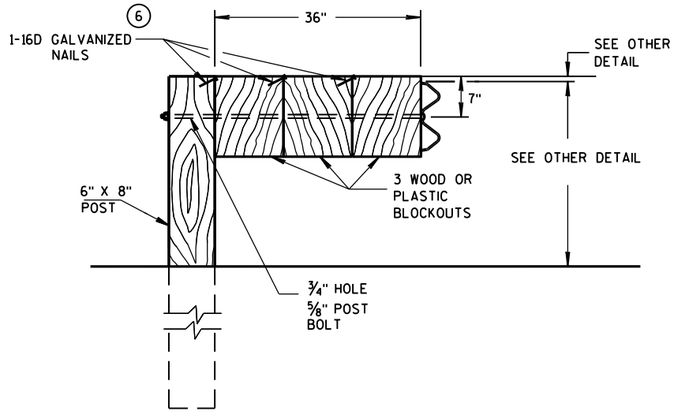
S.D.D. 14 B 42-4b



DETAIL FOR 16" BLOCKOUT DEPTH

IT IS ACCEPTABLE TO USE BLOCKOUTS UP TO 16" DEEP TO INCREASE THE POST OFFSET TO AVOID UNDERGROUND OBSTACLES. THERE IS NO LIMIT TO THE NUMBER OF POSTS THAT CAN HAVE ADDITIONAL BLOCKOUTS UP TO 16" DEEP.

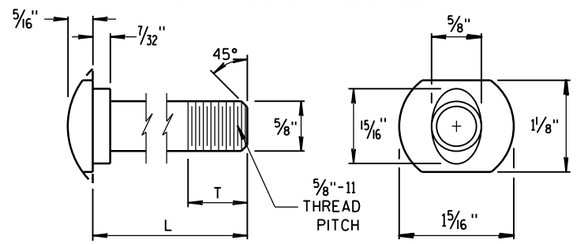


DETAIL FOR 36" BLOCKOUT DEPTH

NOTES: UNDER SPECIAL CIRCUMSTANCES, SUCH AS AVOIDING OBSTACLES THAT ARE NOT RELOCATED, IT IS ACCEPTABLE TO INSTALL ADDITIONAL BLOCKOUTS TO OBTAIN UP TO 36" DEPTH FOR ONE OR TWO POSTS IN A SECTION OF GUARDRAIL.

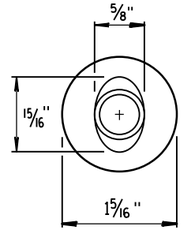
DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

NOTE: 1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF 1/16".
2. IF THE BOLT EXTENDS MORE THAN 1/4" FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.

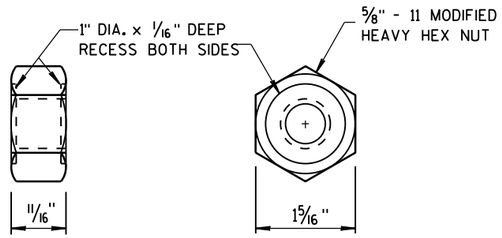


POST BOLT TABLE

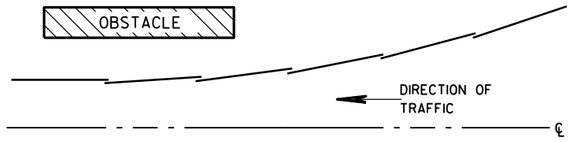
L	T (MIN.)
1 1/4"	1 1/8"
2"	1 3/4"
10"	4"
14"	4 1/16"
18"	4"
21"	4 1/16"
25"	4"



ALTERNATE BOLT HEAD

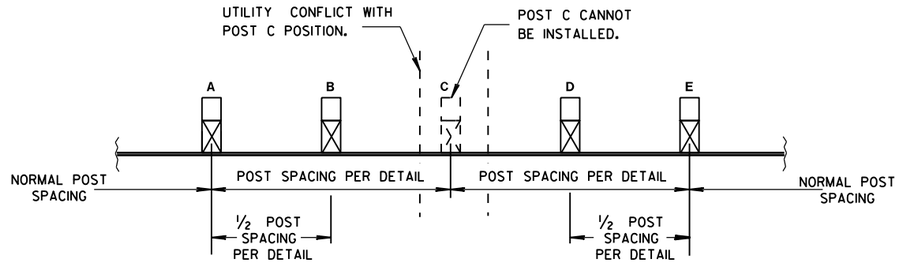


POST BOLT, SPLICE BOLT AND RECESS NUT

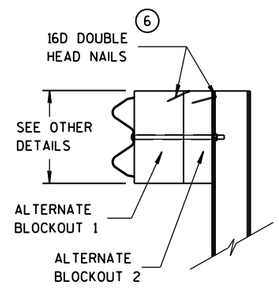


PLAN VIEW

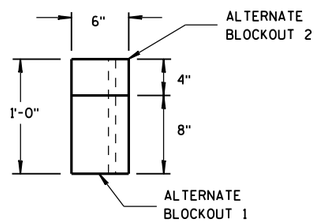
BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION



SIDE VIEW



TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2016 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 14 B 42-4c

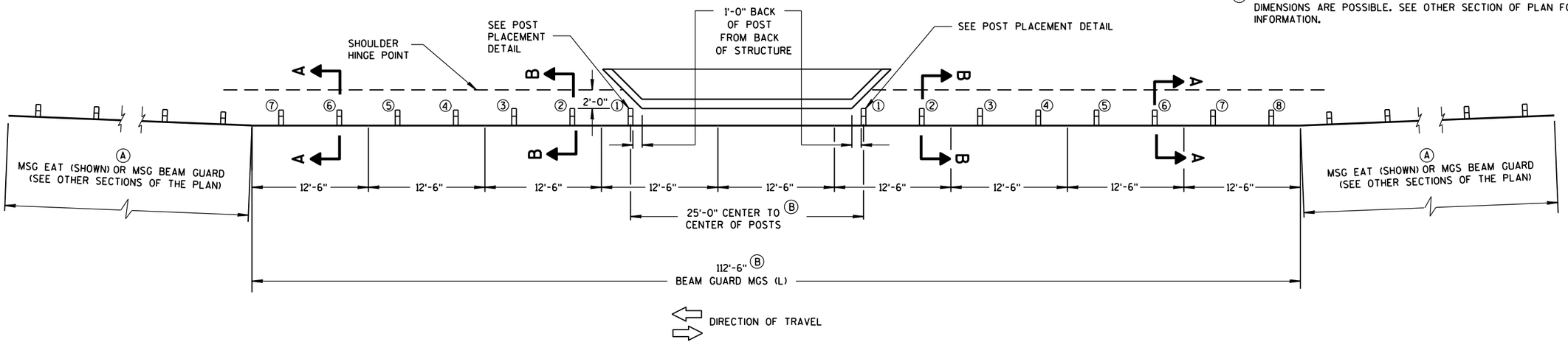
GENERAL NOTES

POSTS 1 THROUGH 3 ARE CRT POSTS.
ALL OTHER POSTS SHALL BE WOOD OR STEEL.

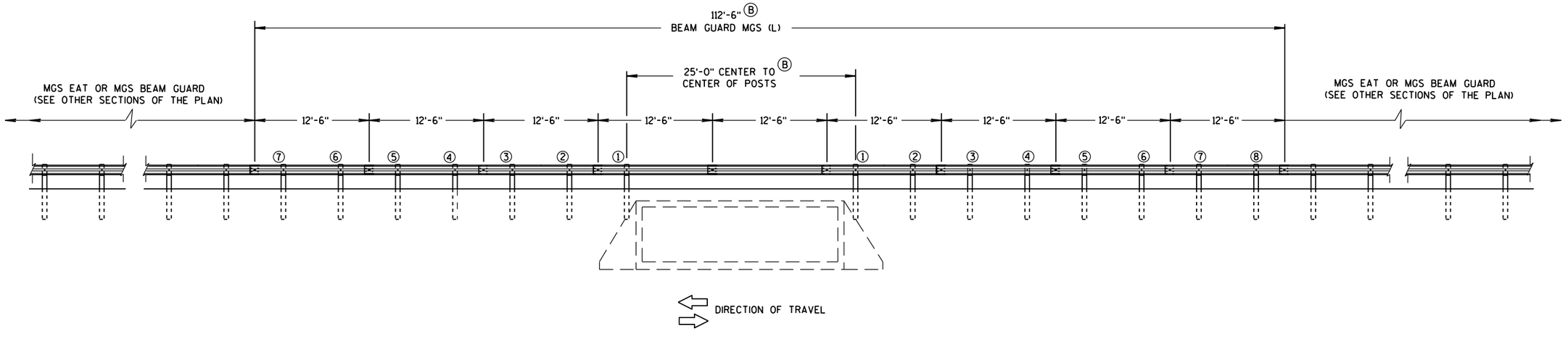
SEE SDD 14 B 42 FOR MORE DETAILS.

(A) FLARE FOR MGS EAT SHOWN. IF INSTALLING MGS NO FLARE NEEDED.

(B) VALUES SHOWN ON DRAWING REPRESENT THE MAXIMUM LENGTH. SHORTER DIMENSIONS ARE POSSIBLE. SEE OTHER SECTION OF PLAN FOR MORE INFORMATION.



PLAN VIEW



ELEVATION VIEW

MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L) TWO-WAY TRAFFIC

MIDWEST GUARDRAIL SYSTEM
LONG SPAN MGS (L)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 14 B 43-3a

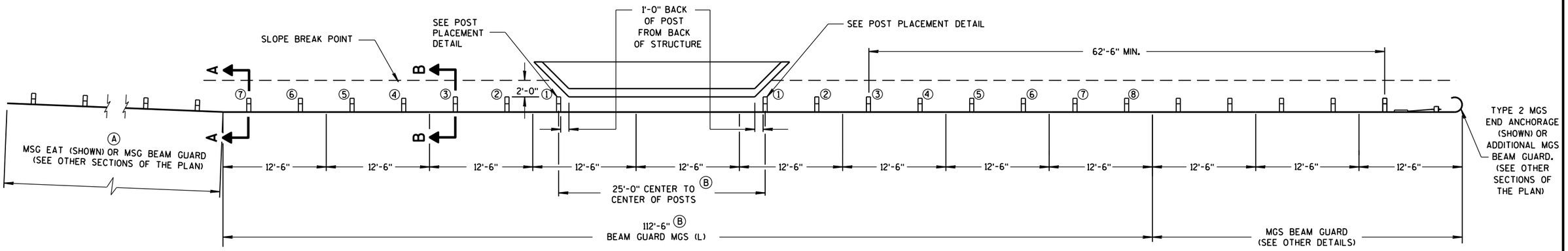
GENERAL NOTES

POSTS 1 THROUGH 3 ARE CRT POSTS.
ALL OTHER POSTS SHALL BE WOOD OR STEEL.

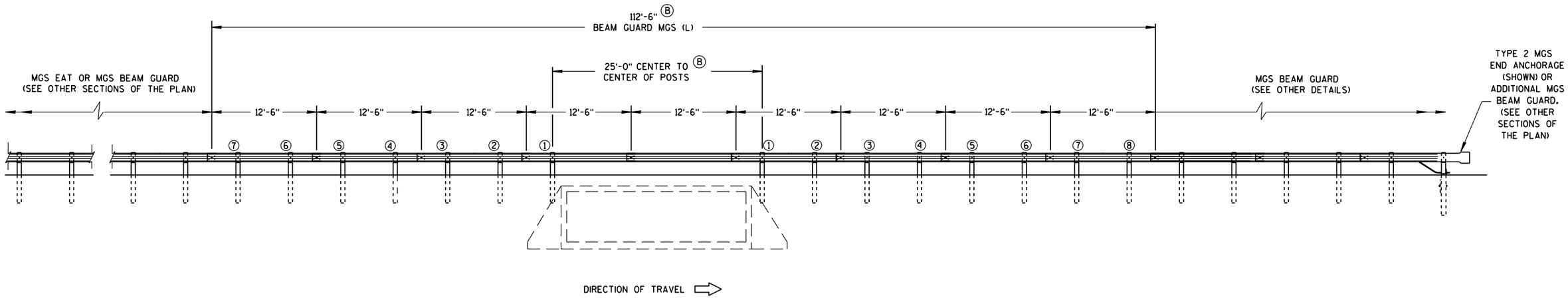
SEE SDD 14 B 42 FOR MORE DETAILS.

(A) FLARE FOR MGS EAT SHOWN. IF INSTALLING MGS NO FLARE NEEDED.

(B) VALUES SHOWN ON DRAWING REPRESENT THE MAXIMUM LENGTH. SHORTER DIMENSIONS ARE POSSIBLE. SEE OTHER SECTION OF PLAN FOR MORE INFORMATION.



PLAN VIEW



ELEVATION VIEW

MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L) ONE-WAY TRAFFIC

MIDWEST GUARDRAIL SYSTEM
LONG SPAN MGS (L)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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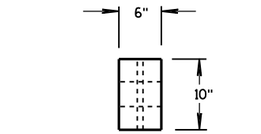
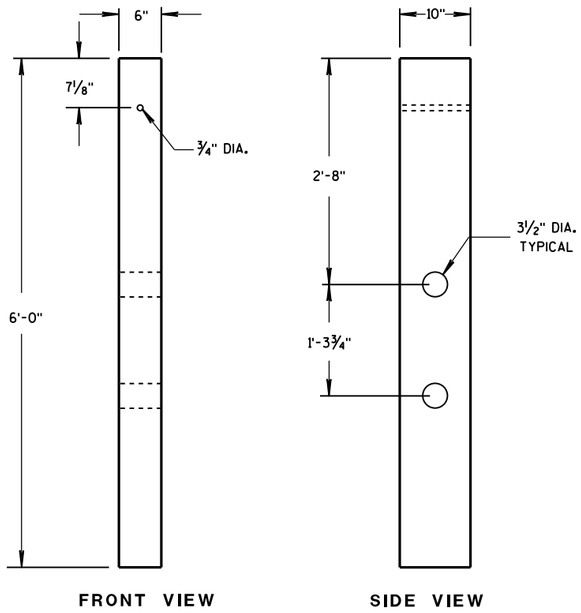
S.D.D. 14 B 43-3b

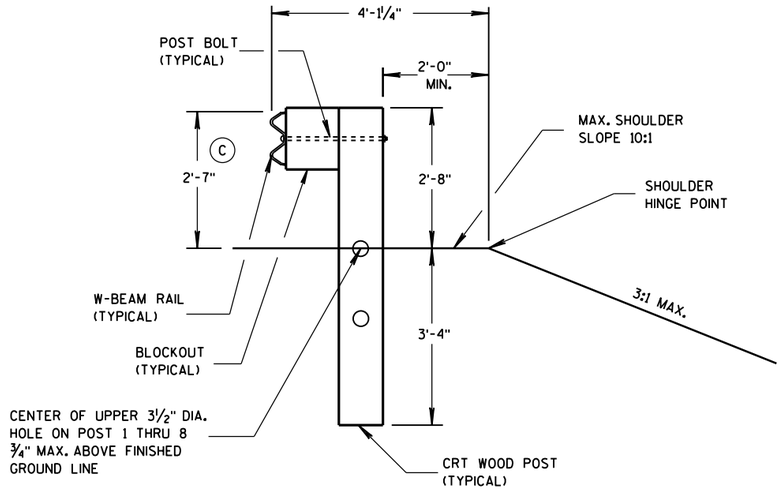


PLAN VIEW



FRONT VIEW SIDE VIEW

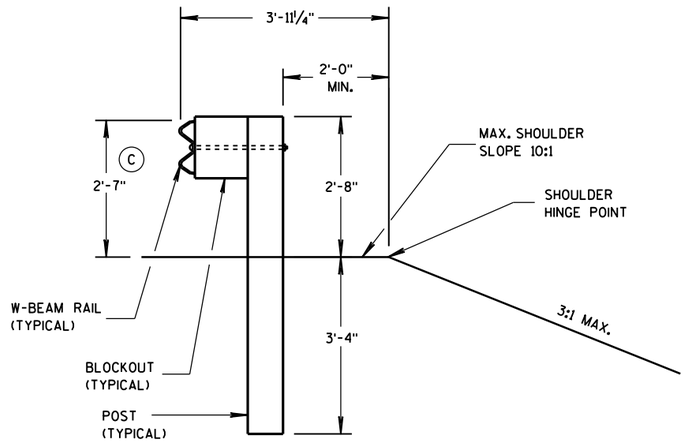
CRT WOOD POST



SECTION B-B

POSTS NO. 1-3

SEE OTHER DETAILS



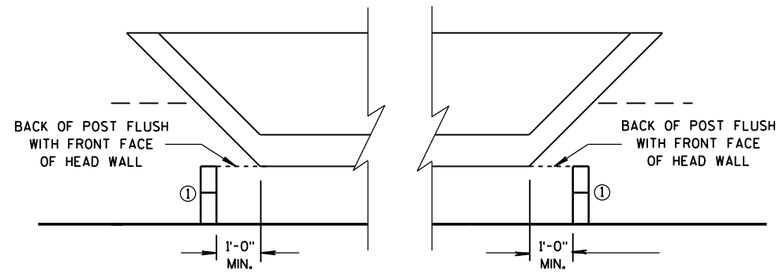
SECTION A-A

POSTS NO. 4-8

SEE OTHER DETAILS

GENERAL NOTES

(C) TOLERANCE FOR TOP OF W-BEAM RAIL IS ± 1".



POST PLACEMENT DETAIL

MIDWEST GUARDRAIL SYSTEM
LONG SPAN MGS (L)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

5/10/2013
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA

6
S.D.D. 14 B 43-3c

GENERAL NOTES

(A) THE SLOPE IN THE AREA BOUNDED BY THE GRADELINE, THE HINGE POINT LINE (HPL), AND THE CLEAR ZONE LIMITS (CZL) SHALL BE 4:1 OR FLATTER.

(B) AFTER FINAL ASSEMBLY, RECHECK CABLE TO BE SURE IT IS TAUT AND HAS NOT RELAXED.

(C) DIFFERENT MANUFACTURES REQUIRE DIFFERENT PERFORATED W-BEAM RAIL END PANELS. SEE MANUFACTURES INFORMATION.

(D) THE TOP OF THE STEEL TUBE ON POST 1 AND POST 2 SHALL NOT BE MORE THAN 3" ABOVE THE FINISH GROUND ELEVATION.

(F) ATTACH ALUMINUM SHEET TO E.A.T. HEAD USING 4 STAINLESS STEEL SELF-TAPPING SCREWS. ONE SCREW PER CORNER.

(G) ½" DIAMETER X 3" LONG LAG BOLT AND WASHER.

(H) HARDWARE VARIES BETWEEN DIFFERENT MANUFACTURES. SEE MANUFACTURE'S DRAWING FOR INFORMATION.

(I) DIMENSIONS MAY VARY. SEE MANUFACTURE'S INFORMATION.

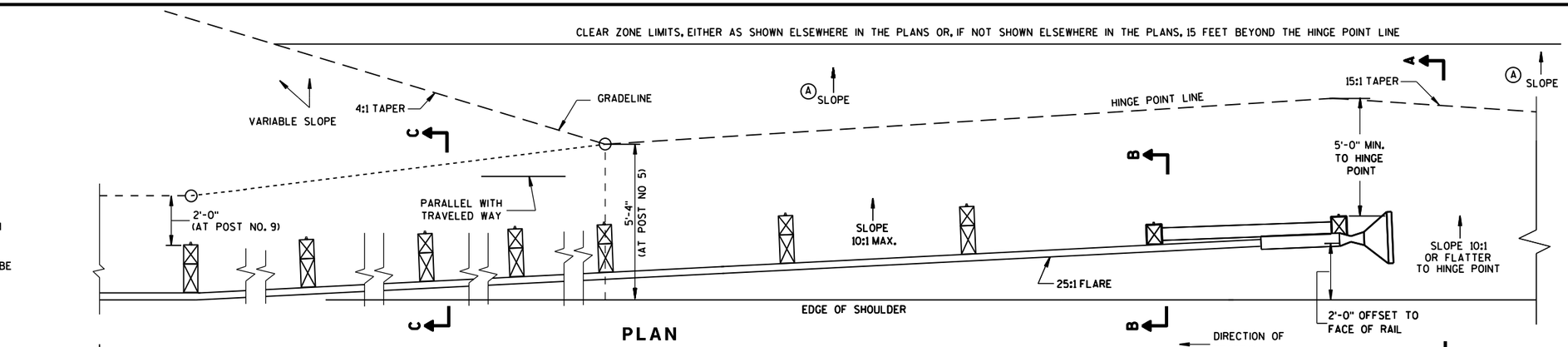
SEE SDD 14B42 FOR MORE INFORMATION.

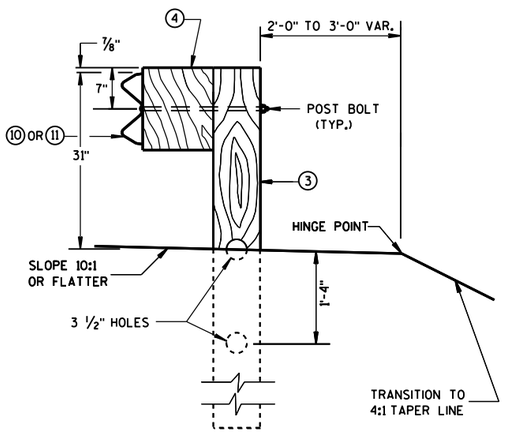
* DO NOT ATTACH BLOCKOUTS TO POSTS 1 AND 2.

DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

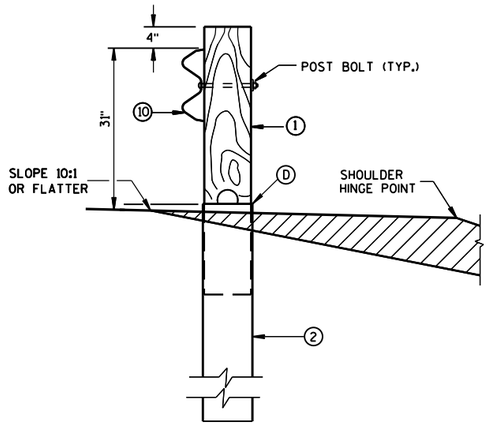
W-BEAM RAIL SPLICES ARE LOCATED AT POST NUMBER 3, AND BETWEEN POST 5 AND 6, BETWEEN POSTS 7 AND 8, AND MIDDLE OF THE SPAN AFTER POST 9.

THE CENTER OF THE UPPER 3½" DIAMETER HOLE ON POST NUMBER 3 THROUGH POST 9 IS TO BE FLUSH WITH THE GROUND LINE UP TO A MAXIMUM OF 2" ABOVE GROUND LINE.

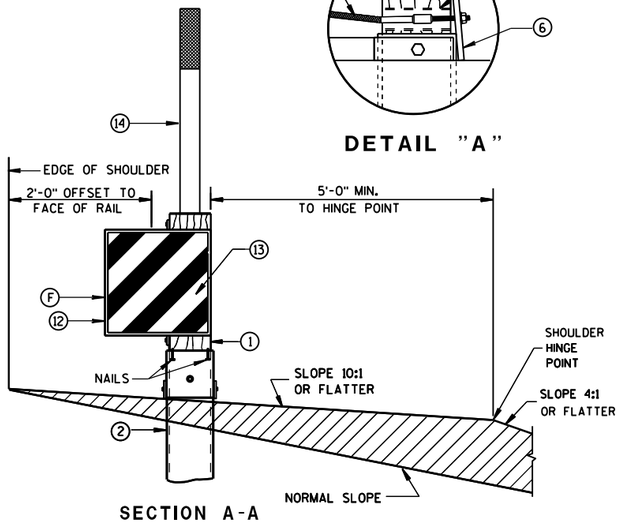




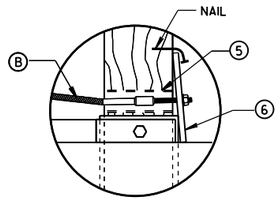
SECTION C-C
TYPICAL AT POST NOS. 3-9



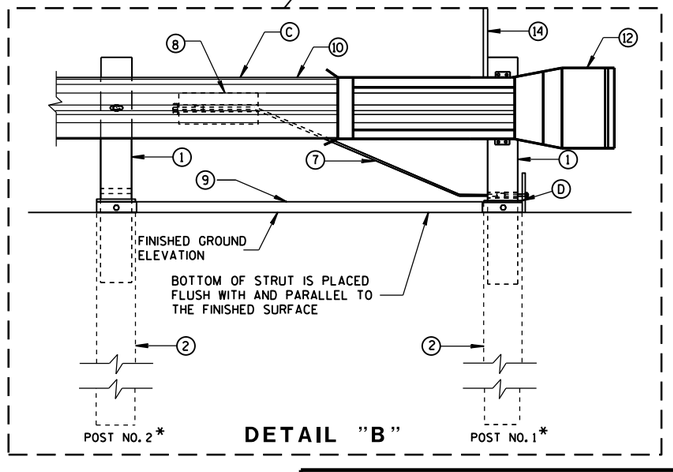
SECTION B-B
TYPICAL AT POST NO. 2*



SECTION A-A
TYPICAL AT POST NO. 1*



DETAIL "A"

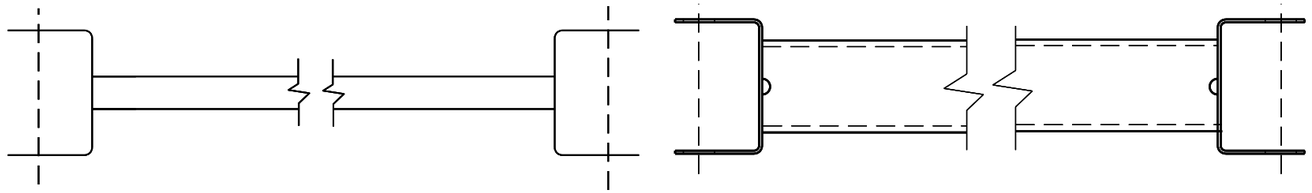


DETAIL "B"

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

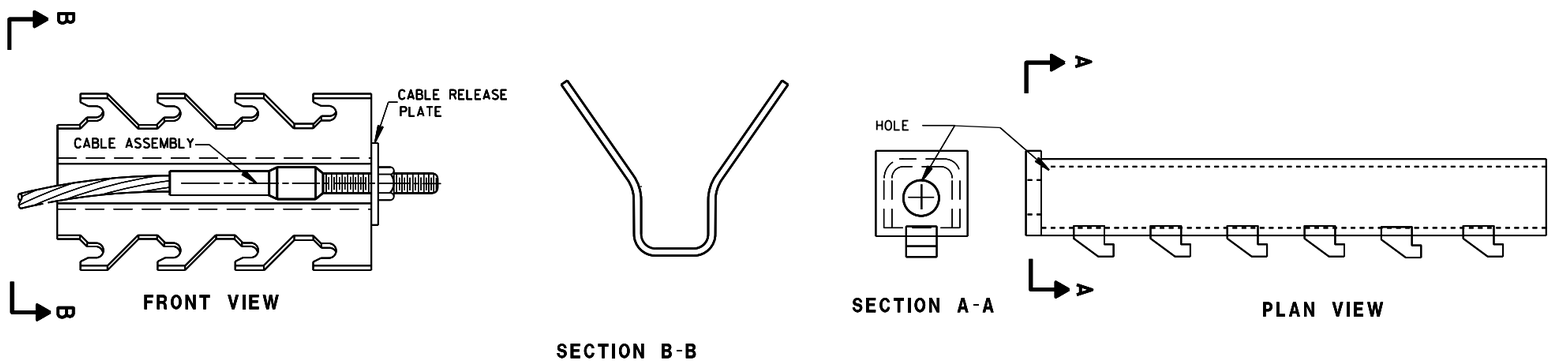
S.D.D. 14 B 44-2a



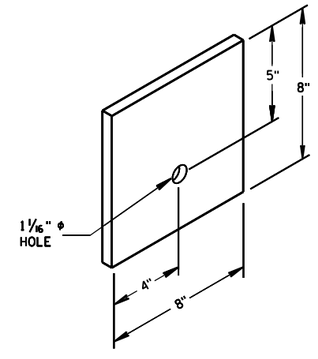
GENERIC GROUND STRUT (9) (H)

BILL OF MATERIALS

PART NO.	DESCRIPTION MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUFACTURER'S DETAILS FOR MORE INFORMATION.
(1)	WOOD BREAKAWAY POST
(2)	6" X 8" X 0.188", 6'-0" LONG FOUNDATION TUBE AT POSTS 1 AND 2
(3)	WOOD CRT
(4)	WOOD BLOCKOUT
(5)	PIPE SLEEVE
(6)	BEARING PLATE
(7)	BCT CABLE ASSEMBLY
(8)	ANCHOR CABLE BOX
(9)	GROUND STRUT
(10)	PERFORATED W-BEAM RAIL END PANEL, 12'-6" LONG.
(11)	STANDARD W-BEAM RAIL. MULTIPLE SECTIONS REQUIRED. SECTIONS VARY IN LENGTH.
(12)	END SECTION EAT
(13)	0.040" ALUMINUM SHEET WITH REFLECTIVE SHEETING TYPE F PER SECTION 637 OF THE STANDARD SPECIFICATIONS
(14)	EAT MARKER POST - YELLOW (SEE APPROVED PRODUCTS LIST)



GENERIC ANCHOR CABLE BOX (8) (H)



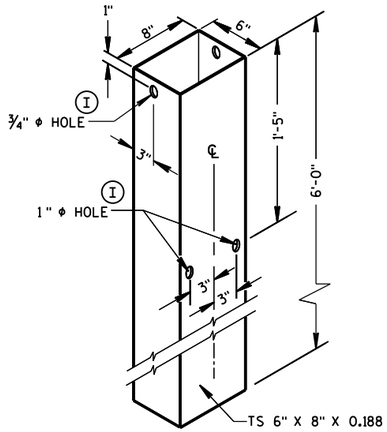
BEARING PLATE (6)

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

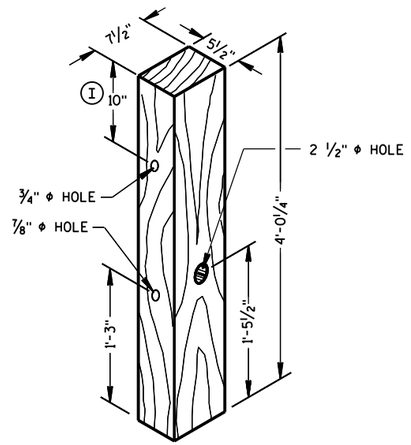
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 14 B 44-2b

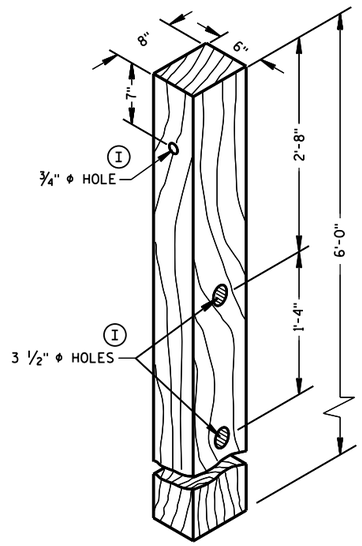


FOUNDATION TUBE (2)



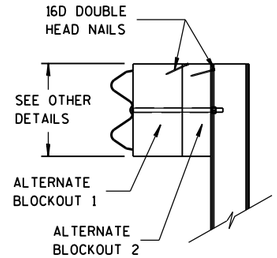
POSTS NUMBER 1 AND 2

WOOD BREAKAWAY POST (1)

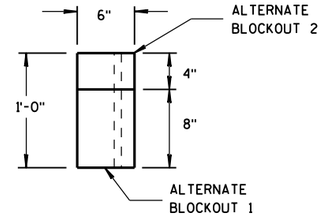


POSTS NUMBER 3-9

WOOD CRT POST (3)

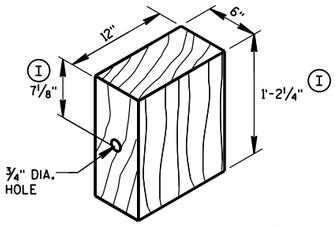


SIDE VIEW



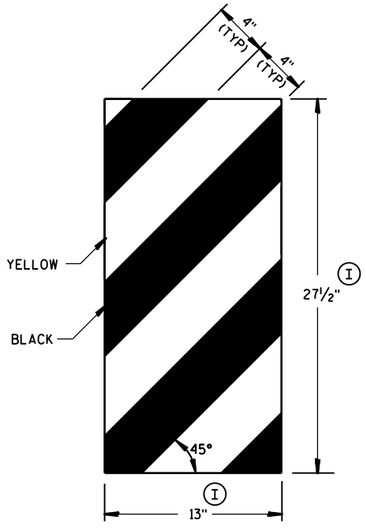
TOP VIEW

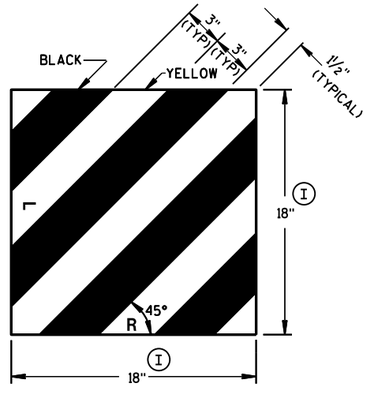
ALTERNATE WOOD BLOCKOUT DETAIL



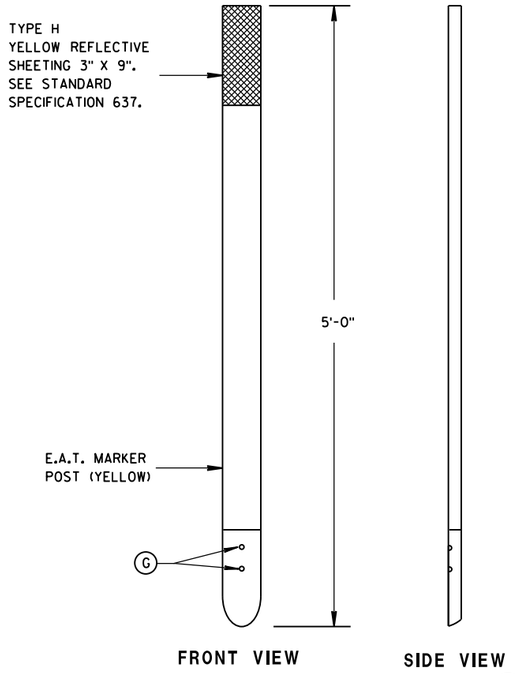
WOOD BLOCKOUT (4)

REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2





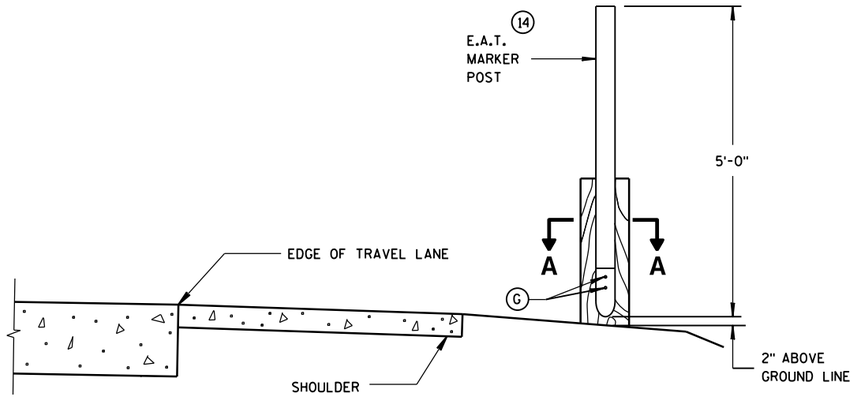
GENERIC REFLECTIVE SHEETING (13) (H)



FRONT VIEW

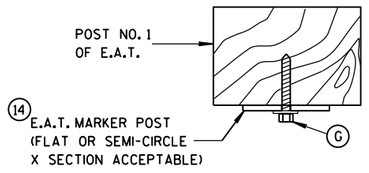
SIDE VIEW

E.A.T. MARKER POST (14)



TYPICAL INSTALLATION OF E.A.T. MARKER POST BACKSIDE OF POST NO. 1

(E.A.T. AND RAIL REMOVED FOR CLARITY)



SECTION A-A

MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

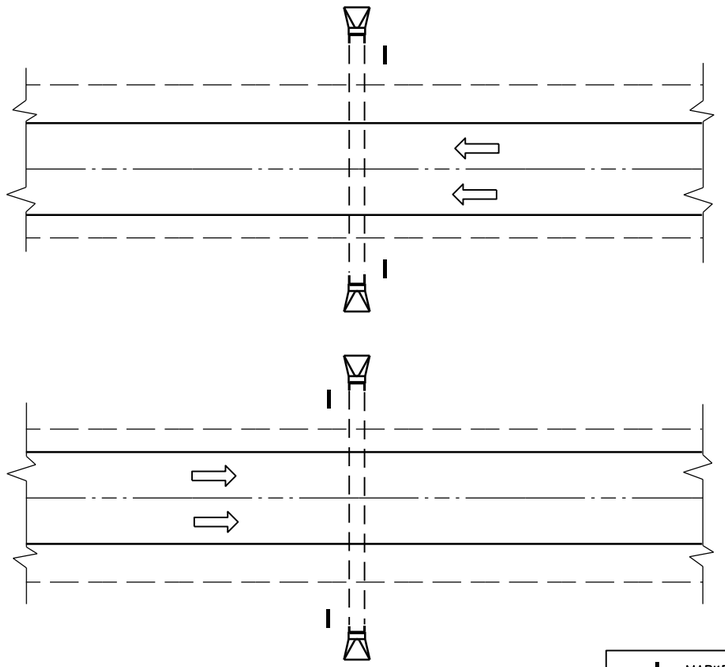
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2014
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

FHWA

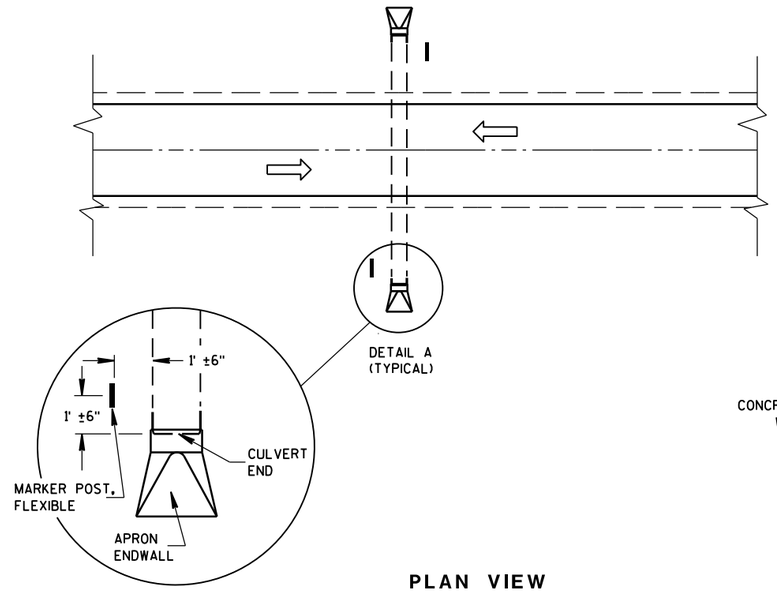
6

S.D.D. 14 B 44-2c



PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

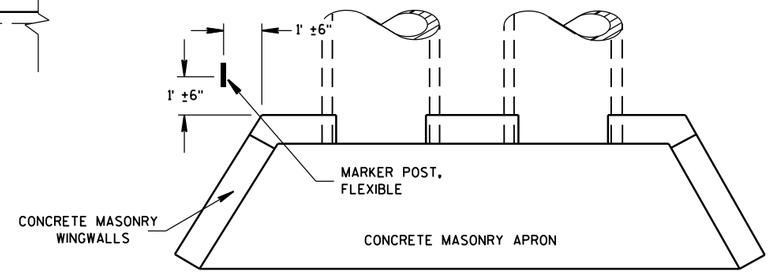
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

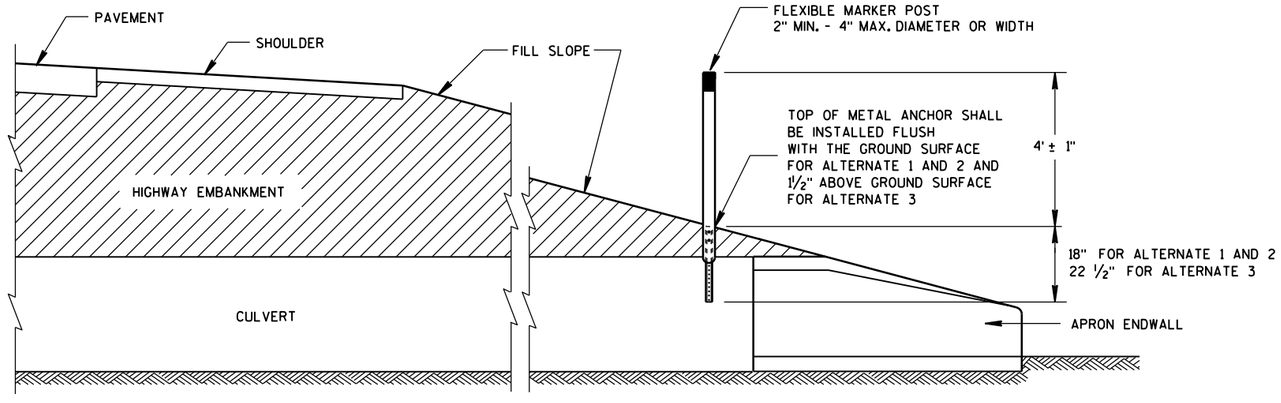
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



PLAN VIEW

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

FLEXIBLE MARKER POST LOCATION



CROSS SECTION

FLEXIBLE MARKER POST

FLEXIBLE MARKER POST FOR CULVERT END

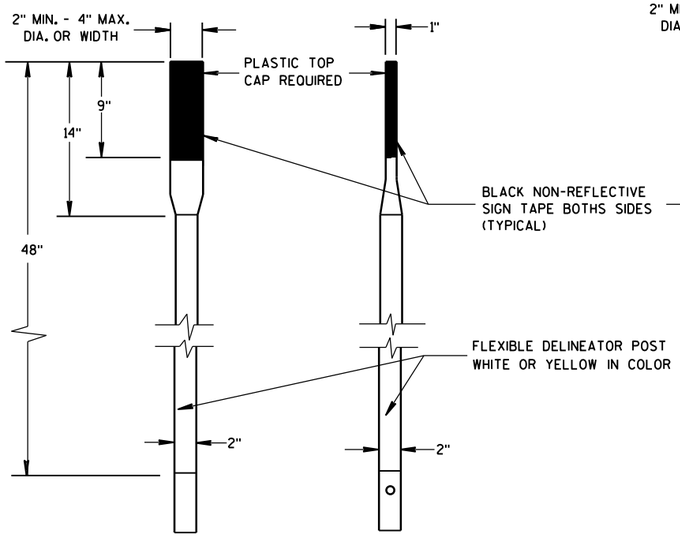
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

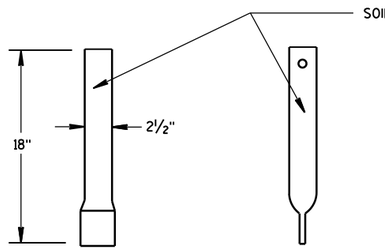
6

S.D.D. 15 A 3-2a

6

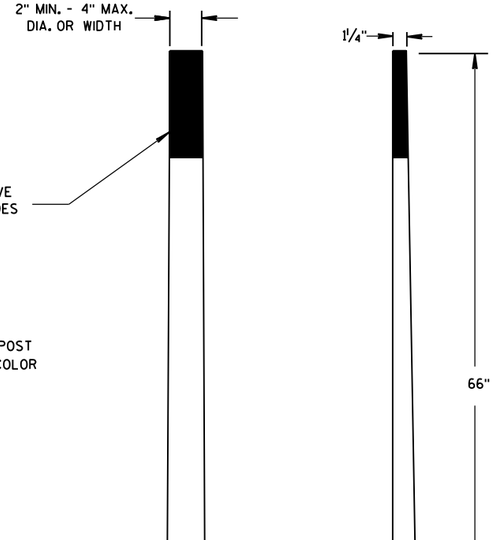
S.D.D. 15 A 3-2a





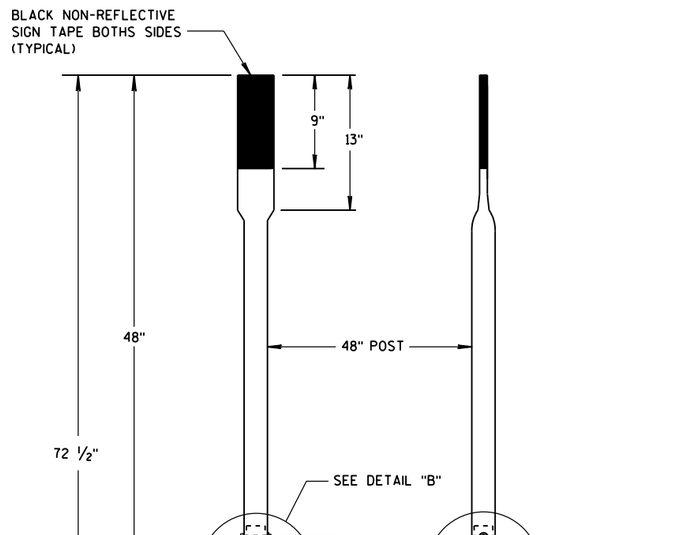
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

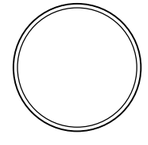
ALTERNATE 2



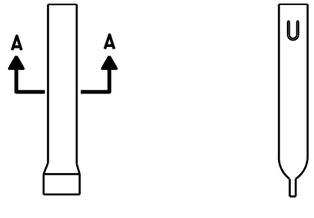
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POSTS

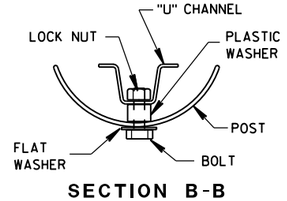


SECTION A-A

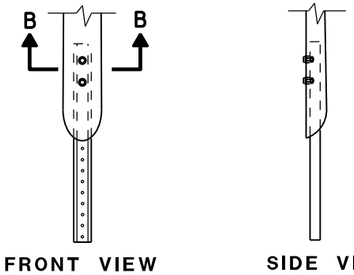


FRONT VIEW SIDE VIEW

ALTERNATE 1

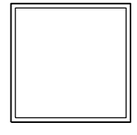


SECTION B-B

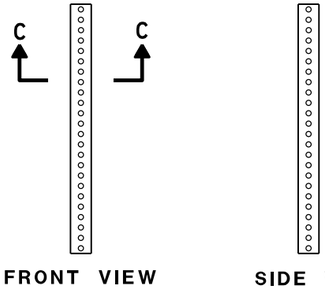


FRONT VIEW SIDE VIEW

ALTERNATE 2



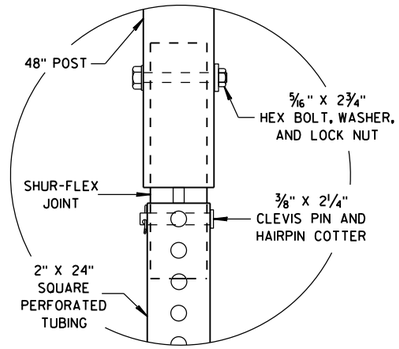
SECTION C-C



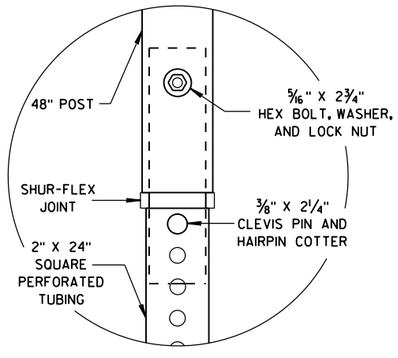
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POST ANCHORS



DETAIL B



DETAIL C

FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/1/2012 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

6

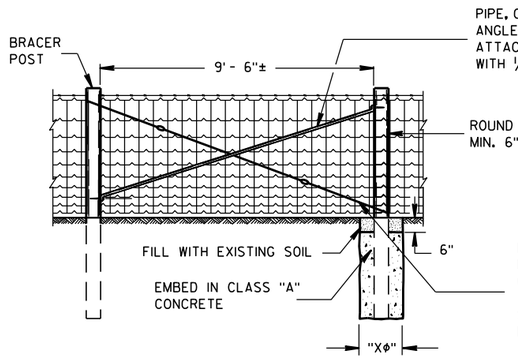
S.D.D. 15 A 3-2b

6

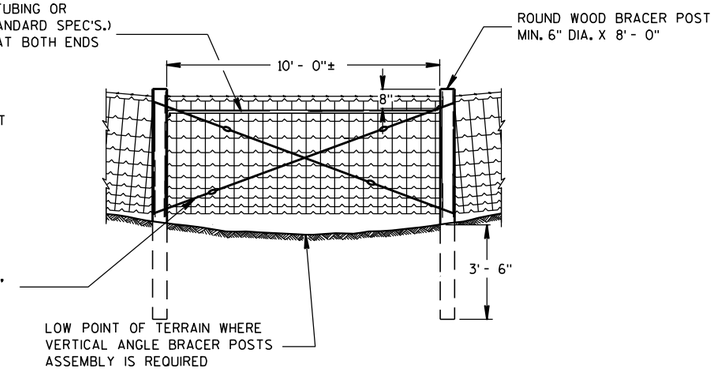
S.D.D. 15 A 3-2b

NOTE: PULL OR STRETCHER POST ASSEMBLIES SHALL BE PLACED MIDWAY BETWEEN END POSTS AND CORNER POSTS WHERE A RUN OF FENCE EXCEEDS 660' BUT IS LESS THAN 1,320'. FOR RUNS OF FENCE IN EXCESS OF 1,320' MAXIMUM SPACING OF PULL OR STRETCHER POST ASSEMBLIES SHALL BE 660'± C-C.

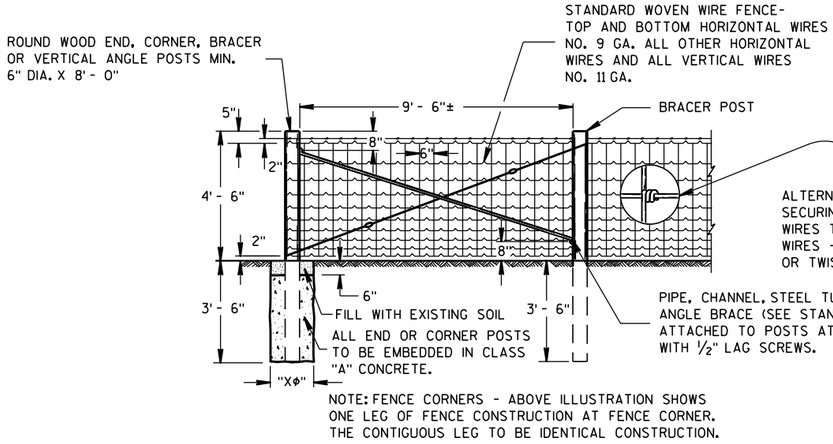
ILLUSTRATION SHOWS POSITION OF STANDARD STEEL BRACE, DOUBLE STRAND GALVANIZED WIRE, AND THE POST TO BE EMBEDDED IN CONCRETE WHEN WIRE FENCE IS INSTALLED FROM LEFT TO RIGHT. THE BRACES SHALL BE POSITIONED ON THE OPPOSITE DIAGONALS AND THE OPPOSITE POST SHALL BE EMBEDDED IN CONCRETE WHEN WIRE FENCE IS INSTALLED FROM RIGHT TO LEFT.



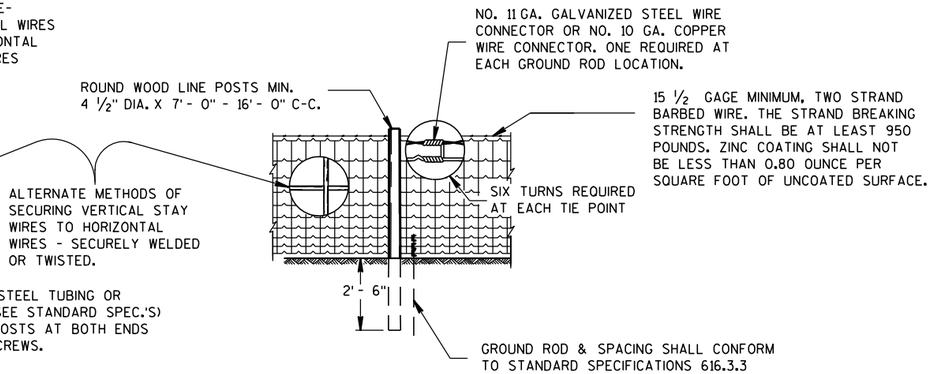
PULL OR STRETCHER POSTS ASSEMBLY



VERTICAL ANGLE BRACER POSTS ASSEMBLY



END OR CORNER POSTS ASSEMBLY



LINE FENCE CONSTRUCTION

GENERAL NOTES

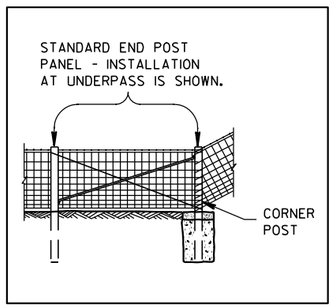
"XΦ" = DIAMETER OF THE POST PLUS 12".

FENCE STAPLES SHOULD NEVER BE DRIVEN VERTICALLY INTO WOOD POSTS (WITH BOTH LEGS PARALLEL WITH THE WOOD GRAIN). DOING SO CAN SEPARATE THE GRAIN AND SIGNIFICANTLY REDUCE THE HOLDING POWER. ROTATING THE STAPLES SLIGHTLY OFF VERTICAL STRADDLES THE GRAIN AND PROVIDES MORE RESISTANCE TO PULL-OUT.

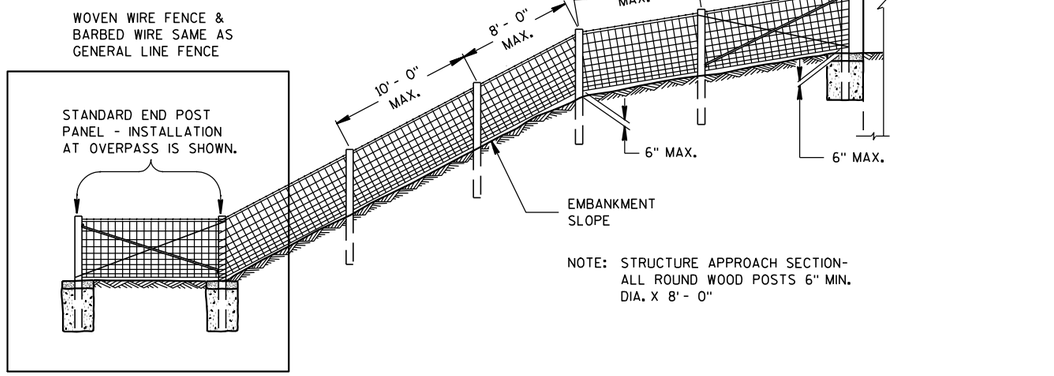
DO NOT STAPLE WIRE TIGHT TO THE LINE POSTS. ALLOW MOVEMENT OF WIRE FOR EXPANSION AND CONTRACTION. STAPLE ARRANGEMENT SHALL BE THE SAME FOR ALL OTHER POSTS EXCEPT THAT THEY SHALL BE DRIVEN TIGHT TO POSTS. ALL STAPLES SHALL BE 2" X 9 GAGE AND SHALL BE MANUFACTURED FROM GALVANIZED WIRE OR HOT DIP GALVANIZED AFTER FORMING. STAPLES SHALL HAVE SLASH-CUT POINTS.

FENCE SHALL BE LOCATED 3'-0" INSIDE THE RIGHT OF WAY LINE UNLESS OTHERWISE INDICATED ON THE PLANS.

GENERAL ROADSIDE VIEW OF WOVEN WIRE FENCE



ALTERNATE FENCE DESIGN AT STRUCTURE



FENCE DESIGN AT STRUCTURE APPROACH

FENCE WOVEN WIRE

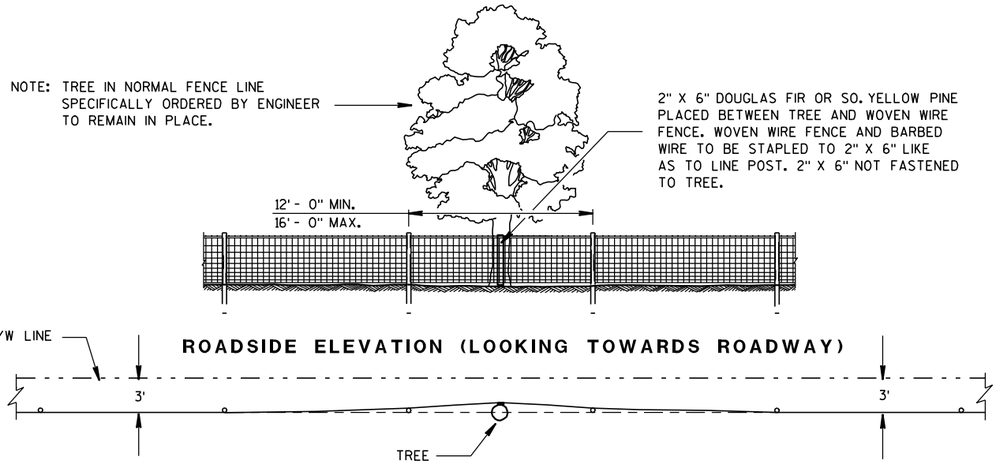
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

S.D.D. 15 B 1-8a

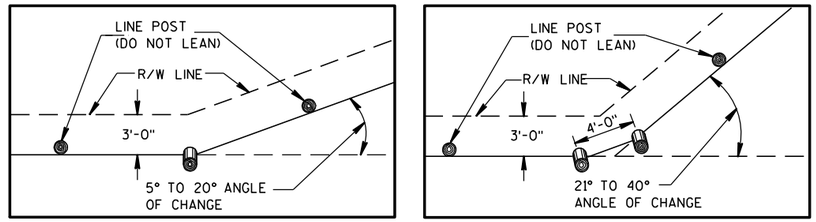
6

S.D.D. 15 B 1-8a



PLAN VIEW

FENCE DESIGN AT TREES REMAINING IN NORMAL FENCE LINE



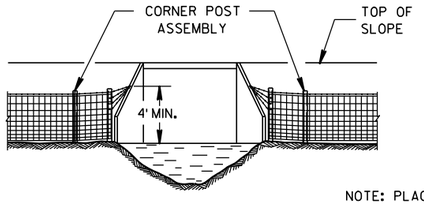
PLAN VIEW
SINGLE POST CORNER

PLAN VIEW
DOUBLE POST CORNER

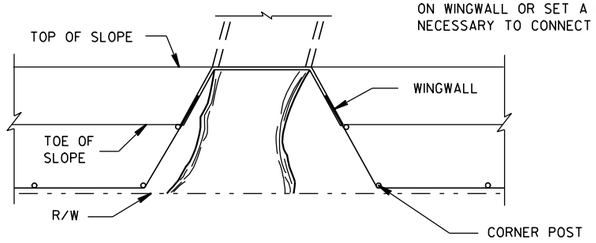
RIGHT OF WAY LINE CHANGE 40° AND LESS

NOTE: SINGLE AND DOUBLE POSTS SHALL BE A MIN. 6" DIA. X 8'-0" WITH A LEAN OF 4" TOWARD THE OUTSIDE OF THE CURVE.

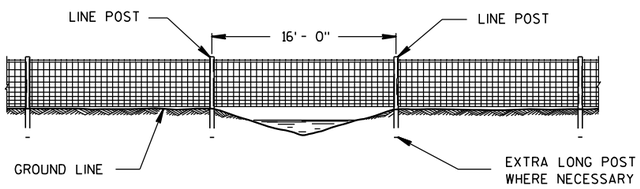
WHEN THE RIGHT OF WAY LINE CHANGE IS MORE THAN 40° USE THE CORNER OR STRETCHER POSTS ASSEMBLY.



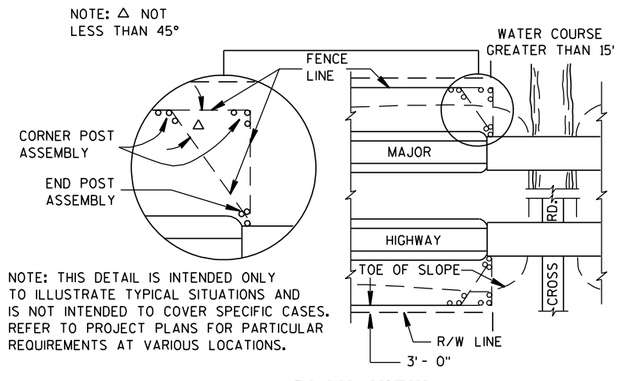
NOTE: PLACE A MINIMUM OF 4 STRANDS OF BARBED WIRE, 6" MAXIMUM CENTERS IN FAN SHAPE CONNECTED TO AN EYE BOLT ON WINGWALL OR SET A LONE POST WHEN NECESSARY TO CONNECT BARBED WIRE.



FENCE INSTALLATION TO WINGWALLS

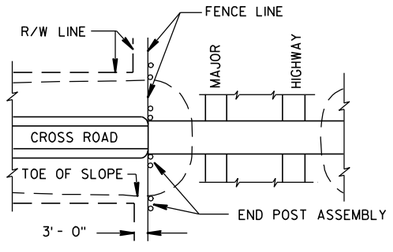


FENCE CONSTRUCTION OVER STREAM COURSES OF 15 FT. OR LESS IN WIDTH



PLAN VIEW

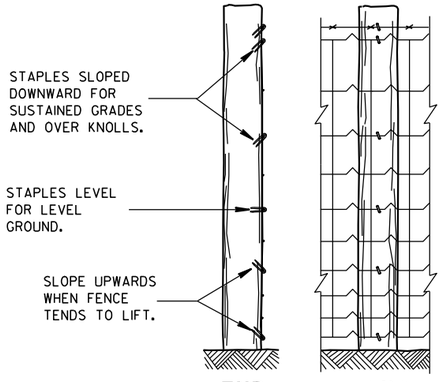
MAJOR HIGHWAY OVERPASS OR STREAM COURSE CROSSING OF GREATER THAN 15 FT. IN WIDTH



PLAN VIEW

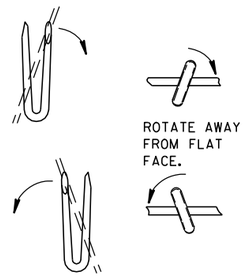
MAJOR HIGHWAY UNDERPASS

NOTE: WHEN POSTS ARE DRIVEN THE SMALL END SHALL BE DOWN.



END ELEVATION **FARM SIDE ELEVATION**

FENCE MOUNTING DETAIL



LINE POST

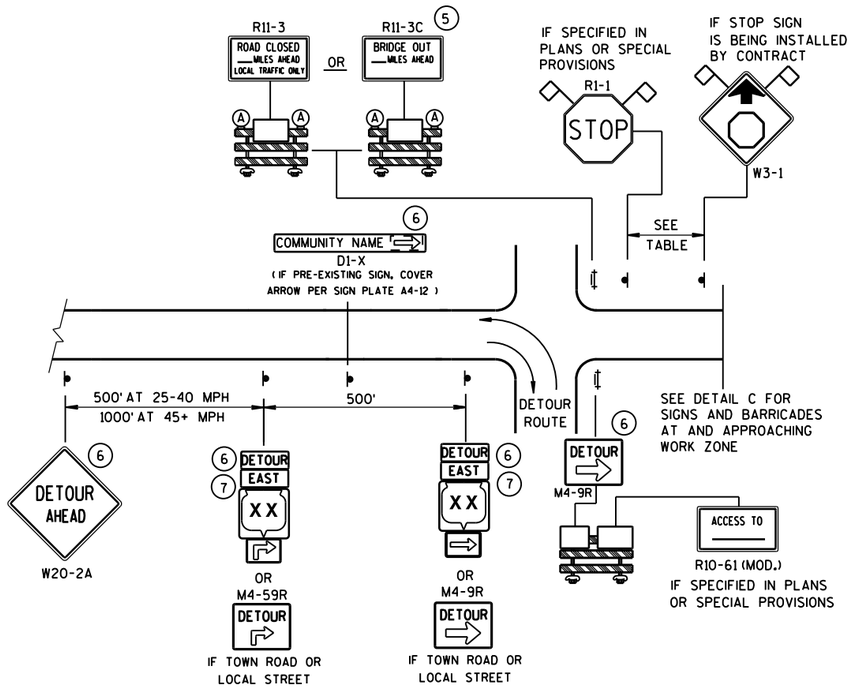
FENCE LOCATION AT STRUCTURES

FENCE WOVEN WIRE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

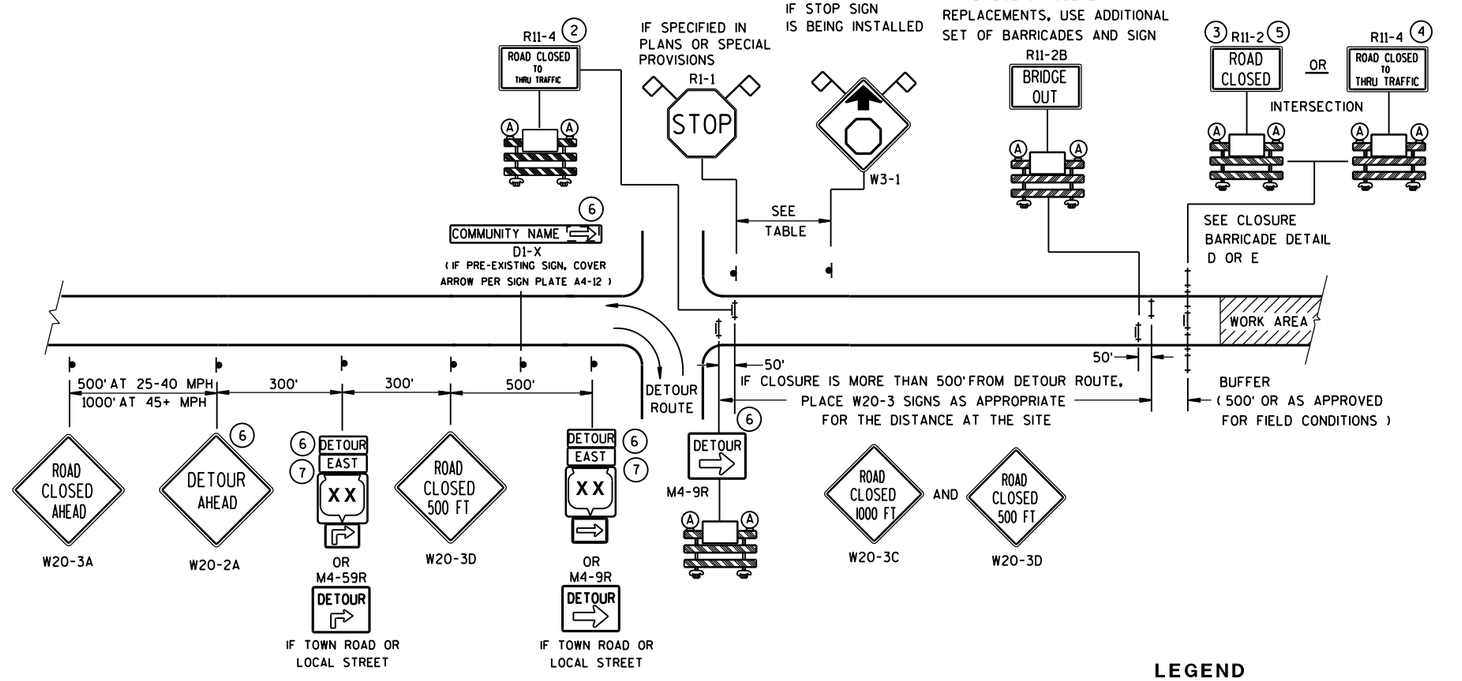
APPROVED
4/4/2008 — DATE
/S/ Jerry H. ---- — ROADWAY STANDARDS ENGINEER
FHWA

S.D.D. 15 B 1-8b
6



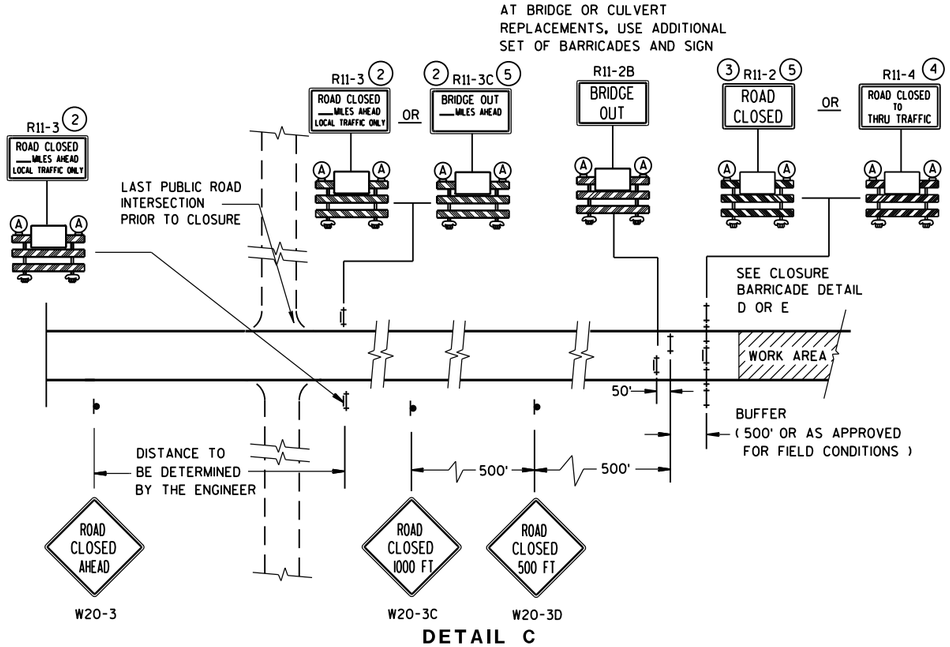
DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE GREATER THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE LESS THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR

SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (FT)
25	200
30	200
35	350
40	350
45	500
50	550
55	750

SEE SDD 15C2-SHEET "**b**"
FOR GENERAL NOTES
AND FOOTNOTES (1) THROUGH (7)

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA
- DETOUR / EAST — M4-8 / M3-X
- XX — M1-4; COUNTY XX — M1-5A; XX — M1-6
- M05-1 OR M06-1
- FLAGS, 16" X 16" MIN., (ORANGE)

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

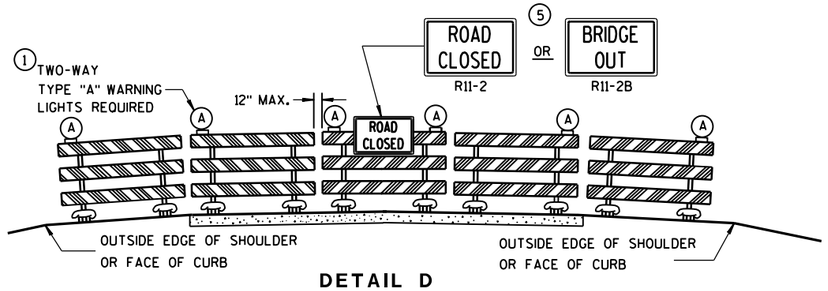
Sept. 2015 — DATE
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER
FHWA

6

S.D.D. 15 C 2-6a

6

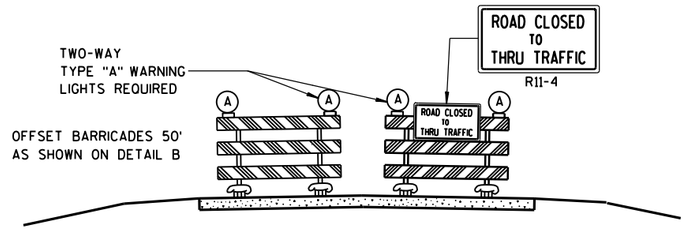
S.D.D. 15 C 2-6a



DETAIL D

ROAD CLOSURE BARRICADE DETAIL

APPROACH VIEW



DETAIL E

LANE CLOSURE BARRICADE DETAIL

APPROACH VIEW

SEE SDD 15C2-SHEET "**a**" FOR LEGEND

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL D FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3, M4-9, R11-4 AND R10-61 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

"WO AND "MO" SIGNS ARE THE SAME AS "W" AND "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
- R11-2 SHALL BE 48" X 30".
- R11-3, R11-4 AND R10-61 SHALL BE 60" X 30".
- M4-9 SHALL BE 30" X 24".
- M3-X SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS.)
- M4-8 SHALL BE 24" X 12". (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS.)
- M1-4, M1-5A, AND M1-6 SHALL BE 24" X 24". (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS.)
- M05-1 AND M06-1 SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS.)
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1-1 SHALL BE 36" X 36".

(1) TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8-FOOT LIGHT SPACING).

(2) THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT INTERSECTION.

(3) FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL D.

(4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE LANE CLOSURE BARRICADE DETAIL E.

(5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11-2 AND R11-3 SIGNS.

(6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.

(7) "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

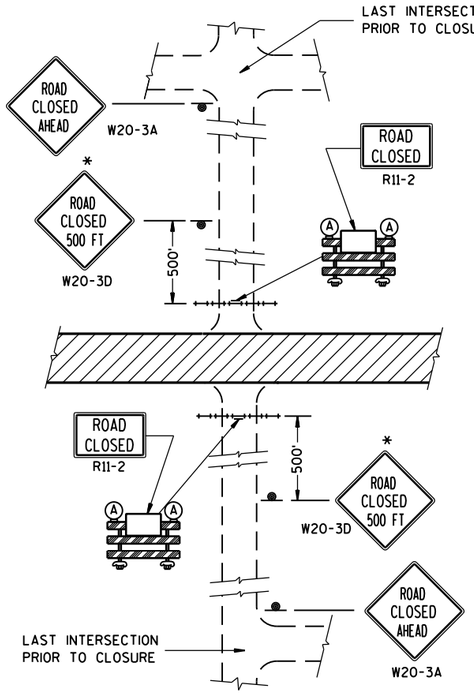
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

Sept. 2015 — DATE

/S/ Peter Amakobe Atepe
STATEWIDE WORK ZO SAFETY ENGI — FHWA

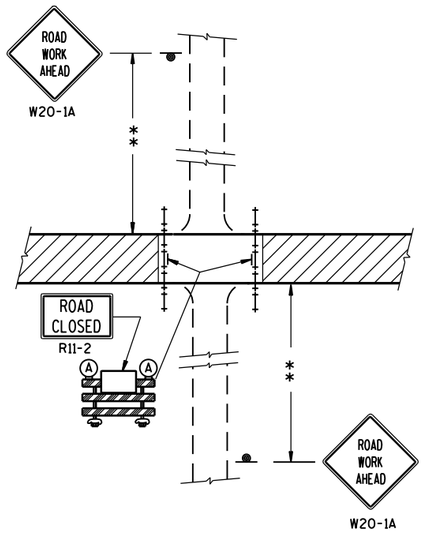
6

S.D.D. 15 C 2-6b



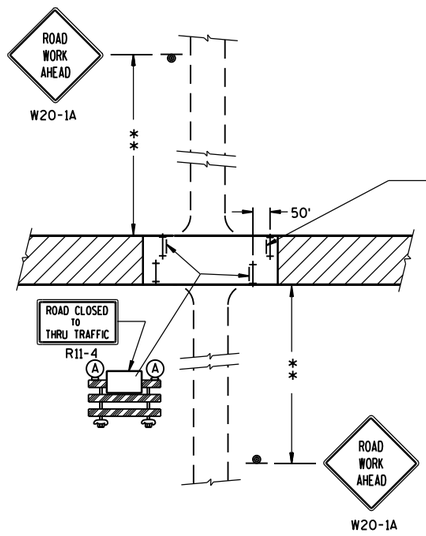
DETAIL 1

(NO ACCESS TO PROJECT)



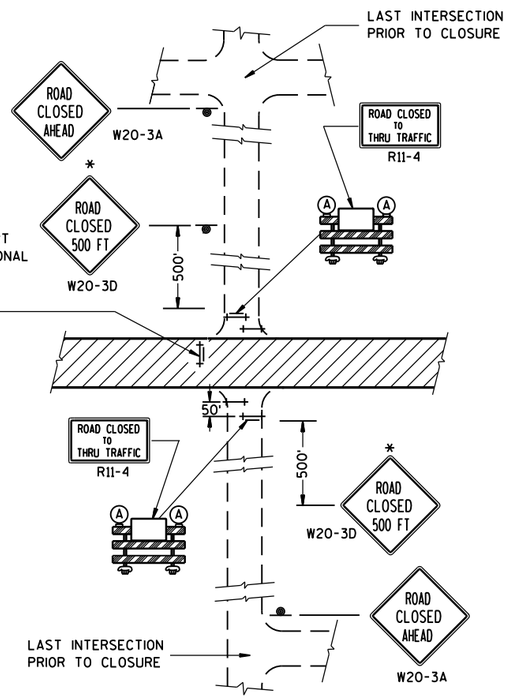
DETAIL 2

(PUBLIC CROSS-TRAFFIC MAINTAINED. NO ACCESS TO PROJECT).



DETAIL 3

(PUBLIC CROSS-TRAFFIC MAINTAINED. CONTRACTOR, LOCAL BUSINESS AND RESIDENT ACCESS).



DETAIL 4

(CONTRACTOR, LOCAL BUSINESS AND RESIDENT ACCESS TO PROJECT)

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL D FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3 AND R11-4 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
R11-2 SHALL BE 48" X 30".
R11-4 AND R11-3 SHALL BE 60" X 30".

*OMIT THE "ROAD CLOSED 500 FT." SIGN IF THE LAST INTERSECTION IS 500 FT. OR LESS FROM THE WORK ZONE.

**500' MAX. OR AT LAST INTERSECTION WHICHEVER IS CLOSER.

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA

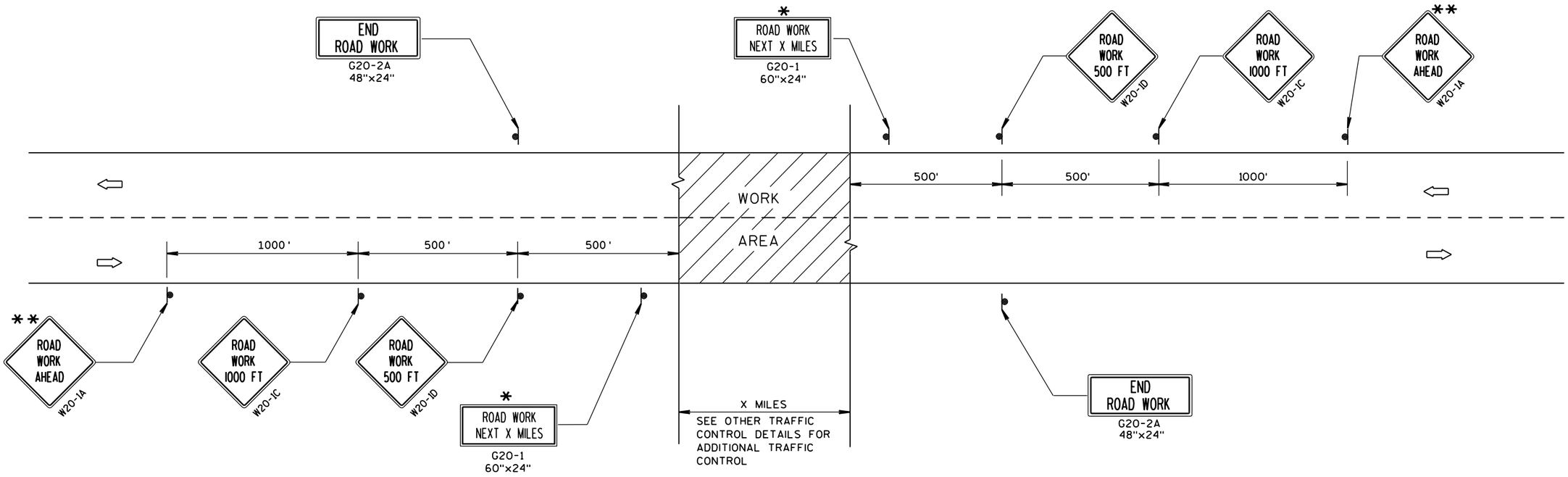
BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2015 — DATE
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZO[illegible]FIC SAFETY ENGI[illegible]
FHWA

6

S.D.D. 15 C 3-3



TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

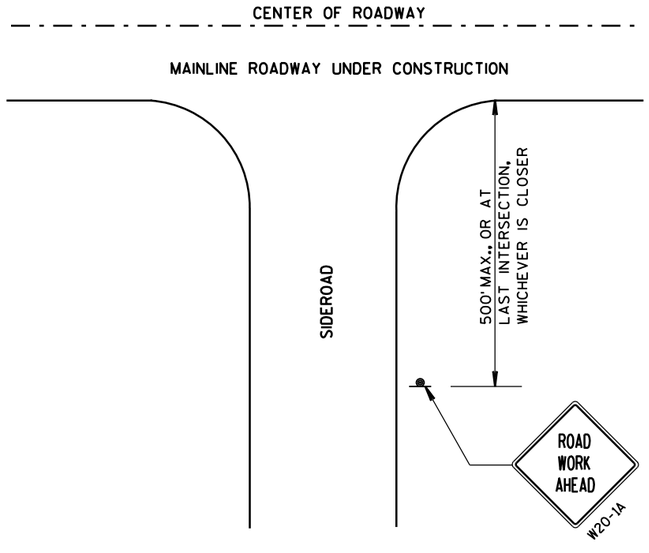
ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

* OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

** PLACE ADDITIONAL W20-1A "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.



LEGEND

- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

Sept. 2015 — DATE

/S/ Peter Amakobe Atepe — STATEWIDE WORK ZONE SAFETY ENGINEER

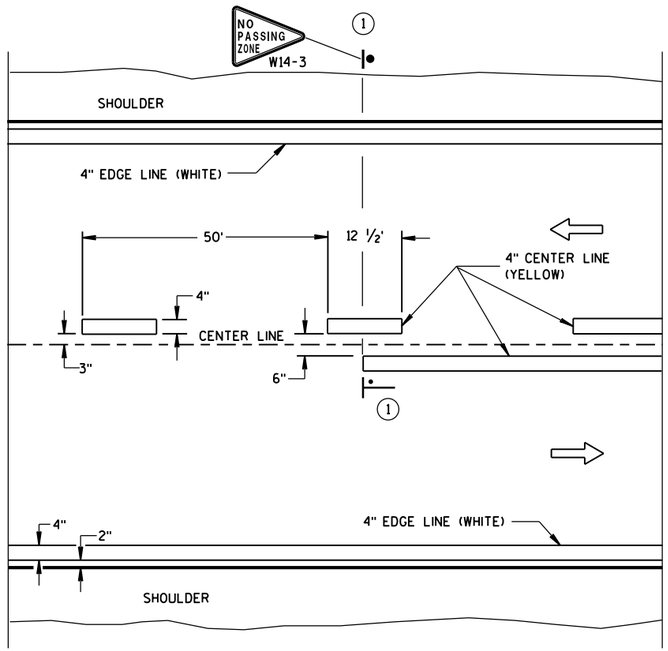
FHWA

6

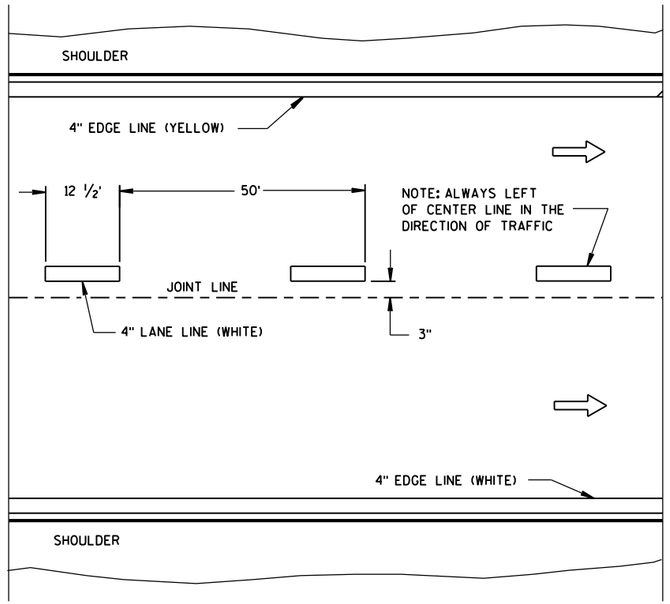
S.D.D. 15 C 4-3

6

S.D.D. 15 C 4-3



TWO WAY TRAFFIC



ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

(1) NO PASSING ZONE W14-3 SIGN SHALL BE LOCATED WITHIN 50 FEET OF THE "T" MARKING.

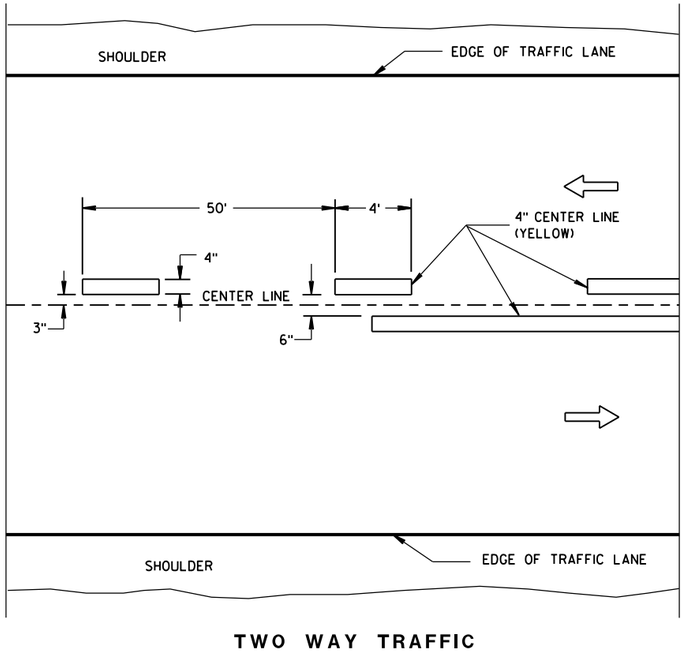
NOTE

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

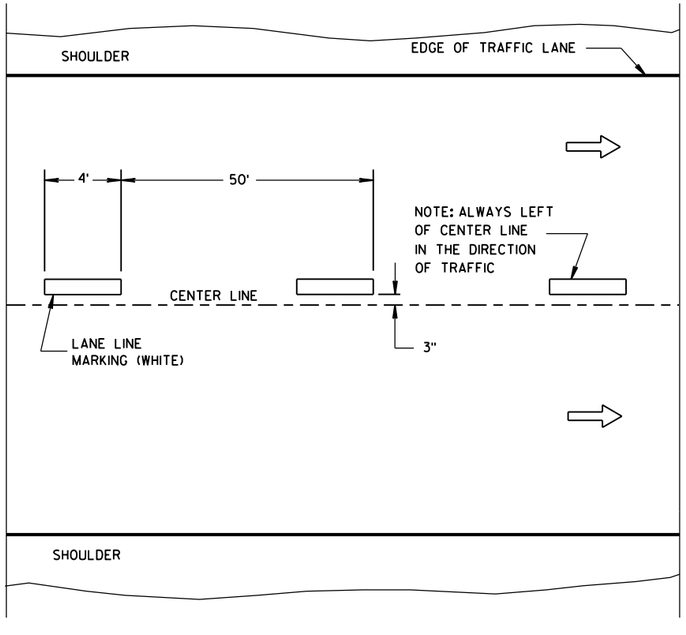
LEGEND

"T" MARKING

POST MOUNTED SIGN



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY PAVEMENT MARKING

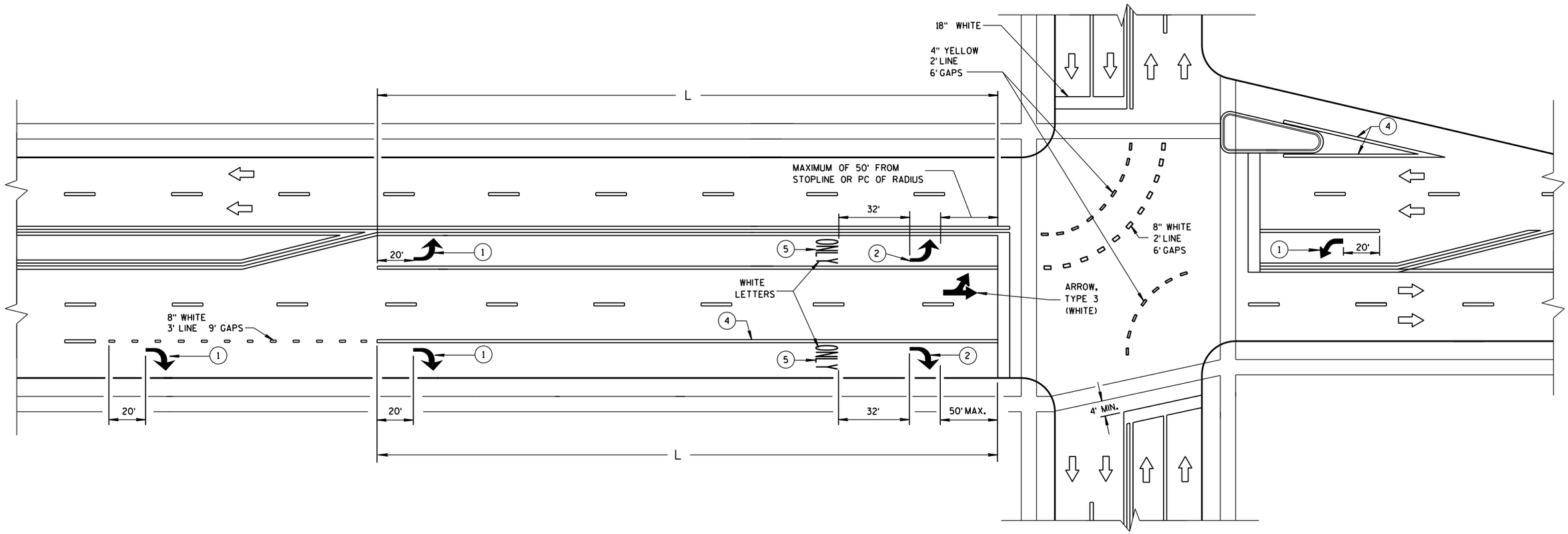
LONGITUDINAL MARKING (MAINLINE)

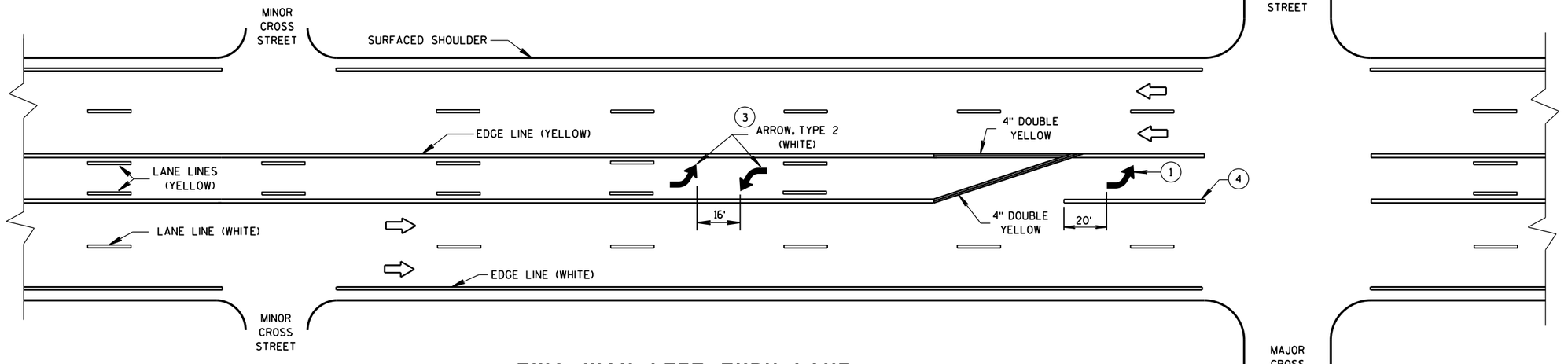
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2016 — DATE
/S/ Matthew R. Rauch — STATE SIGNING AND MARKING ENGINEER
FHWA

S.D.D. 15 C 8-17a

6





TWO WAY LEFT TURN LANE

GENERAL NOTES

(1) REQUIRED ARROW, TYPE 2 (WHITE).

(2) REQUIRED ARROW, TYPE 2 (WHITE) WHEN L IS GREATER THAN 78 FEET AND LESS THAN OR EQUAL TO 166 FEET.

(3) A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.

(4) 8" WHITE

(5) REQUIRED WORD ONLY WHEN L IS GREATER THAN 166 FEET.

NOTE:
ARROW SYMBOL (⇨)
SHOWS DIRECTION OF TRAVEL

L = LENGTH OF TURN BAY

PAVEMENT MARKING (TURN LANES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 15 C 8-17b

LEGEND

SIGN ON PORTABLE OR PERMANENT SUPPORT

DIRECTION OF TRAFFIC

WORK AREA

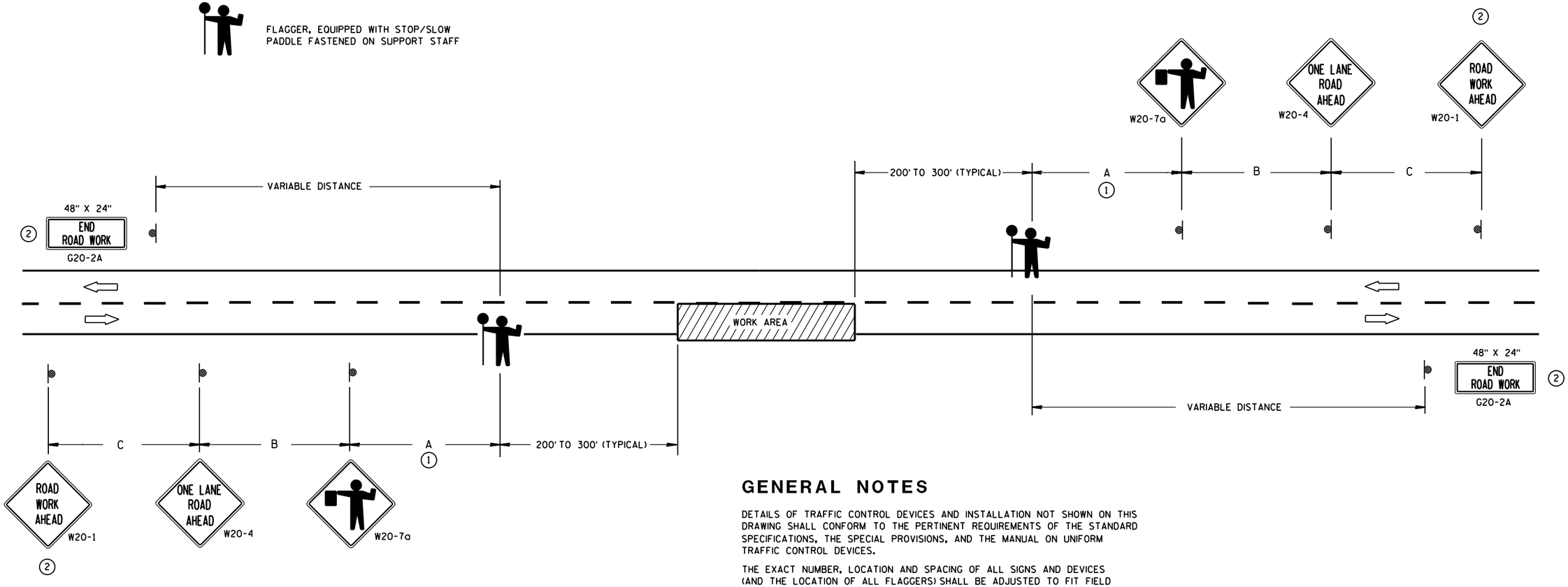
FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

SIGN SPACING TABLE

SPEED LIMIT	SIGN SPACING A,B,C
25-35 MPH	200'
35-40 MPH	350'
45-55 MPH	500'

BE PREPARED TO STOP
W3-4

USE OF THE "BE PREPARED TO STOP" SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7a AND W20-4 SIGNS. A 500' TYPICAL SPACING SHALL BE PROVIDED BETWEEN THE SIGNS.



(1) FOR A MOVING WORK OPERATION,
SIGNING FOR BOTH DIRECTIONS SHALL BE REESTABLISHED (AS SIMULTANEOUSLY AS PRACTICAL) AT APPROXIMATELY 3500 FOOT INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.

(2) SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES (AND THE LOCATION OF ALL FLAGGERS) SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT, COVER OR REMOVE ALL TEMPORARY TRAFFIC CONTROL SIGNS.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
8/2013 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

6

S.D.D. 15 C 12-4

6

S.D.D. 15 C 12-4

LEGEND

SIGN ON PORTABLE OR PERMANENT SUPPORT

DIRECTION OF TRAFFIC

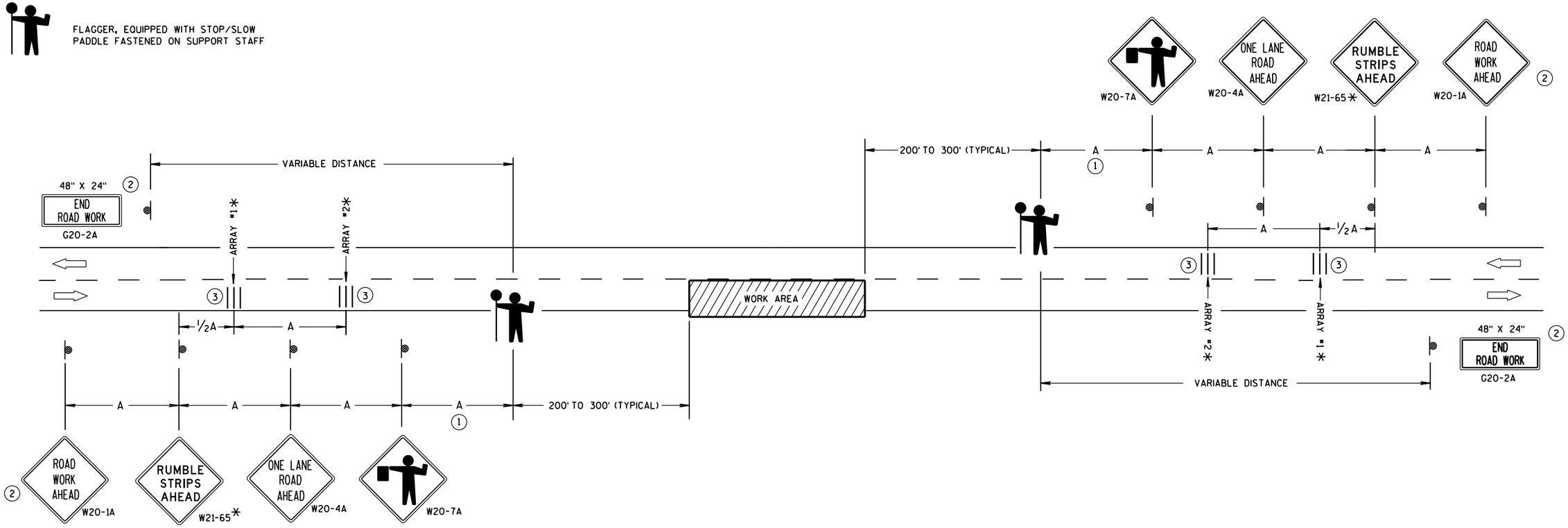
WORK AREA

FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

SPEED LIMIT	SPACING A
25-35 MPH	200'
35-40 MPH	350'
45-55 MPH	500'

USE OF THE "BE PREPARED TO STOP" SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7A AND W20-4A SIGNS, USING SPACING A.



TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES (AND THE LOCATION OF ALL FLAGGERS) SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS.

PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT, REMOVE TEMPORARY RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.

* UTILIZE TEMPORARY RUMBLE STRIPS WHEN FLAGGING OPERATION IS ANTICIPATED TO BE STATIONARY IN EXCESS OF TWO HOURS.

(1) FOR A MOVING WORK OPERATION, SIGNING AND TEMPORARY RUMBLE STRIPS (IF USED) SHALL BE REESTABLISHED (AS SIMULTANEOUSLY AS PRACTICAL) AT APPROXIMATELY 3,500 FOOT INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.

(2) SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

(3) EACH TEMPORARY RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS SPACED ACCORDING TO MANUFACTURER'S RECOMMENDATION, PLACED TRANSVERSE ACROSS THE LANE AT LOCATIONS SHOWN.

TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
December, 2016 — /S/ Andrew Heldtke
DATE — WORK ZONE ENG
FHWA

6
S.D.D. 15 C 12-5

LEGEND

- TRAFFIC CONTROL DRUM
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- FLASHING ARROW BOARD
- WORK AREA

GENERAL NOTES

THIS DETAIL IS TYPICAL FOR CLOSING THE RIGHT SHOULDER. FOR CLOSING THE LEFT SHOULDER, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR DIVIDED ROADWAYS WITH ANY NUMBER OF TRAVEL LANES.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

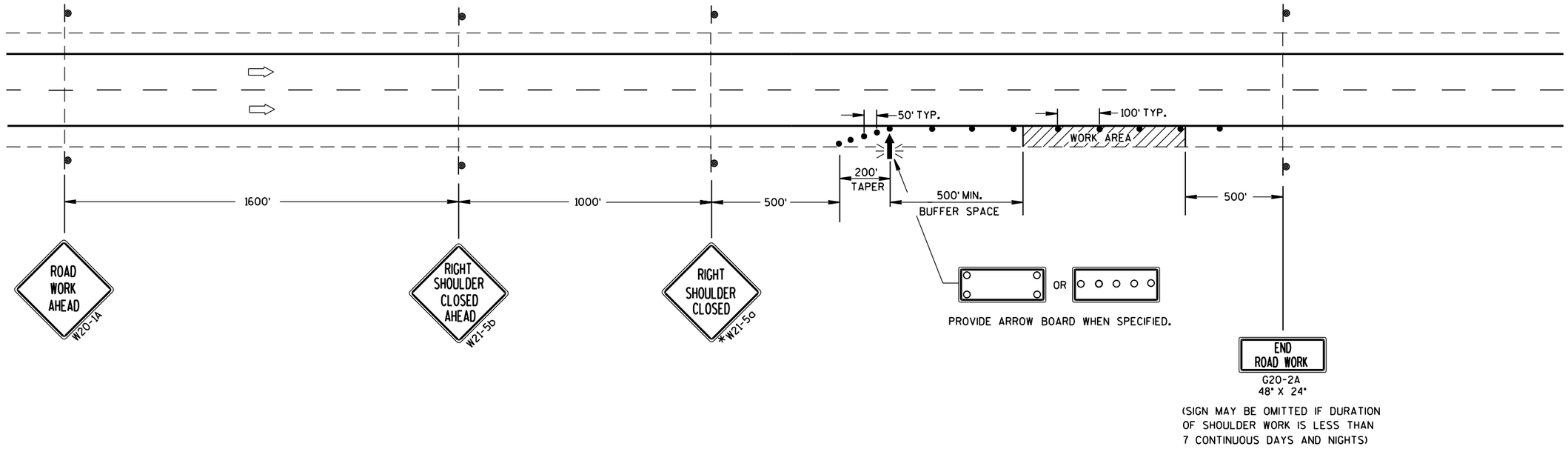
SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

CHANNELIZING DEVICES PLACED ADJACENT TO THE WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

*FOR SHORT DURATION SHOULDER WORK OF LESS THAN ONE HOUR, THE W21-5a SIGN MAY BE OMITTED.



TRAFFIC CONTROL SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June 2016 — DATE

/S/ Peter Amakobe Atepe
STATEWIDE WORK ZO[illegible] SAFETY ENGI[illegible]

FHWA

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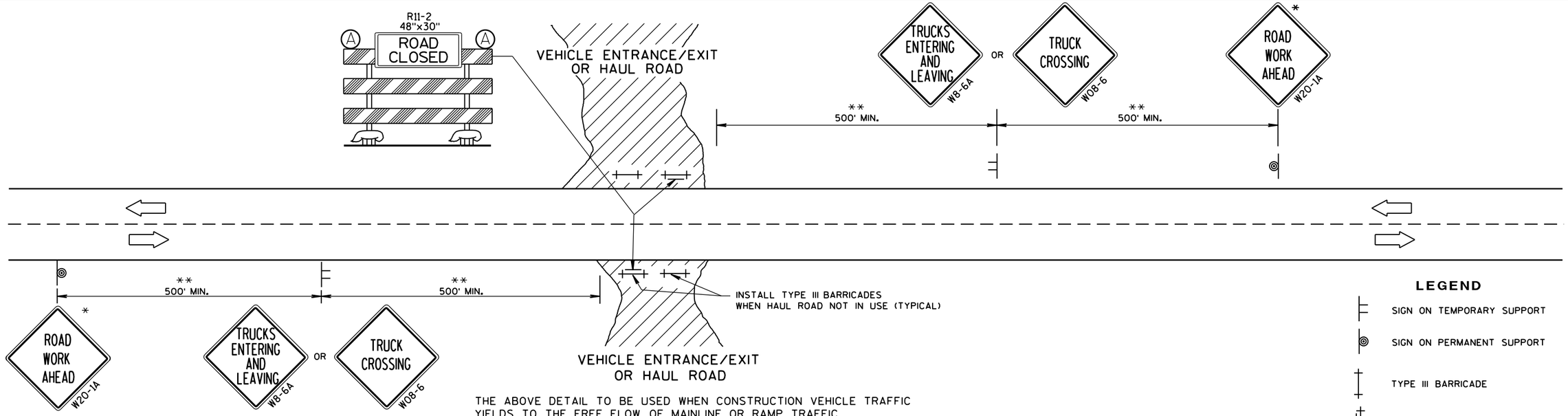
S.D.D. 15 D 27-3



THE ABOVE DETAIL TO BE USED WHEN CONSTRUCTION VEHICLE TRAFFIC YIELDS TO THE FREE FLOW OF MAINLINE OR RAMP TRAFFIC

LEGEND

- SIGN ON TEMPORARY SUPPORT
- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS, DEVICES AND FLAGGERS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

WHEN ACTIVITY REFLECTED BY THE SIGN IS NOT CURRENTLY TAKING PLACE, THE HIGHWAY SHALL BE RESTORED TO NORMAL CONDITION AND THE SIGNS SHALL BE REMOVED, COVERED OR TURNED AWAY FROM TRAFFIC.

WHEN A SIDE ROAD OR RAMP INTERSECTS WITHIN THE ADVANCE SIGNING AREA, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

* THESE SIGNS ARE TO BE USED ONLY WHEN VEHICLE **ENTRANCE/EXIT CONDITIONS ARE SEPARATED BY MORE THAN 2 MILES** FROM PREVIOUS WORK AREA OR SIGNING OR AS DIRECTED BY THE ENGINEER.

** 500 FEET SHOWN IS FOR ROADWAYS WITH A NON-CONSTRUCTION REGULATORY SPEED LIMIT OF 45 MPH OR MORE. FOR 35-40 MPH, USE 350 FEET. FOR 25-30 MPH, USE 200 FEET. USE 1000 FEET/1500 FEET FOR EXPRESSWAY/FREEWAY.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

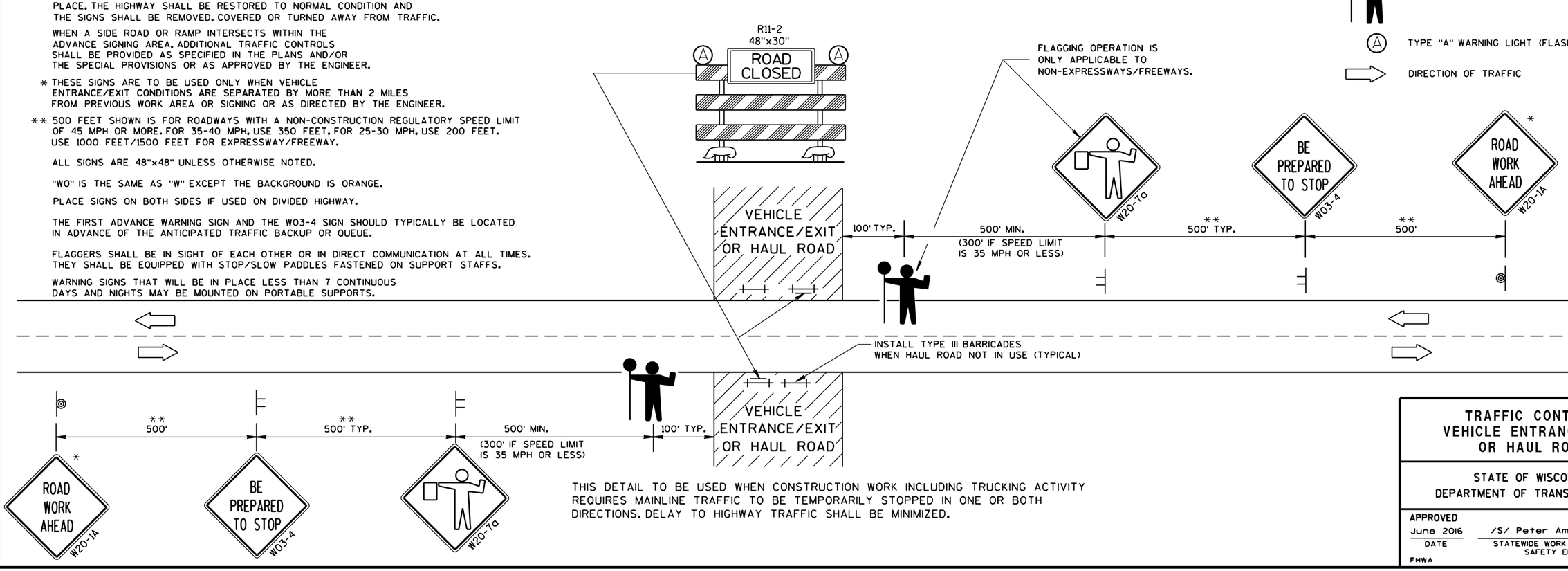
"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

PLACE SIGNS ON BOTH SIDES IF USED ON DIVIDED HIGHWAY.

THE FIRST ADVANCE WARNING SIGN AND THE W03-4 SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS.

WARNING SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.



THIS DETAIL TO BE USED WHEN CONSTRUCTION WORK INCLUDING TRUCKING ACTIVITY REQUIRES MAINLINE TRAFFIC TO BE TEMPORARILY STOPPED IN ONE OR BOTH DIRECTIONS. DELAY TO HIGHWAY TRAFFIC SHALL BE MINIMIZED.

TRAFFIC CONTROL, VEHICLE ENTRANCE/EXIT OR HAUL ROAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

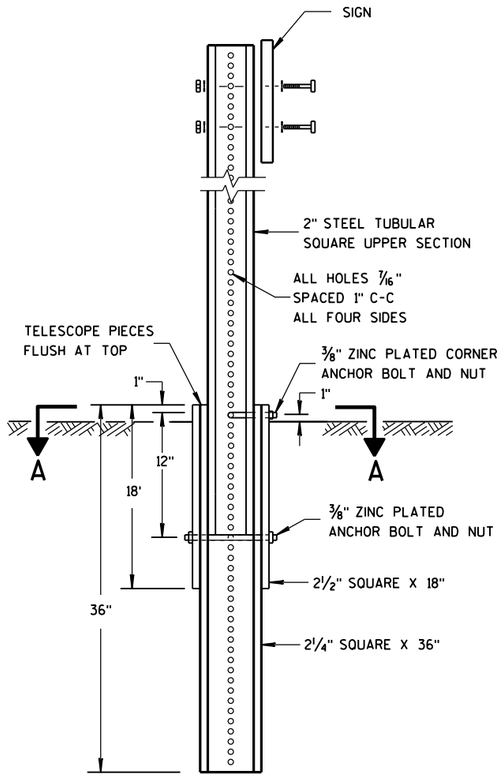
APPROVED

June 2016	/S/ Peter Amakobe Atepe
DATE	STATEWIDE WORK ZONE SAFETY ENGINEER

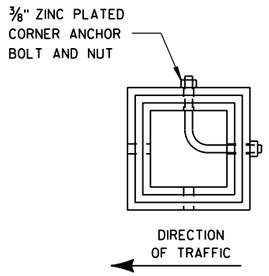
FHWA

6

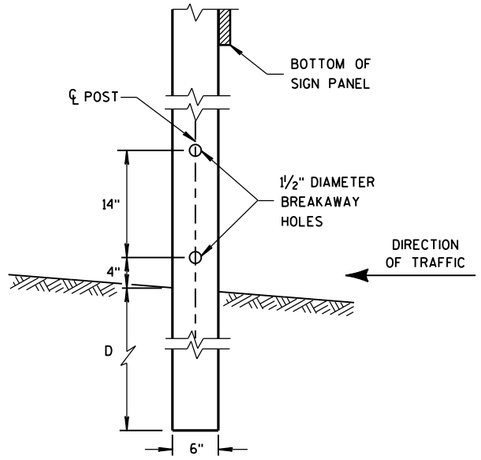
S.D.D. 15 D 29-4



DETAIL OF TUBULAR STEEL SIGN POST



SECTION A-A



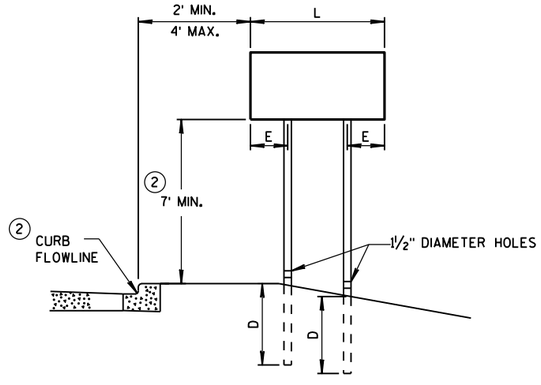
4"x6" WOOD POST MODIFICATION

GENERAL NOTES

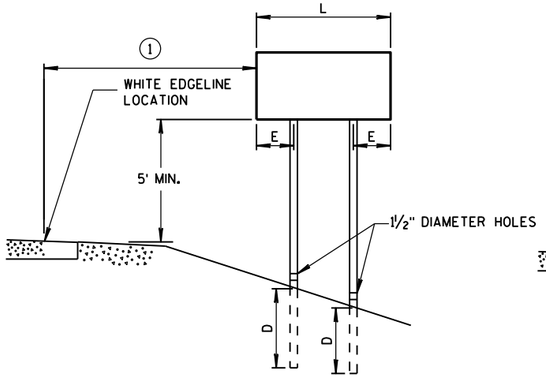
(1) 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.

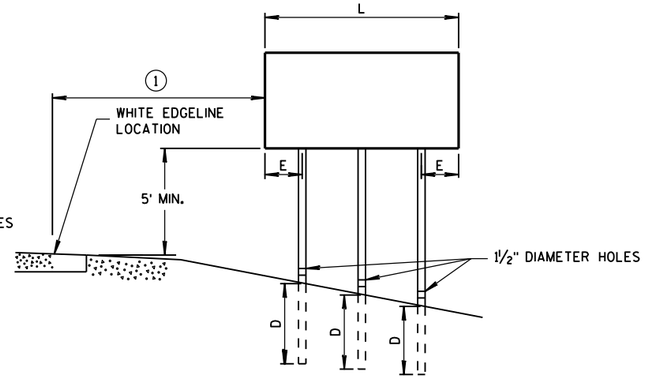
(2) THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY MEASURED WHERE THERE IS SIDEWALK ADJACENT TO THE ROADWAY OR PARKING IS PERMITTED. IN THE ABSENCE OF SIDEWALK, VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE CURB. IF NO SIDEWALK AND NO PARKING, VERTICAL CLEARANCE MAY BE REDUCED TO 5 FOOT MINIMUM. OFFSET OF SIGNS IS MEASURED FROM THE CURB FLOWLINE.

(3) FOR SIGNS REQUIRING 4 POSTS, SPACE INTERMEDIATE POSTS EVENLY.



URBAN AREA





RURAL AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

TUBULAR STEEL POSTS

AREA OF SIGN INSTALLATION (SQ. FT.)	NUMBER OF REQUIRED TUBULAR STEEL POSTS
9 OR LESS	1
GREATER THAN 9 LESS THAN OR EQUAL TO 18	2
GREATER THAN 18 LESS THAN OR EQUAL TO 27	3

SIGNS WIDER THAN 3 FEET OR LARGER THAN 9 SQ. FT. SHALL BE MOUNTED ON MULTIPLE POSTS (SEE ABOVE TABLE).

SIGNS LARGER THAN 27 SQ. FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.

WOOD POST EMBEDMENT DEPTH

AREA OF SIGN INSTALLATION (SQ. FT.)	D (MIN)
20 OR LESS	4'
GREATER THAN 20	5'

4" X 6" WOOD POST

POST SPACING REQUIREMENTS		NUMBER OF WOOD POSTS REQUIRED
L	E	
48" OR LESS AND LESS THAN 20 SQ. FT.	-	1
LESS THAN 60"	12"	2
60" TO 120"	L/5	2
GREATER THAN 120" LESS THAN 168"	12"	3
168" AND GREATER	12"	4

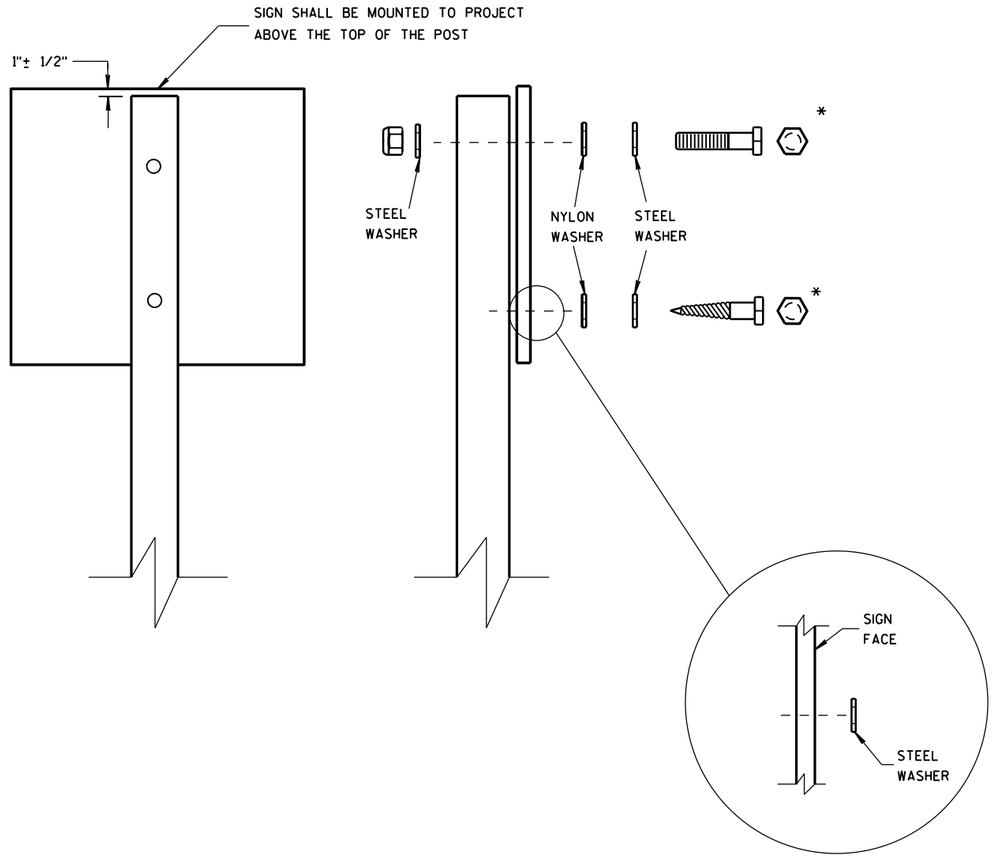
SEE NOTE (3)

TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

STATE OF WISCONSIN DEPARTMENT OF TRANSPOR

6

S.D.D. 15 D 38-1a



WASHER PLACEMENT WHEN SIGN HAS OTHER THAN TYPE H OR TYPE F FACE

NUTS, BOLTS AND LAGS USED FOR MOUNTING SIGNS SHALL HAVE HEXAGONAL HEADS AND SHALL BE EITHER:

A. HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: A 153, CLASS D, OR SC 3

B. ELECTRO-GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: B 633, TYPE III, SC 3

THREADS ON BOLTS AND NUTS SHALL BE MANUFACTURED WITH SUFFICIENT ALLOWANCE FOR THE CADMIUM PLATE OR GALVANIZED COATING TO PERMIT THE NUTS TO RUN FREELY ON THE BOLTS.

WOOD POSTS (4" x 4" or 4" x 6")

LAG SCREWS - 3/8" X 3"

MACHINE BOLTS - 5/16" X 6-1/2" OR 7" LENGTH W/ NUTS

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" LENGTH W/ NUTS

RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL

1-1/4" O.D. X 3/8" I.D. X .080 NYLON FOR ALL TYPE H SIGNS

* TWO DIFFERENT FASTENING SYSTEMS ARE SHOWN FOR ILLUSTRATION PURPOSES. ON ANY INDIVIDUAL SIGN, EITHER ONE OR THE OTHER SYSTEM SHALL BE USED. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA. FOR A SINGLE POST INSTALLATION, ALL SIGNS GREATER THAN 9 SQ. FT. REQUIRE THE USE OF 3 FASTENERS.

6

6

S.D.D. 15 D 38-1b

S.D.D. 15 D 38-1b

ATTACHMENT OF SIGNS TO POSTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

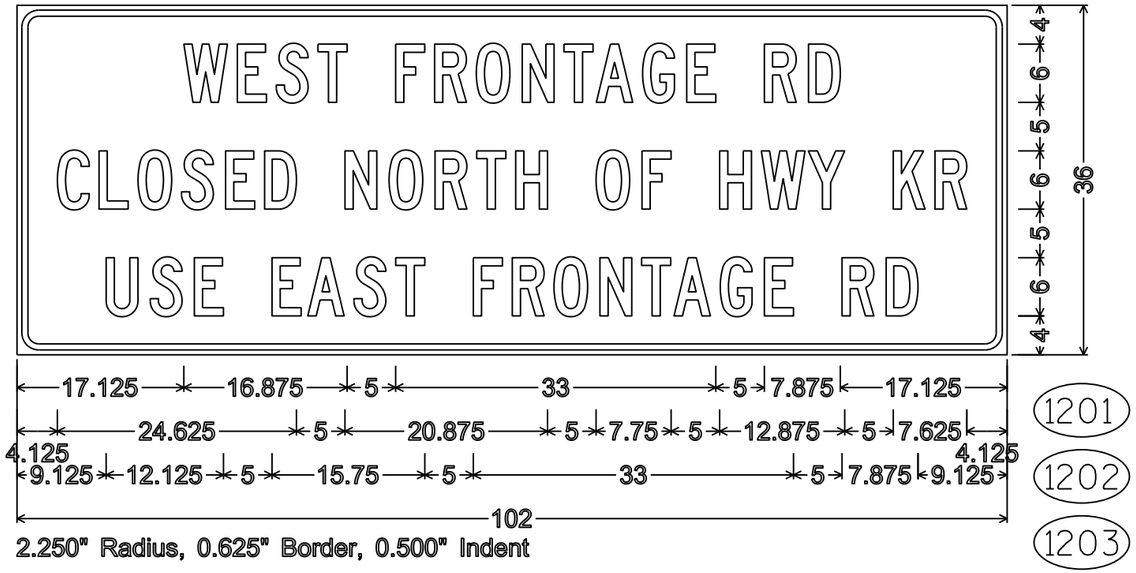
APPROVED

Feb. 2015 — DATE

/S/ Travis Feltes — STATE TRAFFIC ENGINEER

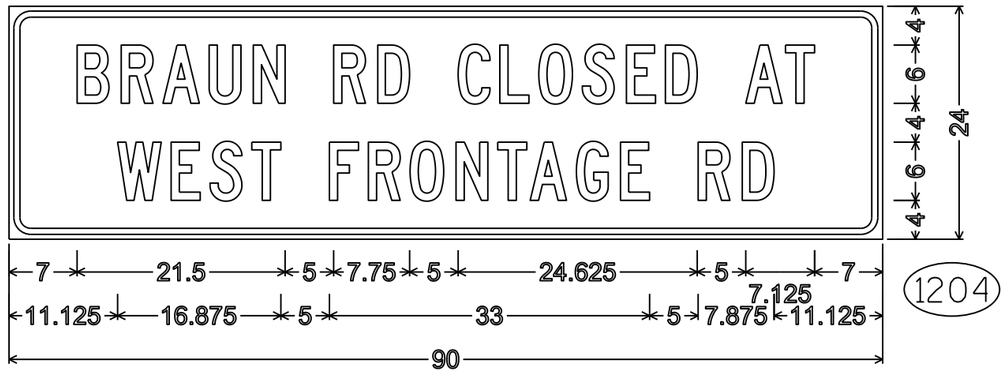
FHWA

SIGN



NOTES

1. Fixed Message Type II Signs - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C



7

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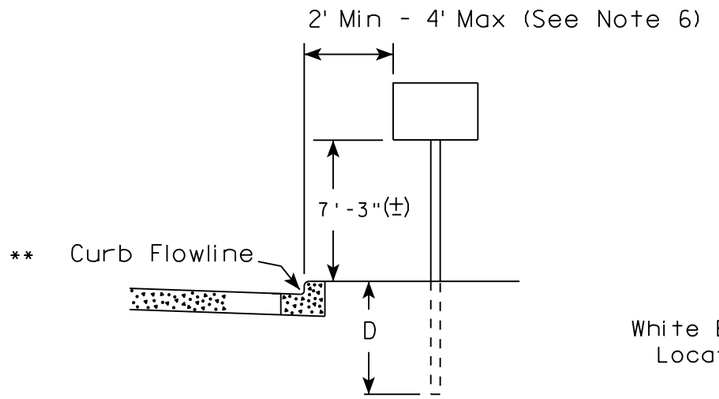
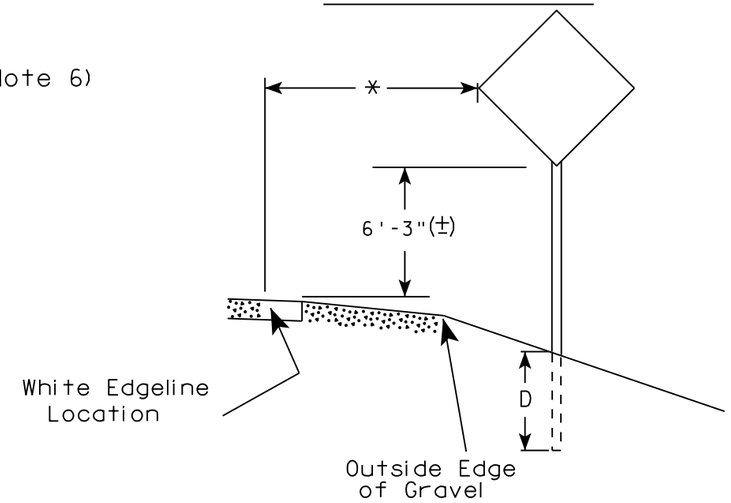
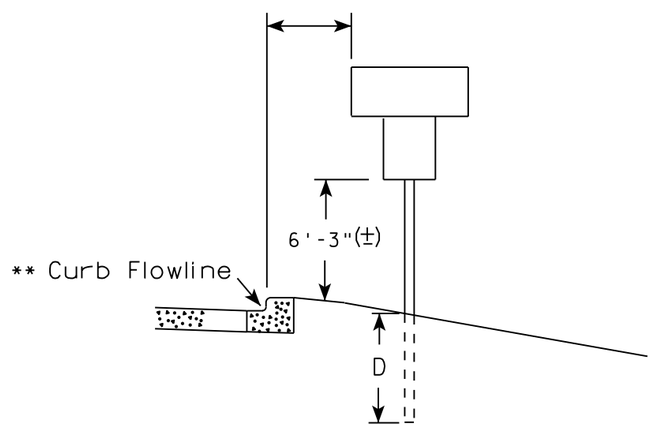
PROJECT NO: 1030-24-78	HWY: IH 94	COUNTY: RACINE	TEMPORARY SIGNING	SHEET NO: 139	E

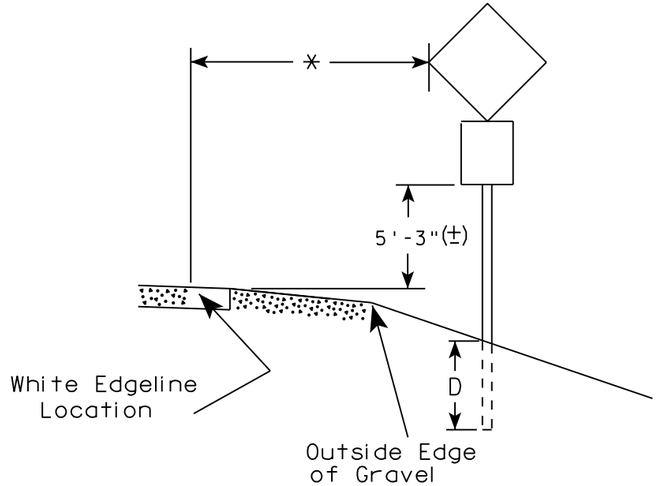
URBAN AREA



RURAL AREA (See Note 2)







** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq.Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on barrier wall, see A4-10 sign plate.
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. J-Assemblies are considered to be one sign for mounting height.
5. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. The (±) tolerance for mounting height is 3 inches.
8. Folding signs shall be mounted at a height of 5'-3" (±) or as directd by the Engineer.
9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).

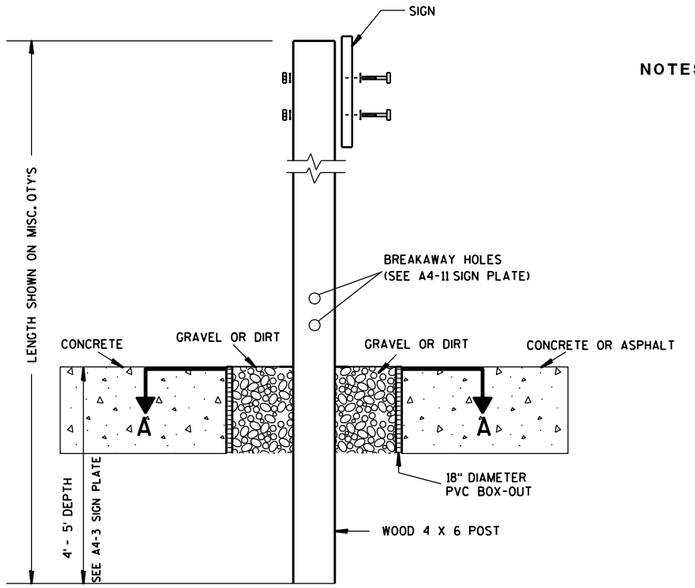
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 8/21/17 PLATE NO. A4-3.21

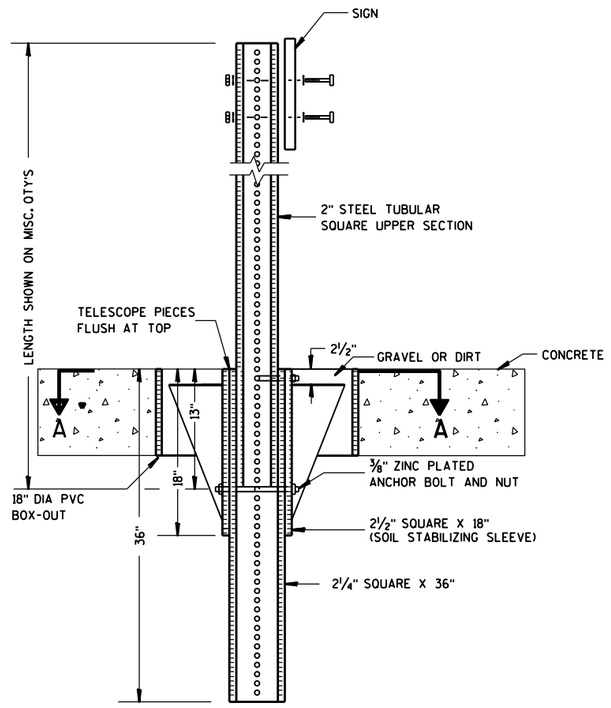
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 140	E



ELEVATION VIEW

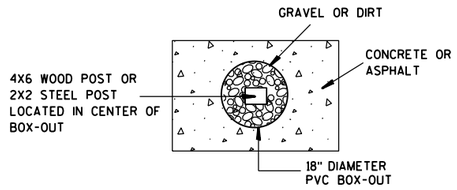
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

NOTES:
1. ALL MATERIAL TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION
2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

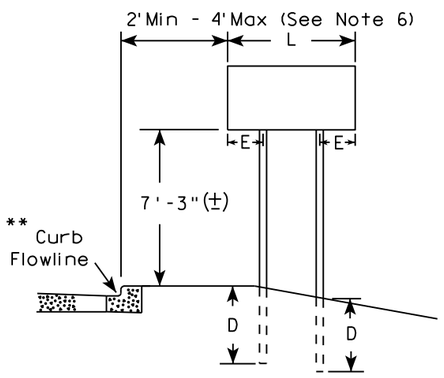
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

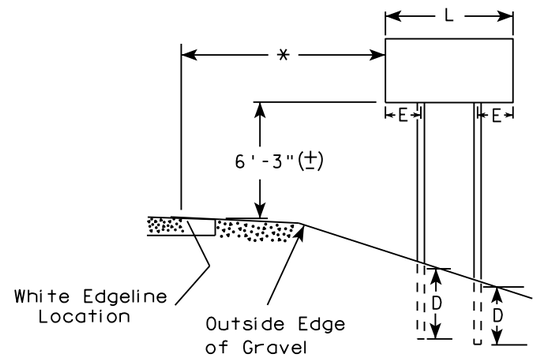
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

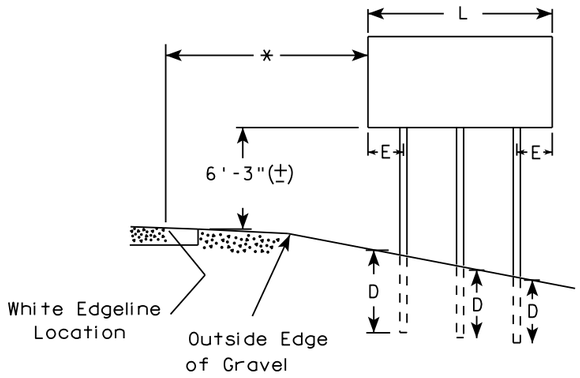
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN PLOT DATE : 27-JAN-2014 09:48 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42

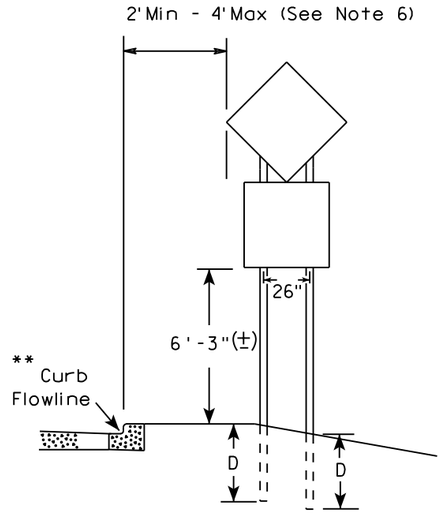
URBAN AREA



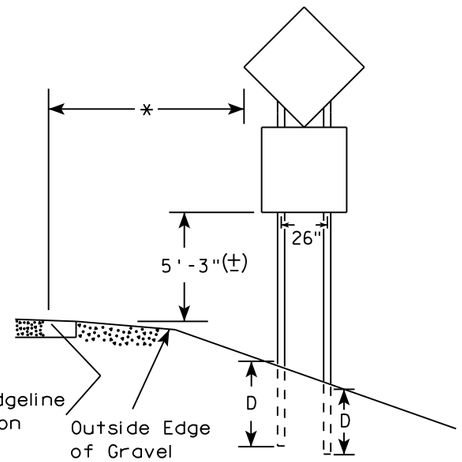
RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

***	SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)	
	L	E
	Greater than 48" Less than 60"	12"
	60" to 108"	L/5

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 108" to 144"	12"

GENERAL NOTES

1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
2. See tables below for required number of posts.
3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
4. The (±) tolerance for mounting height is 3 inches.
5. J-Assemblies are considered to be one sign for mounting height.
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±).

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

*** See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

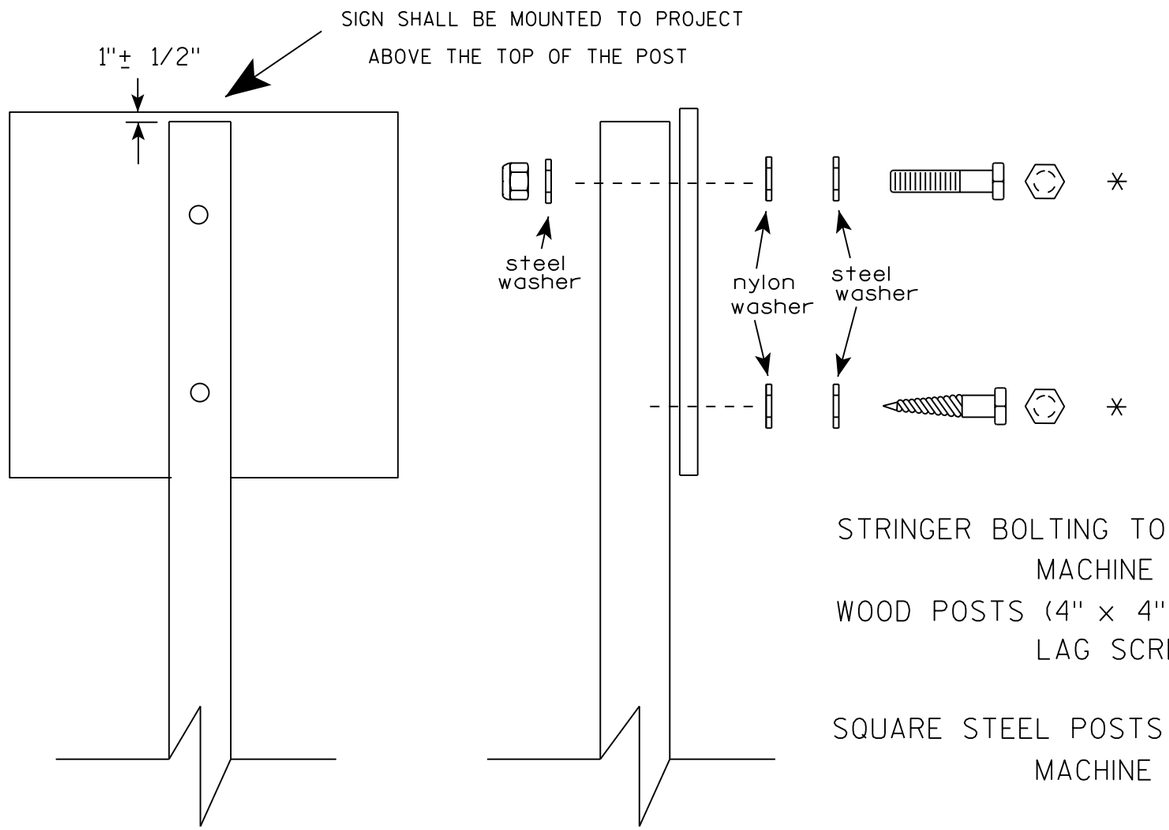
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/21/17 PLATE NO. A4-4.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 142	E



Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3
b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)
MACHINE BOLTS - 5/16" X 1-3/4" Length w/ lock nuts
WOOD POSTS (4" x 4" or 4" x 6")
LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)
3/8" X 4" (STRINGERS ON BACK OF SIGN)
SQUARE STEEL POSTS (2" x 2")
MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)
3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)
RIVETS - 9/32 " (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH
WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON

* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

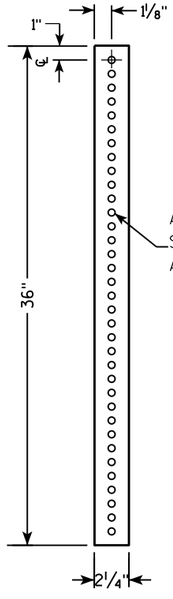
DATE 8/11/16 PLATE NO. A4-8.8

PROJECT NO: SHEET NO: E

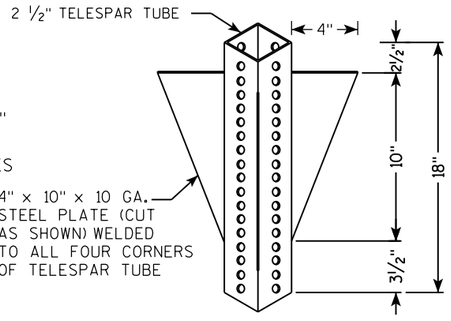
FILE NAME : C:\CADfiles\Projects\tr_stdplate\A48.DGN PLOT DATE : 11-AUG-2016 11:35 PLOT BY : $$ plotuser $$

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

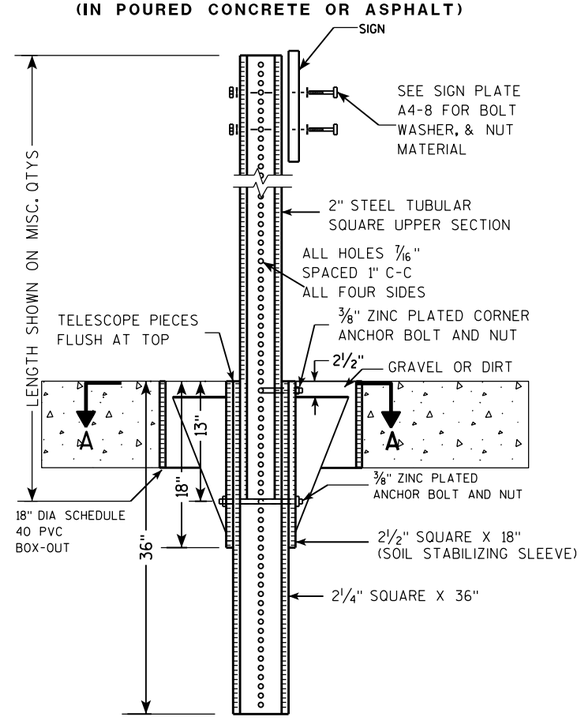
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



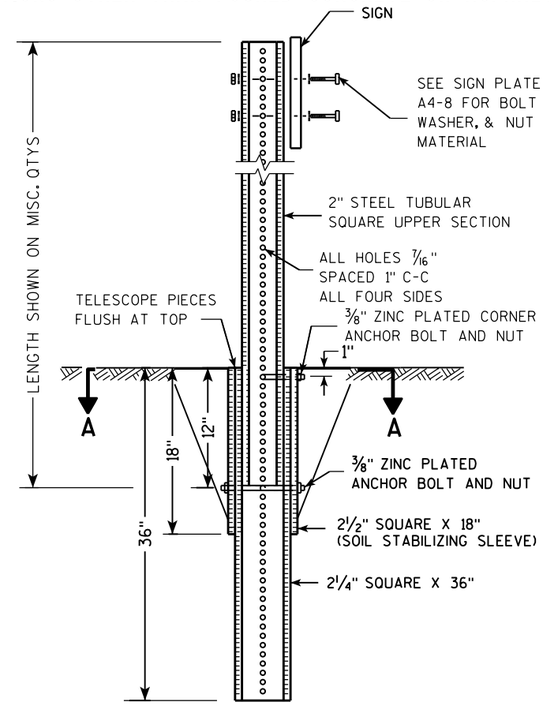
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

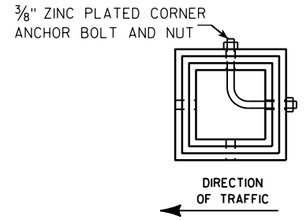


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



DETAIL OF TUBULAR STEEL SIGN POST
(IN LOCATIONS OTHER THAN POURED CONCRETE OR ASPHALT)





SECTION A-A

Area of Sign Installation (Sq. Ft.)	Number of Required Posts
9 or less	1
Greater than 9 less than or equal to 18	2
Greater than 18 less than or equal to 27	3

Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

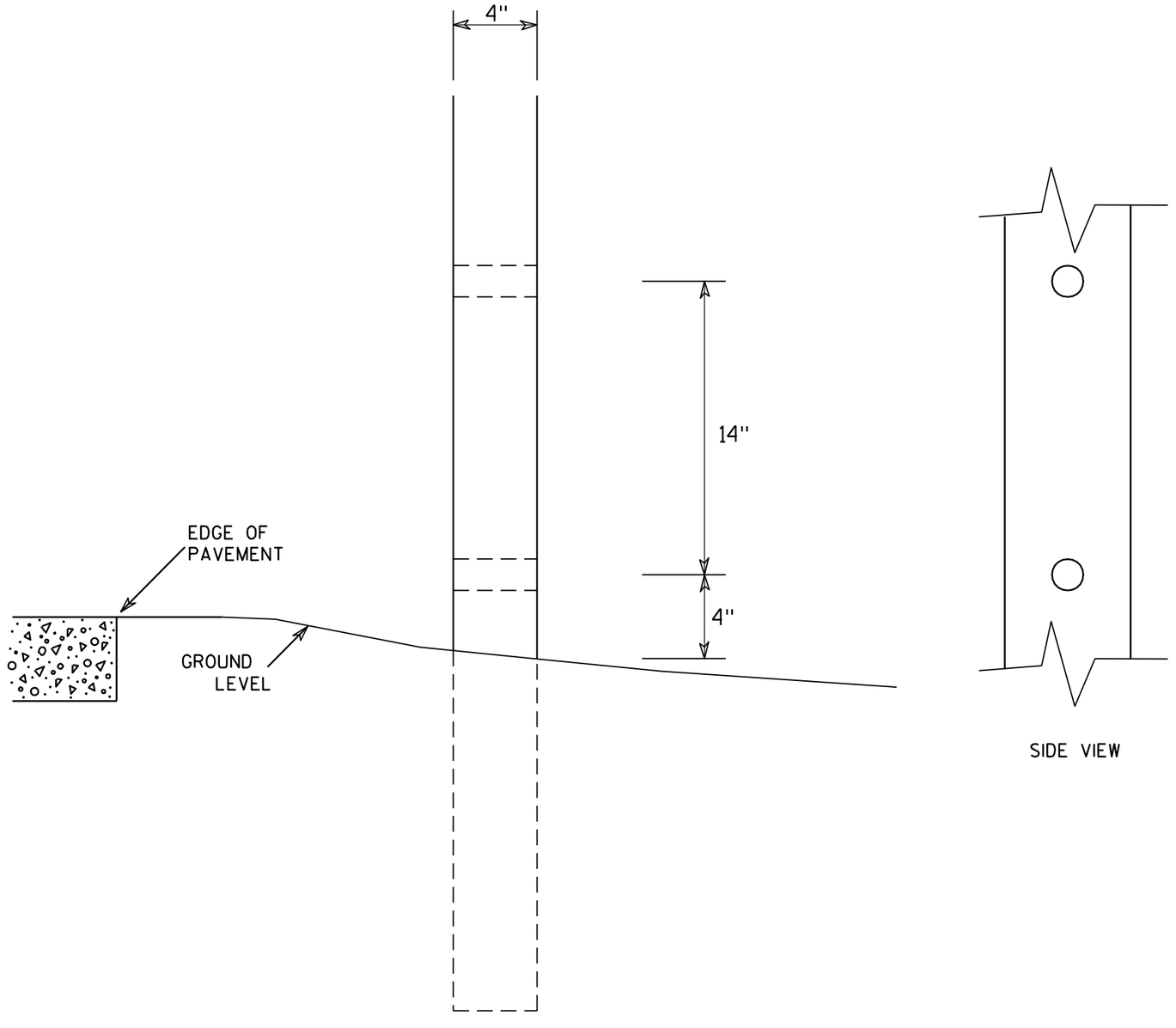
TUBULAR STEEL
SIGN POST
A4-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE 144 A4-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



SIDE VIEW

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

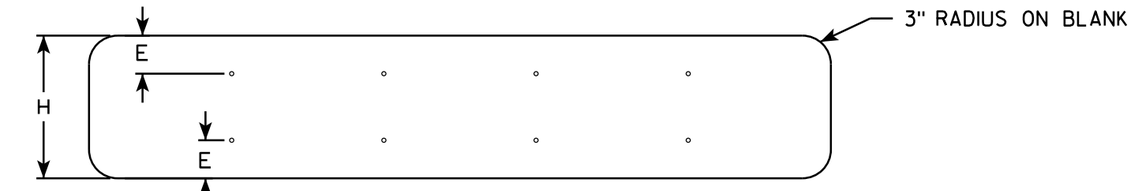
4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

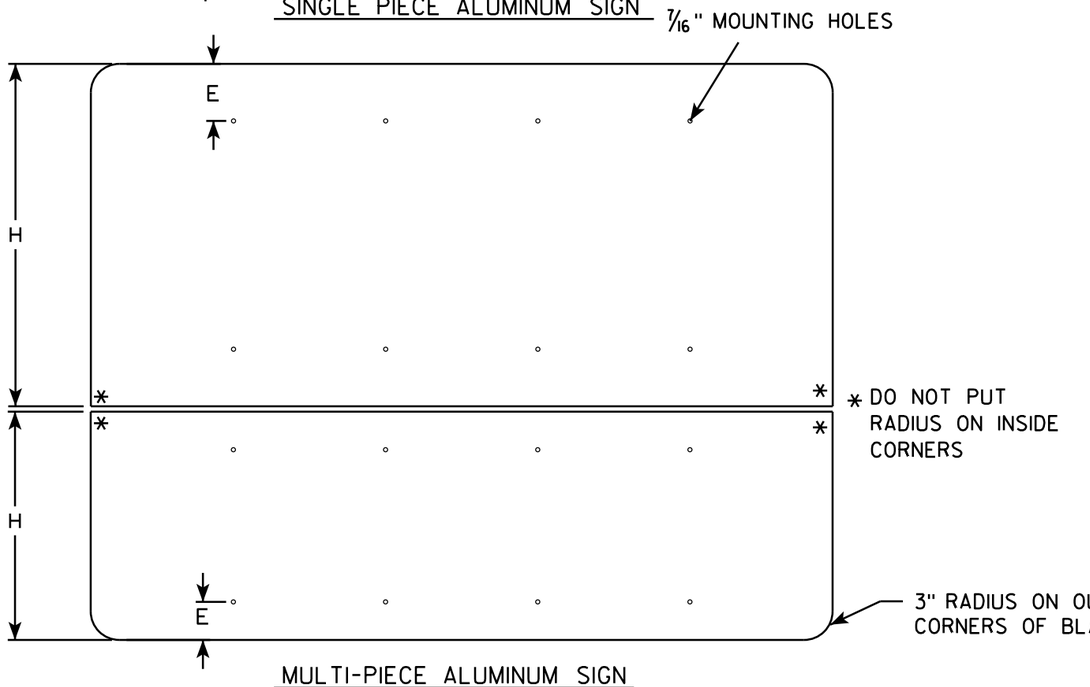
APPROVED Chester J Spang for State Traffic Engineer

DATE 3/27/97 PLATE NO. A4-11.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 145	E



SINGLE PIECE ALUMINUM SIGN

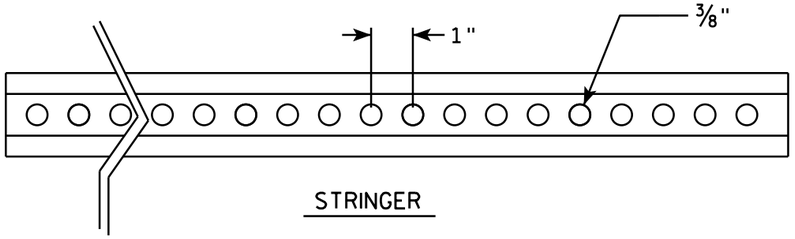


MULTI-PIECE ALUMINUM SIGN

GENERAL NOTES

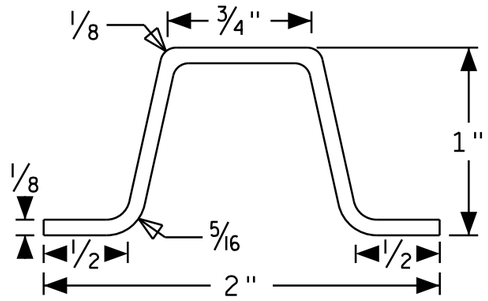
- ALL SIGNS OVER 60" IN WIDTH SHALL HAVE A 3" RADIUS ON THE OUTSIDE CORNERS OF THE ALUMINUM BLANK.
- MOUNTING HOLES SHALL BE 7/16" DIAMETER.
- SEE CHART FOR HOLE SPACING REQUIREMENTS
- FOR SIGN PANELS WITH DIMENSION (H) 36" AND OVER, DIMENSION E SHALL BE 6"
- FOR SIGN PANELS WITH DIMENSION (H) UNDER 36", DIMENSION E SHALL BE 4"
- SIGN STRINGER MATERIAL SHALL CONSIST OF STEEL CHANNEL POST SECTIONS, WEIGHING 1.12 LBS/FT IN ACCORDANCE WITH SECTION 633.2.1 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.
- SEE SIGN PLATE A4-8 FOR SIGN STRINGER BOLTING REQUIREMENTS.

SIGN WIDTH	STRINGER WIDTH	POSTS	HOLE SPACING	MOUNTING HOLES
78"	72"	2	16"	15" 31" 47" 63"
84"	72"	2	17"	16½" 33½" 50½" 67½"
90"	72"	2	18"	18" 36" 54" 72"
96"	90"	2	19"	19½" 38½" 57½" 76½"
102"	90"	2	20"	21" 41" 61" 81"
108"	90"	2	21"	22½" 43½" 64½" 85½"
114"	108"	3	15"	12" 27" 42" 57" 72" 87" 102"
120"	108"	3	16"	12" 28" 44" 60" 76" 92" 108"
126"	108"	3	17"	12" 29" 46" 63" 80" 97" 114"
132"	126"	3	18"	12" 30" 48" 66" 84" 102" 120"
138"	126"	3	19"	12" 31" 50" 69" 88" 107" 126"
144"	126"	3	20"	12" 32" 52" 72" 92" 112" 132"

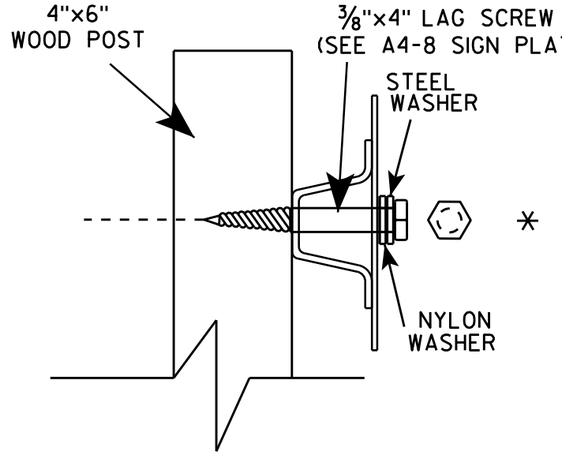


STRINGER

CROSS SECTION VIEW OF CHANNEL



POST MOUNTING



SIGN STRINGER MOUNTING REQUIREMENTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch

for State Traffic Engineer

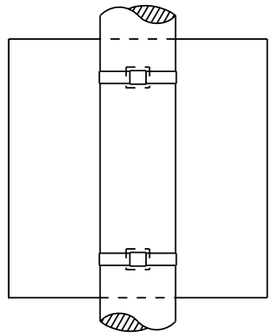
DATE 4/26/16 PLATE NO A4-18.1

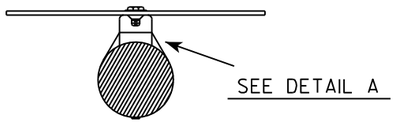
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A418.dgn PLOT DATE : 27-APR-2016 13:56 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 41.805205:1.000000 WISDOT/CADDS SHEET 42

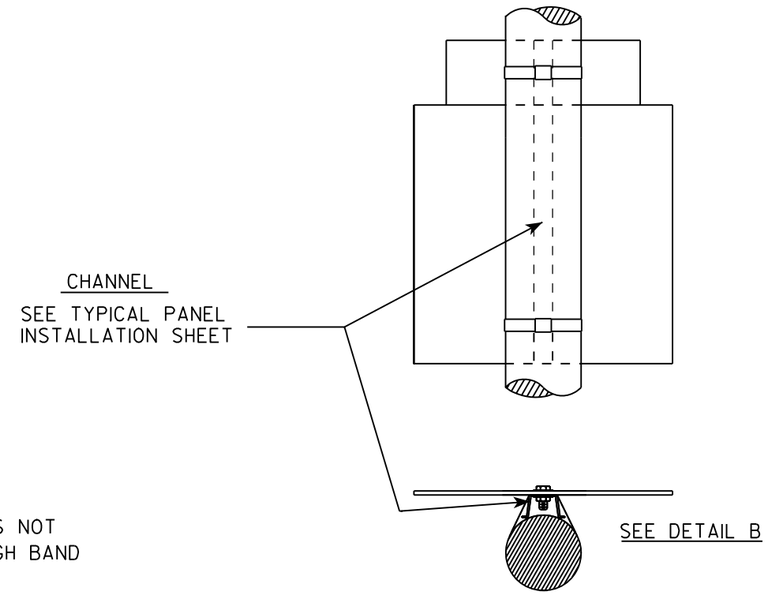
BANDING

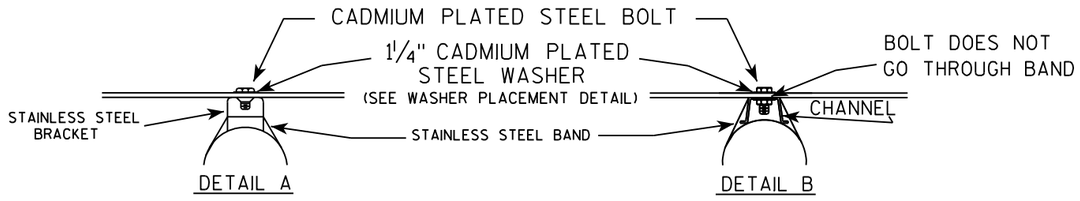
SINGLE SIGN



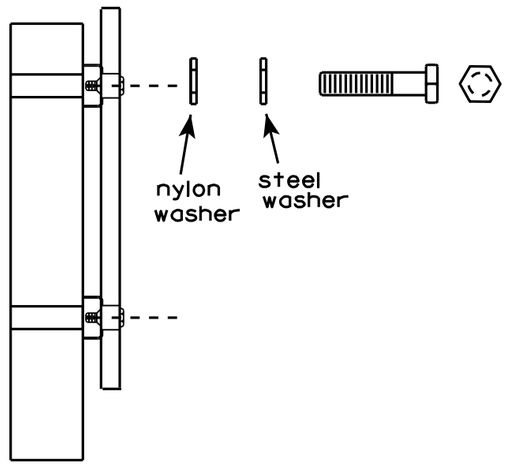


"J" ASSEMBLY





WASHER PLACEMENT



WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be 3/4" in width and 0.025" thickness.

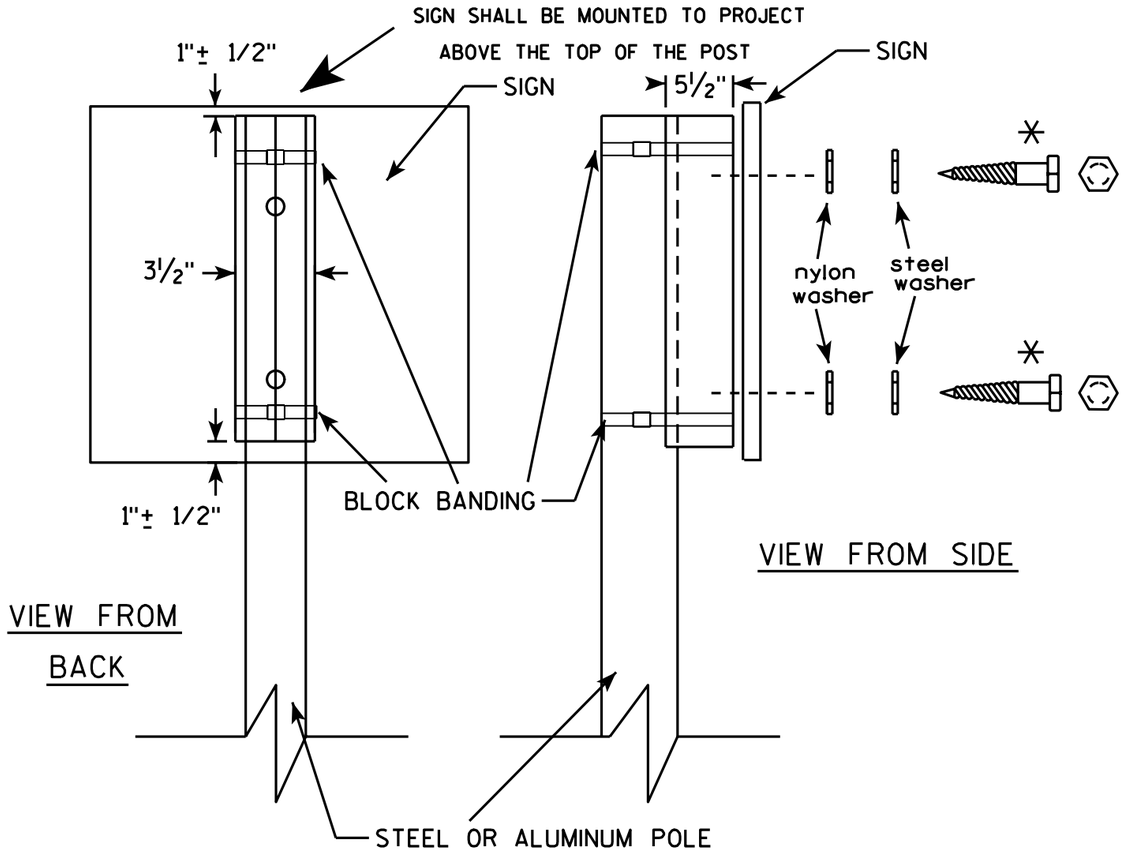
STANDARD SIGN
SIGN BANDING DETAILS

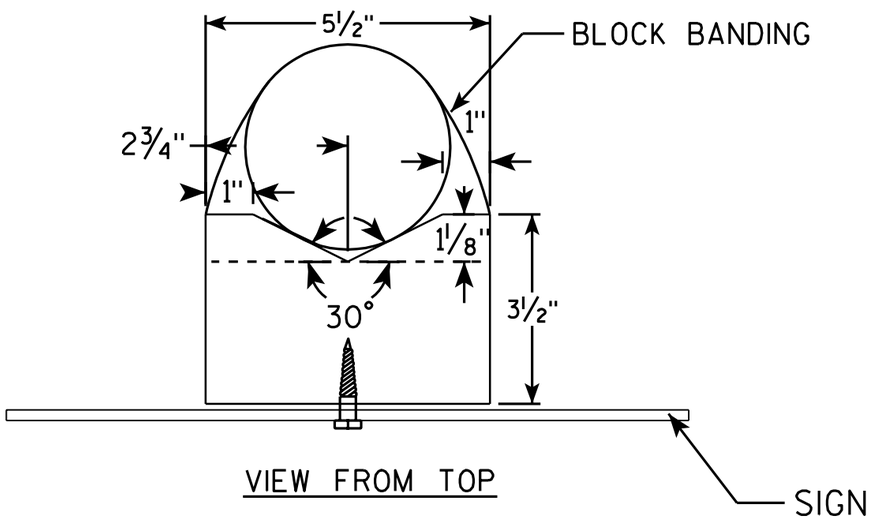
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/16/13 PLATE NO. A5-9.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 147	E





GENERAL NOTES

1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WisDOT STANDARD SPECIFICATIONS
2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, ¾" WIDTH AND 0.025" THICKNESS
3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D, or
   b. Cadmium plated in accordance with ASTM Designation : B 766 TYPE 3, Class 12, or
   c. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.
6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
7. STEEL WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X 1/16"
8. NYLON WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

✳ LAG BOLTS SHALL BE ⅜" X 2½"

BLOCK BANDING DETAIL (V-BLOCK OPTION)

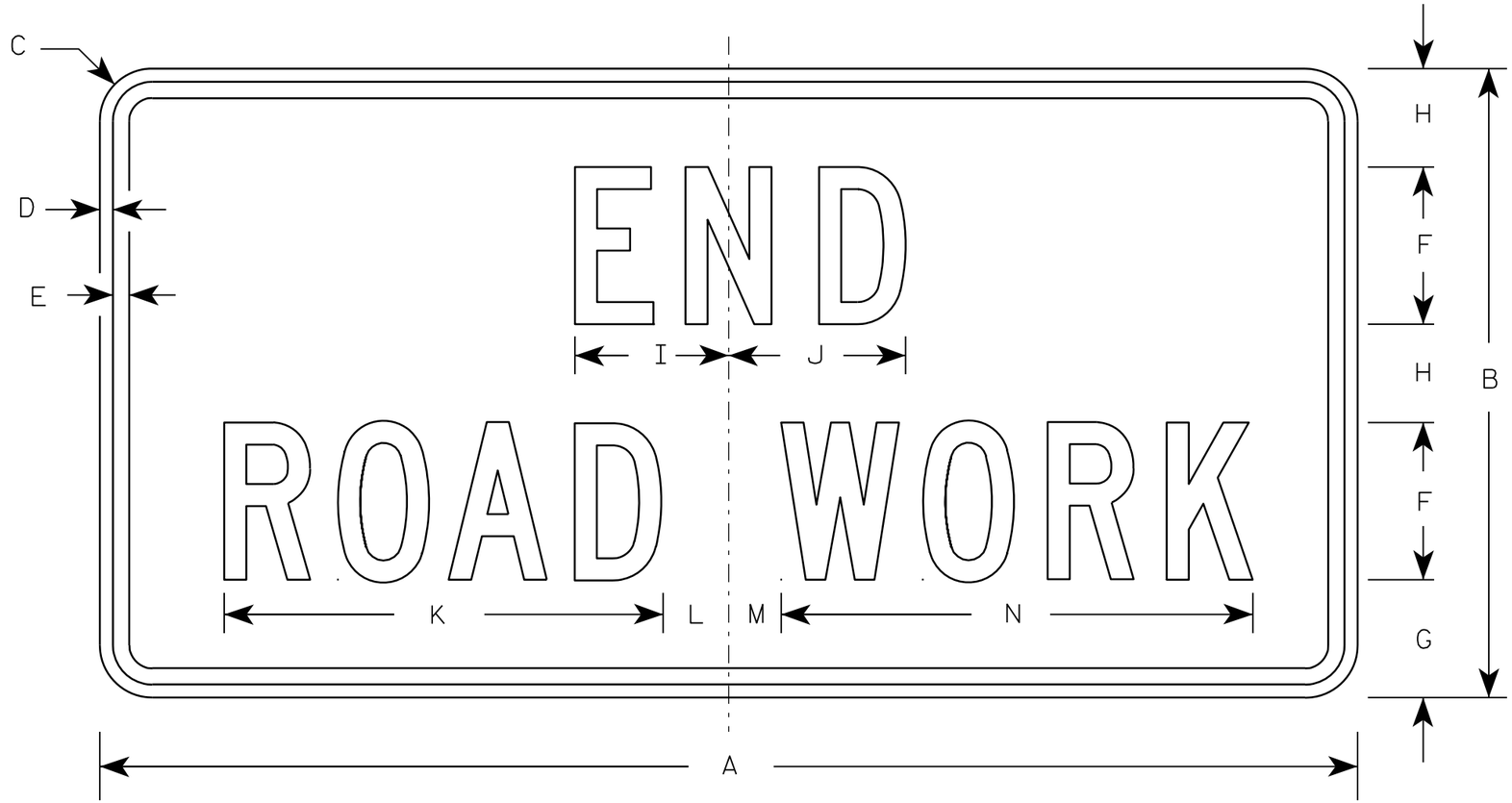
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/12/07 PLATE NO. A5-10.1

PROJECT NO:

SHEET NO: 148 E



G20-2A

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

Metric equivalent for this sign is:

SIZE	
1	900 mm X 450 mm
2	1200 mm X 600 mm
3	1200 mm X 600 mm
4	1200 mm X 600 mm
5	1200 mm X 600 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1	36	18	1 1/8	3/8	1/2	4	3 3/4	2 1/2	4 1/8	4 1/8	11 1/8	2	1	12 1/8													4.5	0.41
2	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
3	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
4	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
5	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72

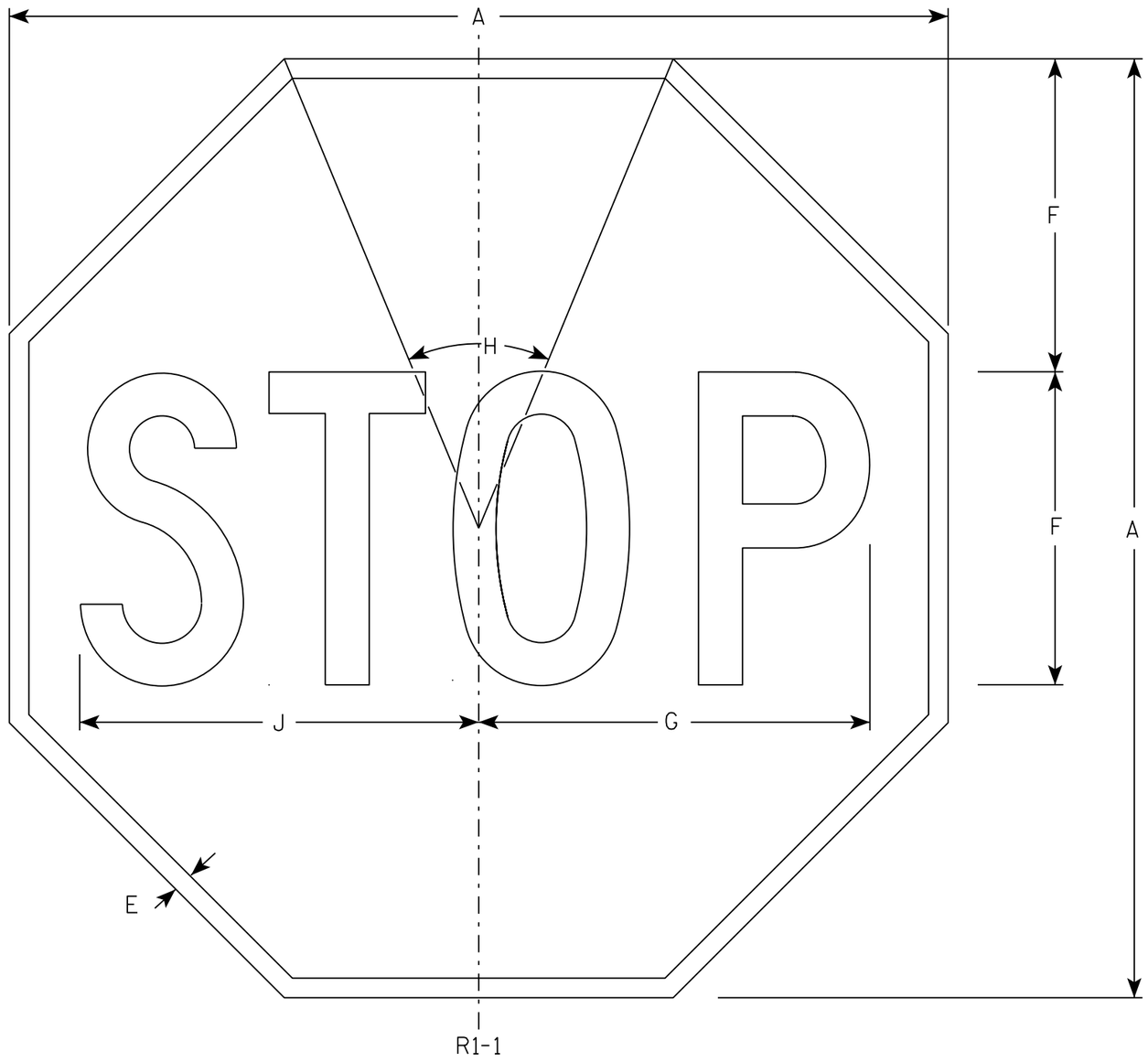
STANDARD SIGN
G20-2A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/30/09 PLATE NO. G20-2A.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 149	E



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - C

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2S	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2M	36				3/4	12	15	45°		15 3/8																	7.46
3	36				3/4	12	15	45°		15 3/8																	7.46
4	48				1	16	20	45°		20 1/2																	13.25
5	48				1	16	20	45°		20 1/2																	13.25
6	18				3/8	6	7 3/4	45°		7 3/4																	1.86
7	12				1/4	4	5	45°		5 1/8																	0.78

STANDARD SIGN
R1-1

WISCONSIN DEPT OF TRANSPORTATION

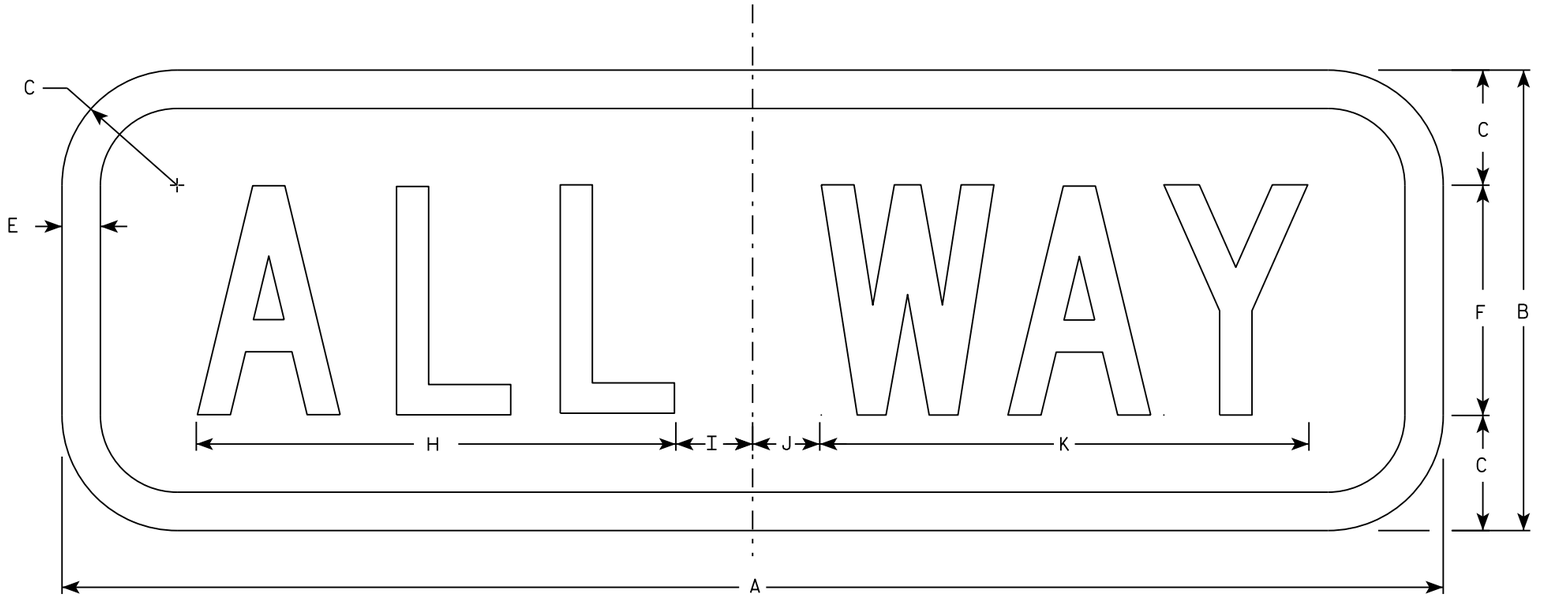
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/12/15 PLATE NO. R1-1.13

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 150	E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - Red
   Message - White
3. Message Series - C
4. For 30"x30" R1-1 use 18"x6" R1-3P sign
   For 36"x36" R1-1 use 24"x9" R1-3P sign
   For 48"x48" R1-1 use 30"x12" R1-3P sign



R1-3P

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	6	1 ½		½	3		6 ¼	1 ¼	⅞	6 ⅜																0.75
2S	18	6	1 ½		½	3		6 ¼	1 ¼	⅞	6 ⅜																1.5
2M	24	9	1 ½		½	5		9 ¼	1 ¼	¾	9 ¾																1.5
3	24	9	1 ½		½	5		9 ¼	1 ¼	¾	9 ¾																1.5
4	30	12	2 ¼		⅝	6		11	2 ¼	1 ½	11 ¾																2.5
5	30	12	2 ¼		⅝	6		11	2 ¼	1 ½	11 ¾																2.5

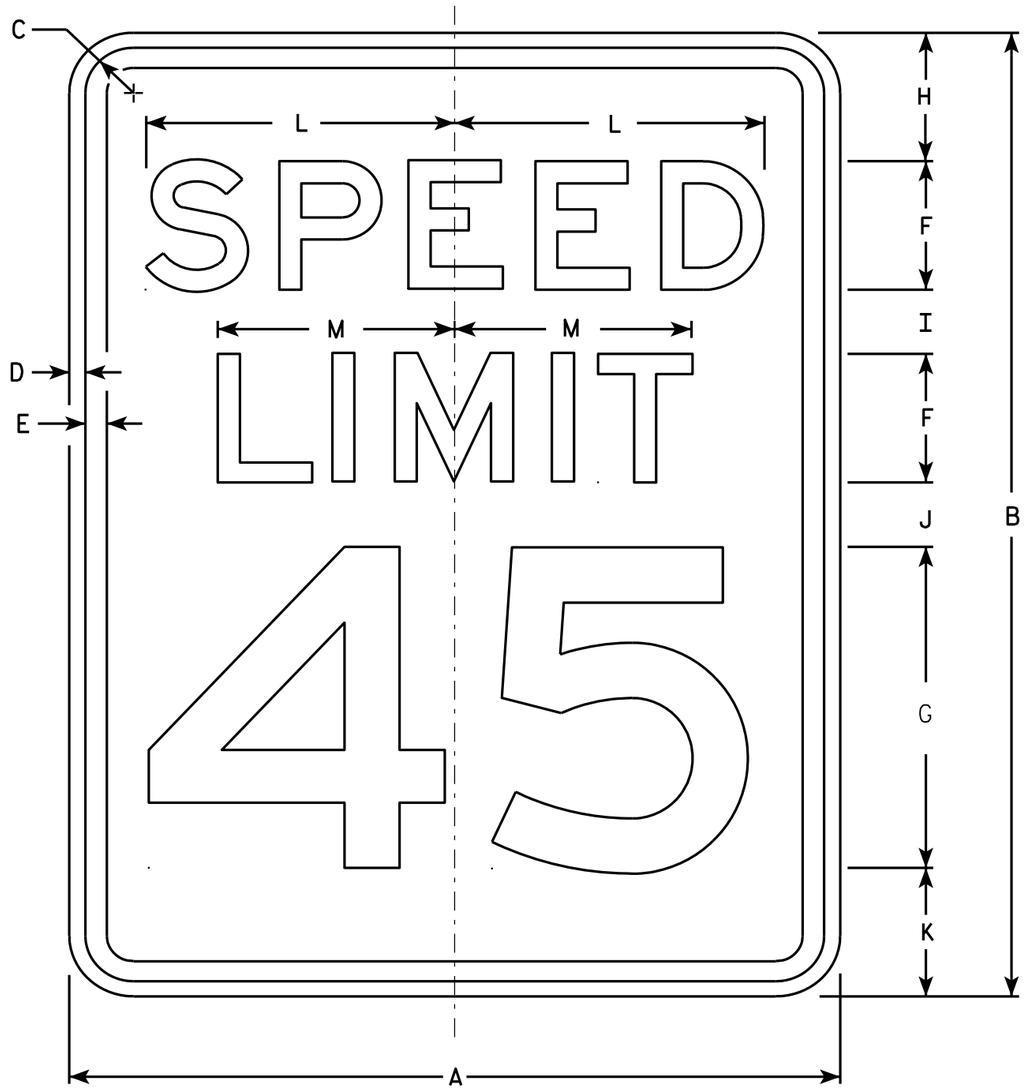
STANDARD SIGN
R1-3P

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/29/16 PLATE NO. R1-3P.3

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 151 | E



R2-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0
2S	24	30	1 1/8	3/8	1/2	4	10	3	2 1/4	3 3/8	3 3/8	9 5/8	7 3/8														5.0
2M	30	36	1 3/8	1/2	5/8	5	12	5	2 1/2	2 1/2	4	12	9 1/4														7.5
3	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
4	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
5	48	60	2 1/4	3/4	1	8	20	6	4 1/2	6 3/4	6 3/4	19 1/4	14 5/8														20.0

STANDARD SIGN
R2-1

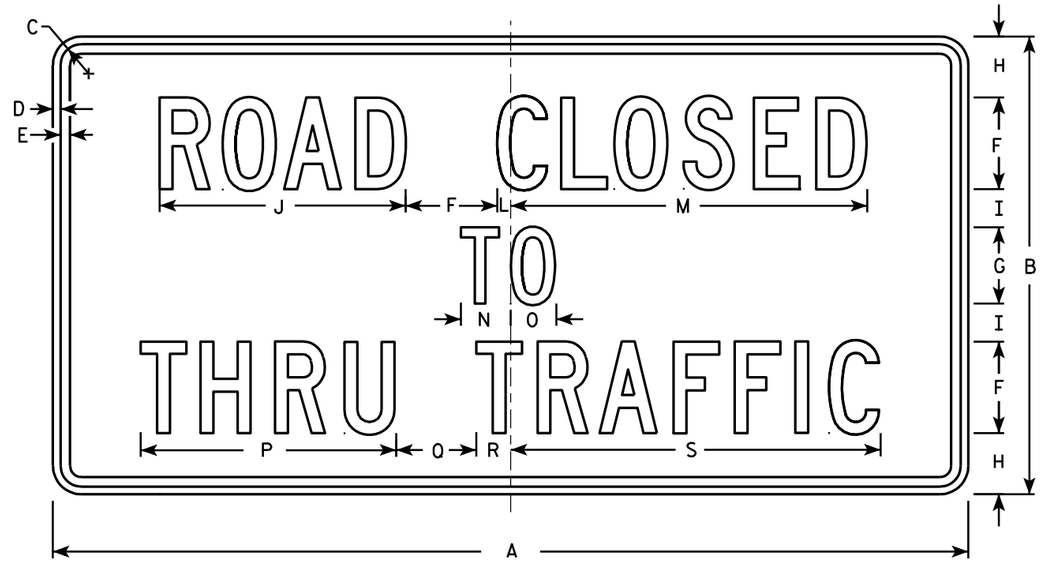
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/26/10 PLATE NO. R2-1.13

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 152 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R21.DGN PLOT DATE : 28-MAY-2010 08:32 PLOT BY : ditjph PLOT NAME : PLOT SCALE : 4.717577:1.000000
WISDOT/CADDS SHEET 42



R11-4

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	60	30	1 3/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
2M	60	30	1 3/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
3																											
4																											
5																											

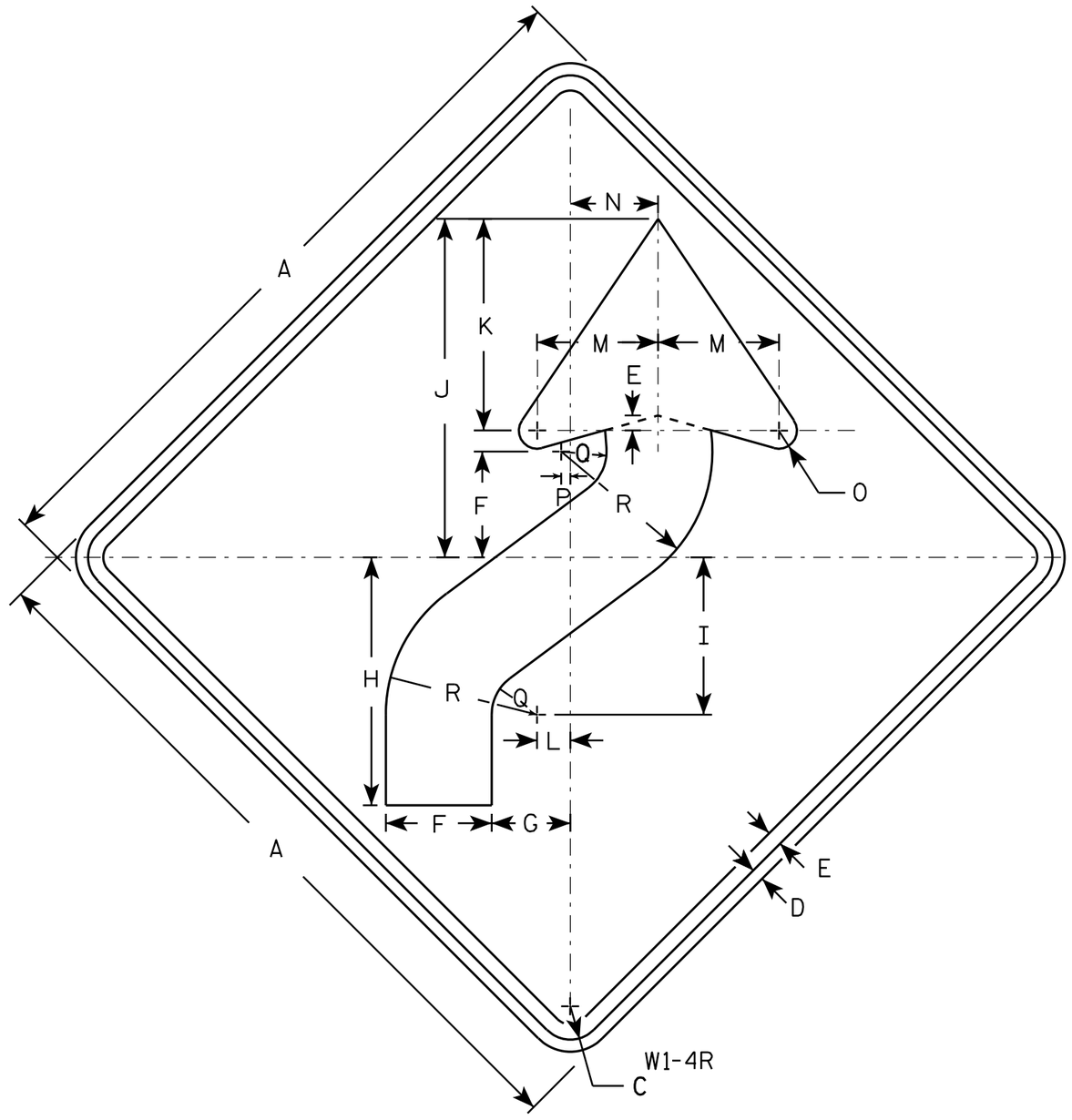
STANDARD SIGN
R11 - 4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 4/1/11 PLATE NO. R11-4.3

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 153 | E



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W1-4L is the same as W1-4R except the arrow is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	3 1/2	2 5/8	8 1/4	5 1/4	11 1/4	7	1 1/8	4	3	5/8	1/4	1 1/2	5									4.0
2S	30		1 3/8	1/2	5/8	4 3/8	3 1/4	10 1/4	6 1/2	14	8 3/4	1 3/8	5	3 5/8	3/4	3/8	1 7/8	6 1/4									6.25
2M	36		1 5/8	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
3	36		1 5/8	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
4	36		1 5/8	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
5	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0

STANDARD SIGN

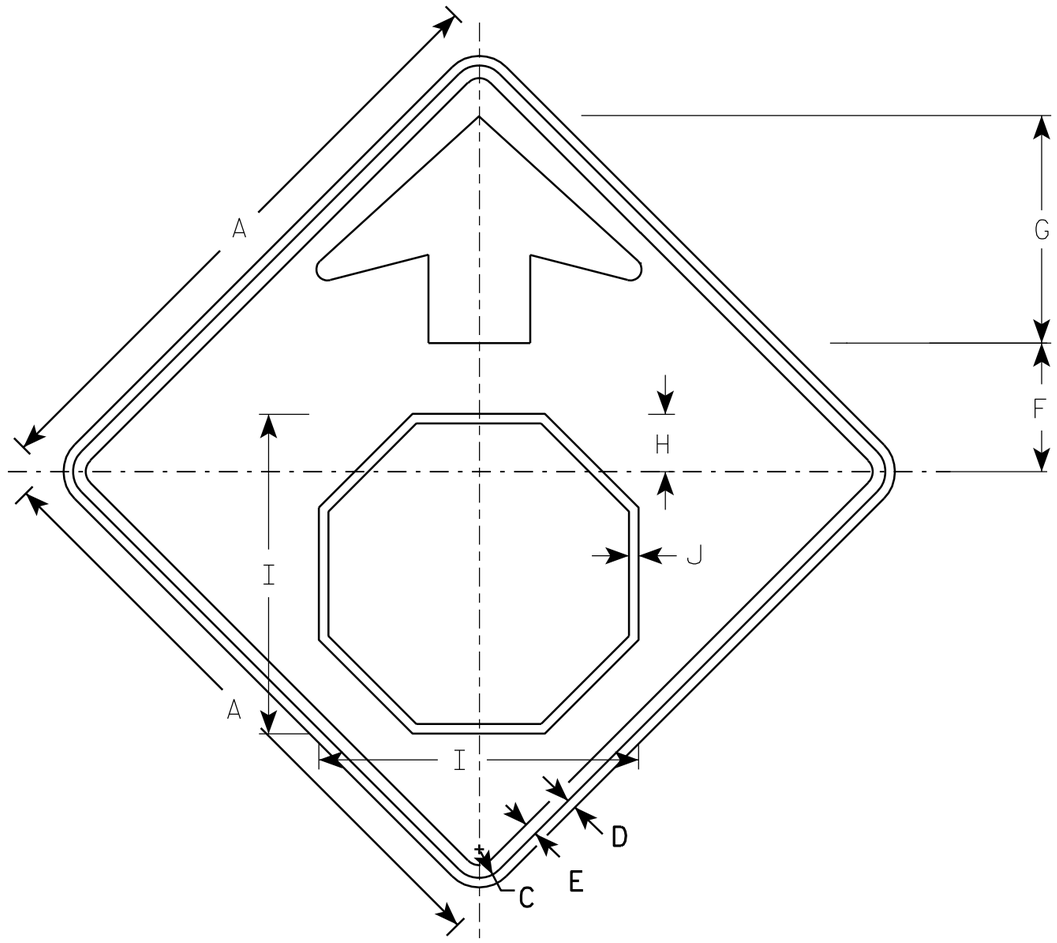
W1-4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 5/17/12 PLATE NO. W1-4.11

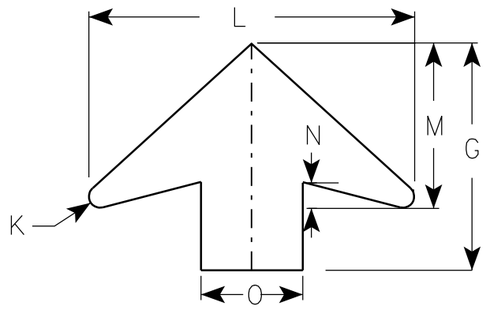
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 154 | E



W3-1

NOTES

1. All Signs Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - YELLOW
   Arrow & Border - BLACK
   Stop Symbol - WHITE BORDER ON RED BACKGROUND



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	6 1/4	11 1/4	2 7/8	15 3/4	1/2	1/2	16	8	1 1/4	5												6.25
2S	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
2M	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
3	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
4	48		2 1/4	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0
5	48		2 1/4	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0

STANDARD SIGN
W3-1

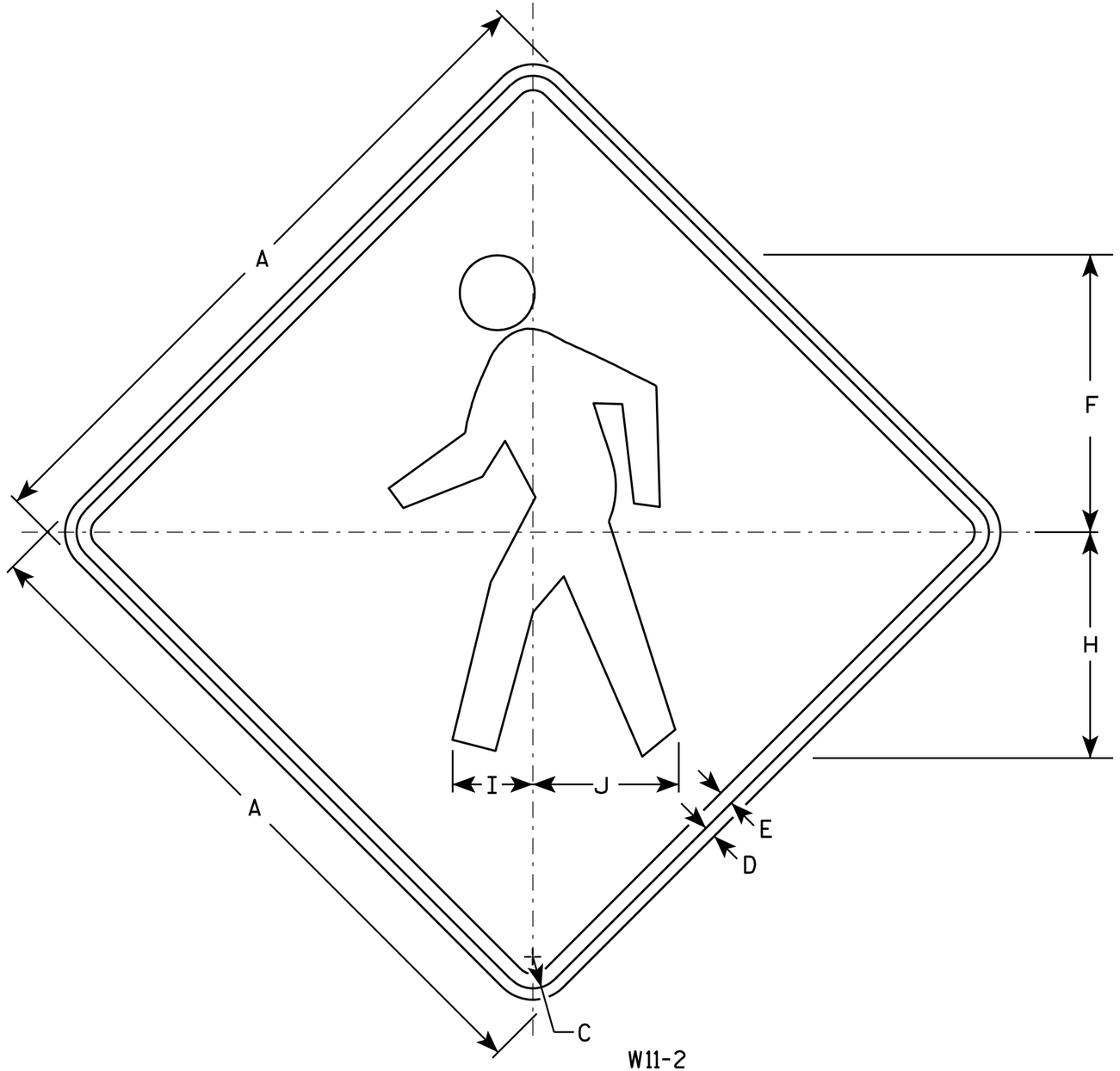
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W3-1.12

PROJECT NO:

SHEET NO: 155 E



W11-2

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	9 3/4		7 7/8	2 7/8	5 1/8																	4.0
2S	30		1 3/8	1/2	5/8	12 1/8		9 7/8	3 1/2	6 3/8																	6.25
2M	36		1 5/8	5/8	3/4	14 1/2		11 7/8	4 1/4	7 5/8																	9.0
3	36		1 5/8	5/8	3/4	14 1/2		11 7/8	4 1/4	7 5/8																	9.0
4	48		2 1/4	3/4	1	19 3/8		15 3/4	5 5/8	10 1/4																	16.0
5																											

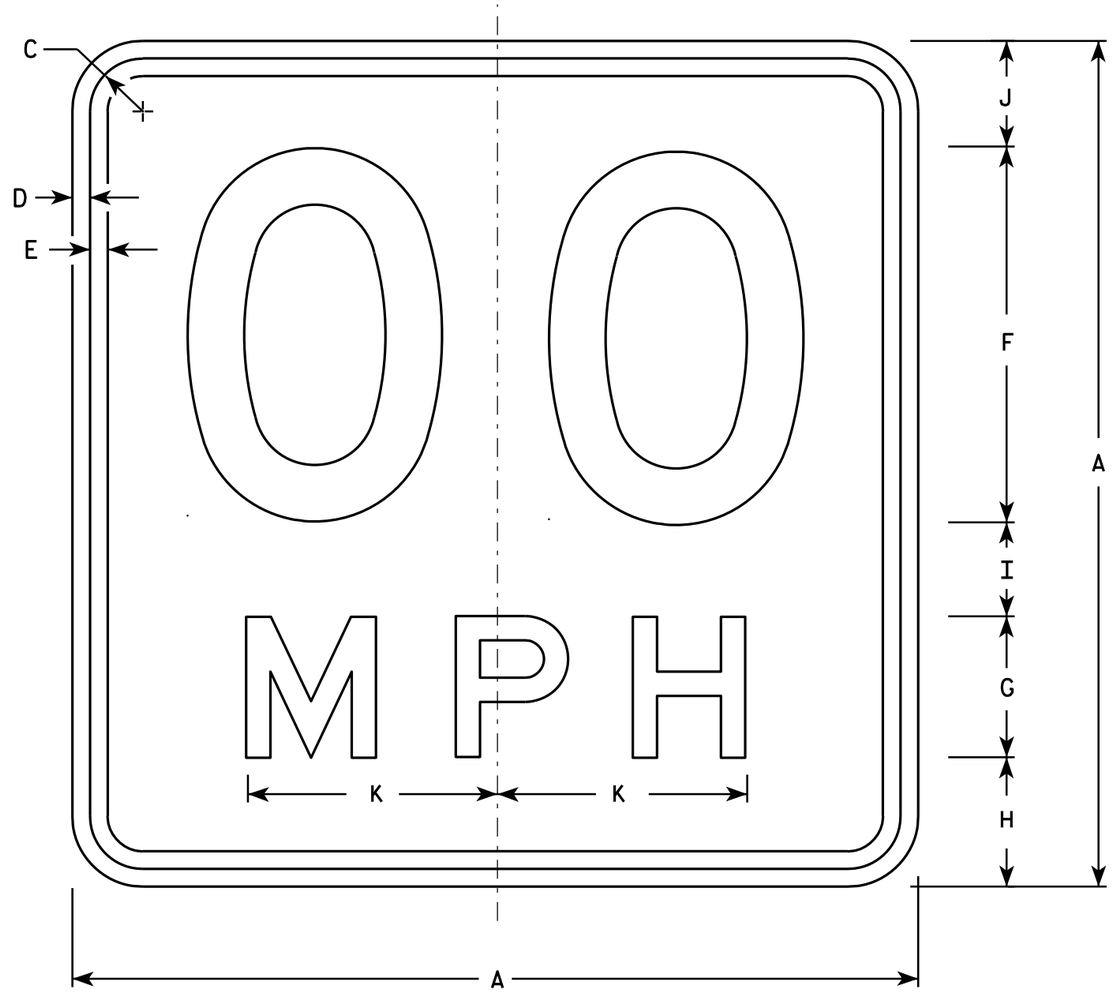
STANDARD SIGN
W11-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W11-2.7

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 156	E



W13-1

* For 30" x 30" Warning Signs, use 18" x 18" W13-1 signs.
For 36" x 36" Warning Signs, use 24" x 24" W13-1 signs.

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - See Note 6
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically space about centerline to achieve proper balance.
6. Line 1 is Series D
   Line 2 is Series E

	SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
	1	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
*	2S	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
*	2M	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
	3	24		1 1/8	3/8	1/2	10	4	4	2 3/4	3 1/4	6 5/8																4.00
	4	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
	5	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00

STANDARD SIGN
W13-1

WISCONSIN DEPT OF TRANSPORTATION

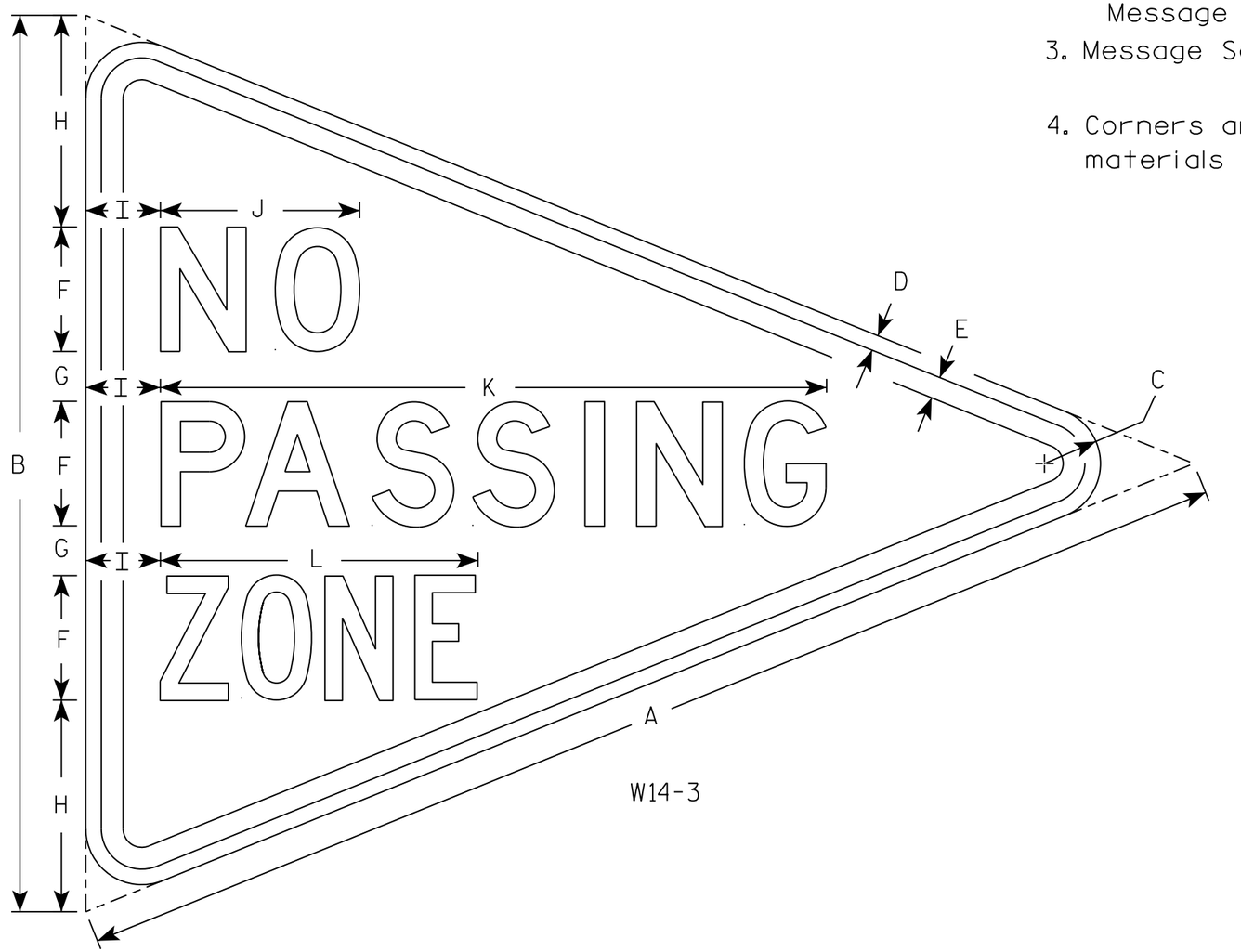
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 5/31/12 PLATE NO. W13-1.16

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 157 | E

NOTES

1. Sign is Type II- Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - Lines 1 and 2 are Series D.
   Line 3 is series C.
4. Corners and borders shall be rounded on all base materials for this sign.



W14-3

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	36	2 1/4	5/8	7/8	5	2	8 1/2	3	8	26 3/4	12 3/4															5.56
2M																											
3																											
4																											
5																											

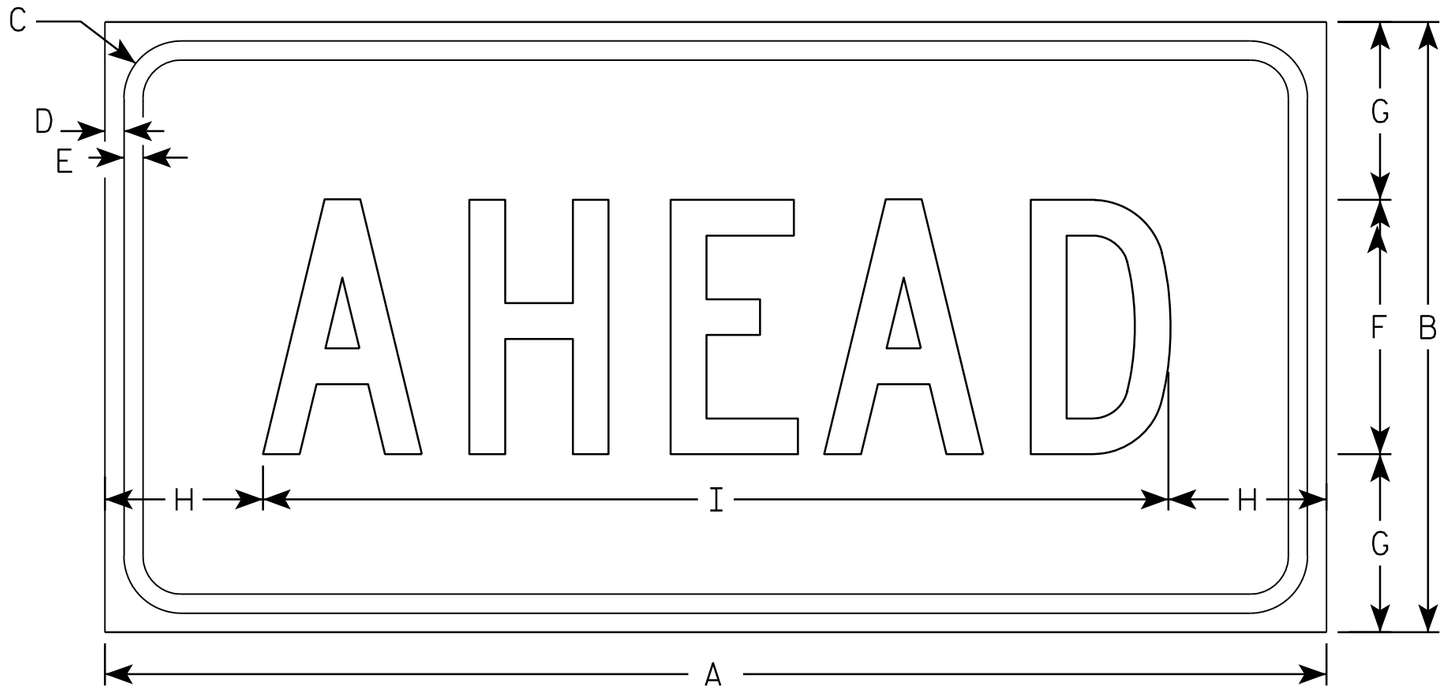
STANDARD SIGN
W14-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/21/17 PLATE NO. W14-3.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 158 | E



W16-9P

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	12	1 1/8	3/8	3/8	5	3 1/2	3 1/8	17 3/4																		2.0
2M	30	18	1 1/8	3/8	1/2	7	5 1/2	2 3/4	24 1/2																		3.75
3	30	18	1 1/8	3/8	1/2	7	3 1/2	2 3/4	24 1/2																		3.75
4	48	24	1 3/8	1/2	5/8	10	7	6 1/8	35 3/4																		8.0
5																											

STANDARD SIGN
W16-9P

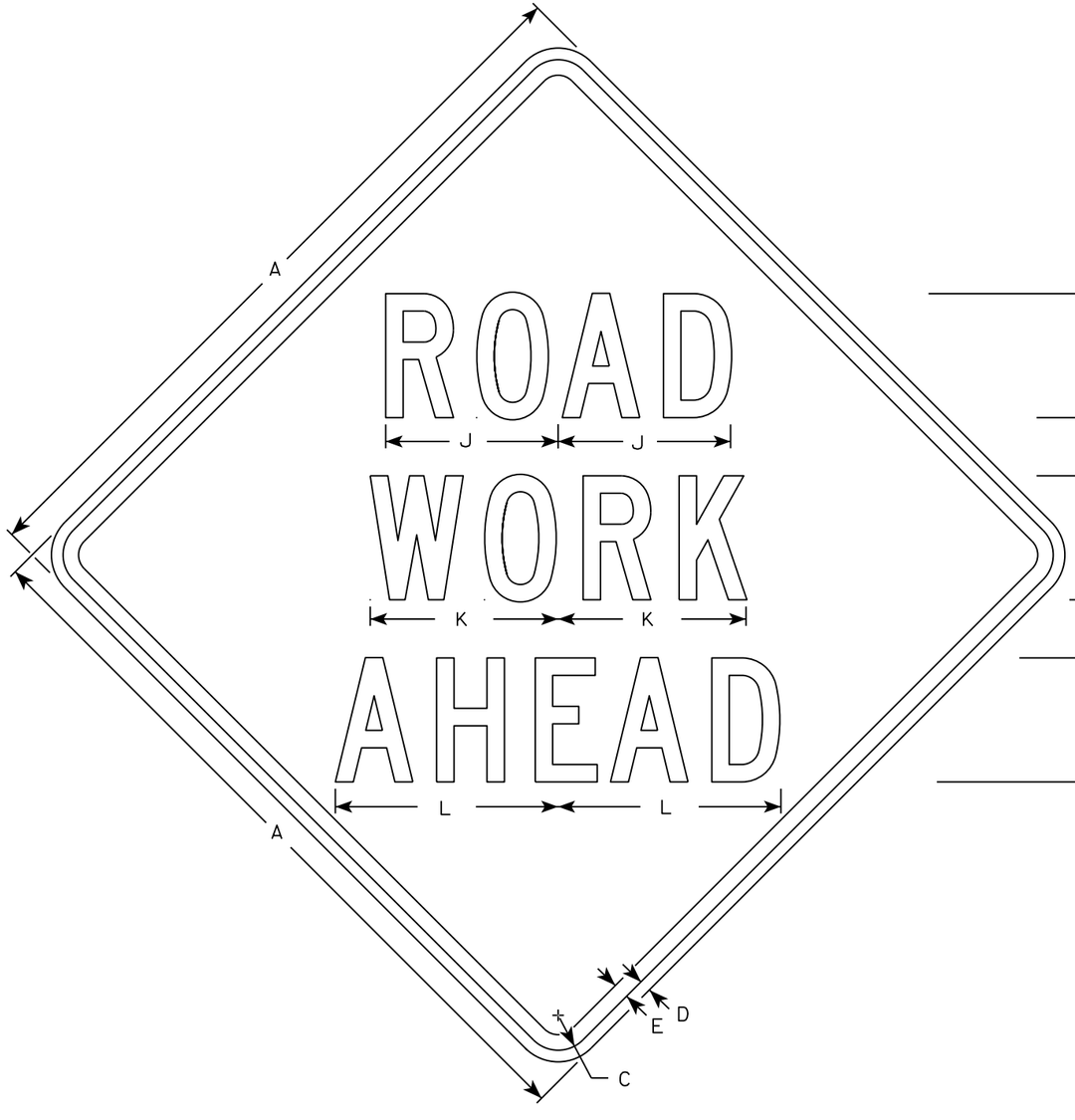
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

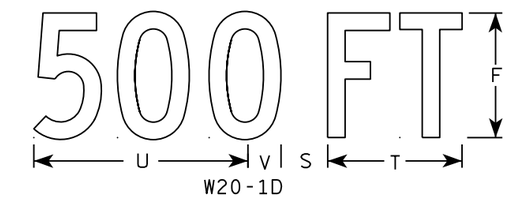
DATE 12/28/10 PLATE NO. W16-9P.6

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 159 | E

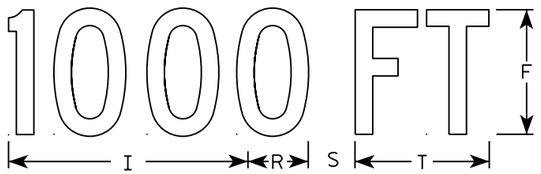
FILE NAME : C:\Users\PROJECTS\tr_stdplate\W169P.DGN PLOT DATE : 28-DEC-2010 13:39 PLOT BY : dotsja PLOT NAME : PLOT SCALE : 2.979524:1.000000
WISDOT/CADDS SHEET 42



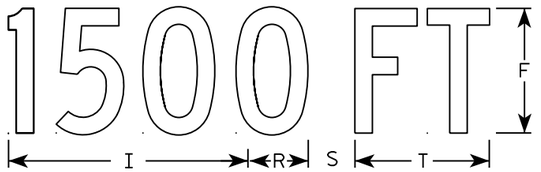
W20-1A



W20-1D

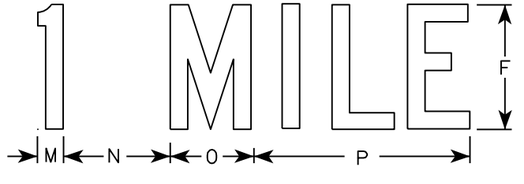


W20-1C

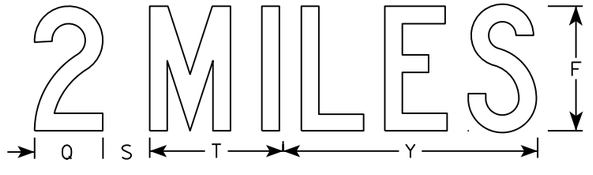


W20-1B

W20-1G



W20-1F



W20-1E

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 3/8	1/2	5/8	5	2 5/8	3 1/4	10 1/8	7	7 5/8	8 7/8	1 1/8	4 1/2	3 1/2	9		2 1/2	2 1/4	5 5/8	9	1 3/8	8	1 3/4	10 3/4	6	9.0
2S	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
2M	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
3	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
4	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
5	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0

STANDARD SIGN
W20-1A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

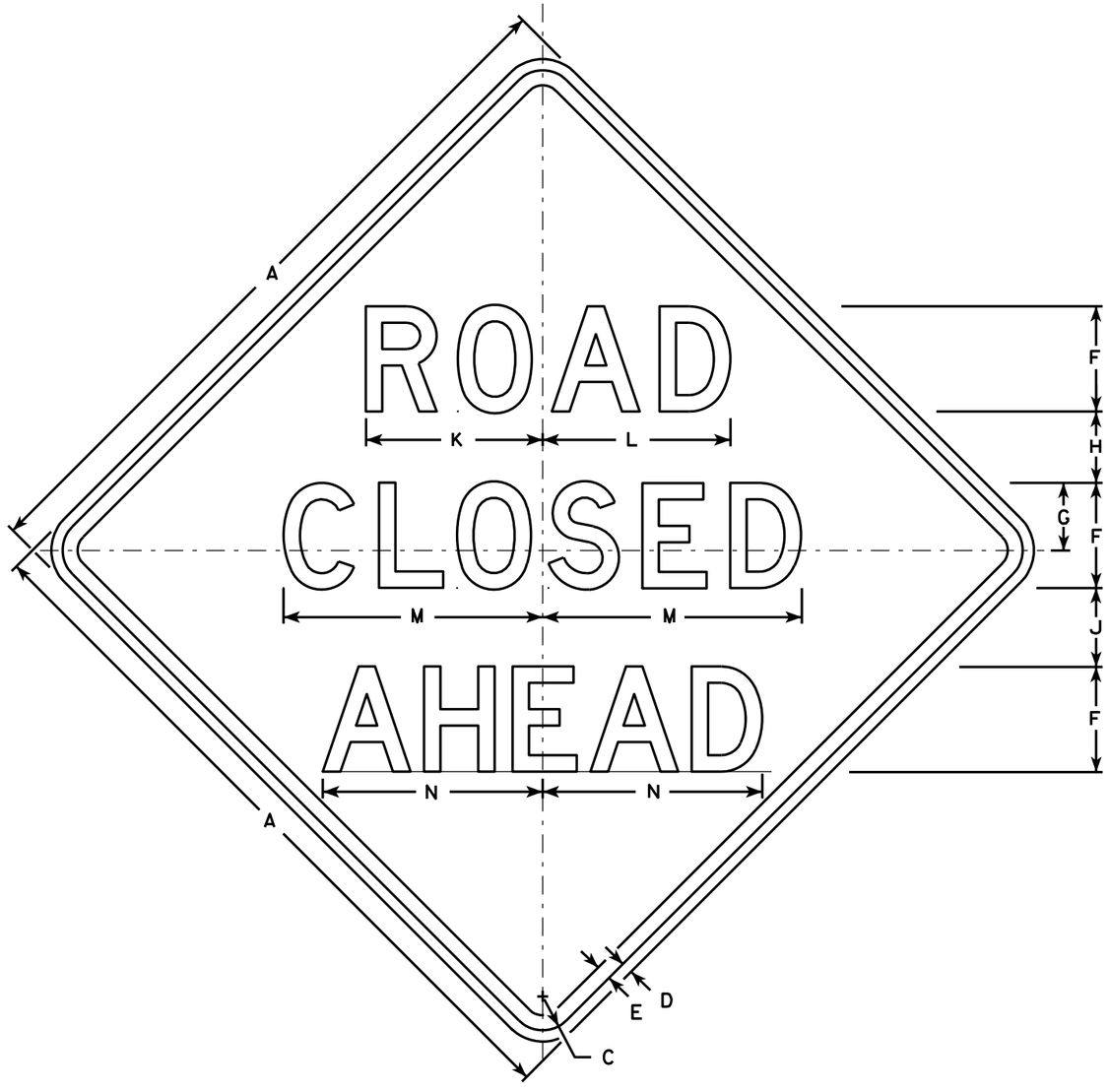
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/07/15 PLATE NO. W20-1.10

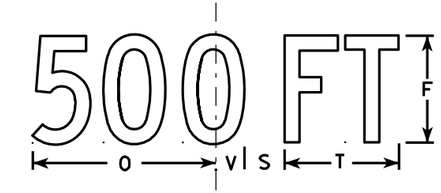
PROJECT NO:

SHEET NO: E

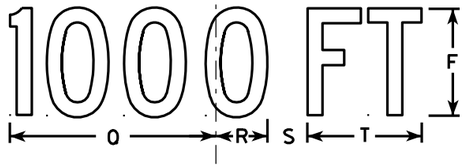
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W201.DGN PLOT DATE : 01-DEC-2015 18:24 PLOT BY : $$ plotuser $$



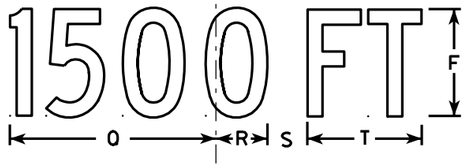
W20-3A



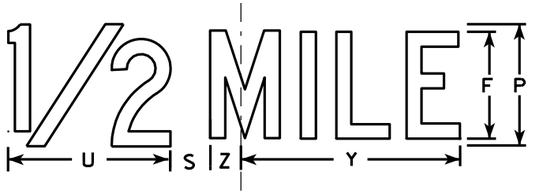
W20-3D



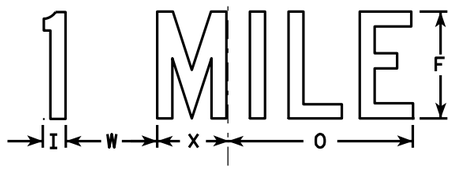
W20-3C



W20-3B



W20-3G



W20-3F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - see note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1 and 2 are Series D.
   Line 3 is Series D for AHEAD and Series C for all other distances.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5	3 3/8	3 1/2	1 1/8	4	8 3/8	8 7/8	12 1/2	11	9	6	10 1/8	2 1/2	1 7/8	5 5/8	8	1 3/8	4 1/2	3 1/2	10 3/4	1 3/4	9.0
2S	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
2M	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
3	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
4	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
5	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0

STANDARD SIGN
W20-3A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer
DATE 3/18/11 PLATE NO. W20-3.7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 161 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W203.DGN PLOT DATE : 18-MAR-2011 12:08 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 9.931739:1.000000

WISDOT/CADDS SHEET 42

7

7

		WEST FRONTAGE ROAD									
		AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY) (Unadjusted)			Unadjusted
		Cut	Salvaged/Unusable	Fill	Cut	Salvaged/Unusable	Fill	Cut	Salvaged/Unusable	Fill	Mass
STATION	Distance		Pavement Material			Pavement Material		1.00	Pavement Material	1.00	Ordinate
4680+00	0.00	120.42	33	0.94	0	0	0	0	0	0	0
4680+50	50.00	108.76	25	3.68	212	54	4	212	54	4	154
4681+00	50.00	101.06	19	2.87	194	41	6	406	95	10	301
4681+50	50.00	88.69	18	6.55	176	34	9	582	129	19	434
4682+00	50.00	79.75	15	9.10	156	30	14	738	159	34	546
4682+50	50.00	69.08	11	12.33	138	24	20	876	183	53	640
4683+00	50.00	59.23	8	15.09	119	18	25	995	201	79	715
4683+50	50.00	61.63	4	15.59	112	12	28	1,107	213	107	787
4684+00	50.00	51.63	0	22.12	105	4	35	1,212	217	142	853
4684+50	50.00	37.82	0	31.75	83	0	50	1,294	217	192	886
4685+00	50.00	22.97	0	48.20	56	0	74	1,351	217	266	868
4685+50	50.00	29.57	0	87.55	49	0	126	1,399	217	392	791
4686+00	50.00	30.52	0	122.99	56	0	195	1,455	217	587	652
4686+50	50.00	15.49	0	165.74	43	0	267	1,498	217	854	427
4687+00	50.00	6.05	0	204.03	20	0	342	1,517	217	1,196	105
4687+50	50.00	4.35	0	234.23	10	0	406	1,527	217	1,602	-292
4687+80	30.00	5.06	0	245.44	5	0	266	1,532	217	1,869	-553
4688+00	20.00	5.49	0	254.48	4	0	185	1,536	217	2,054	-734
4688+50	50.00	4.54	0	275.93	9	0	491	1,546	217	2,545	-1,216
4689+00	50.00	5.78	0	300.05	10	0	533	1,555	217	3,078	-1,740
4689+25	25.00	7.29	0	291.89	6	0	274	1,561	217	3,352	-2,008
4689+50	25.00	10.98	0	284.80	8	0	267	1,570	217	3,619	-2,266
4690+00	50.00	13.91	36	261.95	23	33	506	1,593	250	4,126	-2,783
4690+50	50.00	8.89	0	237.73	21	33	463	1,614	283	4,588	-3,258
4691+00	50.00	5.15	0	206.26	13	0	411	1,627	283	4,999	-3,656
4691+25	25.00	5.17	0	190.52	5	0	184	1,632	283	5,183	-3,835
4691+50	25.00	7.50	0	169.01	6	0	166	1,637	283	5,349	-3,995
4692+00	50.00	28.72	0	122.06	34	0	270	1,671	283	5,619	-4,231
4692+50	50.00	67.41	0	97.61	89	0	203	1,760	283	5,822	-4,346
4692+70	20.00	57.40	0	98.94	46	0	73	1,806	283	5,895	-4,372
4693+00	30.00	26.53	0	80.56	47	0	100	1,853	283	5,995	-4,425
4693+50	50.00	41.27	0	53.23	63	0	124	1,916	283	6,119	-4,486
4693+75	25.00	43.47	0	50.96	39	0	48	1,955	283	6,167	-4,495
4694+00	25.00	42.91	0	46.07	40	0	45	1,995	283	6,212	-4,500
4694+50	50.00	82.79	1	37.53	116	1	77	2,111	284	6,289	-4,462
4694+55	5.00	86.02	1	36.82	16	0	7	2,127	284	6,296	-4,453
4695+00	45.00	140.49	10	23.97	189	9	51	2,316	293	6,347	-4,325
4695+50	50.00	221.83	20	13.17	335	28	34	2,651	321	6,381	-4,052
4695+75	25.00	229.07	20	8.67	209	19	10	2,860	340	6,391	-3,872
4696+00	25.00	258.16	31	5.80	226	24	7	3,085	364	6,398	-3,676
4696+25	25.00	296.95	36	3.31	257	31	4	3,342	395	6,402	-3,454
4696+50	25.00	294.59	36	10.69	274	33	6	3,616	428	6,409	-3,220
4697+00	50.00	132.19	36	53.19	395	67	59	4,011	495	6,468	-2,951
4697+50	50.00	210.07	36	28.07	317	67	75	4,328	561	6,543	-2,776
4698+00	50.00	196.05	32	28.90	376	63	53	4,704	625	6,596	-2,516
4698+50	50.00	186.41	30	22.48	354	58	48	5,058	683	6,643	-2,268
4699+00	50.00	206.19	30	15.52	364	56	35	5,422	739	6,679	-1,995
4699+50	50.00	247.07	30	11.20	420	55	25	5,842	794	6,703	-1,655
4700+00	50.00	254.68	29	10.26	465	54	20	6,306	848	6,723	-1,265
4700+50	50.00	156.84	29	11.79	381	54	20	6,687	902	6,744	-958
4701+00	50.00	86.32	28	13.16	225	52	23	6,912	954	6,767	-809

(CONTINUED FROM PREVIOUS SHEET)

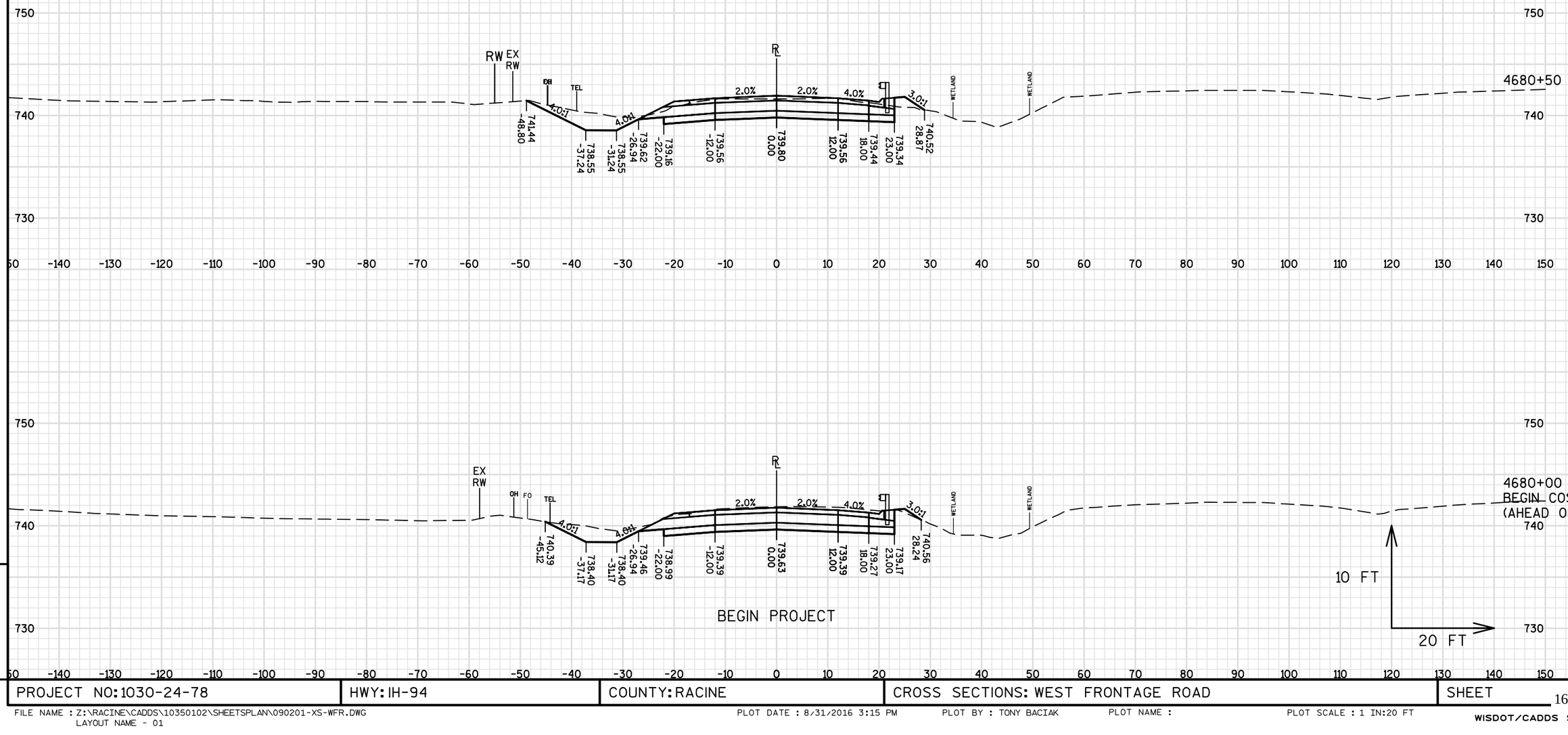
		WEST FRONTAGE ROAD									
		AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY) (Unadjusted)			Unadjusted
		Cut	Salvaged/Unusable	Fill	Cut	Salvaged/Unusable	Fill	Cut	Salvaged/Unusable	Fill	Mass
STATION	Distance		Pavement Material			Pavement Material		1.00	Pavement Material	1.00	Ordinate
4701+50	50.00	83.25	28	14.07	157	51	25	7,069	1,006	6,792	-728
4702+00	50.00	84.05	28	16.60	155	52	28	7,224	1,057	6,820	-653
4702+50	50.00	85.95	31	16.31	157	55	30	7,382	1,112	6,851	-581
4702+75	25.00	89.14	34	14.49	81	30	14	7,463	1,142	6,865	-544
4703+00	25.00	93.56	34	11.65	85	31	12	7,547	1,173	6,877	-503
4703+16	16.00	97.13	35	10.26	56	20	6	7,604	1,194	6,884	-473
4703+30	14.00	99.28	36	9.71	51	18	5	7,655	1,212	6,889	-446
4703+50	20.00	99.39	36	8.45	74	27	7	7,728	1,239	6,896	-406
4703+55	5.00	99.72	36	8.17	18	7	2	7,747	1,245	6,897	-396
4703+80	25.00	100.30	36	8.52	93	33	8	7,839	1,279	6,905	-344
4704+00	20.00	102.37	36	6.68	75	27	6	7,915	1,305	6,911	-301
4704+50	50.00	103.88	16	5.80	191	48	12	8,105	1,353	6,922	-170
4705+00	50.00	101.57	16	12.30	190	30	17	8,296	1,383	6,939	-26
4705+50	50.00	89.96	16	14.73	177	30	25	8,473	1,413	6,964	96
4705+75	25.00	84.00	16	16.21	81	15	14	8,554	1,428	6,978	148
4706+00	25.00	76.29	16	18.82	74	15	16	8,628	1,442	6,994	191
4706+50	50.00	74.94	11	20.59	140	25	36	8,768	1,467	7,031	270
4706+75	25.00	64.30	11	22.87	64	10	20	8,832	1,477	7,051	304
4707+00	25.00	48.29	0	32.96	52	5	26	8,884	1,482	7,077	326
4707+50	50.00	26.00	0	42.39	69	0	70	8,953	1,482	7,147	325
4707+77	27.00	19.43	0	42.77	23	0	43	8,976	1,482	7,189	305
4708+00	23.00	23.73	0	44.17	18	0	37	8,994	1,482	7,226	286
4708+50	50.00	37.90	0	39.45	57	0	77	9,051	1,482	7,304	266
4709+00	50.00	53.54	2	32.01	85	2	66	9,136	1,484	7,370	282
4709+50	50.00	75.61	13	25.13	120	14	53	9,256	1,498	7,423	335
4709+98	47.50	88.61	13	24.98	144	23	44	9,400	1,521	7,467	412
4710+00	2.50	89.72	16	25.48	8	1	2	9,408	1,522	7,469	417
4710+23	22.50	92.80	16	28.33	76	13	22	9,484	1,536	7,492	457
4710+25	2.50	92.95	16	28.42	9	1	3	9,493	1,537	7,494	462
4710+48	22.50	96.94	16	34.11	79	13	26	9,572	1,550	7,520	501
4710+50	2.50	97.05	16	34.64	9	1	3	9,581	1,552	7,523	506
4710+75	25.00	97.62	16	61.80	90	15	45	9,671	1,567	7,568	536
4711+00	25.00	160.55	16	46.34	120	15	50	9,791	1,581	7,618	591
4711+25	25.00	91.05	16	0.00	116	15	21	9,907	1,596	7,640	671
2711+50	25.00	95.98	16	0.00	87	15	0	9,994	1,611	7,640	743
2711+75	16.00	108.35	16	0.00	61	9	0	10,054	1,621	7,640	794
2712+00	25.00	204.71	16	28.82	145	15	13	10,199	1,635	7,653	911
2712+25	25.00	220.91	16	4.78	197	15	16	10,396	1,650	7,669	1,078
2712+50	25.00	234.51	16	6.04	211	15	5	10,607	1,665	7,674	1,269
2713+00	50.00	255.04	16	0.00	453	30	6	11,060	1,695	7,679	1,687
2713+50	50.00	238.42	16	0.00	457	30	0	11,517	1,724	7,679	2,114
2714+00	50.00	219.14	16	0.00	424	30	0	11,941	1,754	7,679	2,508
2714+50	50.00	212.77	16	0.00	400	30	0	12,341	1,784	7,679	2,878
2714+75	25.00	205.70	16	0.00	194	15	0	12,535	1,798	7,679	3,057
2715+00	25.00	201.46	16	0.00	188	15	0	12,723	1,813	7,679	3,231
2715+25	25.00	195.81	16	0.00	184	15	0	12,907	1,828	7,679	3,400
2715+50	25.00	190.85	16	0.00	179	15	0	13,086	1,843	7,679	3,564
2715+75	25.00	176.14	16	0.00	170	15	0	13,256	1,858	7,679	3,719
2716+00	25.00	160.00	16	0.00	156	15	0	13,412	1,872	7,679	3,860
2716+50	50.00	135.69	16	1.08	274	30	1	13,685	1,902	7,680	4,103
2717+00	50.00	118.49	16	3.15	235	30	4	13,921	1,932	7,684	4,305

(CONTINUED FROM PREVIOUS SHEET)

		WEST FRONTAGE ROAD									
		AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY) (Unadjusted)			Unadjusted
		Cut	Salvaged/Unusable	Fill	Cut	Salvaged/Unusable	Fill	Cut	Salvaged/Unusable	Fill	Mass
STATION	Distance		Pavement Material			Pavement Material		1.00	Pavement Material	1.00	Ordinate
2717+50	50.00	104.06	16	6.93	206	30	9	14,127	1,961	7,693	4,472
2718+00	50.00	92.09	16	9.53	182	30	15	14,308	1,991	7,709	4,609
2718+50	50.00	83.08	16	11.91	162	30	20	14,471	2,021	7,728	4,722
2719+00	50.00	71.41	16	18.73	143	30	28	14,614	2,050	7,757	4,807
2719+50	50.00	84.82	16	18.80	145	30	35	14,758	2,080	7,792	4,887
2720+00	50.00	91.62	16	20.08	163	30	36	14,922	2,109	7,828	4,985
2720+50	50.00	96.10	16	22.25	174	30	39	15,096	2,139	7,867	5,090
2721+00	50.00	106.40	16	16.24	188	30	36	15,283	2,169	7,902	5,212
2721+50	50.00	120.26	16	13.42	210	30	27	15,493	2,198	7,930	5,365
2722+00	50.00	125.29	16	10.37	227	30	22	15,720	2,228	7,952	5,540
2722+50	50.00	139.95	16	6.29	246	30	15	15,966	2,258	7,967	5,741
2723+00	50.00	159.13	16	4.16	277	30	10	16,243	2,287	7,977	5,979
2723+50	50.00	180.12	16	1.60	314	30	5	16,557	2,317	7,982	6,258
2724+00	50.00	195.87	16	1.00	348	30	2	16,905	2,347	7,985	6,574
2724+50	50.00	212.64	16	1.00	378	30	2	17,283	2,376	7,987	6,921
2725+00	50.00	217.53	16	0.59	398	30	1	17,682	2,406	7,988	7,288
2725+50	50.00	225.34	16	0.56	410	30	1	18,092	2,435	7,989	7,667
2726+00	50.00	231.45	16	0.21	423	30	1	18,515	2,465	7,990	8,060
2726+50	50.00	242.31	16	0.00	439	30	0	18,953	2,495	7,990	8,469
2727+00	50.00	237.79	16	0.00	445	30	0	19,398	2,524	7,990	8,883
2727+50	50.00	230.44	16	0.02	434	30	0	19,831	2,554	7,990	9,287
2728+00	50.00	212.09	16	0.42	410	30	0	20,241	2,584	7,990	9,667
2728+50	50.00	200.53	16	0.70	382	30	1	20,623	2,613	7,992	10,018
2729+00	50.00	172.88	16	1.46	346	30	2	20,969	2,643	7,994	10,333
2729+50	50.00	172.92	16	2.66	320	30	4	21,289	2,672	7,997	10,619
2730+00	50.00	178.42	16	2.28	325	30	5	21,614	2,702	8,002	10,910
2730+50	50.00	175.19	16	1.54	327	30	4	21,942	2,732	8,005	11,205
2731+00	50.00	172.56	16	2.24	322	30	4	22,264	2,761	8,009	11,494
2731+30	30.00	166.11	16	1.92	188	18	2	22,452	2,779	8,011	11,662
2731+50	20.00	163.53	16	0.24	122	12	1	22,574	2,791	8,012	11,771
2732+00	50.00	159.97	16	0.10	300	30	0	22,874	2,821	8,012	12,041
2732+05	5.00	157.16	16	0.12	29	3	0	22,903	2,824	8,012	12,067
2732+50	45.00	153.51	16	14.17	259	27	12	23,162	2,850	8,024	12,287
2732+75	25.00	147.51	16	16.85	139	15	14	23,301	2,865	8,039	12,398
2733+00	25.00	145.03	16	16.35	135	15	15	23,437	2,880	8,054	12,503
2733+25	25.00	143.98	16	20.34	134	15	17	23,570	2,895	8,071	12,605
2733+50	25.00	139.84	16	20.70	131	15	19	23,702	2,909	8,090	12,702
2733+75	25.00	137.84	16	19.60	129	15	19	23,830	2,924	8,109	12,797
2734+00	25.00	139.25	16	22.54	128	15	20	23,959	2,939	8,128	12,891
2734+50	50.00	133.00	16	17.31	252	30	37	24,211	2,969	8,165	13,077
2734+75	25.00	134.11	16	19.93	124	15	17	24,334	2,984	8,182	13,169
2735+00	25.00	139.27	16	18.37	127	15	18	24,461	2,998	8,200	13,263
2735+25	25.00	151.53	16	18.12	135	15	17	24,596	3,013	8,217	13,365
2735+50	25.00	154.63	16	17.60	142	15	17	24,737	3,028	8,233	13,476
2735+75	25.00	163.04	16	17.15	147	15	16	24,884	3,043	8,250	13,592
2736+00	25.00	170.23	16	13.40	154	15	14	25,039	3,058	8,264	13,717
2736+45	45.00	171.39	16	6.92	285	27	17	25,323	3,084	8,281	13,958
2736+50	5.00	174.76	16	7.25	32	3	1	25,355	3,087	8,282	13,986
2736+95	45.00	202.46	16	3.60	314	27	9	25,670	3,114	8,291	14,265
2737+00	5.00	207.07	16	3.47	38	3	1	25,708	3,117	8,292	14,299
WEST FRONTAGE ROAD TOTAL					**25,708**	**3,117**	**8,292**	**25,708**	**3,117**	**8,292**	**14,299**

STATION	Distance	BRAUN ROAD AREA (SF) Cut	Salvaged/Unusable Pavement Material	Fill	Incremental Vol (CY) (Unadjusted) Cut	Salvaged/Unusable Pavement Material	Fill	Cumulative Vol (CY) Cut 1.00	Salvaged/Unusable Pavement Material	Expanded Fill 1.20	Mass Ordinate
47+50	0.00	73.87	0	0.00	0	0	0	0	0	0	0
48+00	50.00	89.70	6	0.00	151	6	0	151	6	0	146
48+50	50.00	88.20	6	0.72	165	11	1	316	17	1	299
49+00	50.00	125.45	6	18.68	198	11	18	514	28	22	464
49+20 (BK)	20.00	180.39	6	17.88	113	4	14	627	32	39	556
50+25 (AH)	0.00	88.48	9	16.88	0	0	0	627	32	39	556
50+30	5.00	84.69	13	10.91	16	2	3	643	34	42	567
50+50	20.00	35.71	18	0.93	45	11	4	688	46	47	595
50+65	15.00	6.23	18	0.29	12	10	0	700	56	47	596
BRAUN ROAD TOTAL					**700**	**56**	**39**	**700**	**56**	**47**	**596**

STATION	Distance	PRIVATE DRIVEWAY "W" AREA (SF) Cut	Salvaged/Unusable Pavement Material	Fill	Incremental Vol (CY) (Unadjusted) Cut	Salvaged/Unusable Pavement Material	Fill	Cumulative Vol (CY) Cut 1.00	Salvaged/Unusable Pavement Material	Expanded Fill 1.20	Mass Ordinate
100+23	0.00	7	0	0	0	0	0	0	0	0	0
100+25	2.49	8	0	0	1	0	0	1	0	0	1
100+50	25.00	86	0	0	43	0	0	44	0	0	44
100+75	25.00	115	0	2	93	0	1	137	0	1	136
101+00	25.00	49	0	7	76	0	4	213	0	6	207
101+25	25.00	48	0	6	45	0	6	257	0	13	244
101+50	25.00	84	0	0	61	0	3	319	0	17	302
101+75	25.00	156	0	0	111	0	0	430	0	17	413
101+99	23.67	0	0	16	68	0	7	498	0	25	473
PRIVATE DRIVEWAY "W" TOTAL					**498**	**0**	**21**	**498**	**0**	**25**	**473**

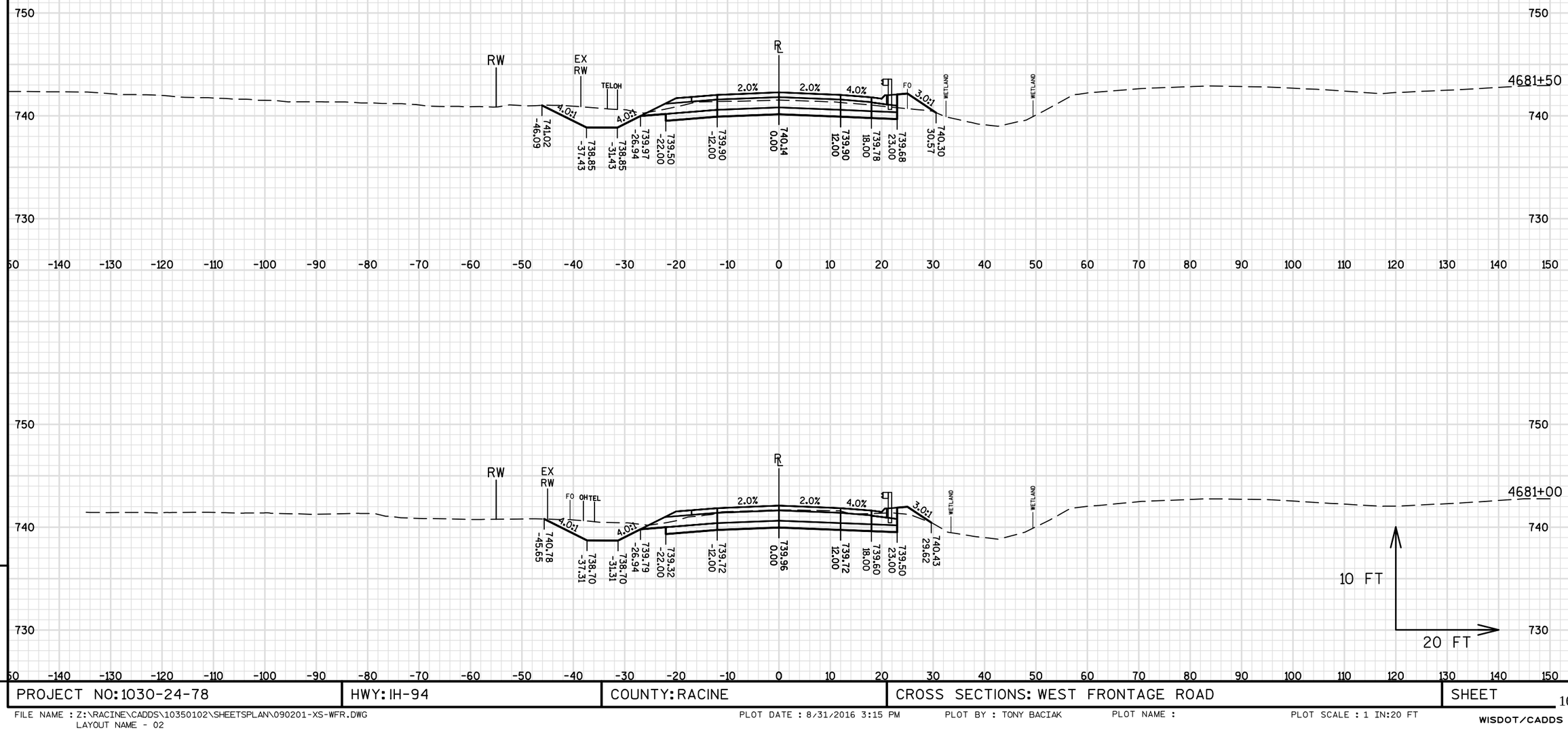


PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-WFR.DWG
LAYOUT NAME - 01

PLOT DATE : 8/31/2016 3:15 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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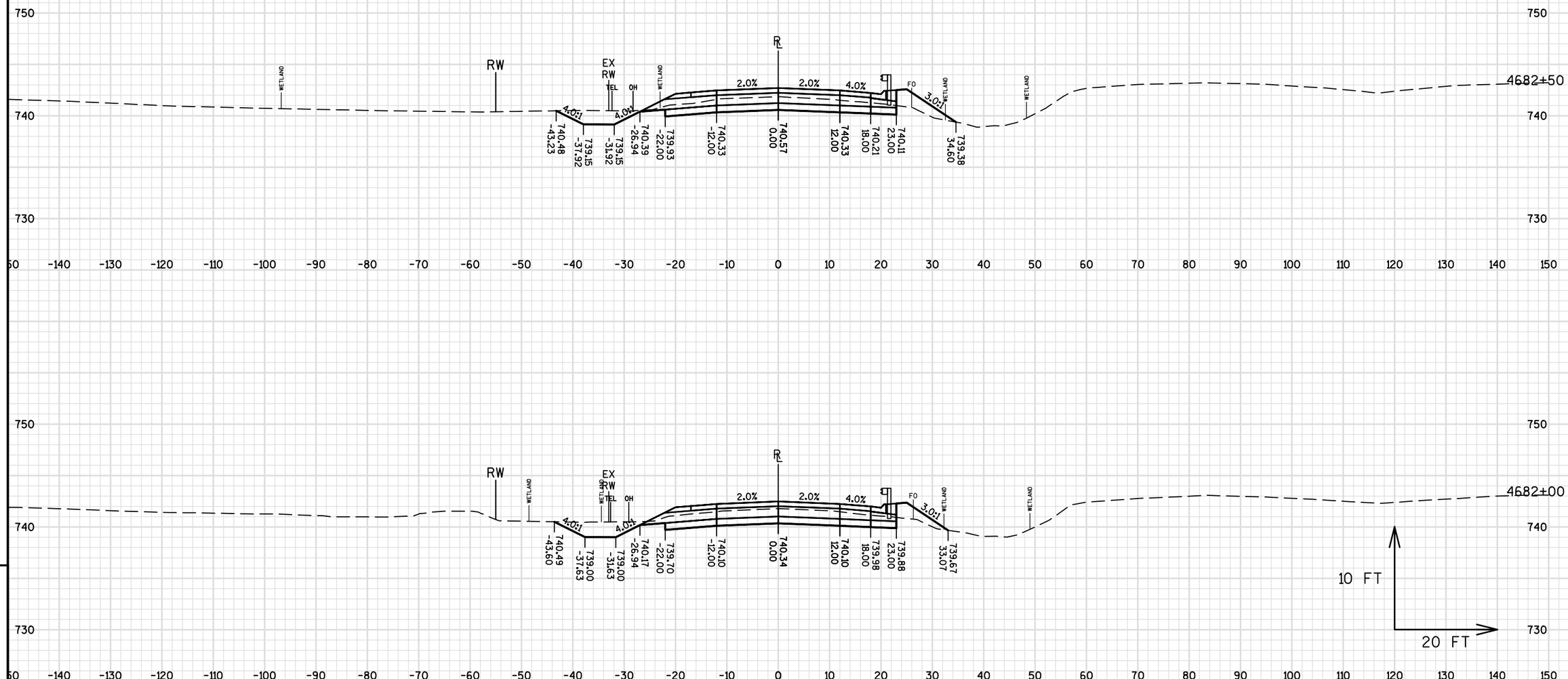
PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 167	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-WFR.DWG
LAYOUT NAME - 02

PLOT DATE : 8/31/2016 3:15 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

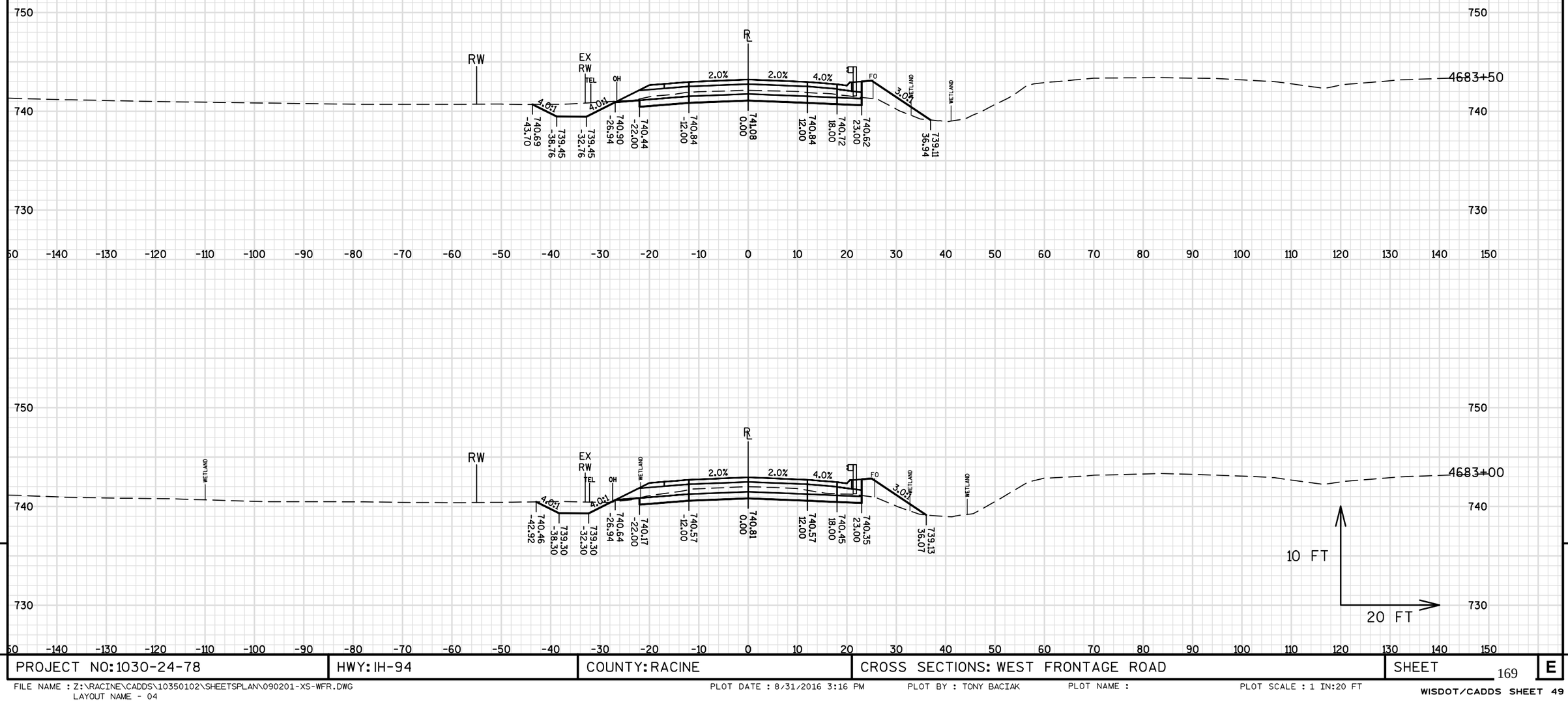


PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 168	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-WFR.DWG
LAYOUT NAME - 03

PLOT DATE : 8/31/2016 3:15 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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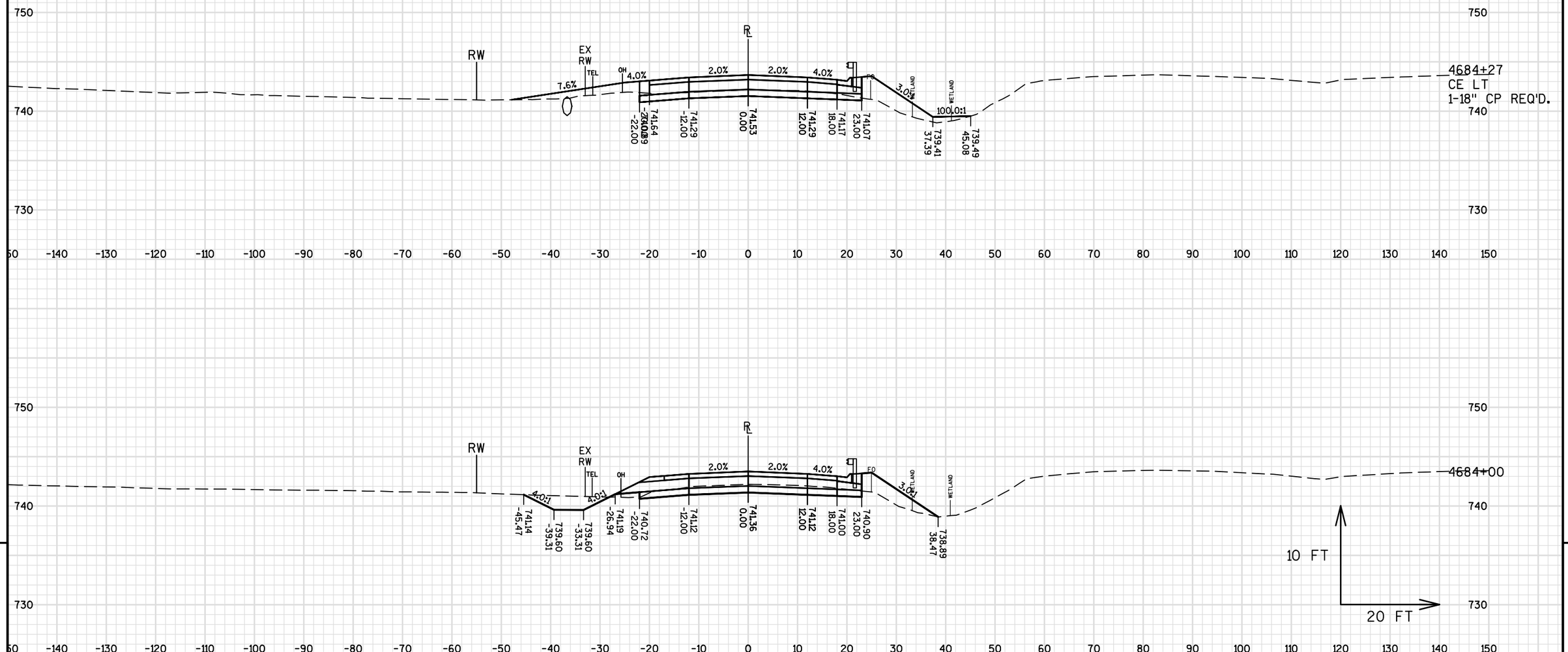
PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 169 E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-WFR.DWG
LAYOUT NAME - 04

PLOT DATE : 8/31/2016 3:16 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

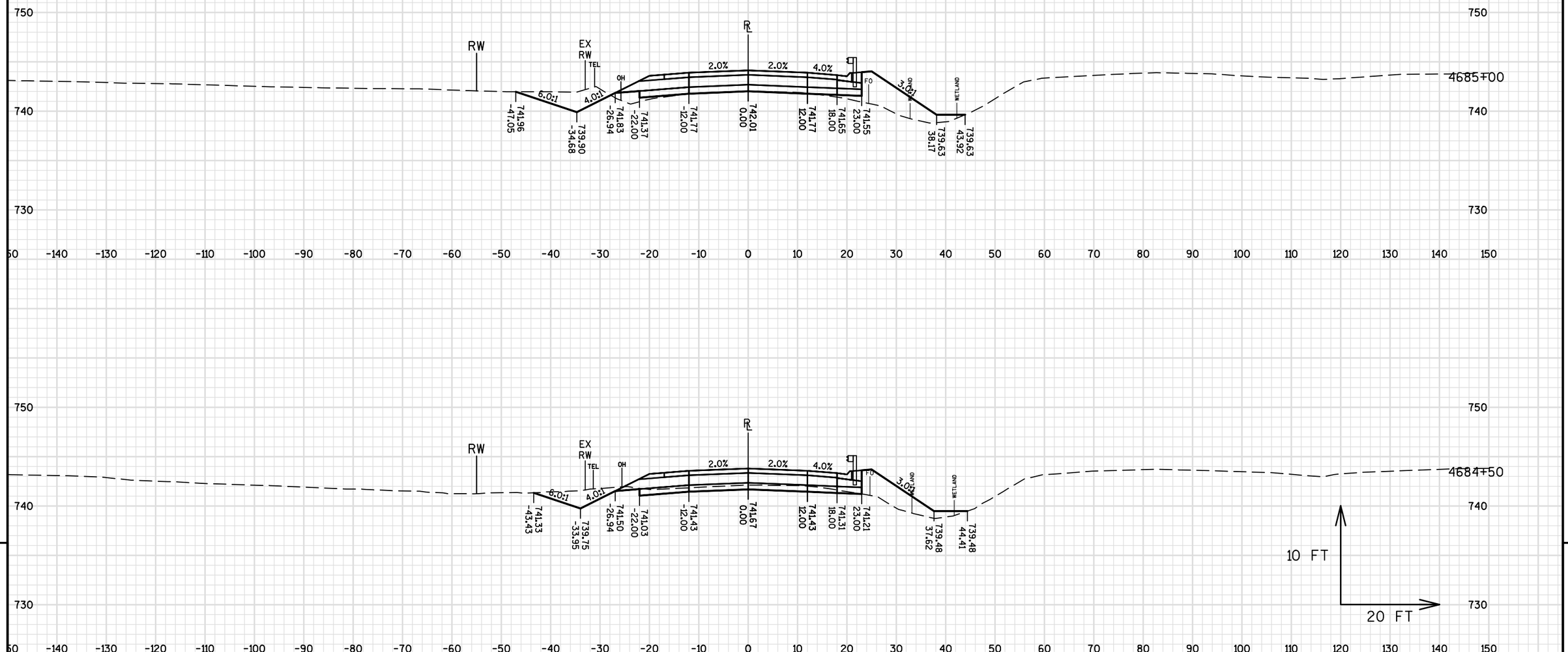


PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 170	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-WFR.DWG
LAYOUT NAME - 05

PLOT DATE : 8/31/2016 3:16 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

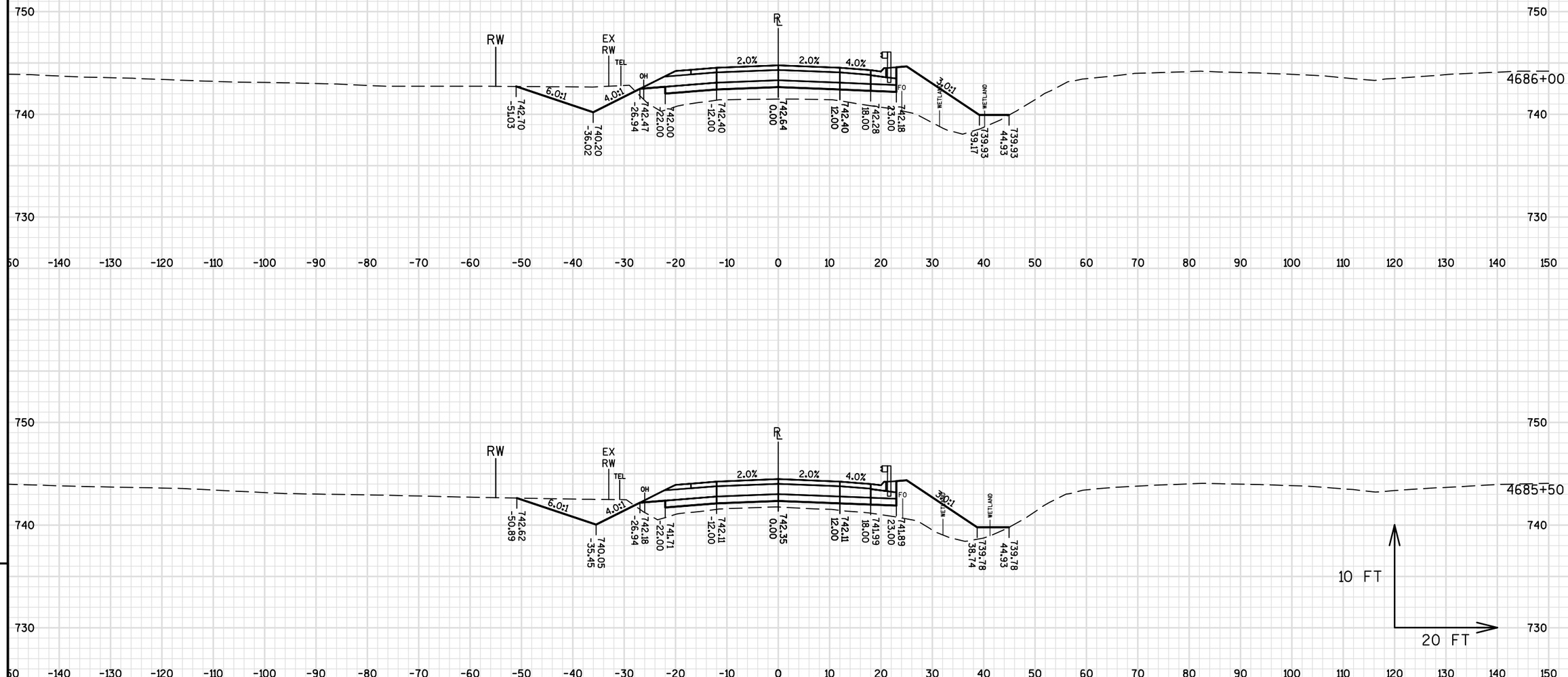


PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 171 E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-WFR.DWG
LAYOUT NAME - 06

PLOT DATE : 8/31/2016 3:16 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

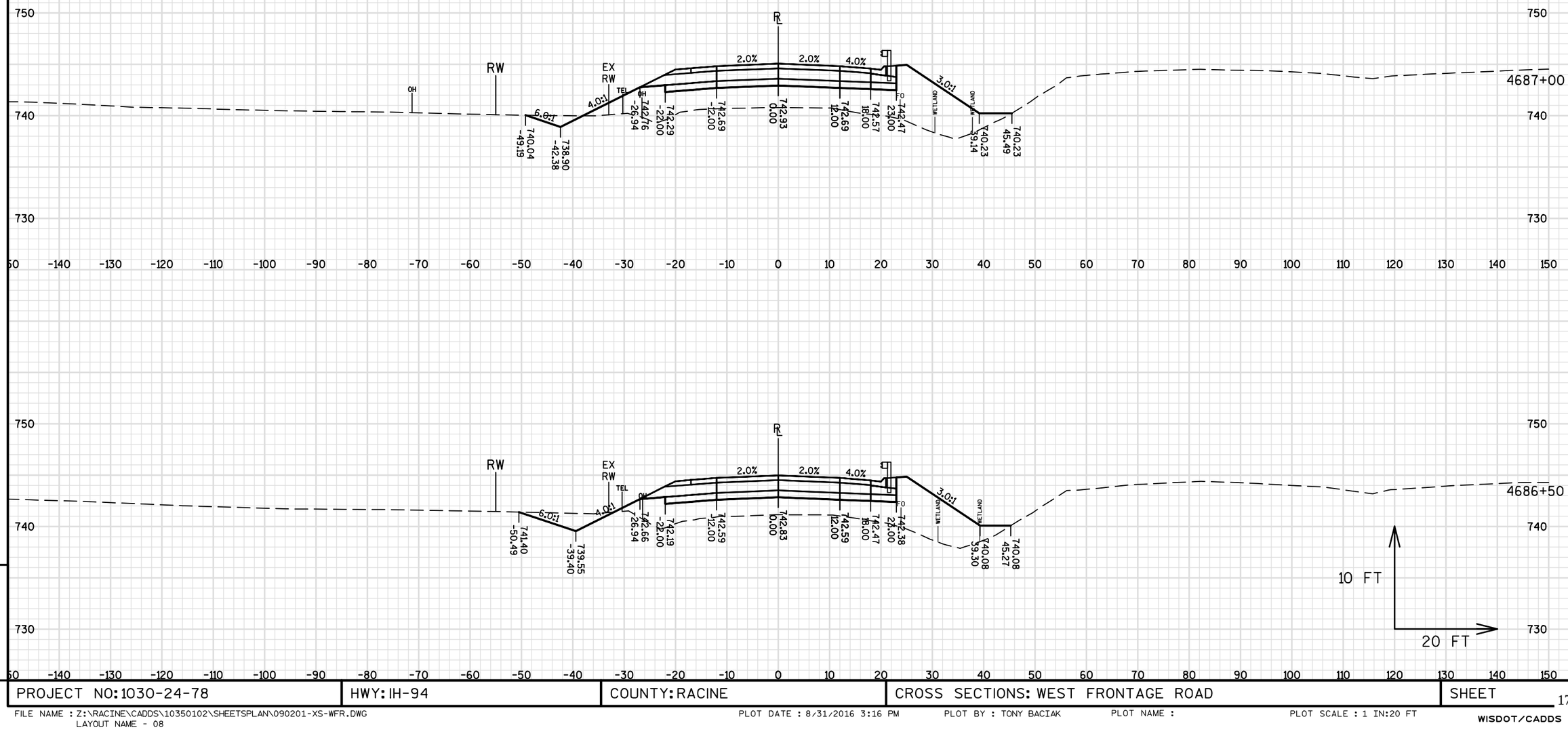


PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 172 E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-WFR.DWG
LAYOUT NAME - 07

PLOT DATE : 8/31/2016 3:16 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

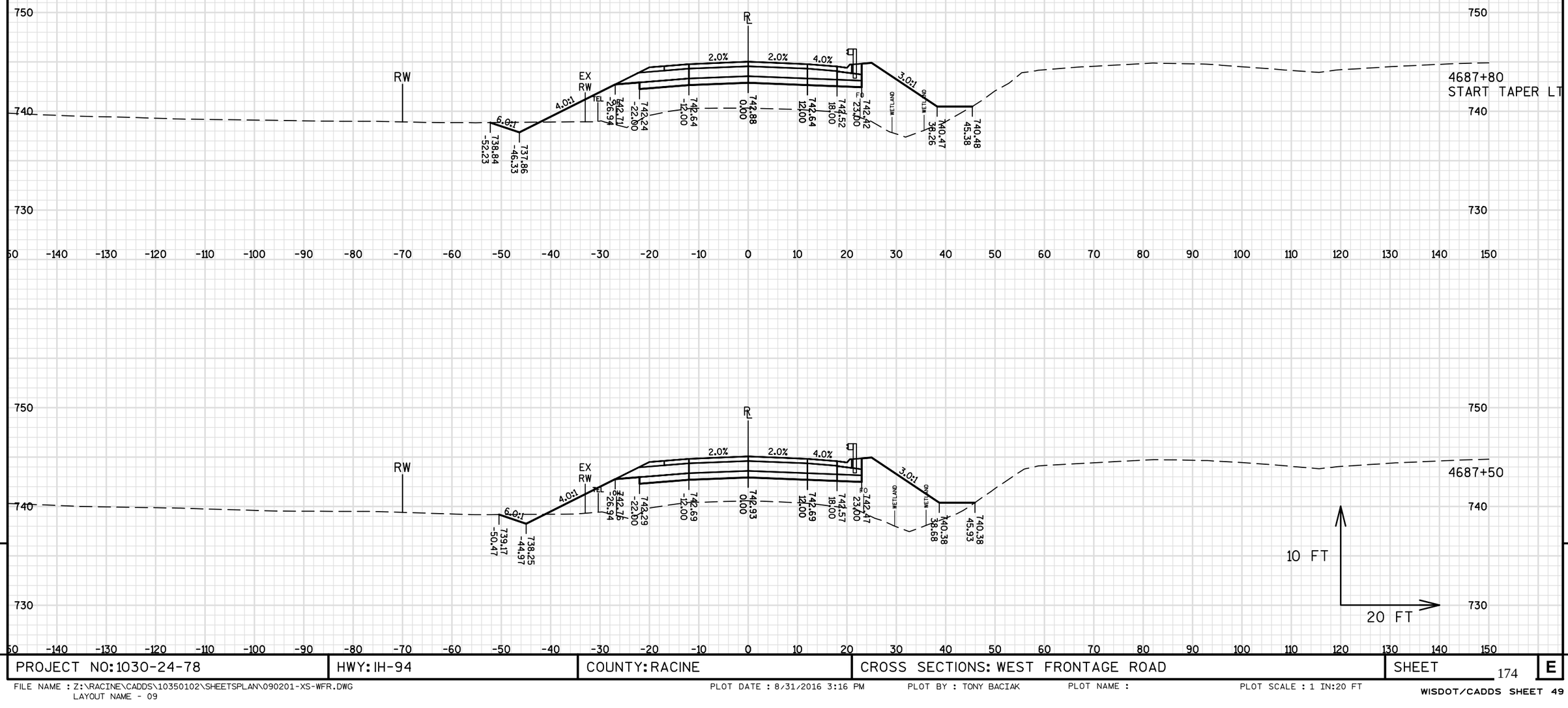


PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 173 E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-WFR.DWG
LAYOUT NAME - 08

PLOT DATE : 8/31/2016 3:16 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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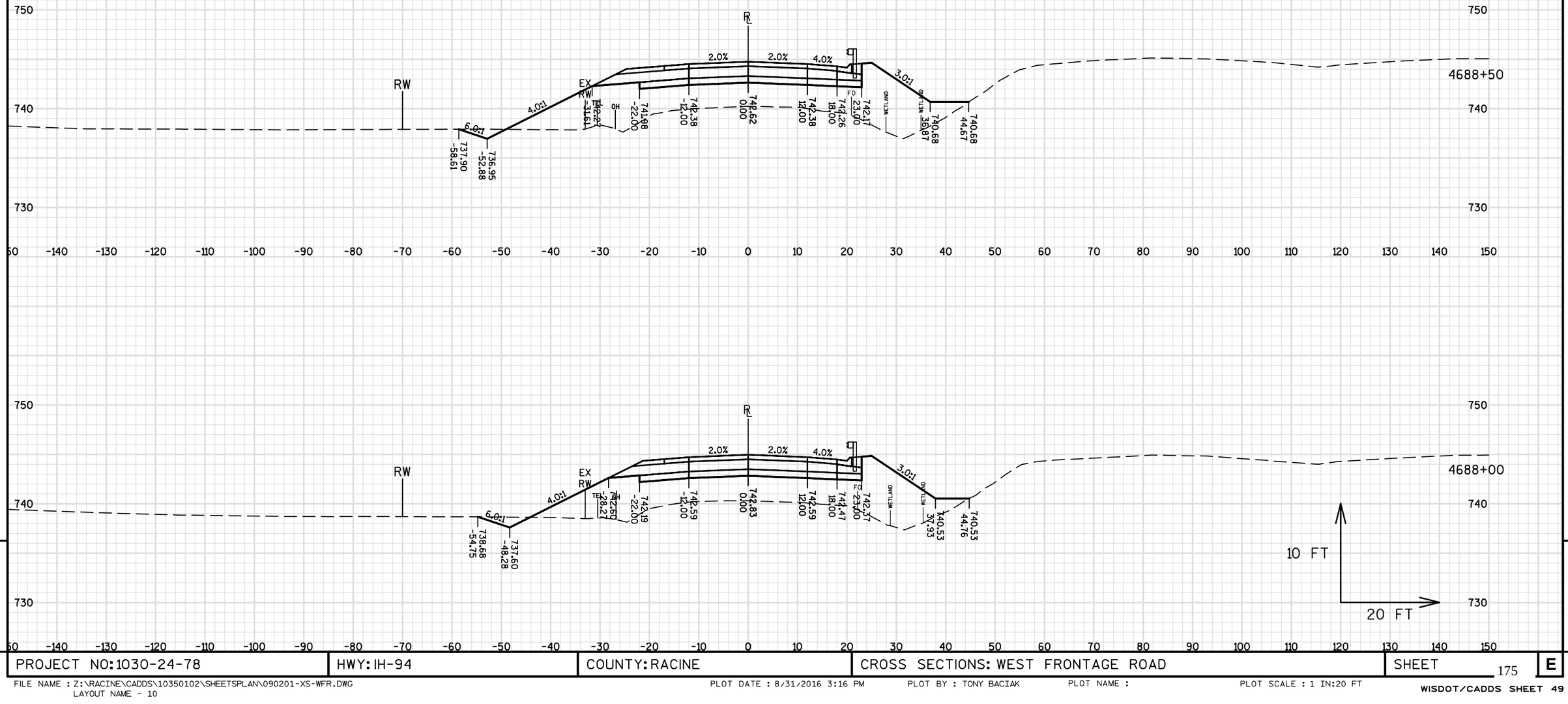
PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 174	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-WFR.DWG
LAYOUT NAME - 09

PLOT DATE : 8/31/2016 3:16 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT



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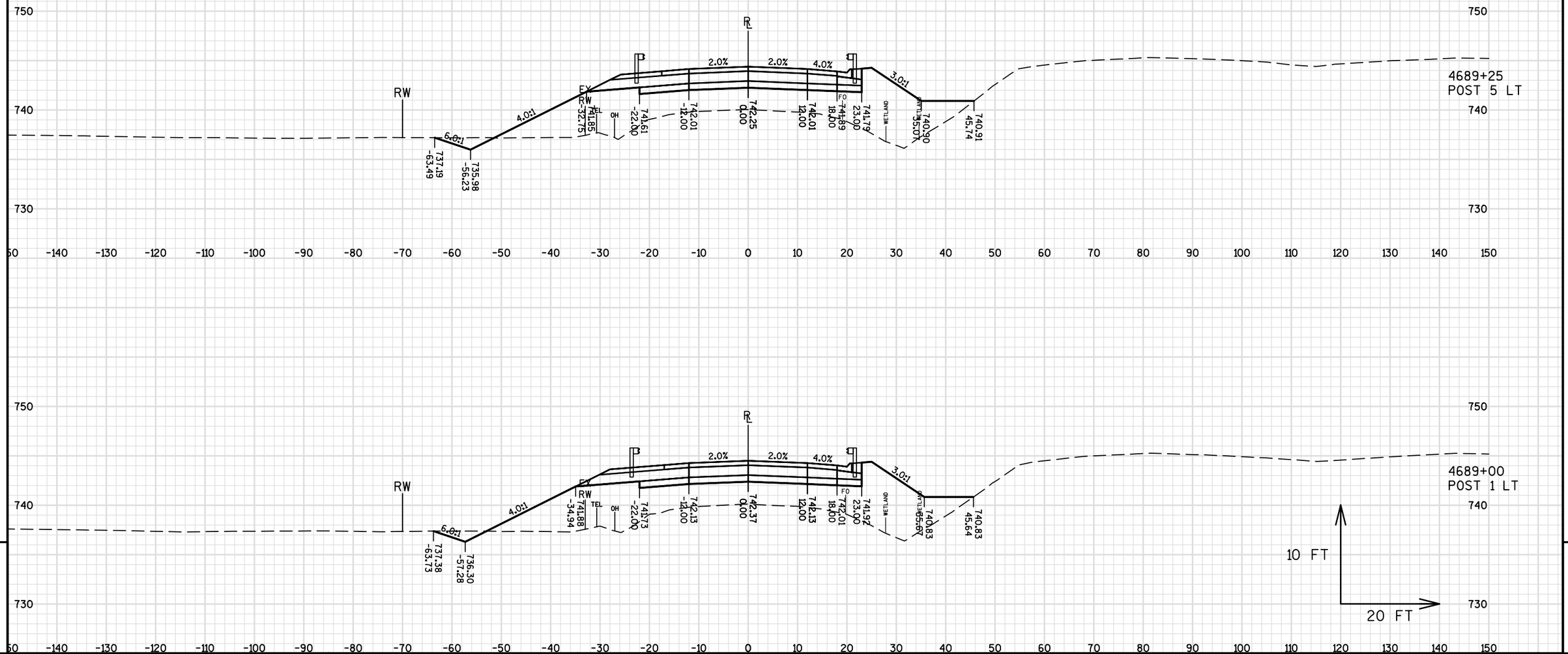
PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-WFR.DWG
LAYOUT NAME - 10

PLOT DATE : 8/31/2016 3:16 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT



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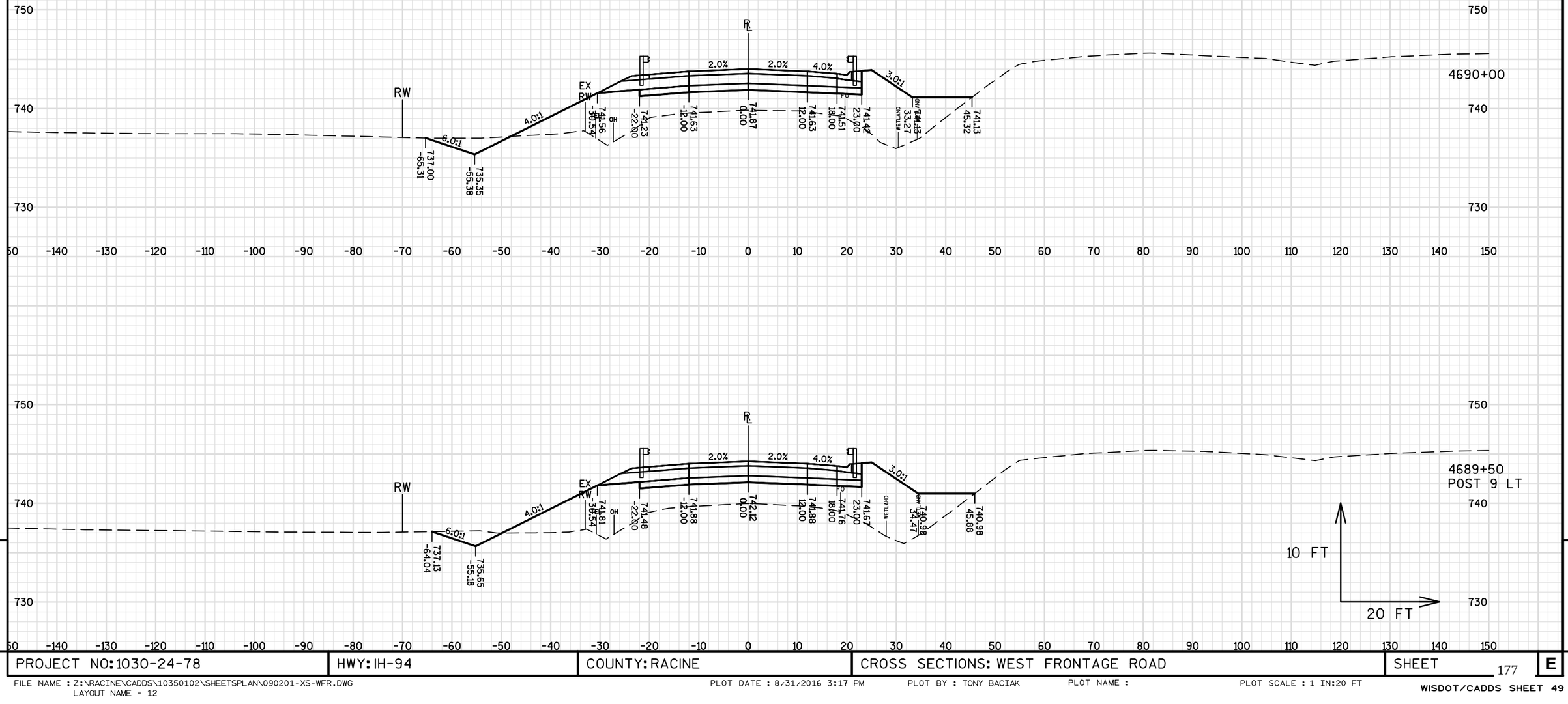
PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-WFR.DWG
LAYOUT NAME - 11

PLOT DATE : 8/31/2016 3:16 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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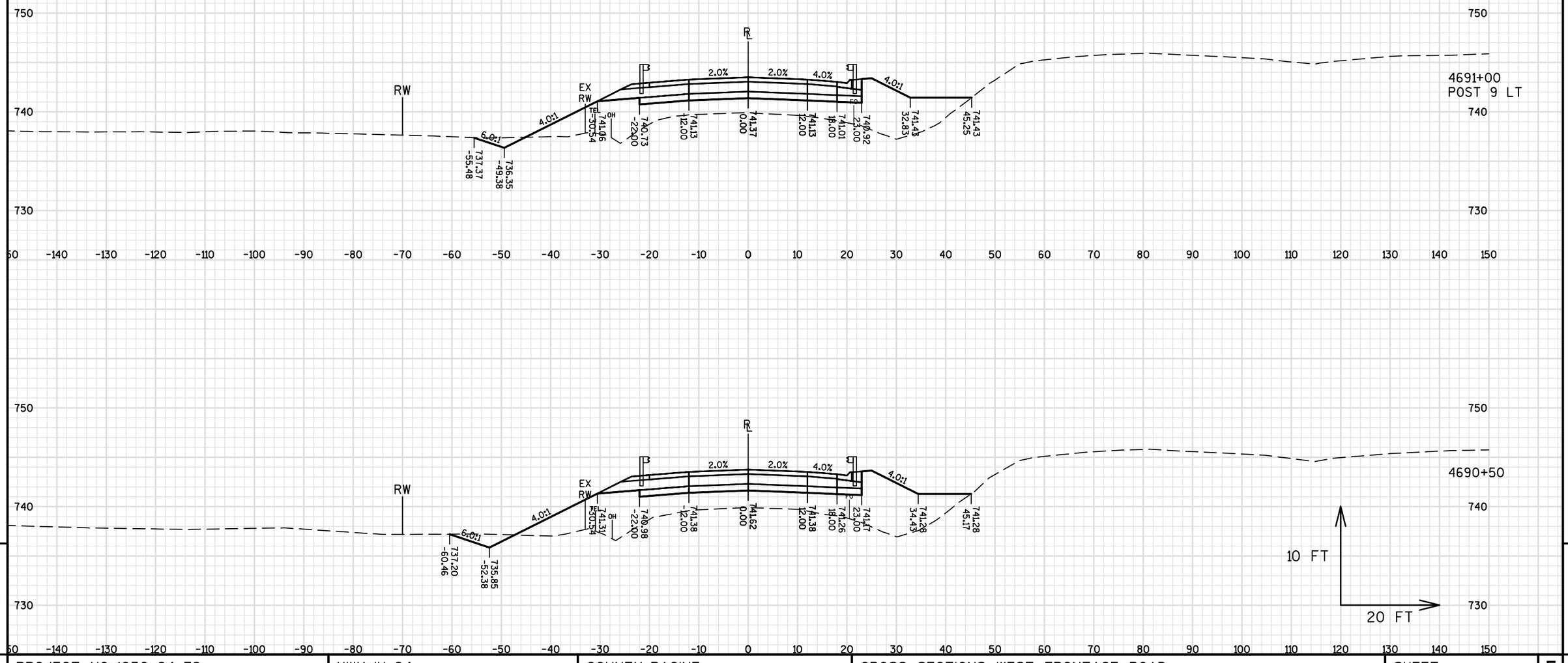
PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 177	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-WFR.DWG
LAYOUT NAME - 12

PLOT DATE : 8/31/2016 3:17 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

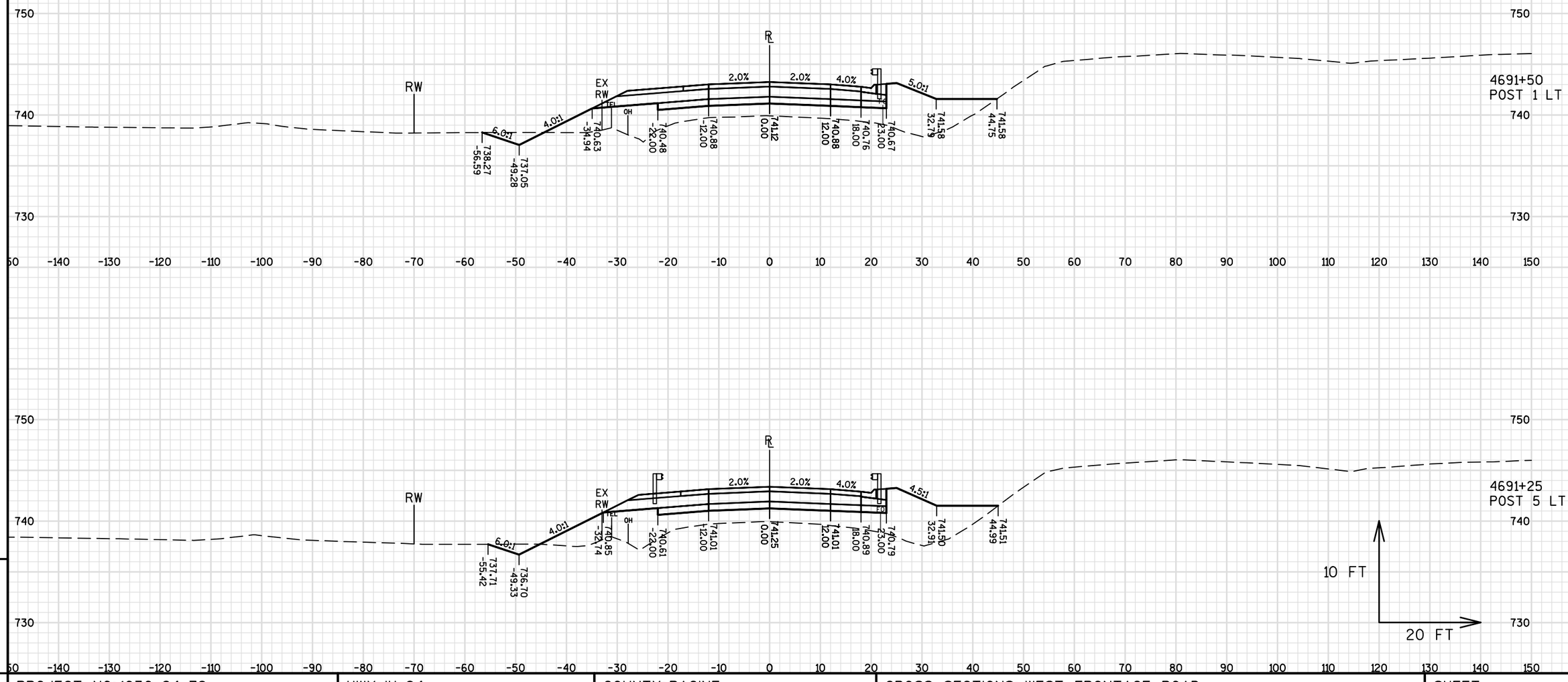
WISDOT/CADDS SHEET 49



9 9

PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-WFR.DWG
LAYOUT NAME - 13
PLOT DATE : 8/31/2016 3:17 PM
PLOT BY : TONY BACIAK
PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49



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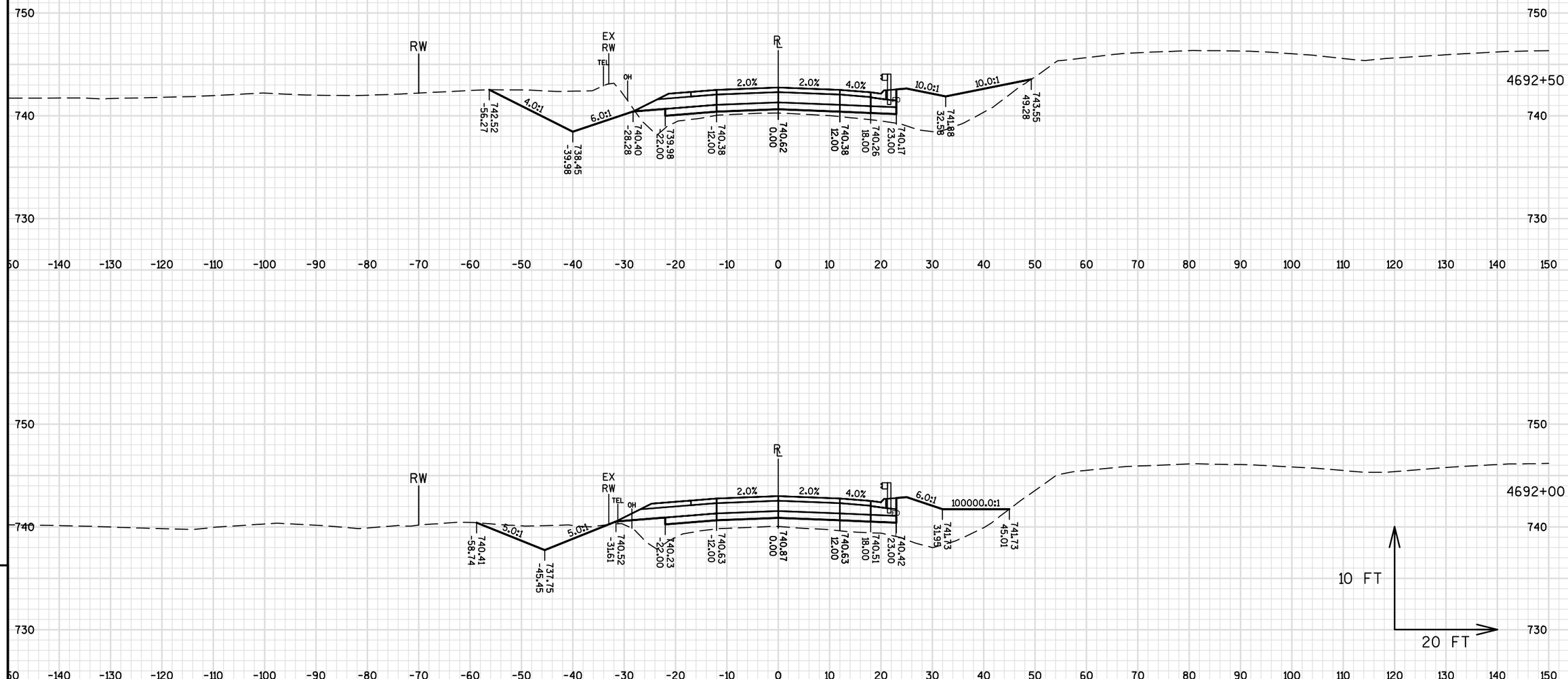
PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-WFR.DWG
LAYOUT NAME - 14

PLOT DATE : 8/31/2016 3:17 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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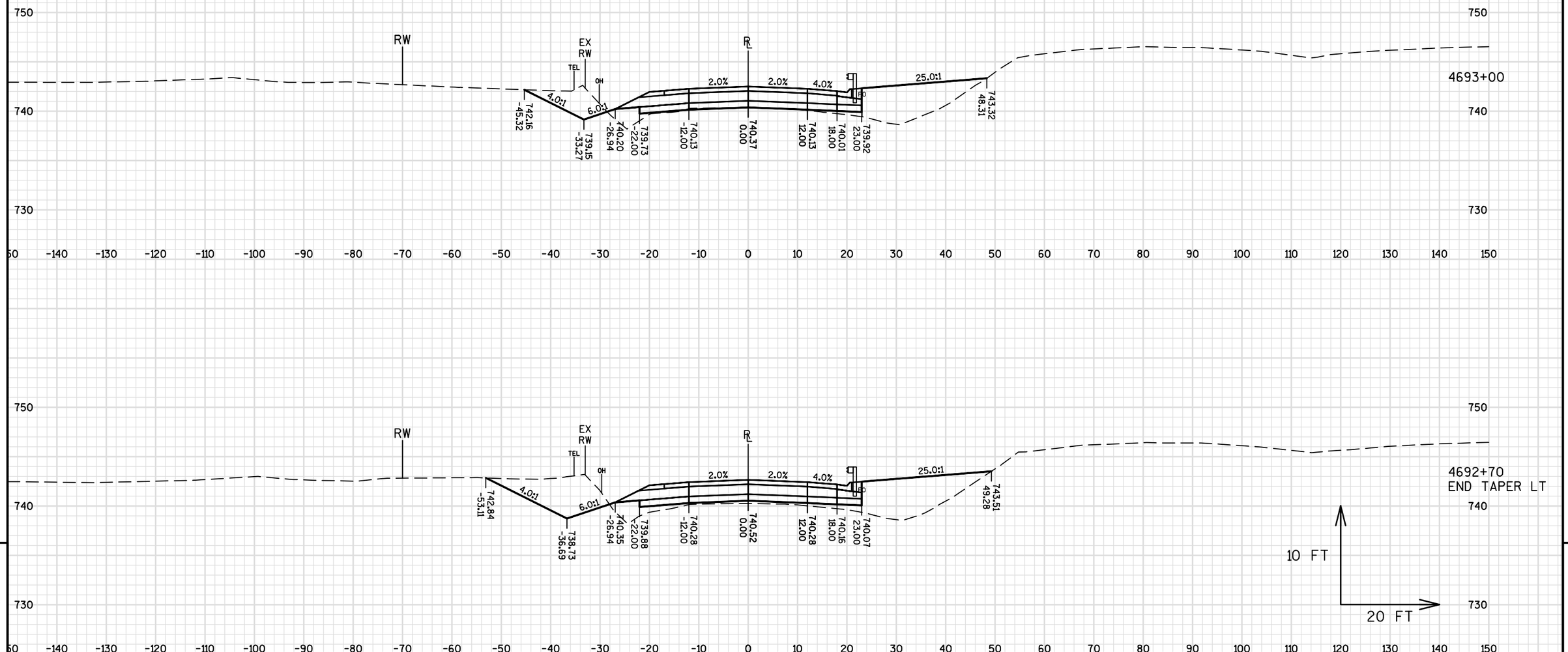
PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 180	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-WFR.DWG
LAYOUT NAME - 15

PLOT DATE : 8/31/2016 3:17 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT



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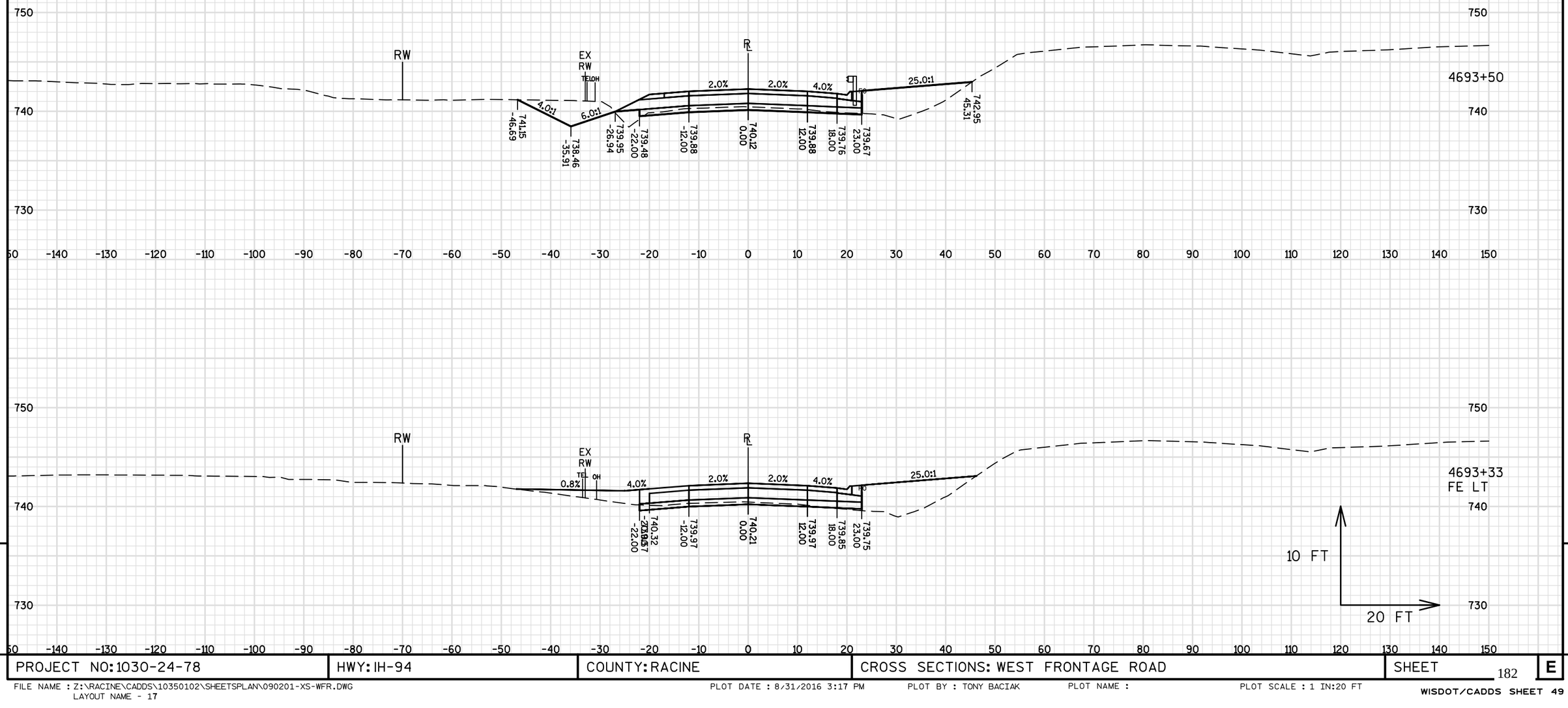
PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 181	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-WFR.DWG
LAYOUT NAME - 16

PLOT DATE : 8/31/2016 3:17 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

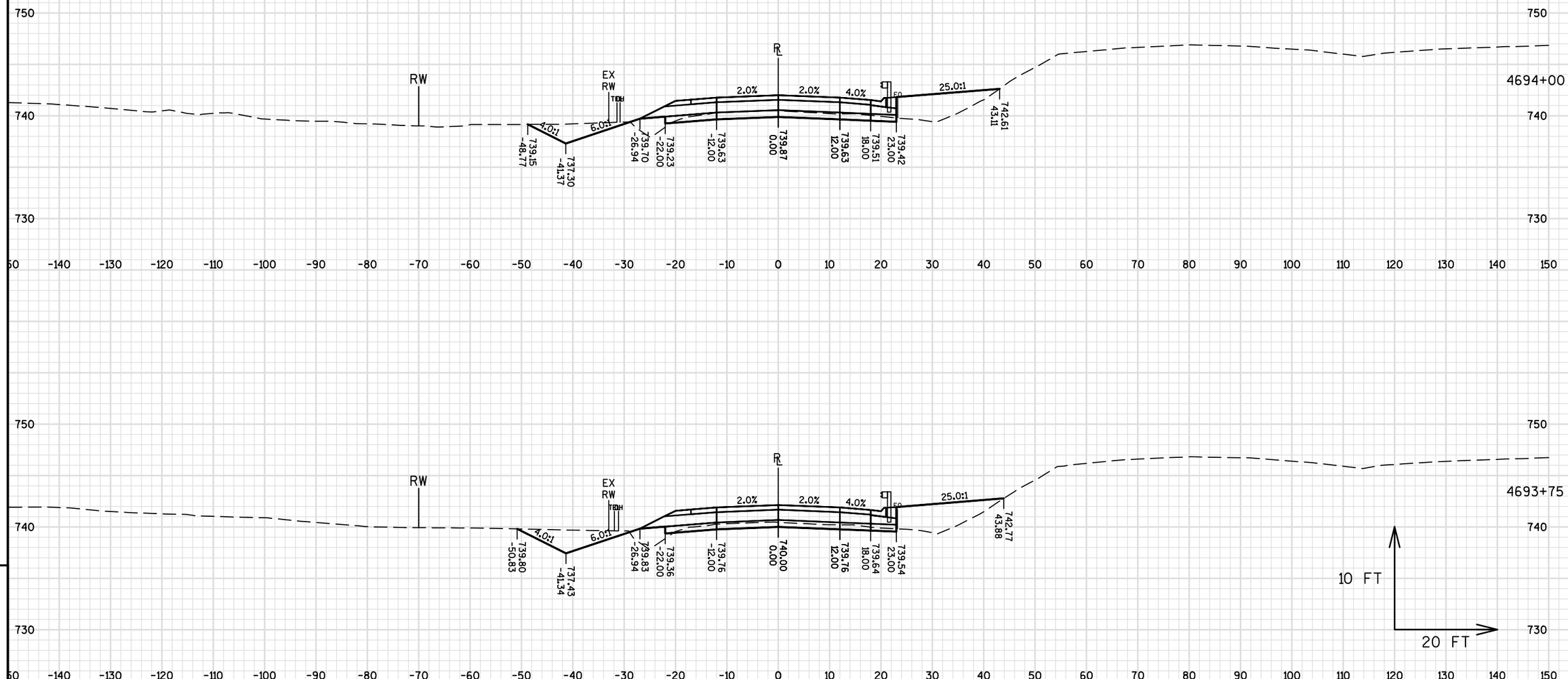


PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 182	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-WFR.DWG
LAYOUT NAME - 17

PLOT DATE : 8/31/2016 3:17 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

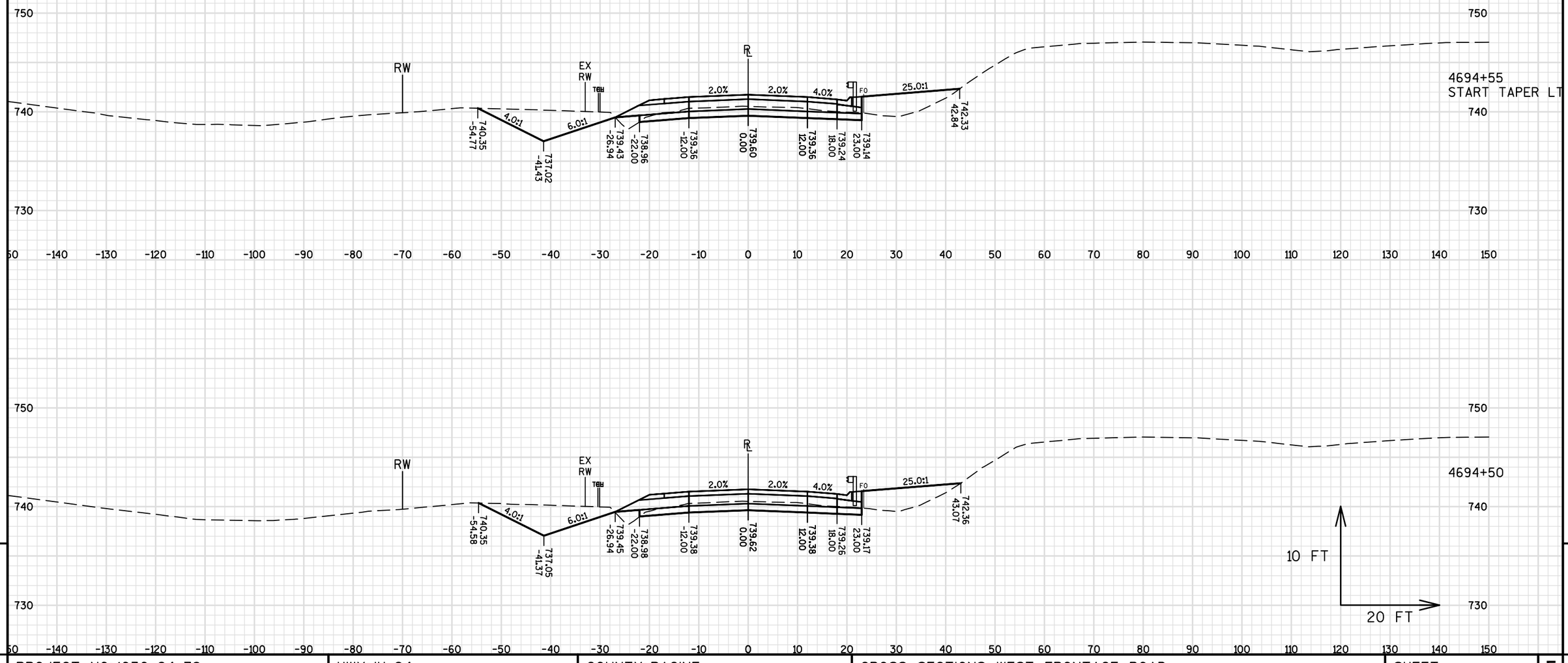


PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 183 E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-WFR.DWG
LAYOUT NAME - 18

PLOT DATE : 8/31/2016 3:17 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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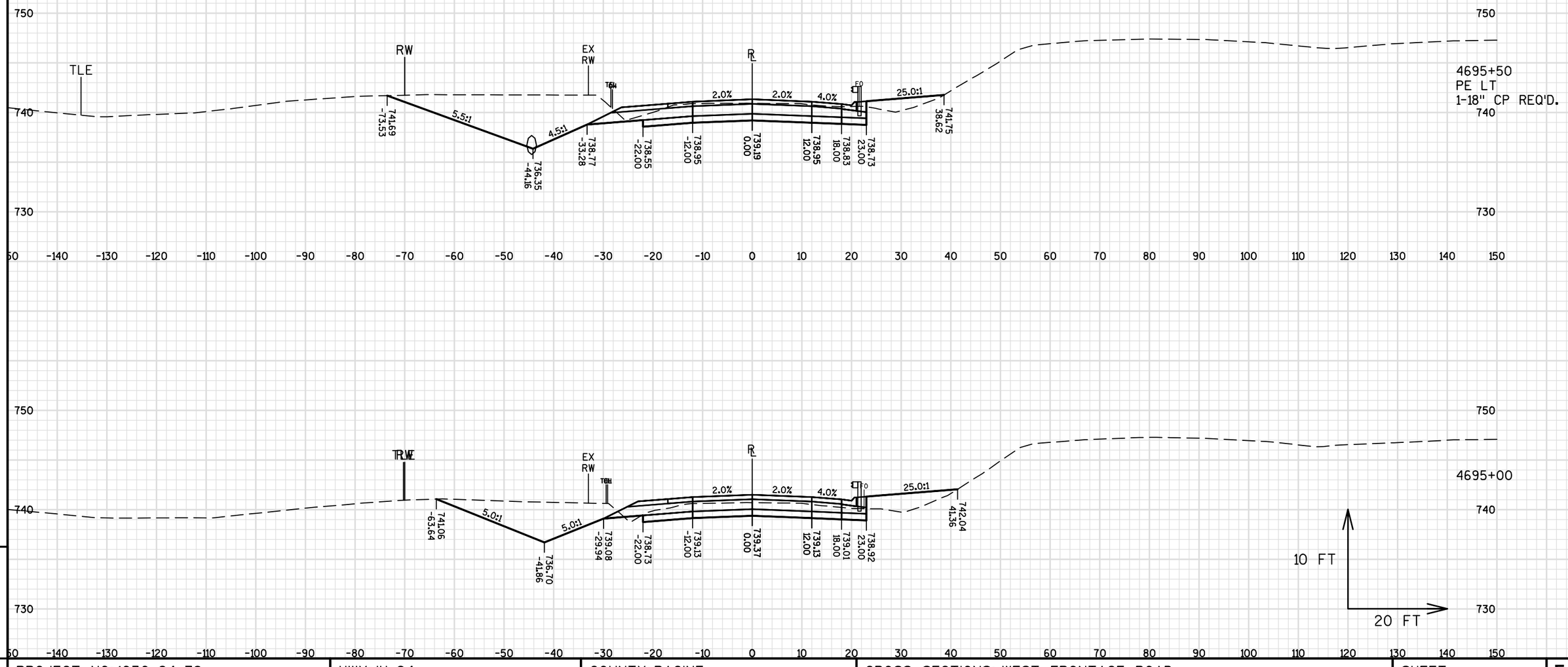
PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 184	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-WFR.DWG
LAYOUT NAME - 19

PLOT DATE : 8/31/2016 3:17 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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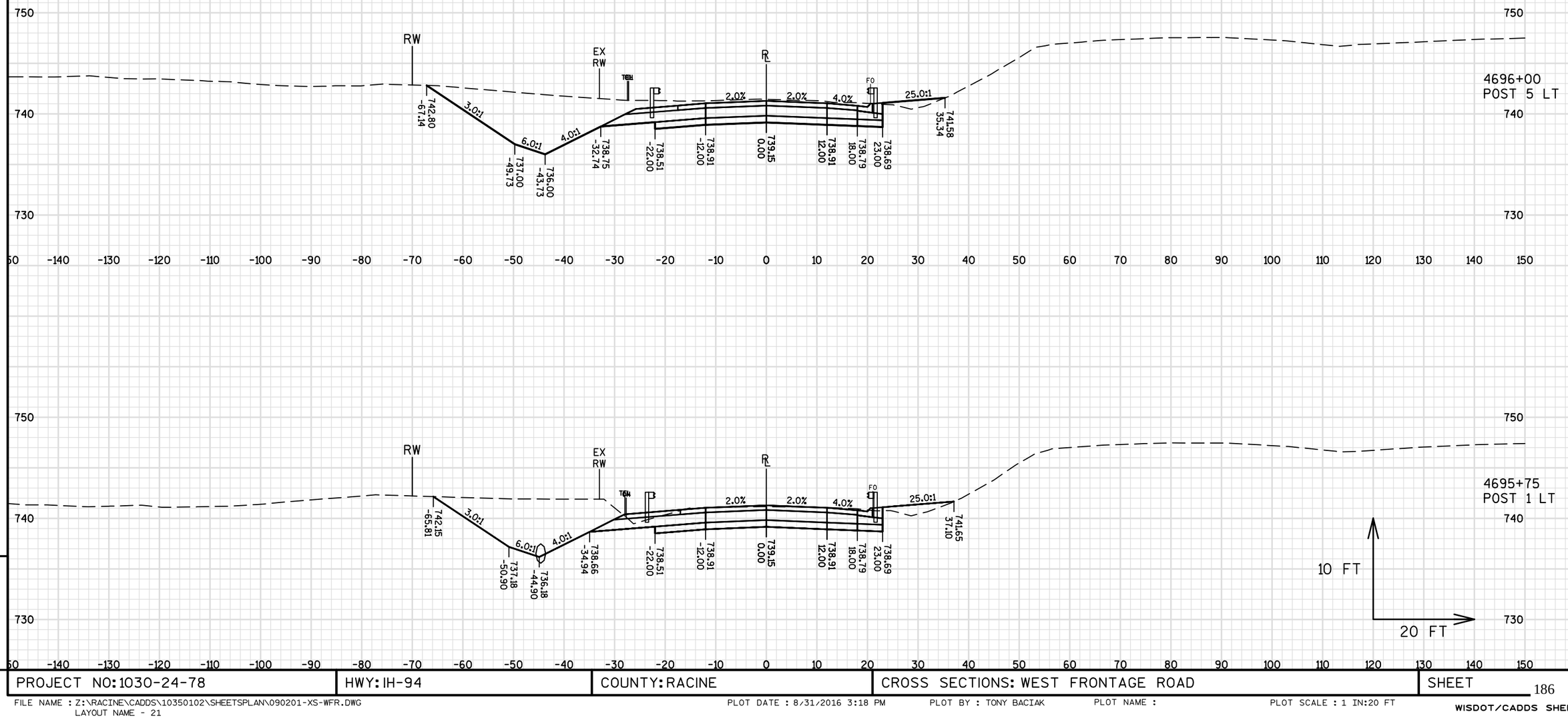
PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-WFR.DWG
LAYOUT NAME - 20

PLOT DATE : 8/31/2016 3:17 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT



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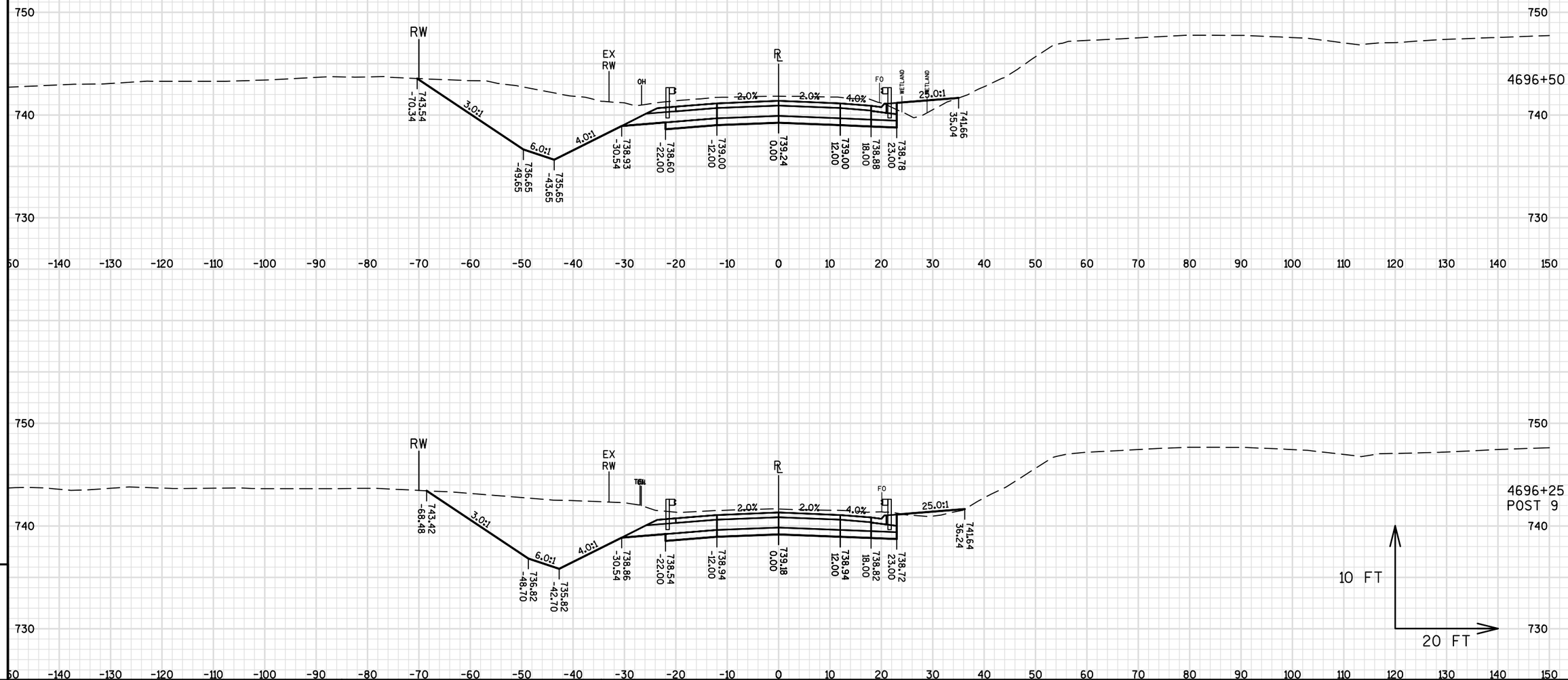
PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 186	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-WFR.DWG
LAYOUT NAME - 21

PLOT DATE : 8/31/2016 3:18 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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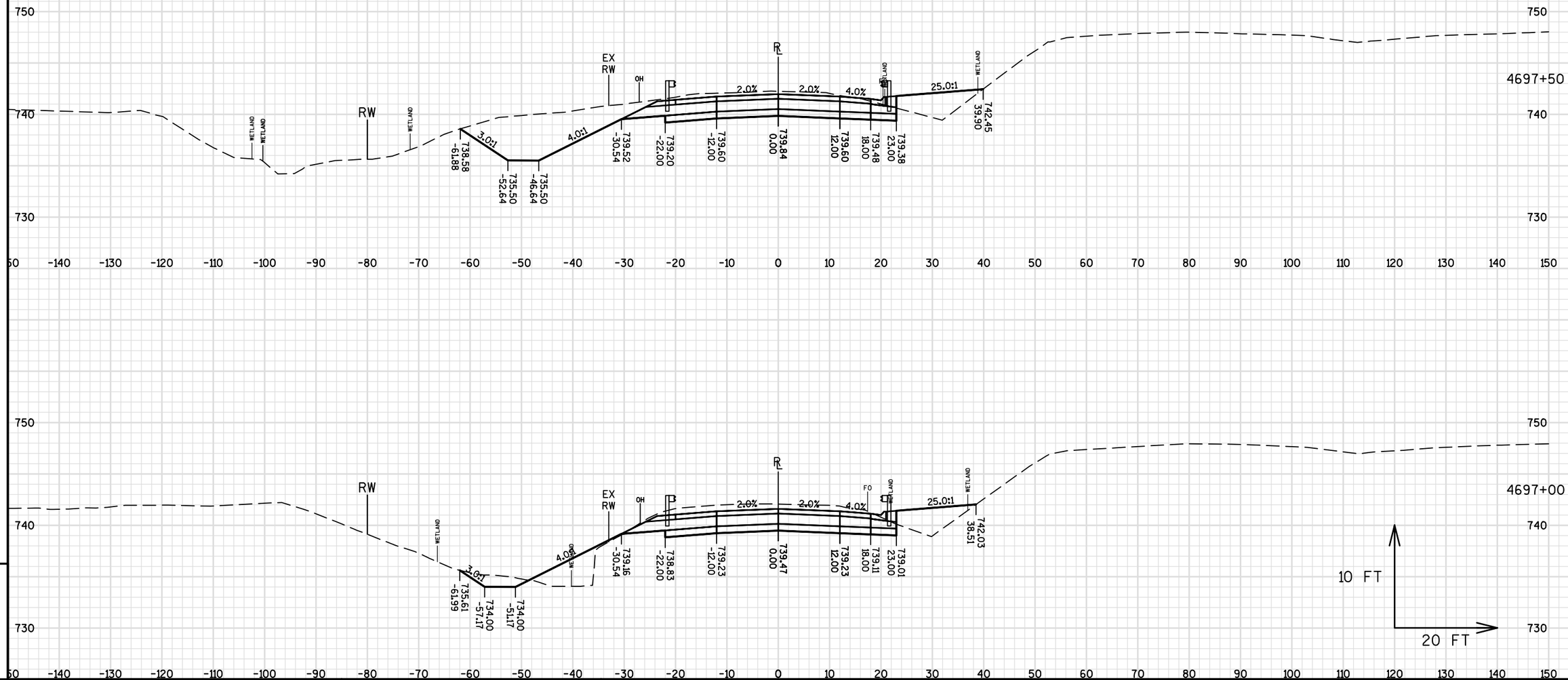
PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-WFR.DWG
LAYOUT NAME - 22

PLOT DATE : 8/31/2016 3:18 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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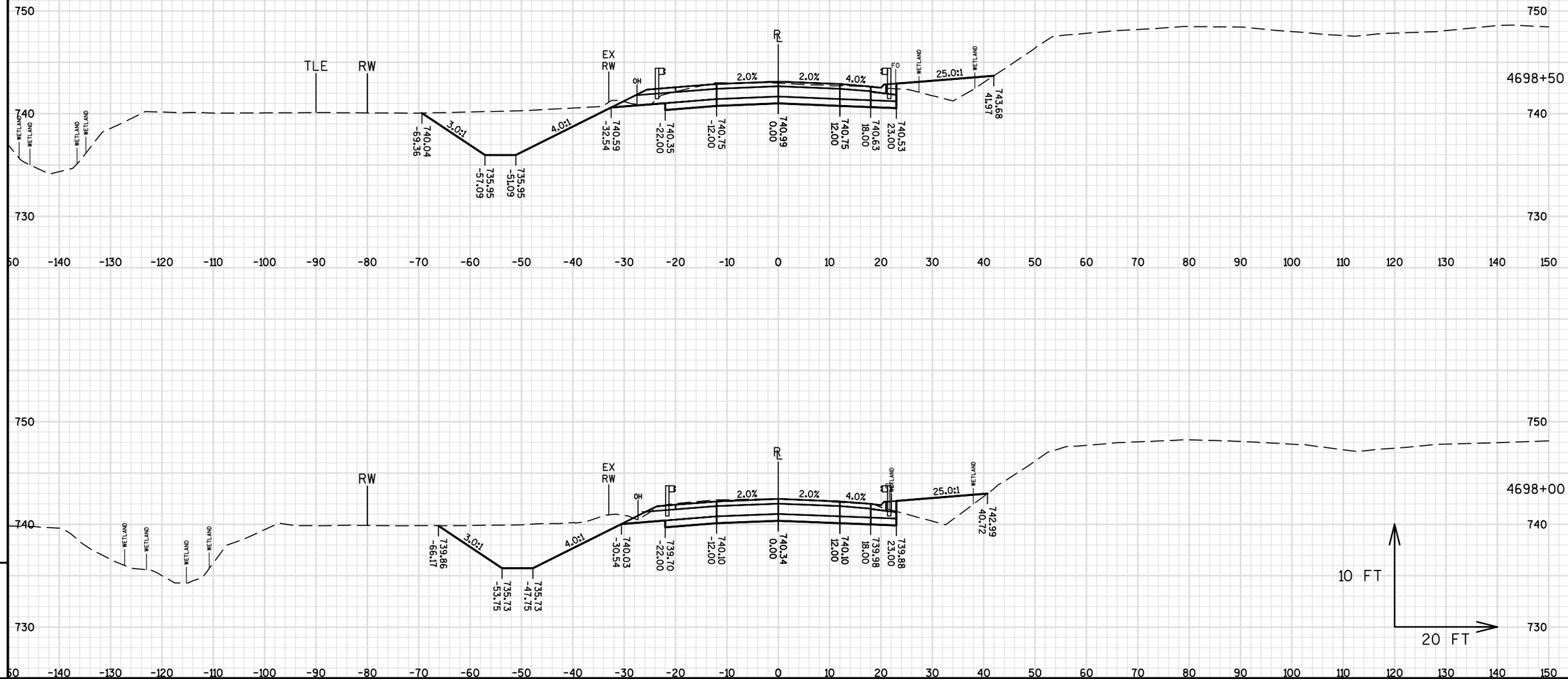
PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-WFR.DWG
LAYOUT NAME - 23

PLOT DATE : 8/31/2016 3:18 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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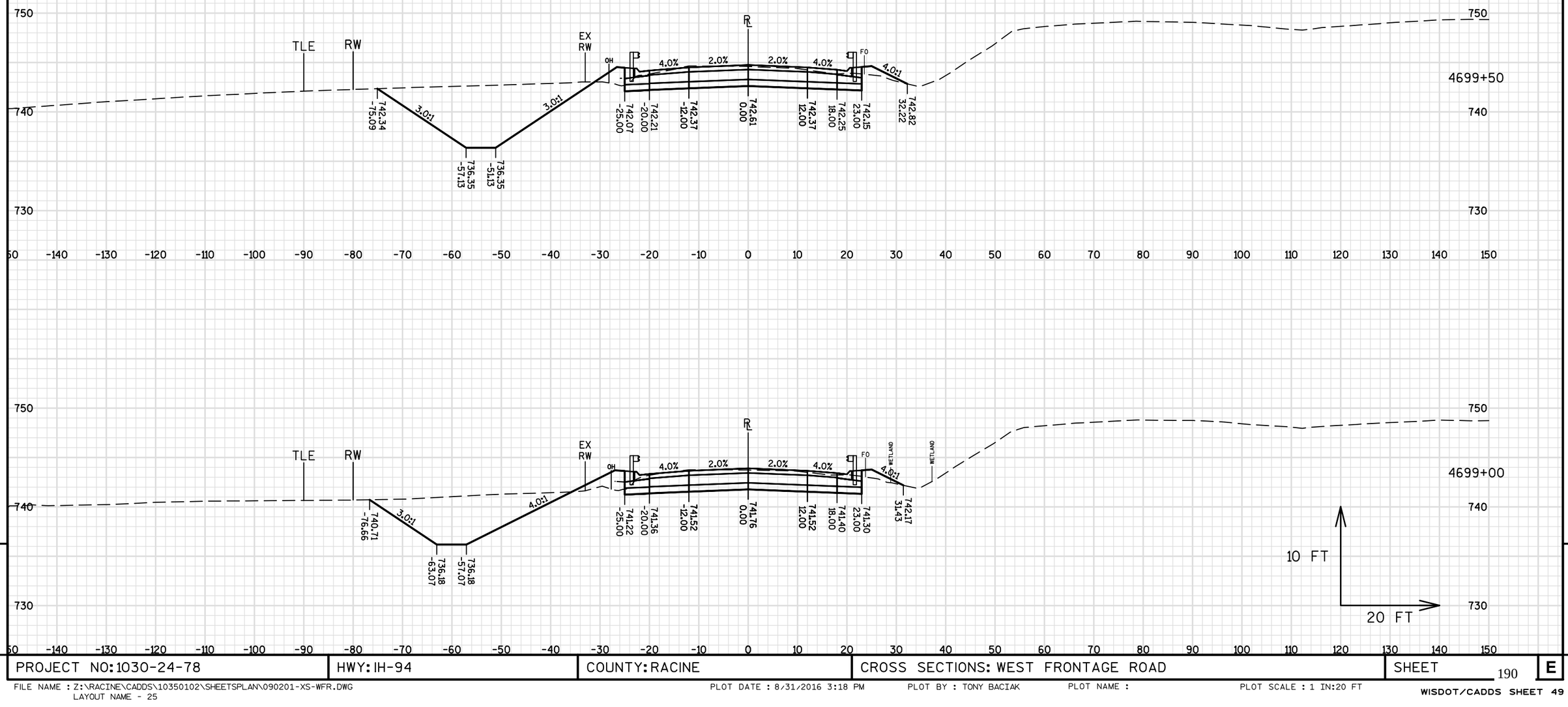
PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-WFR.DWG
LAYOUT NAME - 24

PLOT DATE : 8/31/2016 3:18 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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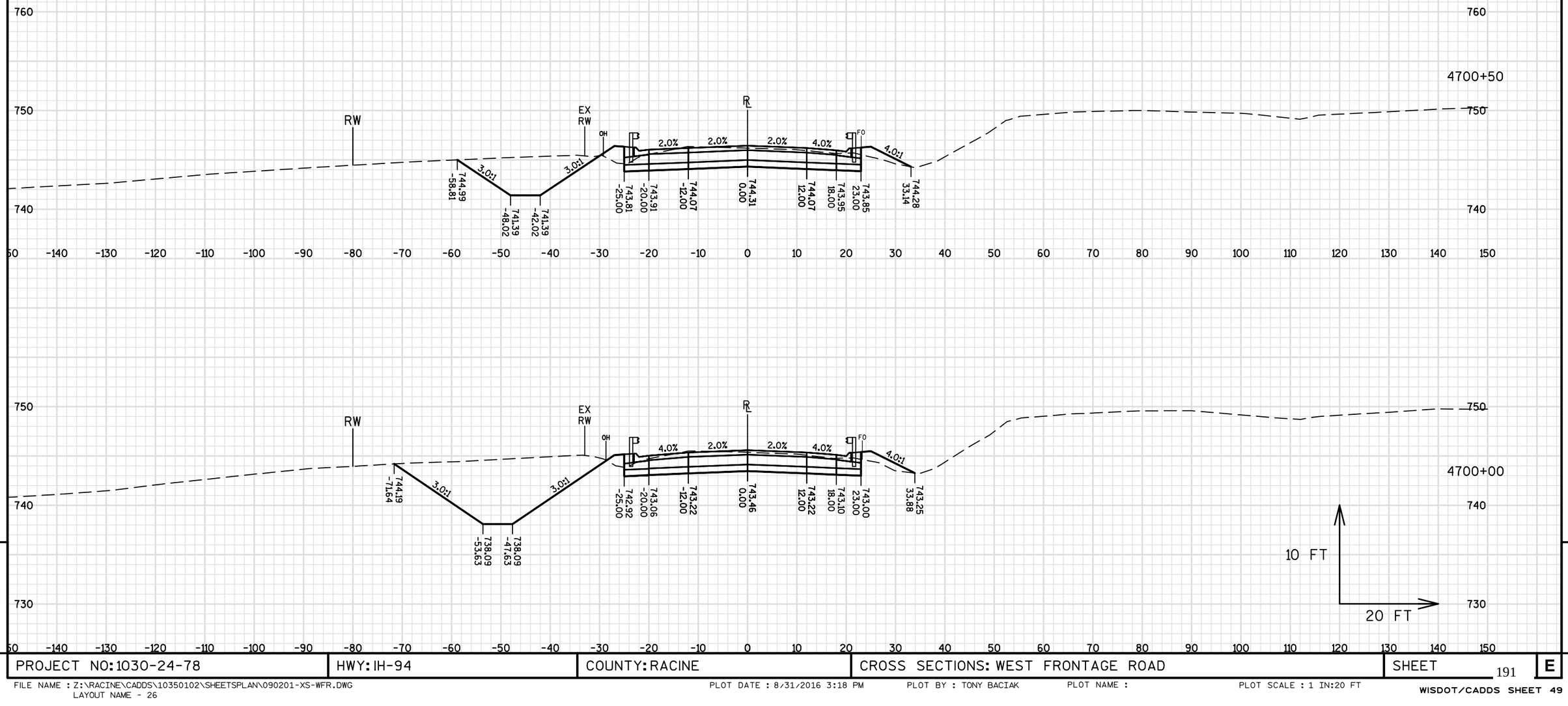
PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 190	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-WFR.DWG
LAYOUT NAME - 25

PLOT DATE : 8/31/2016 3:18 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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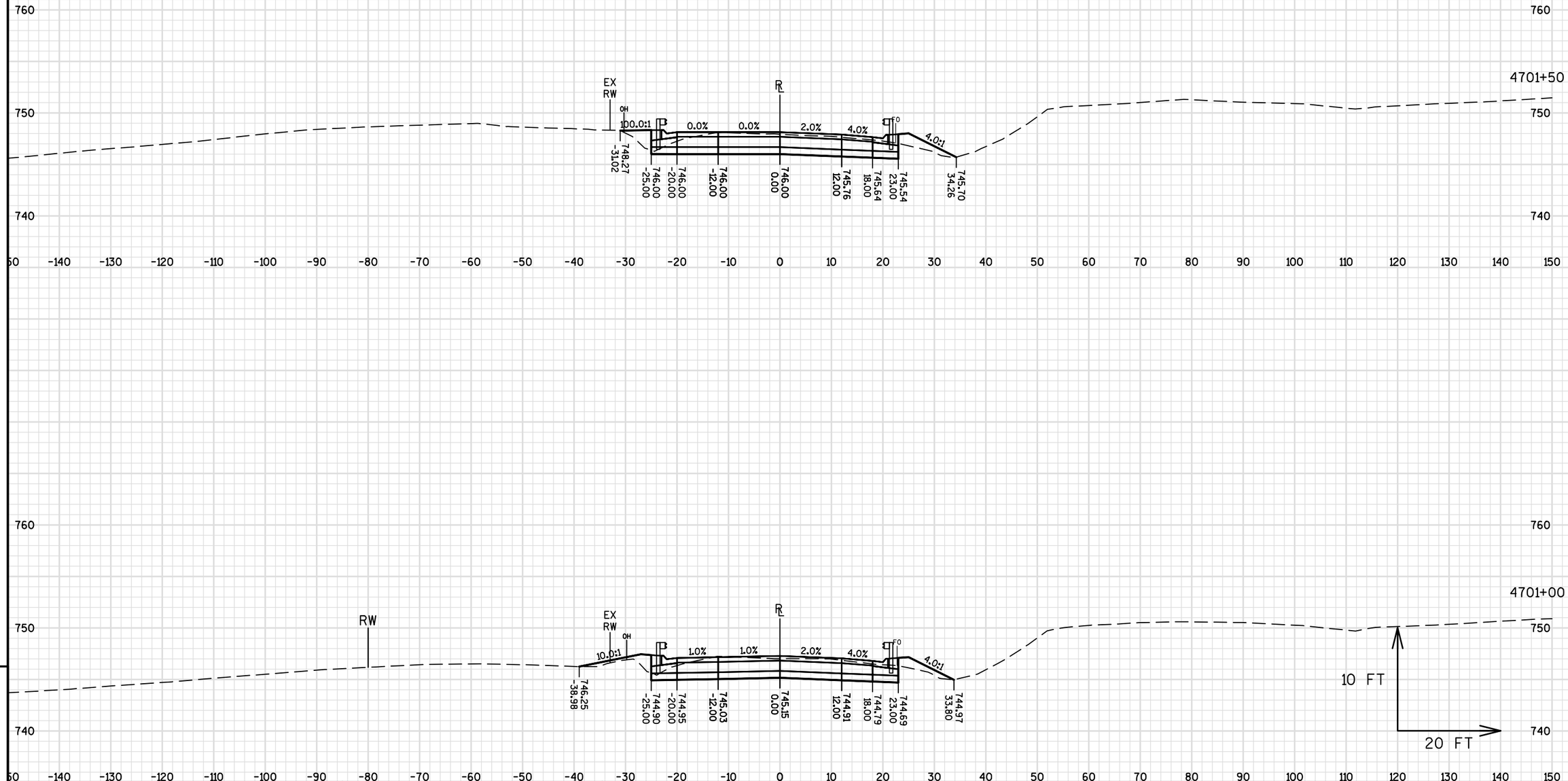
PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-WFR.DWG
LAYOUT NAME - 26

PLOT DATE : 8/31/2016 3:18 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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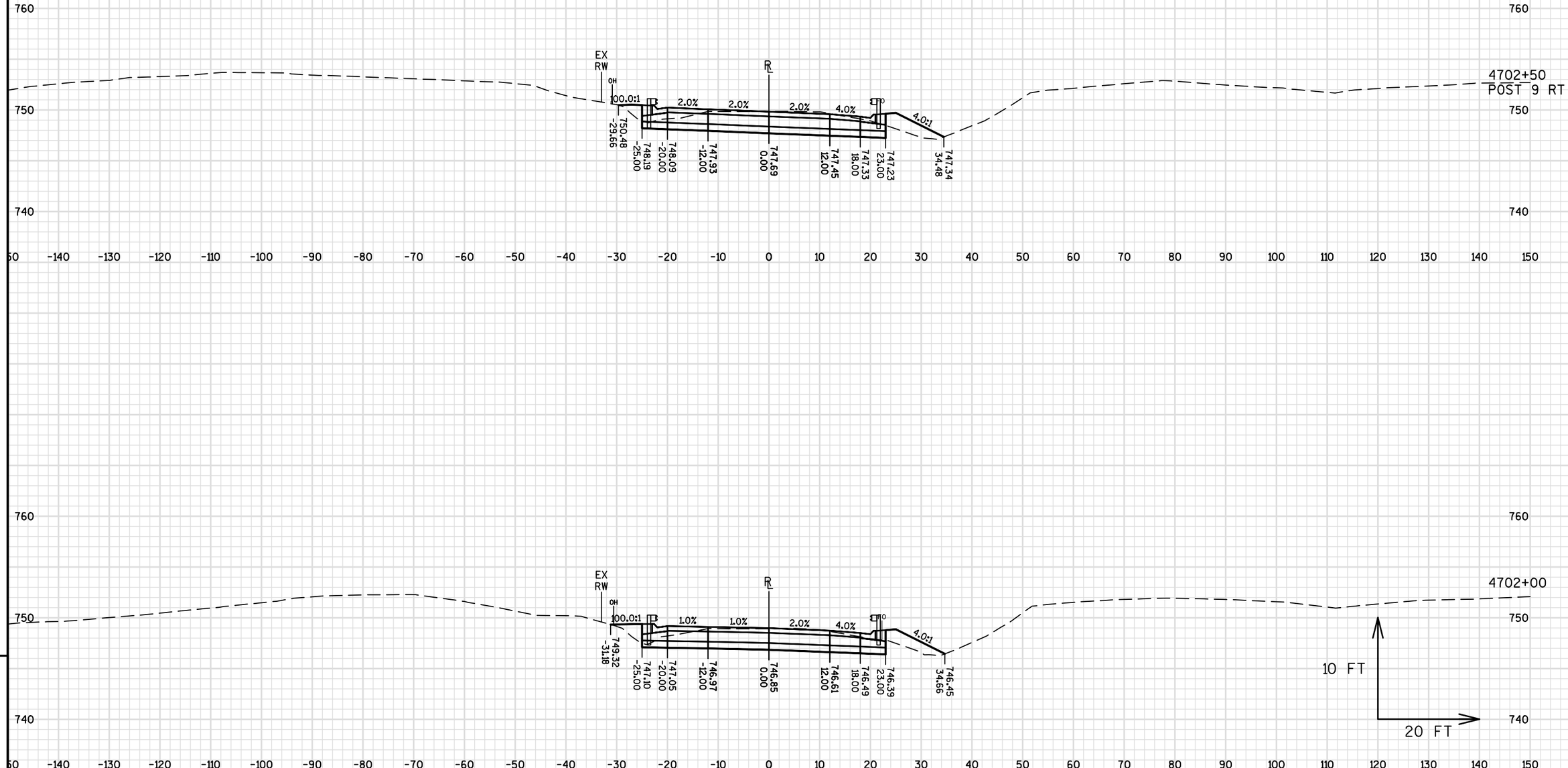
PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-WFR.DWG
LAYOUT NAME - 27

PLOT DATE : 8/31/2016 3:18 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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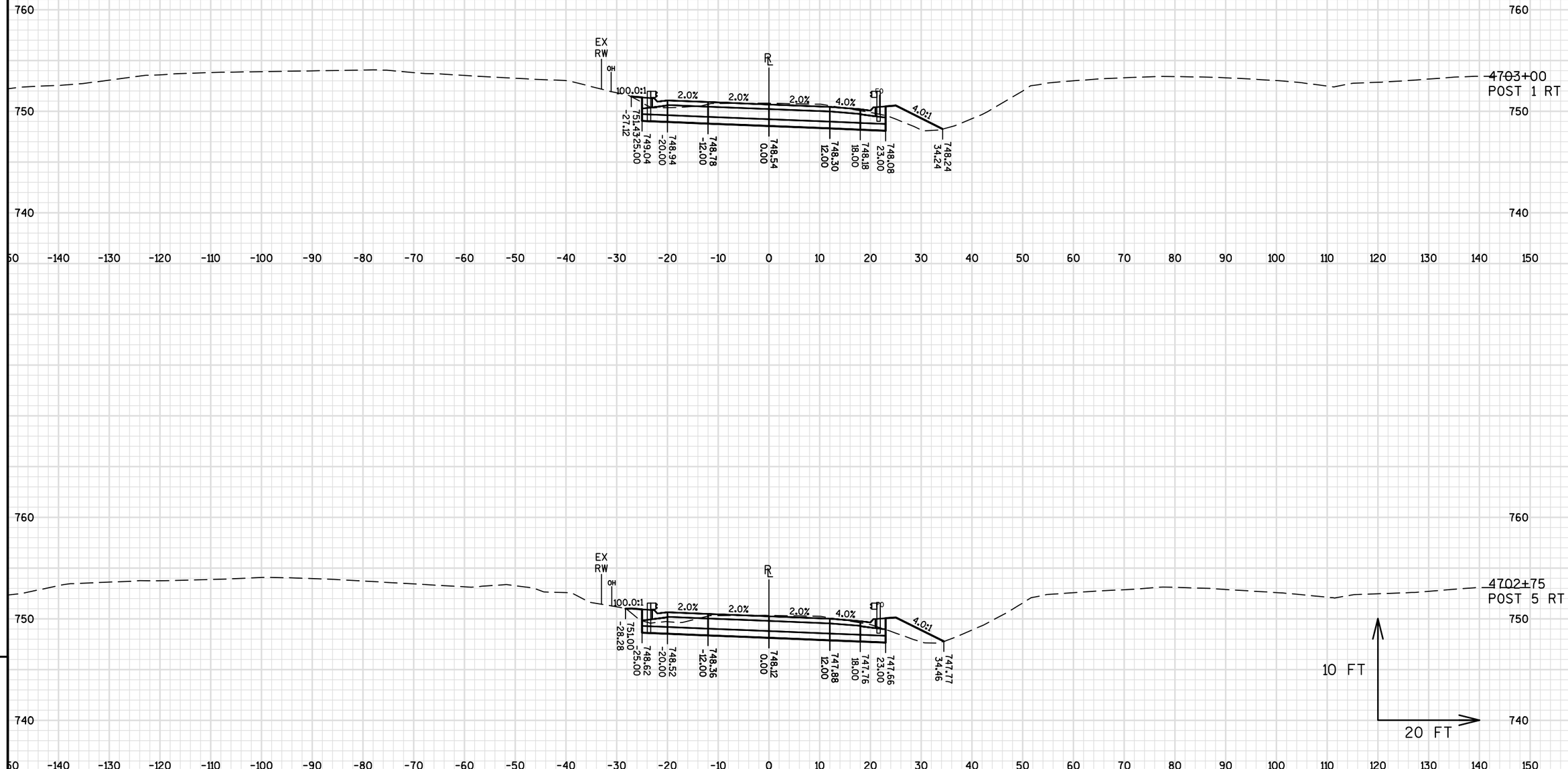
PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 193	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-WFR.DWG
LAYOUT NAME - 28

PLOT DATE : 8/31/2016 3:18 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT



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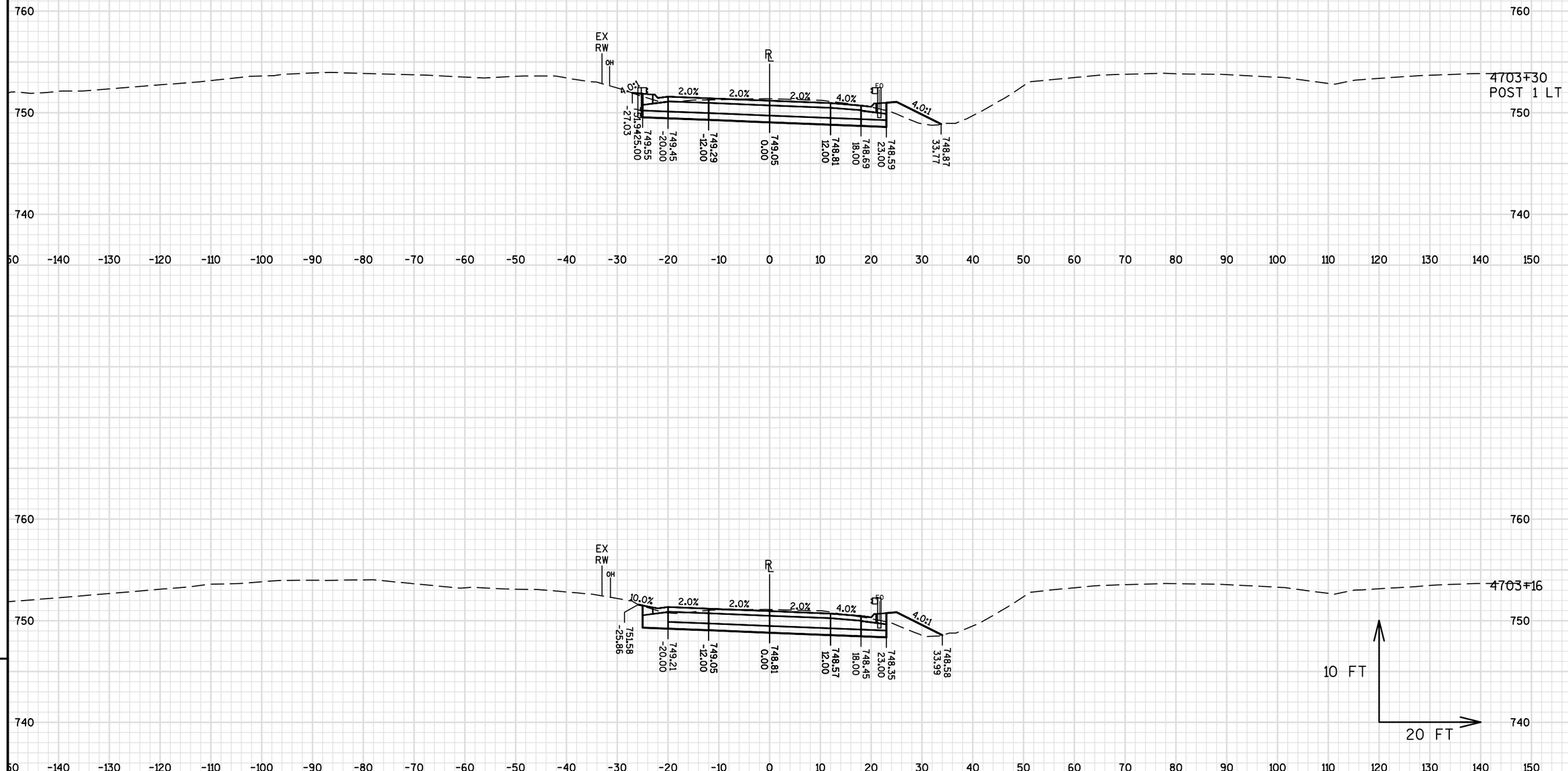
PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 194	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-WFR.DWG
LAYOUT NAME - 29

PLOT DATE : 8/31/2016 3:18 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT



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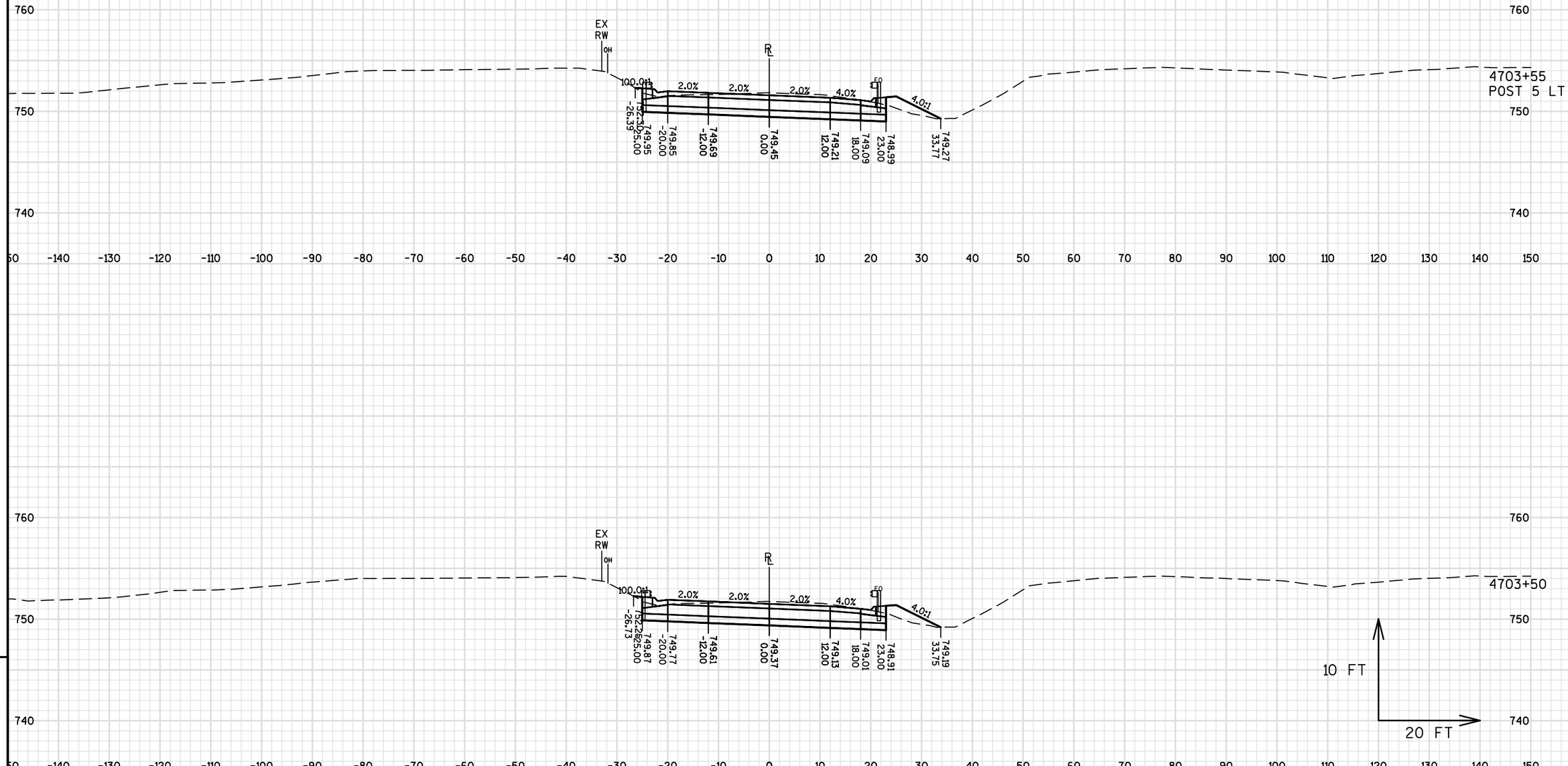
PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 195	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-WFR.DWG
LAYOUT NAME - 30

PLOT DATE : 8/31/2016 3:19 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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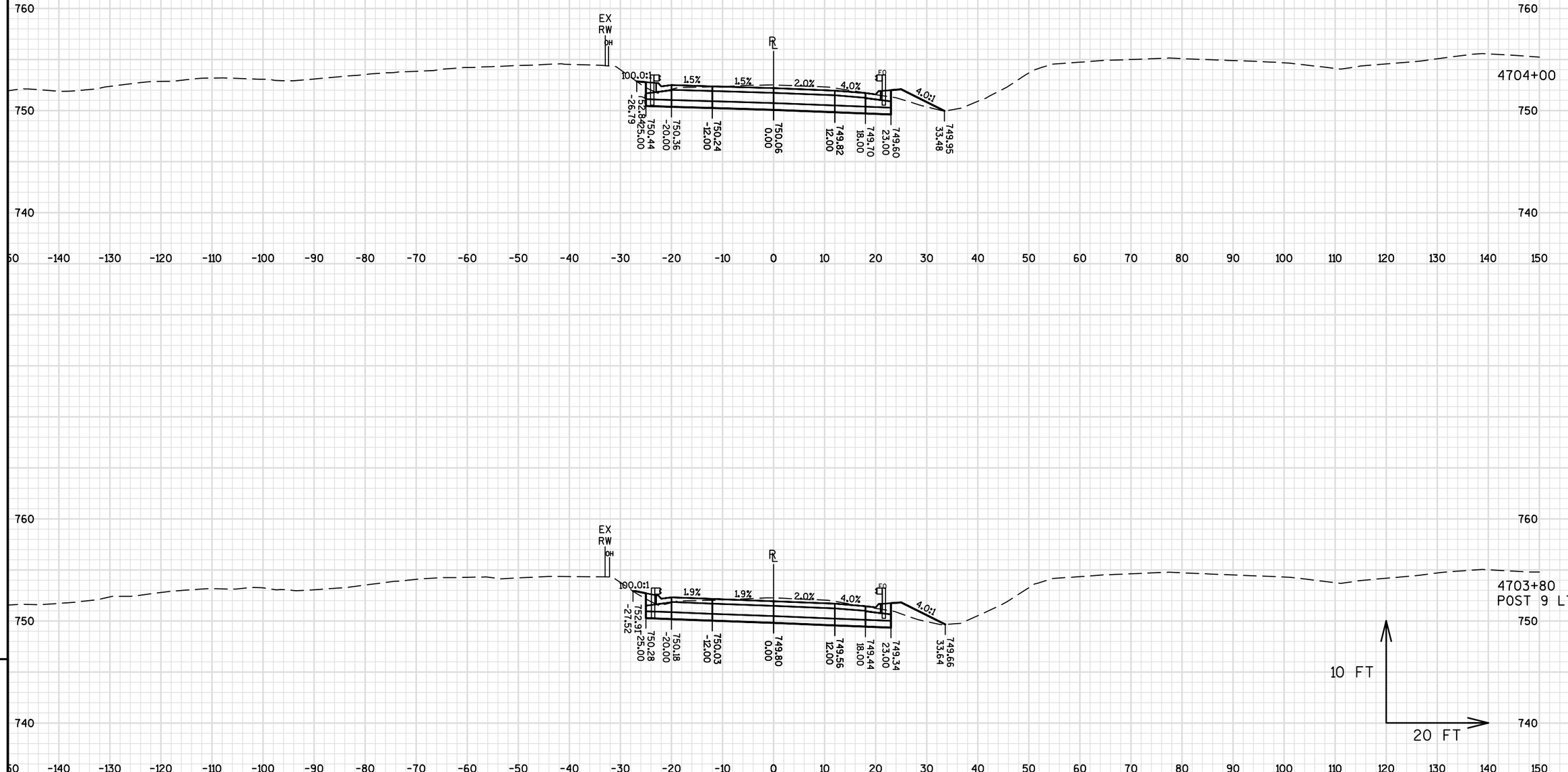
9

PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-WFR.DWG
LAYOUT NAME - 31

PLOT DATE : 8/31/2016 3:19 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

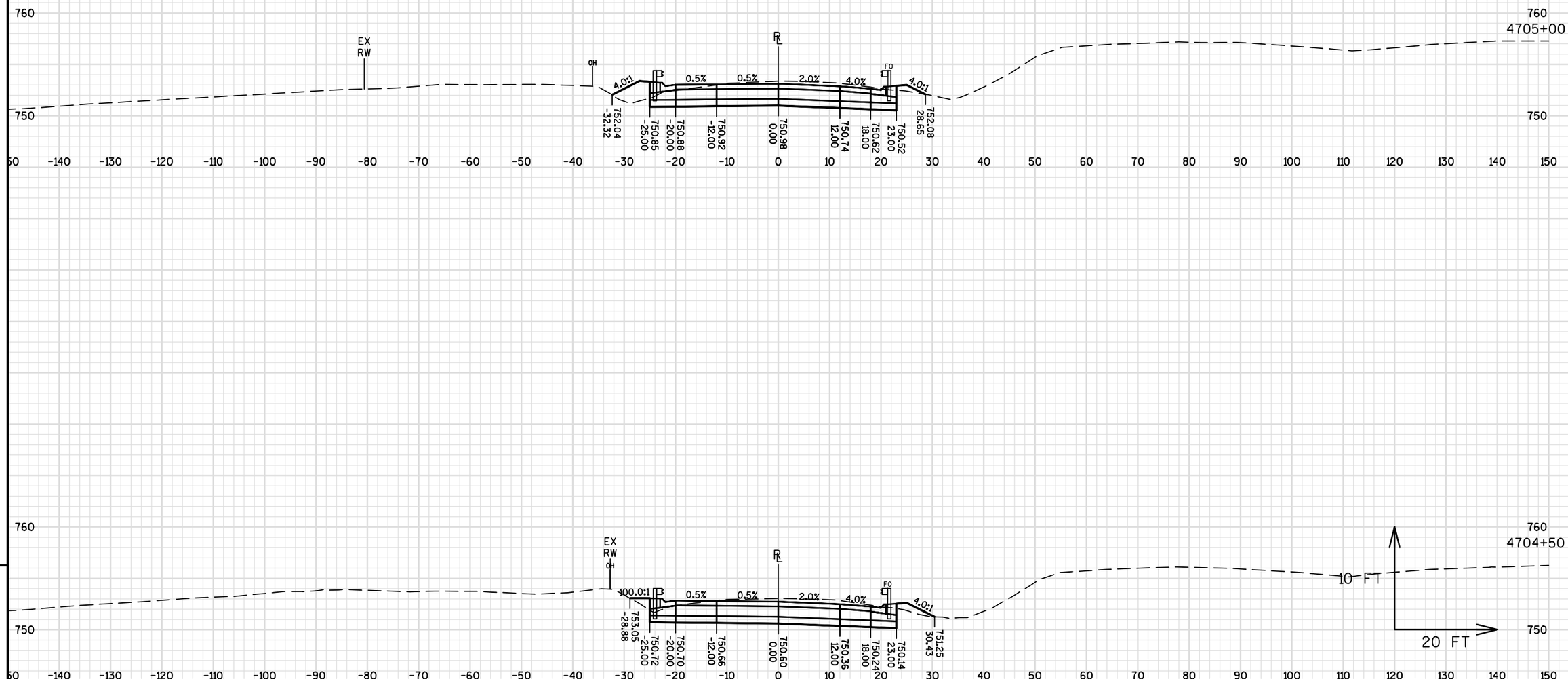


PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 197	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-WFR.DWG
LAYOUT NAME - 32

PLOT DATE : 8/31/2016 3:19 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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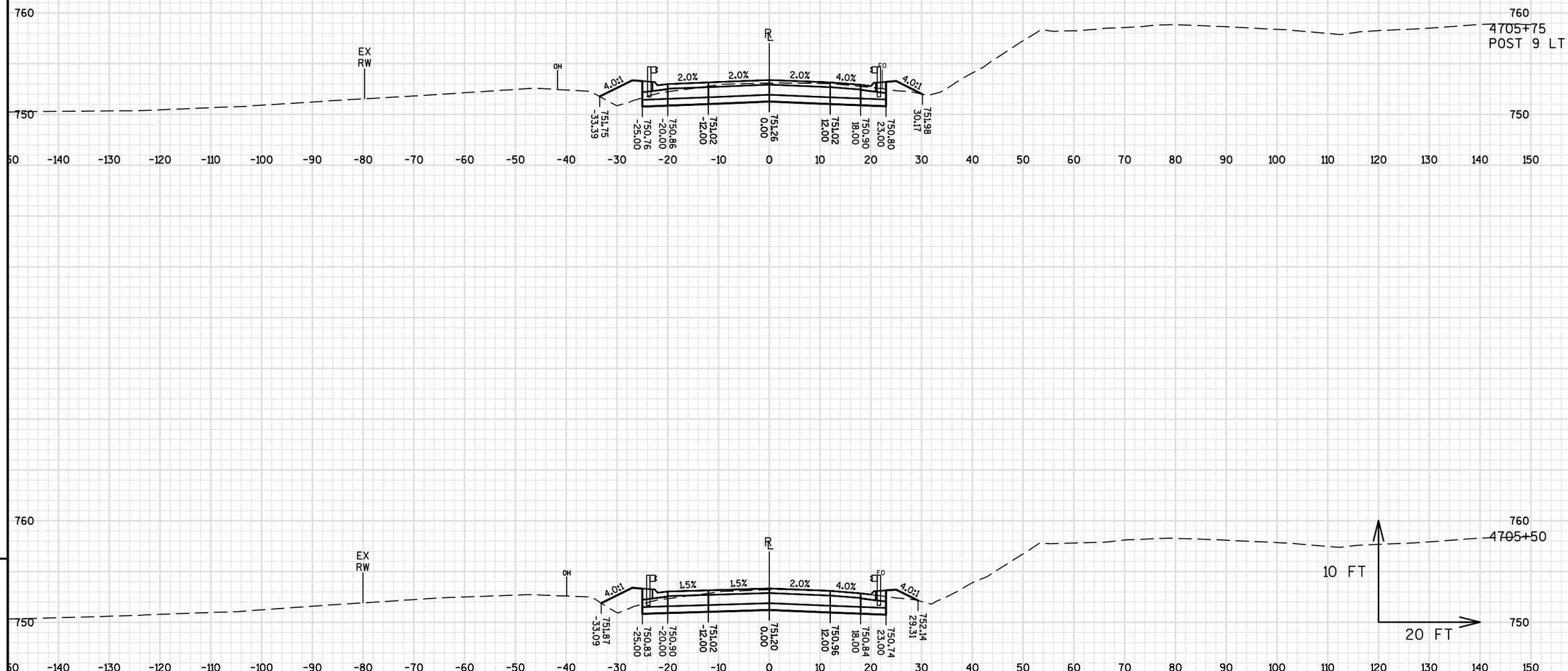
9

PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 198	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-WFR.DWG
LAYOUT NAME - 33

PLOT DATE : 8/31/2016 3:19 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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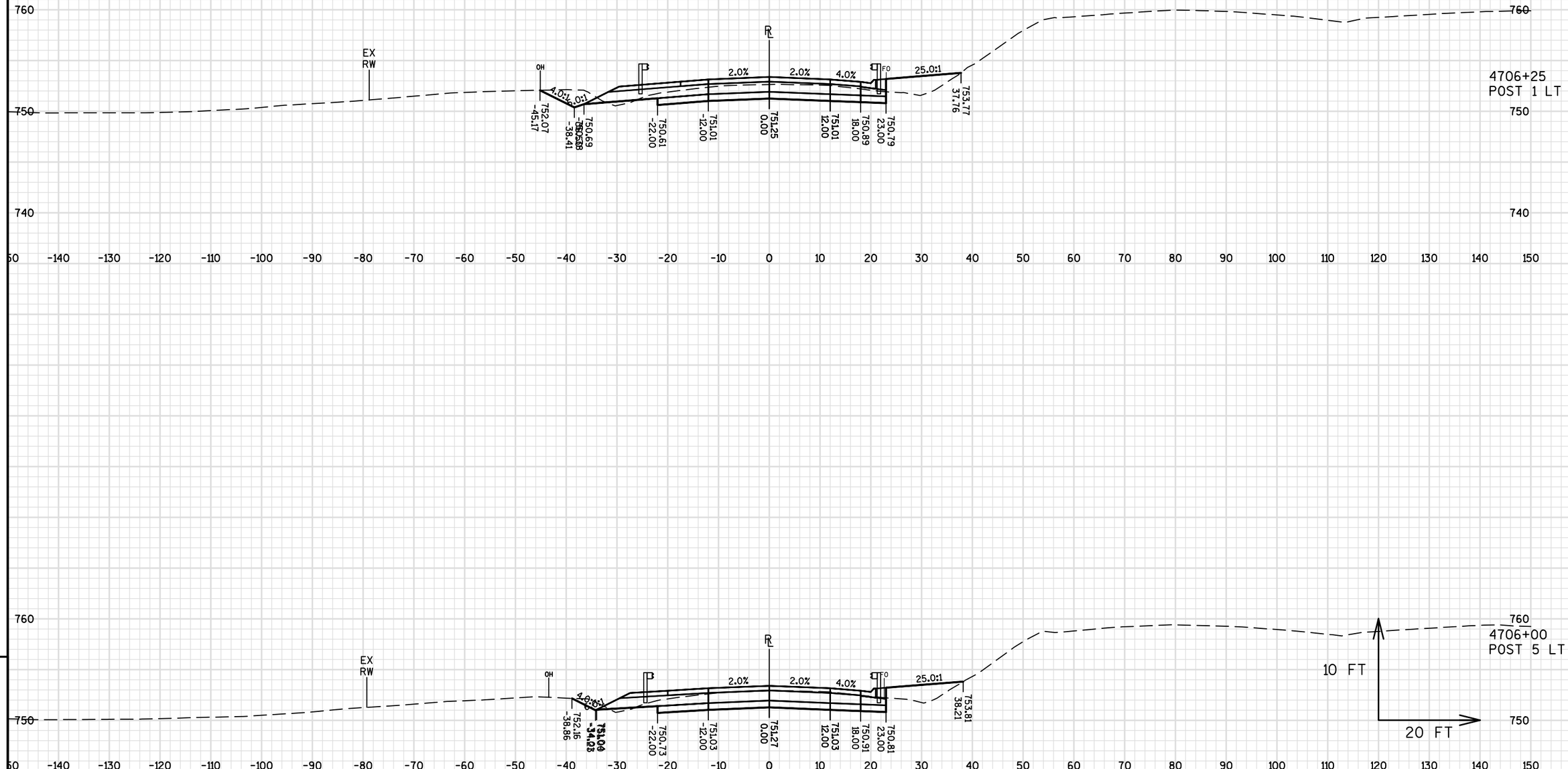
PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 199	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-WFR.DWG
LAYOUT NAME - 34

PLOT DATE : 8/31/2016 3:19 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

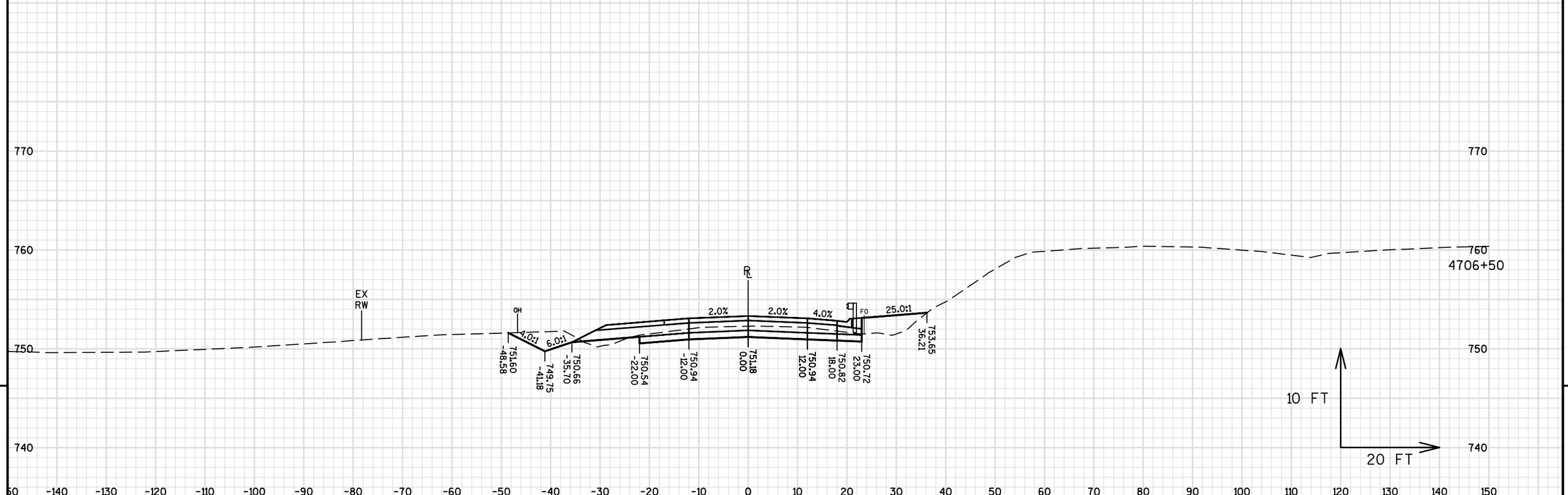
WISDOT/CADDS SHEET 49



PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 200	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-WFR.DWG
LAYOUT NAME - 35

PLOT DATE : 8/31/2016 3:19 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT



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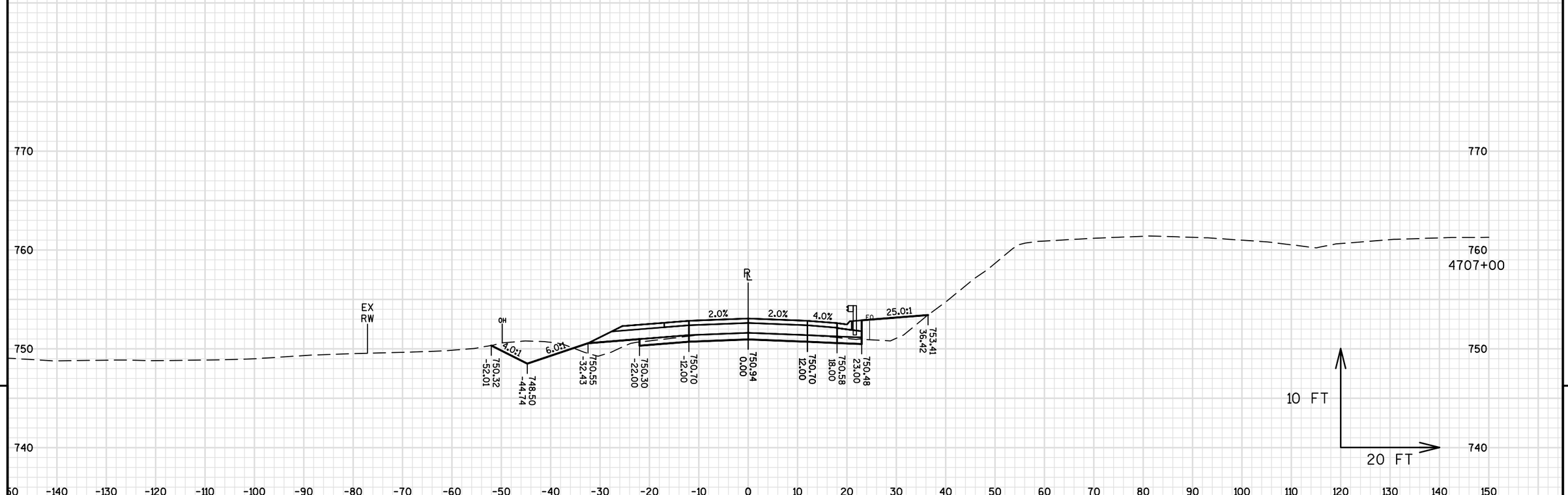
PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 201	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-WFR.DWG
LAYOUT NAME - 36

PLOT DATE : 8/31/2016 3:19 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT



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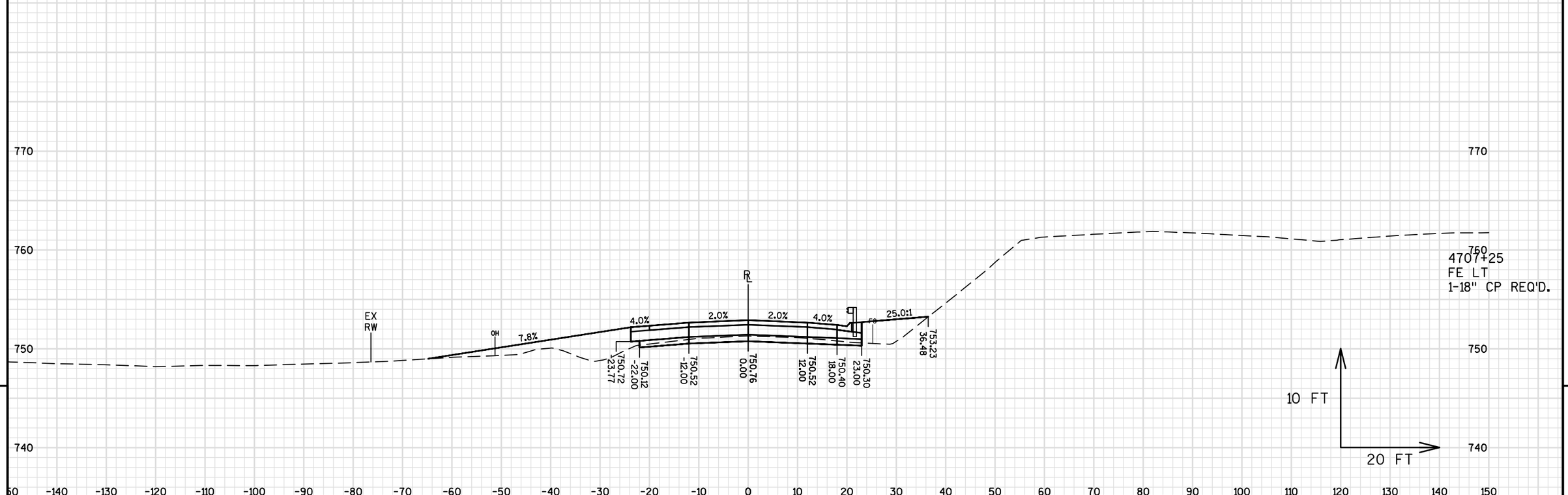
PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 202	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-WFR.DWG
LAYOUT NAME - 37

PLOT DATE : 8/31/2016 3:19 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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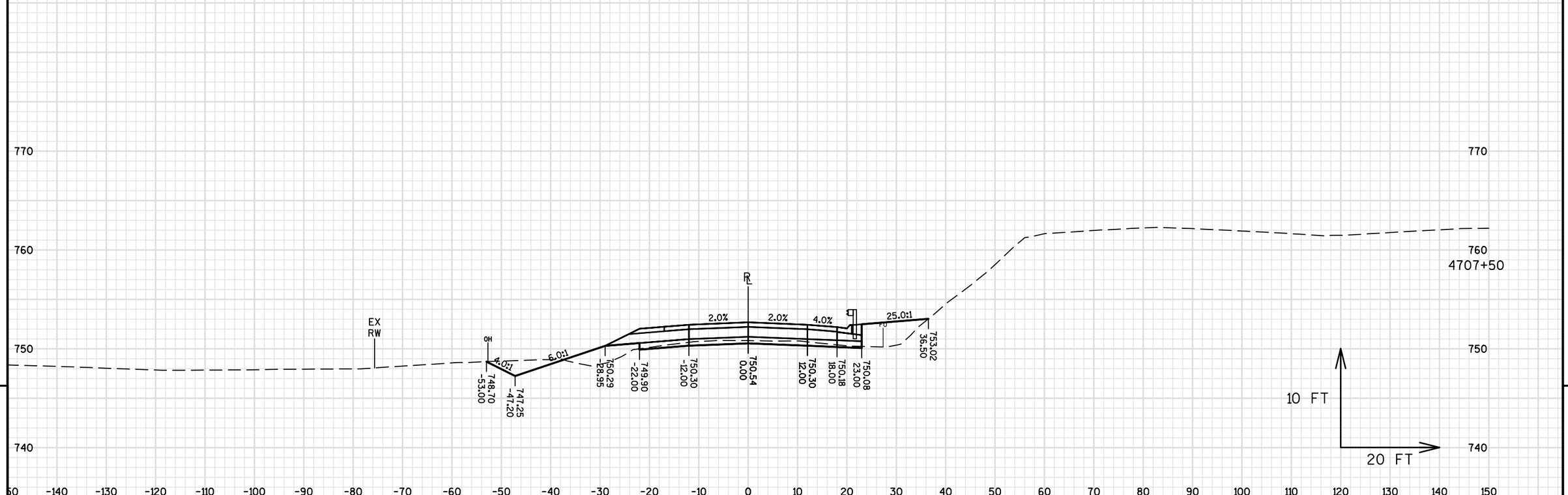
PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 203	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-WFR.DWG
LAYOUT NAME - 38

PLOT DATE : 8/31/2016 3:20 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT



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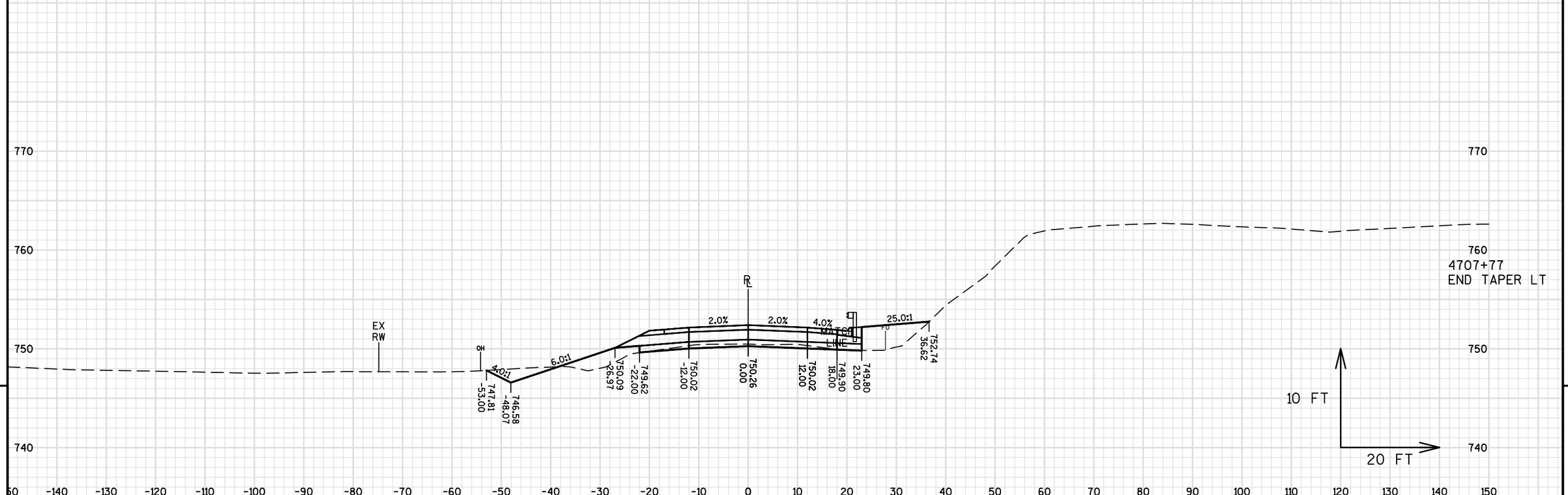
9

PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 204	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-WFR.DWG
LAYOUT NAME - 39

PLOT DATE : 8/31/2016 3:20 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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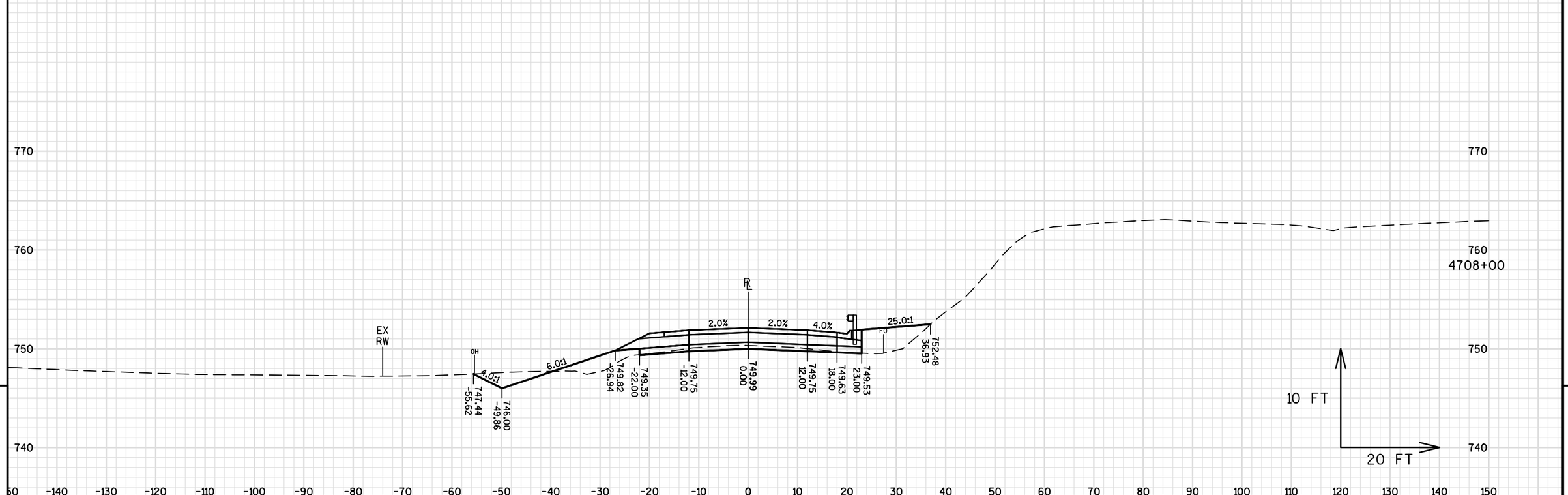
PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 205	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-WFR.DWG
LAYOUT NAME - 40

PLOT DATE : 8/31/2016 3:20 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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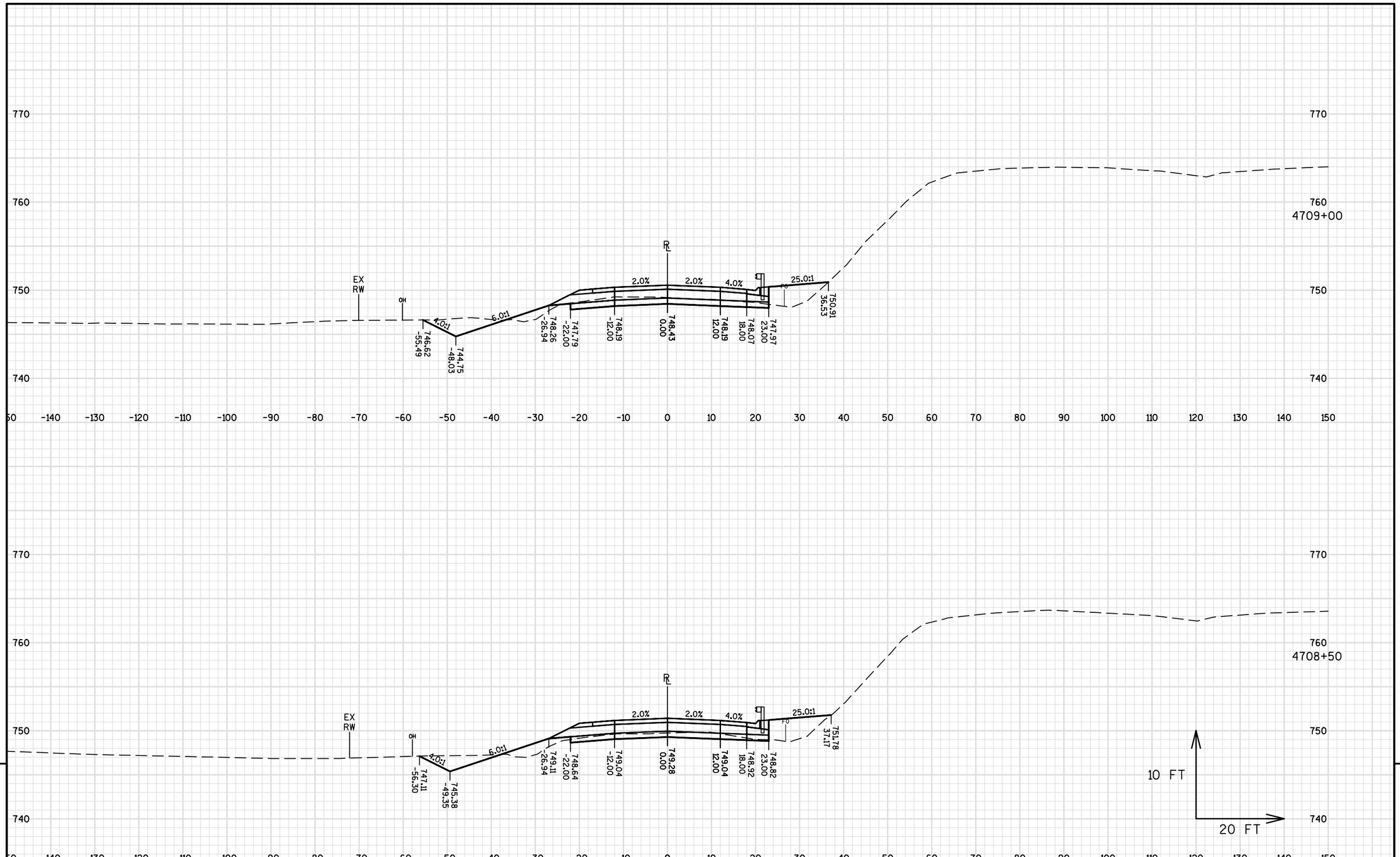
PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 206	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-WFR.DWG
LAYOUT NAME - 41

PLOT DATE : 8/31/2016 3:20 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT



9

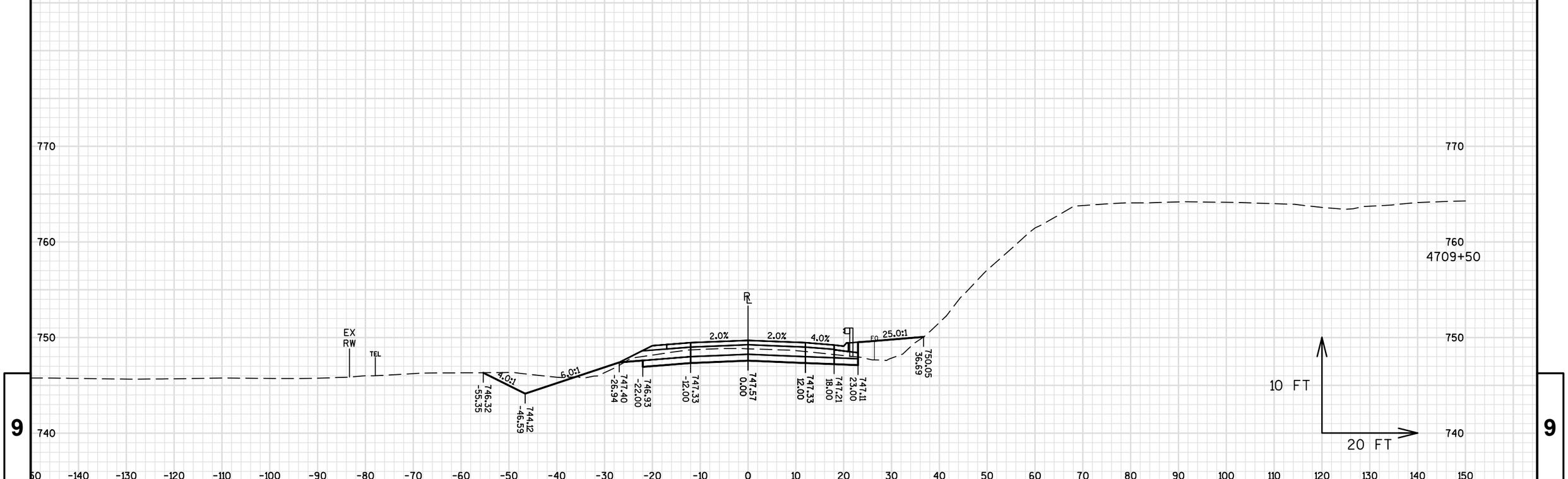
9

PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 207 E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-WFR.DWG
LAYOUT NAME - 42

PLOT DATE : 8/31/2016 3:20 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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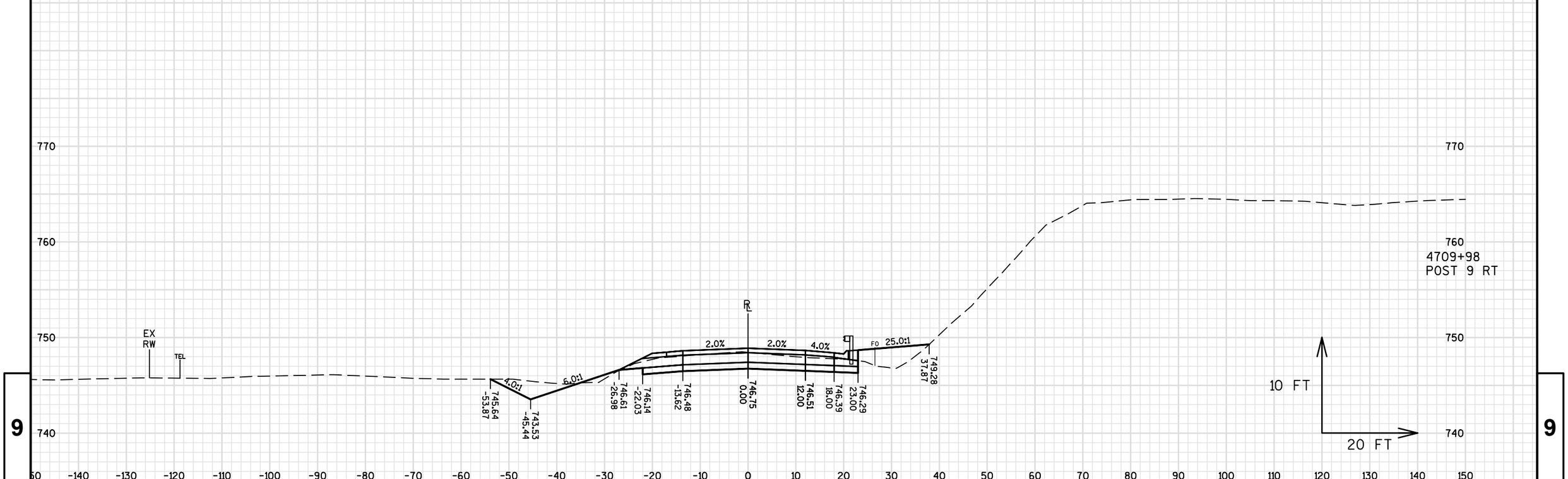
9

PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 208	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-WFR.DWG
LAYOUT NAME - 43

PLOT DATE : 8/31/2016 3:20 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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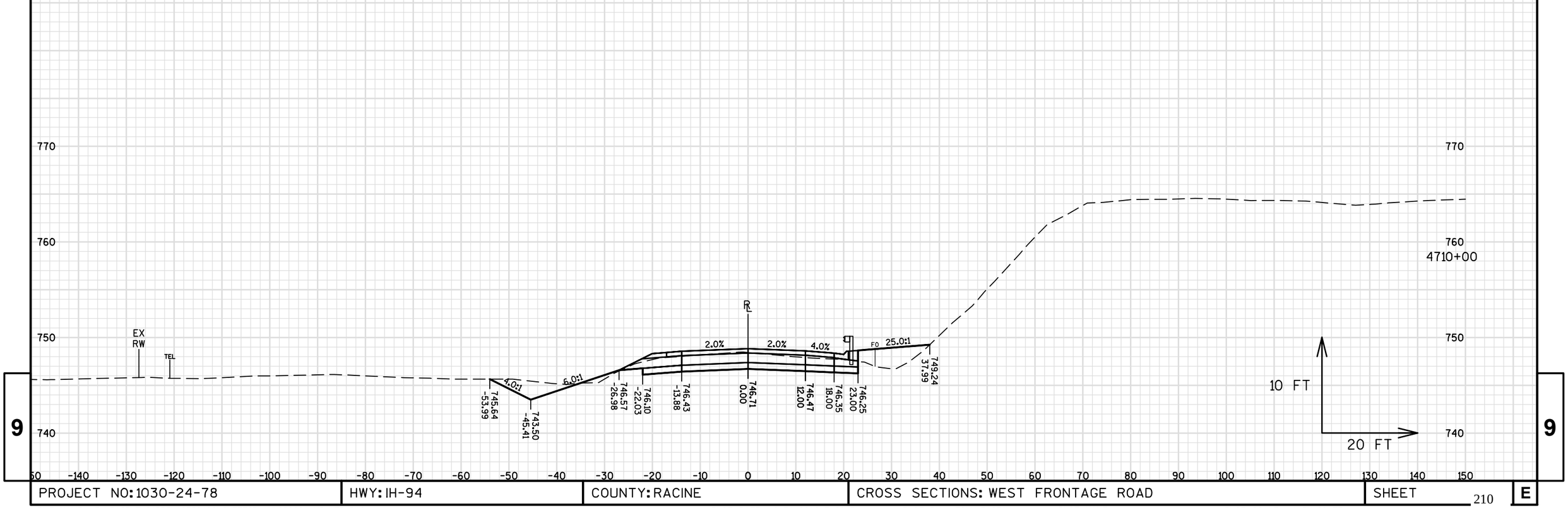
9

PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-WFR.DWG
LAYOUT NAME - 44

PLOT DATE : 8/31/2016 3:20 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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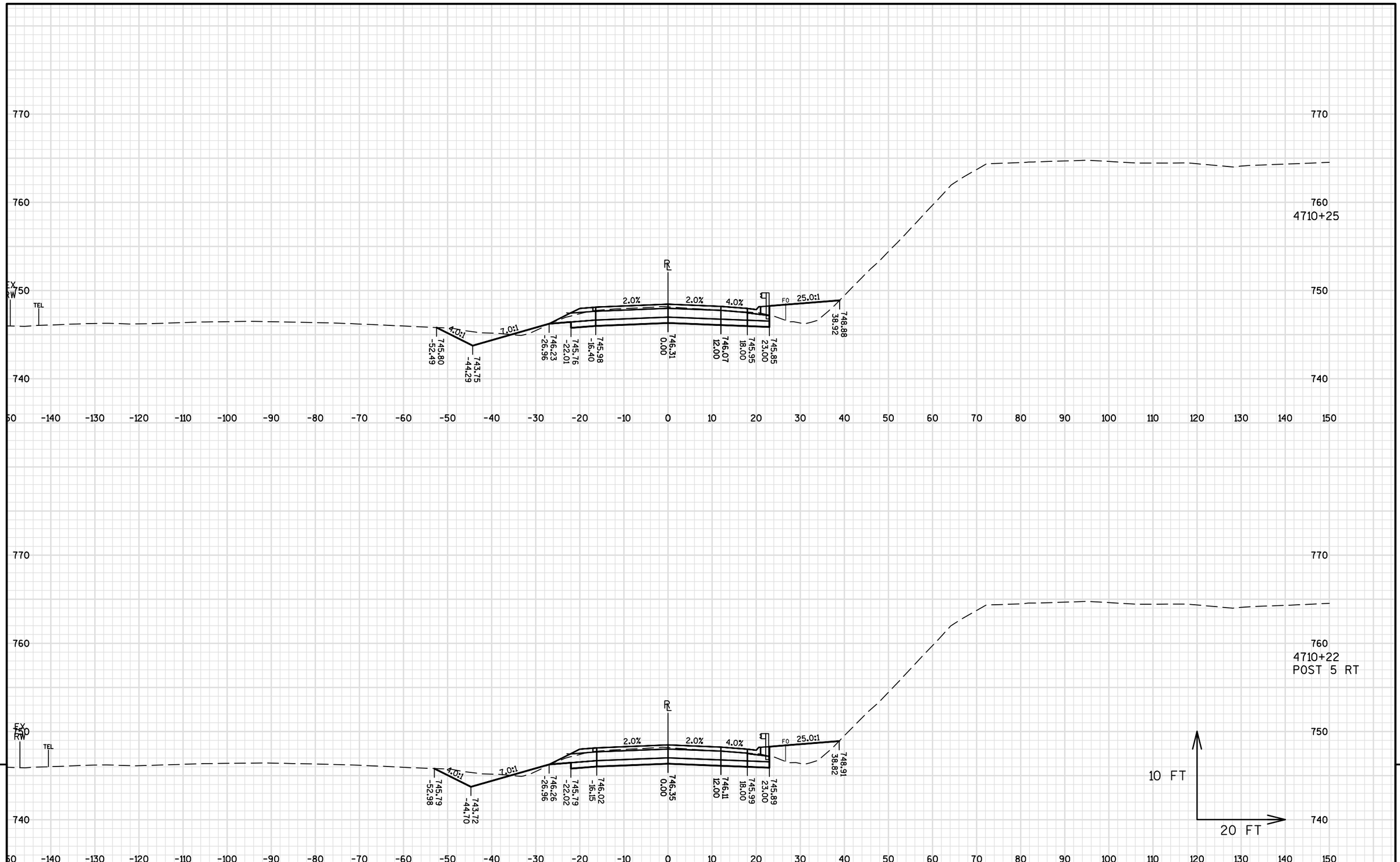
9

PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 210	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-WFR.DWG
LAYOUT NAME - 45

PLOT DATE : 8/31/2016 3:20 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



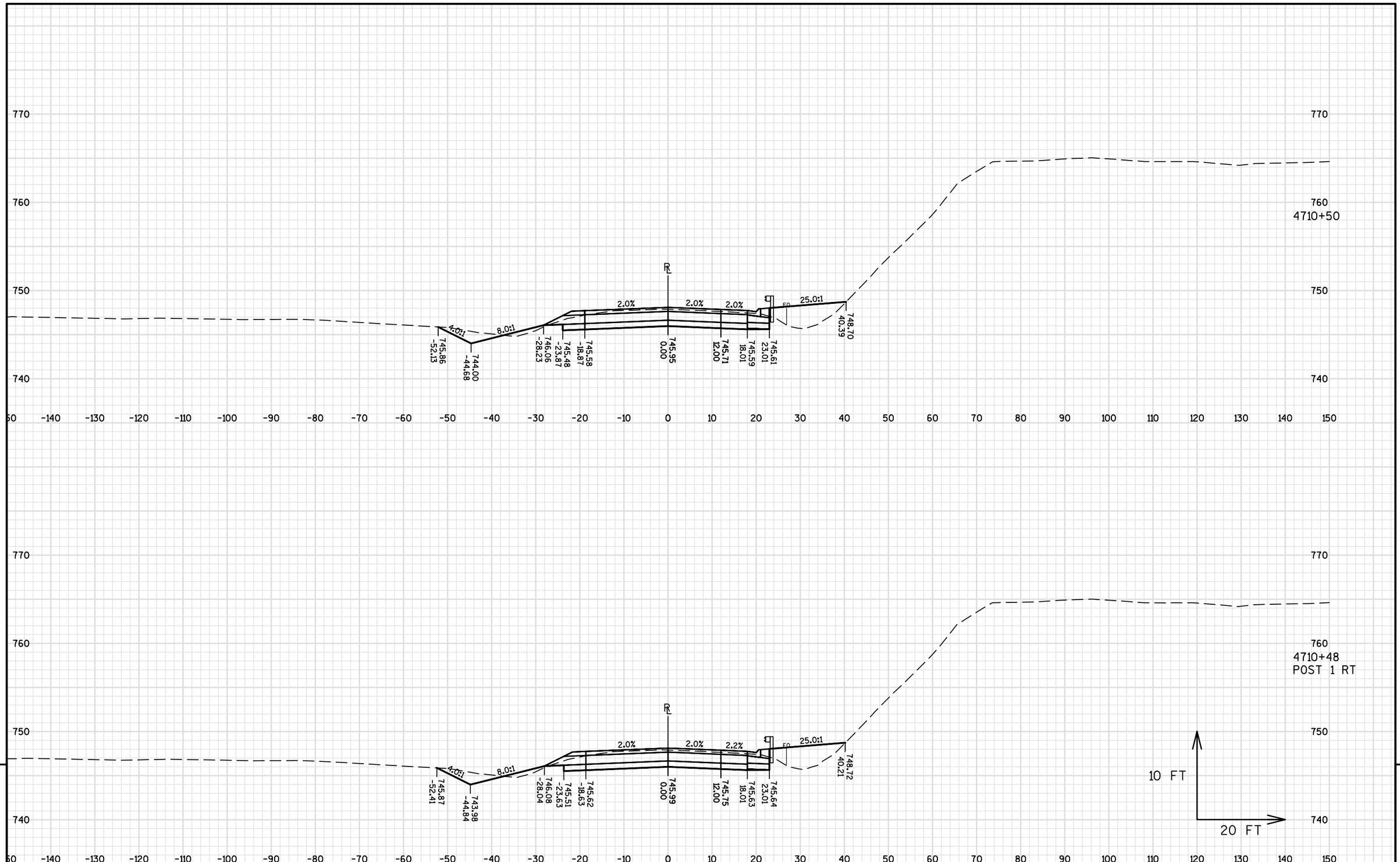
9 9

PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 211	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-WFR.DWG
LAYOUT NAME - 46

PLOT DATE : 8/31/2016 3:20 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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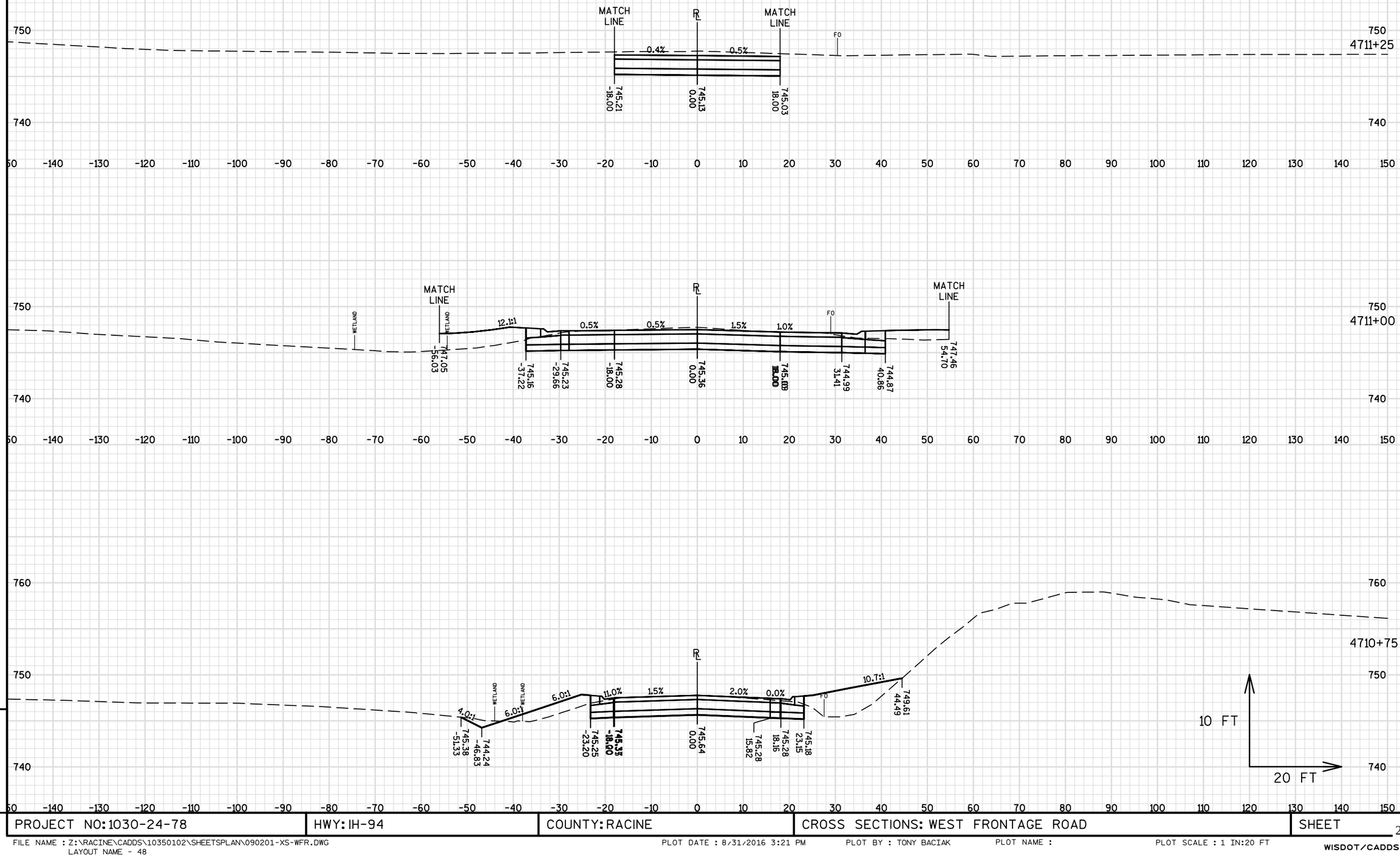
9

PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 212	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-WFR.DWG
LAYOUT NAME - 47

PLOT DATE : 8/31/2016 3:21 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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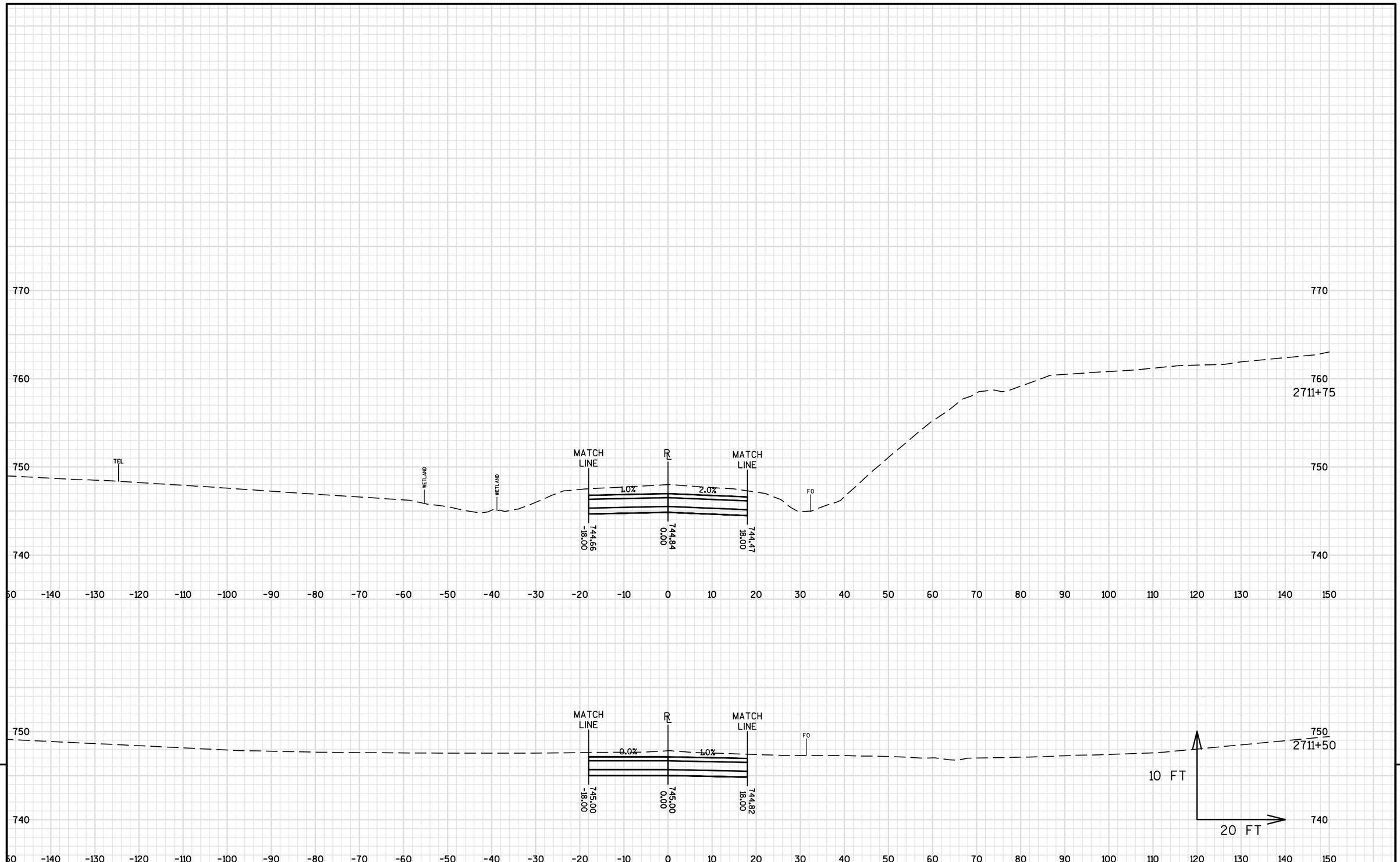
9

PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-WFR.DWG
LAYOUT NAME - 48

PLOT DATE : 8/31/2016 3:21 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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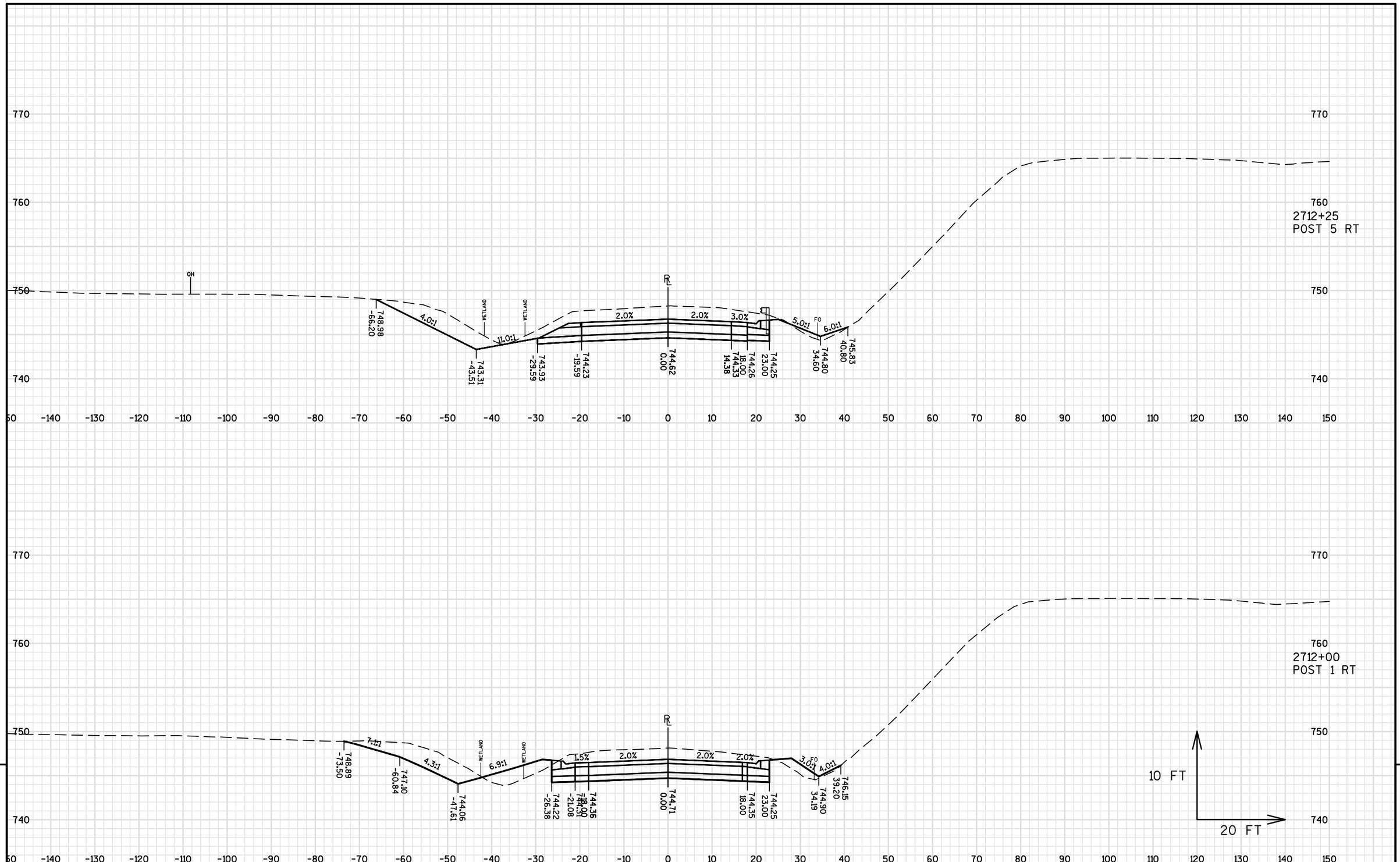
PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 214	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-WFR.DWG
LAYOUT NAME - 49

PLOT DATE : 8/31/2016 3:21 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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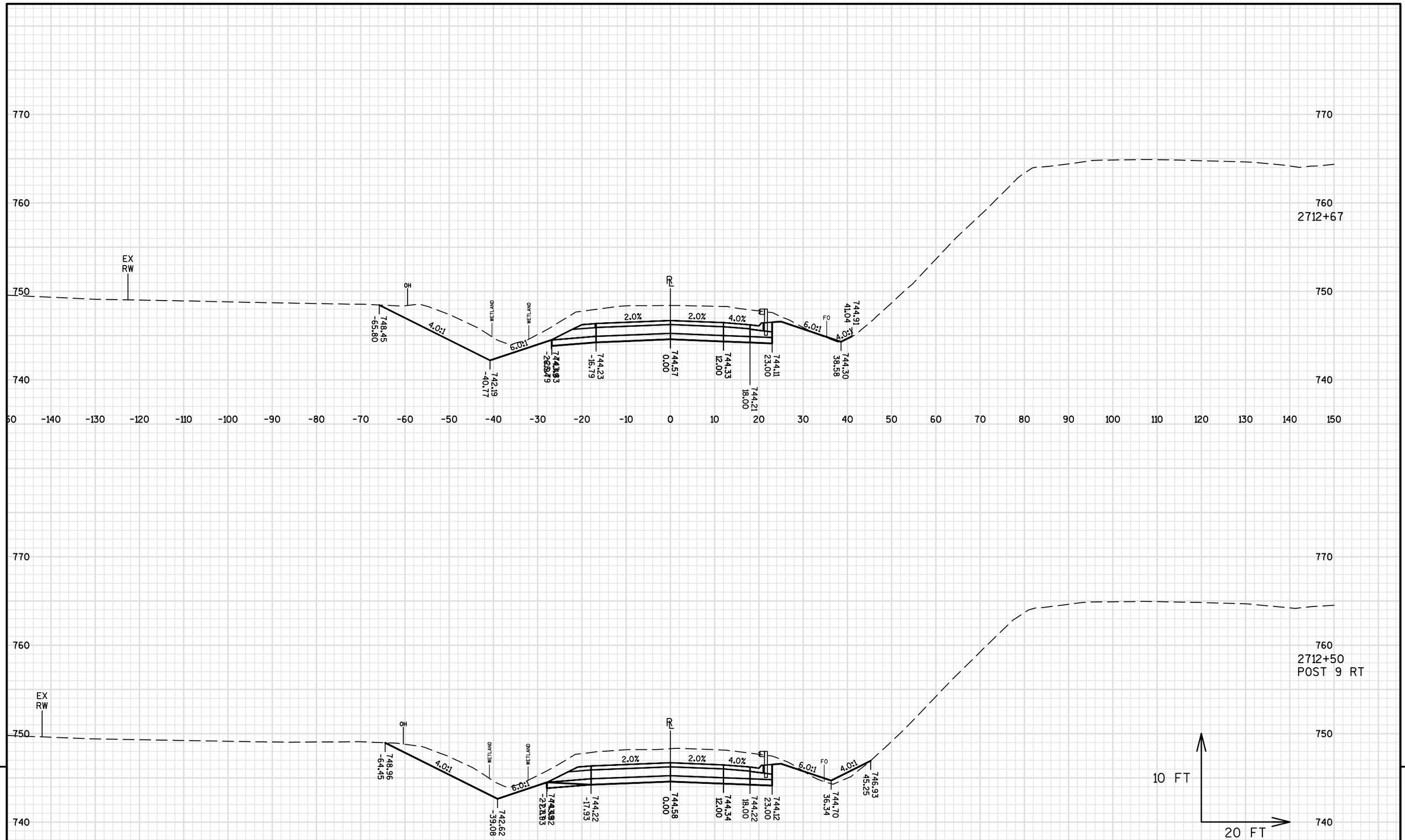
PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 215	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-WFR.DWG
LAYOUT NAME - 50

PLOT DATE : 8/31/2016 3:21 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT



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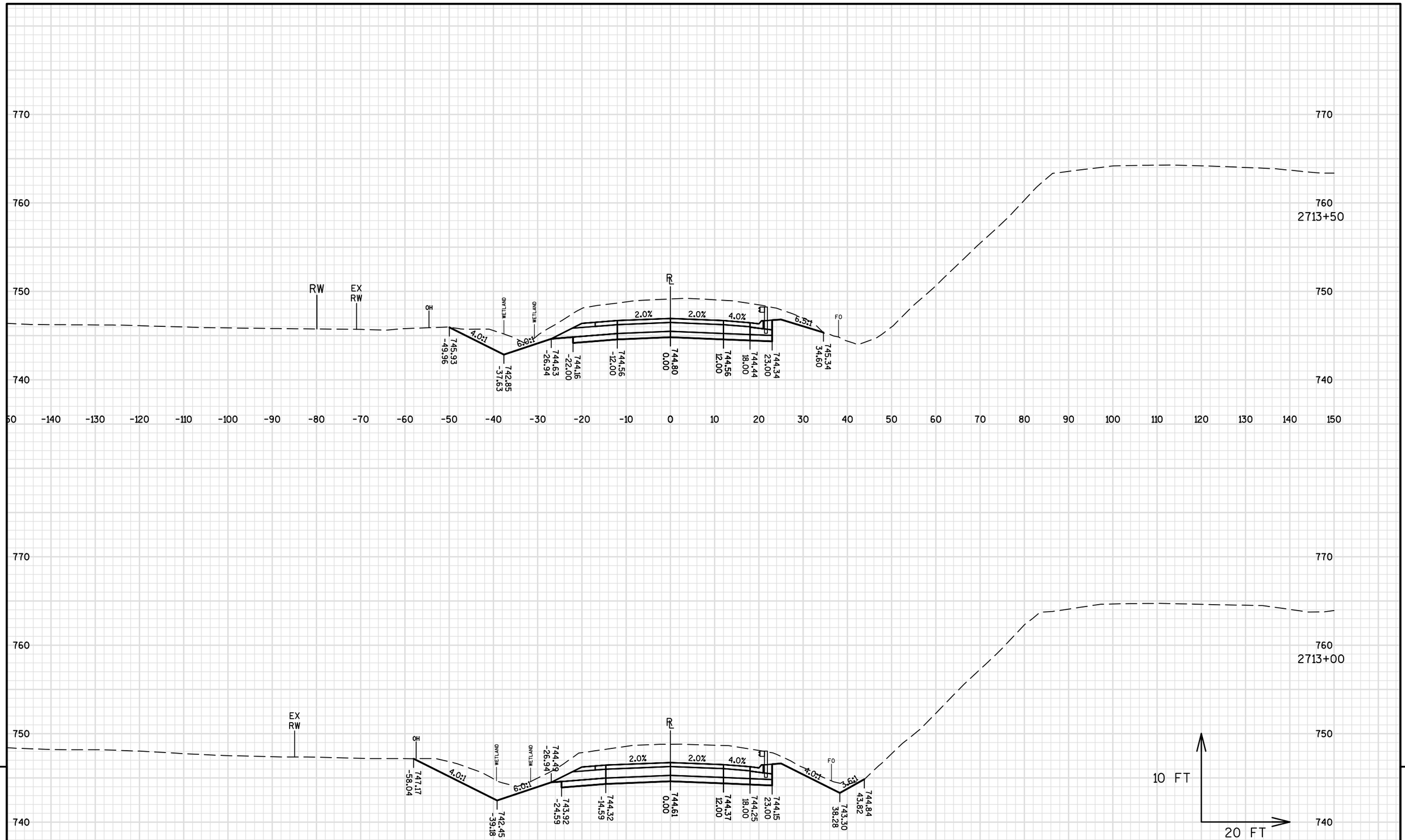
9

PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-WFR.DWG
LAYOUT NAME - 51

PLOT DATE : 8/31/2016 3:21 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

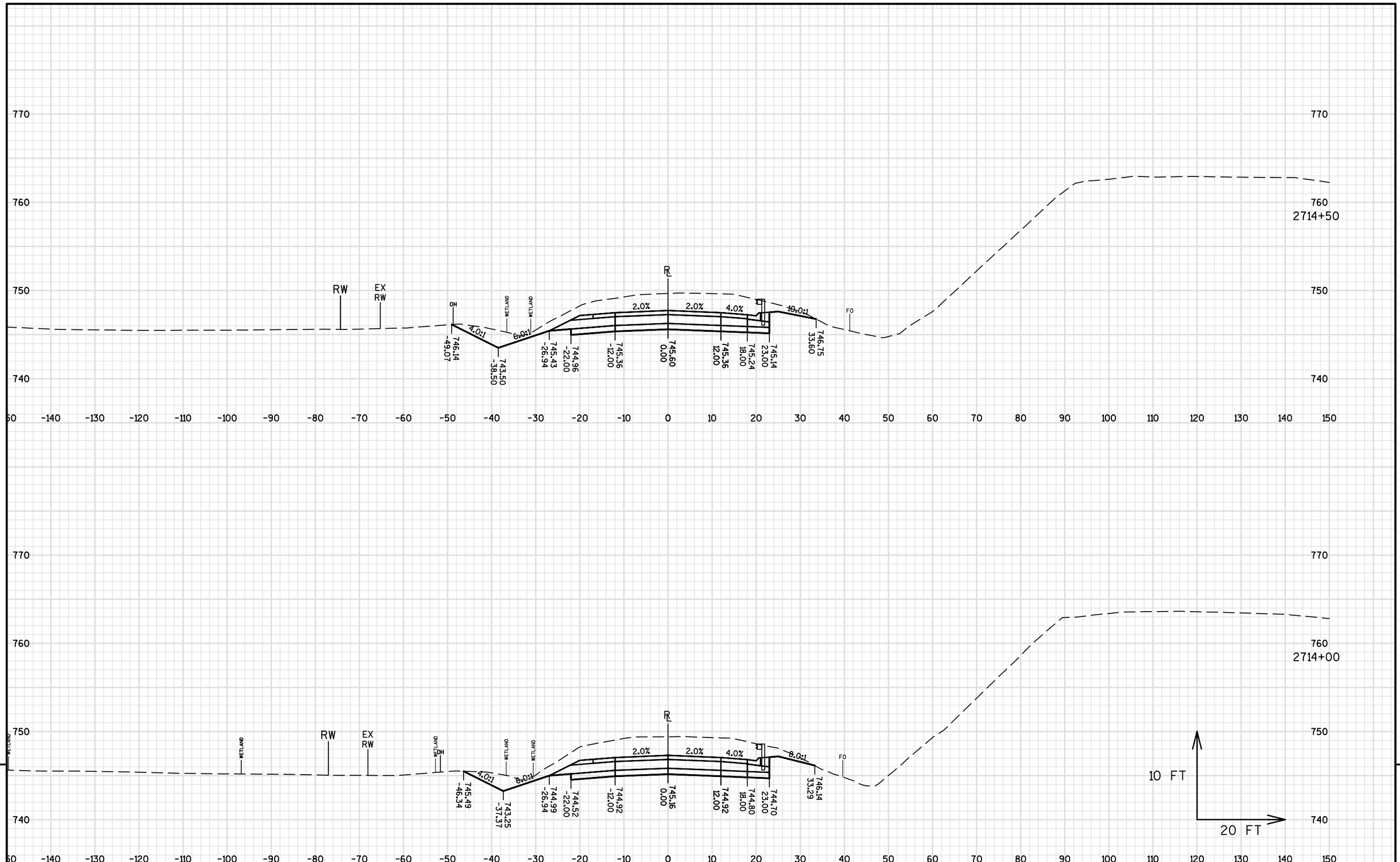


PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 217 E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-WFR.DWG
LAYOUT NAME - 52

PLOT DATE : 8/31/2016 3:21 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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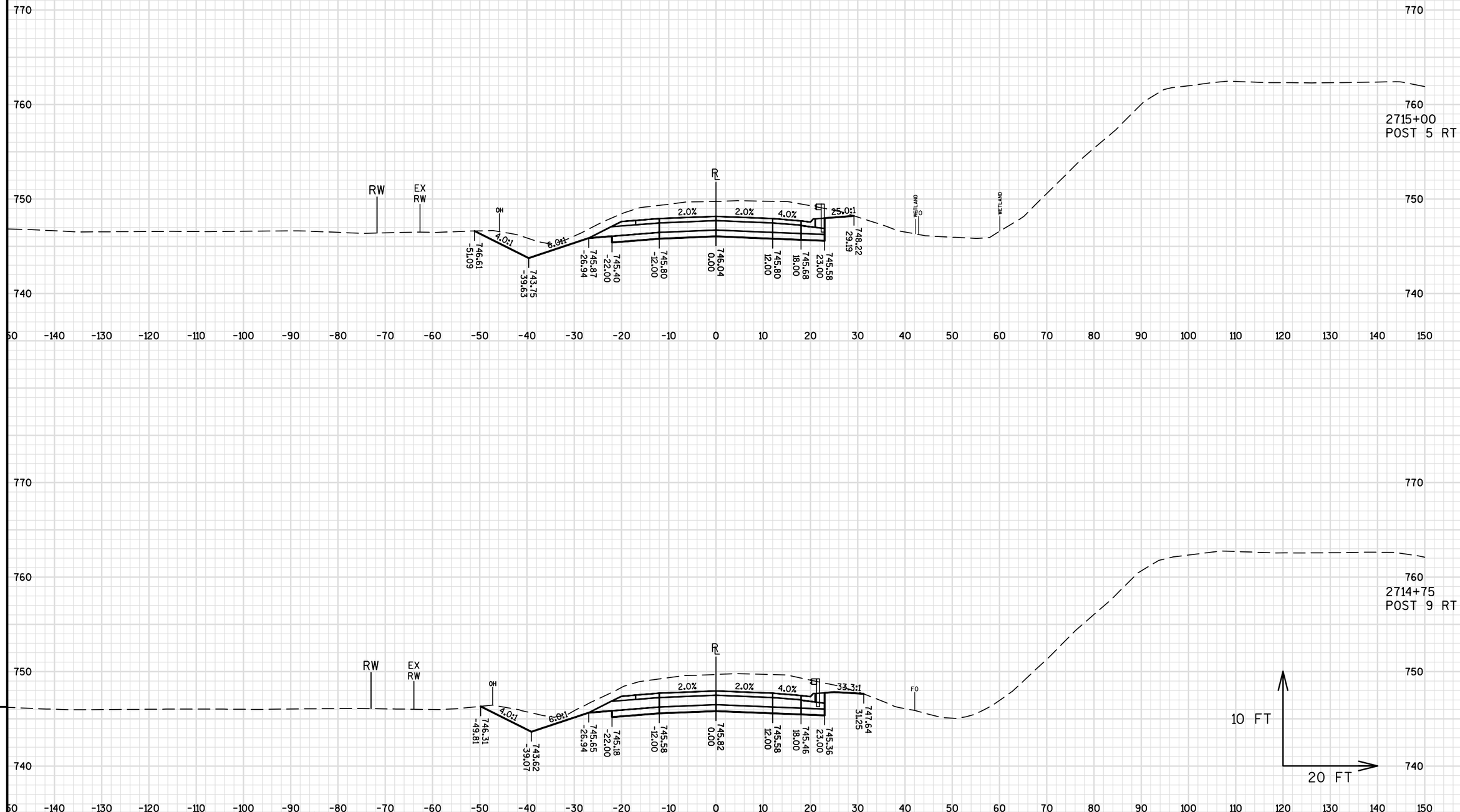
PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 218	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-WFR.DWG
LAYOUT NAME - 53

PLOT DATE : 8/31/2016 3:21 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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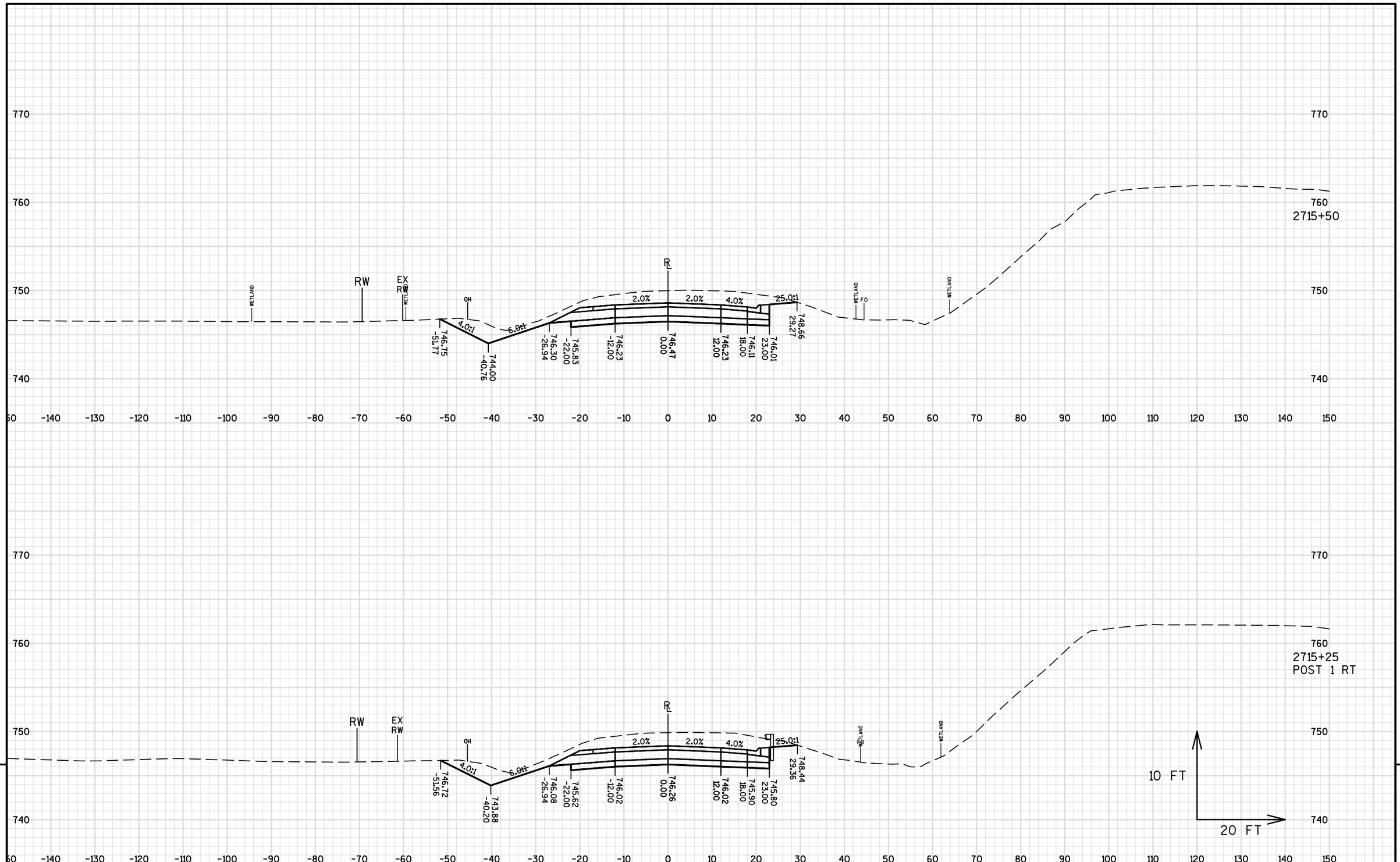
9

PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 219	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-WFR.DWG
LAYOUT NAME - 54

PLOT DATE : 8/31/2016 3:21 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT



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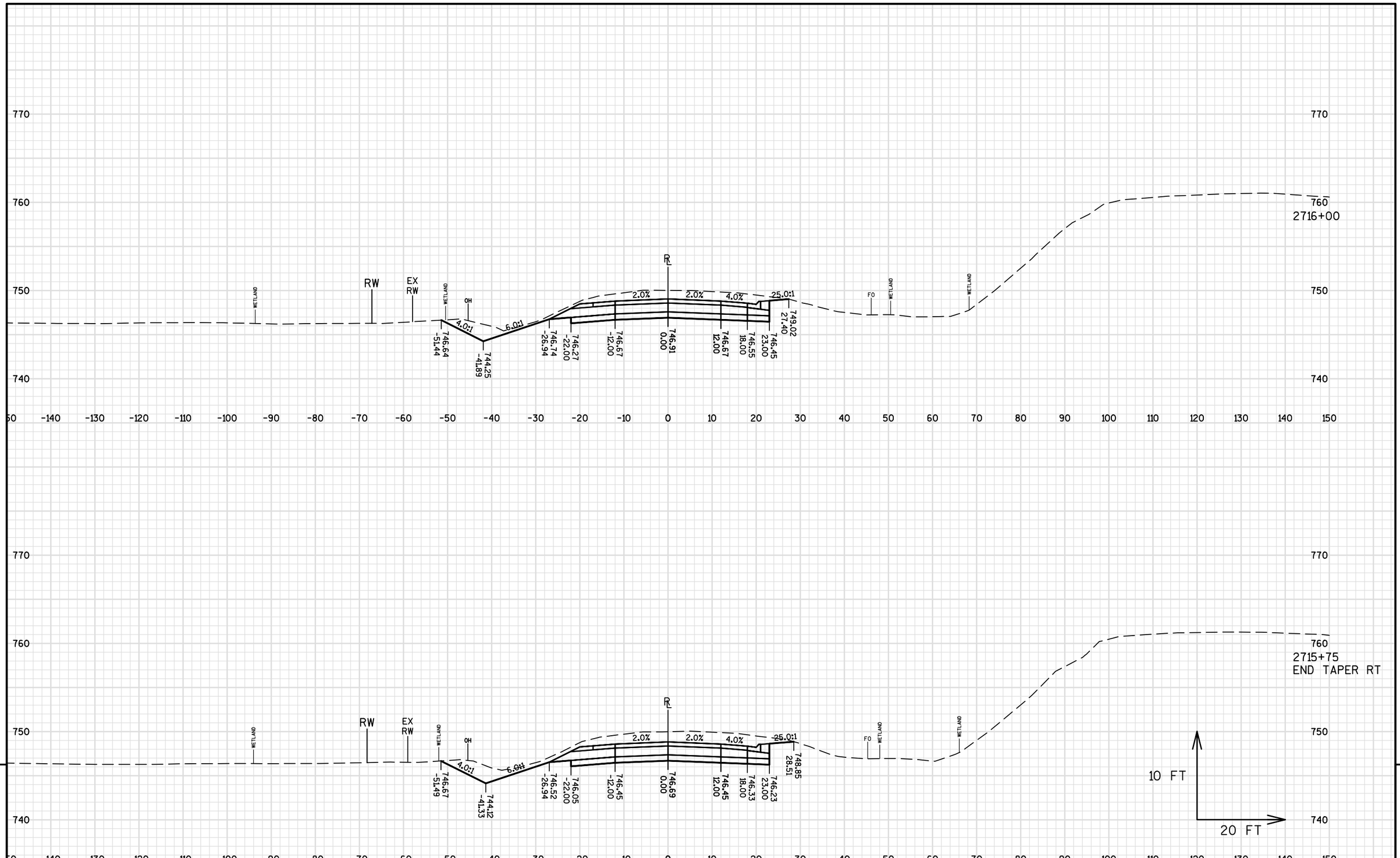
PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 220	E

9

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-WFR.DWG
LAYOUT NAME - 55

PLOT DATE : 8/31/2016 3:21 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



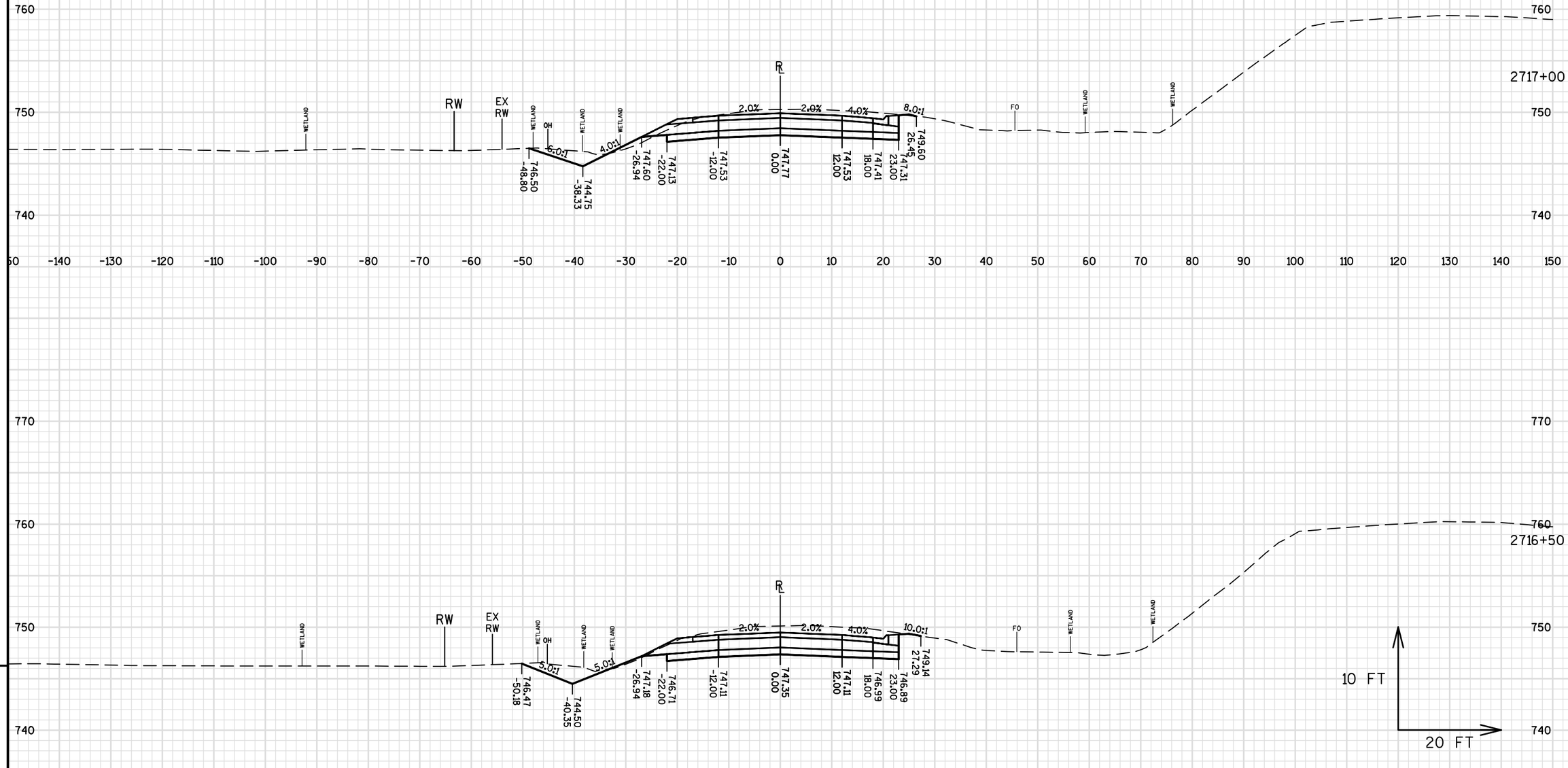
9

9

PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 221	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-WFR.DWG
LAYOUT NAME - 56

PLOT DATE : 8/31/2016 3:22 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT



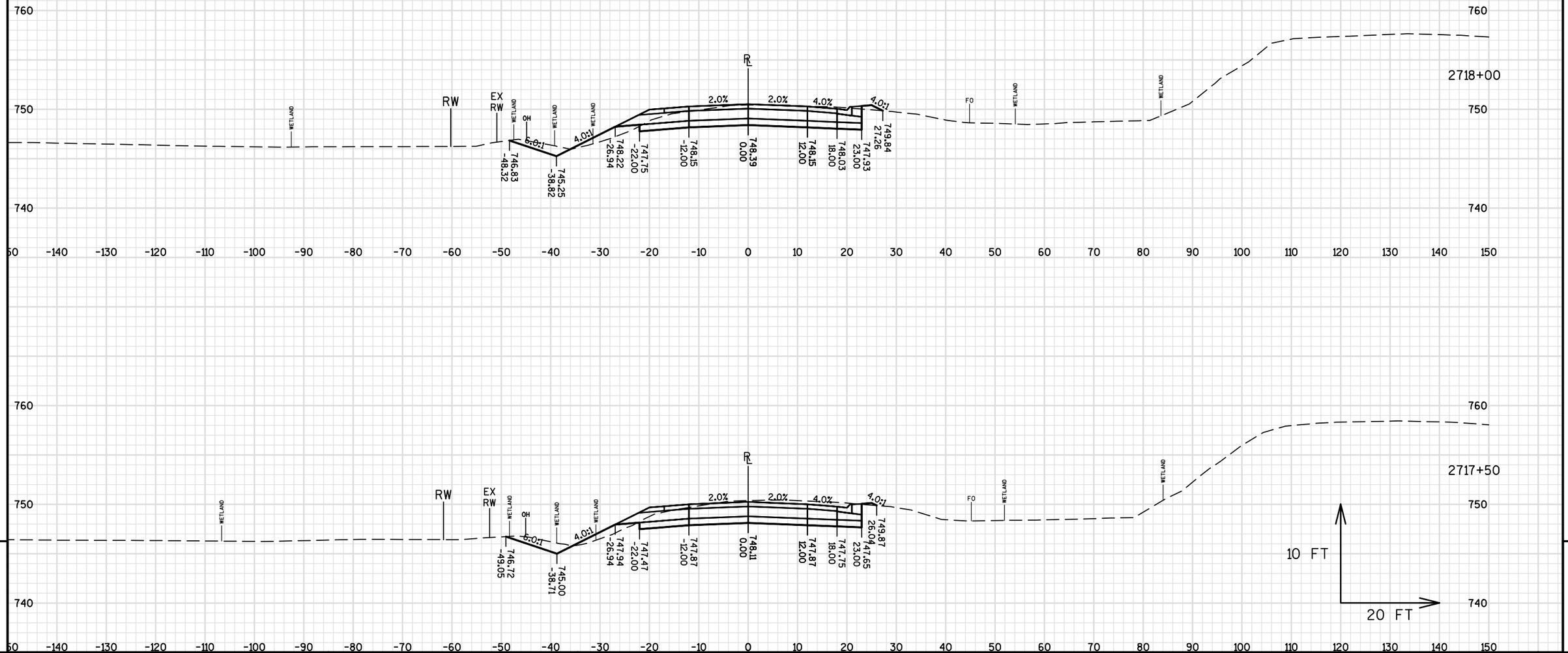
9 9

PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-WFR.DWG
LAYOUT NAME - 57

PLOT DATE : 8/31/2016 3:22 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

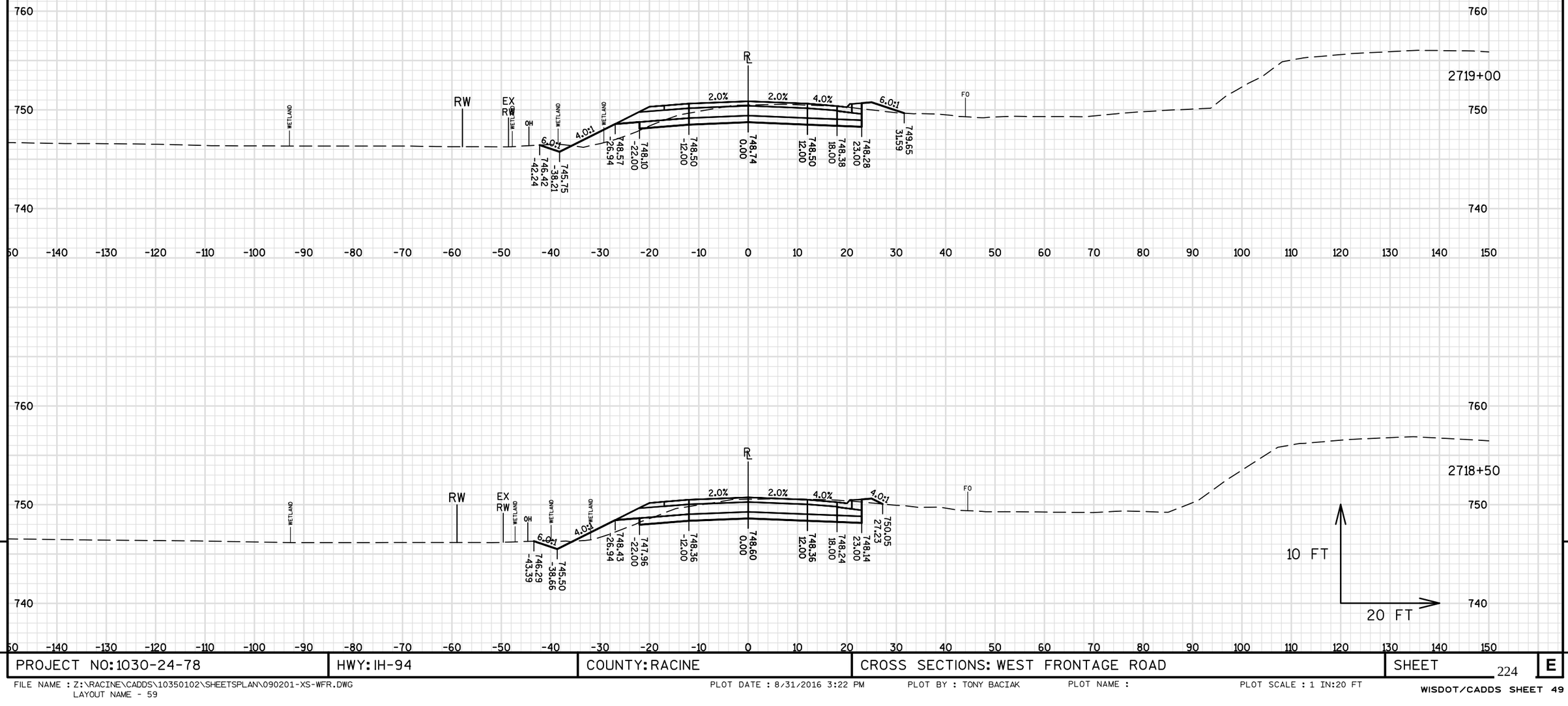


PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 223	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-WFR.DWG
LAYOUT NAME - 58

PLOT DATE : 8/31/2016 3:22 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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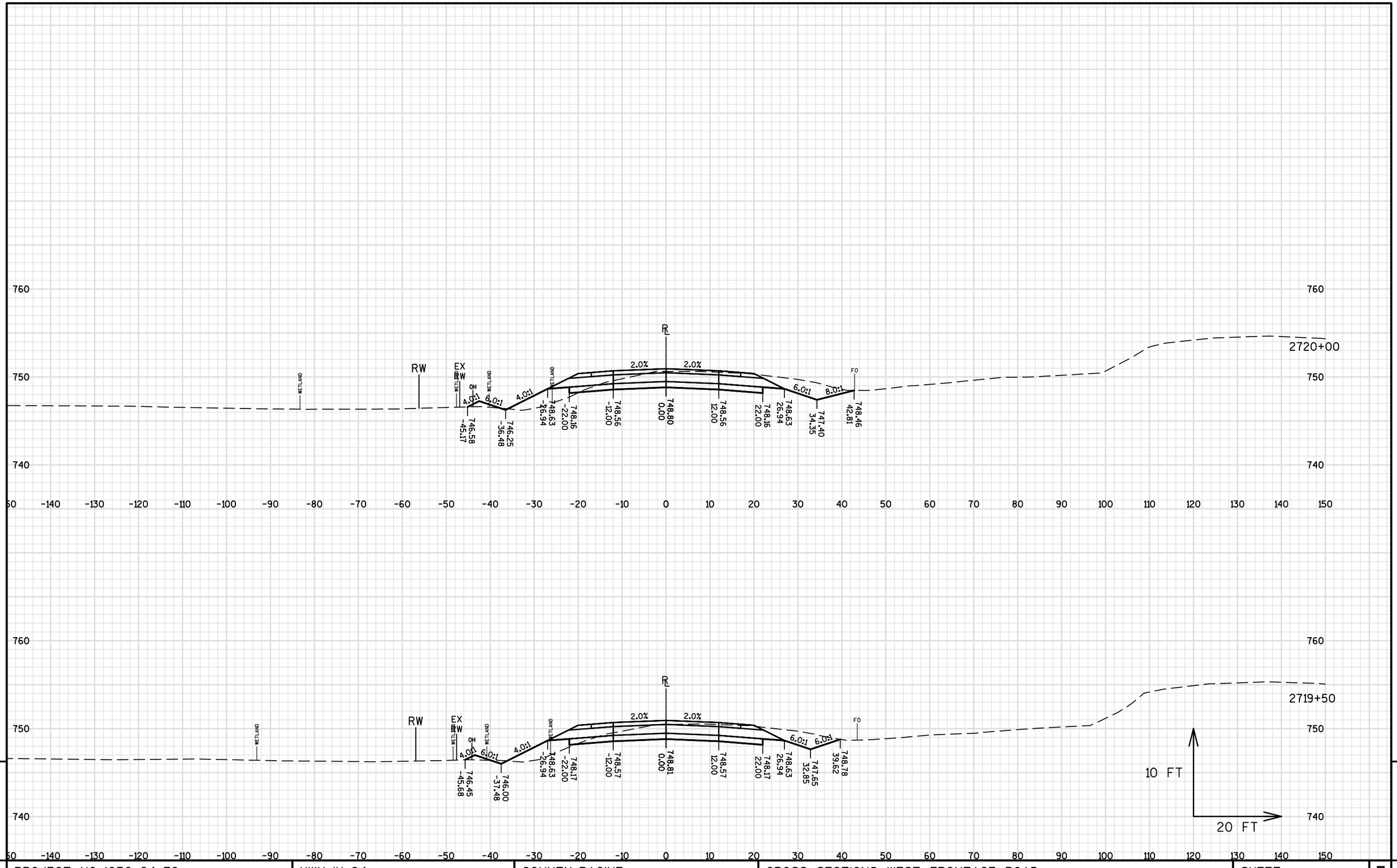
PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 224	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-WFR.DWG
LAYOUT NAME - 59

PLOT DATE : 8/31/2016 3:22 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

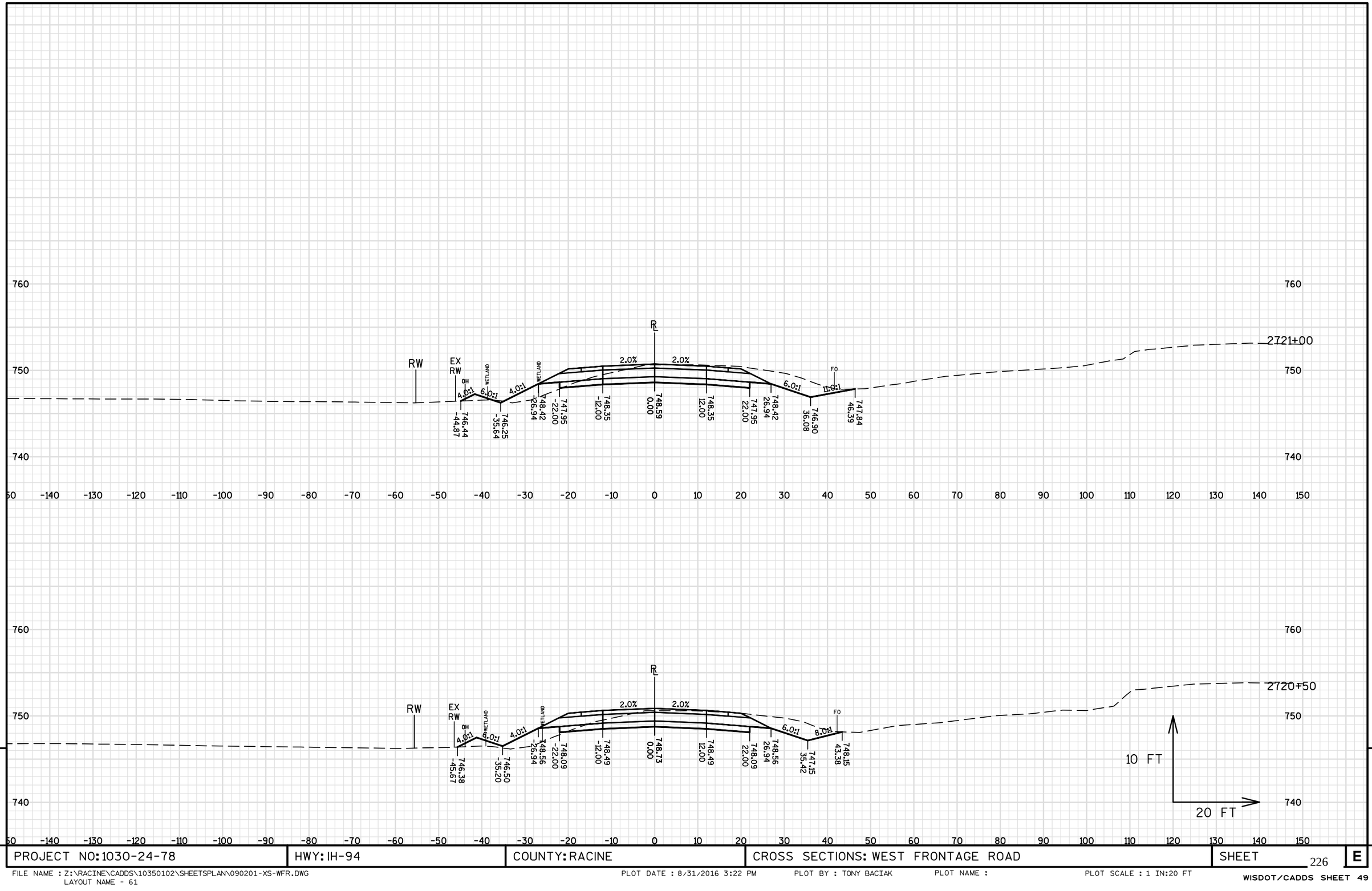
WISDOT/CADDS SHEET 49



PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-WFR.DWG
LAYOUT NAME - 60

PLOT DATE : 8/31/2016 3:22 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT



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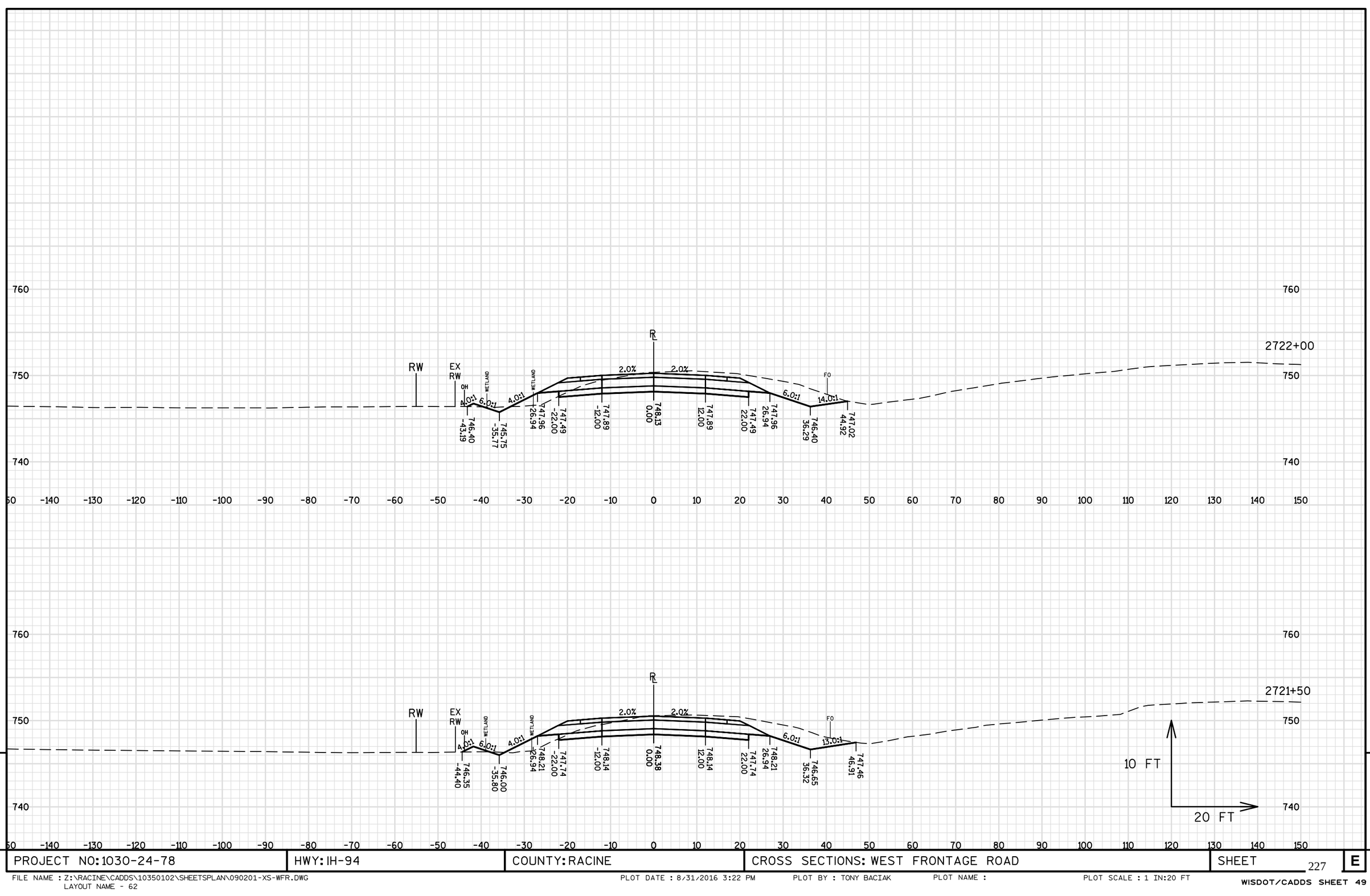
PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-WFR.DWG
LAYOUT NAME - 61

PLOT DATE : 8/31/2016 3:22 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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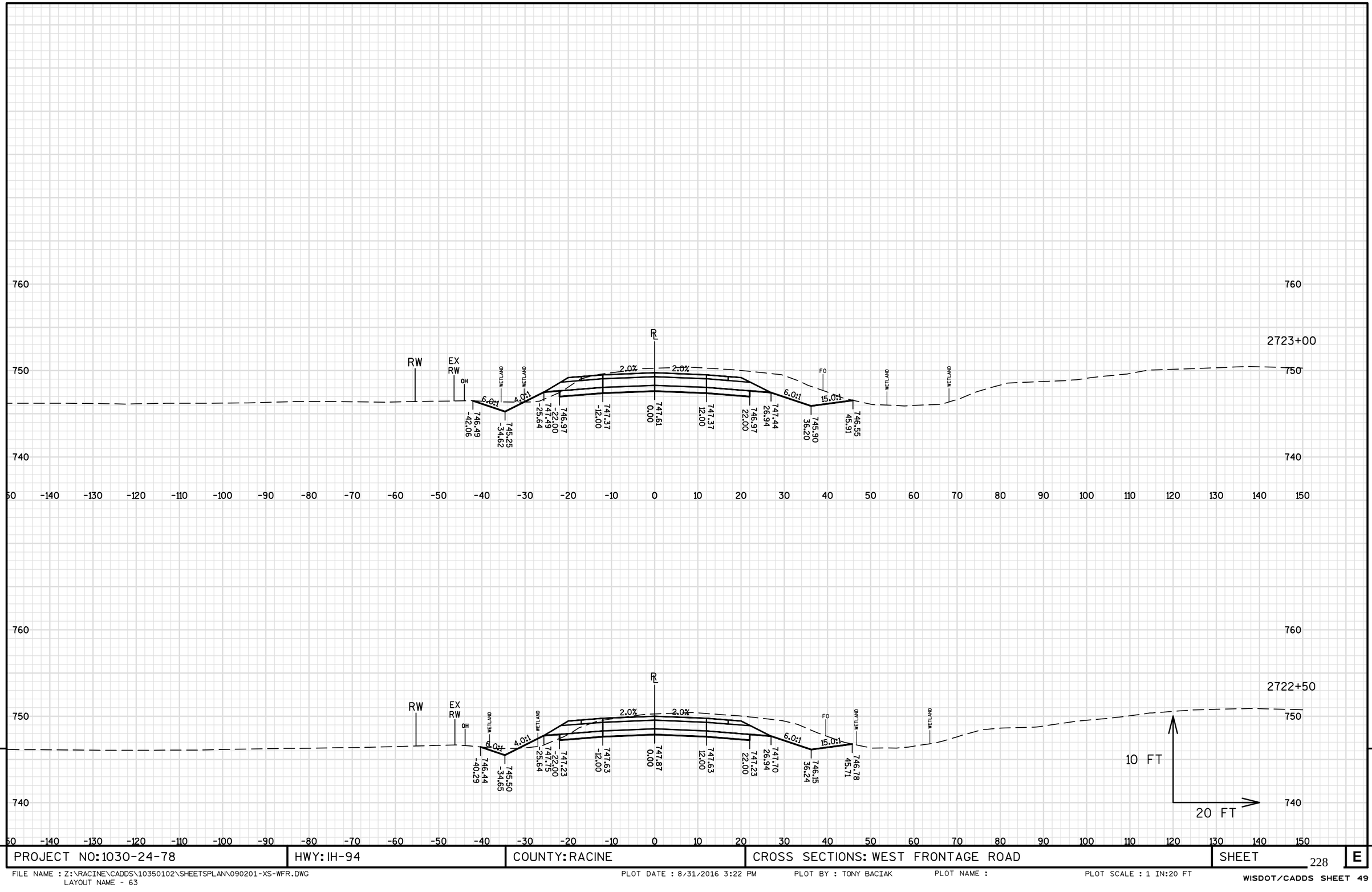
PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 227	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-WFR.DWG
LAYOUT NAME - 62

PLOT DATE : 8/31/2016 3:22 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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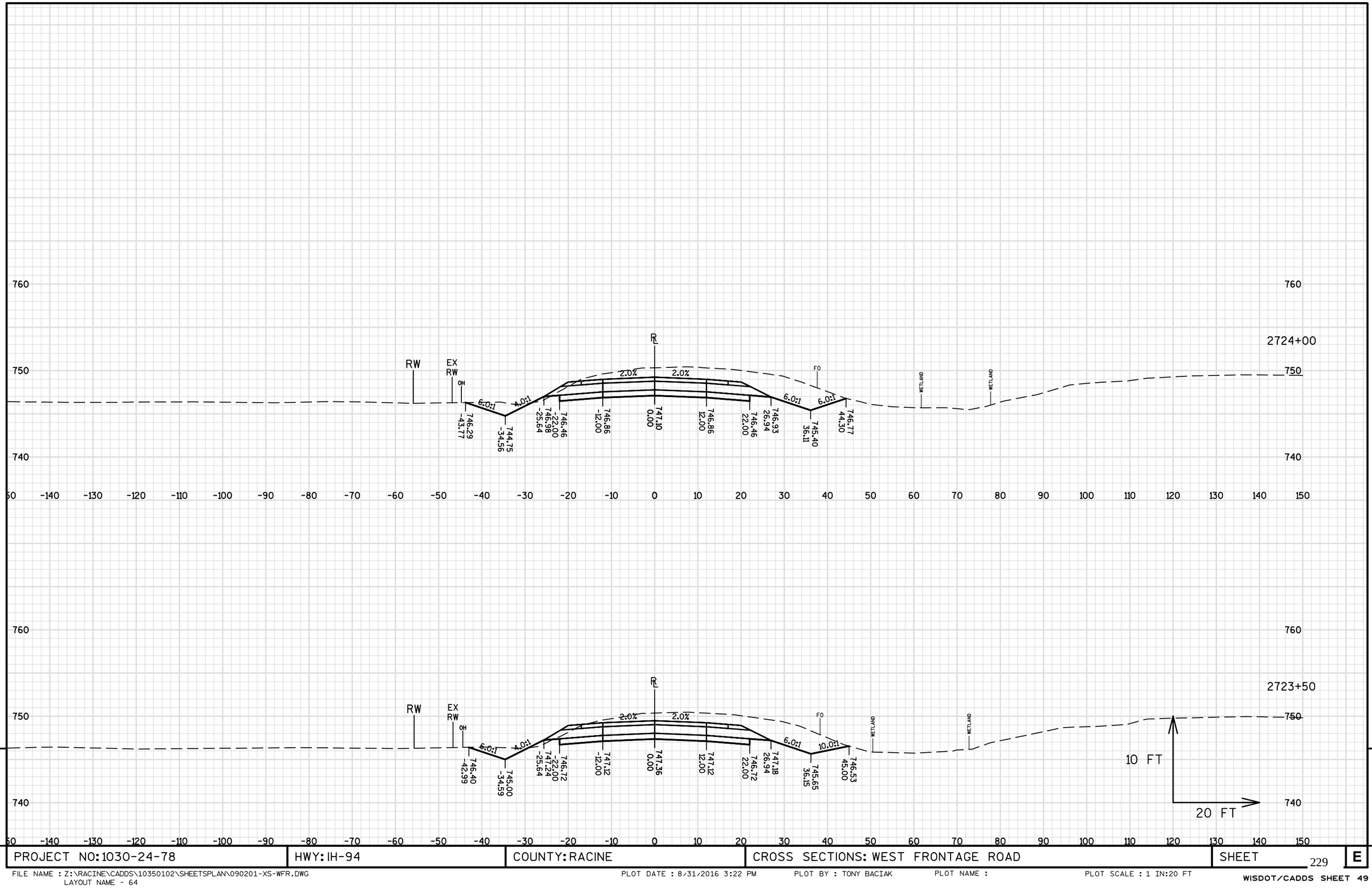
PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 228	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-WFR.DWG
LAYOUT NAME - 63

PLOT DATE : 8/31/2016 3:22 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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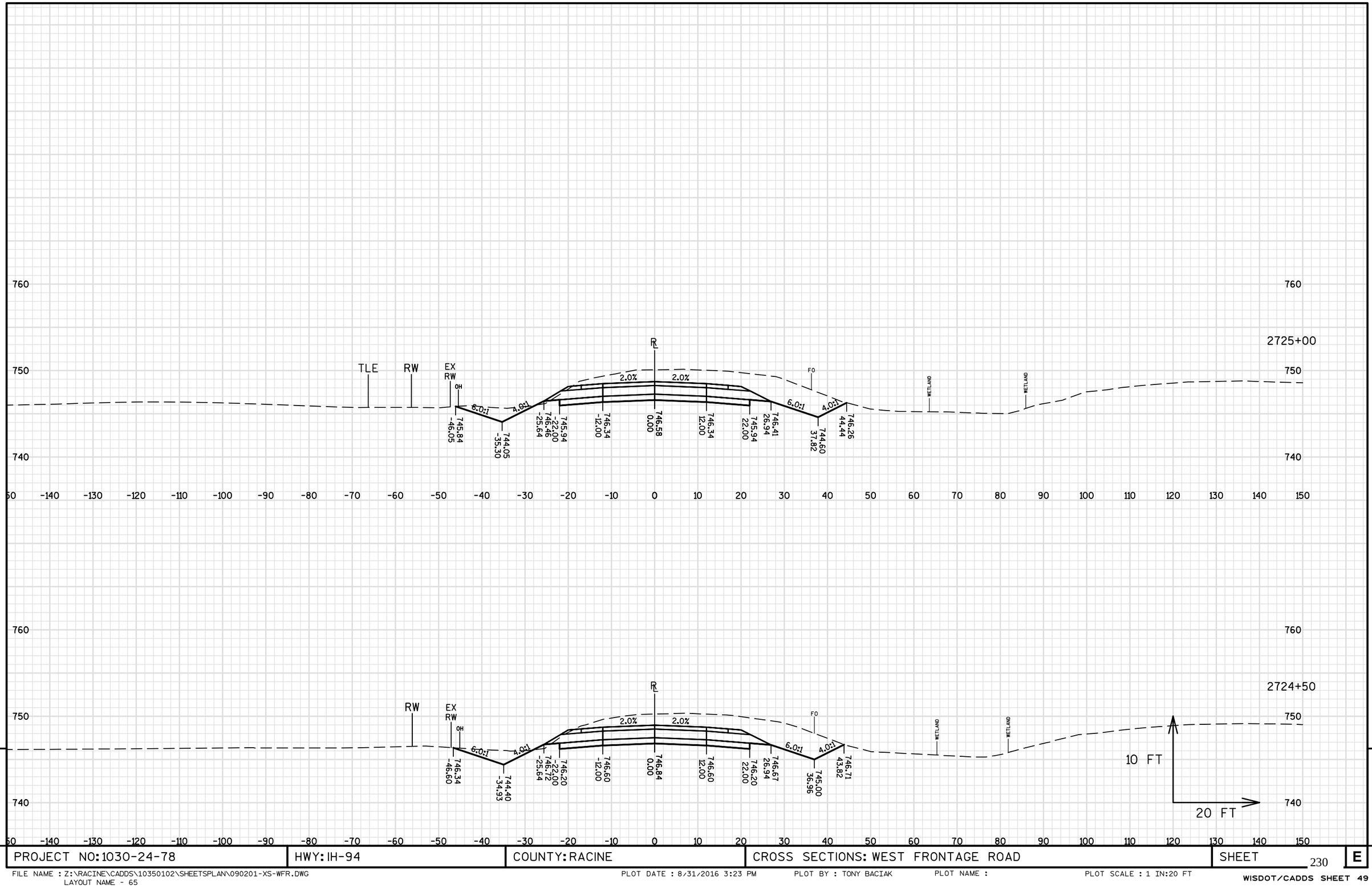
PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-WFR.DWG
LAYOUT NAME - 64

PLOT DATE : 8/31/2016 3:22 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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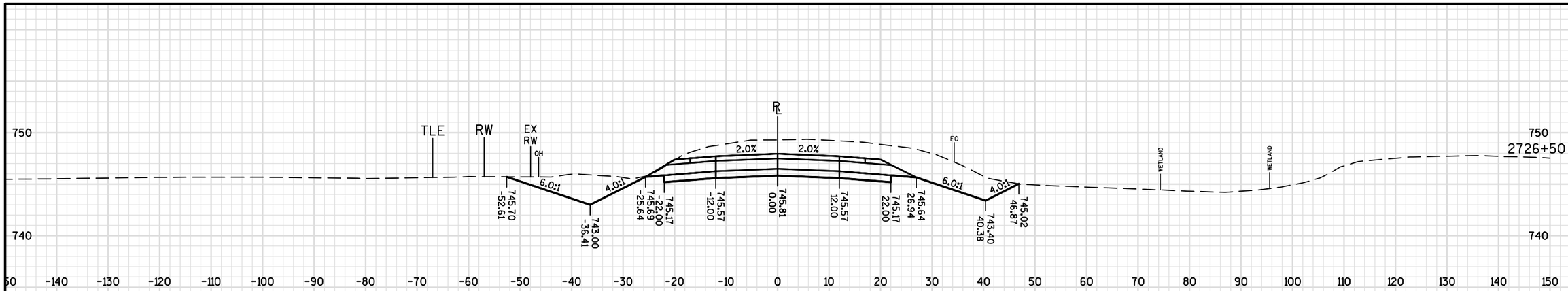
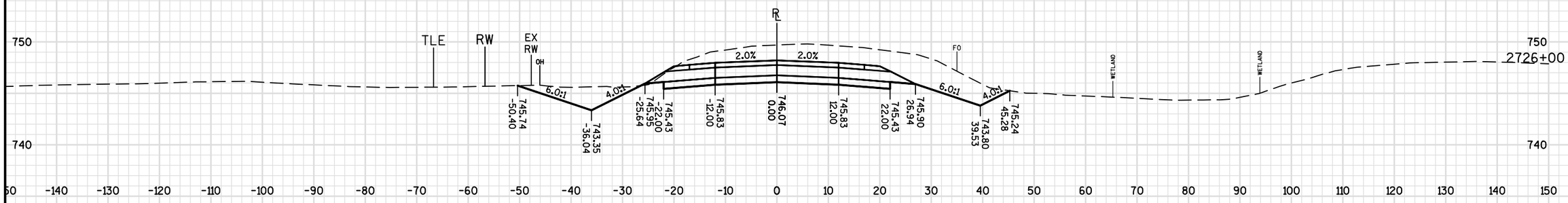
PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 230	E

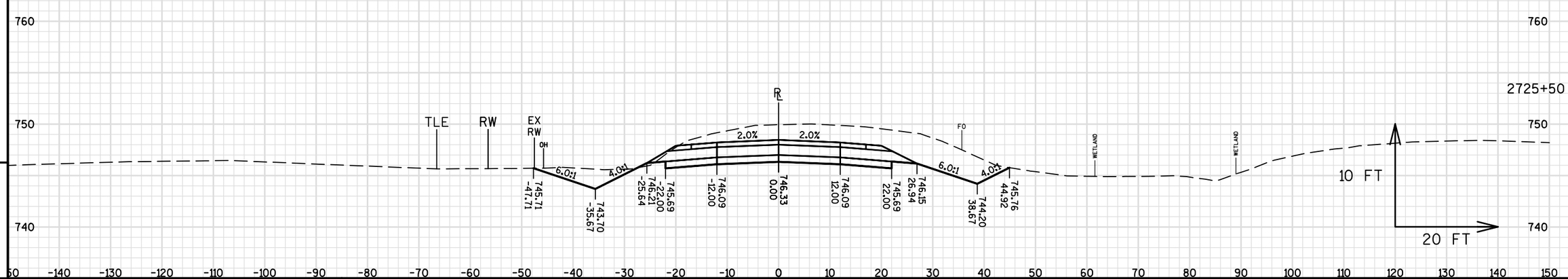
FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-WFR.DWG
LAYOUT NAME - 65

PLOT DATE : 8/31/2016 3:23 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49







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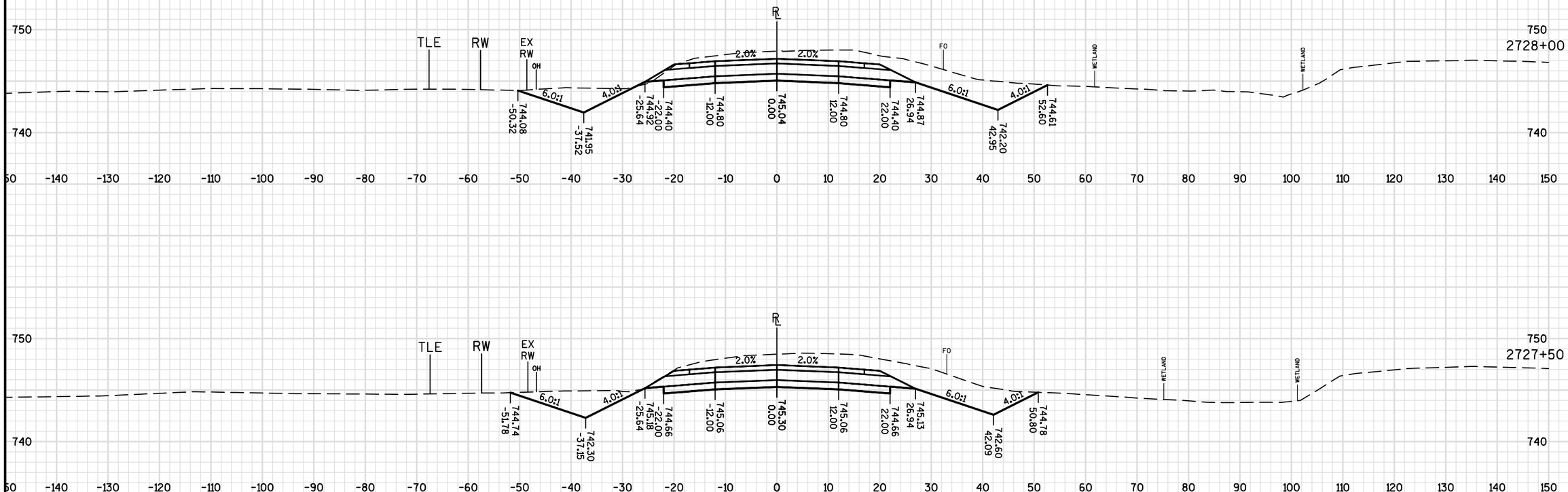
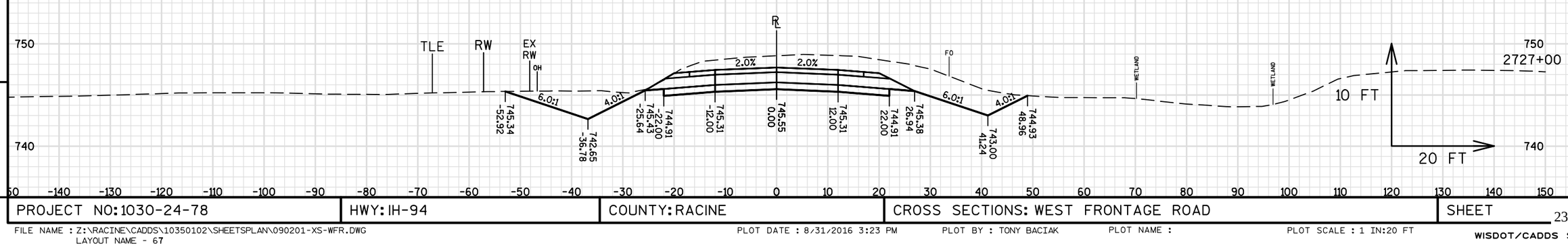
PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 231	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-WFR.DWG
LAYOUT NAME - 66

PLOT DATE : 8/31/2016 3:23 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49





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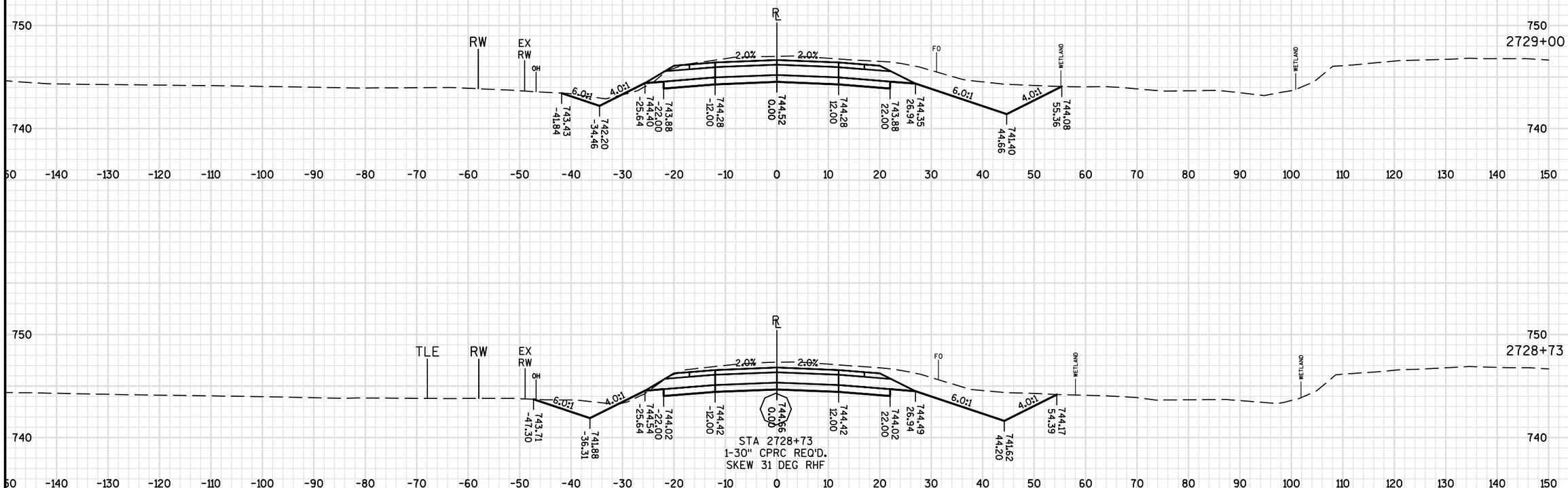
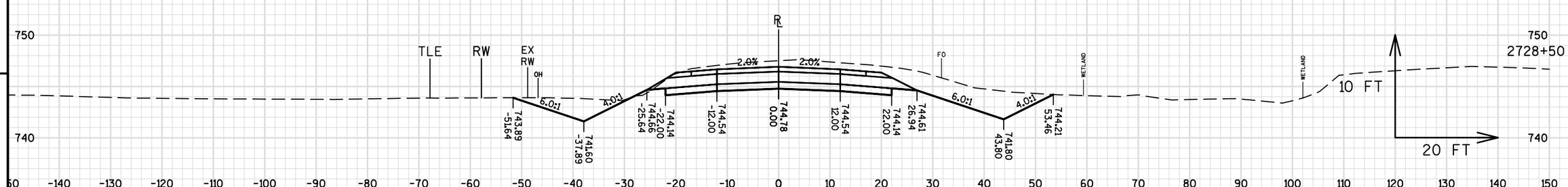
PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 232	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-WFR.DWG
LAYOUT NAME - 67

PLOT DATE : 8/31/2016 3:23 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49





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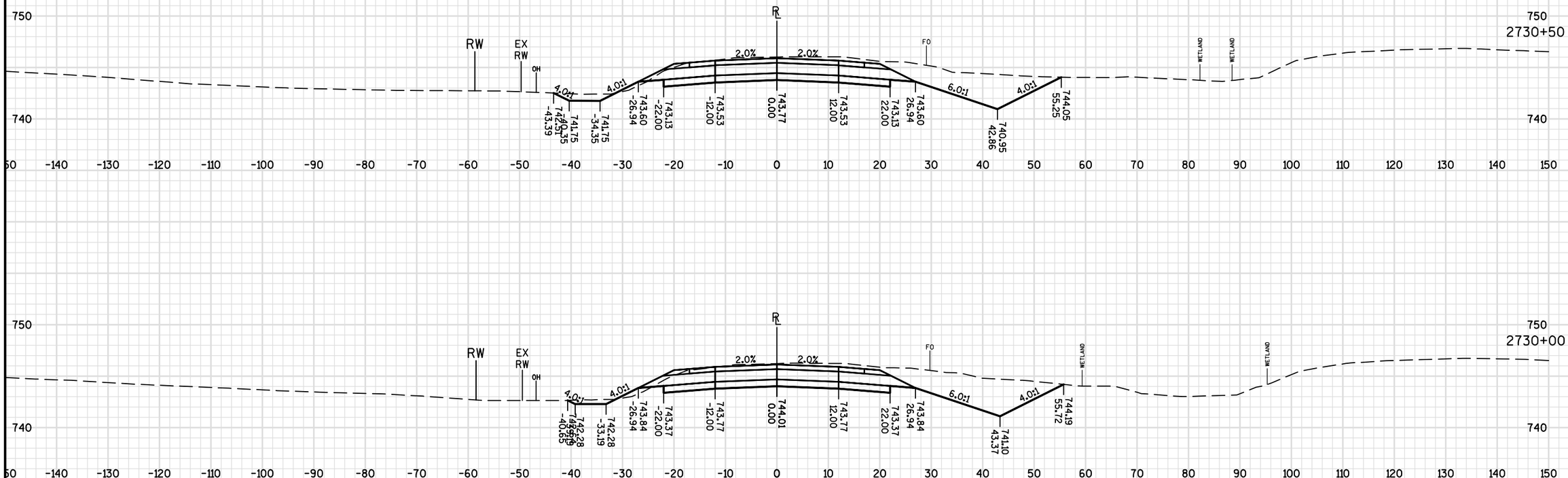
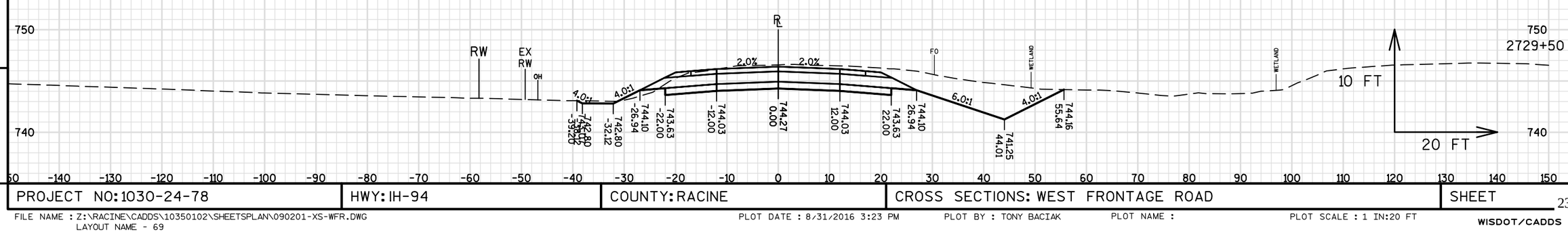
PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 233	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-WFR.DWG
LAYOUT NAME - 68

PLOT DATE : 8/31/2016 3:23 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49





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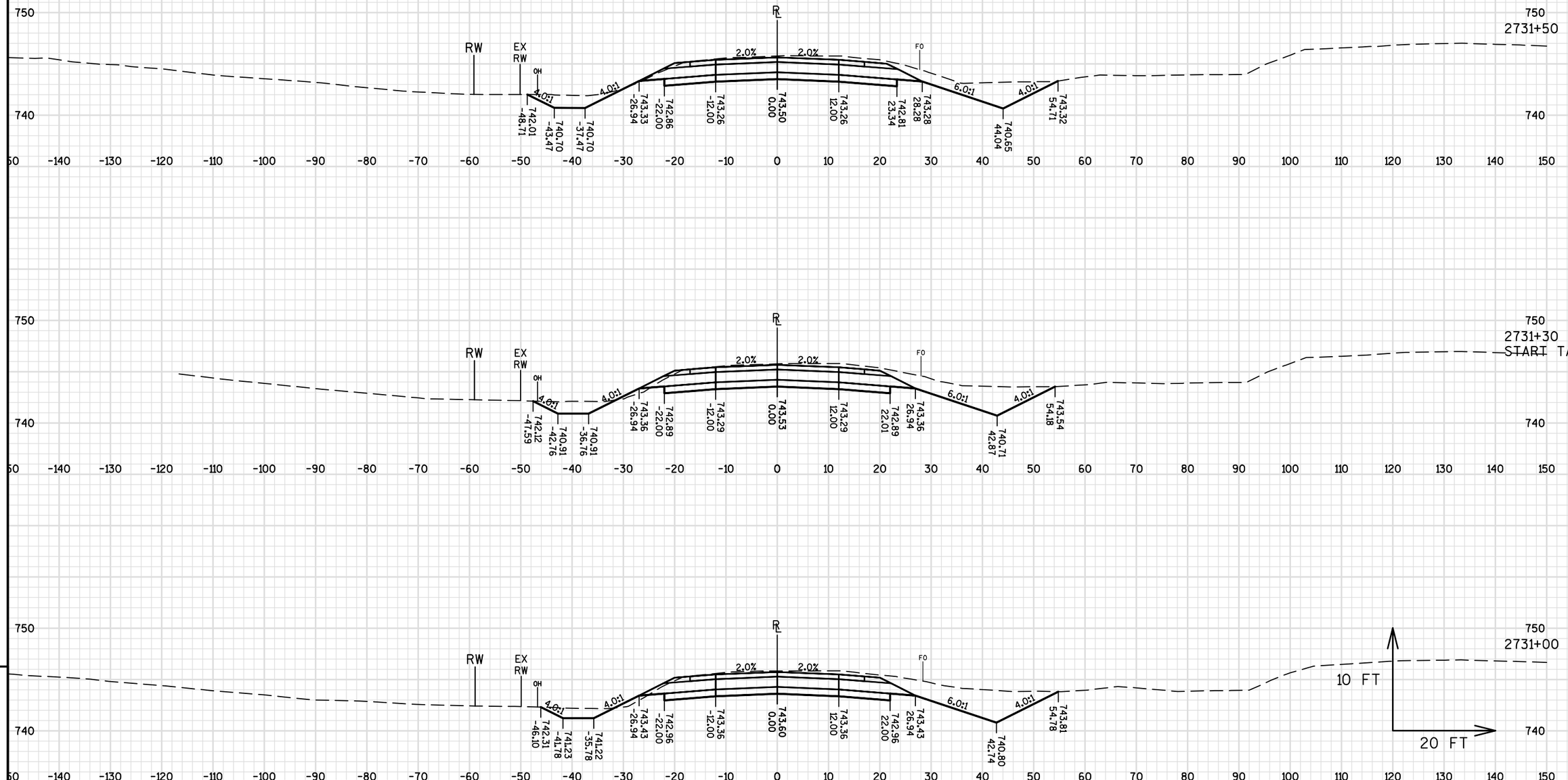
PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 234	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-WFR.DWG
LAYOUT NAME - 69

PLOT DATE : 8/31/2016 3:23 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

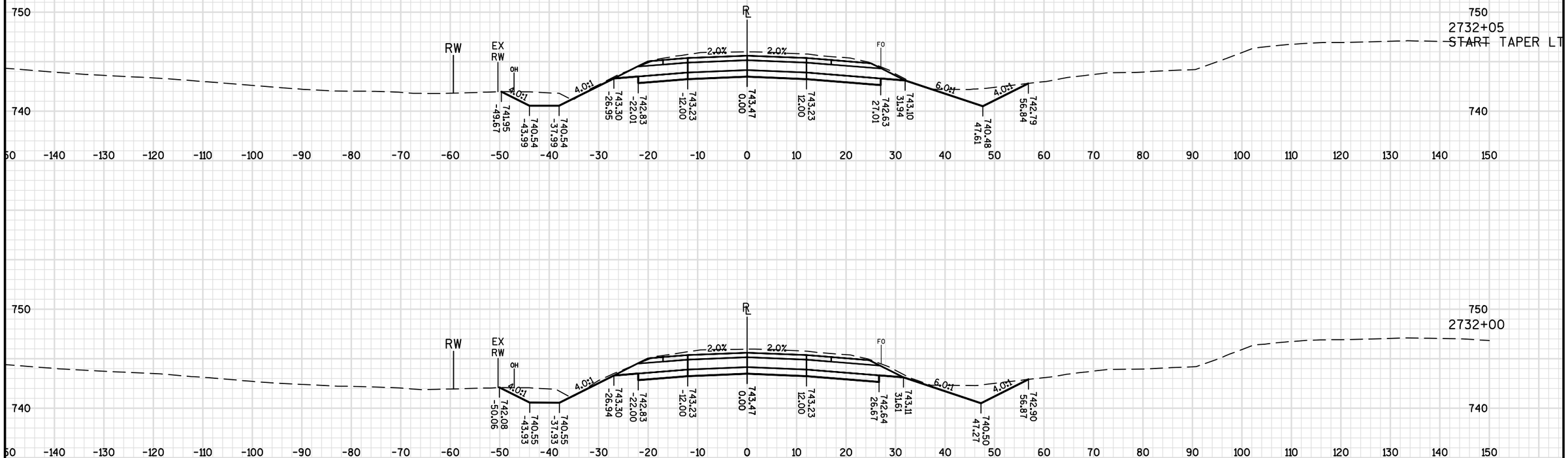


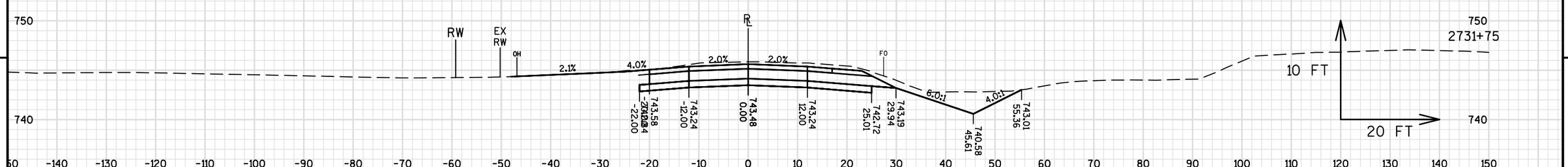
9 9

PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 235 E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-WFR.DWG
LAYOUT NAME - 70

PLOT DATE : 8/31/2016 3:23 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT





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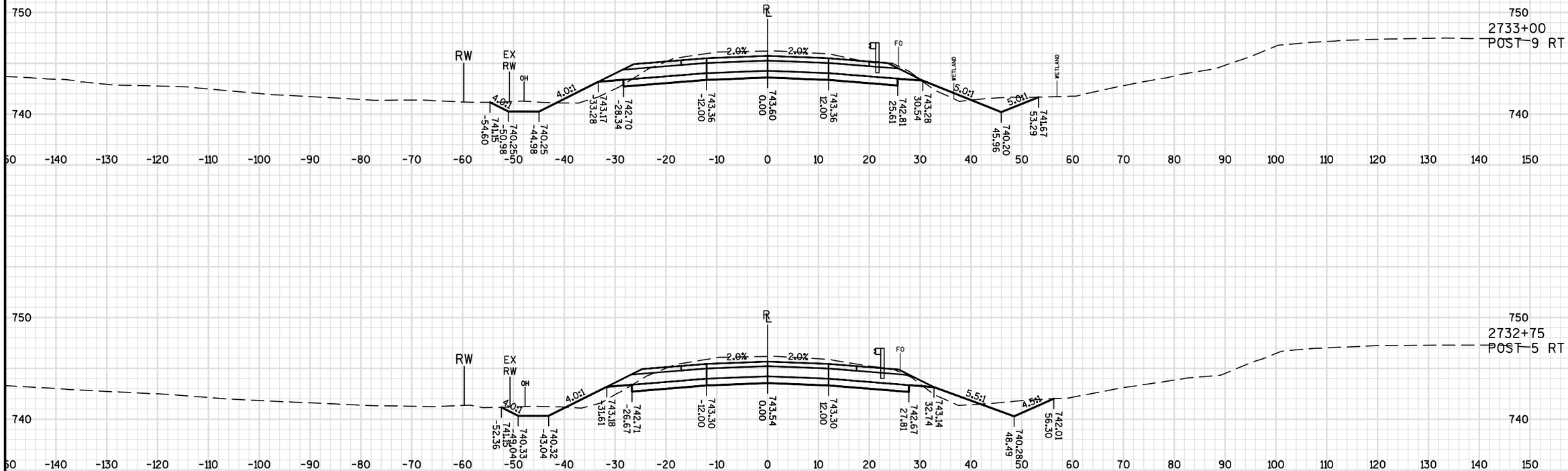
PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 236	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-WFR.DWG
LAYOUT NAME - 71

PLOT DATE : 8/31/2016 3:23 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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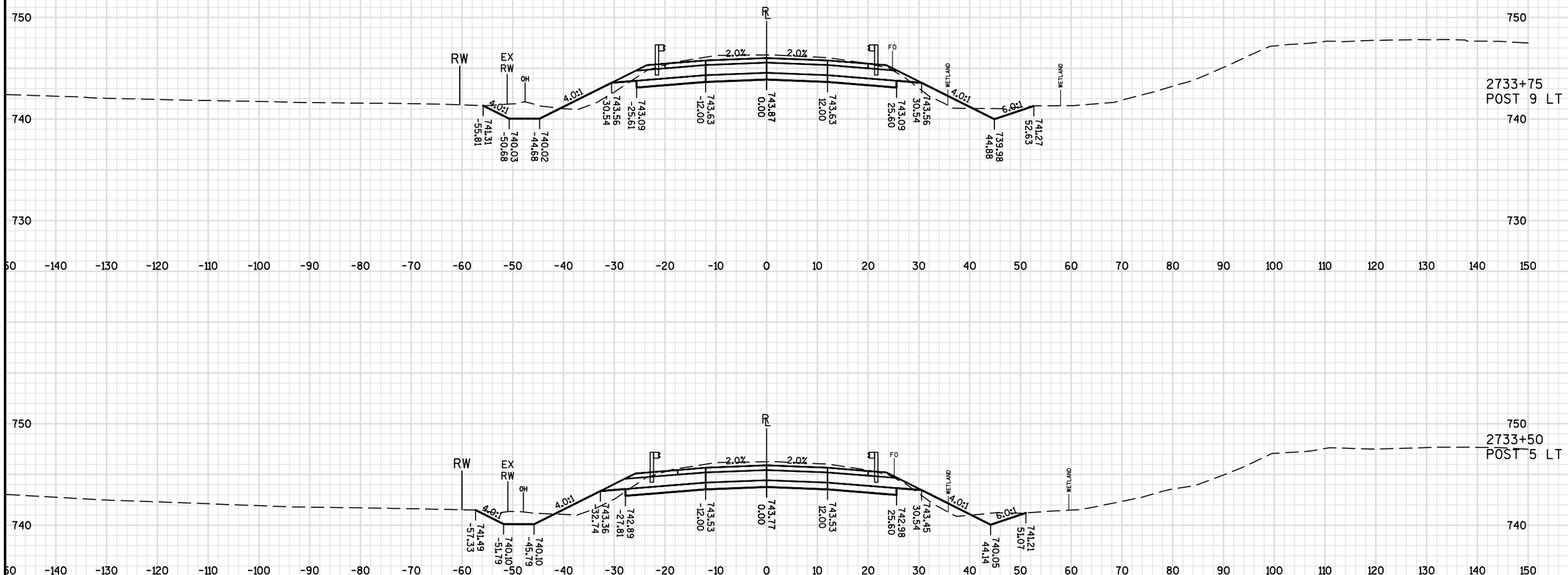
PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 237	E



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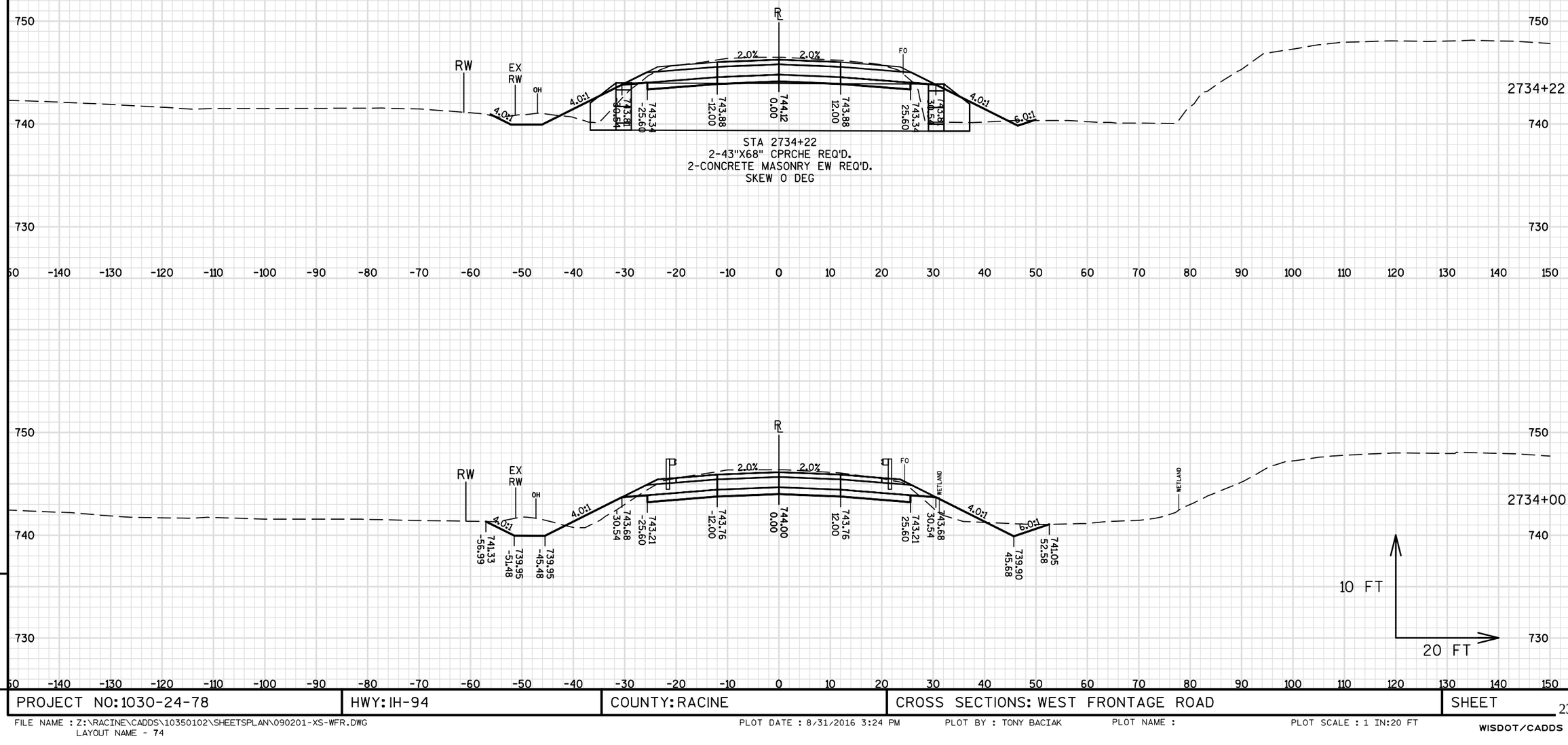
PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 238	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-WFR.DWG
LAYOUT NAME - 73

PLOT DATE : 8/31/2016 3:23 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

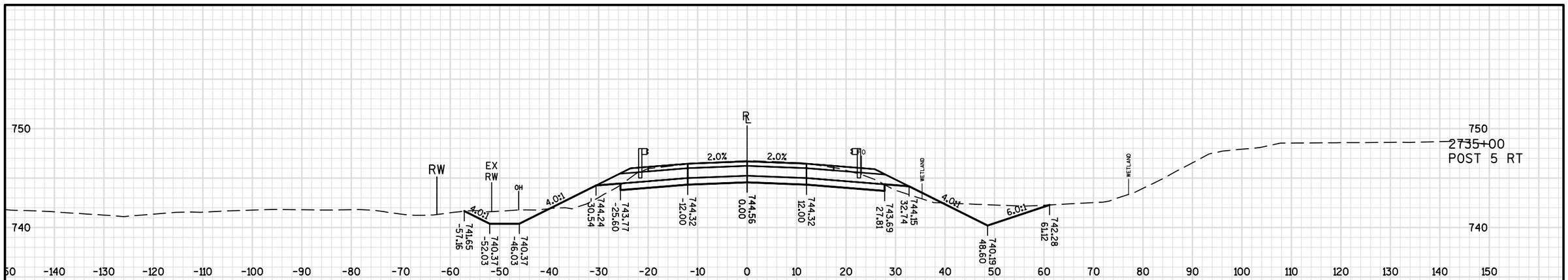


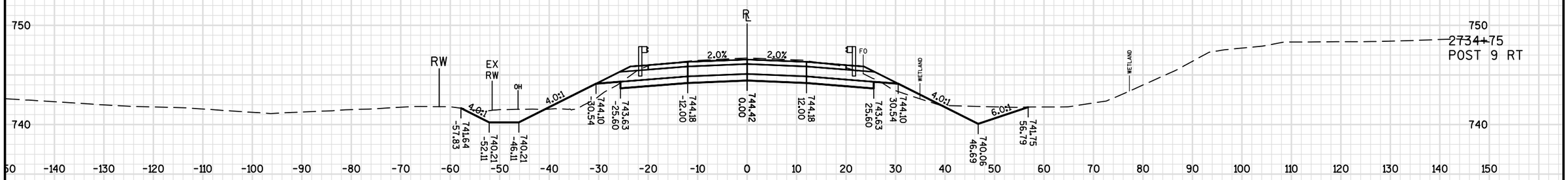
PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 239 E

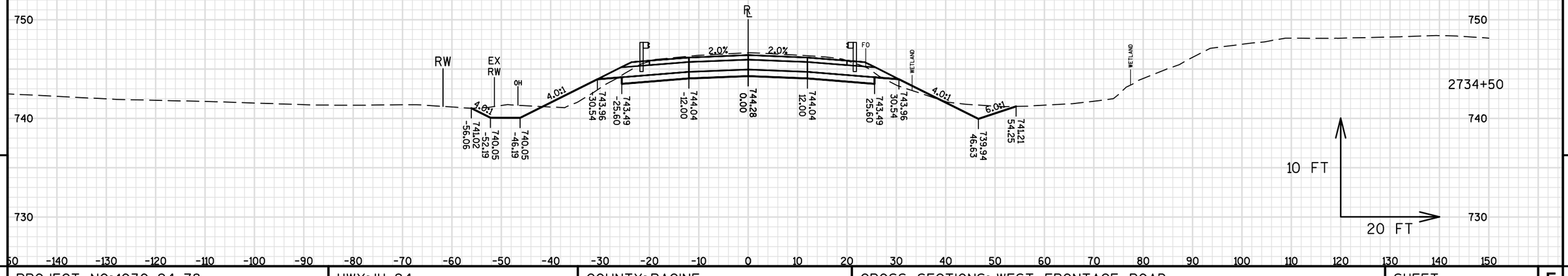
FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-WFR.DWG
LAYOUT NAME - 74

PLOT DATE : 8/31/2016 3:24 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49







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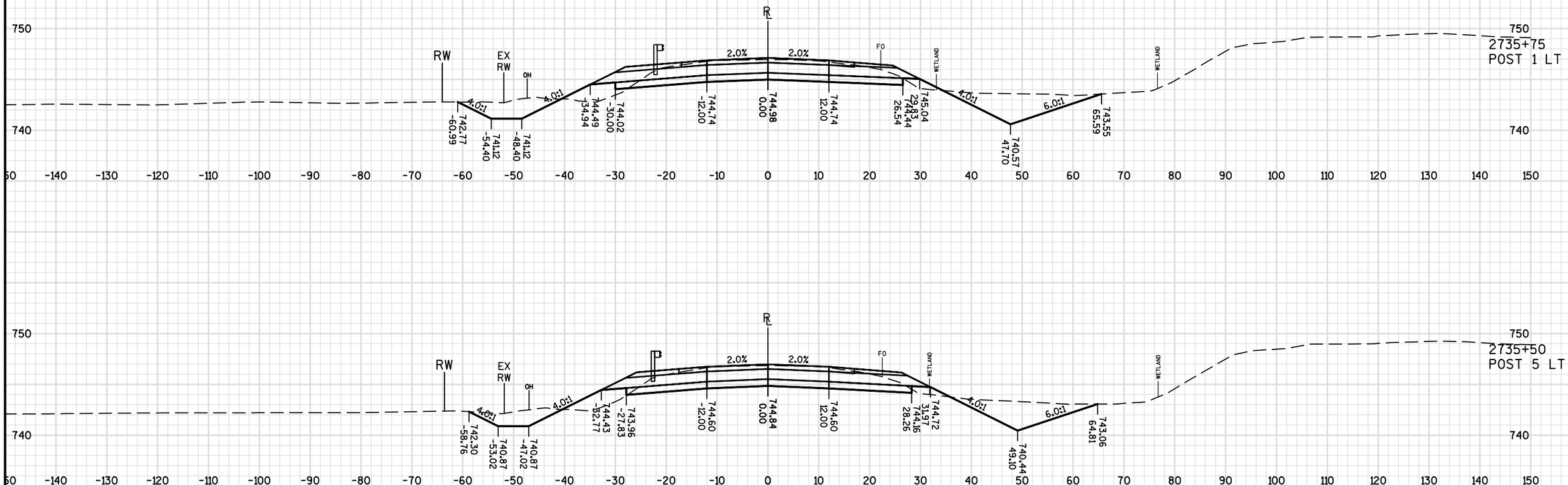
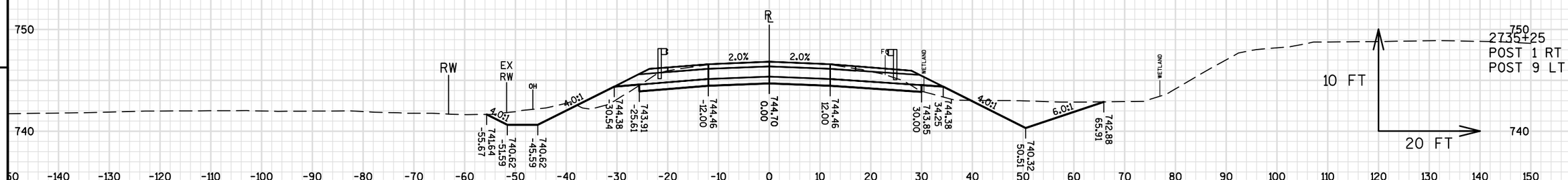
PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 240	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-WFR.DWG
LAYOUT NAME - 75

PLOT DATE : 8/31/2016 3:24 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49





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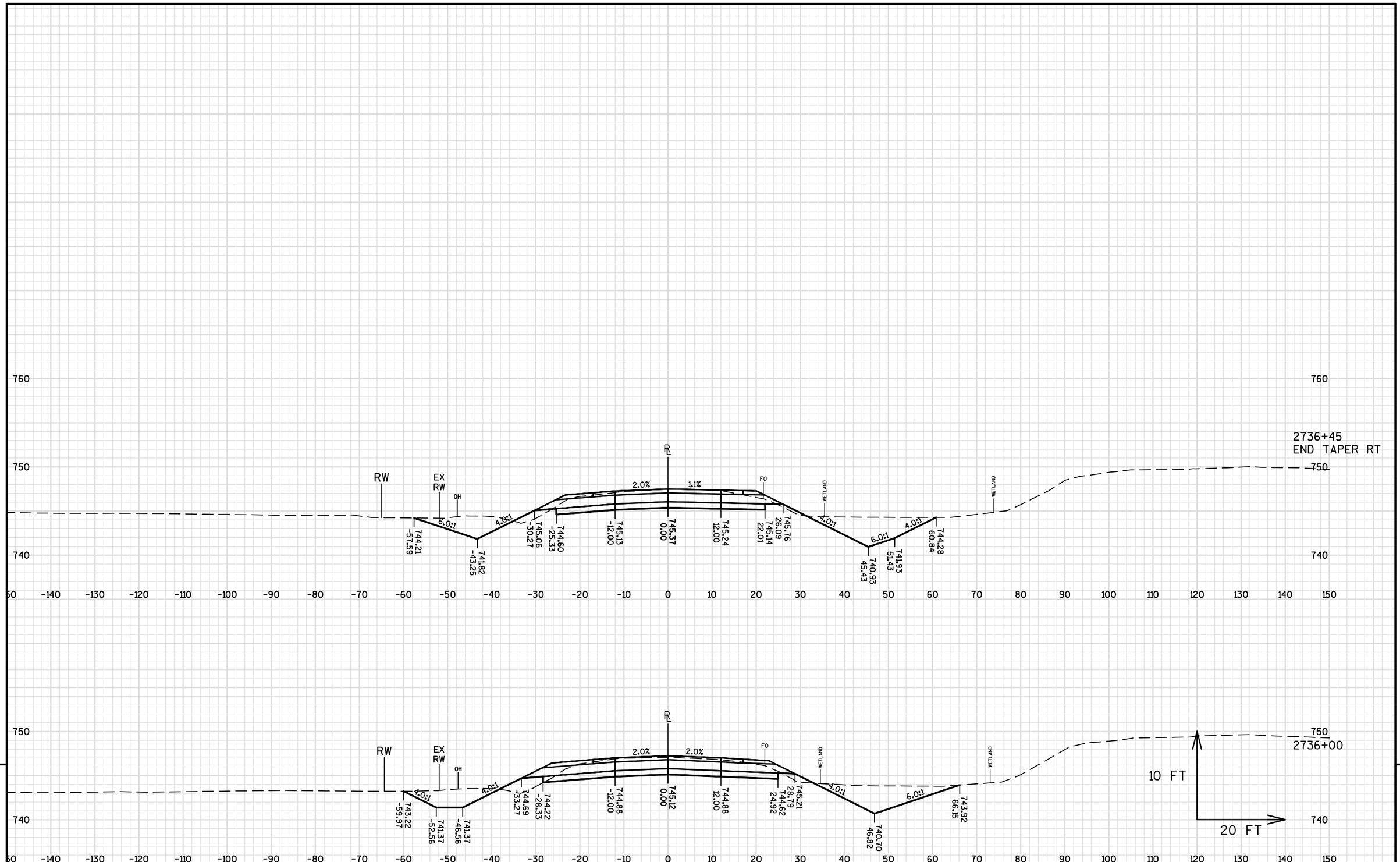
PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 241	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-WFR.DWG
LAYOUT NAME - 76

PLOT DATE : 8/31/2016 3:24 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT



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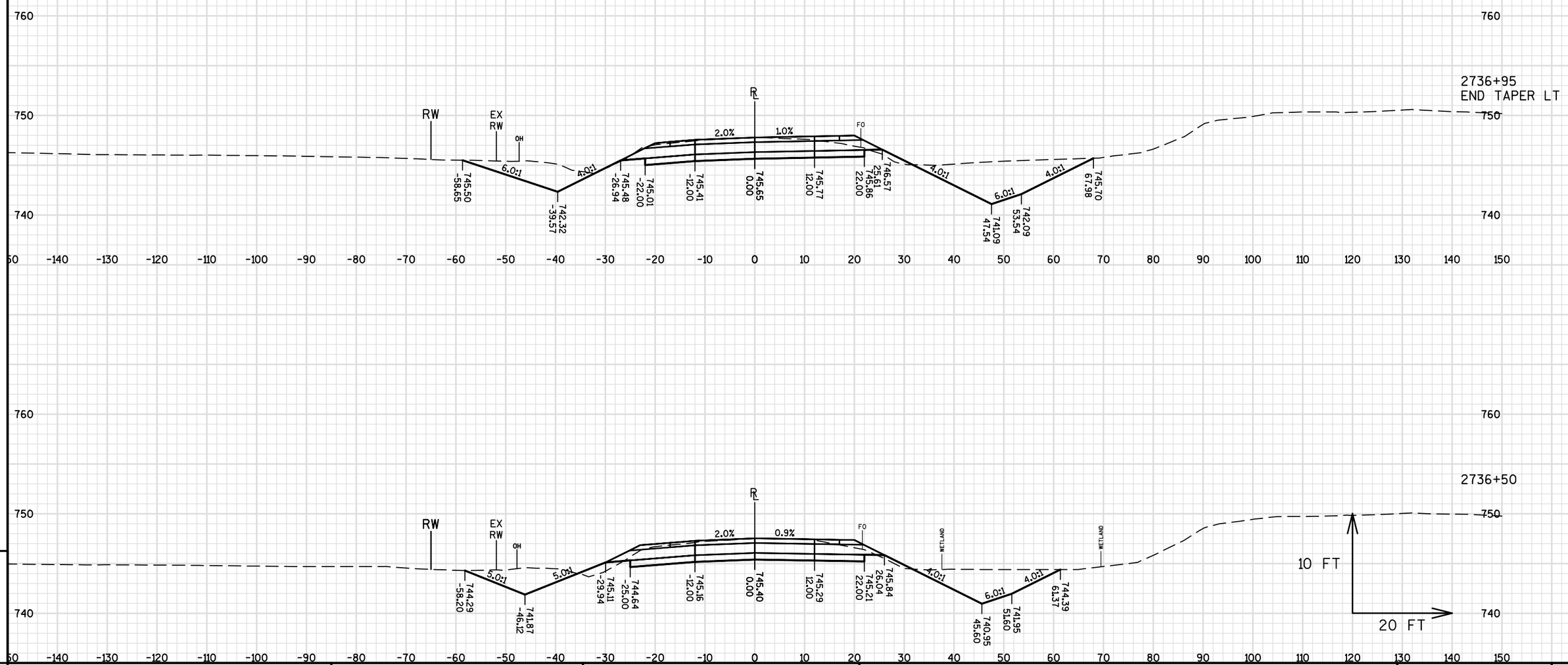
PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 242	E



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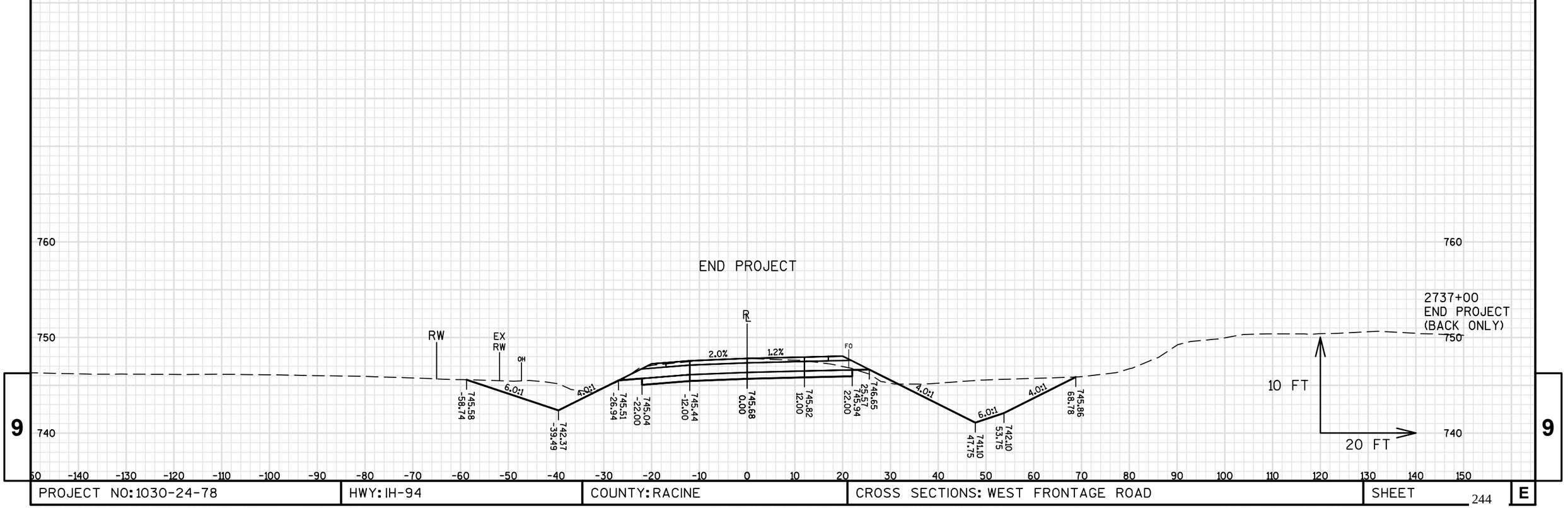
PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET	E

9

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-WFR.DWG
LAYOUT NAME - 78

PLOT DATE : 8/31/2016 3:24 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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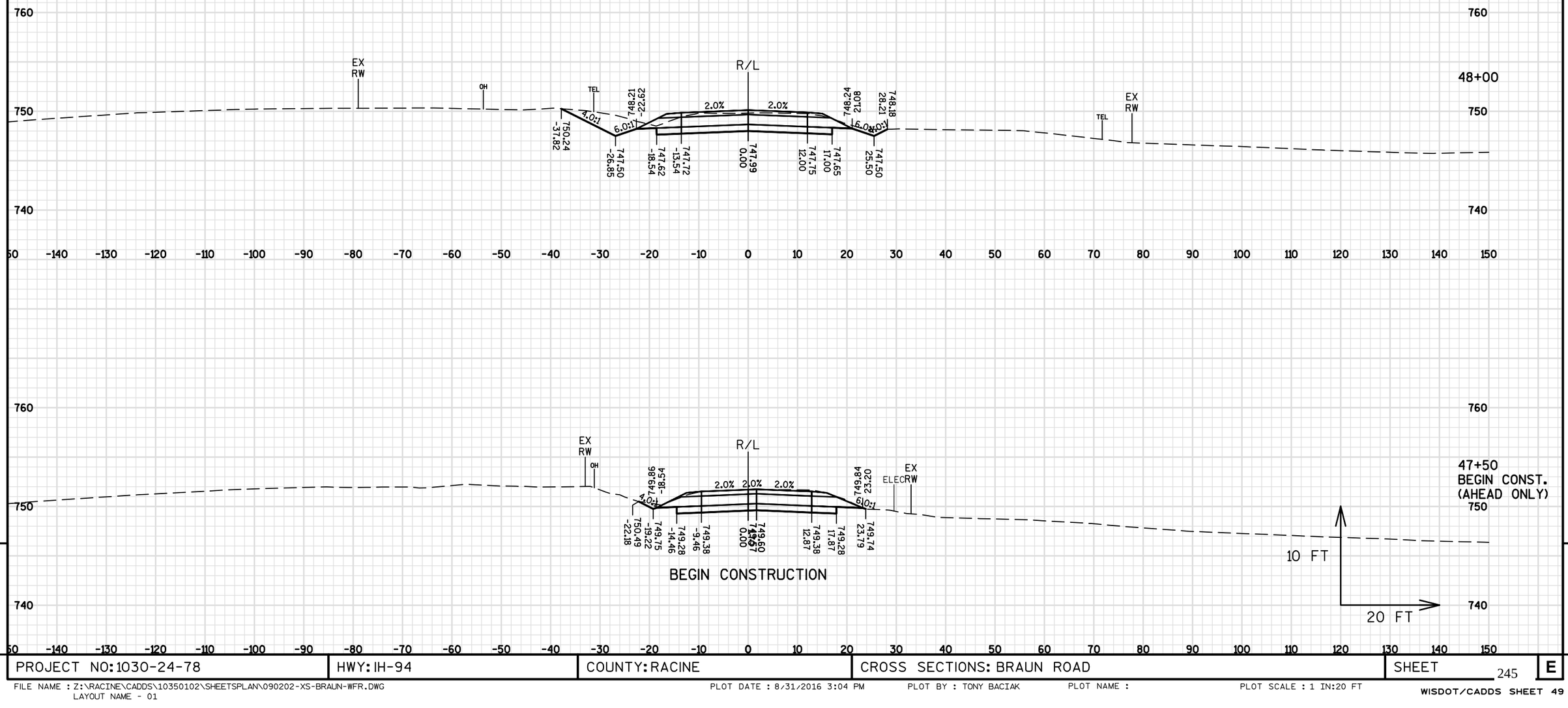
PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 244	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090201-XS-WFR.DWG
LAYOUT NAME - 79

PLOT DATE : 8/31/2016 3:24 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

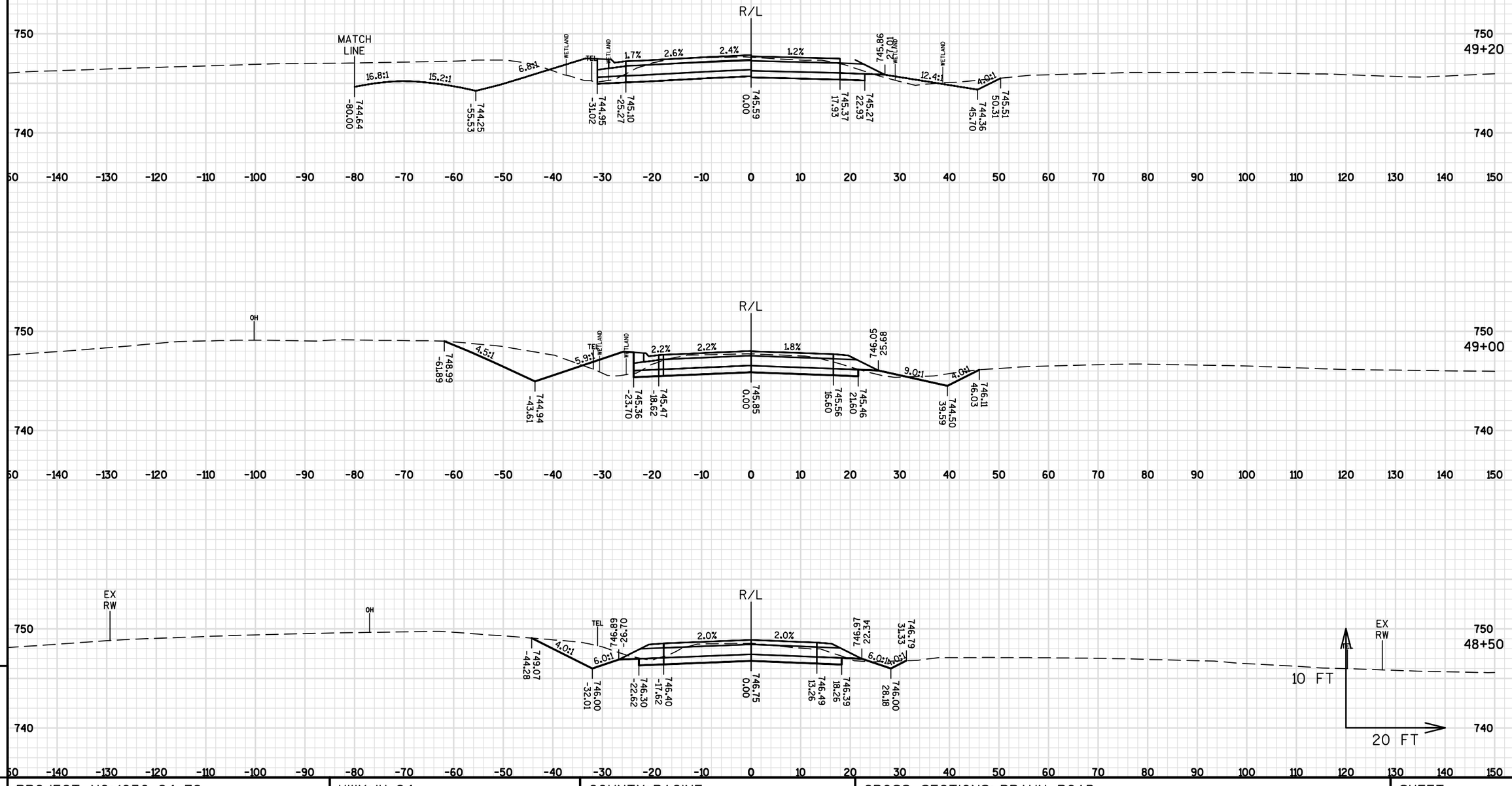


PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD	SHEET 245	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090202-XS-BRAUN-WFR.DWG
LAYOUT NAME - 01

PLOT DATE : 8/31/2016 3:04 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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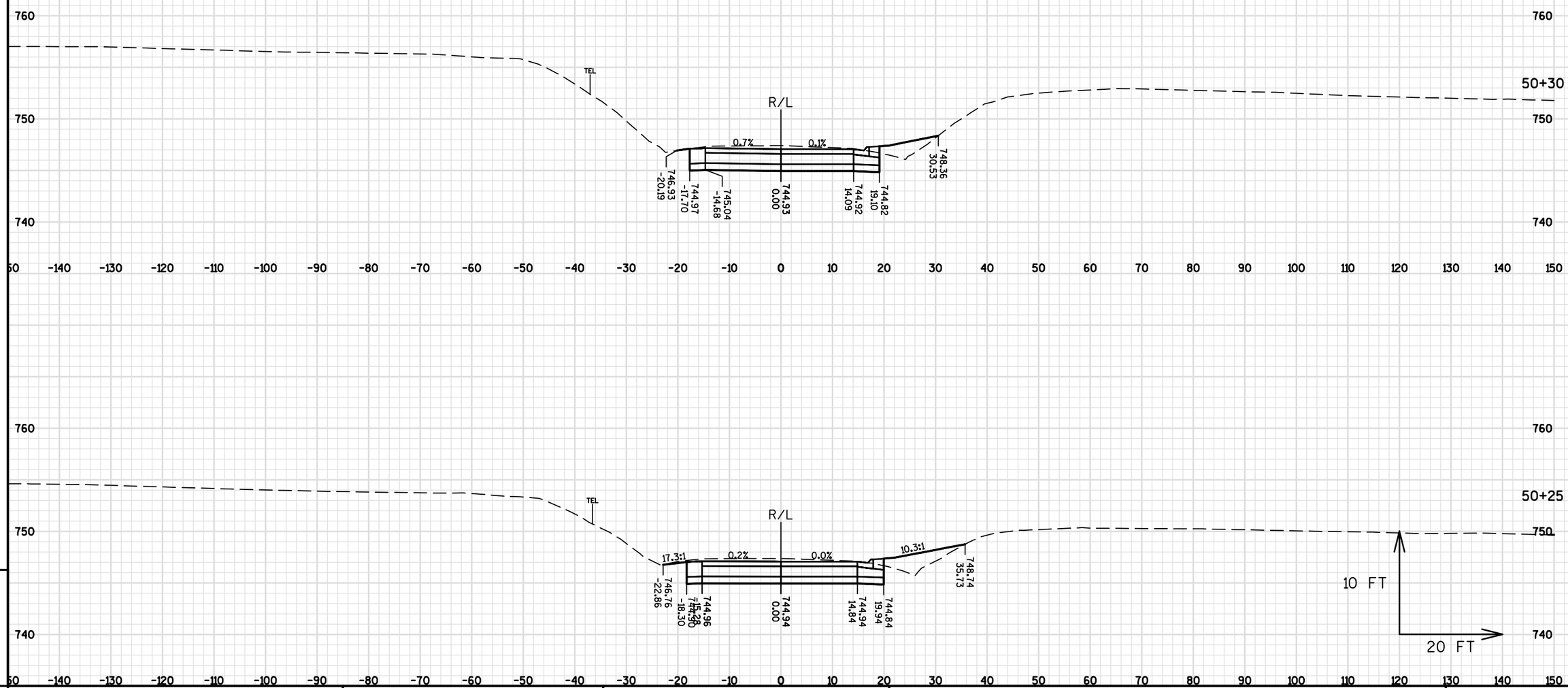
PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD	SHEET	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090202-XS-BRAUN-WFR.DWG
LAYOUT NAME - 02

PLOT DATE : 8/31/2016 3:04 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT



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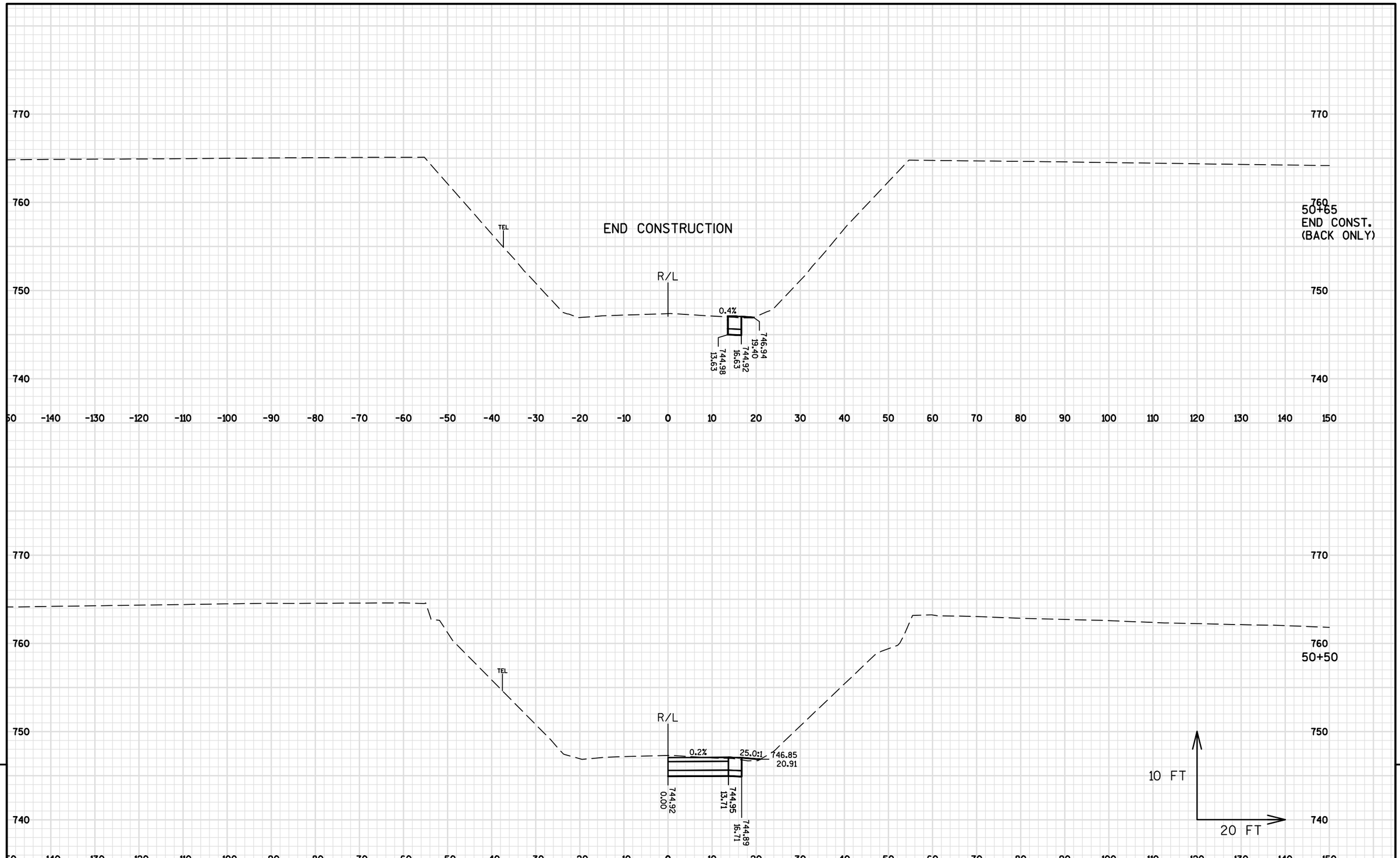
PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD	SHEET 247	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090202-XS-BRAUN-WFR.DWG
LAYOUT NAME - 03

PLOT DATE : 8/31/2016 3:04 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT



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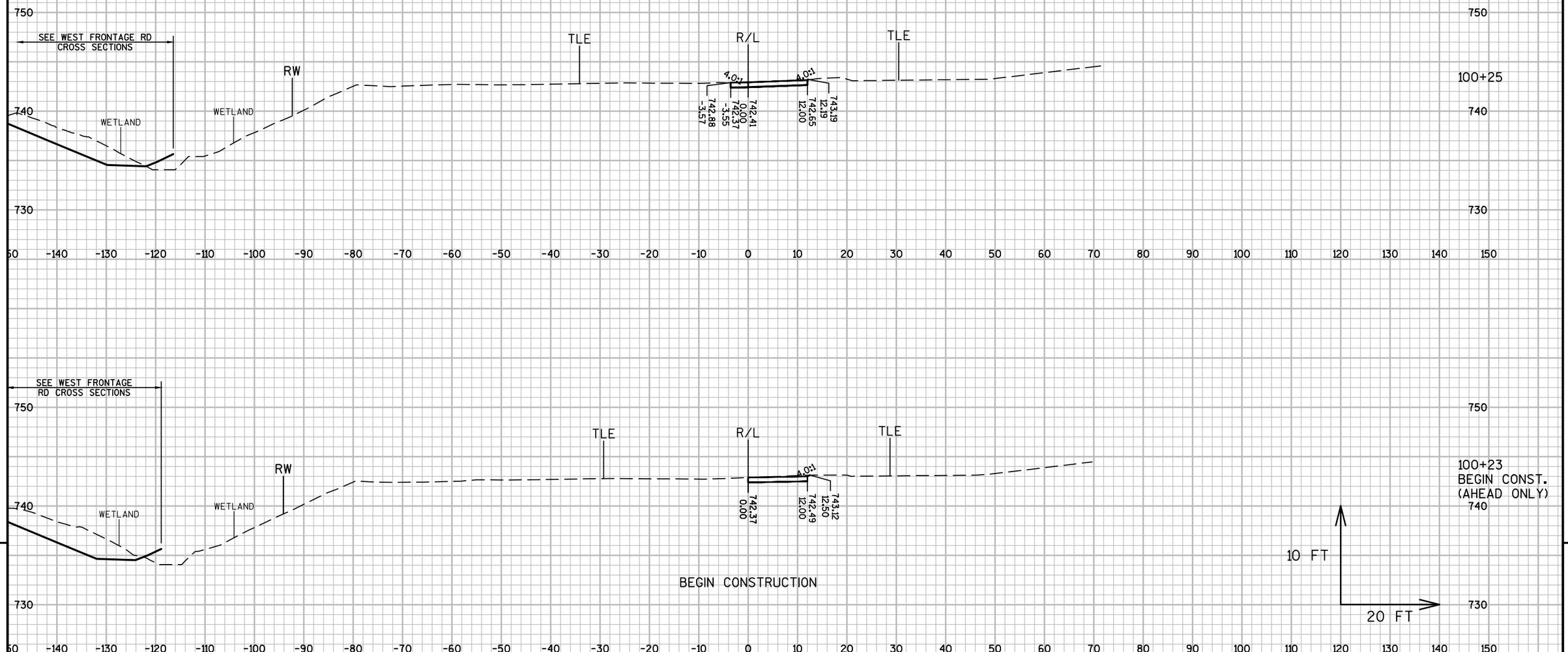
PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD	SHEET 248	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090202-XS-BRAUN-WFR.DWG
LAYOUT NAME - 04

PLOT DATE : 8/31/2016 3:05 PM PLOT BY : TONY BACIAK PLOT NAME : PLOT SCALE : 1 IN:20 FT



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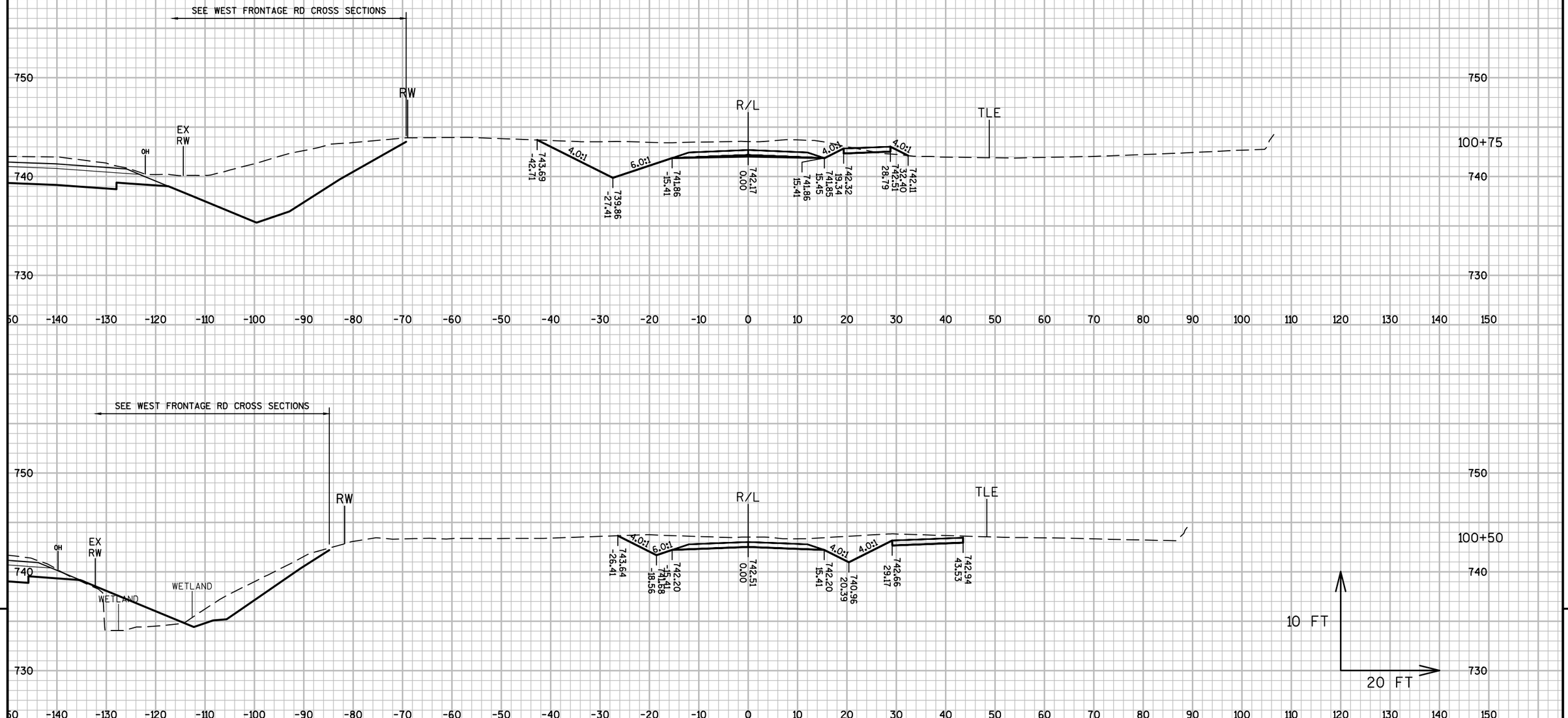
PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: PRIVATE DRIVEWAY W	SHEET 249	E



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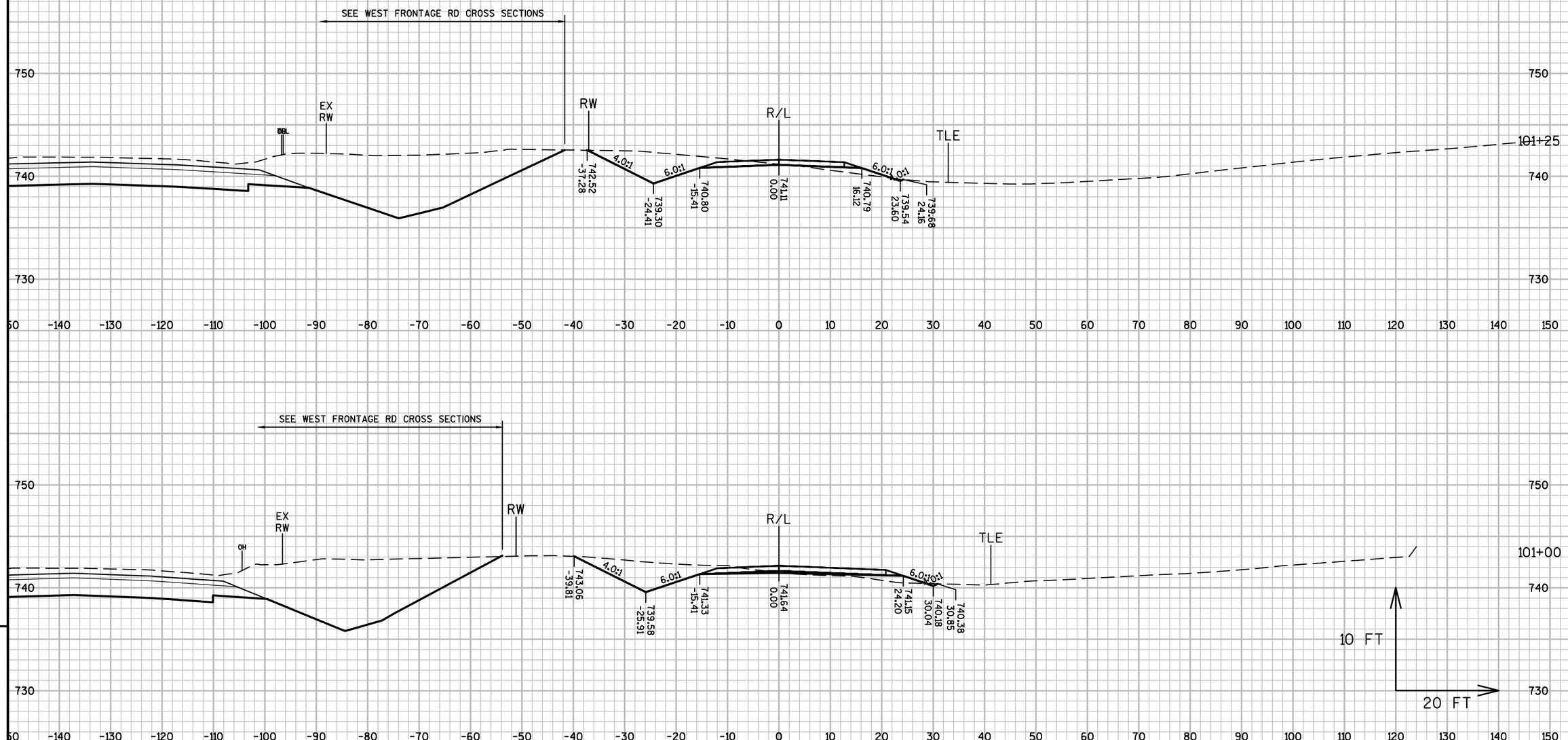
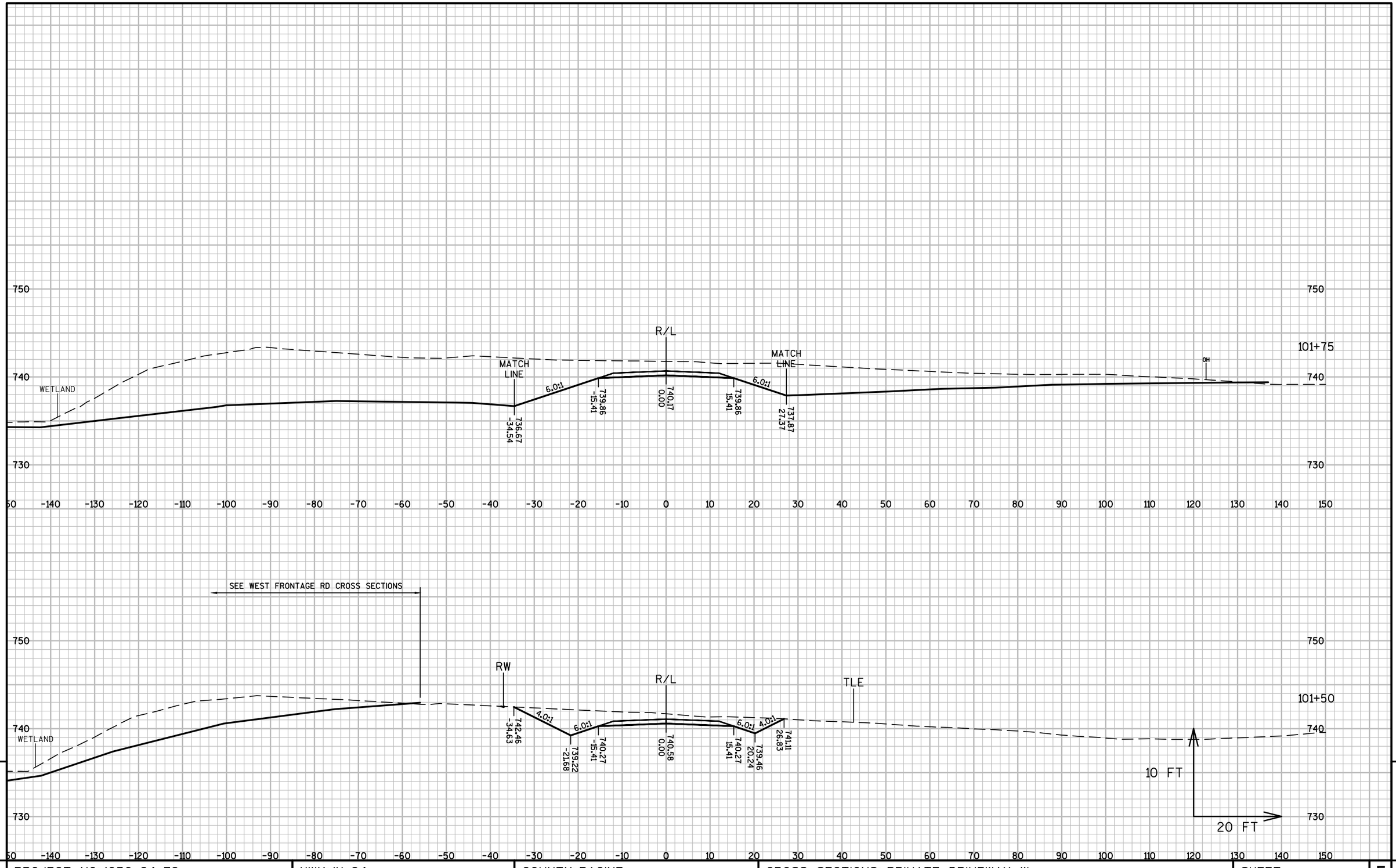
PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: PRIVATE DRIVEWAY W	SHEET 250 E



PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: PRIVATE DRIVEWAY W	SHEET 251	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090203-XS-DWY-WFR.DWG
LAYOUT NAME - 03

PLOT DATE : 8/29/2016 8:25 AM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT



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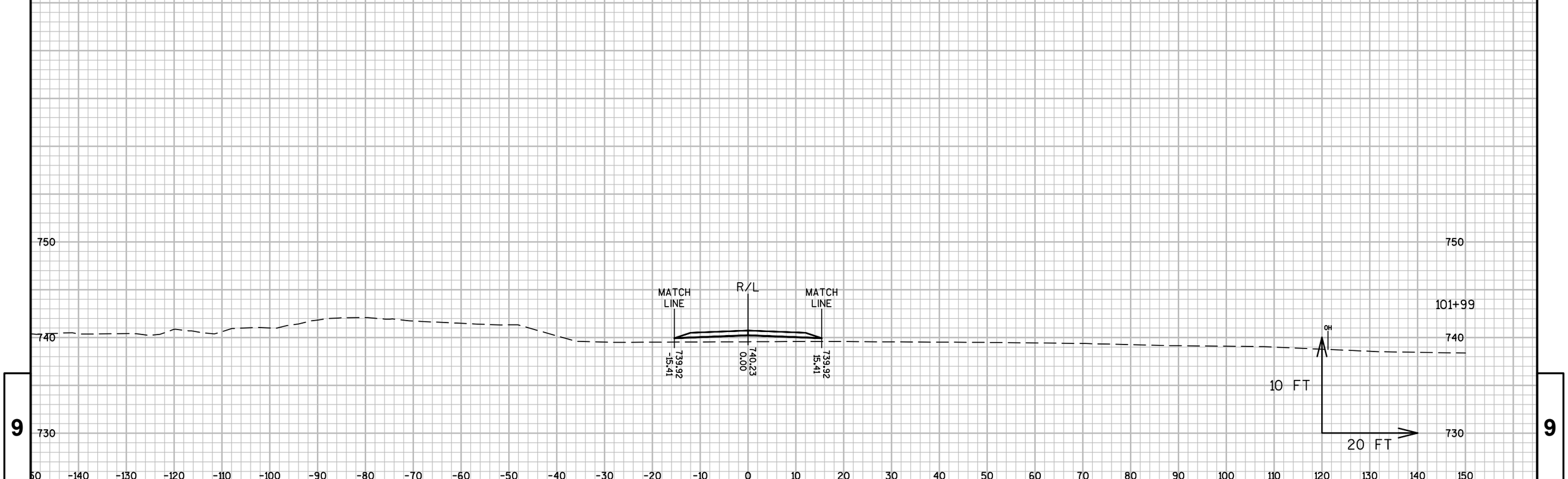
PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: PRIVATE DRIVEWAY W	SHEET	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090203-XS-DWY-WFR.DWG
LAYOUT NAME - 04
PLOT DATE : 8/29/2016 8:25 AM
PLOT BY : CORY IHDE
PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1030-24-78	HWY: IH-94	COUNTY: RACINE	CROSS SECTIONS: PRIVATE DRIVEWAY W	SHEET 253	E

FILE NAME : Z:\RACINE\CADDS\10350102\SHEETSPLAN\090203-XS-DWY-WFR.DWG
LAYOUT NAME - 05

PLOT DATE : 8/29/2016 8:25 AM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:20 FT

Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

http://www.dot.wisconsin.gov

WKE

NOV 2017

PROJECT ID: 1033-02-77
WITH: 1030-24-70/74/77/78, 1033-02-78

COUNTY: RACINE

ORDER OF SHEETS

Section No.	1	Title
Section No.	2	Typical Sections and Details (Includes Erosion Control)
Section No.	3	Estimate of Quantities
Section No.	3	Miscellaneous Quantities
Section No.	4	Right of Way Plat
Section No.	5	Plan and Profile
Section No.	6	Standard Detail Drawings
Section No.	7	Sign Plates
~~Section No.~~	~~8~~	~~Structure Plans~~
Section No.	9	Computer Earthwork Data
Section No.	9	Cross Sections

TOTAL SHEETS = 184

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

N-S FREEWAY STH 11 TO STH 20

EAST FRONTAGE ROAD
IH 94
RACINE COUNTY

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1033-02-77	WISC 2017611	1

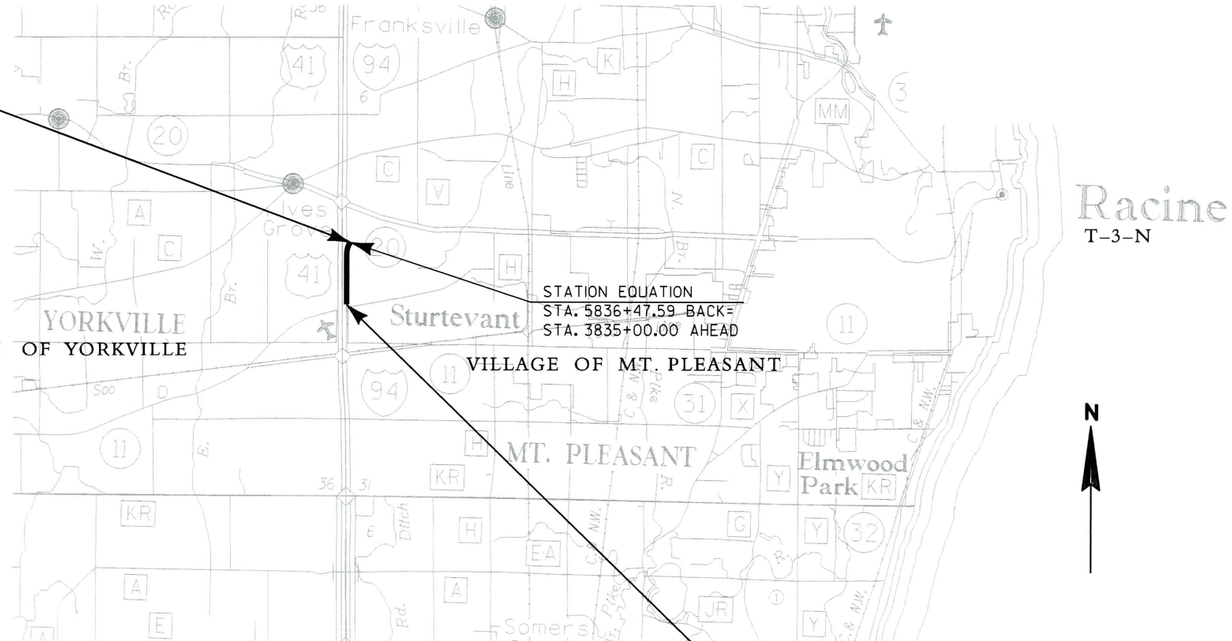
STATE PROJECT NUMBER
1033-02-77

36

DESIGN DESIGNATION — EAST FRONTAGE ROAD

A.A.D.T. 2008	=	1,400
A.A.D.T. 2038	=	2,000
D.H.V.	=	310
D.D.	=	.59 SB/.41 NB
T.	=	9.8%
DESIGN SPEED	=	40 MPH/60 MPH
ESALS	=	1,138,800

END PROJECT 1033-02-77
STA. 5836+47.59



STATION EQUATION
STA. 5836+47.59 BACK =
STA. 3835+00.00 AHEAD

BEGIN PROJECT 1033-02-77
STA. 5791+00.00
Y = 178369.28
X = 594170.22

LAYOUT
SCALE 0 — 1 MI.

TOTAL LENGTH OF CENTERLINE = 0.861 MI.

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (91) (NAVD88 (91))

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), RACINE COUNTY, NAD 1983 (97)

CONVENTIONAL SYMBOLS

PLAN
- CORPORATE LIMITS
- PROPERTY LINE
- LOT LINE
- LIMITED HIGHWAY EASEMENT
- EXISTING RIGHT OF WAY
- PROPOSED OR NEW R/W LINE
- SLOPE INTERCEPT
- REFERENCE LINE
- EXISTING CULVERT
- PROPOSED CULVERT (Box or Pipe)
- COMBUSTIBLE FLUIDS (CAUTION)
- MARSH AREA
- WOODED OR SHRUB AREA

PROFILE
- GRADE LINE
- ORIGINAL GROUND
- MARSH OR ROCK PROFILE (To be noted as such) — ROCK
- SPECIAL DITCH — LABEL
- GRADE ELEVATION — 95.36
- CULVERT (Profile View)

UTILITIES
- ELECTRIC — E
- FIBER OPTIC — FO
- GAS — G
- SANITARY SEWER — SAN
- STORM SEWER — SS
- TELEPHONE — T
- WATER — W
- UTILITY PEDESTAL
- POWER POLE
- TELEPHONE POLE

ORIGINAL PLANS PREPARED BY

emcs inc
1300 W. Canal Street, Suite 200
Milwaukee, WI 53233
414.347.1607 Fax 414.347.1347

WISCONSIN — BRIAN J. WILSON E-34330-6 MILWAUKEE WI — PROFESSIONAL ENGINEER

7/31/2017 (Date) Brian J. Wilson (Signature)

ORIGINAL PLANS PREPARED BY

DAAR ENGINEERING, INC.
www.daarengineering.com
Milwaukee, WI 53212
414-225-9817

WISCONSIN — ANDREW J. SMIEJA E-31137 WAUKESHA, WI — PROFESSIONAL ENGINEER

8/1/17 (Date) (Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	WISDOT/EMCS
Designer	EMCS/DAAR
Project Manager	FRANK PRITZLAFF
Regional Examiner	
Regional Supervisor	WAFA ELQAQ

APPROVED FOR THE DEPARTMENT
DATE: 8/1/17 (Signature)

E

UTILITY CONTACTS

AT&T WISCONSIN
MR. MARK EDER
2005 PEWAUKEE RD
WAUKESHA, WI 53188
PHONE: (262) 896-7434
me1754@att.com

CHARTER COMMUNICATIONS
MR. STEVE CRAMER
1320 N. MARTIN LUTHER KING JR. DRIVE
MILWAUKEE, WI 53212
PHONE: (414) 277-4045
CELL: (414) 688-2385
steve.cramer@charter.com
wis.engineering@charter.com

MOUNT PLEASANT SEWER UTILITY DISTRICT NO. 1
MR. ANTHONY BEYER
6126 DURAND AVE
RACINE, WI 53406
PHONE: (262) 664-7849
tbeyer@mtpleasantwi.gov

RACINE WATER AND WASTEWATER UTILITY
MR. CHAD REGALIA
800 CENTER STREET, ROOM 227
RACINE, WI 53403
PHONE: (262) 497-4611
chad.regalia@cityofracine.org

WE ENERGIES - ELECTRIC
SEND ALL CORRESPONDENCE TO:
MR. LATROY BRUMFIELD
333 W. EVERETT STREET - A299
MILWAUKEE, WI 53203
PHONE: (414) 221-5617
latroy.brumfield@we-energies.com

CONSTRUCTION FIELD CONTACT:
MR. DAN TOOMEY
500 S. 116TH STREET
WEST ALLIS, WI 53214
PHONE: (414) 944-5695
dan.toomey@we-energies.com

WE ENERGIES - GAS
SEND ALL CORRESPONDENCE TO:
MR. LATROY BRUMFIELD
333 W. EVERETT STREET - A299
MILWAUKEE, WI 53203
PHONE: (414) 221-5617
latroy.brumfield@we-energies.com

CONSTRUCTION FIELD CONTACT:
MR. DAN TOOMEY
500 S. 116TH STREET
WEST ALLIS, WI 53214
PHONE: (414) 944-5695
dan.toomey@we-energies.com

WISDOT STOC
MR. JEFFREY MADSON
433 W ST. PAUL AVE, SUITE 300
MILWAUKEE, WI 53203
PHONE: (414) 225-3723
jeffrey.madson@dot.wi.gov

TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN

WIS. STATUTE 182.0175 (1974) REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE.

DIGGERS HOTLINE

Call 811 3 Work Days Before You Dig
or Toll Free (800) 242-8511
Hearing Impaired TDD (800) 542-2289
www.DiggersHotline.com

ORDER OF SECTION 2 DETAIL SHEETS

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
REMOVAL PLAN
PLAN DETAILS
EROSION CONTROL
STORM SEWER
EXISTING AND PERMANENT SIGNING
PAVEMENT MARKING
TRAFFIC CONTROL
FENCING PLAN
ALIGNMENT PLAN

STATE AGENCIES

WISCONSIN DEPARTMENT OF TRANSPORTATION
MS. LACI KAZAN - ENVIRONMENTAL ANALYST AND REVIEW SPECIALIST
141 NW BARSTOW STREET
WAUKESHA, WI 53187-0798
CELL: (414) 322-1429
laci.kazan@dot.wi.gov

WISCONSIN DEPARTMENT OF TRANSPORTATION
MR. GREG BERRY - UTILITY COORDINATOR
141 NW BARSTOW STREET
WAUKESHA, WI 53187-0798
CELL: (414) 750-7828
gregory.berry@dot.wi.gov

WISCONSIN DEPARTMENT OF NATURAL RESOURCES
KRISTINA BETZOLD
DNR SOUTHEAST REGION HQ
2300 N. DR. MARTIN LUTHER KING JR. DR.
MILWAUKEE, WI 53212
PHONE: (414) 263-8517
kristina.betzold@wisconsin.gov

WISCONSIN DEPARTMENT OF TRANSPORTATION
MR. FRANK PRITZLAFF - PROJECT MANAGER
141 NW BARSTOW STREET
WAUKESHA, WI 53187-0798
PHONE: (262) 548-5683
frank.pritzlaff@dot.wi.gov

SOUTHEASTERN WISCONSIN REGIONAL PLANNING COMMISSION
MR. JOHN WASHBURN
W239 N1812 ROCKWOOD DRIVE
P.O. BOX 1607
WAUKESHA, WI 53187-1607
PHONE: (262) 953-4295
CELL: (414) 218-2866
jwashburn@sewrpc.org

OTHER AGENCIES

VILLAGE OF MOUNT PLEASANT
MR. MARK BENISH
8700 CAMPUS DRIVE
MOUNT PLEASANT, WI 53406
PHONE: (262) 664-7844
mbenish@mtpleasantwi.gov

SYLVANIA AIRPORT
AERIS AVIATION, LLC.
2624 SOUTH SYLVANIA AVENUE
STURTEVANT, WI 53177
PHONE: (888) 882-3747
fly@aerosaviation.com

RACINE COUNTY DPW
MR. NATHAN PLUNKETT
14200 WASHINGTON AVE
STURTEVANT, WI 53177
PHONE: (262) 886-8442
nathan.plunkett@racinecounty.com

TOWN OF YORKVILLE
MR. MICHAEL MCKINNEY
925 15TH AVENUE
UNION GROVE, WI 53182
PHONE: (262) 878-2123
michael@townofyorkville.com

GENERAL NOTES

NO TREES OR SHRUBS SHALL BE REMOVED WITHOUT APPROVAL OF THE ENGINEER.

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE AND AFFECTED UTILITIES PRIOR TO THE START OF WORK. ANY LOCAL MUNICIPAL UTILITY WHICH IS NOT A MEMBER OF THE DIGGERS HOTLINE MUST BE CONTACTED SEPARATELY.

ALL HOLES OR OPENINGS RESULTING FROM ABANDONMENT OR REMOVAL OF EXISTING STRUCTURES SHALL BE FILLED WITH GRANULAR BACKFILL.

WHEN THE QUANTITY OF HMA OR BASE AGGREGATE IS MEASURED FOR PAYMENT BY THE TON, THE DEPTH OR THICKNESS OF THE LAYER SHOWN ON THE PLAN IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.

INLET AND DISCHARGE ELEVATIONS FOR DRAINAGE STRUCTURES SHOWN ON THE PLAN MAY BE ADJUSTED BY THE ENGINEER TO FIT FIELD CONDITIONS.

CURB HEIGHTS AT THE END OF CURB AND GUTTER SHALL BE TAPERED FROM 0 TO 4 INCHES OR 0 TO 6 INCHES IN 6 FEET, PER CONSTRUCTION DETAIL.

CURB AND GUTTER GRADES ARE GIVEN TO THE FLANGE. CURB AND GUTTER RADII ARE MEASURED TO THE FLANGE.

EXISTING DRIVEWAYS AND FIELD ENTRANCES SHALL BE RESTORED IN KIND AS DIRECTED BY THE ENGINEER IN THE FIELD AND AT THE LOCATION DETERMINED BY THE ENGINEER.

BROKEN CONCRETE CONTAINING RE-BAR SHALL NOT BE USED AS RIPRAP.

CROSS SECTIONS SHOWN INCLUDE THE THICKNESS OF TOPSOIL WHERE REQUIRED. TOPSOIL SHALL BE REPLACED WITH 4-INCH TYPICAL DEPTH.

TRAFFIC CONTROL DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

USE EROSION MAT URBAN CLASS ITYPE B ADJACENT TO DISTURBED AREAS NEXT TO WETLANDS. DO NOT INSTALL EROSION MAT URBAN CLASS ITYPE B IN WATER.

ALL ENCROACHMENTS SHOWN IN THE PLAN ARE TO BE REMOVED BY THE PROPERTY OWNER PRIOR TO CONSTRUCTION, UNLESS OTHERWISE NOTED.

THE LOCATIONS OF SELECT SUBBASE AND GEOGRID TYPE SR ARE DEPENDENT ON FIELD CONDITIONS DURING GRADING OPERATIONS. GEOGRID REINFORCEMENT AND FILL MATERIAL SHALL NOT BE PLACED UNTIL AUTHORIZED BY THE ENGINEER OR SOILS ENGINEER.

PRIOR TO ORDERING DRAINAGE PIPES AND STRUCTURES, THE CONTRACTOR SHALL VERIFY RELATED DRAINAGE INFORMATION IN THE PLANS AND PROVIDE DOCUMENTATION TO ENGINEER IN ACCORDANCE WITH THE SPECIFICATIONS.

CONTRACTOR MUST CONTACT THE PROJECT ENGINEER AND THE RACINE COUNTY SURVEYOR, JOHN WASHBURN, AND RACINE COUNTY PUBLIC WORKS DIRECTOR, JULIE ANDERSON, AT LEAST TWO WEEKS PRIOR TO WORK NEAR ANY PUBLIC SURVEY MONUMENT.

FERTILIZER SHALL NOT BE USED WITHIN 20 FEET OF NAVIGABLE WATERWAYS OR WETLANDS.

ASPHALTIC AND CONCRETE SURFACES INCLUDING DRIVEWAYS AND/OR PARKING LOTS SHALL BE SAWCUT AT THE MATCHLINE AS SHOWN ON THE PLAN DETAILS OR AS DIRECTED BY THE ENGINEER.

STATIONING, DISTANCES AND OFFSETS FOR SIGNS SHOWN ON THE PLANS ARE APPROXIMATE AND THE LOCATIONS OF SIGNS ARE TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

LOCATIONS OF DRAINTILE ON THE PLAN ARE BASED ON AS-BUILT OR PROPERTY OWNER INTERVIEWS. DRAINTILE EXPLORATION ITEM IS TO BE USED TO VERIFY THE EXACT SIZE AND LOCATION.

ADDRESS NUMBER SIGNS WILL BE RELOCATED BY LOCAL MUNICIPALITIES. CONTACT MUNICIPALITY TWO WEEKS PRIOR TO BEGINNING WORK WHICH MAY DISTURB ADDRESS NUMBER SIGNS.

A CONVERSION FACTOR OF 2.0 TONS/CY IS USED TO ESTIMATE QUANTITIES FOR BASE AGGREGATE DENSE.

A CONVERSION FACTOR OF 1.7 TONS/CY IS USED TO ESTIMATE QUANTITIES FOR BREAKER RUN.

A CONVERSION FACTOR OF 1.9 TONS/CY IS USED TO ESTIMATE QUANTITIES FOR SELECT CRUSHED MATERIAL.

A CONVERSION FACTOR OF 115 LBS/IN/SY IS USED TO ESTIMATE QUANTITIES FOR HMA PAVEMENT.

FOR SECTION CORNER REPLACEMENT CONTACT JOHN WASHBURN WITH SEWRPC AT 414-218-2866 OR JWASHBURN@SEWRPC.ORG. CONTACT SHALL BE MADE A MINIMUM OF TWO WEEKS BEFORE STARTING CONSTRUCTION OPERATIONS.

ALL TYPES OF HMA PAVEMENT SHALL BE CONSTRUCTED WITH THE FOLLOWING LAYERS AND GRADATIONS:

	PAVEMENT TYPE	TOTAL LAYER PAVEMENT THICKNESS	LAYERS
(AP03)	4 LT 58-28 S 3 LT 58-28 S	5½"	2¼" UPPER LAYER 3¼" LOWER LAYER
(AP04)	5 HT 58-28 H 3 HT 58-28 H	5"	2" UPPER LAYER 3" LOWER LAYER

STANDARD ABBREVIATIONS

AECPRC	APRON ENDWALL CULVERT PIPE REINFORCED CONCRETE
AECPRCHE	APRON ENDWALL CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL
AECPSS	APRON ENDWALL CULVERT PIPE SLOPED SECTION
AEW	APRON END WALL
AGG	AGGREGATE
ASPH	ASPHALT
BAD	BASE AGGREGATE DENSE
B/C	BACK OF CURB
BM	BENCH MARK
C&G	CURB AND GUTTER
C/L	CENTER OR CONSTRUCTION LINE
CONC	CONCRETE
CP	CULVERT PIPE
CPCM	CULVERT PIPE CORRUGATED METAL
CPRC	CULVERT PIPE REINFORCED CONCRETE
CPRCHE	CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL
CSD	CONCRETE SURFACE DRAIN
CY	CUBIC-YARD
D	DEGREE OF CURVE
Δ	DELTA
DISCH	DISCHARGE
DWY	DRIVEWAY
EBS	EXCAVATION BELOW SUBGRADE
EFR	EAST FRONTAGE ROAD
EL	ELEVATION
FE	FIELD ENTRANCE
HMA	HOT MIX ASPHALT
INV	INVERT
L	LENGTH OF CURVE
LHF	LEFT HAND FORWARD
LT	LEFT
MIN	MINIMUM
M/L	MATCHLINE
NB	NORTHBOUND
NC	NORMAL CROWN
PAVT	PAVEMENT
PC	POINT-OF CURVE
PCC	POINT OF COMPOUND CURVE
PE	PRIVATE ENTRANCE
PGL	PROFILE GRADE LINE
PI	POINT OF INTERSECTION
PLE	PERMANENT LIMITED EASEMENT
PT	POINT OF TANGENT
R	RADIUS OF CURVE
R/L	REFERENCE LINE
R/W	RIGHT OF WAY
RC	REVERSE CROWN
REQ'D	REQUIRED
RHF	RIGHT HAND FORWARD
RO	RUN OFF LENGTH
RT	RIGHT
SALV	SALVAGED
SB	SOUTHBOUND
SDD	STANDARD DETAIL DRAWING
SE	SUPER ELEVATION
SF	SQUARE FOOT
SSPRC	STORM SEWER PIPE REINFORCED CONCRETE
SSPRCHE	STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL
STA	STATION
SY	SQUARE YARD
T	TANGENT LENGTH
TLE	TEMPORARY LIMITED EASEMENT
TYP	TYPICAL
VCL	VERTICAL CURVE LENGTH
VPC	POINT OF VERTICAL CURVE
VPI	POINT OF VERTICAL INTERSECTION
VPT	POINT OF VERTICAL TANGENT
WFR	WEST FRONTAGE ROAD

2

2

TOWN OF
YORKVILLE

SYLVANIA
AIRPORT

56TH ROAD

LEETSBIR ROAD

GRANDVIEW PARKWAY

WEST FRONTAGE ROAD

IH 94 SB
IH 94 NB

IH 94

EAST FRONTAGE ROAD

LOUIS SORENSON ROAD

1/4 SECTION LINE

BEGIN PROJECT
I.D. 1033-02-77
STA. 5791+00
= MATCH PROJECT
I.D. 1030-24-70

VILLAGE OF
MT. PLEASANT

SECTION LINE

END PROJECT
I.D. 1033-02-77
STA. 5836+47.59
= MATCH PROJECT
I.D. 1033-02-70
(PREVIOUSLY CONSTRUCTED)

STATION EQUATION
STA. 5836+47.59 BACK=
STA. 3835+00.00 AHEAD

STH 20

N

PROJECT NO: 1033-02-77	HWY: IH 94	COUNTY: RACINE	PROJECT OVERVIEW: EAST FRONTAGE ROAD	SHEET 4	E

FILE NAME : Z:\Racine\CADDS\14\14E\CDS\020201_po.dgn PLOT DATE : 7/31/2017 PLOT BY : bjw PLOT NAME : PLOT SCALE : 1:600

2

N

2

CTH K

TOWN OF RAYMOND

SECTION LINE

5 MILE ROAD

CTH G

WEST FRONTAGE ROAD

IH 94

EAST FRONTAGE ROAD

SECTION LINE

4 MILE ROAD

BELL ROAD

BEGIN CONSTRUCTION
STA 5106+00

END CONSTRUCTION
STA 5106+35

SECTION LINE

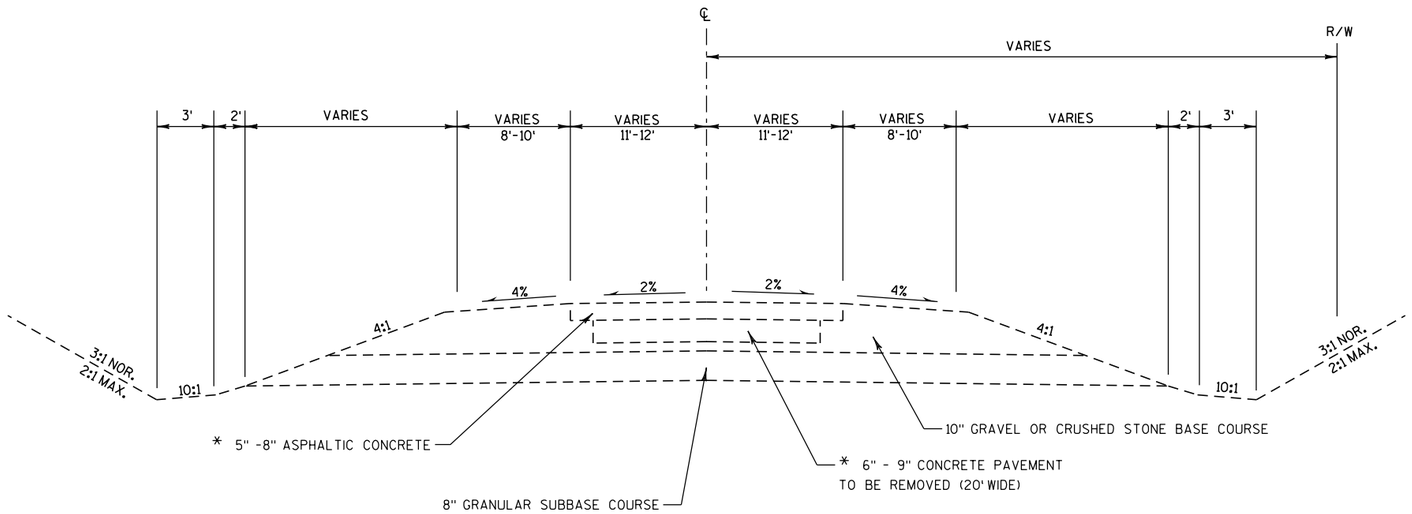
VILLAGE OF CALEDONIA

PROJECT NO: 1033-02-77	HWY: IH 94	COUNTY: RACINE	PROJECT OVERVIEW - CTH K TO CTH G EAST FRONTAGE ROAD	SHEET 5	E

FILE NAME : Z:\Racine\CADDS\18\18E-drainage\020201_po.dgn PLOT DATE : 7/31/2017 PLOT BY : bjw PLOT NAME : $FILE$ PLOT SCALE : 1:1000

WISDOT/CADDS SHEET 42

2



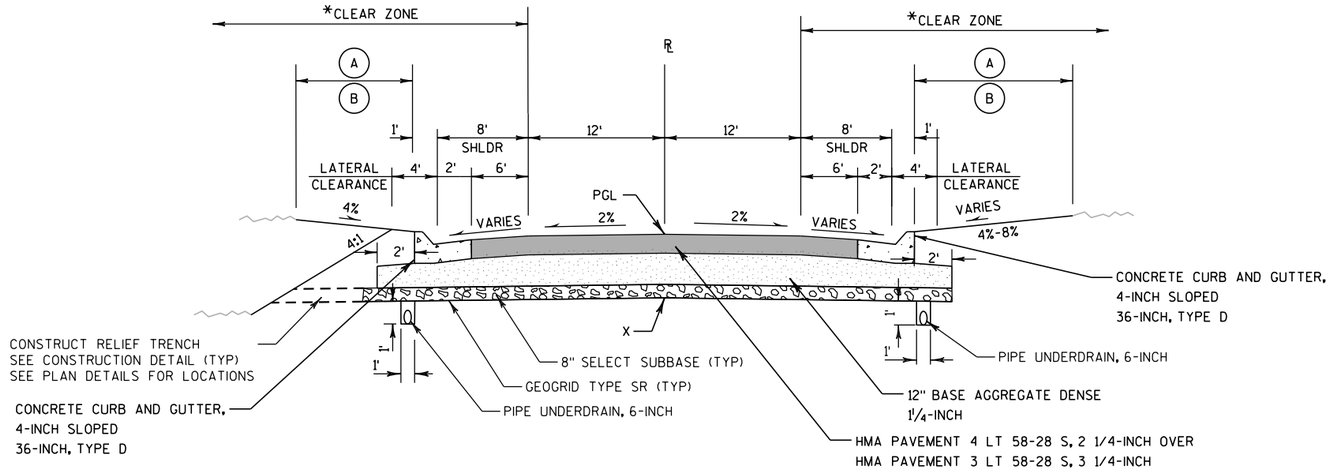
TYPICAL EXISTING SECTION
EAST FRONTAGE ROAD

STA. 5791+00 TO STA. 5836+45

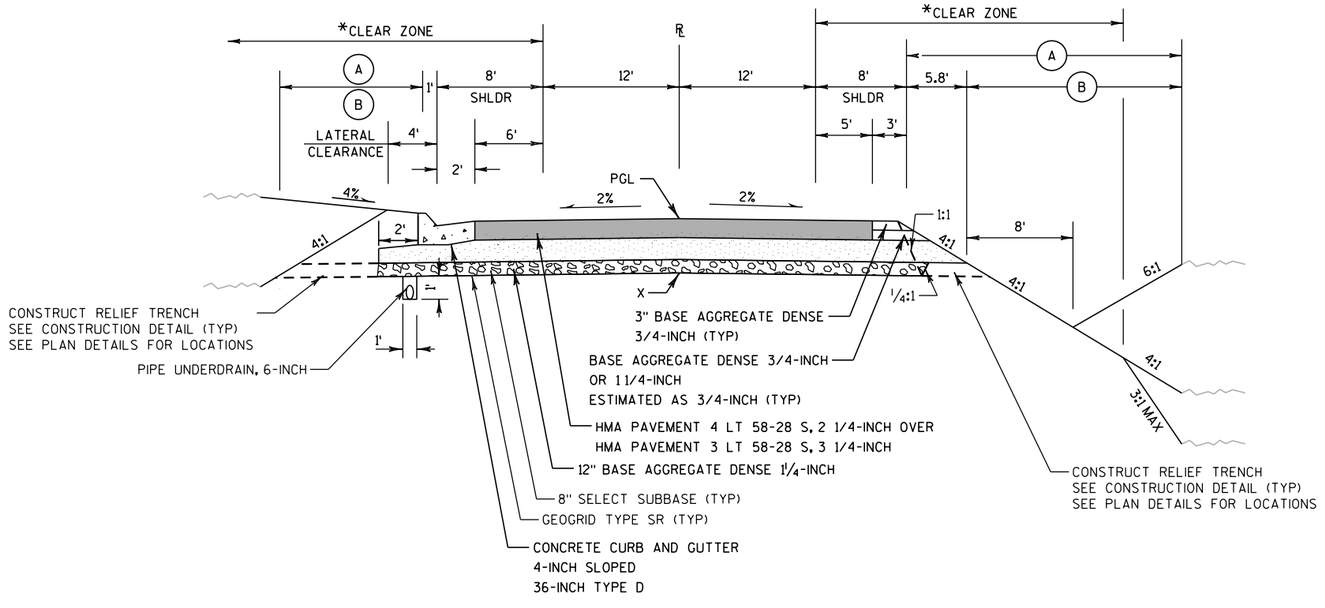
* SEE BORING TABLE

EFR BORINGS		
APPROX. STA	BORING #	THICKNESS (INCHES)
5793+63	RPA 192	5" ASPHALTIC CONCRETE, 6" CONCRETE PAVEMENT
5808+63	RPA 193	8" ASPHALTIC CONCRETE, 9" CONCRETE PAVEMENT
5814+00	RPA 194	8" ASPHALTIC CONCRETE, 9" CONCRETE PAVEMENT
5823+62	RPA 195	8" ASPHALTIC CONCRETE, 9" CONCRETE PAVEMENT

2



TYPICAL FINISHED SECTION
EAST FRONTAGE ROAD
STA. 5814+25 TO 5818+50



TYPICAL FINISHED SECTION
EAST FRONTAGE ROAD
STA. 5791+00 TO 5814+25

LEGEND:

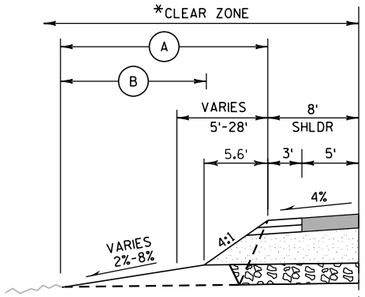
(A) SEEDING MIXTURE NO. 30, SPECIAL* AND FERTILIZER TYPE B, SPECIAL

(B) 4" SALVAGED TOPSOIL AND MULCHING OR E-MAT

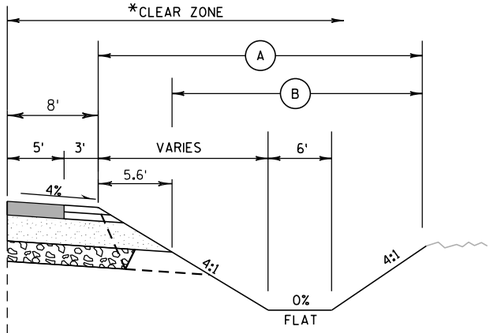
*EXCEPT USE SEEDING MIXTURE NO. 40 AT AREAS DESIGNATED IN THE EROSION CONTROL PLANS

NOTE:

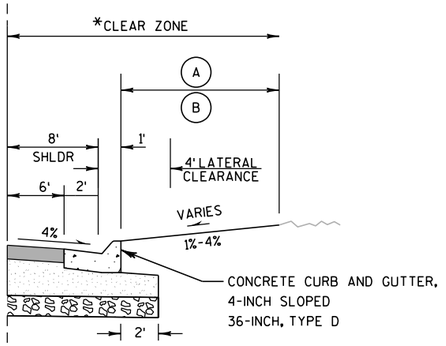
PGL = POINT REFERRED TO ON PROFILE
X = POINT REFERRED TO ON CROSS SECTION
* = 34' CLEAR ZONE, STA. 5791+00 TO 5799+50 RT
STA. 5822+00 TO 5836+48 RT
20' CLEAR ZONE, STA. 5799+50 TO 5822+00 RT
34' CLEAR ZONE, STA. 5829+00 TO 5836+48 LT
18' CLEAR ZONE, STA. 5791+00 TO 5829+00 LT



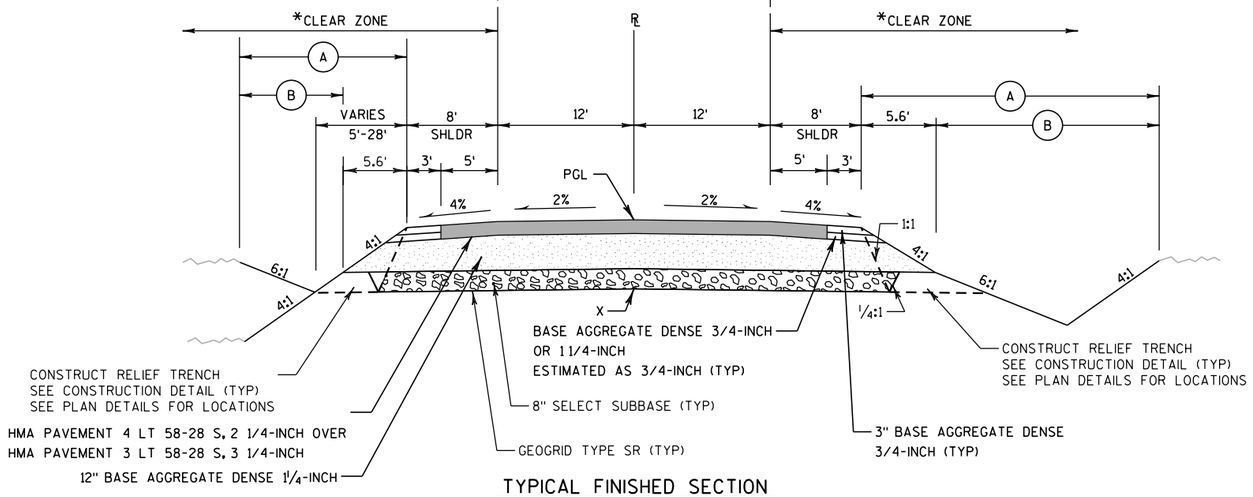
STA. 5836+25 TO 5836+47.59



STA. 5836+25 TO 5836+47.59



STA. 5818+50 TO 5819+50



TYPICAL FINISHED SECTION
EAST FRONTAGE ROAD

STA. 5818+50 TO 5824+45
STA. 5836+25 TO 5836+47.59

LEGEND:

(A) SEEDING MIXTURE NO. 30, SPECIAL* AND FERTILIZER TYPE B, SPECIAL

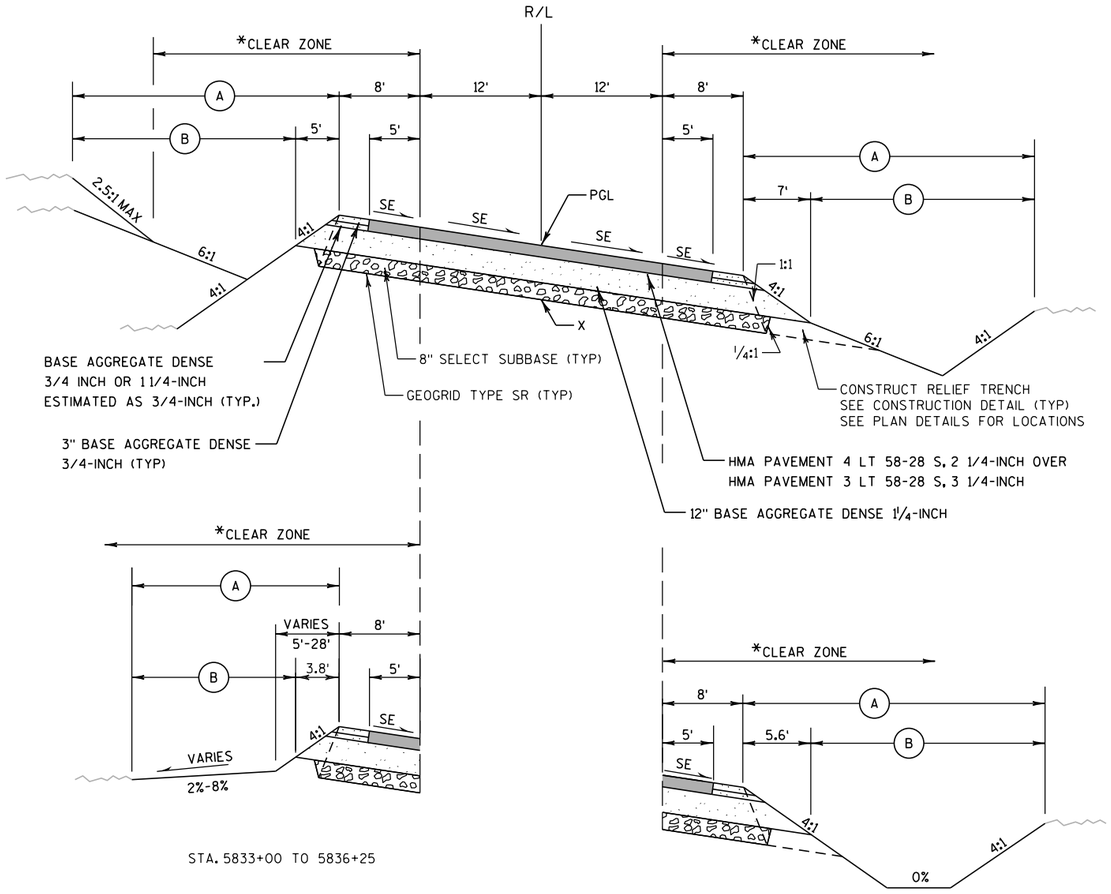
(B) 4" SALVAGED TOPSOIL AND MULCHING OR E-MAT

*EXCEPT USE SEEDING MIXTURE NO. 40 AT AREAS DESIGNATED IN THE EROSION CONTROL PLANS

NOTE:

PGL = POINT REFERRED TO ON PROFILE
X = POINT REFERRED TO ON CROSS SECTION
* = 34' CLEAR ZONE, STA. 5791+00 TO 5799+50 RT
STA. 5822+00 TO 5836+48 RT
20' CLEAR ZONE, STA. 5799+50 TO 5822+00 RT
34' CLEAR ZONE, STA. 5829+00 TO 5836+48 LT
18' CLEAR ZONE, STA. 5791+00 TO 5829+00 LT

2



STA. 5833+00 TO 5836+25

STA. 5833+00 TO 5836+25

LEGEND:

(A) SEEDING MIXTURE NO. 30, SPECIAL* AND FERTILIZER TYPE B, SPECIAL

(B) 4" SALVAGED TOPSOIL AND MULCHING OR E-MAT

*EXCEPT USE SEEDING MIXTURE NO. 40 AT AREAS DESIGNATED IN THE EROSION CONTROL PLANS

NOTE:
PGL = POINT REFERRED TO ON PROFILE AND PIVOT POINT FOR SUPERELEVATION
X = POINT REFERRED TO ON CROSS SECTION

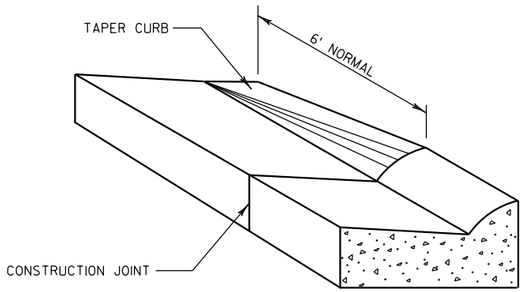
SEE ALIGNMENT LAYOUT SHEET FOR SUPERELEVATION (SE) RATES AND FERTILIZER TYPE B

* = 34' CLEAR ZONE, STA. 5791+00 TO 5799+50 RT
STA. 5822+00 TO 5836+48 RT
20' CLEAR ZONE, STA. 5799+50 TO 5822+00 RT
34' CLEAR ZONE, STA. 5829+00 TO 5836+48 LT
18' CLEAR ZONE, STA. 5791+00 TO 5829+00 LT

TYPICAL FINISHED SECTION

EAST FRONTAGE ROAD SUPERELEVATED SECTION

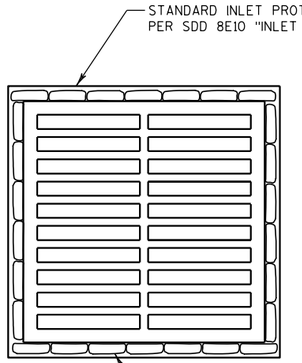
STA. 5824+45 - STA. 5836+25



CURB & GUTTER TERMINI DETAIL

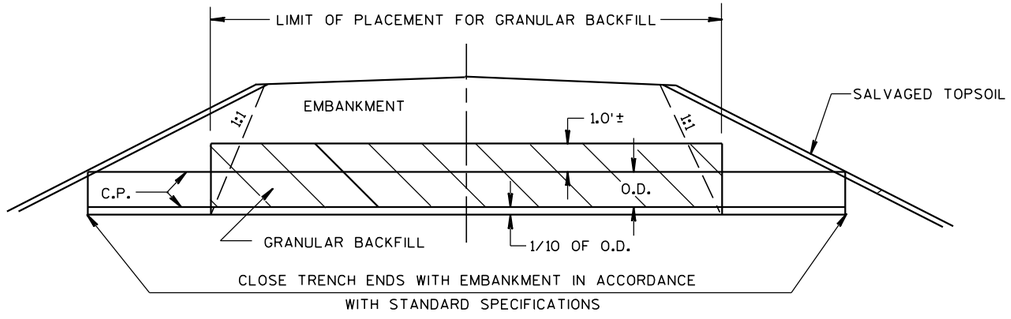
NOTE: USE 6 FT TRANSITION FOR CONCRETE AND ASPHALTIC CURB

100813

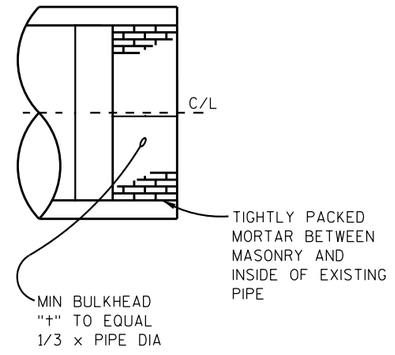


INLET PROTECTION TYPE A MODIFIED DETAIL

NOTE: ROCK BAGS SHALL BE LAID END TO END
INSIDE THE TYPE A INLET PROTECTION.

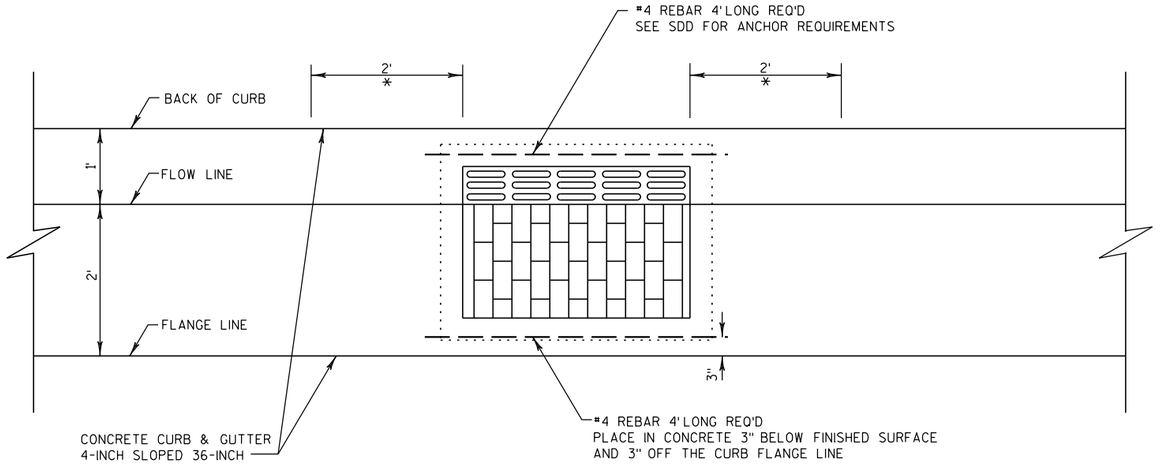


CULVERT BACKFILL DETAIL



TEMPORARY BULKHEAD PIPE MASONRY

ITEM TO BE PAID FOR UNDER ITEM "SEALING PIPES"
FOR LOCATIONS SEE MISCELLANEOUS QUANTITIES SHEETS



PLAN VIEW

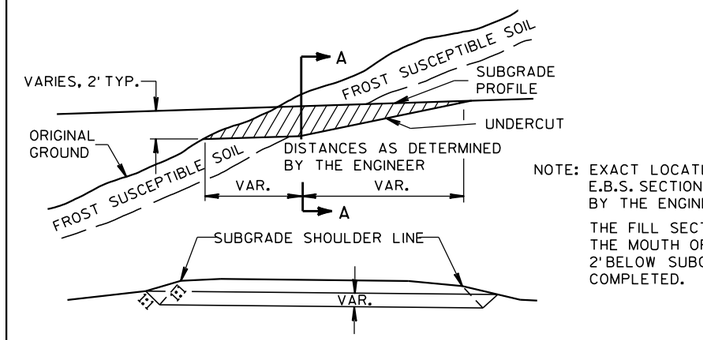
* TRANSITION STANDARD CURB HEAD TO MATCH THE TYPE HM INLET COVER.

NOTES

1. SEE SDD "INLET COVERS TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S" FOR ADDITIONAL INFORMATION.
2. THE TWO 2-FOOT LONG CURB TRANSITION SEGMENTS ARE PAID AS CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH.
3. THE TWO 4-FOOT LENGTHS OF #4 REBAR ARE INCIDENTAL TO THE BID ITEM "INLET COVERS TYPE HM".

INLET COVERS, TYPE HM

100813



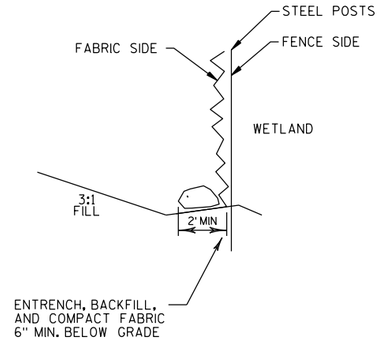
SECTION A-A

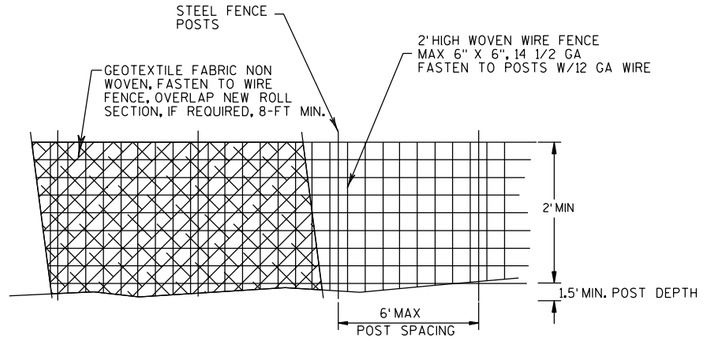
CROSS SECTION SHOWING UNDERCUT

NOTE: EXACT LOCATIONS AND EXTENT OF E.B.S. SECTIONS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

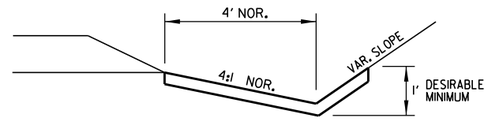
THE FILL SECTION WITHIN 100' OF THE MOUTH OF THE CUT MUST BE KEPT 2' BELOW SUBGRADE UNTIL E.B.S. IS COMPLETED.

EXCAVATION BELOW SUBGRADE AT CUTS





HEAVY DUTY SILT FENCE



EROSION MAT DETAIL FOR DITCHES

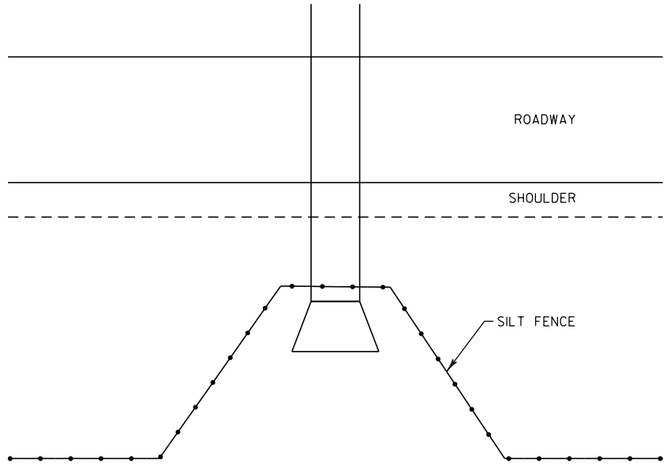
081231

RUNOFF COEFFICIENT TABLE

	HYDROLOGIC SOIL GROUP											
	A			B			C			D		
	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)		
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56
MEDIAN STRIP- TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22 .28	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40
SIDE SLOPE- TURF			.25 .32			.27 .34			.28 .36			.30 .38
PAVEMENT: HMA												
ASPHALT	.70 - .95											
CONCRETE	.80 - .95											
BRICK	.70 - .80											
DRIVES, WALKS	.75 - .85											
ROOFS	.75 - .95											
GRAVEL ROADS, SHOULDERS	.40 - .60											

TOTAL PROJECT AREA = 111.12 ACRES (STH 11 TO STH 20 R/W AREA)
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 9.42 ACRES (I.D. 1033-02-77 DISTURBED AREA)

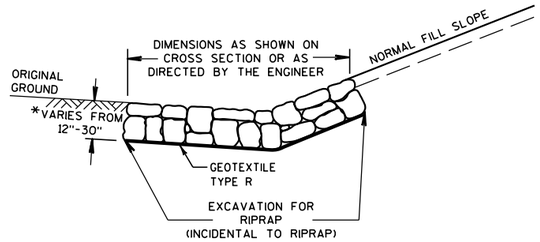
090805



NOTE
SEE SILT FENCE SDD FOR ADDITIONAL INFORMATION.

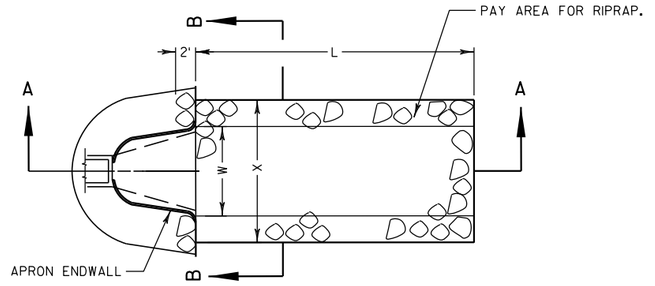
100902

TYPICAL SILT FENCE DETAIL AT PIPE INLET



DETAIL FOR RIPRAP IN DITCHES

* PROVIDE DEPTHS AND VARIOUS RIPRAP SIZES IN ACCORDANCE WITH SECTION 606 OF THE STANDARD SPECIFICATIONS.



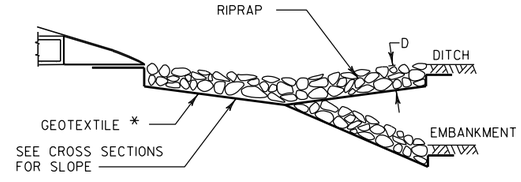
PLAN VIEW

L = 3 x W (NOR) OR 10' MIN
OR AS INDICATED IN THE PLANS
OR AS DIRECTED BY THE ENGINEER

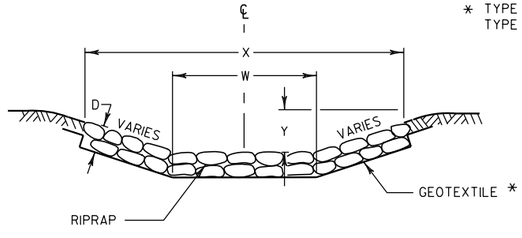
D = 12" FOR RIPRAP LIGHT
18" FOR RIPRAP MEDIUM
24" FOR RIPRAP HEAVY

X = W+2' FOR TYPICAL CULVERT
DISCHARGE INTO DITCH
W+5' FOR CULVERT DISCHARGE
DOWN EMBANKMENT SLOPE

Y = 0' FOR TYPICAL CULVERT
DISCHARGE INTO DITCH
12" FOR CULVERT DISCHARGE
DOWN EMBANKMENT SLOPE



SECTION A-A



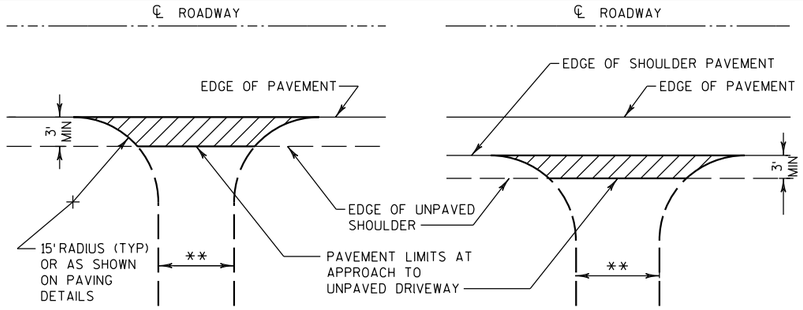
SECTION B-B

* TYPE R (FOR RIPRAP LIGHT ONLY)
TYPE HR (FOR RIPRAP HEAVY AND MEDIUM ONLY)

RIPRAP AND GEOTEXTILE DETAIL AT APRON ENDWALLS

SEE EROSION CONTROL PLAN FOR LOCATIONS

100914

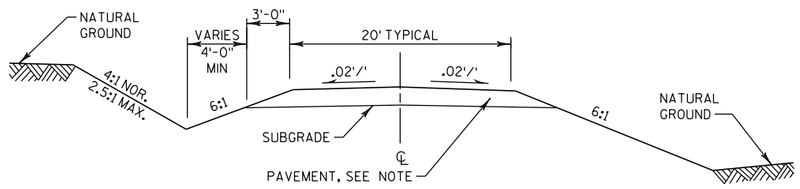


** SEE PAVING DETAILS FOR WIDTH REQUIRED.

PLAN VIEW

PLAN VIEW
(PAVED SHOULDER ON HIGHWAY)

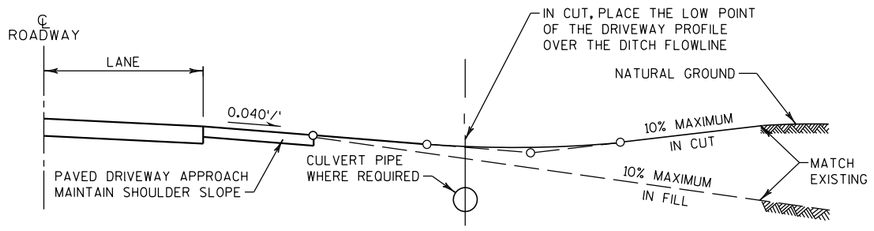
RURAL DRIVEWAY INTERSECTION



IN CUT

IN FILL

TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE



TYPICAL DRIVEWAY PROFILES

NOTES

1. WHERE DRIVEWAY IS PAVED, APPROACH PAVEMENT SHOULD BE EXTENDED TO MATCH DRIVEWAY PAVEMENT. SAWCUT IS REQUIRED.

2. DRIVEWAY SURFACE TO BE SAME AS EXISTING WITH MINIMUM SECTION AS FOLLOWS UNLESS OTHERWISE NOTED IN THE PLANS:

   ASPHALTIC SURFACE (3 OR 4-INCH) DRIVEWAYS AND FIELD ENTRANCES OVER BASE AGGREGATE DENSE 3/4 -INCH (4-INCH)

   OR

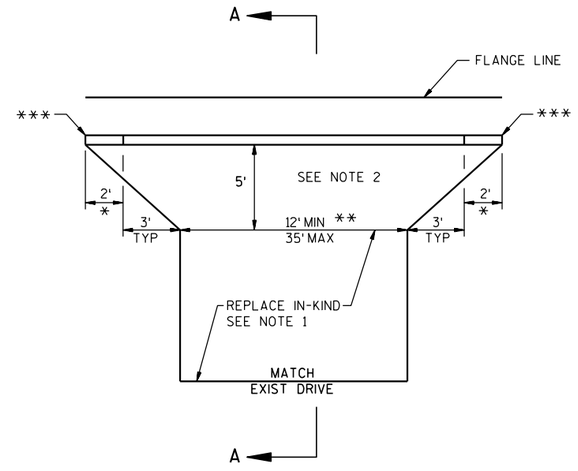
   CONCRETE DRIVEWAY 6-INCH OVER BASE AGGREGATE DENSE 3/4 -INCH (4-INCH)

   OR

   BASE AGGREGATE DENSE 3/4 -INCH (6-INCH)

RURAL DRIVEWAY

100902



PLAN VIEW

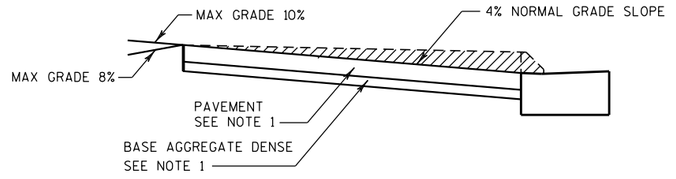
* TAPER CURB HEAD (1.5" TO 6")
** SEE PAVING DETAILS FOR WIDTH REQUIRED
*** STATION SHOWN ON PAVING DETAILS

NOTES

1. DRIVEWAY SURFACE TO BE SAME TYPE AND THICKNESS AS EXISTING WITH MINIMUM SECTION OF:

   ASPHALTIC SURFACE (3-INCH OR 4-INCH MIN.) DRIVEWAYS AND FIELD ENTRANCES OVER BASE AGGREGATE DENSE 3/4-INCH (4-INCH)
   OR
   BASE AGGREGATE DENSE 3/4-INCH (6-INCH)

2. ALL URBAN DRIVEWAYS TO BACK OF APRON TO BE PAID FOR AS ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES UNLESS OTHERWISE DESIGNATED IN PLANS

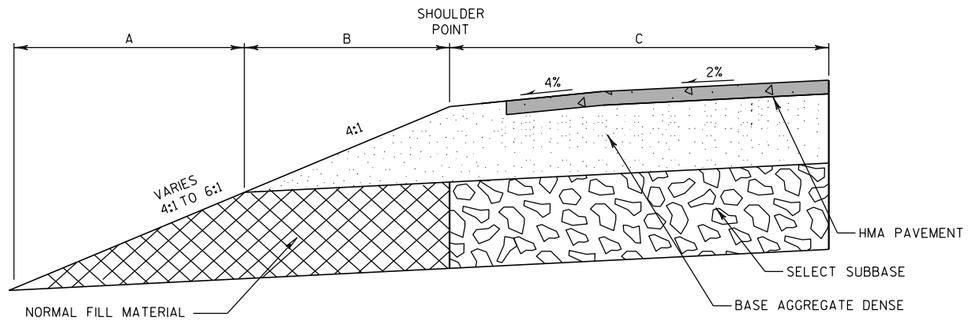


110210(MOD)

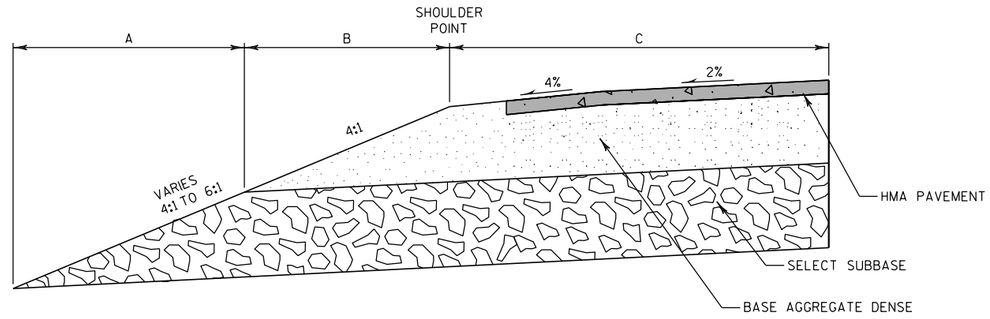
SECTION A-A

URBAN DRIVEWAY

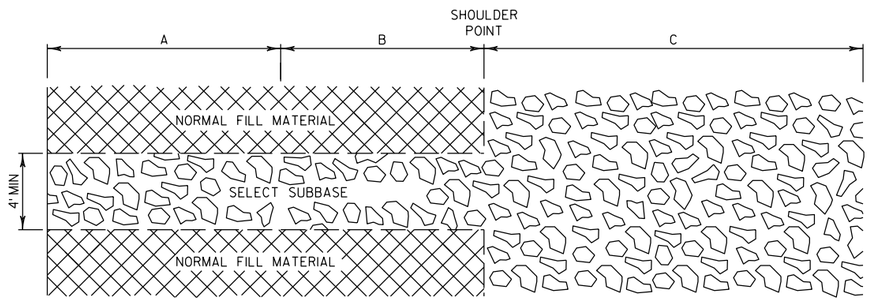
2



TYPICAL HALF SECTION WITHOUT RELIEF TRENCH



TYPICAL HALF SECTION WITH RELIEF TRENCH



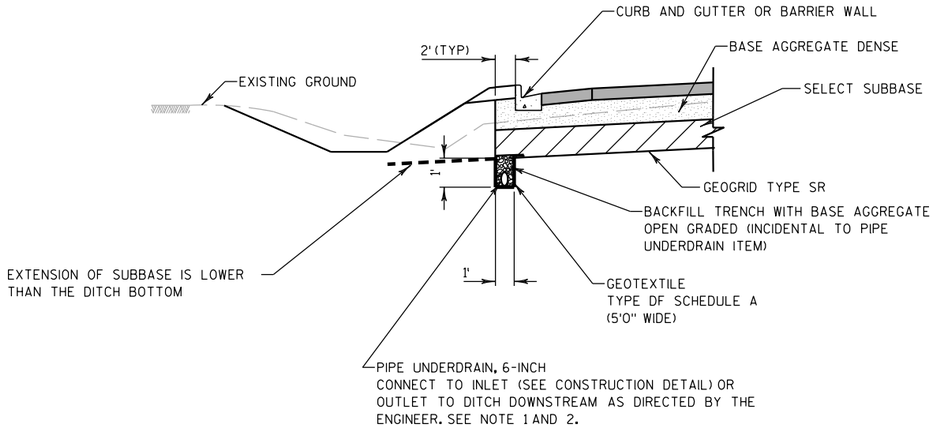
RELIEF TRENCH PLAN VIEW

RELIEF TRENCH

SEE PLAN DETAILS FOR RELIEF TRENCH LOCATIONS.

NOTES: EXCAVATION FOR RELIEF TRENCHES TO BE PAID UNDER THE ITEM EXCAVATION COMMON.
DO NOT PLACE TOPSOIL AT RELIEF TRENCH.

110210(MOD)



PIPE UNDERDRAIN IN URBAN SECTIONS

SEE PLAN DETAILS FOR PIPE UNDERDRAIN LOCATIONS

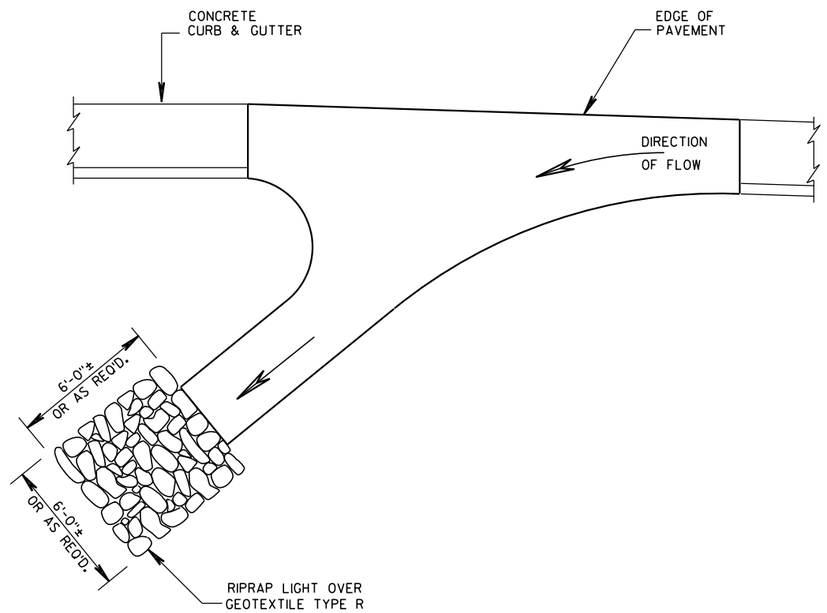
NOTES:

1. PIPE UNDERDRAIN UNPERFORATED REQUIRED AT LOCATIONS WHERE UNDERDRAIN IS REQUIRED TO CONNECT TO DITCHES OUTSIDE THE EBS AREA.

2. PIPE UNDERDRAIN UNPERFORATED REQUIRED AT LOCATIONS WHERE UNDERDRAIN IS REQUIRED TO OUTFALL IN DITCHES ON THE OPPOSITE SIDE OF THE ROAD (SEE UNDERDRAIN LATERAL CROSSING OUTLET DETAIL)

3. USE APRON ENDWALLS FOR UNDERDRAIN REINFORCED CONCRETE AT ALL DITCH OUTFALLS OF PIPE UNDERDRAIN.

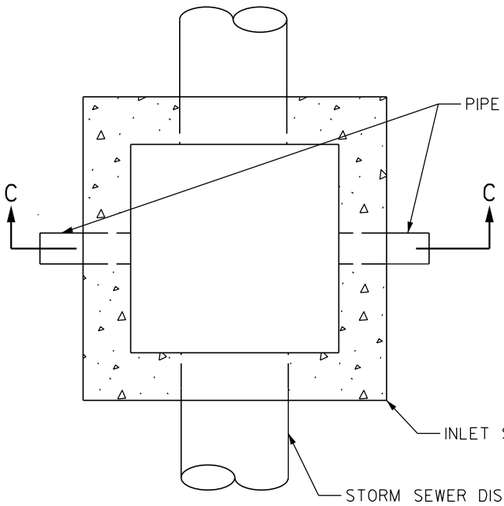
4. ADJUST LATERAL LOCATION OF PIPE UNDERDRAIN AS NECESSARY TO AVOID CONFLICTS WITH THE STORM SEWER.



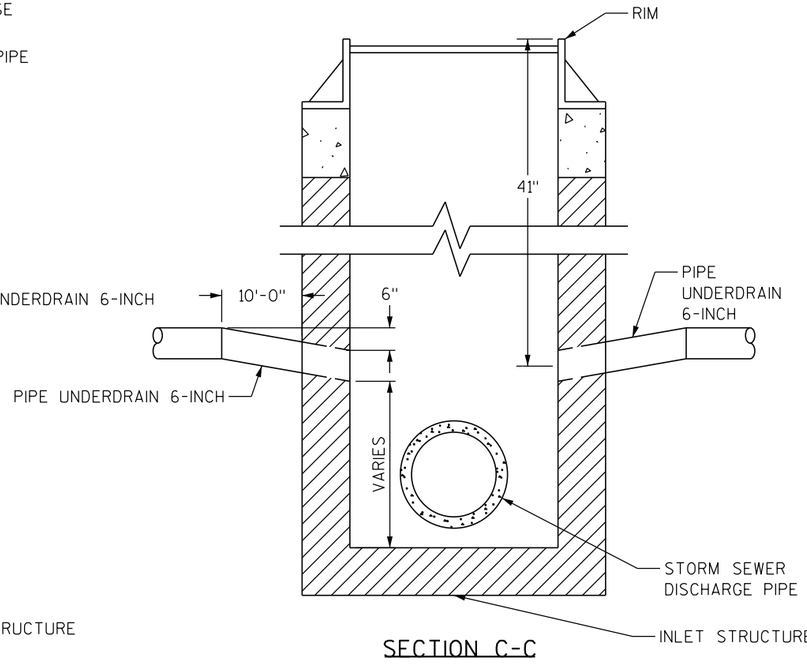
RIP RAP AT ASPHALTIC FLUME

NOTES

1. CONNECTIONS TO INLETS OR MANHOLES SHALL USE PIPE UNDERDRAIN, 6-INCH.
2. PROVIDE TWO 6" DIA. OPENINGS FOR UNDERDRAIN PIPE A MINIMUM OF 41" BELOW THE RIM ELEVATION.



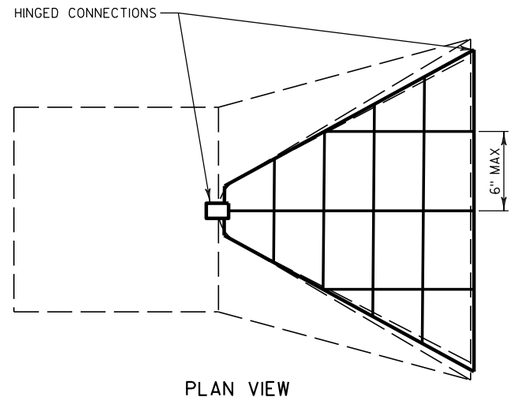
PLAN VIEW



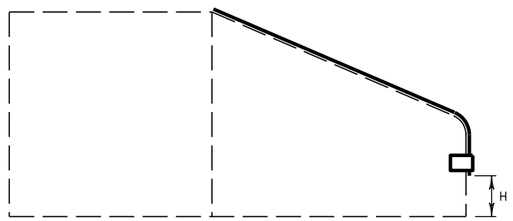
SECTION C-C

UNDERDRAIN OUTFALL AT INLET

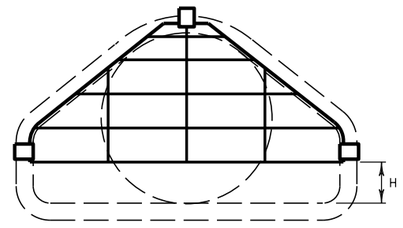
100514 (MOD)



PLAN VIEW



SIDE VIEW



END VIEW

PIPE GRATE

GRATE CLEARANCE HEIGHT

ROUND PIPE		ARCH PIPE	
PIPE SIZE	H	PIPE SIZE	H
12"	2 1/2"	22" - 29"	4"
15"	3"	36" - 44"	5"
18" - 24"	4"	51" - 65"	6"
27" - 36"	5"	73" - 85"	7"
42" - 54"	6"		
60" - 72"	7"		
78" - 90"	8"		

GRATE BAR SIZES
(STANDARD DESIGN)

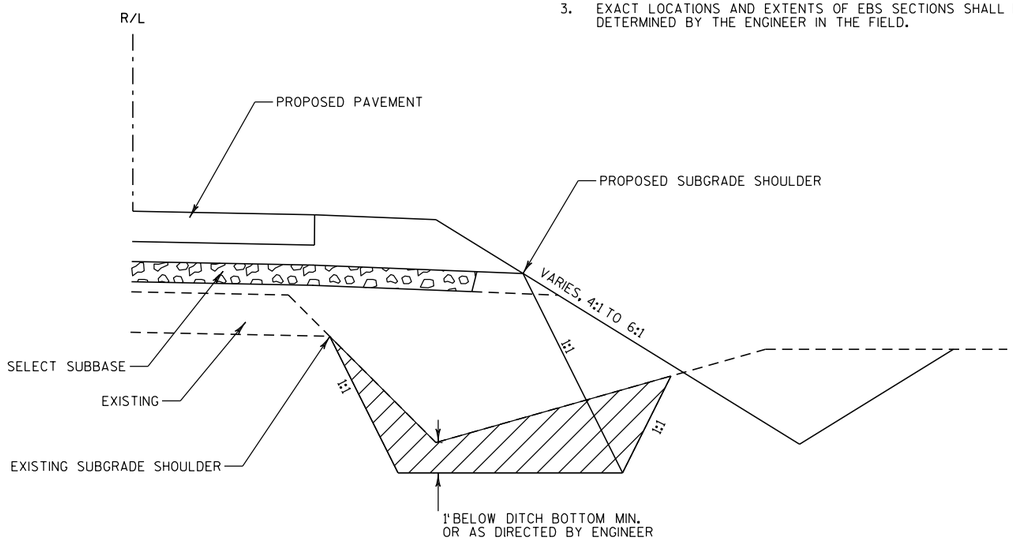
	PIPE SIZE	HOLE DIAMETER REQUIRED	BOLT DIAMETER	BAR SIZE
ROUND PIPE	12" - 24"	3/4"	5/8"	5/8"
	27" - 48"	7/8"	3/4"	3/4"
	54" - 90"	1 1/8"	1"	1"
ARCH PIPE	22" - 29"	3/4"	5/8"	5/8"
	36" - 59"	7/8"	3/4"	3/4"
	65" - 85"	1 1/8"	1"	1"

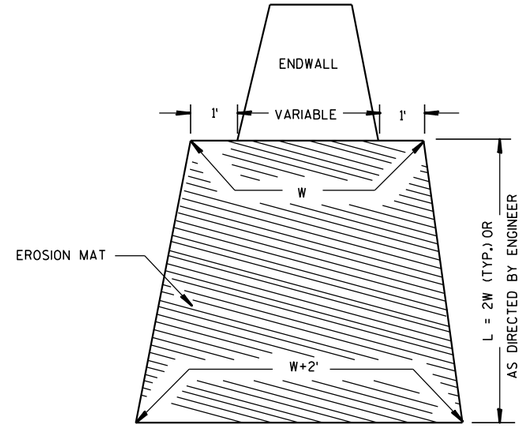
BOLT LENGTH = PIPE WALL THICKNESS + 2 1/2"

100820

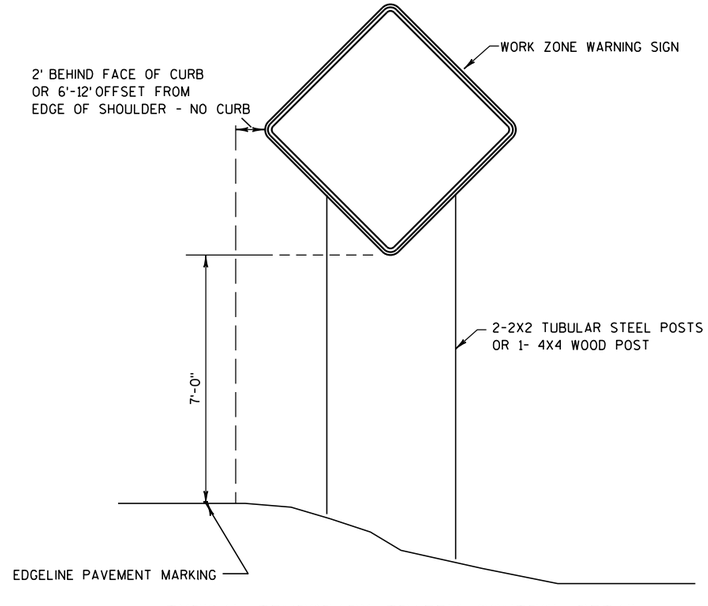
EBS AT DITCH FILLS AT FRONTAGE ROADS

1. UTILIZE DETAIL FOR ALL AREAS WHERE FILL IS TO BE PLACED OVER AN EXISTING DITCH.
2. EXCAVATE AREA TO A MINIMUM OF 1-FOOT BELOW EXISTING DITCH BOTTOM OR AS DIRECTED BY ENGINEER IN THE FIELD.
3. EXACT LOCATIONS AND EXTENTS OF EBS SECTIONS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.



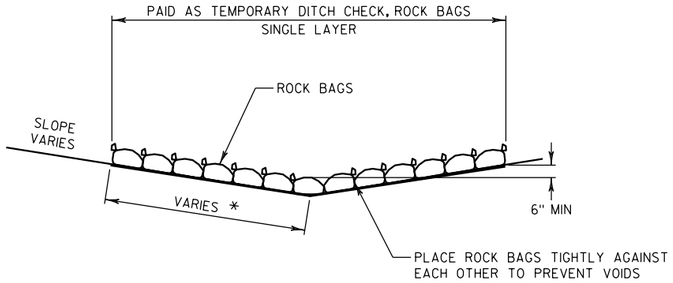


EROSION MAT TREATMENT AT CULVERTS

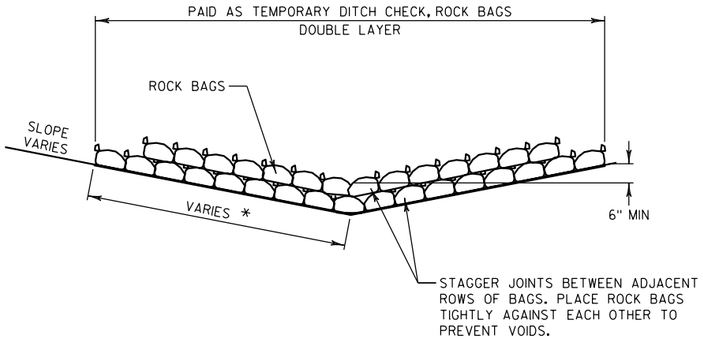


TYPICAL TEMPORARY TRAFFIC CONTROL DETAIL
MOUNTING ON FIXED SUPPORT

LONG TERM
7 DAYS OR MORE



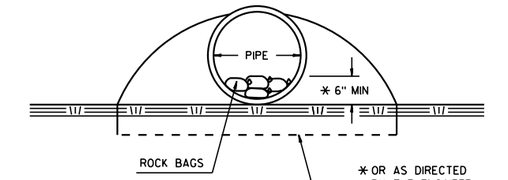
SIDE VIEW (SINGLE LAYER)



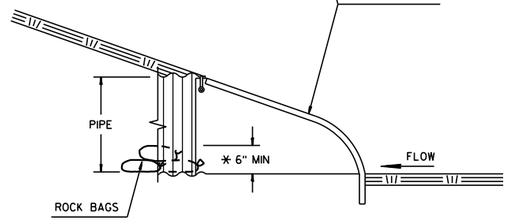
* LENGTH AND NUMBER OF BAGS MAY VARY DEPENDING ON DESIRED DEPTH OF WATER POOL.

SIDE VIEW (DOUBLE LAYER)

TEMPORARY DITCH CHECK, ROCK BAGS, SINGLE LAYER AND DOUBLE LAYER

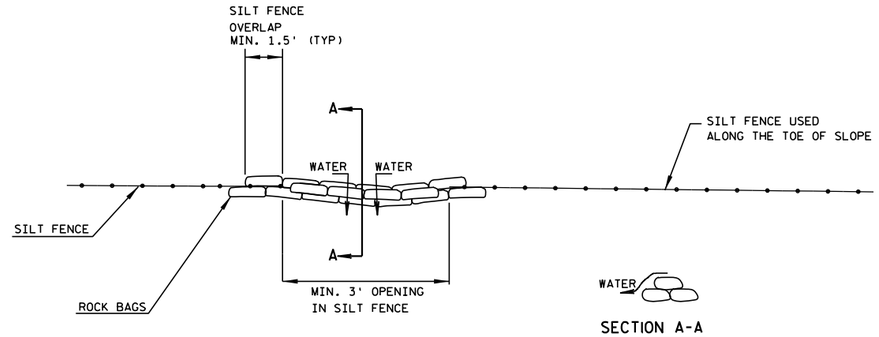


END VIEW



SIDE VIEW

CULVERT PIPE ENDS



SECTION A-A

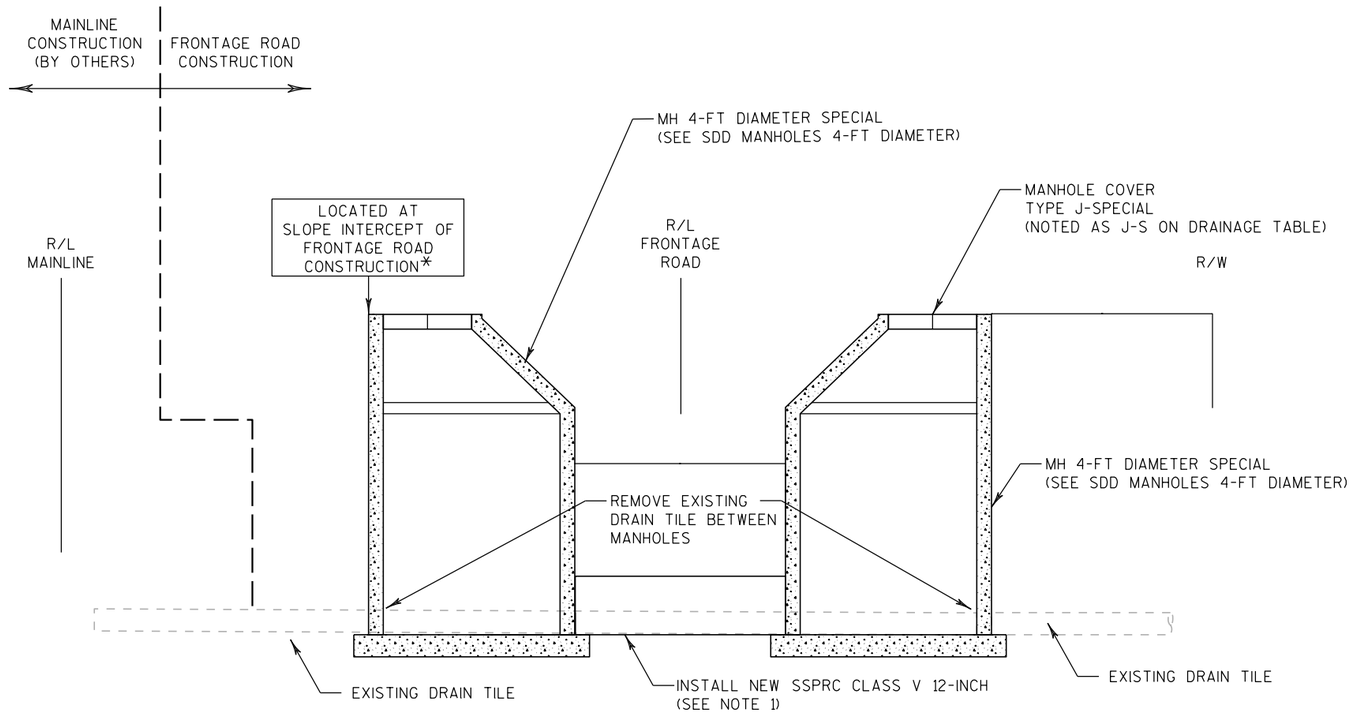
TOP VIEW

ROCK BAGS USED FOR SILT FENCE RELIEF DETAIL

ROCK BAGS

100903

2



* LOCATION CAN BE ADJUSTED AS NEEDED IF APPROVED BY THE ENGINEER

STAGING

1. FRONTAGE ROAD CONSTRUCTION:

   CONSTRUCT MANHOLE 4-FT DIAMETER SPECIAL. CONNECT EXISTING TILE TO MANHOLE. REPLACE EXISTING TILE WITH SSPRC CLASS V 12-INCH BETWEEN MANHOLES.

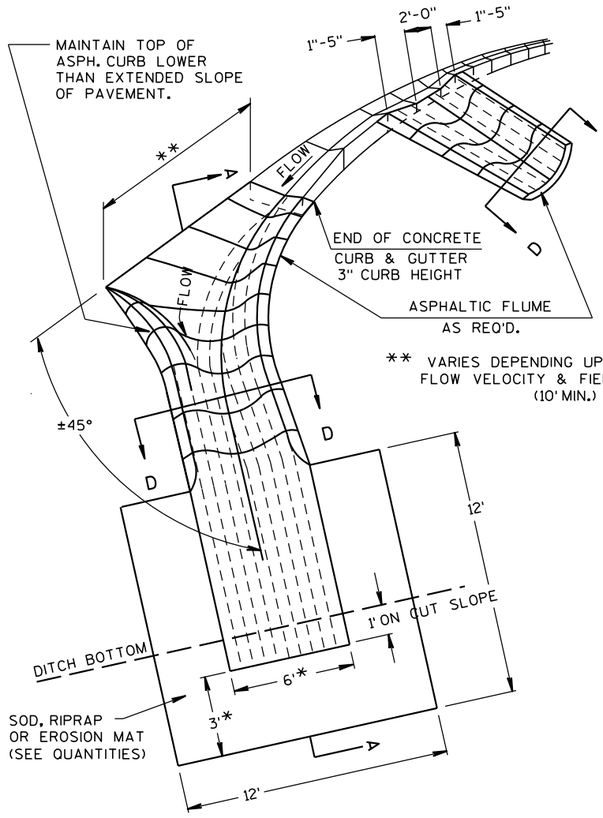
NOTES

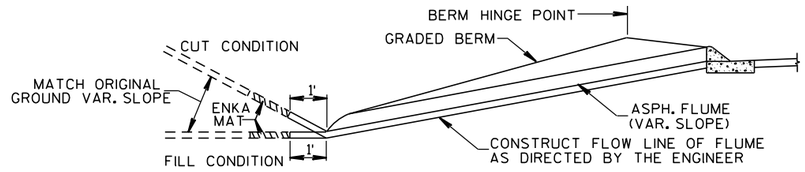
1. IF EXISTING DRAIN TILE IS LARGER THAN 12", MATCH THE EXISTING SIZE IN THE FIELD.
2. GRADING AT MANHOLES WITHIN THE CLEAR ZONE OF THE FRONTAGE ROADS AND MAINLINE IS TO BE FLUSH WITH TOP OF THE MANHOLE.
3. PIPE CONNECTION TO INLET IS INCIDENTAL.

DRAIN TILE CONFIGURATION

(FOR FRONTAGE ROAD CROSSINGS)

120814 (MOD)





SECTION A-A

** VARIES DEPENDING UPON ANTICIPATED FLOW VELOCITY & FIELD CONDITIONS (10' MIN.)

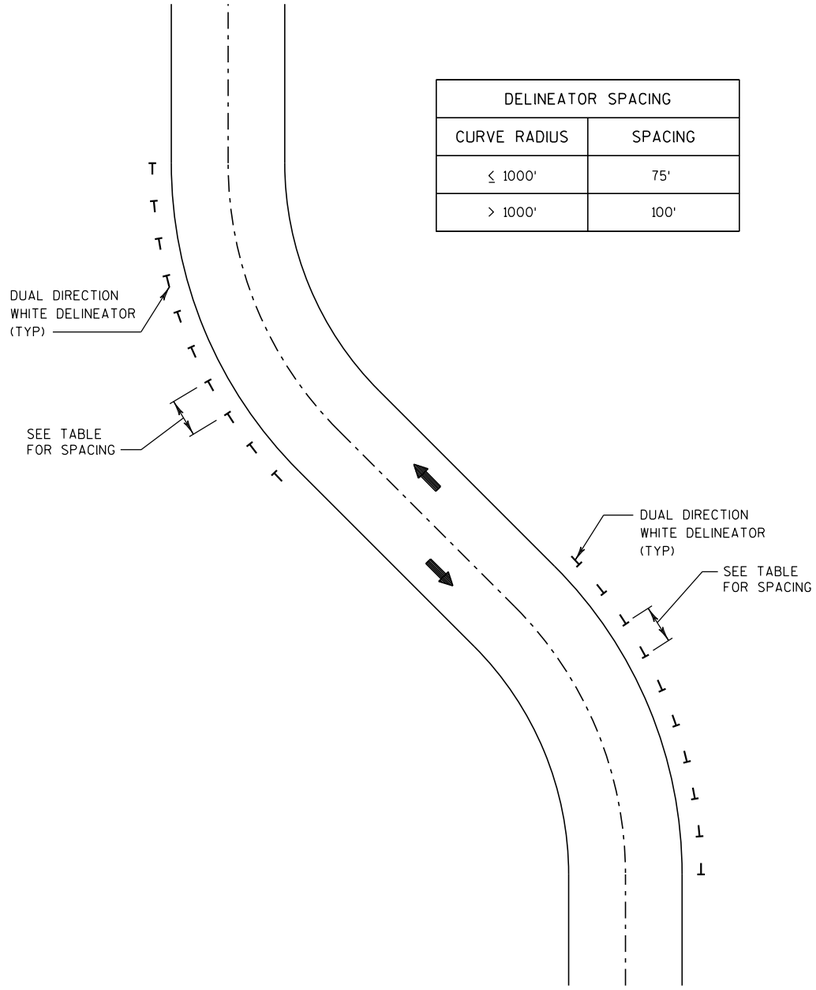
SECTION D-D

ASPHALTIC FLUME DETAIL AT RURAL INTERSECTIONS

NOTES

1. DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE STANDARD DETAIL DRAWINGS.
2. DELINEATORS SHALL BE PLACED AT A CONSTANT DISTANCE FROM THE EDGE OF THE SHOULDER FOR THE LENGTH OF THE INSTALLATION.
3. INSTALL POST PERPENDICULAR TO ROADWAY, AT THE POINT OF INSTALLATION, SO THAT THE DELINEATORS ARE VISIBLE FROM BOTH DIRECTION.

DELINEATOR SPACING	
CURVE RADIUS	SPACING
≤ 1000'	75'
> 1000'	100'



DELINEATOR SPACING

DELINEATOR LAYOUT ON FRONTAGE ROAD REVERSE CURVES

2

56TH ROAD

LEETSBIR ROAD

WEST FRONTAGE ROAD

EAST FRONTAGE ROAD

LOUIS SORENSON RD.

IH 94 SB

IH 94 NB

R/L WEST FRONTAGE ROAD

R/L IH 94

R/L EAST FRONTAGE ROAD

EXIST R/W

PROP R/W

TLE

PLE

5792+20

5793+55

5798+80

5799+20

5799+74
36.78' RT

5799+75
90' RT

CAUTION

REMOVE SMALL PIPE CULVERT (1-12" CPM)

REMOVE OLD STRUCTURE
24" x 42" BOX CULVERT
C-46-36

REMOVE DRAINTILE

BEGIN PROJECT
I.D. 1033-02-77
STA. 5791+00
= MATCH PROJECT
I.D. 1030-24-70

MATCHLINE 5800+00

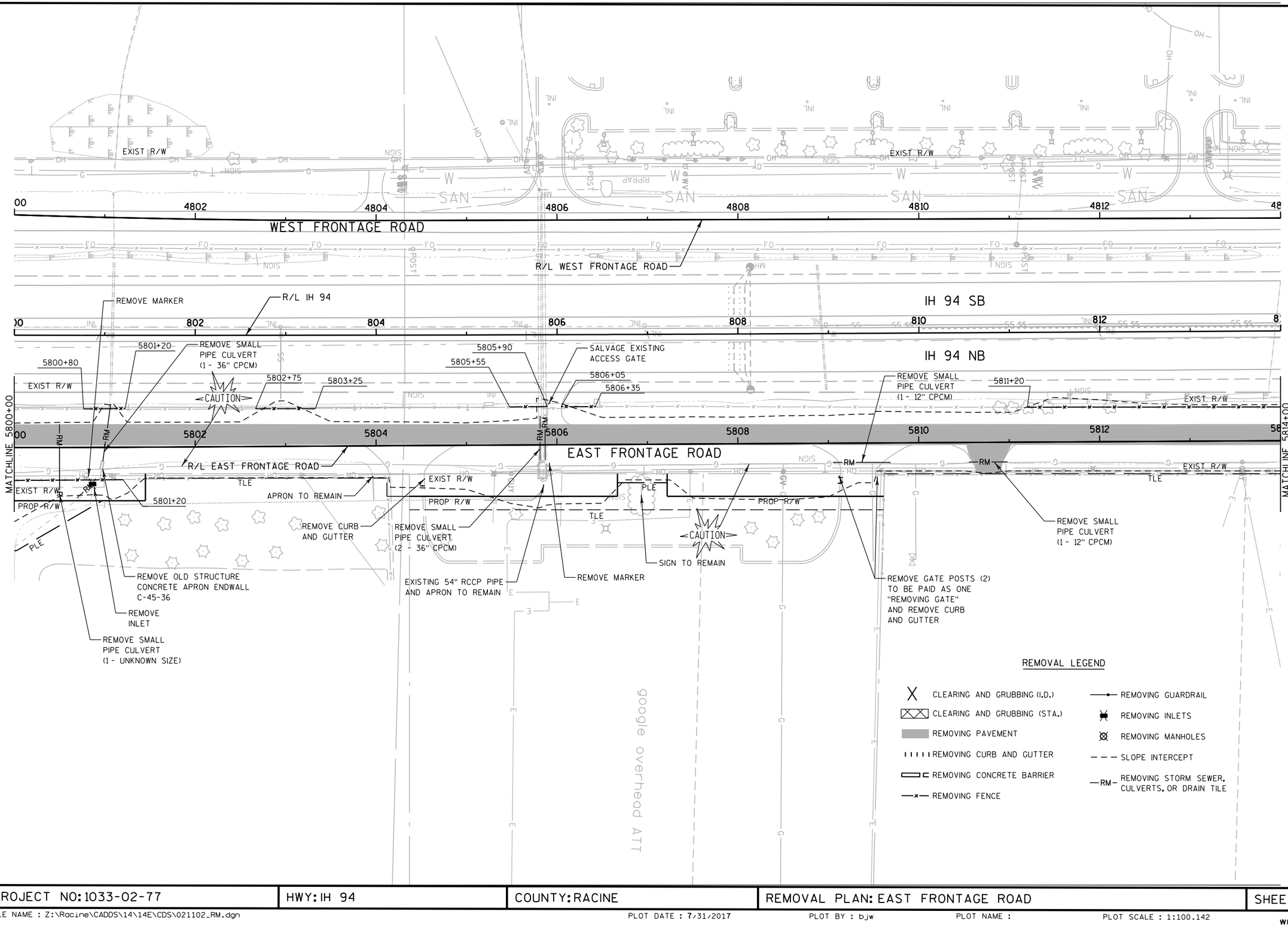
REMOVAL LEGEND

- CLEARING AND GRUBBING (I.D.)
- CLEARING AND GRUBBING (STA.)
- REMOVING PAVEMENT
- REMOVING CURB AND GUTTER
- REMOVING CONCRETE BARRIER
- REMOVING FENCE
- REMOVING GUARDRAIL
- REMOVING INLETS
- REMOVING MANHOLES
- SLOPE INTERCEPT
- RM — REMOVING STORM SEWER, CULVERTS, OR DRAIN TILE

PROJECT NO: 1033-02-77	HWY: IH 94	COUNTY: RACINE	REMOVAL PLAN: EAST FRONTAGE ROAD	SHEET 21	E

FILE NAME : Z:\Racine\CADDS\14\14E\CDS\021101_RM.dgn PLOT DATE : 7/31/2017 PLOT BY : bjw PLOT NAME : PLOT SCALE : 1:100

2



REMOVAL LEGEND

- CLEARING AND GRUBBING (I.D.)
- CLEARING AND GRUBBING (STA.)
- REMOVING PAVEMENT
- REMOVING CURB AND GUTTER
- REMOVING CONCRETE BARRIER
- REMOVING FENCE
- REMOVING GUARDRAIL
- REMOVING INLETS
- REMOVING MANHOLES
- SLOPE INTERCEPT
- RM – REMOVING STORM SEWER, CULVERTS, OR DRAIN TILE

PROJECT NO: 1033-02-77	HWY: IH 94	COUNTY: RACINE	REMOVAL PLAN: EAST FRONTAGE ROAD	SHEET 22	E

2

EXIST R/W

EXIST R/W

92 GRANDVIEW PARKWAY

EXIST R/W

EXIST R/W

4816 4818 4820 4822 4824 4826 4828

WEST FRONTAGE ROAD

R/L WEST FRONTAGE ROAD

IH 94 SB

R/L IH 94

816 818 820 822 824 826 828

IH 94 NB

REMOVE SMALL PIPE CULVERT (1 - 6" CPCM)

CAUTION

5816+67

MATCHLINE 5814+00

5816 5818 5820 5822 5824 5826

MATCHLINE 5828+00

EAST FRONTAGE ROAD

R/L EAST FRONTAGE ROAD

RM

TLE

EXIST R/W

TLE

RM

REMOVE SMALL PIPE CULVERT (1 - 18" CPCM)

RM

REMOVE DRAIN TILE

RM

REMOVE CONCRETE ENDWALL

RM

REMOVE SMALL PIPE CULVERT (1 - 12" CPCM)

REMOVE SMALL PIPE CULVERT (1 - 12" CPCM)

INLET TO REMAIN

CAUTION

EXIST R/W

EXISTING STANDPIPE TO REMAIN

INSTALL NEW APRON ON PIPE AT REMOVAL LIMIT

REMOVAL LEGEND

- CLEARING AND GRUBBING (I.D.)
- CLEARING AND GRUBBING (STA.)
- REMOVING PAVEMENT
- REMOVING CURB AND GUTTER
- REMOVING CONCRETE BARRIER
- REMOVING FENCE
- REMOVING GUARDRAIL
- REMOVING INLETS
- REMOVING MANHOLES
- SLOPE INTERCEPT
- RM — REMOVING STORM SEWER, CULVERTS, OR DRAIN TILE

PROJECT NO: 1033-02-77	HWY: IH 94	COUNTY: RACINE	REMOVAL PLAN: EAST FRONTAGE ROAD	SHEET 23	E

WEST FRONTAGE ROAD

IH 94 SB

IH 94 NB

R/L WEST FRONTAGE ROAD

R/L IH 94

R/L EAST FRONTAGE ROAD

EAST FRONTAGE ROAD

EXIST R/W

PROP R/W

REMOVE GATE

MATCHLINE 5828+00

5830+15

5830+67

CAUTION

4834 4832 4830 836 834 832 830 5830 5832 5834 5836 3836 3838 3840 3842

N

END PROJECT
I.D. 1033-02-77
STA. 5836+47.59
= MATCH PROJECT
I.D. 1033-02-70
STA. 3835+00.00
(PREVIOUSLY CONSTRUCTED)

REMOVAL LEGEND

- CLEARING AND GRUBBING (I.D.)
- CLEARING AND GRUBBING (STA.)
- REMOVING PAVEMENT
- REMOVING CURB AND GUTTER
- REMOVING CONCRETE BARRIER
- REMOVING FENCE
- REMOVING GUARDRAIL
- REMOVING INLETS
- REMOVING MANHOLES
- SLOPE INTERCEPT
- RM — REMOVING STORM SEWER, CULVERTS, OR DRAIN TILE

PROJECT NO: 1033-02-77	HWY: IH 94	COUNTY: RACINE	REMOVAL PLAN: EAST FRONTAGE ROAD	SHEET 24	E

FILE NAME : Z:\Racine\CADDS\14\14E\CDS\021104_RM.dgn PLOT DATE : 7/31/2017 PLOT BY : bjw PLOT NAME : PLOT SCALE : 1:100

PAVEMENT DETAIL LEGEND

- (APO3) HMA PAVEMENT 4 LT 58-28 S, 2¼-INCH (UPPER LAYER)
  HMA PAVEMENT 3 LT 58-28 S, 3¼-INCH (LOWER LAYER)
- (APO4) HMA PAVEMENT 5 HT 58-28 H, 2-INCH (UPPER LAYER)
  HMA PAVEMENT 3 HT 58-28 H, 3-INCH (LOWER LAYER)
- (AGO1) BASE AGGREGATE DENSE ¾-INCH
- (AGO2) BASE AGGREGATE DENSE 1¼-INCH
- (PVO5) ASPHALTIC FLUME
- (SWO1) SAWING ASPHALT
- (SWO2) SAWING CONCRETE
- (DRO3) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- (DRO7) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 4-INCH
- (CG18) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- (TRO1) RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- (PUO1) PIPE UNDERDRAIN 6-INCH
- (PUO2) PIPE UNDERDRAIN UNPERFORATED 6-INCH

IH 94 SB

IH 94 NB

R/L IH 94

786 787 788 789 790 791

WETLAND BOUNDARY

BEGIN PROJECT
I.D. 1033-02-77
STA. 5791+00
= MATCH PROJECT
I.D. 1030-24-70

+0.00
18.00' LT
768.82

EAST FRONTAGE ROAD

5787 5788 5789 5790 5791

R/L EAST FRONTAGE ROAD

LOUIS SORENSON ROAD

EXIST R/W

PROP R/W

PLE

TLE

APO3 CG18 PUO1 AGO1

768.82 768.68 768.53 768.39 768.24 768.72 769.01 769.30

6" 12" 12" 5" 3"

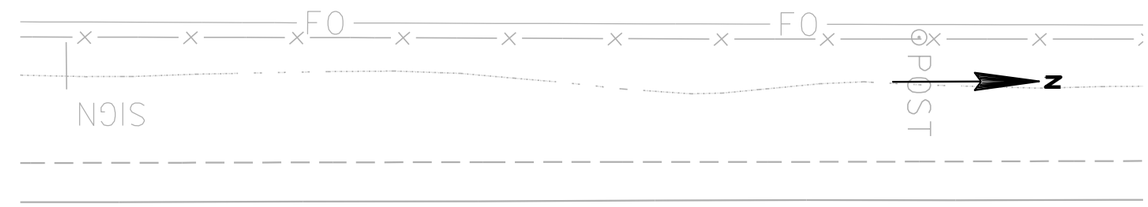
MATCHLINE 5792+00

PROJECT NO: 1033-02-77	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL: EAST FRONTAGE ROAD	SHEET 25	E

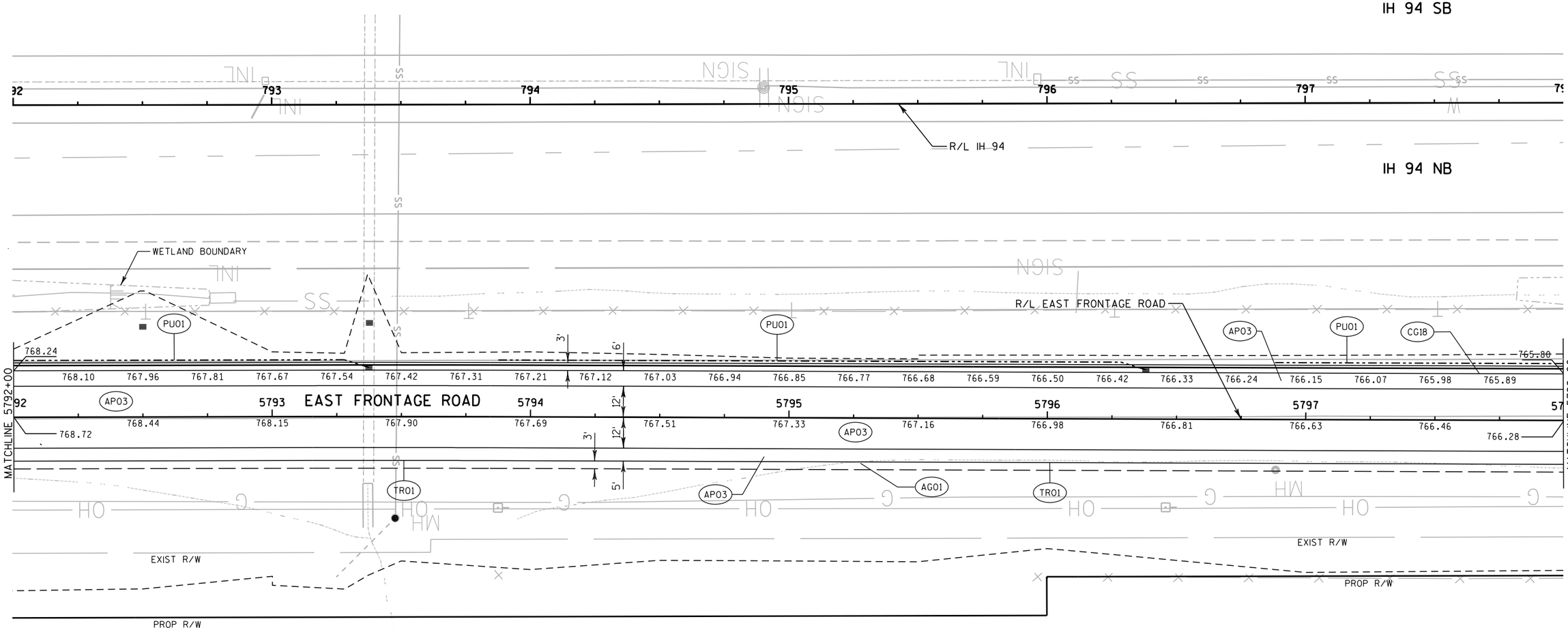
2

PAVEMENT DETAIL LEGEND

- (APO3) HMA PAVEMENT 4 LT 58-28 S, 2¼-INCH (UPPER LAYER)
  HMA PAVEMENT 3 LT 58-28 S, 3¼-INCH (LOWER LAYER)
- (APO4) HMA PAVEMENT 5 HT 58-28 H, 2-INCH (UPPER LAYER)
  HMA PAVEMENT 3 HT 58-28 H, 3-INCH (LOWER LAYER)
- (AGO1) BASE AGGREGATE DENSE ¾-INCH
- (AGO2) BASE AGGREGATE DENSE 1¼-INCH
- (PVO5) ASPHALTIC FLUME
- (SWO1) SAWING ASPHALT
- (SWO2) SAWING CONCRETE
- (DRO3) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- (DRO7) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 4-INCH
- (CG18) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- (TRO1) RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- (PUO1) PIPE UNDERDRAIN 6-INCH
- (PUO2) PIPE UNDERDRAIN UNPERFORATED 6-INCH



IH 94 SB

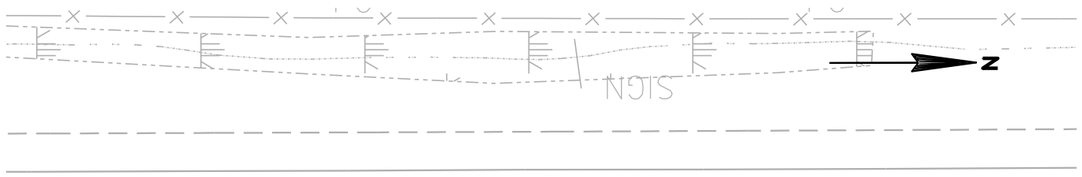


PROJECT NO: 1033-02-77	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL: EAST FRONTAGE ROAD	SHEET 26	E

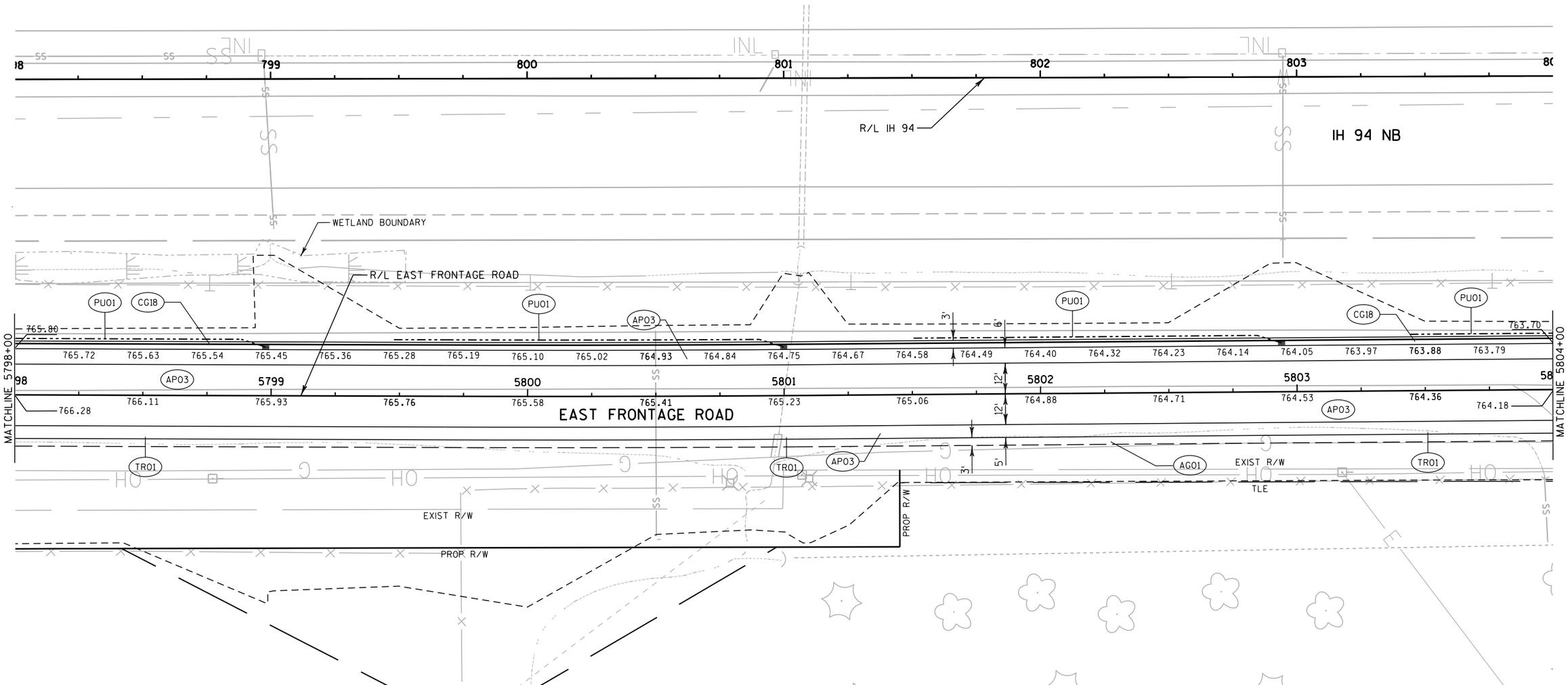
FILE NAME : Z:\Racine\CADDS\14\14E\CDS\021202_pd.dgn PLOT DATE : 7/31/2017 PLOT BY : bjw PLOT NAME : PLOT SCALE : 1:40

PAVEMENT DETAIL LEGEND

- (APO3) HMA PAVEMENT 4 LT 58-28 S, 2¼-INCH (UPPER LAYER)
  HMA PAVEMENT 3 LT 58-28 S, 3¼-INCH (LOWER LAYER)
- (APO4) HMA PAVEMENT 5 HT 58-28 H, 2-INCH (UPPER LAYER)
  HMA PAVEMENT 3 HT 58-28 H, 3-INCH (LOWER LAYER)
- (AGO1) BASE AGGREGATE DENSE ¾-INCH
- (AGO2) BASE AGGREGATE DENSE 1¼-INCH
- (PVO5) ASPHALTIC FLUME
- (SWO1) SAWING ASPHALT
- (SWO2) SAWING CONCRETE
- (DRO3) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- (DRO7) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 4-INCH
- (CG18) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- (TRO1) RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- (PU01) PIPE UNDERDRAIN 6-INCH
- (PU02) PIPE UNDERDRAIN UNPERFORATED 6-INCH



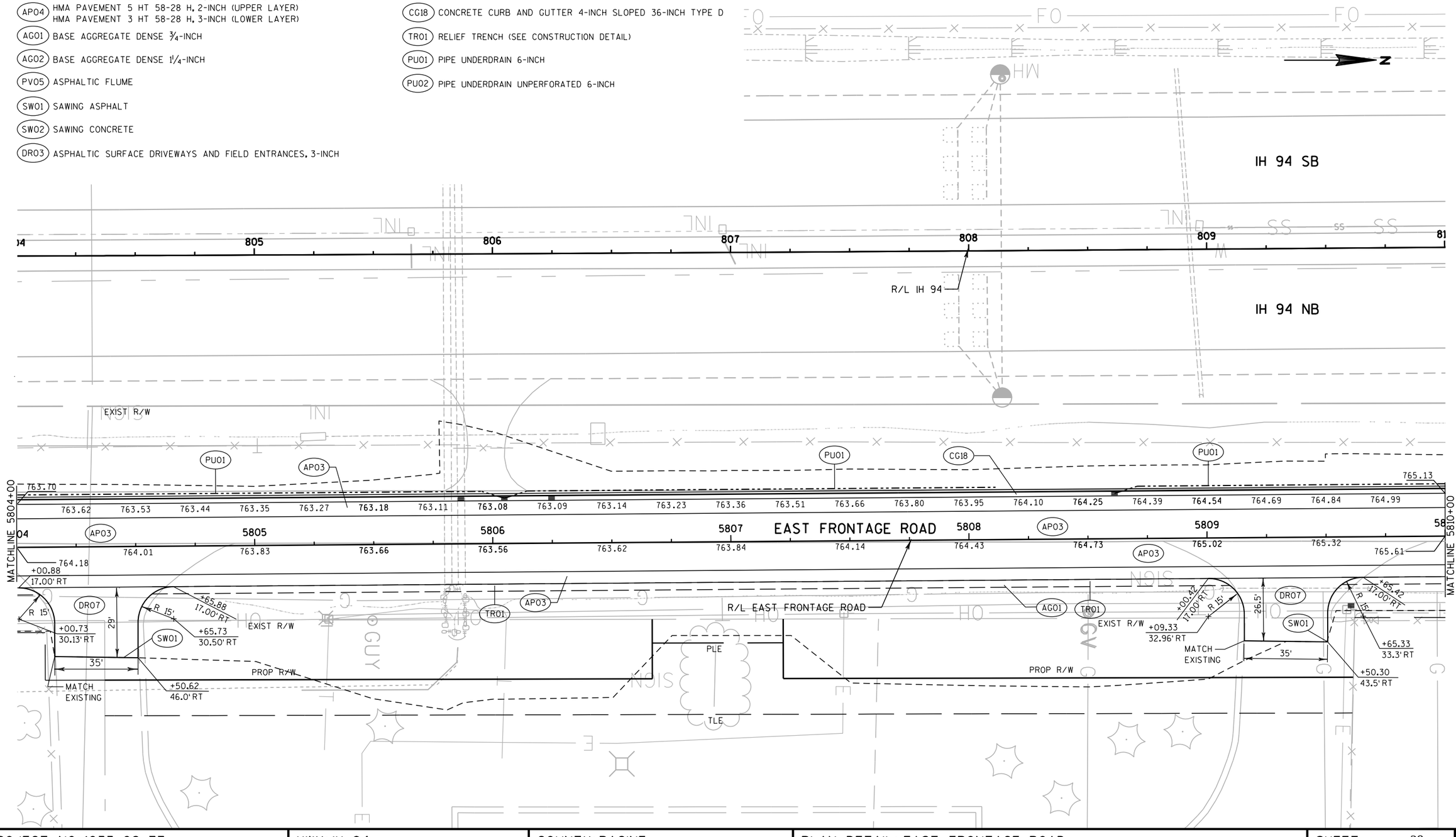
IH 94 SB



PROJECT NO: 1033-02-77	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL: EAST FRONTAGE ROAD	SHEET 27	E

PAVEMENT DETAIL LEGEND

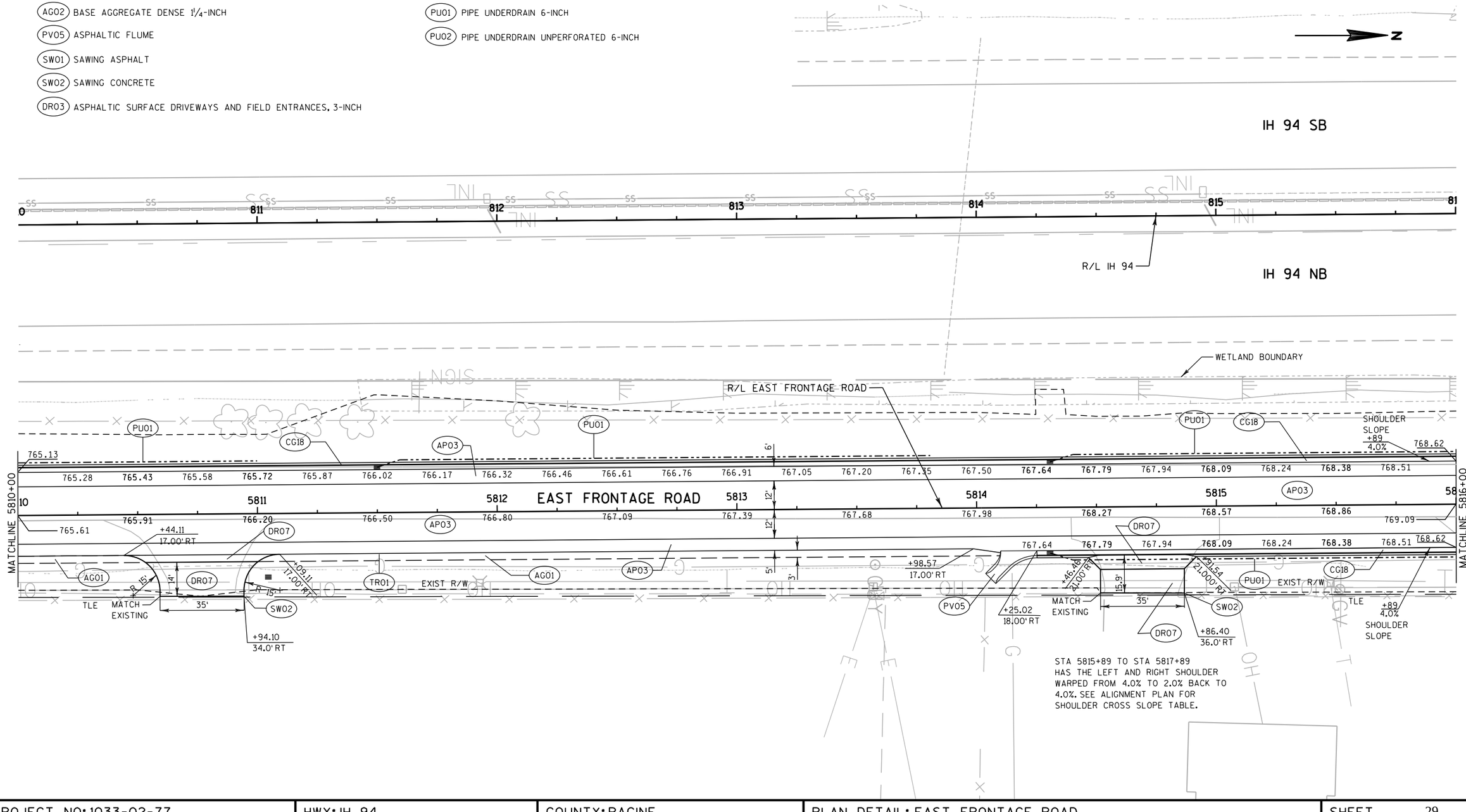
- (APO3) HMA PAVEMENT 4 LT 58-28 S, 2¼-INCH (UPPER LAYER)
  HMA PAVEMENT 3 LT 58-28 S, 3¼-INCH (LOWER LAYER)
- (APO4) HMA PAVEMENT 5 HT 58-28 H, 2-INCH (UPPER LAYER)
  HMA PAVEMENT 3 HT 58-28 H, 3-INCH (LOWER LAYER)
- (AGO1) BASE AGGREGATE DENSE ¾-INCH
- (AGO2) BASE AGGREGATE DENSE 1¼-INCH
- (PVO5) ASPHALTIC FLUME
- (SWO1) SAWING ASPHALT
- (SWO2) SAWING CONCRETE
- (DRO3) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- (DRO7) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 4-INCH
- (CG18) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- (TRO1) RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- (PUO1) PIPE UNDERDRAIN 6-INCH
- (PUO2) PIPE UNDERDRAIN UNPERFORATED 6-INCH



PROJECT NO: 1033-02-77	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL: EAST FRONTAGE ROAD	SHEET 28	E

PAVEMENT DETAIL LEGEND

- APO3 — HMA PAVEMENT 4 LT 58-28 S, 2¼-INCH (UPPER LAYER)
  HMA PAVEMENT 3 LT 58-28 S, 3¼-INCH (LOWER LAYER)
- APO4 — HMA PAVEMENT 5 HT 58-28 H, 2-INCH (UPPER LAYER)
  HMA PAVEMENT 3 HT 58-28 H, 3-INCH (LOWER LAYER)
- AGO1 — BASE AGGREGATE DENSE ¾-INCH
- AGO2 — BASE AGGREGATE DENSE 1¼-INCH
- PVO5 — ASPHALTIC FLUME
- SWO1 — SAWING ASPHALT
- SWO2 — SAWING CONCRETE
- DRO3 — ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- DRO7 — ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 4-INCH
- CG18 — CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- TRO1 — RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- PUO1 — PIPE UNDERDRAIN 6-INCH
- PUO2 — PIPE UNDERDRAIN UNPERFORATED 6-INCH



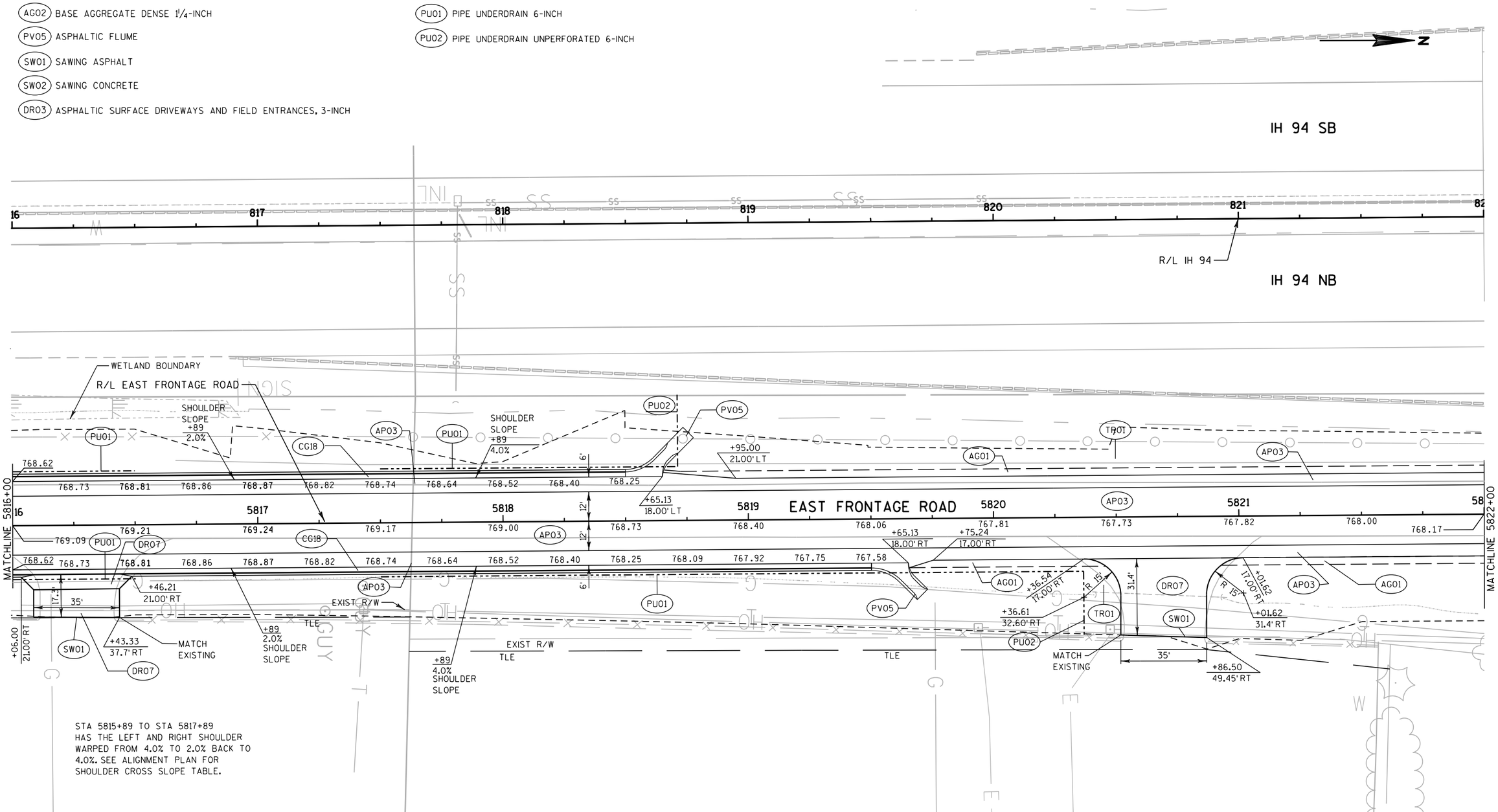
STA 5815+89 TO STA 5817+89 HAS THE LEFT AND RIGHT SHOULDER WARPED FROM 4.0% TO 2.0% BACK TO 4.0%. SEE ALIGNMENT PLAN FOR SHOULDER CROSS SLOPE TABLE.

PROJECT NO: 1033-02-77	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL: EAST FRONTAGE ROAD	SHEET 29	E

2

PAVEMENT DETAIL LEGEND

- APO3 — HMA PAVEMENT 4 LT 58-28 S, 2¼-INCH (UPPER LAYER)
  HMA PAVEMENT 3 LT 58-28 S, 3¼-INCH (LOWER LAYER)
- APO4 — HMA PAVEMENT 5 HT 58-28 H, 2-INCH (UPPER LAYER)
  HMA PAVEMENT 3 HT 58-28 H, 3-INCH (LOWER LAYER)
- AGO1 — BASE AGGREGATE DENSE ¾-INCH
- AGO2 — BASE AGGREGATE DENSE 1¼-INCH
- PVO5 — ASPHALTIC FLUME
- SWO1 — SAWING ASPHALT
- SWO2 — SAWING CONCRETE
- DRO3 — ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- DRO7 — ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 4-INCH
- CG18 — CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- TRO1 — RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- PUO1 — PIPE UNDERDRAIN 6-INCH
- PUO2 — PIPE UNDERDRAIN UNPERFORATED 6-INCH

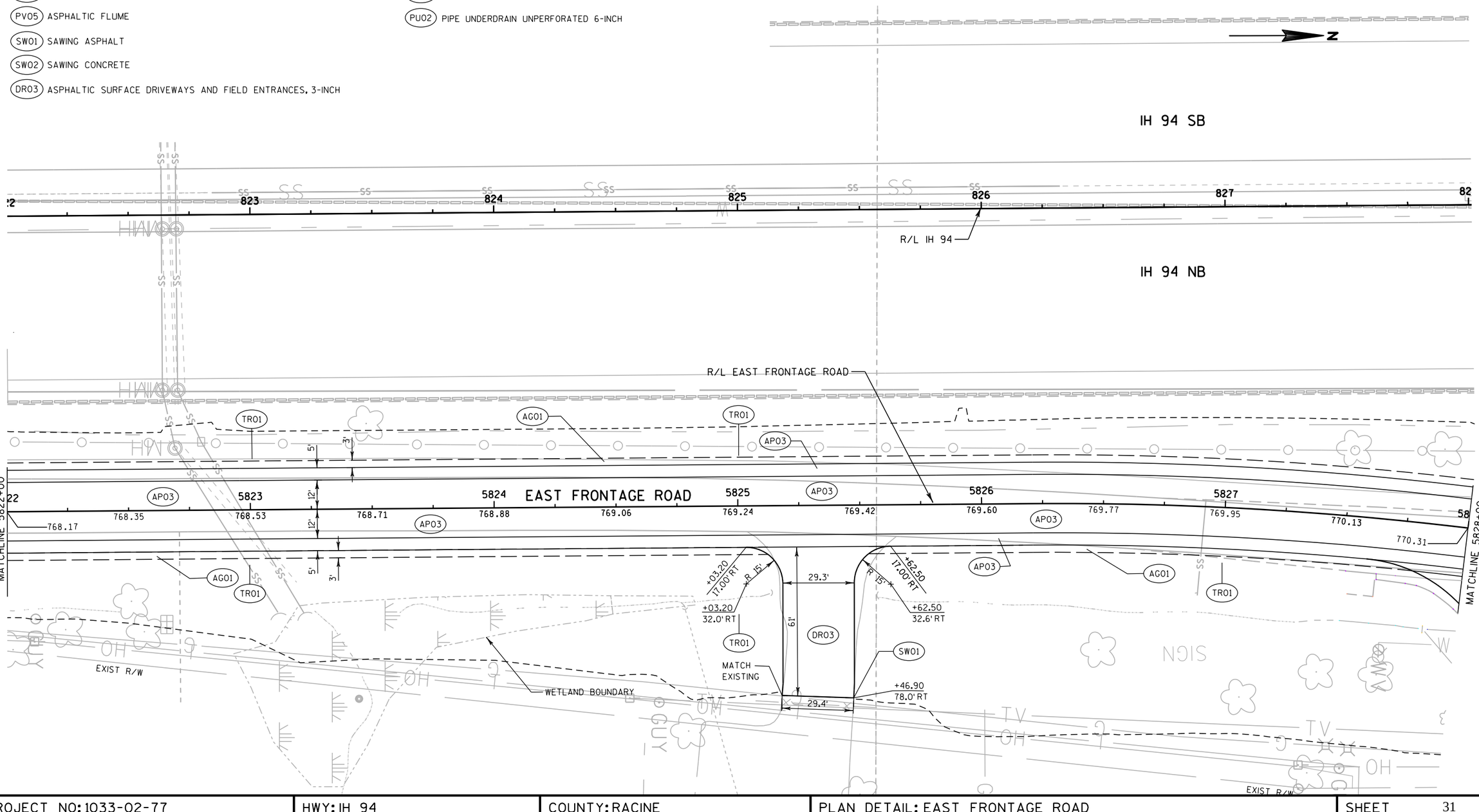


STA 5815+89 TO STA 5817+89
HAS THE LEFT AND RIGHT SHOULDER
WARPED FROM 4.0% TO 2.0% BACK TO
4.0%. SEE ALIGNMENT PLAN FOR
SHOULDER CROSS SLOPE TABLE.

PROJECT NO: 1033-02-77	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL: EAST FRONTAGE ROAD	SHEET 30	E

PAVEMENT DETAIL LEGEND

- APO3 — HMA PAVEMENT 4 LT 58-28 S, 2¼-INCH (UPPER LAYER)
  HMA PAVEMENT 3 LT 58-28 S, 3¼-INCH (LOWER LAYER)
- APO4 — HMA PAVEMENT 5 HT 58-28 H, 2-INCH (UPPER LAYER)
  HMA PAVEMENT 3 HT 58-28 H, 3-INCH (LOWER LAYER)
- AGO1 — BASE AGGREGATE DENSE ¾-INCH
- AGO2 — BASE AGGREGATE DENSE 1¼-INCH
- PVO5 — ASPHALTIC FLUME
- SWO1 — SAWING ASPHALT
- SWO2 — SAWING CONCRETE
- DRO3 — ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- DRO7 — ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 4-INCH
- CG18 — CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- TRO1 — RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- PUO1 — PIPE UNDERDRAIN 6-INCH
- PUO2 — PIPE UNDERDRAIN UNPERFORATED 6-INCH

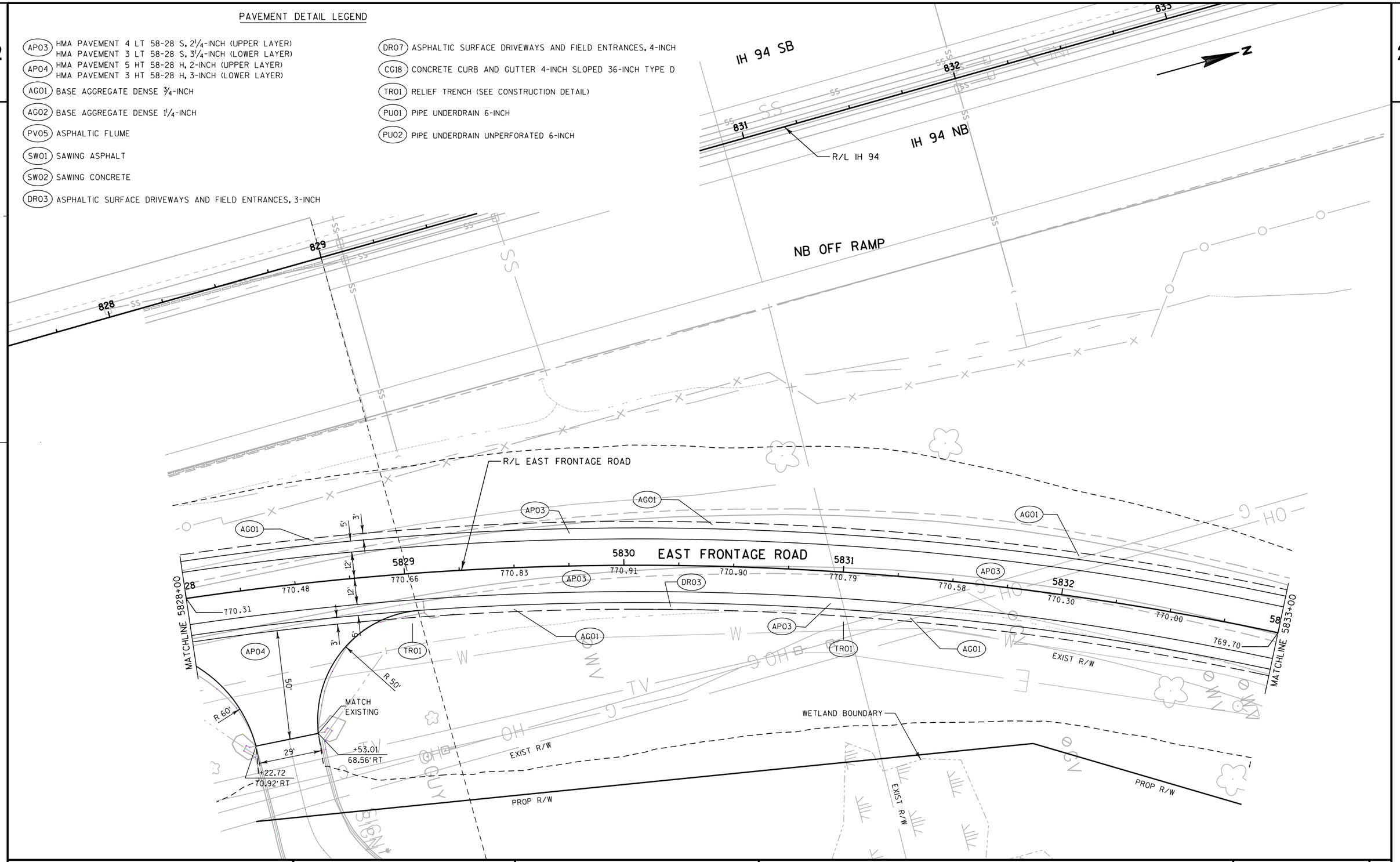


PROJECT NO: 1033-02-77	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL: EAST FRONTAGE ROAD	SHEET 31	E

FILE NAME : Z:\Racine\CADDS\14\14E\CDS\021207_pd.dgn PLOT DATE : 7/31/2017 PLOT BY : bjw PLOT NAME : PLOT SCALE : 1:40

PAVEMENT DETAIL LEGEND

- (APO3) HMA PAVEMENT 4 LT 58-28 S, 2¼-INCH (UPPER LAYER)
  HMA PAVEMENT 3 LT 58-28 S, 3¼-INCH (LOWER LAYER)
- (APO4) HMA PAVEMENT 5 HT 58-28 H, 2-INCH (UPPER LAYER)
  HMA PAVEMENT 3 HT 58-28 H, 3-INCH (LOWER LAYER)
- (AGO1) BASE AGGREGATE DENSE ¾-INCH
- (AGO2) BASE AGGREGATE DENSE 1¼-INCH
- (PVO5) ASPHALTIC FLUME
- (SWO1) SAWING ASPHALT
- (SWO2) SAWING CONCRETE
- (DRO3) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- (DRO7) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 4-INCH
- (CG18) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- (TRO1) RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- (PUO1) PIPE UNDERDRAIN 6-INCH
- (PUO2) PIPE UNDERDRAIN UNPERFORATED 6-INCH

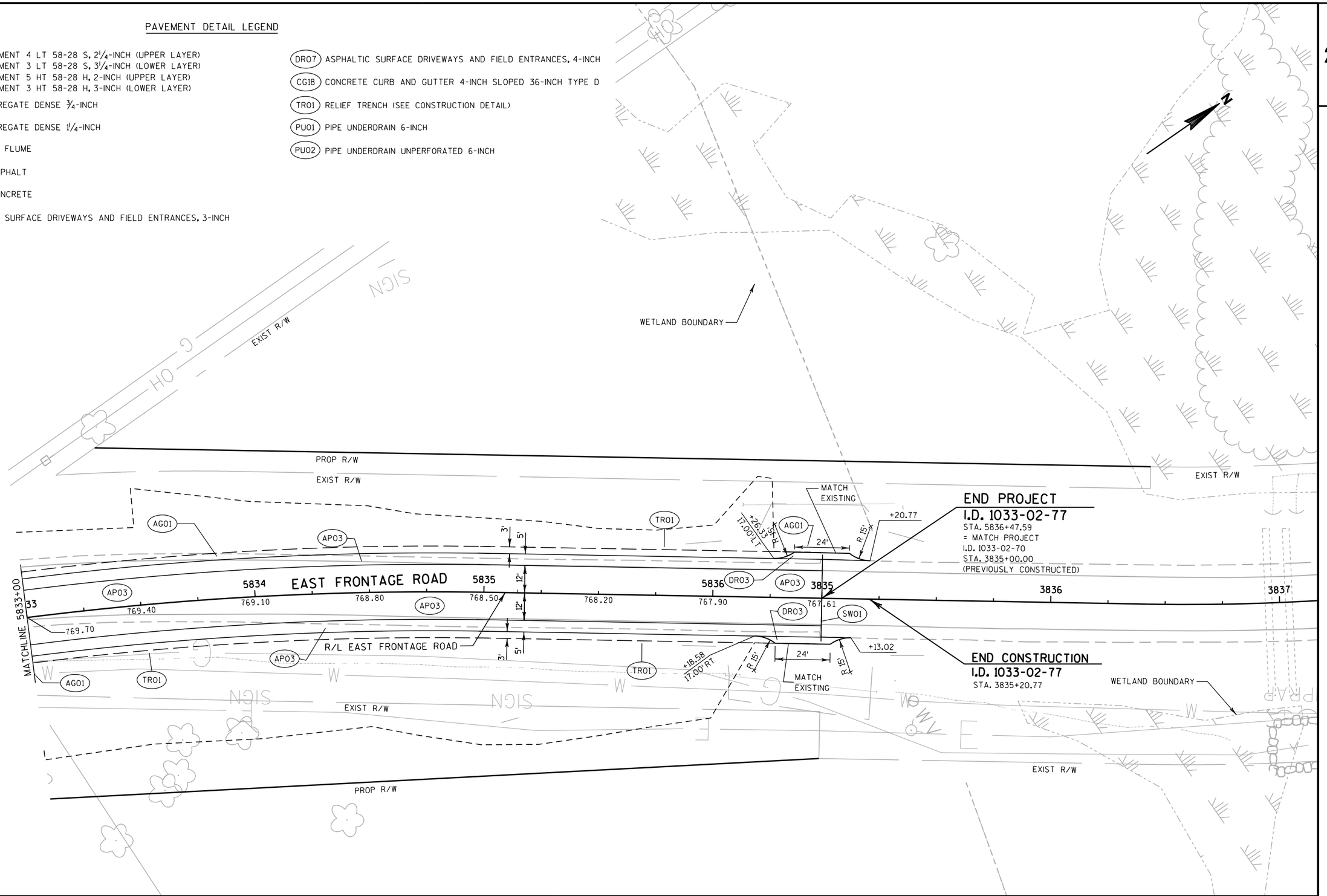


PROJECT NO: 1033-02-77	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL: EAST FRONTAGE ROAD	SHEET 32	E

FILE NAME : Z:\Racine\CADDS\14\14E\CDS\021208_pd.dgn PLOT DATE : 7/31/2017 PLOT BY : bjw PLOT NAME : PLOT SCALE : 1:40

PAVEMENT DETAIL LEGEND

- (AP03) HMA PAVEMENT 4 LT 58-28 S, 2¼-INCH (UPPER LAYER)
  HMA PAVEMENT 3 LT 58-28 S, 3¼-INCH (LOWER LAYER)
- (AP04) HMA PAVEMENT 5 HT 58-28 H, 2-INCH (UPPER LAYER)
  HMA PAVEMENT 3 HT 58-28 H, 3-INCH (LOWER LAYER)
- (AG01) BASE AGGREGATE DENSE ¾-INCH
- (AG02) BASE AGGREGATE DENSE 1¼-INCH
- (PV05) ASPHALTIC FLUME
- (SW01) SAWING ASPHALT
- (SW02) SAWING CONCRETE
- (DR03) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- (DR07) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 4-INCH
- (CG18) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- (TR01) RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- (PU01) PIPE UNDERDRAIN 6-INCH
- (PU02) PIPE UNDERDRAIN UNPERFORATED 6-INCH



PROJECT NO: 1033-02-77	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL: EAST FRONTAGE ROAD	SHEET 33	E

FILE NAME : Z:\Racine\CADDS\14\14E\CDS\021209_pd.dgn PLOT DATE : 7/31/2017 PLOT BY : bjw PLOT NAME : PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

NOTES:
CONSTRUCT DITCH ALONG THE EAST FRONTAGE ROAD MAINTAINING A SINGLE LANE OF TRAFFIC IN BOTH DIRECTIONS AT ALL TIMES. SEE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY"

SEE CROSS SECTIONS FOR PROPOSED DITCH ELEVATIONS

INSTALL EROSION CONTROL ACCORDING TO THE STANDARD DETAIL DRAWINGS. PLACE EROSION MAT ON ALL DISTURBED SLOPES, PLACE CULVERT PIPE CHECKS AT STORM SEWER INLETS AT STA 5103+50 RT AND 5107+00 RT, PLACE TEMPORARY DITCH CHECKS AT STA 5105+50, 30' RT AND STA 5106+75, 47' RT

PERMITTED WETLAND IMPACTS

N

SIGN

SIGN

5103 5104 5105 5106 5107 5108 3109

EAST FRONTAGE ROAD

SLOPE INTERCEPT

WETLAND BOUNDARY

R/W

ABANDON EXISTING DRIVEWAY CULVERT

FILL IN DITCH TO SLOPE TO THE WEST FROM STA 5106+00 TO STA 5106+35

W-X
0.013 AC

ABANDON EXISTING DRIVEWAY CULVERT

R/W

BELL ROAD

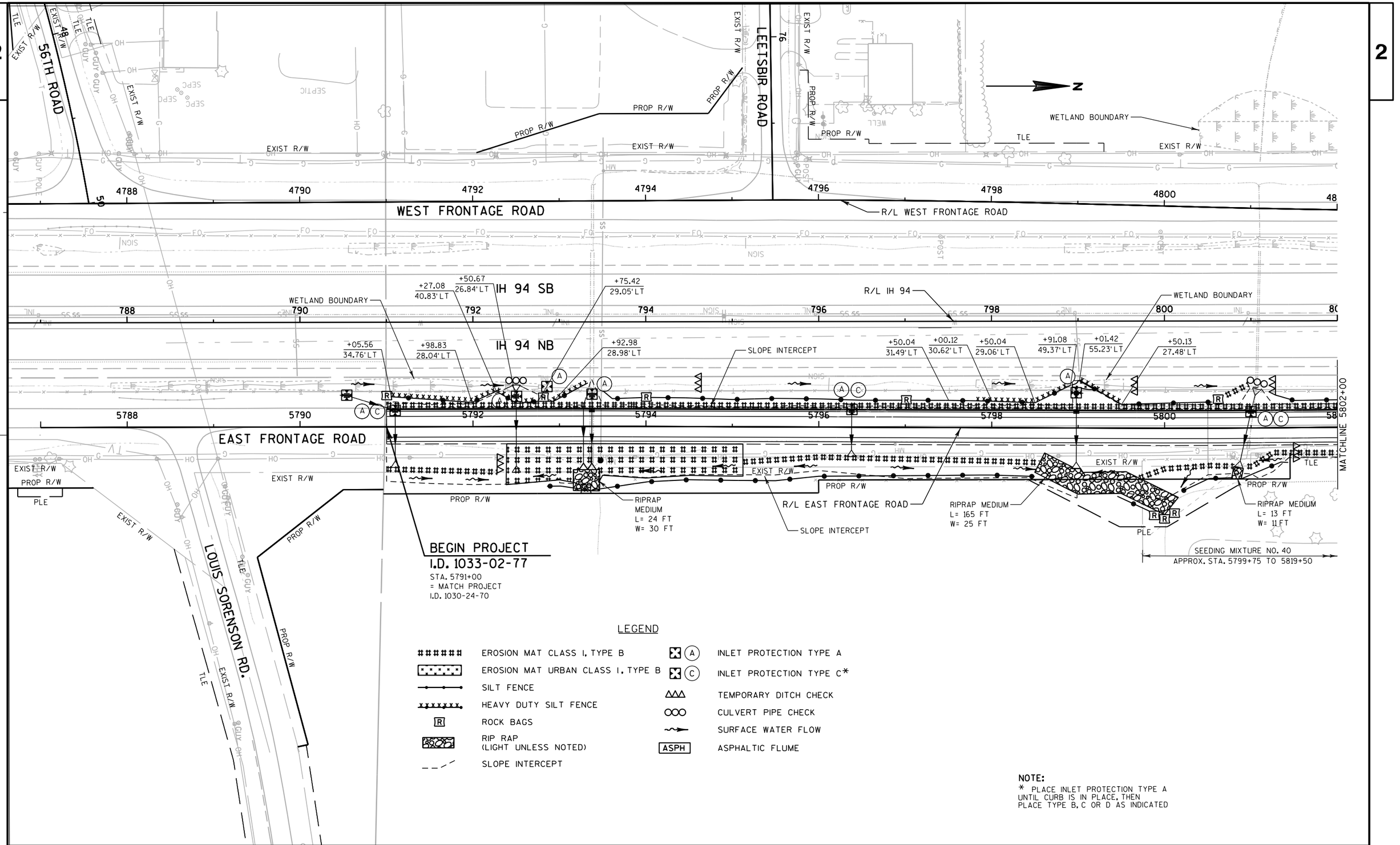
RUINS

PROJECT NO: 1033-02-77	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL: CTH K TO CTH G EAST FRONTAGE ROAD	SHEET 34	E

FILE NAME : Z:\Racine\CADDS\18\18E-drainage\021205_pd.dgn PLOT DATE : 7/31/2017 PLOT BY : bjw PLOT NAME : PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

2



LEGEND

- EROSION MAT CLASS I, TYPE B
- EROSION MAT URBAN CLASS I, TYPE B
- SILT FENCE
- HEAVY DUTY SILT FENCE
- ROCK BAGS
- RIP RAP (LIGHT UNLESS NOTED)
- SLOPE INTERCEPT
- INLET PROTECTION TYPE A
- INLET PROTECTION TYPE C*
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- ASPHALTIC FLUME

NOTE:
* PLACE INLET PROTECTION TYPE A UNTIL CURB IS IN PLACE, THEN PLACE TYPE B, C OR D AS INDICATED

PROJECT NO: 1033-02-77	HWY: IH 94	COUNTY: RACINE	EROSION CONTROL: EAST FRONTAGE ROAD	SHEET 35	E

2

WETLAND BOUNDARY

EXIST R/W

EXIST R/W

EXIST R/W

WEST FRONTAGE ROAD

R/L WEST FRONTAGE ROAD

IH 94 SB

IH 94 NB

R/L IH 94

+41.56
47.88'LT

+54.01
36.22'LT

+58.11
49.95'LT

+45.16
36.28'LT

+51.11
42.79'LT

WETLAND BOUNDARY

SLOPE INTERCEPT

EXIST R/W

EAST FRONTAGE ROAD

MATCHLINE 5802+00

MATCHLINE 5814+00

TLE

PROP R/W

PLE

PROP R/W

TLE

RIPRAP MEDIUM
L= 11 FT
W= 28 FT

PRIVATE STORM
SEWER

RIPRAP
L= 6 FT
W= 6 FT

R/L EAST FRONTAGE ROAD

SLOPE INTERCEPT

SEEDING MIXTURE NO. 40
APPROX. STA. 5799+75 TO 5819+50

LEGEND

#######	EROSION MAT CLASS I, TYPE B	A	INLET PROTECTION TYPE A
	EROSION MAT URBAN CLASS I, TYPE B	C	INLET PROTECTION TYPE C*
	SILT FENCE	△△△	TEMPORARY DITCH CHECK
xxxxxxx	HEAVY DUTY SILT FENCE	○○○	CULVERT PIPE CHECK
R	ROCK BAGS		SURFACE WATER FLOW
	RIP RAP (LIGHT UNLESS NOTED)	ASPH	ASPHALTIC FLUME
	SLOPE INTERCEPT		

NOTE:
* PLACE INLET PROTECTION TYPE A UNTIL CURB IS IN PLACE, THEN PLACE TYPE B, C OR D AS INDICATED

google overhead ATT

PROJECT NO: 1033-02-77	HWY: IH 94	COUNTY: RACINE	EROSION CONTROL: EAST FRONTAGE ROAD	SHEET 36	E

2

N

GRANDVIEW PARKWAY

EXIST R/W

WEST FRONTAGE ROAD

R/L WEST FRONTAGE ROAD

IH 94 SB

IH 94 NB

R/L IH 94

WETLAND BOUNDARY

+05.85
39.82' LT

SLOPE INTERCEPT

RIPRAP
L= 6 FT
W= 6 FT

EAST FRONTAGE ROAD

MATCHLINE 5814+00

MATCHLINE 5828+00

R/L EAST FRONTAGE ROAD

RIPRAP
L= 6 FT
W= 6 FT

SLOPE INTERCEPT

SEEDING MIXTURE NO. 40
APPROX. STA. 5799+75 TO 5819+50

+50.07
51.43' RT

+10.00
57.62' RT

+20.00
62.15' RT

+01.25
63.58' RT

+50.00
59.90' RT

WETLAND BOUNDARY

RIPRAP MEDIUM
L= 102 FT
W= 11 FT

RIPRAP MEDIUM
L= 20 FT
W= 11 FT

EXIST R/W

SEEDING MIXTURE NO. 40
APPROX. STA. 5823+75 TO 5829+50

HOODS CREEK
INTERMITTENT
STREAM CROSSING

LEGEND

	EROSION MAT CLASS I, TYPE B	(A)	INLET PROTECTION TYPE A
	EROSION MAT URBAN CLASS I, TYPE B	(C)	INLET PROTECTION TYPE C*
	SILT FENCE		TEMPORARY DITCH CHECK
	HEAVY DUTY SILT FENCE		CULVERT PIPE CHECK
R	ROCK BAGS		SURFACE WATER FLOW
	RIP RAP (LIGHT UNLESS NOTED)	ASPH	ASPHALTIC FLUME
	SLOPE INTERCEPT		

NOTE:
* PLACE INLET PROTECTION TYPE A UNTIL CURB IS IN PLACE, THEN PLACE TYPE B, C OR D AS INDICATED

PROJECT NO: 1033-02-77	HWY: IH 94	COUNTY: RACINE	EROSION CONTROL: EAST FRONTAGE ROAD	SHEET 37	E

2

LEGEND

- EROSION MAT CLASS I, TYPE B
- EROSION MAT URBAN CLASS I, TYPE B
- SILT FENCE
- HEAVY DUTY SILT FENCE
- ROCK BAGS
- RIP RAP (LIGHT UNLESS NOTED)
- SLOPE INTERCEPT
- INLET PROTECTION TYPE A
- INLET PROTECTION TYPE C*
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- ASPHALTIC FLUME

WEST FRONTAGE ROAD

IH 94 SB

IH 94 NB

R/L WEST FRONTAGE ROAD

R/L IH 94

EAST FRONTAGE ROAD

R/L EAST FRONTAGE ROAD

EXIST R/W

PROP R/W

SLOPE INTERCEPT

+56.44 45.84'LT

+00.58 41.84'LT

+52.64 54.82'LT

+00.05 31.71'LT

+59.72 31.06'LT

+85.94 62.92'RT

+71.26 79.50'RT

+18.15 71.29'RT

WETLAND BOUNDARY

RIPRAP L= 19 FT W= 8 FT

SEEDING MIXTURE NO. 40 APPROX. STA. 5823+75 TO 5829+50

MATCHLINE 5828+00

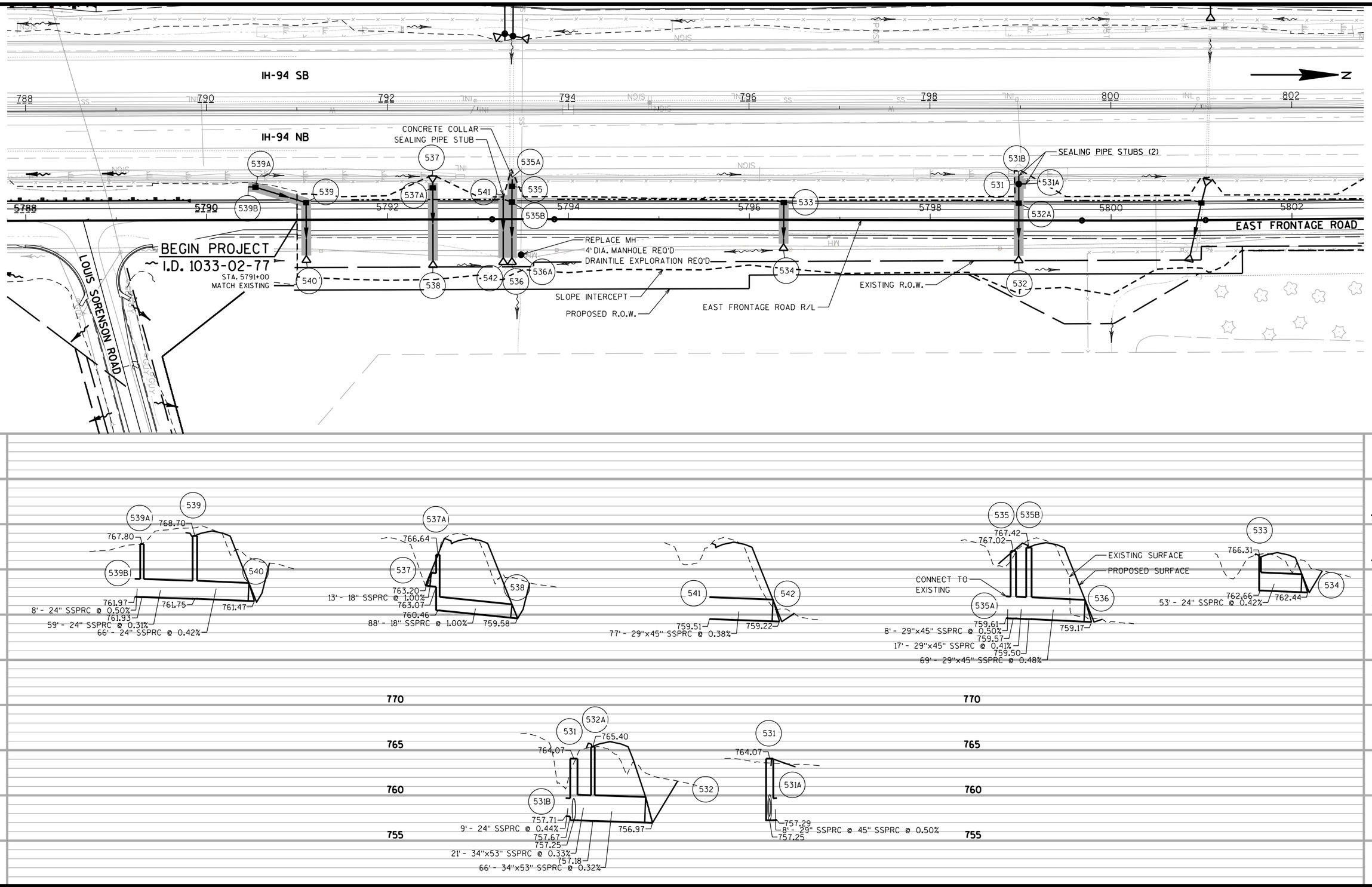
END PROJECT I.D. 1033-02-77

STA. 5836+47.59 = MATCH PROJECT I.D. 1033-02-70 STA. 3835+00.00 (PREVIOUSLY CONSTRUCTED)

N

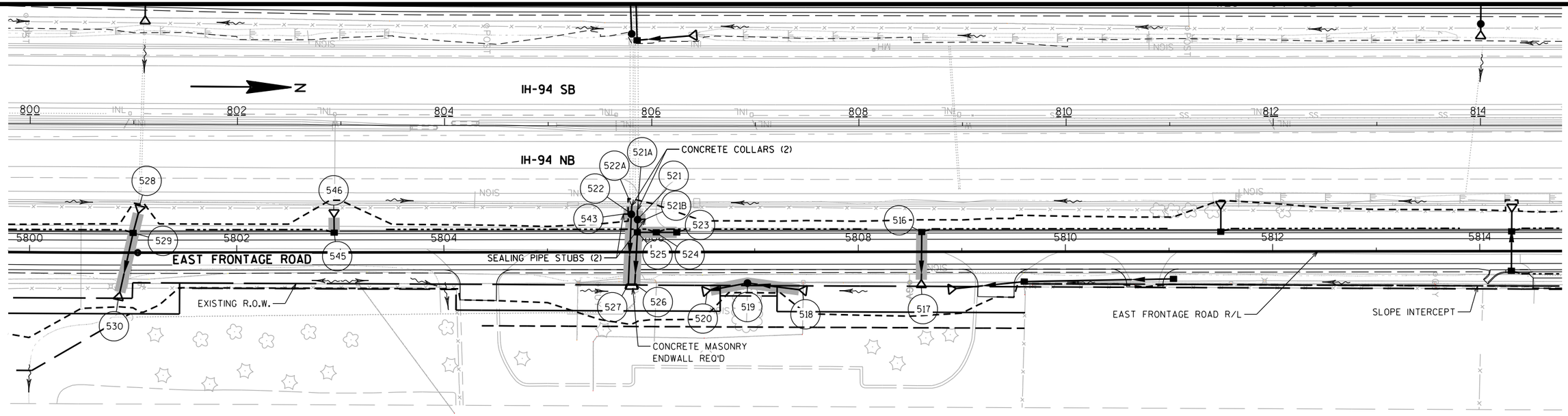
NOTE:
* PLACE INLET PROTECTION TYPE A UNTIL CURB IS IN PLACE, THEN PLACE TYPE B, C OR D AS INDICATED

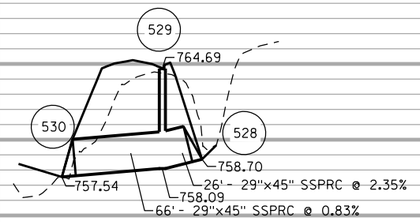
PROJECT NO: 1033-02-77	HWY: IH 94	COUNTY: RACINE	EROSION CONTROL: EAST FRONTAGE ROAD	SHEET 38	E

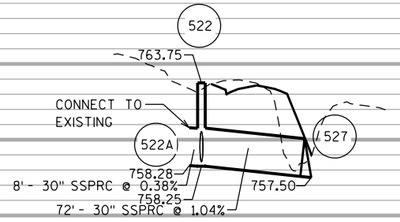


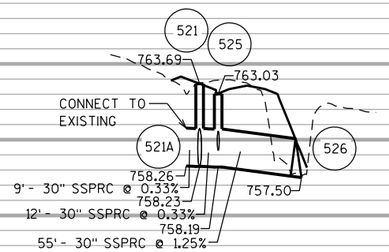
PROJECT NO: 1033-02-77	HWY: IH 94	COUNTY: RACINE	STORM SEWER: SEG. 14 EFR	SHEET 39 E

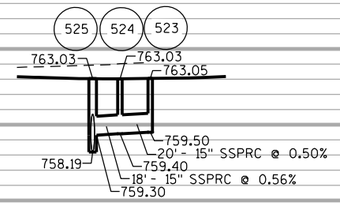
FILE NAME : S:\2015\WisDOT\I-94_N-S\CADD files\CDS\SSE_IH-94_14EFR_SS1.dgn PLOT DATE : 11/28/2016 PLOT BY : Harlan PLOT NAME : _____ PLOT SCALE : 1:100

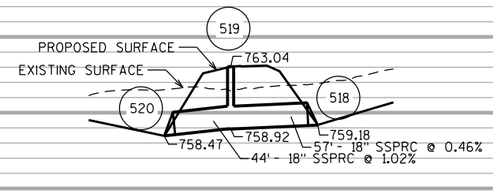


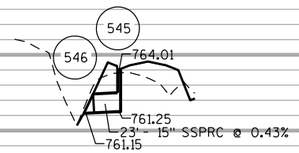


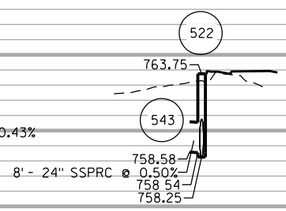


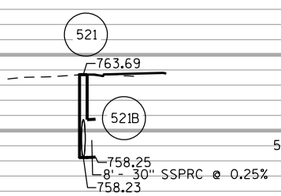


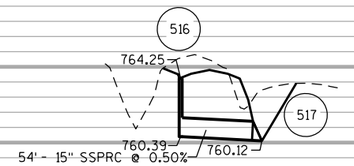






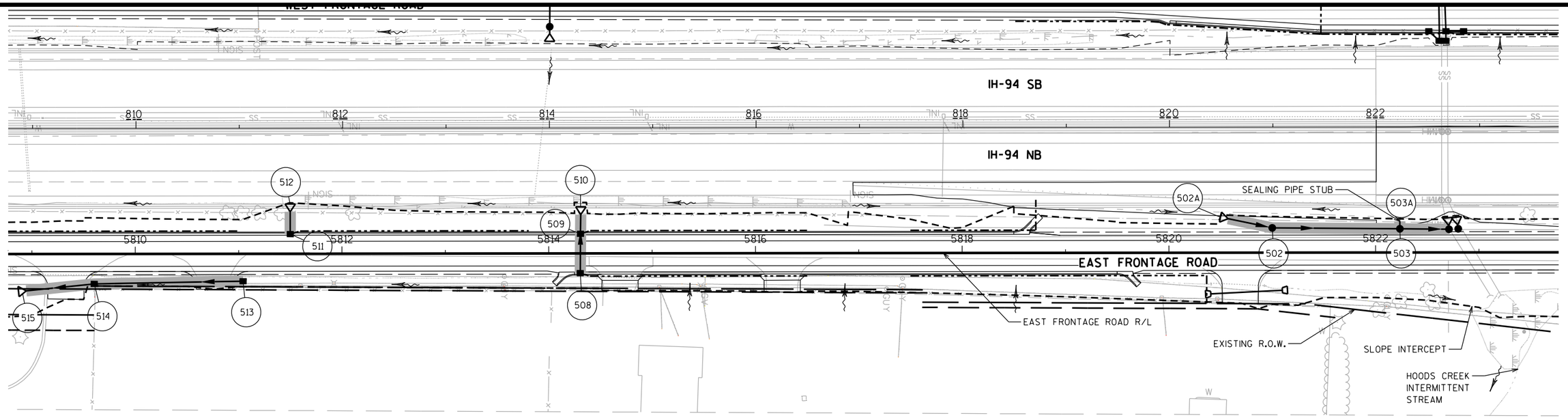


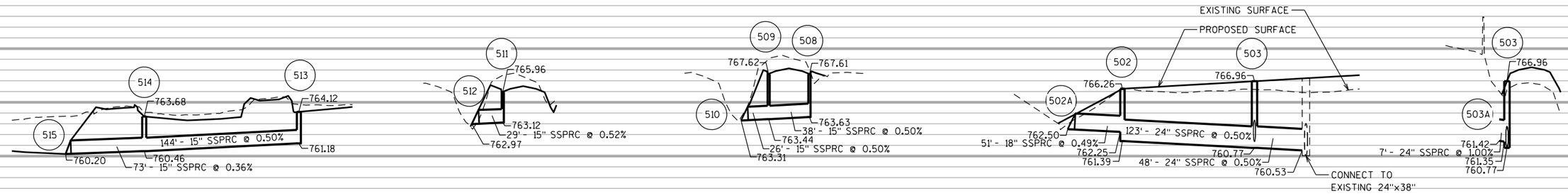




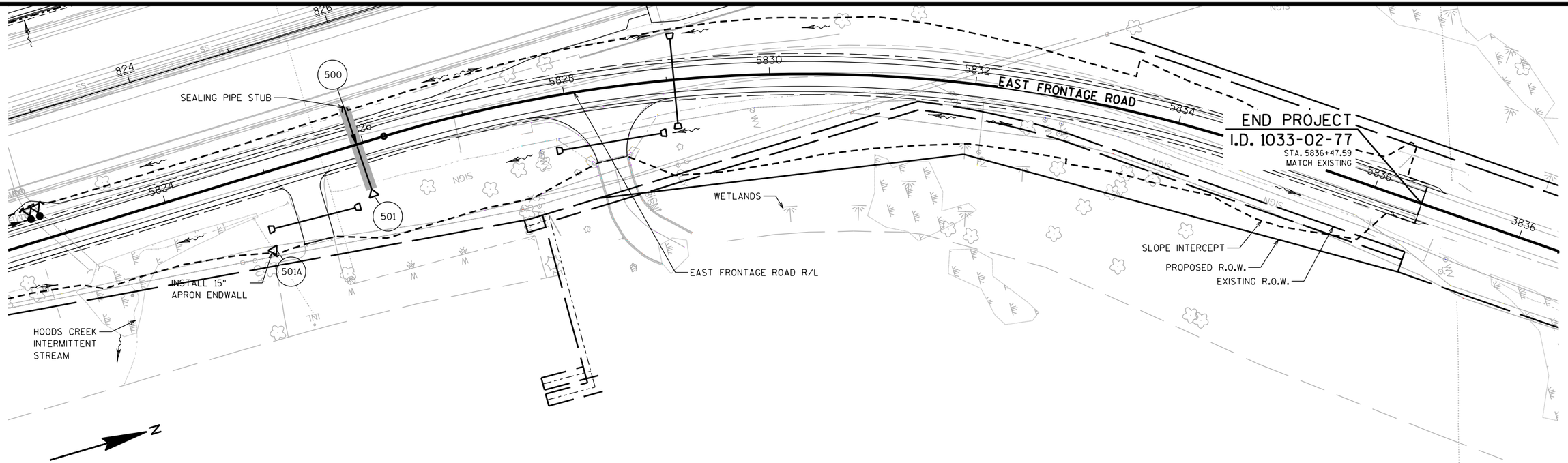
765 760 755 750 770 765 745 740 735 730

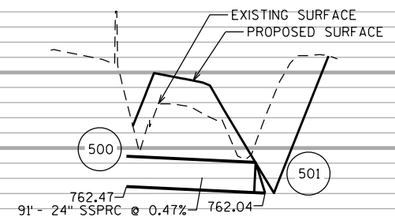
PROJECT NO: 1033-02-77	HWY: IH 94	COUNTY: RACINE	STORM SEWER: SEG. 14 EFR	SHEET 40	E





PROJECT NO: 1033-02-77	HWY: IH 94	COUNTY: RACINE	STORM SEWER: SEG. 14 EFR	SHEET 41 E





PROJECT NO: 1033-02-77	HWY: IH 94	COUNTY: RACINE	STORM SEWER: SEG. 14 EFR	SHEET 42 E

FILE NAME : S:\2015\WisDOT\I-94_N-S\CADD files\CDS\SSE_IH-94_14EFR_SS4.dgn PLOT DATE : 11/28/2016 PLOT BY : Harlan PLOT NAME : _____ PLOT SCALE : 1:100

2

56TH ROAD

LEETSBIR ROAD

R/L WEST FRONTAGE ROAD

WEST FRONTAGE ROAD

IH 94 SB

IH 94 NB

R/L IH 94

EAST FRONTAGE ROAD

R/L EAST FRONTAGE ROAD

MATCHLINE 5800+00

LOUIS SORENSON RD.

BEGIN PROJECT
I.D. 1033-02-77
STA. 5791+00
= MATCH PROJECT
I.D. 1030-24-70

NOTE: NO EXISTING SIGNS ON THIS SHEET

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE OR BANDED TO UTILITY POLE
- (XRXX) DENOTES REMOVING SIGN NUMBER
- (XMXX) DENOTES MOVING SIGN NUMBER
- ESTR EXISTING SIGN TO REMAIN

NOTE

CONTRACTOR SHALL NOT REMOVE EXISTING SIGNING UNTIL THE ROADWAY IS READY FOR NEW SIGNING SO THERE IS NOT A LACK OF PROPER SIGNING WHEN THE ROADWAY IS OPEN TO TRAFFIC.

PROJECT NO: 1033-02-77	HWY: IH 94	COUNTY: RACINE	EXISTING SIGNING: EAST FRONTAGE ROAD	SHEET 43	E

FILE NAME : Z:\Racine\CADDS\14\14E\CDS\023201_es.dgn PLOT DATE : 7/31/2017 PLOT BY : bjw PLOT NAME : PLOT SCALE : 1:100

2

N

R/L WEST FRONTAGE ROAD

WEST FRONTAGE ROAD

IH 94 SB

IH 94 NB

R/L IH 94

EAST FRONTAGE ROAD

R/L EAST FRONTAGE ROAD

MATCHLINE 5800+00

MATCHLINE 5815+00

DO NOT ENTER

EXCEPT MAINTENANCE AND POLICE AUTHORIZED VEHICLES

REMOVE

2R01

2R02

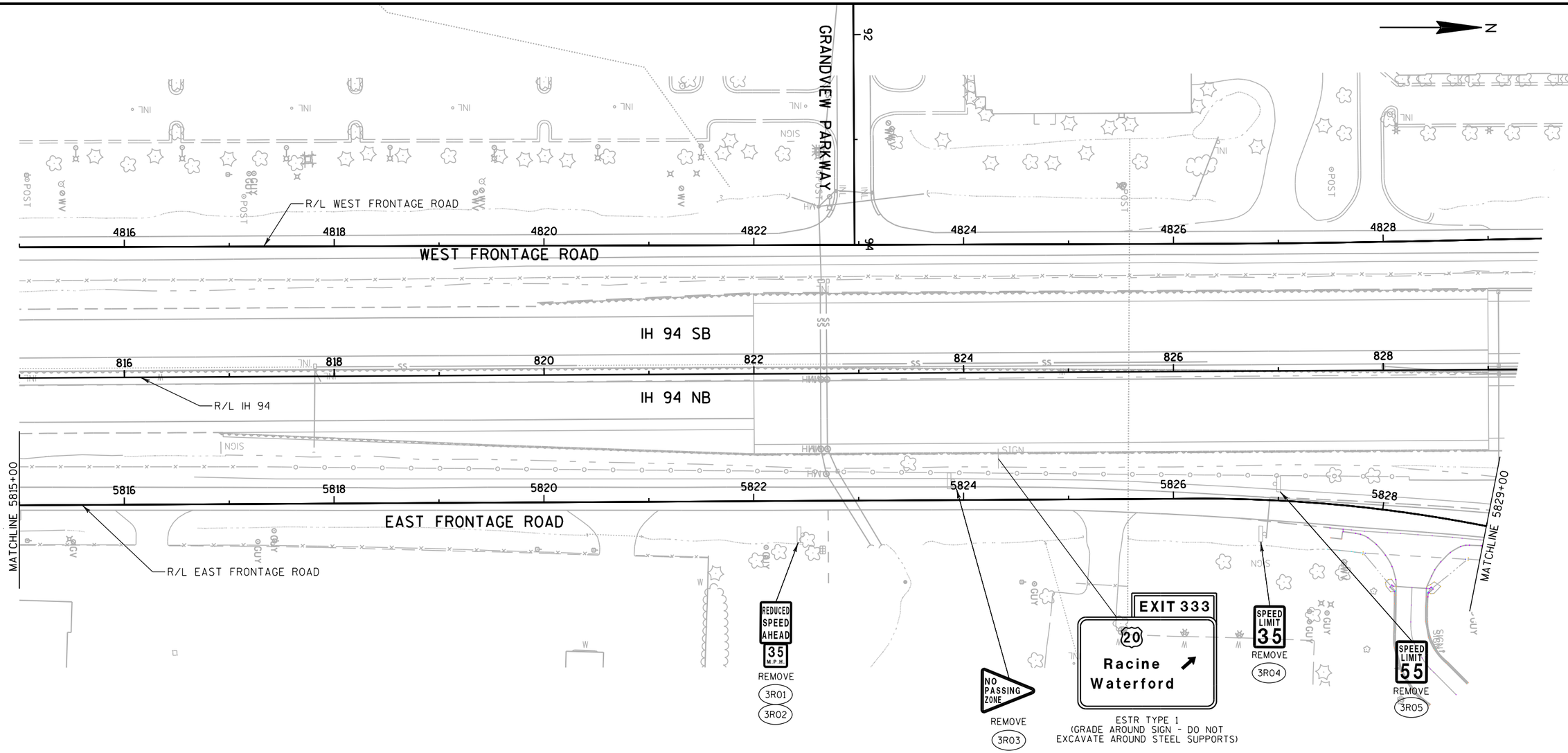
LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE OR BANDED TO UTILITY POLE
- (XRXX) DENOTES REMOVING SIGN NUMBER
- (XMXX) DENOTES MOVING SIGN NUMBER
- ESTR EXISTING SIGN TO REMAIN

NOTE

CONTRACTOR SHALL NOT REMOVE EXISTING SIGNING UNTIL THE ROADWAY IS READY FOR NEW SIGNING SO THERE IS NOT A LACK OF PROPER SIGNING WHEN THE ROADWAY IS OPEN TO TRAFFIC.

PROJECT NO: 1033-02-77	HWY: IH 94	COUNTY: RACINE	EXISTING SIGNING: EAST FRONTAGE ROAD	SHEET 44	E



LEGEND

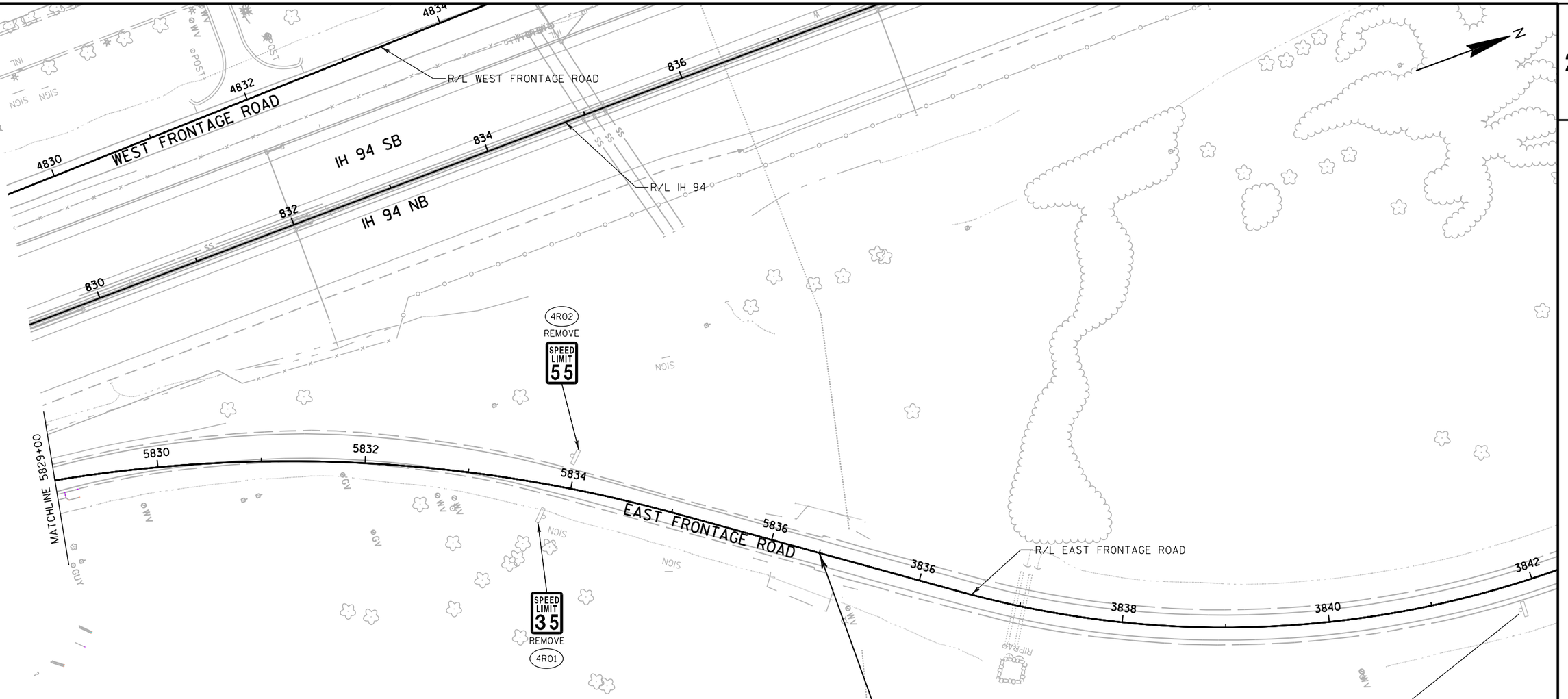
- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE OR BANDED TO UTILITY POLE
- (XRXX) DENOTES REMOVING SIGN NUMBER
- (XMXX) DENOTES MOVING SIGN NUMBER
- ESTR EXISTING SIGN TO REMAIN

NOTE

CONTRACTOR SHALL NOT REMOVE EXISTING SIGNING UNTIL THE ROADWAY IS READY FOR NEW SIGNING SO THERE IS NOT A LACK OF PROPER SIGNING WHEN THE ROADWAY IS OPEN TO TRAFFIC.

PROJECT NO: 1033-02-77	HWY: IH 94	COUNTY: RACINE	EXISTING SIGNING: EAST FRONTAGE ROAD	SHEET 45	E

2



LEGEND

	EXISTING SIGN MOUNTED ON POST(S)
	EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE OR BANDED TO UTILITY POLE
XRXX	DENOTES REMOVING SIGN NUMBER
XMXX	DENOTES MOVING SIGN NUMBER
ESTR	EXISTING SIGN TO REMAIN

NOTE

CONTRACTOR SHALL NOT REMOVE EXISTING SIGNING UNTIL THE ROADWAY IS READY FOR NEW SIGNING SO THERE IS NOT A LACK OF PROPER SIGNING WHEN THE ROADWAY IS OPEN TO TRAFFIC.

NOTE: PLACED IN PROJECT I.D. 1033-02-70, APPROXIMATELY LOCATED AT STA. 3846+00. MOVE AS NEEDED BASED ON "LOCATING NO PASSING ZONE" ITEM

PROJECT NO: 1033-02-77	HWY: IH 94	COUNTY: RACINE	EXISTING SIGNING: EAST FRONTAGE ROAD	SHEET 46	E

2

56TH ROAD

LEETSBIR ROAD

R/L WEST FRONTAGE ROAD

WEST FRONTAGE ROAD

IH 94 SB

IH 94 NB

R/L IH 94

R/L EAST FRONTAGE ROAD

EAST FRONTAGE ROAD

LOUIS SORENSON ROAD

4786 4788 4790 4792 4794 4796 4798

786 788 790 792 794 796 798

5788 5790 5792 5794 5796 5798

MATCHLINE 5800+00

BEGIN PROJECT
I.D. 1033-02-77
STA. 5791+00
= MATCH PROJECT
I.D. 1030-24-70

SPEED LIMIT 55
R2-1
24" X 30"
1P01

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POST(S)
- DELINEATOR (DUAL DIRECTION WHITE)
- XMXX — DENOTES MOVING SIGN NUMBER
- XPXX — DENOTES PROPOSED SIGN NUMBER

PROJECT NO: 1033-02-77	HWY: IH 94	COUNTY: RACINE	PERMANENT SIGNING: EAST FRONTAGE ROAD	SHEET 47	E

FILE NAME : Z:\Racine\CADDS\14\14E\CDS\023205_PS.dgn PLOT DATE : 7/31/2017 PLOT BY : bjw PLOT NAME : PLOT SCALE : 1:100

2

N

4802 4804 4806 4808 4810 4812 4814

WEST FRONTAGE ROAD

R/L WEST FRONTAGE ROAD

IH 94 SB

802 804 806 808 810 812 814

R/L IH 94

IH 94 NB

MATCHLINE 5800+00

5802 5804 5806 5808 5810 5812 5814

EAST FRONTAGE ROAD

R/L EAST FRONTAGE ROAD

MATCHLINE 5815+00

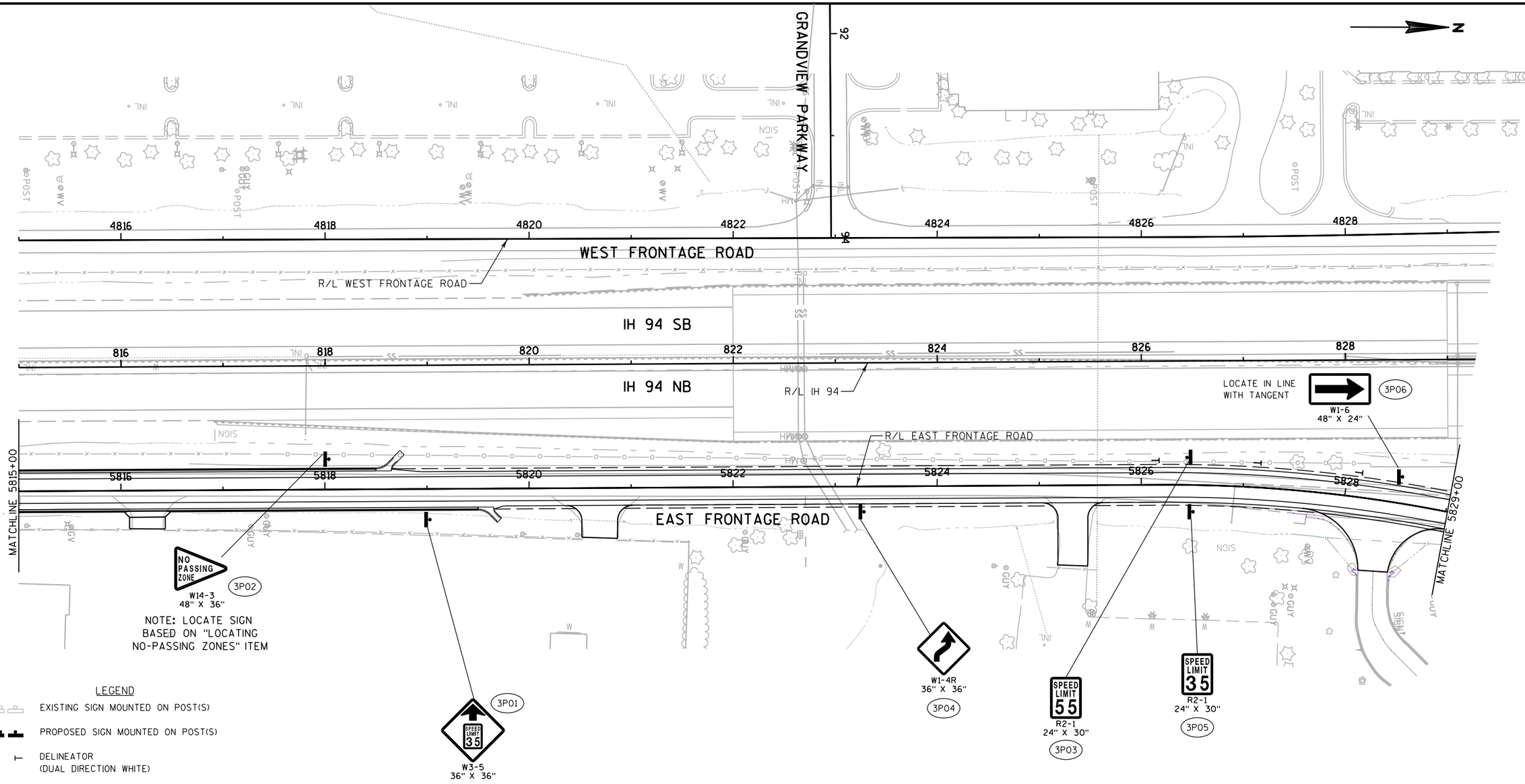
LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POST(S)
- DELINEATOR (DUAL DIRECTION WHITE)
- XMXX — DENOTES MOVING SIGN NUMBER
- XPXX — DENOTES PROPOSED SIGN NUMBER

NOTE: NO PERMANENT SIGNS ON THIS SHEET

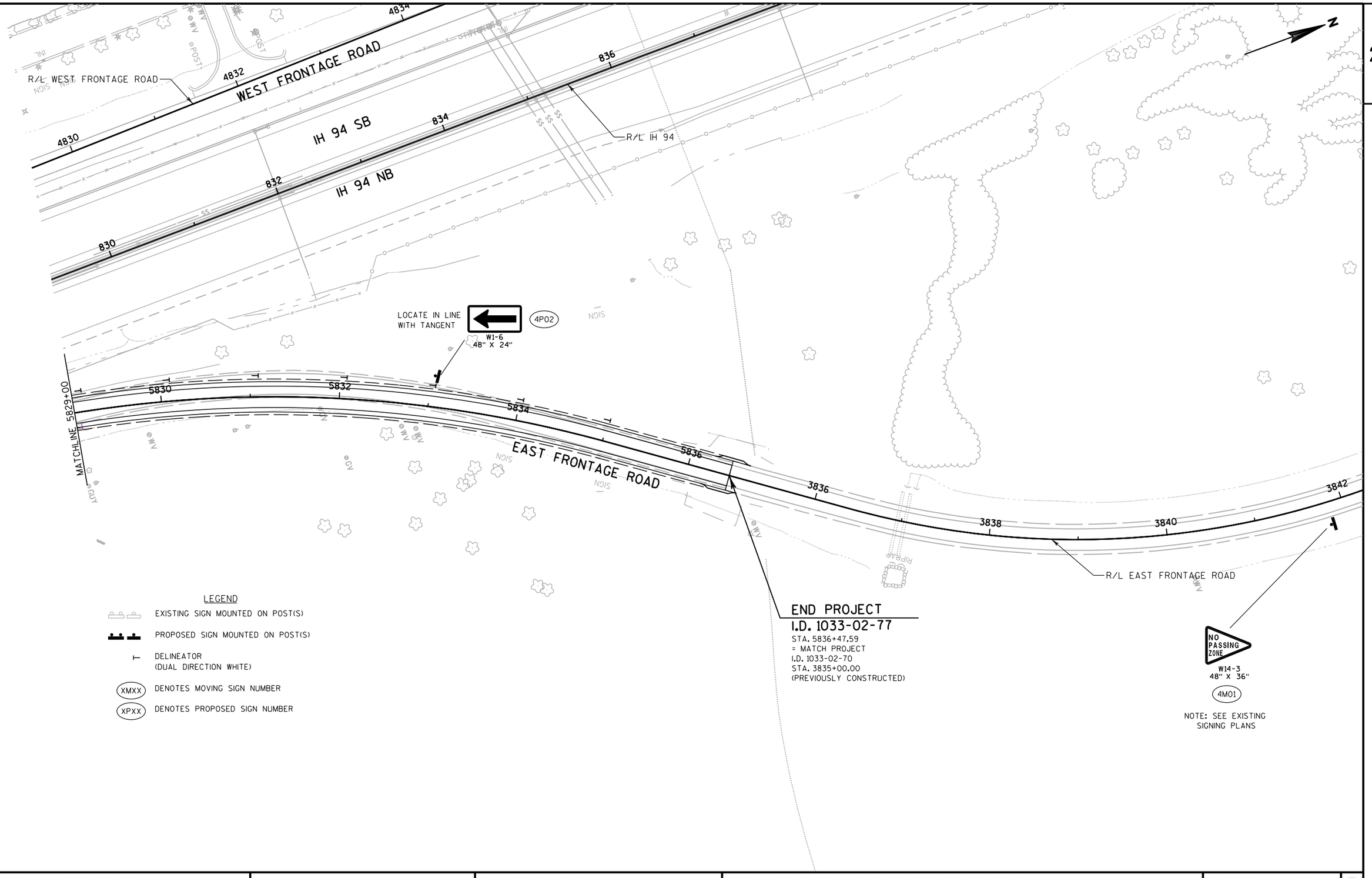
PROJECT NO: 1033-02-77	HWY: IH 94	COUNTY: RACINE	PERMANENT SIGNING: EAST FRONTAGE ROAD	SHEET 48	E

FILE NAME : Z:\Racine\CADDS\14\14E\CDS\023206_PS.dgn PLOT DATE : 7/31/2017 PLOT BY : bjw PLOT NAME : PLOT SCALE : 1:100



PROJECT NO: 1033-02-77	HWY: IH 94	COUNTY: RACINE	PERMANENT SIGNING: EAST FRONTAGE ROAD	SHEET 49	E

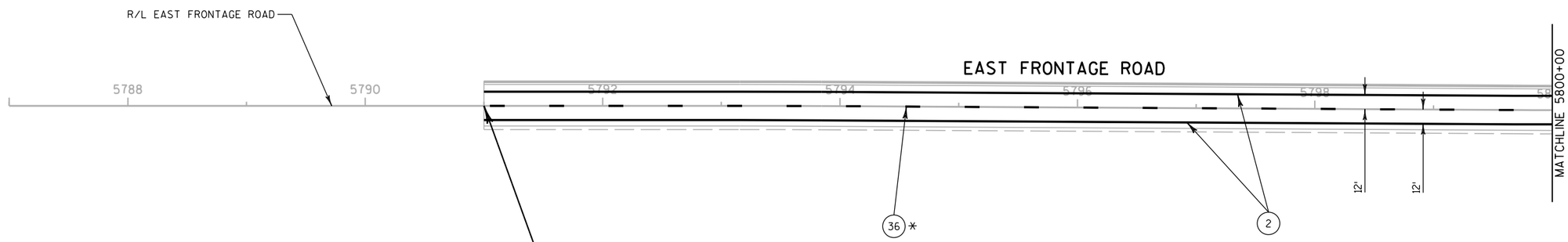
2



PROJECT NO: 1033-02-77	HWY: IH 94	COUNTY: RACINE	PERMANENT SIGNING: EAST FRONTAGE ROAD	SHEET 50	E

2

N



BEGIN PROJECT
I.D. 1033-02-77
STA. 5791+00
= MATCH PROJECT
I.D. 1030-24-70

PAVEMENT MARKING LEGEND

(1) PAVEMENT MARKING EPOXY 4-INCH (YELLOW)

(2) PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)

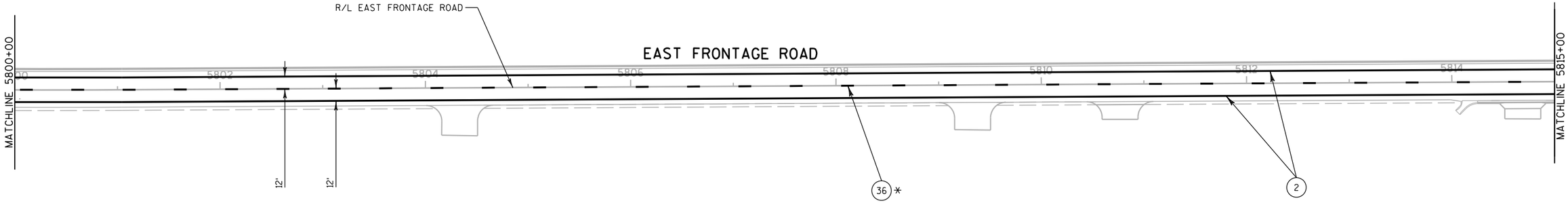
(36) PAVEMENT MARKING EPOXY 4-INCH (DASHED YELLOW) (12.5-FT LINE, 37.5-FT SKIP)

* - LIMITS OF PAVEMENT MARKING EPOXY 4-INCH (DASHED YELLOW) WILL BE DETERMINED UNDER THE PAY ITEM LOCATING NO-PASSING ZONES.

PROJECT NO: 1033-02-77	HWY: IH 94	COUNTY: RACINE	PAVEMENT MARKING: EAST FRONTAGE ROAD	SHEET 51	E

2

N



PAVEMENT MARKING LEGEND

(1) PAVEMENT MARKING EPOXY 4-INCH (YELLOW)

(2) PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)

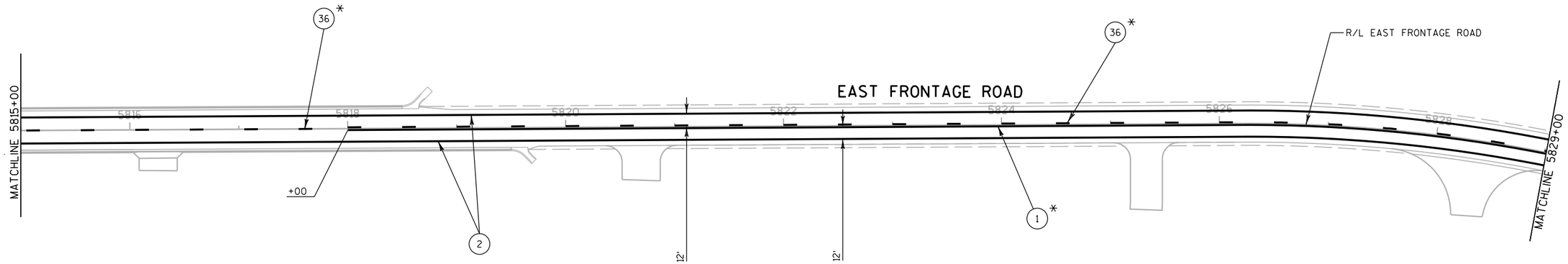
(36) PAVEMENT MARKING EPOXY 4-INCH (DASHED YELLOW) (12.5-FT LINE, 37.5-FT SKIP)

* - LIMITS OF PAVEMENT MARKING EPOXY 4-INCH (DASHED YELLOW) WILL BE DETERMINED UNDER THE PAY ITEM LOCATING NO-PASSING ZONES.

PROJECT NO: 1033-02-77	HWY: IH 94	COUNTY: RACINE	PAVEMENT MARKING: EAST FRONTAGE ROAD	SHEET 52	E

2

N



* - LIMITS OF PAVEMENT MARKING EPOXY 4-INCH (DASHED YELLOW) WILL BE DETERMINED UNDER THE PAY ITEM LOCATING NO-PASSING ZONES.

PAVEMENT MARKING LEGEND

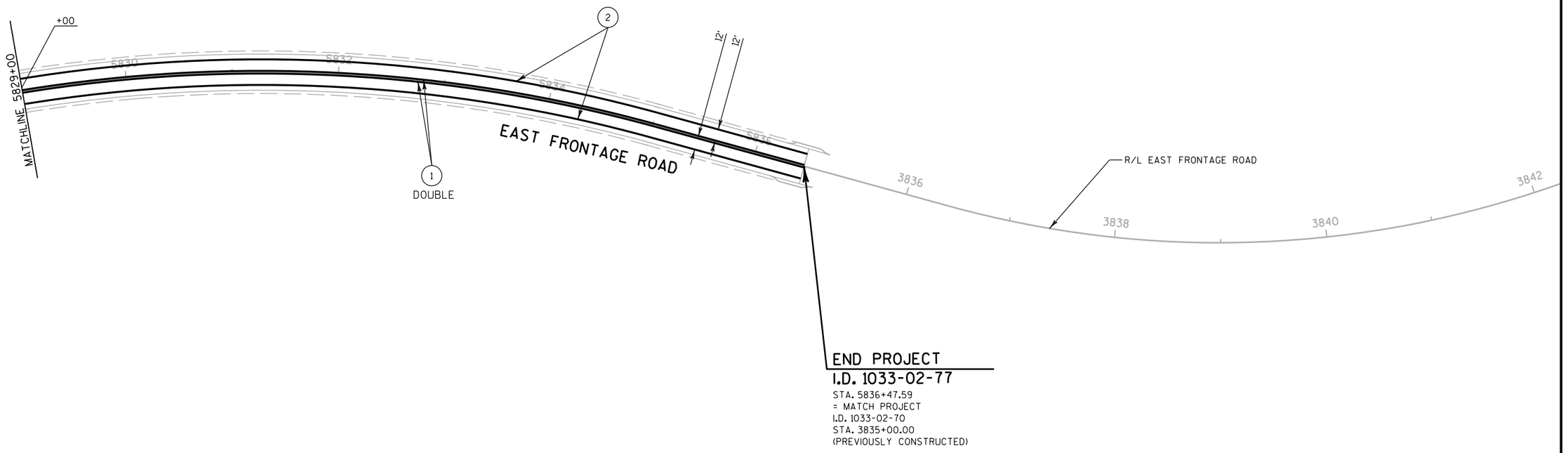
(1) PAVEMENT MARKING EPOXY 4-INCH (YELLOW)

(2) PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)

(36) PAVEMENT MARKING EPOXY 4-INCH (DASHED YELLOW) (12.5-FT LINE, 37.5-FT SKIP)

PROJECT NO: 1033-02-77	HWY: IH 94	COUNTY: RACINE	PAVEMENT MARKING: EAST FRONTAGE ROAD	SHEET 53	E

2



PAVEMENT MARKING LEGEND

(1) PAVEMENT MARKING EPOXY 4-INCH (YELLOW)

(2) PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)

(36) PAVEMENT MARKING EPOXY 4-INCH (DASHED YELLOW) (12.5-FT LINE, 37.5-FT SKIP)

* - LIMITS OF PAVEMENT MARKING EPOXY 4-INCH (DASHED YELLOW) WILL BE DETERMINED UNDER THE PAY ITEM LOCATING NO-PASSING ZONES.

PROJECT NO: 1033-02-77	HWY: IH 94	COUNTY: RACINE	PAVEMENT MARKING: EAST FRONTAGE ROAD	SHEET 54	E

2

GENERAL NOTES FOR CONSTRUCTION STAGING AND TRAFFIC CONTROL

1. ALL TRAFFIC CONTROL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED IN THE PLANS.
2. "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS REFLECTIVE ORANGE.
3. TRAFFIC CONTROL DRUMS IN TAPERS, SHALL BE EQUIPPED WITH TRAFFIC CONTROL WARNING LIGHTS, TYPE "C", ONE WAY LIGHTS IN TAPERS ONLY, UNLESS OTHERWISE SHOWN, DRUMS SHALL BE SPACED AT 25-FT OC IN TAPERS AND 50-FT OC ON TANGENTS OR AS OTHERWISE SHOWN.
4. SIGN LOCATIONS ARE APPROXIMATE. THE ACTUAL LOCATION SPACING MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER TO MEET FIELD CONDITIONS.
5. ALL SIGNS, TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE COVERED OR REMOVED AS NEEDED AND/OR AS DIRECTED BY THE ENGINEER.
6. ALL EXISTING CONFLICTING PAVEMENT MARKING SHALL BE REMOVED.
7. A FLAGGER MAY BE REQUIRED WHERE CONSTRUCTION VEHICLES ENTER OR LEAVE "WORK/CLOSED" AREAS IF WARRANTED BY CONDITIONS AND/OR AS DIRECTED BY THE ENGINEER.
8. CONTRACTOR SHALL INSTALL PERMANENT SIGNS AND PERMANENT PAVEMENT MARKING WHEN APPROPRIATE DURING CONSTRUCTION STAGING AS SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER.
9. ADEQUATE TURNING PROVISION SHALL BE MAINTAINED FOR ALL VEHICLES, INCLUDING TRUCKS AS DIRECTED BY THE ENGINEER.
10. BARRICADE STRIPES ARE TO BE SLOPED DOWNWARD IN THE DIRECTION OF TRAFFIC FLOW

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN AND TYPE "A" LIGHTS
- TRAFFIC CONTROL DRUM
- WORK AREA THIS STAGE
- DIRECTION OF TRAFFIC
- SIGN ON PERMANENT SUPPORT

N

TRAFFIC CONTROL DRUMS
STA 816+00 TO EXISTING BARRIER
INSTALL AT EDGE OF GRAVEL SHOULDER OF
IH 94 NORTHBOUND

56TH ROAD

LEETSBIR ROAD

GRANDVIEW PARKWAY

WEST FRONTAGE ROAD

25'
TYP.

IH 94

EAST FRONTAGE ROAD

R11-4
60" X 30"
ROAD CLOSED
TO
THRU TRAFFIC

1401

1404

STH 20

500'

500'

500'

1405

1402

1406

1403

BEGIN PROJECT
I.D. 1033-02-77
STA. 5791+00
= MATCH PROJECT
I.D. 1030-24-70

END PROJECT
I.D. 1033-02-77
STA. 5836+47.59

SEE PROJECT I.D. 1030-24-70
FOR ADDITIONAL EAST FRONTAGE
ROAD TRAFFIC CONTROL AND
DETOUR PLAN.

ROAD WORK AHEAD
W20-1A

LOCATED ADJACENT TO
IH 94 NB

LOUIS SORENSON ROAD

II

IH 94

ROAD CLOSED 500 FT
W20-3D

ROAD CLOSED 1000 FT
W20-3C

ROAD CLOSED AHEAD
W20-3A

STH 20

EAST FRONTAGE ROAD - STAGE 2

CONSTRUCTION
-EAST FRONTAGE ROAD CONSTRUCTION
TRAFFIC
-EAST FRONTAGE ROAD CLOSED TO THROUGH TRAFFIC

PROJECT NO: 1033-02-77	HWY: IH 94	COUNTY: RACINE	TRAFFIC CONTROL: OVERVIEW - STAGE 2	SHEET 55	E

FILE NAME : Z:\Racine\CADDS\14\14E\CDS\025001_TC.dgn
PLOT DATE : 7/31/2017
PLOT BY : bjw
PLOT NAME :
PLOT SCALE : 1:800

2

2

N

WEST FRONTAGE ROAD

56TH ROAD

LEETSBIR ROAD

R/L WEST FRONTAGE ROAD

4782

4785

4790

4795

50

75

IH 94 SB

IH 94 NB

770

775

780

785

790

795

R/L IH 94

EAST FRONTAGE ROAD

5790

5792+20

5793+55

5795

5798+80

5799+00

MATCHLINE 5799+00

EXISTING FENCE WOVEN WIRE TO REMAIN

FENCE WOVEN WIRE 4-FT

FENCE WOVEN WIRE 4-FT

R/L EAST FRONTAGE ROAD

BEGIN PROJECT
I.D. 1033-02-77
STA 5791+00
= MATCH PROJECT
I.D. 1030-24-70

LOUIS SORENSON RD.

PROJECT NO: 1033-02-77	HWY: IH 94	COUNTY: RACINE	FENCE PLAN: EAST FRONTAGE ROAD	SHEET 56	E

FILE NAME : Z:\Racine\CADDS\14\14E\CDS\027101_FN.dgn PLOT DATE : 7/31/2017 PLOT BY : bjw PLOT NAME : PLOT SCALE : 1:200

2

2

N

GRANDVIEW PARKWAY

90

BEGIN FENCE
STA 5811+20
CONNECT TO
EXISTING FENCE

R/L WEST FRONTAGE ROAD

4800 4805 4810 4815 4820 4825

WEST FRONTAGE ROAD

IH 94 SB

IH 94 NB

94

R/L IH 94

800 805 810 815 820 825

EXISTING FENCE
WOVEN WIRE
TO REMAIN

FENCE WOVEN
WIRE 4-FT

EXISTING
FENCE WOVEN WIRE
TO REMAIN

STA. 5826+73
30-FT LT

STA. 5826+21
30-FT LT

STA. 5818+25
30-FT LT

5799+20 5800+80 5801+20 5802+75 5803+25 5805+55 5806+35

5800 5805 5810 5815 5820 5825

MATCHLINE 5799+00

MATCHLINE 5829+00

EAST FRONTAGE ROAD

FENCE
WOVEN WIRE
4-FT

FENCE WOVEN
WIRE 4-FT

FENCE
WOVEN WIRE
4-FT

R/L EAST FRONTAGE ROAD

EXISTING FENCE
WOVEN WIRE
TO REMAIN

PROJECT NO: 1033-02-77	HWY: IH 94	COUNTY: RACINE	FENCE PLAN: EAST FRONTAGE ROAD	SHEET 57	E

FILE NAME : Z:\Racine\CADDS\14\14E\CDS\027102_FN.dgn PLOT DATE : 7/31/2017 PLOT BY : bjw PLOT NAME : PLOT SCALE : 1:200

WISDOT/CADDS SHEET 42

2

2

N

R/L WEST FRONTAGE ROAD

4830 4835 4840 4845 2840

WEST FRONTAGE ROAD

SB ON RAMP

830 IH 94 SB 835 840 845 850 855 86

IH 94 NB

R/L IH 94

END FENCE
STA 5830+15
CONNECT TO
EXISTING FENCE

MATCHLINE 5829+00

5830

EXISTING
FENCE WOVEN WIRE
TO REMAIN

5835

5835

R/L EAST FRONTAGE ROAD

3840 3845 3850

EAST FRONTAGE ROAD

STH 20

END PROJECT
I.D. 1033-02-77
STA 5836+47.59
= MATCH PROJECT
I.D. 1030-24-70
STA 3835+00
(PREVIOUSLY CONSTRUCTED)

PROJECT NO: 1033-02-77	HWY: IH 94	COUNTY: RACINE	FENCE PLAN: EAST FRONTAGE ROAD	SHEET 58	E

FILE NAME : Z:\Racine\CADDS\14\14E\CDS\027103_FN.dgn PLOT DATE : 7/31/2017 PLOT BY : bjw PLOT NAME : PLOT SCALE : 1:200

2

2

N

POINT SEC3103
Y=178363.46
X=591472.83

T3N R21E 24

1/4 LINE

N 89° 53' 8.88" E

2640.05'

75 LEETSBIR ROAD

CP79509

POINT SEC3104
Y=178368.73
X=594112.87

T3N R22E 24 19 24 19 R22E

POINT SEC3090
Y=181012.86
X=591458.89

T3N R21E 13 24

SECTION LINE N 89° 33' 14.08" E 1934.60'

R/L WEST FRONTAGE ROAD

4790 4795 4800 4805 4810 4815 4820

WEST FRONTAGE ROAD

64' 70'

790 795 800 805 810 815 820

R/L IH 94

IH 94

SECTION LINE 2664.75'

57' 52'

5790 5795 5800 5805 5810 5815 5820

PI SEDW141

PC SEDW141

PT SEDW141

N 0° 11' 59.19" E

PC SEDW142

PI SEDW142

PT SEDW142

EAST FRONTAGE ROAD

N 0° 07' 43.50" W

N 0° 27' 11.03" W

R/L EAST FRONTAGE ROAD

N 0° 7' 43.35" W

BEGIN PROJECT I.D. 1033-02-77
END PROJECT I.D. 1030-24-70
STA. 5791+00
Y= 178369.28
X= 594170.22

STA. 5790+98.16
Y=178367.45
X=594170.22

POINT SEC3091
Y=181033.472
X=594106.884

T3N R21E 13 18 24 19 R22E

STA. 5817+62.99
Y=181032.21
X=594158.39

1/4 LINE

S 88° 43' 15.63" E

2500.00'

SECTION LINE S 88° 35' 59.55" E 2502.30'

POINT SEC3093
Y=178312.92
X=596612.25

T3N R22E 19

POINT SEC3080
Y=180972.33
X=596608.43

T3N R22E 19 18

Curve Data

Curve		PI Coordinates										
No.	PI	X	Y	Δ	D	T	L	E	R	PC	PT	SE
SEDW141	5793+50.00	594169.66	178619.28	0°19'42.55" RT	0°28'38.87"	34.40'	68.80'	0.05'	12000.00	5793+15.60	5793+84.40	NC
SEDW142	5800+36.09	594172.05	179305.37	0°39'10.23" LT	0°28'38.87"	68.37'	136.73'	0.19'	12000.00	5799+67.72	5801+04.45	NC

PROJECT NO: 1033-02-77	HWY: IH 94	COUNTY: RACINE	ALIGNMENT LAYOUT: EAST FRONTAGE ROAD	SHEET 59	E

FILE NAME : Z:\Racine\CADDS\14\14E\CDS\027201_ad.dgn PLOT DATE : 7/31/2017 PLOT BY : bjw PLOT NAME : PLOT SCALE : 1:200

SUPERELEVATION & CROSS SLOPE DATA	STATION	RATE			
		LEFT		RIGHT	
		SHOULDER	TRAVEL LANE	TRAVEL LANE	SHOULDER
BEGIN SHOULDER TRANSITION	5824+45.00	-4.00%	-2.00%	-2.00%	-4.00%
BEGIN SUPER TRANSITION	5824+95.00	-2.00%	-2.00%	-2.00%	-4.00%
END CROWN RUNOFF	5825+45.00	0.00%	0.00%	-2.00%	-4.00%
REMOVE ADVERSE CROWN	5825+95.00	2.00%	2.00%	-2.00%	-4.00%
BEGIN FULL SUPER	5826+50.00	4.10%	4.10%	-4.10%	-4.10%
END FULL SUPER	5834+70.00	4.10%	4.10%	-4.10%	-4.10%
REMOVE ADVERSE CROWN	5835+25.00	2.00%	2.00%	-2.00%	-4.00%
END CROWN RUNOFF	5835+75.00	0.00%	0.00%	-2.00%	-4.00%
END SUPER TRANSITION	5836+25.00	-2.00%	-2.00%	-2.00%	-4.00%
END PROJECT	5836+47.59 / 3835+00.00	-3.00%	-2.00%	-2.00%	-4.00%

NOTES

1) POSITIVE VALUES SLOPE TOWARDS THE REFERENCE LINE

2) NEGATIVE VALUES SLOPE AWAY FROM THE REFERENCE LINE

3) INSIDE SHOULDER TRANSITIONS FROM FULL SUPER TO -4.0% WITHIN 5' OF BEGIN / END SUPER STATIONS

Curve Data												
Curve No.	PI	PI Coordinates X	PI Coordinates Y	Δ	D	T	L	E	R	PC	PT	SE
CL 331	5830+76.92	594148.00	182346.11	36°04'36.54" RT	4°05'33.20"	455.93'	881.52'	72.37'	1400.00	5826+21.00	5835+02.52	NC

POINT SEC3090
Y=181012.86
X=591458.89

SECTION LINE N 89° 33' 14.08" E 1934.60'

GRANDVIEW PARKWAY

WEST FRONTAGE ROAD

CP83343

R/L WEST FRONTAGE ROAD

R/L IH 94

IH 94

70'

81'

SECTION LINE 2652.71'

N 0° 08' 43.22" W

N 89° 24' 20.08" E

1/4 LINE

2644.54'

POINT SEC3077
Y=183658.74
X=591455.76

EAST FRONTAGE ROAD

N 0° 27' 11.03" W

PC
CL 331

PI
CL 331

CURVE CL 331

R/L EAST FRONTAGE ROAD

CP83178

PT
CL 331

STATION EQUATION
STA. 5836+47.59 BACK =
STA. 3835+00.00 AHEAD

N 35° 37' 25.51" E

END PROJECT I.D. 1033-02-77
STA 5836+47.59
MATCH PROJECT I.D. 1033-02-70
(PREVIOUSLY CONSTRUCTED)
STA 3835+00
Y= 182834.63
X= 594498.06

POINT SEC3078
Y=183686.18
X=594100.16

S 88° 40' 22.29" E

1/4 LINE

2504.78'

POINT SEC3091
Y=181033.47
X=594106.88

STA. 5817+62.99
Y=181032.21
X=594158.39

SECTION LINE S 88° 35' 59.55" E 2502.30'

POINT SEC3080
Y=180972.33
X=596608.43

POINT SEC3067
Y=183628.16
X=596604.26

PROJECT NO: 1033-02-77	HWY: IH 94	COUNTY: RACINE	ALIGNMENT LAYOUT: EAST FRONTAGE ROAD	SHEET 60	E

FILE NAME : Z:\Racine\CADDS\14\14E\CDS\027202_ad.dgn PLOT DATE : 7/31/2017 PLOT BY : bjw PLOT NAME : PLOT SCALE : 1:200

WISDOT/CADDS SHEET 42

2

CP78638
BERNTSEN F1000 SPK FENO MONUMENT
WITH ALUMINUM CAP
STA. 4786+38.42, 98.26'LT
N=177906.79
E=593814.27
ELEV.=774.87

CP79509
BERNTSEN F1000 SPK FENO MONUMENT
WITH ALUMINUM CAP
STA. 4795+09.98, 214.56'LT
N=178777.74
E=593693.47
ELEV.=763.56

56TH ROAD

LEETSBIR ROAD

4784 4786 4788 4790 4792 4794 4796 4798

WEST FRONTAGE ROAD

IH 94 SB

2

CP83343
BERNTSEN F1000 SPK FENO MONUMENT
WITH ALUMINUM CAP
STA. 4833+42.91, 53.77'LT
N=182610.14
E=593839.65
ELEV.=765.81

4832 4834 4836

WEST FRONTAGE ROAD

IH 94 SB

IH 94 NB

IH 94 NB

5828 5830 5832 5834 5836

EAST FRONTAGE ROAD

CP83178
BERNTSEN F1000 SPK FENO
MONUMENT WITH ALUMINUM CAP
STA. 5832+26.80, 68.67'RT
N=182449.97
E=594338.57
ELEV.=772.28

PROJECT NO: 1033-02-77	HWY: IH 94	COUNTY: RACINE	SURVEY CONTROL	SHEET 61	E

FILE NAME : Z:\Racine\CADDS\14\14E\CDS\027203_ad.dgn PLOT DATE : 7/31/2017 PLOT BY : bjw PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

1033-02-77

Line	Item	Item Description	Unit	Total	Qty
0002	108.4400	CPM Progress Schedule	EACH	0.100	0.100
0004	201.0105	Clearing	STA	6.000	6.000
0008	201.0205	Grubbing	STA	6.000	6.000
0012	203.0100	Removing Small Pipe Culverts	EACH	12.000	12.000
0014	203.0200	Removing Old Structure (station) 014. 5793+37 LT & RT	LS	1.000	1.000
0016	203.0200	Removing Old Structure (station) 015. 5801+00 RT	LS	1.000	1.000
0018	203.0200	Removing Old Structure (station) 016. 5823+20 LT & RT	LS	1.000	1.000
0026	204.0100	Removing Pavement **P**	SY	6,180.000	6,180.000
0028	204.0150	Removing Curb & Gutter **P**	LF	15.000	15.000
0032	204.0170	Removing Fence **P**	LF	1,730.000	1,730.000
0034	204.0180	Removing Delineators and Markers	EACH	2.000	2.000
0036	204.0185	Removing Masonry	CY	1.000	1.000
0040	204.0210	Removing Manholes	EACH	1.000	1.000
0042	204.0220	Removing Inlets	EACH	1.000	1.000
0044	204.0245	Removing Storm Sewer (size) 002. 6-Inch	LF	25.000	25.000
0046	204.0245	Removing Storm Sewer (size) 004. 12-Inch	LF	66.000	66.000
0050	204.0245	Removing Storm Sewer (size) 006. 15-Inch	LF	37.000	37.000
0052	204.0245	Removing Storm Sewer (size) 008. 18-Inch	LF	33.000	33.000
0060	204.0270	Abandoning Culvert Pipes	EACH	2.000	2.000
0062	204.0280	Sealing Pipes	EACH	10.000	10.000
0064	204.9060.S	Removing (item description) 001. Gate	EACH	2.000	2.000
0068	204.9090.S	Removing (item description) 002. Draintile	LF	110.000	110.000
0072	205.0100	Excavation Common	CY	32,806.000	32,806.000
0074	208.1100	Select Borrow	CY	6,637.000	6,637.000
0076	209.2100	Backfill Granular Grade 2	CY	566.000	566.000
0088	213.0100	Finishing Roadway (project) 032. 1033-02-77	EACH	1.000	1.000
0094	305.0110	Base Aggregate Dense 3/4-Inch	TON	1,708.000	1,708.000
0096	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	17,050.000	17,050.000
0098	311.0110	Breaker Run	TON	2,544.000	2,544.000
0100	440.4410	Incentive IRI Ride	DOL	1,723.000	1,723.000
0102	450.4000	HMA Cold Weather Paving	TON	1,418.000	1,418.000
0104	455.0605	Tack Coat	GAL	878.000	878.000
0106	460.2000	Incentive Density HMA Pavement	DOL	3,630.000	3,630.000
0108	460.5223	HMA Pavement 3 LT 58-28 S	TON	3,351.000	3,351.000
0110	460.5224	HMA Pavement 4 LT 58-28 S	TON	2,320.000	2,320.000
0112	460.7423	HMA Pavement 3 HT 58-28 H	TON	49.000	49.000
0114	460.7425	HMA Pavement 5 HT 58-28 H	TON	33.000	33.000
0116	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	175.000	175.000
0120	465.0315	Asphaltic Flumes	SY	50.000	50.000
0128	504.0900	Concrete Masonry Endwalls	CY	2.100	2.100

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Line	Item	Item Description	Unit	Total	Qty
0140	520.3318	Culvert Pipe Class III-A 18-Inch	LF	106.000	106.000
0142	520.3324	Culvert Pipe Class III-A 24-Inch	LF	58.000	58.000
0144	520.3330	Culvert Pipe Class III-A 30-Inch	LF	80.000	80.000
0152	520.8000	Concrete Collars for Pipe	EACH	6.000	6.000
0160	521.1618	Apron Endwalls for Culvert Pipe Sloped Side Drains Steel 18-Inch 10 to 1	EACH	2.000	2.000
0162	521.1624	Apron Endwalls for Culvert Pipe Sloped Side Drains Steel 24-Inch 10 to 1	EACH	2.000	2.000
0164	521.1630	Apron Endwalls for Culvert Pipe Sloped Side Drains Steel 30-Inch 10 to 1	EACH	2.000	2.000
0168	522.0124	Culvert Pipe Reinforced Concrete Class III 24-Inch	LF	88.000	88.000
0182	522.1015	Apron Endwalls for Culvert Pipe Reinforced Concrete 15-Inch	EACH	5.000	5.000
0184	522.1018	Apron Endwalls for Culvert Pipe Reinforced Concrete 18-Inch	EACH	5.000	5.000
0186	522.1024	Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	EACH	5.000	5.000
0188	522.1030	Apron Endwalls for Culvert Pipe Reinforced Concrete 30-Inch	EACH	3.000	3.000
0206	523.0529	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 29x45-Inch	EACH	4.000	4.000
0208	523.0534	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 34x53-Inch	EACH	1.000	1.000
0212	601.0553	Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type D **P**	LF	3,275.000	3,275.000
0220	606.0100	Riprap Light	CY	94.000	94.000
0222	606.0200	Riprap Medium	CY	231.000	231.000
0238	608.0415	Storm Sewer Pipe Reinforced Concrete Class IV 15-Inch	LF	386.000	386.000
0240	608.0418	Storm Sewer Pipe Reinforced Concrete Class IV 18-Inch	LF	209.000	209.000
0242	608.0424	Storm Sewer Pipe Reinforced Concrete Class IV 24-Inch	LF	472.000	472.000
0244	608.0430	Storm Sewer Pipe Reinforced Concrete Class IV 30-Inch	LF	223.000	223.000
0246	608.0512	Storm Sewer Pipe Reinforced Concrete Class V 12-Inch	LF	200.000	200.000
0248	610.0129	Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-III 29x45-Inch	LF	271.000	271.000
0250	610.0134	Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-III 34x53-Inch	LF	66.000	66.000
0254	611.0535	Manhole Covers Type J-Special	EACH	12.000	12.000
0256	611.0627	Inlet Covers Type HM	EACH	13.000	13.000
0258	611.0642	Inlet Covers Type MS	EACH	5.000	5.000

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Line	Item	Item Description	Unit	Total	Qty
0260	611.2004	Manholes 4-FT Diameter	EACH	7.000	7.000
0262	611.2005	Manholes 5-FT Diameter	EACH	5.000	5.000
0270	611.3230	Inlets 2x3-FT	EACH	6.000	6.000
0272	611.3901	Inlets Median 1 Grate	EACH	3.000	3.000
0274	611.3902	Inlets Median 2 Grate	EACH	1.000	1.000
0278	611.9800.S	Pipe Grates	EACH	1.000	1.000
0280	612.0106	Pipe Underdrain 6-Inch	LF	2,710.000	2,710.000
0288	612.0206	Pipe Underdrain Unperforated 6-Inch	LF	20.000	20.000
0290	612.0700	Drain Tile Exploration	LF	200.000	200.000
0292	612.0806	Apron Endwalls for Underdrain Reinforced Concrete 6-Inch	EACH	2.000	2.000
0300	614.0920	Salvaged Rail **P**	LF	1,410.000	1,410.000
0302	614.0925	Salvaged Guardrail End Treatments **P**	EACH	2.000	2.000
0310	616.0100	Fence Woven Wire (height) 001. 4-FT	LF	2,260.000	2,260.000
0312	616.0700.S	Fence Safety	LF	430.000	430.000
0322	618.0100	Maintenance And Repair of Haul Roads (project) 010. 1033-02-77	EACH	1.000	1.000
0326	619.1000	Mobilization	EACH	0.100	0.100
0330	623.0200	Dust Control Surface Treatment	SY	44,500.000	44,500.000
0332	624.0100	Water	MGAL	270.000	270.000
0334	625.0500	Salvaged Topsoil	SY	29,000.000	29,000.000
0336	627.0200	Mulching	SY	28,500.000	28,500.000
0338	628.1504	Silt Fence	LF	4,341.000	4,341.000
0340	628.1520	Silt Fence Maintenance	LF	4,341.000	4,341.000
0342	628.1905	Mobilizations Erosion Control	EACH	5.000	5.000
0344	628.1910	Mobilizations Emergency Erosion Control	EACH	5.000	5.000
0346	628.2004	Erosion Mat Class I Type B	SY	11,423.000	11,423.000
0348	628.2008	Erosion Mat Urban Class I Type B	SY	1,765.000	1,765.000
0350	628.6510	Soil Stabilizer Type B	ACRE	3.000	3.000
0352	628.7005	Inlet Protection Type A	EACH	25.000	25.000
0356	628.7015	Inlet Protection Type C	EACH	13.000	13.000
0358	628.7020	Inlet Protection Type D	EACH	4.000	4.000
0360	628.7504	Temporary Ditch Checks	LF	230.000	230.000
0362	628.7555	Culvert Pipe Checks	EACH	196.000	196.000
0364	628.7560	Tracking Pads	EACH	2.000	2.000
0366	628.7570	Rock Bags	EACH	90.000	90.000
0368	630.0140	Seeding Mixture No. 40	LB	170.000	170.000
0370	630.0200	Seeding Temporary	LB	960.000	960.000
0372	633.0100	Delineator Posts Steel	EACH	10.000	10.000
0374	633.0500	Delineator Reflectors	EACH	20.000	20.000

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Line	Item	Item Description	Unit	Total	Qty
0376	633.5200	Markers Culvert End	EACH	22.000	22.000
0380	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	6.000	6.000
0382	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	2.000	2.000
0388	637.2210	Signs Type II Reflective H	SF	15.000	15.000
0392	637.2230	Signs Type II Reflective F	SF	40.000	40.000
0394	638.2102	Moving Signs Type II	EACH	1.000	1.000
0396	638.2602	Removing Signs Type II	EACH	9.000	9.000
0398	638.3000	Removing Small Sign Supports	EACH	7.000	7.000
0408	643.0100	Traffic Control (project) 032. 1033-02-77	EACH	1.000	1.000
0412	643.0300	Traffic Control Drums	DAY	2,460.000	2,460.000
0414	643.0420	Traffic Control Barricades Type III	DAY	675.000	675.000
0416	643.0705	Traffic Control Warning Lights Type A	DAY	1,350.000	1,350.000
0422	643.0900	Traffic Control Signs	DAY	550.000	550.000
0426	643.1000	Traffic Control Signs Fixed Message	SF	76.500	76.500
0428	643.1050	Traffic Control Signs PCMS	DAY	24.000	24.000
0436	645.0111	Geotextile Type DF Schedule A	SY	1,506.000	1,506.000
0438	645.0120	Geotextile Type HR	SY	677.000	677.000
0440	645.0130	Geotextile Type R	SY	924.000	924.000
0442	645.0135	Geotextile Type SR	SY	1,136.000	1,136.000
0444	645.0220	Geogrid Type SR	SY	24,991.000	24,991.000
0446	646.0106	Pavement Marking Epoxy 4-Inch	LF	3,476.000	3,476.000
0448	646.0805.S	Pavement Marking Outfall	EACH	2.000	2.000
0450	646.2304.S	Pavement Marking Grooved Wet Reflective Epoxy 4-Inch	LF	9,095.000	9,095.000
0468	648.0100	Locating No-Passing Zones	MI	0.860	0.860
0470	690.0150	Sawing Asphalt	LF	197.000	197.000
0472	690.0250	Sawing Concrete	LF	60.000	60.000
0474	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	140.000	140.000
0476	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	150.000	150.000
0478	SPV.0030	Special 001. Fertilizer Type B, Special	CWT	23.040	23.040
0482	SPV.0060	Special 006. Salvaging Existing Access Gate	EACH	1.000	1.000
0486	SPV.0060	Special 088. Field Facilities Office Space	EACH	0.100	0.100
0492	SPV.0060	Special 091. Section Corner Monuments	EACH	1.000	1.000
0502	SPV.0075	Special 033. Pavement Cleanup Project 1033-02-77	HRS	20.000	20.000
0506	SPV.0085	Special 002. Seeding Mixture No. 30, Special	LB	700.000	700.000
0512	SPV.0090	Special 084. Heavy Duty Silt Fence	LF	812.000	812.000
0514	SPV.0090	Special 085. Temporary Ditch Check Rock Bags Single Layer	LF	40.000	40.000
0516	SPV.0090	Special 086. Temporary Ditch Check Rock Bags Double Layer	LF	40.000	40.000

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Line	Item	Item Description	Unit	Total	Qty
0526	SPV.0105	Special 032. Survey Project 1033-02-77	LS	1.000	1.000
0532	SPV.0105	Special 099. Grade Shape & Finish Ditch Proj 1033-02-77 CTH K to CTH G East Frontage Rd	LS	1.000	1.000
0536	SPV.0195	Special 006. Select Subbase	TON	9,632.000	9,632.000
0538	SPV.0200	Special 002. Manholes 4-FT Diameter Special	VF	24.000	24.000

CPM PROGRESS SCHEDULE

CATEGORY	STAGE		108.4400 EACH
1000	ALL	PROJECT 1033-02-77	0.1
	TOTAL (I.D. 1033-02-77)		0.1

REMOVING OLD STRUCTURES

CATEGORY	ROADWAY / STRUCTURE	STA	LOCATION	203.0200.014 REMOVING OLD STRUCTURE STA. 5793+37 LT & RT LS	203.0200.015 REMOVING OLD STRUCTURE STA. 5801+00 RT LS	203.0200.016 REMOVING OLD STRUCTURE STA. 5823+20 LT & RT LS	COMMENTS
1000	EAST FRONTAGE ROAD						
	C-46-36	5793+37	LT & RT	1	--	--	24" x 42" BOX CULVERT
	C-45-36	5801+00	RT	–	1	--	36" x 36" BOX CULVERT
	C-43-36	5823+20	LT & RT	–	--	1	30" x 60" BOX CULVERT
	TOTALS (I.D. 1033-02-77)			1	1	1	

REMOVING CURB AND GUTTER

CATEGORY	ROADWAY	STA	LOCATION	204.0150 REMOVING CURB AND GUTTER LF
1000	EAST FRONTAGE ROAD			
		5804+52	RT	5
		5809+14	RT	10
		TOTAL (I.D. 1033-02-77)		15

REMOVING STORM SEWER

CATEGORY	ROADWAY	STATION	LOCATION	204.0245.002 REMOVING STORM SEWER 6-INCH LF	204.0245.004 REMOVING STORM SEWER 12-INCH LF	204.0245.006 REMOVING STORM SEWER 15-INCH LF	204.0245.008 REMOVING STORM SEWER 18-INCH LF	REMARKS
1000	EAST FRONTAGE ROAD							
		5793+55	RT	–	–	--	33	TO SOUTHEAST
		5793+60	LT & RT	–	66	--	--	FROM WEST
		5800+75	RT	25	–	--	--	
		5824+77	RT	–	–	37	--	
		TOTAL (I.D. 1033-02-77)		25	66	37	33	

CLEARING AND GRUBBING

CATEGORY	ROADWAY	STA	TO	STA	201.0105 CLEARING STA.	201.0205 GRUBBING STA.
1000	EAST FRONTAGE ROAD					
		5826+00	-	5831+00	5	5
		5833+00	-	5834+00	1	1
		TOTALS (I.D. 1033-02-77)			6	6

REMOVING DRAIN TILE

CATEGORY	ROADWAY	STA.	LOCATION	204.9090.S.002 REMOVING DRAIN TILE LF
1000	EAST FRONTAGE ROAD			
		5793+60	RT	33
		5825+57	LT & RT	110
		TOTAL (I.D. 1033-02-77)		110

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REMOVING SMALL PIPE CULVERTS

CATEGORY	ROADWAY	STATION	LOCATION	SIZE	LENGTH	203.0100 REMOVING SMALL PIPE CULVERTS EACH
1000	EAST FRONTAGE ROAD					
		5793+60	LT & RT	12" CPCM	65	1
		5800+50	LT & RT	BURIED	80'	1
		5801+01	LT & RT	36" CPCM	42'	1
		5805+81	LT & RT	2-36" CMCM	50'	2
		5809+37	20' RT	12" CPCM	63'	1
		5810+77	20' RT	12" CPCM	43'	1
		5814+69	20' RT	12" CPCM	46'	1
		5820+68	24' RT	12" CPCM	55'	1
		5824+78	40' RT	15" CPCM	39	1
		5825+40	26' RT	18" CPCM	44'	1
		5826+90	LT & RT	6" CPCM	40'	1
		TOTAL (I.D. 1033-02-77)				12

REMOVING FENCE

CATEGORY	ROADWAY	STA	TO	STA	LOCATION	204.0170 REMOVING FENCE LF
1000	EAST FRONTAGE ROAD					
		5792+20	-	5793+55	LT	135
		5798+80	-	5799+20	LT	40
		5799+80	-	5801+20	RT	140
		5800+80	-	5801+20	LT	40
		5802+75	-	5803+25	LT	50
		5805+55	-	5805+90	LT	35
		5806+05	-	5806+35	LT	30
		5811+35	-	5811+65	LT	30
		5814+05	-	5814+45	LT	40
		5818+25	-	5830+15	LT	1,190
		TOTAL (I.D. 1033-02-77)				1,730

REMOVING DELINEATORS AND MARKERS

CATEGORY	ROADWAY	204.0180 REMOVING DELINEATORS AND MARKERS EACH	
1000	EAST FRONTAGE ROAD		
	STA. 5800+95, 40' RT	1	WOODEN MARKER POST
	STA. 5805+90, 19' RT	1	WOODEN MARKER POST
	TOTAL (I.D. 1033-02-77)	2	

REMOVING PAVEMENT

CATEGORY	ROADWAY	STA	TO	STA	204.0100 REMOVING PAVEMENT SY	DESCRIPTION
1000	EAST FRONTAGE ROAD					
		5791+00	-	5836+45	5,900	ROADWAY
		5810+63	-	5810+91	140	DRIVEWAY
		5814+53	-	5814+85	140	DRIVEWAY
		TOTAL		(I.D. 1033-02-77)	6,180	

REMOVING GATE

CATEGORY	ROADWAY	STA	LOCATION	204.9060.S.001 REMOVING GATE EACH	COMMENTS
1000	EAST FRONTAGE ROAD				
		5809+33	RT	1	TWO POSTS
		5830+21	RT	1	
		TOTAL (I.D. 1033-02-77)		2	

REMOVING STORM SEWER STRUCTURES

CATGORY	ROADWAY	STATION	OFFSET	LOCATION	204.0210 REMOVING MANHOLES EACH	204.0220 REMOVING INLETS EACH
1000	EAST FRONTAGE ROAD					
		5793+60	31'	RT	1	--
		5800+85	40'	RT	--	1
		TOTALS (I.D. 1033-02-77)			1	1

REMOVING MASONRY

CATEGORY	ROADWAY	STATION	LOCATION	204.0185 REMOVING MASONRY CY	COMMENTS
1000	EAST FRONTAGE ROAD				
		5826+90	RT	1	CONCRETE ENDWALL
		TOTAL (I.D. 1033-02-77)		1	

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EARTHWORK

CATEGORY	ROADWAY	FROM / TO STATION	205.0100 EXCAVATION COMMON CY		SALVAGED / UNUSABLE PAVEMENT MATERIAL (4)	AVAILABLE MATERIAL (5)	REDUCED EBS IN FILL (6)	EXPANDED EBS BACKFILL (7)	208.1100 SELECT BORROW CY	UNEXPANDED FILL (8)	EXPANDED FILL (9)	MASS ORDINATE +/- (10)	WASTE (11)	ESTIMATED DISPOSAL AREA OUTSIDE 1:1 SLOPE (12)
			CUT (2)	*EBS EXCAVATION (3)			Factor 0.80	Factor 1.30			FACTOR 1.20			
1000	EAST FRONTAGE ROAD	5791+00 to 5836+47.59	28,721	1,436	4,813	25,345	1,149	1,867	1,867	2,219	2,662	22,683	28,931	820
	EBS AT DITCH FILLS	5791+00 TO 5836+47.59	0	2,649	0	2,649	2,119	3,450	3,450	0	0	2,649	5,298	0
	EXISTING PAVEMENT EBS (13)	5796+00 to 5805+00	0	428	428	0	0	560	560	0	0	0	856	0
	EXISTING PAVEMENT EBS (13)	5819+50 to 5827+00	0	583	583	0	0	760	760	0	0	0	1,166	0
	GRAND TOTALS	GRAND TOTALS	28,721	4,085	5,824	27,994	3,268	6,637	6,637	2,219	2,662	25,332	36,251	820
		TOTAL EXCAVATION COMMON		32,806										

1) COMMON EXCAVATION IS THE SUM OF THE CUT AND EBS EXCAVATION COLUMNS. ITEM NUMBER 205.0100

2) SALVAGED / UNUSABLE PAVEMENT MATERIAL IS INCLUDED IN CUT UNLESS EXISTING PAVEMENT IS BELOW SUBGRADE.

3) EBS TO BE BACKFILLED WITH SELECT BORROW. EBS TO BE WASTED OUTSIDE THE 1:1 SLOPES (SEE NOTE 6) OR HAULED OFF-SITE.

4) EXISTING PAVEMENT VOLUME (CY), NOT AVAILABLE FOR FILL. ALL SALVAGED / UNUSABLE PAVEMENT MATERIAL EITHER BELOW OR ABOVE SUBGRADE IS SHOWN WITHIN THE ROADWAY ROW.

5) AVAILABLE MATERIAL = CUT + EBS EXCAVATION - SALVAGED/UNUSABLE PAVEMENT MATERIAL.

6) REDUCED EBS IN FILL - FOR INFORMATION ONLY. EXCAVATED EBS MATERIALS ARE UNUSABLE IN FILLS OUTSIDE THE 1:1 SLOPE BETWEEN IH 94 AND THE FRONTAGE ROAD. EBS MATERIAL CAN BE USED OUTSIDE THE 1:1 SLOPE ON THE NON-IH 94 SIDE OF THE FRONTAGE ROAD.

7) EXPANDED EBS BACKFILL - THIS IS TO BE FILLED WITH SELECT BORROW MATERIAL. EBS BACKFILL FACTOR = 1.3 ITEM NUMBER 208.1100

8) UNEXPANDED FILL - FILL FROM END AREA EARTHWORK VOLUMES

9) EXPANDED FILL FACTOR = 1.20 (EXPANDED FILL DOES NOT CONTAIN EBS)

10) MASS ORDINATE = AVAILABLE MATERIAL - EXPANDED FILL. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE STAGE. MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE STAGE.

11) WASTE = EBS + SALVAGED/UNUSABLE PAVEMENT MATERIAL + (MASS ORDINATE IF POSITIVE WITHIN DIVISION)

12) THE ESTIMATED AREA OUTSIDE THE 1:1 FILL SLOPES = LOCATION WHERE THE EBS AND CUT MATERIALS CAN BE WASTED (USED AT CONTRACTORS DISCRETION). AREA IS PART OF THE FILL NUMBERS.

13) EXISTING PAVEMENT EBS IS NOT INCLUDED IN THE TOTAL COMMON EXCAVATION; REMOVAL IS COVERED BY ITEM NUMBER 204.0100 "REMOVING PAVEMENT" AND IS SOLELY SHOWN TO QUANTIFY THE SELECT BORROW USED TO FILL TO THE SUBGRADE

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FINISHING ROADWAY

CATEGORY	STAGE		213.0100.032 EACH
1000	ALL	EAST FRONTAGE ROAD	1
	TOTAL (I.D. 1033-02-77)		1

BACKFILL GRANULAR

CATEGORY	ROADWAY	STATION	TO	STATION	*209.2100 BACKFILL GRANULAR GRADE 2 CY
1000	EAST FRONTAGE ROAD	5791+00	-	5836+48	566
	TOTALS (I.D. 1033-02-77)				566

*GRANULAR BACKFILL USED TO BACKFILL HOLES RESULTING FROM STRUCTURE REMOVAL. SEE GENERAL NOTES FOR ADDITIONAL INFORMATION.

DRIVEWAY ITEMS

CATEGORY	ROADWAY	STATION	LOC.	*305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	460.7423 HMA PAVEMENT 3 HT 58-28 H TON	460.7425 HMA PAVEMENT 5 HT 58-28 H TON	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON
1000	EAST FRONTAGE ROAD						
		5804+33	RT	30	–	--	29
		5809+33	RT	27	–	--	27
		5810+76	RT	33	–	--	14
		5814+69	RT	31	–	--	12
		5816+26	RT	24	–	--	18
		5820+69	RT	32	–	--	31
		5825+35	RT	50	–	--	39
		5828+38	RT	167	49	33	--
		5836+00	RT	2	–	--	2
		5836+00	LT	2	–	--	3
		TOTALS	(I.D. 1033-02-77)	398	49	33	175

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

BASE AGGREGATE ITEMS

CATEGORY	ROADWAY	STA	TO	STA	*305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	311.0110 BREAKER RUN TON	645.0135 GEOTEXTILE TYPE SR SY	**645.0220 GEOGRID TYPE SR SY	**SPV.0195.006 SELECT SUBBASE TON
1000	EAST FRONTAGE ROAD	5791+00	-	5836+48	1,100	15,410	–		22,719	9,600
	RELIEF TRENCHES	5791+00	-	5836+48	--	--	–		–	32
	TEMPORARY ACCESS	–	-	--	--	90	–		–	--
	UNDISTRIBUTED	–	-	--	210	1,550	2,544	1,136	2,272	--
	TOTALS (I.D. 1033-02-77)				1,310	17,050	2,544	1,136	24,991	9,632

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

**QUANTITY BASED ON PROJECT LENGTH. USAGE TO BE AUTHORIZED BY ENGINEER OR SOILS ENGINEER. SEE GENERAL NOTES FOR ADDITIONAL INFORATION.

3

ASPHALTIC PAVEMENT ITEMS

CATEGORY	ROADWAY	STA	TO	STA	440.4410 INCENTIVE IRI RIDE DOL	455.0605 TACK COAT GAL	460.2000 INCENTIVE DENSITY HMA PAVEMENT DOL	450.4000 HMA COLD WEATHER PAVING TON	460.5223 HMA PAVEMENT 3 LT 58-28 S TON	460.5224 HMA PAVEMENT 4 LT 58-28 S TON
1000	EAST FRONTAGE ROAD									
		5791+00	-	5836+48	1,723	878	3,630	1,418	3,351	2,320
		UNDISTRIBUTED			--	--	--	--	--	--
		TOTALS		(I.D. 1033-02-77)	1,723	878	3,630	1,418	3,351	2,320

ASPHALTIC FLUMES

CATEGORY	ROADWAY	STA.	LOCATION	465.0315 ASPHALTIC FLUMES SY
1000	EAST FRONTAGE ROAD			
		5814+15	RT	14
		5818+60	LT	20
		5819+59	RT	16
		TOTAL	(I.D. 1033-02-77)	50

CONCRETE MASONRY ENDWALLS

CATEGORY	ROADWAY	STATION	504.0900 CONCRETE MASONRY ENDWALLS CY	REMARKS
1000				
	EAST FRONTAGE ROAD			
		5805+85 RT	2.1	TWIN 30" SSPRC
	TOTALS (I.D. 1033-02-77)		2.1	

DRIVEWAY CULVERT ITEMS

CATEGORY	ROADWAY	STATION	OFFSET	ELEVATION	SLOPE	520.3318 CULVERT PIPE CLASS III-A 18-INCH LF	520.3324 CULVERT PIPE CLASS III-A 24-INCH LF	520.3330 CULVERT PIPE CLASS III-A 30-INCH LF	521.1618 APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS STEEL 10 TO 1 18-INCH EACH	521.1624 APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS STEEL 10 TO 1 24-INCH EACH	521.1630 APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS STEEL 10 TO 1 30-INCH EACH	THICKNESS (INCHES) STEEL
1000	EAST FRONTAGE ROAD											
		5820+69	38.0' RT	763.47	1.04%	--	58	--	--	2	--	0.064
		5825+35	56.4' RT	761.63	0.74%	--	--	80	--	--	2	0.079
		5828+38	52.5' RT	763.83	0.73%	106	--	--	2	--	--	0.064
		TOTALS (I.D. 1033-02-77)				106	58	80	2	2	2	

NOTE
1) PIPE OFFSETS AND ELEVATIONS ARE TO THE CENTERLINE AND INVERT OF PIPE.
2) PIPE LENGTHS ARE FROM END OF PIPE TO END OF PIPE AND DOES NOT INCLUDE LENGTH OF APRON ENDWALL

CROSS CULVERT ITEMS

CATEGORY	ROADWAY	STATION	INLET END OFFSET	INLET END ELEV	DISCHARGE END STATION	DISCHARGE END OFFSET	DISCHARGE END ELEV	DISCHARGE END STATION	SLOPE	522.0124 CULVERT PIPE REINFORCED CONCRETE CLASS III 24-INCH LF	*522.1024 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH EACH	* 633.5200 MARKERS CULVERT END EACH
1000												
	EAST FRONTAGE ROAD											
		5829+00	48.9' LT	765.37	5829+00	49.9' RT	764.34	5829+00	1.18%	88	2	2
	TOTALS (I.D. 1033-02-77)									88	2	2

NOTES
1) STATION OFFSETS SHOWN ARE TO THE CENTER OF INLET STRUCTURES OR END OF PIPE (NOT THE APRON END OF ENDWALLS).
2) PIPE LENGTH IS FROM END OF PIPE TO END OF PIPE AND DOES NOT INCLUDE LENGTH OF APRON ENDWALL.

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

3

CONCRETE CURB AND GUTTER ITEMS

CATEGORY	ROADWAY	STA	TO	STA	LOCATION	601.0553 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D LF
1000	EAST FRONTAGE ROAD					
		5814+25	-	5819+50	RT	525
		5791+00	-	5818+50	LT	2,750
		TOTALS		(I.D. 1033-02-77)		3,275

DRAIN TILE

CATEGORY	LOCATION	SPV.0200.002 MANHOLES 4-FT DIAMETER SPECIAL VF	*611.0535 MANHOLE COVERS TYPE J-SPECIAL EACH	608.0512 STORM SEWER PIPE REINFORCED CONCRETE CLASS V 12-INCH LF	612.0700 DRAIN TILE EXPLORATION LF
	UNDISTRIBUTED	24	4	200	200
	TOTAL (I.D. 1033-02-77)	24	4	200	200

NOTE
* ADDITIONAL QUANTITIES SHOWN ELSEWHERE.

3

EROSION CONTROL ITEMS

CAT	ROADWAY	606.0100 RIPRAP LIGHT CY	606.0200 RIPRAP MEDIUM CY	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	*628.1905 MOBILIZATIONS EROSION CONTROL EACH	*628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH	*628.2004 EROSION MAT CLASS I TYPE B SY	628.2008 EROSION MAT URBAN CLASS I TYPE B SY	*628.7005 INLET PROTECTION TYPE A EACH	628.7015 INLET PROTECTION TYPE C EACH	628.7020 INLET PROTECTION TYPE D EACH	*628.7504 TEMPORARY DITCH CHECKS LF	*628.7555 CULVERT PIPE CHECKS EACH	628.7570 ROCK BAGS EACH	645.0120 GEOTEXTILE TYPE HR SY	645.0130 GEOTEXTILE TYPE R SY	SPV.0090.084 HEAVY DUTY SILT FENCE LF	SPV.0090.085 TEMPORARY DITCH CHECK ROCK BAGS SINGLE LAYER LF	SPV.0090.086 TEMPORARY DITCH CHECK ROCK BAGS DOUBLE LAYER LF
1000	EAST FRONTAGE ROAD	74	184	3,471	3,471	–	–	9,089	1,408	19	10	--	160	141	35	540	749	649	–	–
	UNDISTRIBUTED	20	47	870	870	4	4	2,273	357	5	3	4	40	35	55	137	175	163	40	40
	TOTALS (I.D. 1033-02-77)	94	231	4,341	4,341	4	4	11,362	1,765	24	13	4	200	176	90	677	924	812	40	40

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

PIPE UNDERDRAIN ITEMS

CATEGORY	ROADWAY	STATIO - STATION	OFFSET	612.0106 PIPE UNDERDRAIN 6-INCH LF	612.0206 PIPE UNDERDRAIN UNPERFORATED 6-INCH LF	612.0806 APRON ENDWALLS FOR UNDERDRAIN REINFORCED CONCRETE 6-INCH EACH	645.0111 GEOTEXTILE TYPE DF SCHEDULE A SY	646.0805.S PAVEMENT MARKING OUTFALL EACH
1000	EAST FRONTAGE ROAD							
		5791+50 - 5793+37	LT	187	--	--	104	--
		5793+90 - 5796+38	LT	248	--	--	138	--
		5796+90 - 5798+97	LT	207	--	--	115	--
		5799+50 - 5801+00	LT	150	--	--	83	--
		5801+50 - 5802+94	LT	144	--	--	80	--
		5803+45 - 5806+05	LT	260	--	--	144	--
		5806+05 - 5808+10	LT	205	--	--	114	--
		5808+61 - 5811+00	LT	239	--	--	133	--
		5811+50 - 5813+80	LT	230	--	--	128	--
		5814+30 - 5816+50	LT	220	--	--	122	--
		5814+30 - 5816+50	RT	220	--	--	122	--
		5817+50 - 5818+70	LT	120	--	--	67	--
		5817+50 - 5820+30	RT	280	--	--	156	--
		5818+70	LT	–	10	1	–	1
		5820+30	RT	–	10	1	–	1
		TOTALS (I.D. 1033-02-77)		2,710	20	2	1,506	2

3

MAINTENANCE AND REPAIR OF HAUL ROADS

CATEGORY	STAGE		618.0100.010 EACH
1000	ALL		
		EAST FRONTAGE ROAD	1
		TOTAL (I.D. 1033-02-77)	1

SALVAGED RAIL ITEMS

CATEGORY	ROADWAY	STA	TO	STA	OFFSET	614.0920 SALVAGED RAIL LF	614.0925 SALVAGED GUARDRAIL END TREATMENTS EACH
1000	EAST FRONTAGE ROAD						
		5816+67	-	5830+67	LT	1,410	2
		TOTALS (I.D. 1033-02-77)				1,410	2

3

FENCING

CATEGORY	ROADWAY	STA	TO	STA	LOCATION	616.0100 FENCE WOVEN WIRE 4-FT LF
1000	EAST FRONTAGE ROAD					
		5792+20	-	5793+55	LT	135
		5798+80	-	5799+20	LT	40
		5800+80	-	5801+20	LT	40
		5802+75	-	5803+25	LT	50
		5805+55	-	5806+35	LT	80
		5811+20	-	5830+15	LT	1,915
		TOTAL (I.D. 1033-02-77)				2,260

FENCE SAFETY

CATEGORY	ROADWAY	616.0700.S FENCE SAFETY LF
1000	UNDISTRIBUTED	430
	TOTAL (I.D. 1030-02-77)	430

MOBILIZATION

CATEGORY	STAGE		619.1000 EACH
1000	ALL		
		PROJECT ID 1033-02-77	0.1
		TOTAL (I.D. 1033-02-77)	0.1

SECTION CORNER MONUMENTS

CATEGORY	ROADWAY	LOCATION	DESCRIPTION	SPV.0060.091 EACH
1000	EAST FRONTAGE ROAD			
		SEC3091	SECTION CORNER	1
		TOTALS (I.D. 1033-02-77)		1

3

DUST CONTROL SURFACE TREATMENT

CATEGORY	ROADWAY	623.0200 SY
1000	EAST FRONTAGE ROAD	44,500
	TOTAL (I.D. 1033-02-77)	44,500

WATER ITEMS

CATEGORY	ROADWAY	624.0100 WATER MGAL
1000	EAST FRONTAGE ROAD	270
	TOTALS (I.D. 1033-02-77)	270

3

RESTORATION ITEMS

CATEGORY	ROADWAY	625.0500 SALVAGED TOPSOIL SY	627.0200 MULCHING SY	628.6510 SOIL STABILIZER TYPE B ACRE	SPV.0030.001 FERTILIZER TYPE B SPECIAL CWT	SPV.0085.002 SEEDING MIX NO. 30 SPECIAL LB	630.0140 SEEDING MIX NO. 40 LB	630.0200 SEEDING TEMPORARY LB
1000	EAST FRONTAGE ROAD	29,000	22,800	–	18	555	154	786
	UNDISTRIBUTED	–	5,700	3.0	5	145	16	171
	TOTALS (I.D. 1033-02-77)	29,000	28,500	3.0	23	700	170	960

TRACKING PADS

CATEGORY	ROADWAY	LOCATION	628.7560 TRACKING PADS EACH
1000	EAST FRONTAGE ROAD		
		NORTH PROJECT LIMITS	1
		SOUTH PROJECT LIMITS	1
		TOTALS (I.D. 1033-02-77)	2

DELINEATORS

CATEGORY	ROADWAY	LOCATION	STA	TO	STA	633.0100 DELINEATOR POSTS STEEL EACH	633.0500 DELINEATOR REFLECTORS EACH
1000	EAST FRONTAGE ROAD						
		LT - SOUTHBOUND	5826+00	-	5835+00	10	20
		TOTALS (I.D. 1033-02-77)				10	20

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PERMANENT SIGNING SUMMARY

CATEGORY	SIGN NO.	CODE NO.	SIGN MESSAGE	COMMENTS	SIZE INCH		INCH	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	STATION	LOCATION	634.0614 POSTS WOOD 4x6-INCH x 14-FT EACH	634.0616 POSTS WOOD 4x6-INCH x 16-FT EACH	638.2102 MOVING SIGNS TYPE II EACH
1000	1P01	R2-1(2)	SPEED LIMIT	55 MPH	24	x	30	5.00	--	5791+00	RT	1	--	--
	3P01	W3-5 (2)	SPEED LIMIT AHEAD SYMBOL	35 MPH	36	x	36	--	9.00	5819+00	RT	--	1	--
	3P02	W14-3 (2)	NO PASSING ZONE		48	x	36	--	6.00	5821+50	LT	1	--	--
	3P03	R2-1(2)	SPEED LIMIT	55 MPH	24	x	30	5.00	--	5826+50	LT	1	--	--
	3P04	W1-4R (2)	REVERSE CURVE		36	x	36	--	9.00	5825+00	RT	--	1	--
	3P05	R2-1(2)	SPEED LIMIT	35 MPH	24	x	30	5.00	--	5826+50	RT	1	--	--
	3P06	W1-6 (2)	NIGHT ARROW		48	x	24	--	8.00	5828+50	LT	1	--	--
	4M01	W14-3 (2)	NO PASSING ZONE		48	x	36	--	--	3846+00	RT	--	--	1
	4P02	W1-6 (2)	NIGHT ARROW		48	x	24	--	8.00	5833+00	LT	1	--	--
	TOTALS	(I.D. 1033-02-77)						15.00	40.00			6	2	1

REMOVING SIGNS

CATEGORY	ROADWAY	SIGN NO.	STATION	LOCATION	SAME POST AS SIGN NO.	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	SIGN MESSAGE
1000	EAST FRONTAGE ROAD							
		2R01	5805+82	LT	--	1	1	DO NOT ENTER
		2R02	5805+82	LT	2R01	1	--	EXCEPT MAINTENANCE AND POLICE AUTHORIZED VEHICLES
		3R01	5822+49	RT	--	1	1	REDUCED SPEED AHEAD
		3R02	5822+49	RT	3R01	1	--	35 M.P.H.
		3R03	5823+92	LT	--	1	1	NO PASSING ZONE
		3R04	5826+86	RT	--	1	1	SPEED LIMIT 35
		3R05	5827+00	LT	--	1	1	SPEED LIMIT 55
		4R01	5833+77	RT	--	1	1	SPEED LIMIT 35
		4R02	5833+95	LT	--	1	1	SPEED LIMIT 55
		TOTALS (I.D. 1033-02-77)				9	7	

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TRAFFIC CONTROL (PROJECT)

CATEGORY	ROADWAY	643.0100.032 TRAFFIC CONTROL 1033-02-77 EACH
1000	EAST FRONTAGE ROAD	1
	TOTALS (I.D. 1033-02-77)	1

TRAFFIC CONTROL ITEMS

CATEGORY	LOCATION	STAGE DURATION DAYS	*643.0300 TRAFFIC CONTROL DRUMS NO.	*643.0300 TRAFFIC CONTROL DRUMS DAYS	643.0420 TRAFFIC CONTROL BARRICADES TYPE III NO.	643.0420 TRAFFIC CONTROL BARRICADES TYPE III DAYS	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A NO.	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A DAYS	*643.0900 TRAFFIC CONTROL SIGNS NO.	*643.0900 TRAFFIC CONTROL SIGNS DAYS	643.1000 TRAFFIC CONTROL SIGNS FIXED MESSAGE SF	643.1050 TRAFFIC CONTROL SIGNS PCMS NO.	643.1050 TRAFFIC CONTROL SIGNS PCMS DAYS
1000	EAST FRONTAGE ROAD	108	18	1,944	5	540	10	1,080	4	432	76.50	–	--
	UNDISTRIBUTED	108	5	486	2	135	3	270	1	108	--	2	24
	TOTALS (I.D. 1033-02-77)			2,430		675		1,350		540	76.50		24

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

PROJECT NO: 1033-02-77	HWY: IH 94	COUNTY: RACINE	MISCELLANEOUS QUANTITIES: EAST FRONTAGE ROAD	SHEET 76	E

3

PAVEMENT MARKING

CATEGORY	DESCRIPTION	STATION	646.0106 PAVEMENT MARKING EPOXY 4-INCH YELLOW LF	646.2304.S PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH WHITE LF
1000	RIGHT EDGE OF PAVEMENT	5791+00 - 5836+44	--	4,540
	LEFT EDGE OF PAVEMENT	5791+00 - 5836+44	--	4,555
	CENTER LINE	5791+00 - 5818+00	675	–
	CENTER LINE (PASSING-LT)	5818+50 - 5829+00	263	–
	CENTER LINE (NO PASSING-RT)	5818+50 - 5829+00	1,050	–
	CENTER LINE (DOUBLE)	5829+00 - 5836+44	1,488	–
	SUBTOTALS		3,476	9,095
	TOTAL (I.D. 1033-02-77)		3,476	9,095

LOCATING NO PASSING ZONES

CATEGORY	ROADWAY	START	END	648.0100 MI
1000	EAST FRONTAGE ROAD	5791+00 -	5836+44	0.86
	TOTAL (I.D. 1033-02-77)			0.86

SAW CUTTING ITEMS

CATEGORY	ROADWAY	STA	LOCATION	690.0150 SAWING ASPHALT LF	690.0250 SAWING CONCRETE LF	DESCRIPTION
1000	EAST FRONTAGE ROAD					
		5804+33	RT	36	--	DRIVEWAY
		5809+33	RT	35	--	DRIVEWAY
		5810+76	RT	–	29	DRIVEWAY
		5814+69	RT	–	31	DRIVEWAY
		5816+26	RT	30	--	DRIVEWAY
		5820+69	RT	33	--	DRIVEWAY
		5825+35	RT	29	--	DRIVEWAY
		5836+48	LT & RT	34	--	ROADWAY MATCH
		TOTALS (I.D. 1033-02-77)		197	60	

FIELD FACILITIES OFFICE SPACE

CATEGORY	ROADWAY	SPV.0060.088 EACH
1000	EAST FRONTAGE ROAD	0.1
	TOTAL (I.D. 1033-02-77)	0.1

PAVEMENT CLEANUP PROJECT 1033-02-77

CATEGORY	ROADWAY	SPV.0075.033 HRS
1000	EAST FRONTAGE ROAD	20
	TOTAL (I.D. 1033-02-77)	20

3

SALVAGING EXISTING ACCESSS GATE

CATEGORY	ROADWAY	STA	LOCATION	SPV.0060.006 SALVAGING EXISTING ACCESS GATE EACH
1000	EAST FRONTAGE ROAD	5805+97	LT	1
	TOTAL (I.D. 1033-02-77)			1

SURVEY PROJECT

CATEGORY	ROADWAY	SPV.0105.032 SURVEY PROJECT 1033-02-77 LS
1000	EAST FRONTAGE ROAD	1
	TOTAL (I.D. 1033-02-77)	1

STORM SEWER ITEMS

CATEGORY	STRUCTURE NUMBER	STATION	OFFSET FT		611.2003 MANHOLES 3-FT Dia EACH	611.2004 MANHOLES 4-FT DIA EACH	611.2005 MANHOLES 5-FT DIA EACH	611.2007 MANHOLES 7-FT DIA EACH	611.3230 INLETS 2x3-FT EACH	611.3253 INLETS 2.5x3-FT EACH	611.3901 INLETS MEDIAN 1 GRATE EACH	611.3902 INLETS MEDIAN 2 GRATE EACH	611.0535 MANHOLE COVERS TYPE J SPECIAL EACH	611.0627 INLET COVERS TYPE HM EACH	611.0642 INLET COVERS TYPE MS EACH	RIM OR FLANGE ELEV	STR DEPTH FT	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE
1000	14 EAST FRONTAGE ROAD																					
	500	5825+92	38.15	LT		--	--	--	--	--	--	--	--	--	--	--	--	--	500	501	762.47	762.04	0.47%
	501	5825+95	42.34	RT		--	--	--	--	--	--	--	--	--	--	--	--	--	501	OUTFALL	762.04	--	--
	501A	5824+87	61.92	RT		--	--	--	--	--	--	--	--	--	--	--	--	--	501A	EXISTING	--	--	--
	502	5821+00	31.75	LT	--	1	--	--	--	--	--	--	1	--	--	766.26	3.79	502	503	761.39	760.77	0.50%
	502A	5820+50	34.50	LT		--	--	--	--	--	--	--	--	--	--	--	--	502A	502	762.50	762.25	0.49%
	503	5822+23	31.38	LT	--	--	1	--	--	--	--	--	1	--	--	766.96	5.11	503	504	760.77	760.53	0.50%
	503A	5822+23	30.54	LT		--	--	--	--	--	--	--	--	--	--	--	--	503A	503	761.42	761.35	1.00%
	508	5814+30	15.04	RT	--	--	--	--	1	--	--	--	--	1	--	767.61	33.08	508	509	733.70	733.50	0.33%
	509	5814+31	22.96	LT	--	--	--	--	1	--	--	--	--	1	--	767.62	3.35	509	510	763.44	763.31	0.50%
	510	5814+31	49.00	LT		--	--	--	--	--	--	--	--	--	--	--	--	510	OUTFALL	763.31	--	--
	511	5811+50	21.37	LT	--	--	--	--	1	--	--	--	--	1	--	765.96	2.01	511	512	763.12	762.97	0.52%
	512	5811+50	50.44	LT		--	--	--	--	--	--	--	--	--	--	--	--	512	OUTFALL	762.97	--	--
	513	5811+04	24.39	RT	--	--	--	--	--	--	1	--	--	--	1	764.12	2.94	513	514	761.18	760.46	0.50%
	514	5809+60	27.90	RT	--	--	--	--	--	--	1	--	--	--	1	763.20	2.74	514	515	760.46	760.20	0.36%
	515	5808+87	35.45	RT		--	--	--	--	--	--	--	--	--	--	--	--	515	OUTFALL	760.20	--	--
	516	5808+61	19.74	LT	--	--	--	--	1	--	--	--	--	1	--	764.25	3.03	516	517	760.39	760.12	0.51%
	517	5808+61	33.81	RT		--	--	--	--	--	--	--	--	--	--	--	--	517	OUTFALL	760.12	--	--
	518	5807+50	37.57	RT		--	--	--	--	--	--	--	--	--	--	--	--	518	519	759.18	758.92	0.46%
	519	5806+93	30.27	RT	--	1	--	--	--	--	--	--	1	--	--	763.04	21.16	519	520	740.80	740.42	0.20%
	520	5806+50	38.95	RT		--	--	--	--	--	--	--	--	--	--	--	--	520	OUTFALL	758.47	--	--
	521	5805+87	30.50	LT	--	--	1	--	--	--	--	--	1	--	--	763.69	4.38	521	525	758.23	758.19	0.33%
	521A	5805+87	40.25	LT		--	--	--	--	--	--	--	--	--	--	--	--	521A	521	758.26	758.23	0.33%
	521B	5805+95	31.53	LT		--	--	--	--	--	--	--	--	--	--	--	--	521B	521	758.25	758.23	0.25%
	522	5805+81	35.62	LT	--	--	1	--	--	--	--	--	1	--	--	763.75	4.42	522	FREE_EXT	758.25	757.50	1.03%
	522A	5805+81	44.57	LT		--	--	--	--		--	--	--	--	--	--	--	522A	522	758.28	758.25	0.38%
	523	5806+25	18.00	LT	--	1	--	--	--	--	--	--	--	1	--	763.08	2.75	523	545	759.50	759.40	0.50%
	524	5806+05	18.00	LT	--	1	--	--	--	--	--	--	--	1	--	763.04	2.81	524	525	759.40	759.30	0.56%
	525	5805+87	18.19	LT	--	--	1	--	--	--	--	--	--	1	--	763.03	4.01	525	526	758.19	757.50	1.28%
	526	5805+84	35.77	RT		--	--	--	--	--	--	--	--	--	--	--	--	526	OUTFALL	757.50	--	--
	527	5805+78	37.30	RT		--	--	--	--	--	--	--	--	--	--	--	--	527	OUTFALL	757.50	--	--
	528	5801+07	45.01	LT		--	--	--	--	--	--	--	--	--	--	--	--	528	529	758.70	758.09	2.35%
	529	5801+00	15.43	LT	--	1	--	--	--	--	--	--	--	1	--	764.69	5.77	529	530	758.09	757.54	0.00%
	530	5800+89	49.02	RT		--	--	--	--	--	--	--	--	--	--	--	--	530	OUTFALL	757.54	--	--
	531	5798+98	36.87	LT	--	--	--	--	--	--	--	--	1	--	--	764.07	5.74	531	532A	757.25	757.18	0.00%
	531A	5799+06	40.16	LT		--	--	--	--	--	--	--	--	--	--	--	--	531A	531	757.29	757.25	0.50%

STORM SEWER ITEMS

CATEGORY	STRUCTURE NUMBER	STATION	OFFSET FT		611.2003 MANHOLES 3-FT Dia EACH	611.2004 MANHOLES 4-FT DIA EACH	611.2005 MANHOLES 5-FT DIA EACH	611.2007 MANHOLES 7-FT DIA EACH	611.3230 INLETS 2x3-FT EACH	611.3253 INLETS 2.5x3-FT EACH	611.3901 INLETS MEDIAN 1 GRATE EACH	611.3902 INLETS MEDIAN 2 GRATE EACH	611.0535 MANHOLE COVERS TYPE J SPECIAL EACH	611.0627 INLET COVERS TYPE HM EACH	611.0642 INLET COVERS TYPE MS EACH	RIM OR FLANGE ELEV	STR DEPTH FT	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE
1000	14 EAST FRONTAGE ROAD																					
	531B	5798+98	48.97	LT		--	--	--	--	--	--	--	--	--	--	--	--	531B	531	757.71	757.67	0.44%
	532A	5798+98	15.86	LT	--	1	--	--	--	--	--	--	--	1	--	765.40	7.39	532A	532	757.18	756.97	0.00%
	532	5798+98	50.12	RT		--	--	--	--	--	--	--	--	--	--	--	--	532	OUTFALL	756.97	--	--
	533	5796+38	17.35	LT	--	--	--	--	1	--	--	--	--	1	--	766.31	2.82	533	534	762.66	762.44	0.42%
	534	5796+38	35.61	RT		--	--	--	--	--	--	--	--	--	--	--	--	534	OUTFALL	762.44	--	--
	535A	5793+38	44.20	LT		--	--	--	--	--	--	--	--	--	--	--	--	535A	535	759.61	759.57	0.50%
	535	5793+38	36.28	LT	--	--	--	--	--	--	--	--	1	--	--	767.02	6.37	535	535B	759.57	759.50	0.00%
	535B	5793+38	18.98	LT	--	--	--	--	--	--	--	--	--	1	--	767.42	7.09	535B	536	759.50	759.17	0.00%
	536	5793+37	50.04	RT		--	--	--	--	--	--	--	--	--	--	--	--	536	OUTFALL	759.17	--	--
	536A	5793+48	39.45	RT		1	--	--	--	--	--	--	1	--	--	--	--	536A	EXISTING	--	--	--
	537	5792+50	47.98	LT		--	--	--	--	--	--	--	--	--	--	--	--	537	537A	763.20	763.07	1.00%
	537A	5792+50	35.00	LT	--	--	--	--	--	--	1	--	--	--	1	766.64	6.18	537A	538	760.46	759.58	1.00%
	538	5792+50	52.96	RT		--	--	--	--	--	--	--	--	--	--	--	--	538	OUTFALL	759.58	--	--
	539B	5790+46	36.74	LT		--	--	--	--	--	--	--	--	--	--	--	--	539B	539A	761.97	761.93	0.50%
	539A	5790+54	36.20	LT	--	--	--	--	--	--	--	1	--	--	2	767.80	5.87	539A	539	761.93	761.75	0.31%
	539	5791+10	19.00	LT	--	--	1	--	--	--	--	--	--	1	--	768.70	6.12	539	540	761.75	761.47	0.43%
	540	5791+10	47.03	RT		--	--	--	--	--	--	--	--	--	--	--	--	540	OUTFALL	761.47	--	--
	541	5793+28	27.00	LT		--	--	--	--	--	--	--	--	--	--	--	--	541	542	759.51	759.22	0.38%
	542	5793+28	50.03	RT		--	--	--	--	--	--	--	--	--	--	--	--	542	OUTFALL	759.22	--	--
	543	5805+73	36.59	LT		--	--	--	--	--	--	--	--	--	--	--	--	543	522	758.58	758.54	0.50%
	545	5802+94	16.53	LT	--	--	--	--	1	--	--	--	--	1	--	764.01	1.93	545	546	761.25	761.15	0.43%
	546	5802+94	38.54	LT		--	--	--	--	--	--	--	--	--	--	--	--	546	OUTFALL	761.90	--	--
					0	7	5	--	6	--	3	1	8	13	5							

NOTES

1) APRON ENDWALLS: STATIONS AND OFFSETS ARE TO THE APRON END OF ENDWALLS.
2) PIPE LENGTHS ARE MEASURED TO THE CENTER OF STRUCTURES OR TO THE APRON END OF ENDWALLS (INCLUDES LENGTH OF AEW).
3) MANHOLES AND INLETS: RIM ELEVATIONS, STATIONS AND OFFSETS ARE GIVEN AT THE CENTER OF CASTING
4) STRUCTURE DEPTH = RIM ELEVATION - INVERT - CASTING HEIGHT ADJUSTMENT
   CASTING HEIGHT = 0.75 FT FOR J COVERS; 0.5 FT FOR TYPE HM AND S COVERS; 0 FT FOR TYPE MS COVERS
   ADJUSTMENT (RINGS) = 0.33 FT FOR J, HM AND S COVERS; 0 FT FOR TYPE MS COVERS
5) FLAT TOP SLAB WITH CENTERED 24" X 36" RECTANGULAR OPENING REQUIRED ON MANHOLES WITH TYPE HM INLET COVERS

STORM SEWER ITEMS

CATEGORY	STRUCTURE NUMBER	STATION	OFFSET FT		608.0412 12-INCH LF	608.0415 15-INCH LF	608.0418 18-INCH LF	608.0424 24-INCH LF	608.0430 30-INCH LF	608.0436 36-INCH LF	610.0129 29x45-INCH LF	610.0134 34x53-INCH LF	522.1015 15-INCH EACH	522.1018 18-INCH EACH	522.1024 24-INCH EACH	522.1030 30-INCH EACH	522.1036 36-INCH EACH	523.0524 24X38-INCH EACH	523.0529 29X45-INCH EACH	523.0534 34x53-INCH EACH	520.8000 CONCRETE COLLARS FOR PIPE EACH	611.9800.S PIPE GRATES EACH	633.5200 MARKERS CULVERT END EACH	204.0280 SEALING PIPES EACH	NOTES
					STORM SEWER PIPE REINFORCED CONCRETE CLASS IV						STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-III		APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE					APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL							
1000	14 EAST FRONTAGE ROAD																								
	500	5825+92	38.15	LT		--	--	91	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	SEAL PIPES AT 500
	501	5825+95	42.34	RT		--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	1	--	
	501A	5824+87	61.92	RT		--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--	INSTALL NEW 15" AEW ON EXIST PIPE
	502	5821+00	31.75	LT	--	--	--	123	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	502A	5820+50	34.50	LT		--	51	--	--	--	--	--	--	1	--	--	--	--	--	--	--	1	1	--	
	503	5822+23	31.38	LT	--	--	--	48	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	503A	5822+23	30.54	LT		--	--	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	SEAL PIPES AT 503A
	508	5814+30	15.04	RT	--	--	--	--	60	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	509	5814+31	22.96	LT	--	26	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	510	5814+31	49.00	LT		--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--	
	511	5811+50	21.37	LT	--	29	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	512	5811+50	50.44	LT		--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--	
	513	5811+04	24.39	RT	--	144	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	SINGLE SLOPE GRATE
	514	5809+60	27.90	RT	--	73	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	SINGLE SLOPE GRATE
	515	5808+87	35.45	RT		--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--	
	516	5808+61	19.74	LT	--	53	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	517	5808+61	33.81	RT		--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--	
	518	5807+50	37.57	RT		--	57	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	1	--	
	519	5806+93	30.27	RT	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	520	5806+50	38.95	RT		--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	1	--	
	521	5805+87	30.50	LT	--	--	--	--	12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	521A	5805+87	40.25	LT		--	--	--	9	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	SEAL PIPES AT 521A
	521B	5805+95	31.53	LT		--	--	--	8	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	SEAL PIPES AT 521B
	522	5805+81	35.62	LT	--	--	--	--	72	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	
	522A	5805+81	44.57	LT		--	--	--	8	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	SEAL PIPES AT 522A
	523	5806+25	18.00	LT	--	20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	524	5806+05	18.00	LT	--	18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	525	5805+87	18.19	LT	--	--	--	--	54	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	526	5805+84	35.77	RT		--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	1	--	SEE NOTE 5
	527	5805+78	37.30	RT		--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	1	--	MASONRY ENDWALL REQUIRED
	528	5801+07	45.01	LT		--	--	--	--	--	26	--	--	--	--	--	--	--	--	1	--	--	1	--	MASONRY ENDWALL REQUIRED
	529	5801+00	15.43	LT	--	--	--	--	--	--	66	--	--	--	--	--	--	--	--	--	--	--	--	--	
	530	5800+89	49.02	RT		--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	1	--	SEE NOTE 5
	531	5798+98	36.87	LT	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	531A	5799+06	40.16	LT		--	--	--	--	--	8	--	--	--	--	--	--	--	--	--	--	1	--	--	1	SEAL PIPE AT 531A

STORM SEWER ITEMS

CATEGORY	STRUCTURE NUMBER	STATION	OFFSET		608.0412 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 12-INCH LF	608.0415 15-INCH LF	608.0418 18-INCH LF	608.0424 24-INCH LF	608.0430 30-INCH LF	608.0436 36-INCH LF	610.0129 STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-III 29x45-INCH LF	610.0134 34x53-INCH LF	522.1015 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 15-INCH EACH	522.1018 18-INCH EACH	522.1024 24-INCH EACH	522.1030 30-INCH EACH	522.1036 36-INCH EACH	523.0524 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 24X38-INCH EACH	523.0529 29X45-INCH EACH	523.0534 34x53-INCH EACH	520.8000 CONCRETE COLLARS FOR PIPE EACH	611.9800.S PIPE GRATES EACH	633.5200 MARKERS CULVERT END EACH	204.0280 SEALING PIPES EACH	NOTES
1000	14 EAST FRONTAGE ROAD																								
	531B	5798+98	48.97	LT		--	--	9		--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	SEAL PIPE AT 531B
	532A	5798+98	15.86	LT	--	--	--	--	--	--	--	66	--	--	--	--	--	--	--	--	--	--	--	--	
	532	5798+98	50.12	RT		--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	1	--	
	533	5796+38	17.35	LT	--	--	--	53	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
3	534	5796+38	35.61	RT		--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	1	--	
	535A	5793+38	44.20	LT		--	--	--	--	--	8	--	--	--	--	--	--	--	--	--	1	--	--	--	CONNECT TO EXISTING LINED & GROUTED 36" CP
	535	5793+38	36.28	LT	--	--	--	--	--	--	17	--	--	--	--	--	--	--	--	--	--	--	--	--	
	535B	5793+38	18.98	LT	--	--	--	--	--	--	69	--	--	--	--	--	--	--	--	--	--	--	--	--	
	536	5793+37	50.04	RT		--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	1	--	
	536A	5793+48	39.45	RT		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	EFR QTYS ELSEWHERE
	537	5792+50	47.98	LT		--	13	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	1	--	
	537A	5792+50	35.00	LT	--	--	88	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	NO SLOPE GRATE
	538	5792+50	52.96	RT		--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	1	--	
	539B	5790+46	36.74	LT		--	--	8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	SEAL PIPE AT 539B
	539A	5790+54	36.20	LT	--	--	--	59	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	NO SLOPE GRATE
	539	5791+10	19.00	LT	--	--	--	66	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	540	5791+10	47.03	RT		--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	1	--	
	541	5793+28	27.00	LT		--	--	--	--	--	77	--	--	--	--	--	--	--	--	--	--	--	--	1	SEAL PIPE AT 541
	542	5793+28	50.03	RT		--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	1	--	
	543	5805+73	36.59	LT		--	--	8	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	1	SEAL PIPE AT 543
	545	5802+94	16.53	LT	--	23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	546	5802+94	38.54	LT		--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--	
					0	386	209	472	223	0	271	66	5	5	3	3	0	0	4	1	6	1	20	10	

NOTES
1) APRON ENDWALLS: STATIONS AND OFFSETS ARE TO THE APRON END OF ENDWALLS.
2) PIPE LENGTHS ARE MEASURED TO THE CENTER OF STRUCTURES OR TO THE APRON END OF ENDWALLS (INCLUDES LENGTH OF AEW).
3) MANHOLES AND INLETS: RIM ELEVATIONS, STATIONS AND OFFSETS ARE GIVEN AT THE CENTER OF CASTING
4) STRUCTURE DEPTH = RIM ELEVATION - INVERT - CASTING HEIGHT ADJUSTMENT
CASTING HEIGHT = 0.75 FT FOR J COVERS; 0.5 FT FOR TYPE HM AND S COVERS; 0 FT FOR TYPE MS COVERS
ADJUSTMENT (RINGS) = 0.33 FT FOR J, HM AND S COVERS; 0 FT FOR TYPE MS COVERS
5) FLAT TOP SLAB WITH CENTERED 24" X 36" RECTANGULAR OPENING REQUIRED ON MANHOLES WITH TYPE HM INLET COVERS

EAST FRONTAGE ROAD DITCH WORK

CATEGORY	ROADWAY	STATION	OFFSET	TO	STATION	OFFSET	204.0270 ABANDONING CULVERT PIPES EACH	*628.1905 MOBILIZATION EROSION CONTROL EACH	*628.1910 MOBILIZATION EMERGENCY EROSION CONTROL EACH	*628.2004 EROSION MAT CLASS I TYPE B SY	*628.7005 INLET PROTECTION TYPE A EACH	*628.7504 TEMPORARY DITCH CHECKS LF	*628.7555 CULVERT PIPE CHECKS EACH	SPV.0105.099 GRADING, SHAPING AND FINISHING DITCH CTH K TO CTH G LS
1000	CTH K TO CTH G EFR	5106+00	RT	–	5106+35	RT	2	1	1	61	1	30	20	1
	TOTALS						2	1	1	61	1	30	20	1

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

GRADING, SHAPING AND FINISHING DITCH CTH K TO CTH G EAST FRONTAGE ROAD ITEM INFORMATION**

ROADWAY	STATION	OFFSET	TO	STATION	OFFSET	208.0100 BORROW CY	625.0500 SALVAGED TOPSOIL SY	629.0210 FERTILIZER TYPE B CWT	630.0120 SEEDING MIXTURE NO. LB
CTH K TO CTH G EFR	5106+00	RT	–	5106+35	RT	31	61	0.04	2
TOTALS						31	61	0.04	2

**FOR INFORMATION ONLY

TRAFFIC CONTROL

CATEGORY	ROADWAY	STATION	OFFSET	TO	STATION	OFFSET	STAGE DURATION DAYS	*643.0300 TRAFFIC CONTROL DRUMS **NO.	*643.0300 TRAFFIC CONTROL DRUMS DAY	*643.0900 TRAFFIC CONTROL SIGNS **NO.	*643.0900 TRAFFIC CONTROL SIGNS DAY
1000	CTH K TO CTH G EFR	5106+00	RT	–	5106+35	RT	2	15	30	5	10
	TOTALS								30		10

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

** FOR INFORMATION ONLY

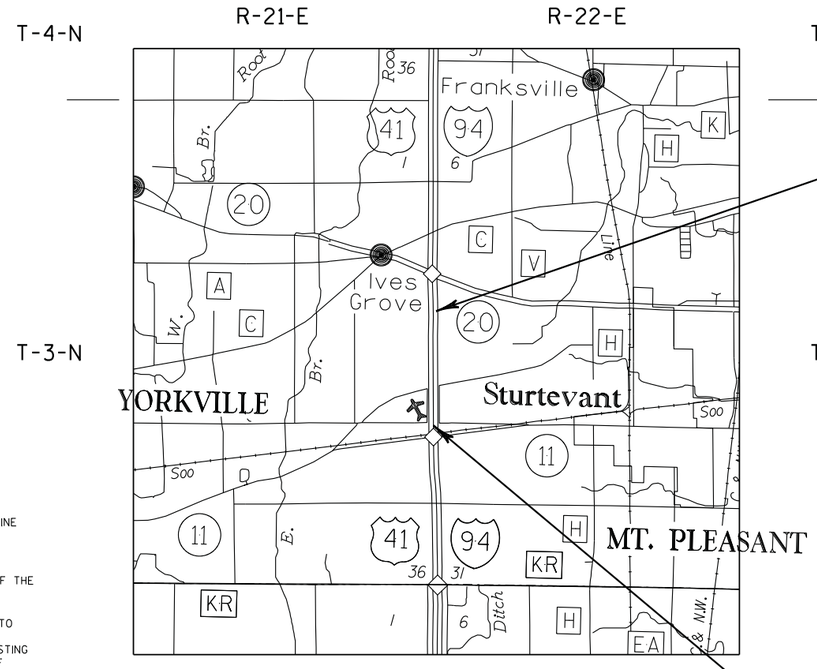
PROJECT NO: 1033-02-77	HWY: IH 94	COUNTY: RACINE	MISCELLANEOUS QUANTITIES: CTH K TO CTH G EFR	SHEET 83	E

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

TRANSPORTATION PROJECT PLAT TITLE SHEET

PROJECT NO. 1033-02-21

INTERSTATE 94
STH 11 TO STH 20
RACINE COUNTY



THE NOTES, CONVENTIONAL SYMBOLS, AND VARIOUS ABBREVIATIONS ARE ASSOCIATED WITH EACH TRANSPORTATION PROJECT PLAT OF PROJECT 1033-02-21.

NOTES:

COORDINATES AND BEARINGS ON THE PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, RACINE COUNTY, NAD 1983 (1997) ADJUSTMENT, ALL DISTANCES ARE GROUND LENGTH AND ARE REFERENCED TO GPS HARN POINTS PARIS E, YORKVILLE E AND RAYMOND S. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY WISCONSIN DOT SOUTHEAST REGION SURVEY.

ACCESS CONTROL ALONG WESTERLY RIGHT-OF-WAY LINE OF IH 94 / USH 41 IS PER PROJECT I-101-1(3)

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY OR OTHER SURVEYS OF RECORD.
PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. EXCLUDING RIGHT-OF-WAY BOUNDARIES, THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE. ALL TLES EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

A PERMANENT LIMITED EASEMENT (PLE) IS A RIGHT FOR CONSTRUCTION AND MAINTENANCE PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE, BUT WITHOUT PREJUDICE TO THE OWNER'S RIGHT TO MAKE OR CONSTRUCT IMPROVEMENT ON SAID LANDS OR TO FLATTEN THE SLOPES, PROVIDING SAID ACTIVITIES WILL NOT IMPAIR OR OTHERWISE ADVERSELY AFFECT THE HIGHWAY FACILITIES.

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO NEW REFERENCE LINES.

CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	REFERENCE LINE	R/L
ACCESS RIGHTS	AR	RELEASE OF RIGHTS	ROR
ACRES	AC.	REMAINING	REM.
AND OTHERS	ET.AL.	RIGHT-OF-WAY	R/W
CENTERLINE	C/L	SECTION	SEC.
CERTIFIED SURVEY MAP	CSM	STATION	STA.
CORNER	COR.	TEMPORARY LIMITED EASEMENT	TLE
DOCUMENT	DOC.	VOLUME	V.
EASEMENT	EASE.	**CURVE DATA**	
HIGHWAY EASEMENT	H.E.	LONG CHORD	LCH
LAND CONTRACT	LC	LONG CHORD BEARING	LCB
MONUMENT	MON.	RADIUS	R
PAGE	P.	DEGREE OF CURVE	D
PERMANENT LIMITED EASEMENT	PLE	CENTRAL ANGLE OR DELTA	DELTA
PROPERTY LINE	PL	LENGTH OF CURVE	L
RECORDED AS	(100')	TANGENT	TAN

CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN	⌀ (1" UNLESS NOTED)	PROPOSED R/W LINE
R/W MONUMENT	● (SET)	EXISTING H.E. LINE
R/W STANDARD	▲ (SET)	PROPERTY LINE
SIGN	SIGN	LOT & TIE LINES
SECTION CORNER MONUMENT		SLOPE INTERCEPTS
SECTION CORNER SYMBOL		CORPORATE LIMITS
FEE (HATCH VARIES)		NO ACCESS (BY PREVIOUS ACQUISITION/CONTROL)
TEMPORARY LIMITED EASEMENT		NO ACCESS (BY ACQUISITION)
PERMANENT LIMITED EASEMENT		NO ACCESS (BY STATUTORY AUTHORITY)
R/W BOUNDARY POINT	RWB20	SECTION LINE
PARCEL NUMBER	103	QUARTER LINE
UTILITY PARCEL NUMBER	92	SIXTEENTH LINE
SIGN NUMBER (OFF PREMISE)	21-1	EXISTING CENTERLINE
BUILDING		PROPOSED REFERENCE LINE
		PARALLEL OFFSET

CONVENTIONAL UTILITY SYMBOLS

WATER	W	
GAS	G	
TELEPHONE	T	
OVERHEAD	OH	
TRANSMISSION LINES ELECTRIC	E	
CABLE TELEVISION	TV	
FIBER OPTIC	FO	
SANITARY SEWER	SAN	
STORM SEWER	SS	
	NON COMPENSABLE	COMPENSABLE
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		
ELECTRIC TOWER		

THIS IS A COPY, ORIGINAL DOCUMENT IS FILED AT THE RACINE COUNTY REGISTER OF DEEDS

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1033-02-21 - 4.01
SHEET 2 OF 2
AMENDMENT NO:
Vol 1 Pg 191

TRANSPORTATION PROJECT PLAT NO: 1033-02-21 - 4.01

THAT PART OF THE NORTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 24 AND THAT PART OF LOT 1 OF CSM NO. 1142 AND LOT 2 OF CSM NO 1036 LOCATED IN AND INCLUDING THAT PART OF THE SOUTH EAST 1/4 OF THE NORTHEAST 1/4 OF SECTION 24 ALL IN TOWNSHIP 3 NORTH RANGE 21 EAST IN THE TOWN OF YORKVILLE AND THE SOUTHWEST 1/4 OF THE NORTHWEST 1/4 OF SECTION 19 TOWNSHIP 3 NORTH RANGE 22 EAST IN THE VILLAGE OF MOUNT PLEASANT, ALL IN RACINE COUNTY, WISCONSIN.

RELOCATION ORDER I-94, STH 11 TO STH 20 RACINE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

NOTES:

COORDINATES AND BEARINGS ON THE PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, RACINE COUNTY, NAD 1983 (1997) ADJUSTMENT, ALL DISTANCES ARE GROUND LENGTH AND ARE REFERENCED TO GPS HARN POINTS PARIS E, YORKVILLE E AND RAYMOND S.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY WISCONSIN DOT SOUTHEAST REGION SURVEY.

ACCESS CONTROL ALONG WESTERLY RIGHT-OF-WAY LINE OF IH 94 / USH 41 IS PER PROJECT I-101-1(3)

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY OR OTHER SURVEYS OF RECORD.

FOR THE LATEST ACCESS / DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

ACCESS CONTROL SHOWN ON THIS PLAT IS PER PROJECT I-101-1(3) AND CONTROLS ACCESS BETWEEN FREEWAY FACILITIES AND ADJACENT FRONTAGE ROADS / ADJACENT LANDS

THIS IS A COPY, ORIGINAL DOCUMENT IS FILED AT THE RACINE COUNTY REGISTER OF DEEDS

SCHEDULE OF LANDS & INTERESTS REQUIRED		OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.					
PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED ACRES NEW	EXISTING	TOTAL	TLE TEMP ACRES	PLE PERM ACRES
1	GEORGE A. & JOAN E. CICONA	AR TLE	--	--	--	0.034	--
2	DONALD UMBERGER	FEE AR	0.269	--	0.269	--	--
3	ROBERT A. GLEASON	AR TLE	--	--	--	0.072	--
4	DAVID T. & JOSEPH E. BORZYNSKI	AR TLE	--	--	--	0.037	--
5	THOMAS HRIBAR	FEE AR PLE TLE	0.520	3.128	3.648	0.041	0.196
100	WE ENERGIES - ELECTRIC	ROR	--	--	--	--	--
--	--	--	--	--	--	--	--

HWY	BASIS OF EXISTING R/W	YEAR	WIDTH
I-94	I 101-1(3)	1956	VARIES
I-94	DIVISION JOB 2382	1935	VARIES
LEETSBIR ROAD	CSM NO. 1036	1983	66'
56TH ROAD	RACINE & BURLINGTON TERRITORIAL ROAD	1846	66'

WEST FRONTAGE ROAD
PI STA. = 4797+00.00
Y = 178968.86
X = 593907.04
PC STA = 4795+12.84
PT STA. = 4798+87.12
DELTA = 01° 47'13"
D = 00°28'39"
L = 374.28
R = 12000.00'
LCH = 374.26'
LCB = N 00°35'50" E

WEST FRONTAGE ROAD
PI STA. = 4802+40.06
Y = 179508.77
X = 593921.09
PC STA = 4800+52.91
PT STA. = 4804+27.18
DELTA = 01°47'13"
D = 00°28'39"
L = 374.27'
R = 12000.00'
LCH = 374.26'
LCB = N 00°35'50" E

EAST FRONTAGE ROAD
PI STA. = 5800+36.09
Y = 179305.37
X = 594172.05
PC STA = 5799+67.72
PT STA = 5801+04.45
DELTA = 00°39'10"
D = 00°28'39"
L = 136.73'
R = 12000.00
LCH = 136.73'
LCB = N 00°07'36" W

LEETSBIR ROAD
PI STA. = 74+93.61
Y = 178811.83
X = 593612.61
PC STA = 74+61.65
PT STA. = 75+25.57
DELTA = 00°54'56"
D = 01°25'57"
L = 63.92
R = 4000.00'
LCH = 63.92'
LCB = N 89°38'13" E

56th ROAD
PI STA. = 48+53.84
Y = 177998.80
X = 593767.92
PC STA = 47+31.06
PT STA. = 49+76.43
DELTA = 5°37'24"
D = 2°17'31"
L = 245.37'
R = 2500.00'
LCH = 245.27
LCB = N 76°53'31" E

EAST FRONTAGE ROAD
PI STA. = 5793+50.00
Y = 178619.28
X = 594169.66
PC STA = 5793+15.60
PT STA. = 5793+84.40
DELTA = 00°19'43"
D = 00°28'39"
L = 68.80'
R = 12000.00
LCH = 68.80'
LCB = N 00°02'08" E

I-94
PI STA. = 805+08.21
Y = 179777.30
X = 594047.06
PC STA = 800+73.62
PT STA. = 809+42.80
DELTA = 00°21'44"
D = 00°02'30"
L = 869.17'
R = 137515.87'
LCH = 869.17'
LCB = N 00°16'19" W

CURVE A
R = 137515.87'
L = 358.08'
LCH = 358.08'
LCB = N 00°09'56" W

CAST IRON MONUMENT W/ BRASS CAP Y=1783634.46 X=594172.82

CAST IRON MONUMENT W/ BRASS CAP Y=1780337.47 X=594106.89

CONCRETE MONUMENT W/ BRASS CAP Y=1775696.15 X=594117.87

CAST IRON MONUMENT W/ BRASS CAP Y=1783638.73 X=594122.87

CONCRETE MONUMENT W/ BRASS CAP Y=1781312.92 X=596612.25

LOCATION MAP NTS

SHEET LOCATION

100 PARCEL 1 NO EASEMENT OF RECORD
PARCEL 5 NO EASEMENT OF RECORD

SCALE, FEET 0 100' 200'

Milwaukee Transportation Partners LLC

I, BRIAN M. DODGE, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1010 33-02-21- 4.01 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 7/26/2011 (SIGNATURE) Brian M. Dodge
BRIAN M. DODGE
AGENT FOR MILWAUKEE TRANSPORTATION PARTNERS, LLC
R.L.S. NUMBER 2848

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION SOUTHEAST REGION.

DATE 7-28-11 (SIGNATURE) O.E. Andersen
(PRINTED NAME) Craig Andersen

BRIAN M. DODGE S-2848 WAUKESHA, WI — WISCONSIN — LAND SURVEYOR

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1033-02-21 4.01
SHEET 1 OF 2
AMENDMENT NO:

DOCUMENT # 2292200
RACINE COUNTY REGISTER OF DEEDS
August 23, 2011 7:44 AM
TYSON FEITER
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: $25.00
Pages: 2
Vol 1 Pg 190 141

SEE TPP 1030-24-20 4.07
SEE TPP 1030-24-20 4.04
SEE TPP 1033-02-21-4.02

FILE NAME : S:\prelimPMwork\15.ProjBase\RW\Segment14_STH 11-STH 20 ROW Plat\cd\040401_rp.dgn PLOT DATE : 26-JUL-2011 15:20 PLOT BY : MSCBXD PLOT NAME : PLOT SCALE : 100:1

CONST. 1033-02-77/78/79 I-94 R/W 1033-02-85 .01

TRANSPORTATION PROJECT PLAT NO: 1033-02-21 - 4.02

THAT PART OF LOTS 1 AND 2 AND OUTLOT 1 OF CSM NO. 2919 BEING A PART OF THE NORTHEAST 1/4 OF THE NORTHEAST 1/4 OF SECTION 24, TOWNSHIP 3 NORTH, RANGE 21 EAST, AND THAT PART OF LOT 1 OF CSM NO. 2919, PARCEL 1 OF CSM NO. 2494, AND PARCEL 1 OF CSM NO. 2413 BEING A PART OF THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 13, TOWNSHIP 3 NORTH, RANGE 21 EAST ALL IN THE TOWN OF YORKVILLE, RACINE COUNTY, WISCONSIN; AND THAT PART OF NORTHWEST 1/4 OF THE NORTHWEST 1/4 OF SECTION 19, AND PART OF PARCEL 1 OF CSM NO. 1301 LOCATED IN AND INCLUDING THAT PART OF THE SOUTHWEST 1/4 OF THE SOUTHWEST 1/4 OF SECTION 18 ALL IN TOWNSHIP 3 RANGE 22 EAST IN THE VILLAGE OF MOUNT PLEASANT, RACINE COUNTY, WISCONSIN.

RELOCATION ORDER I-94, STH 11 TO STH 20 RACINE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

SCHEDULE OF LANDS & INTERESTS REQUIRED		OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.					
PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED ACRES NEW	EXISTING	TOTAL	TLE TEMP ACRES	PLE PERM ACRES
5	THOMAS HRIBAR	FEE, AR, TLE	--	0.013	0.013	0.004	--
6	HRIBAR CORPORATE CENTER, LLC	FEE, AR, PLE, TLE	0.270	1.087	1.357	0.200	0.013
7	THOMAS HRIBAR	FEE, AR, TLE	--	1.598	1.598	0.144	--
8	MLG/HIGHWAY 20 LIMITED PARTNERSHIP	AR	--	--	--	--	--
9	JOSEPH F & ANNA J. FOX	AR	--	--	--	--	--
10	RD RACINE, LLC	FEE, AR	0.162	--	0.162	--	--
11	GRANDVIEW BUSINESS PARK OWNER	AR	--	--	--	--	--
12	GRANDVIEW INTERSTATE CENTER ON	AR					
13	CENTERPOINT WISPARK LAND COMPANY, LLC	AR, TLE	--	--	--	0.002	--
14	COASTAL CV9, LLC	AR, TLE	--	--	--	0.003	--
15	SYLVANIA PARTNERSHIP, LLC	AR	--	--	--	--	--
100	WE ENERGIES - ELECTRIC	ROR	--	--	--	--	--
101	WE ENERGIES - GAS	ROR	--	--	--	--	--
103	AT&T WISCONSIN	ROR	--	--	--	--	--
108	TOWN OF YORKVILLE - SEWER	ROR	--	--	--	--	--
UA206	TOWN OF YORKVILLE - WATER	MUNICIPAL UTILITY AGREEMENT	--	--	--	--	--
UA208	TOWN OF YORKVILLE - SEWER	MUNICIPAL UTILITY AGREEMENT	--	--	--	--	--

WEST FRONTAGE ROAD
PI STA. = 4827+33.81
Y = 182002.51
X = 593908.19
PC STA = 4826+19.19
PT STA. = 4828+48.41
DELTA = 1°05'40"
D = 0°28'39"
L = 229.22'
R = 12000.00'
LCH = 229.22'
LCB = N 00°50'37" W

EAST FRONTAGE ROAD
PI STA. = 5830+76.92
Y = 182346.11
X = 594148.00
PC STA = 5826+21.00
PT STA. = 5835+02.52
DELTA = 36°04'37"
D = 04°05'33"
L = 881.52'
R = 1400.00'
LCH = 867.03'
LCB = N 17°35'07" E

I-94
PI STA. = 805+08.21
Y = 179777.30
X = 594047.06
PC STA = 800+73.62
PT STA. = 809+42.80
DELTA = 00°21'44"
D = 00°02'30"
L = 869.17'
R = 137515.87'
LCH = 869.17'
LCB = N 00°16'19" W

CURVE B
R = 137515.87'
L = 511.09'
LCH = 511.09
LCB = N 00°20'48" W

CURVE C
R = 1400.00'
L = 475.12'
LCH = 472.84'
LCB = N 09°16'09" E

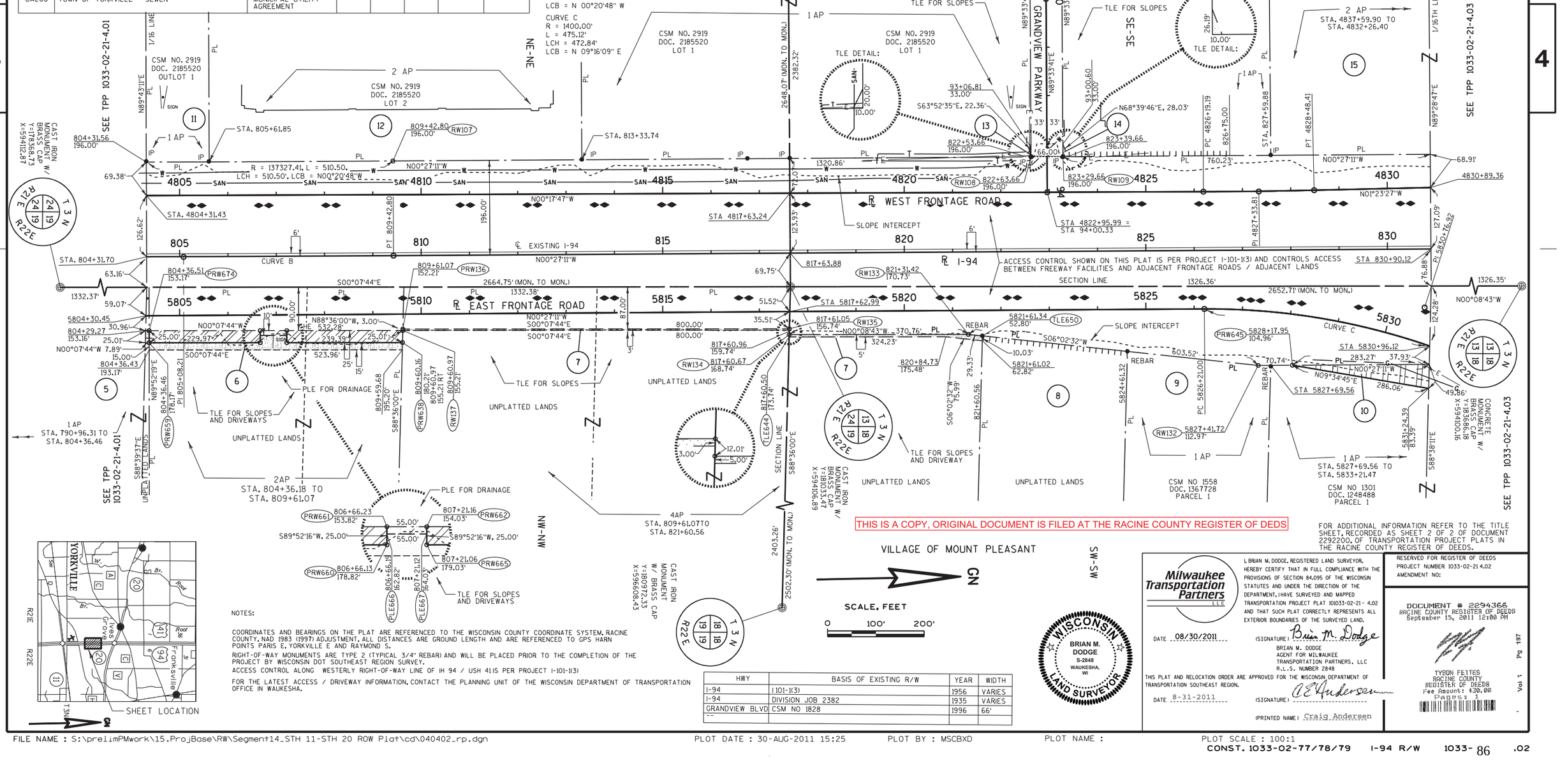
CAST IRON MONUMENT W/ BRASS CAP Y=180122.86 X=591658.89

100 PARCEL 5 - NO EASEMENT OF RECORD
PARCEL 10 - DOC. NO. 1419680
PARCEL 13 - DOC. NO. 1443397
PARCEL 14 - DOC. NO. 1443397
PARCEL 14 - DOC. NO. 1923813

101 PARCEL 10 -NO EASEMENT OF RECORD

103 PARCEL 10 -DOC. NO. 1419680
PARCEL 13 - DOC. NO. 2194094

108 PARCEL 13 -NO EASEMENT OF RECORD



NOTES:

COORDINATES AND BEARINGS ON THE PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, RACINE COUNTY, NAD 1983 (1997) ADJUSTMENT. ALL DISTANCES ARE GROUND LENGTH AND ARE REFERENCED TO GPS HARN POINTS PARIS E, YORKVILLE E AND RAYMOND S.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY WISCONSIN DOT SOUTHEAST REGION SURVEY.

ACCESS CONTROL ALONG WESTERLY RIGHT-OF-WAY LINE OF IH 94 / USH 41 IS PER PROJECT I-101-1(3)

FOR THE LATEST ACCESS / DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

HWY	BASIS OF EXISTING R/W	YEAR	WIDTH
I-94	I101-1(3)	1956	VARIES
I-94	DIVISION JOB 2382	1935	VARIES
GRANDVIEW BLVD	CSM NO 1828	1996	66'
--			

THIS IS A COPY, ORIGINAL DOCUMENT IS FILED AT THE RACINE COUNTY REGISTER OF DEEDS

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF DOCUMENT 2292200, OF TRANSPORTATION PROJECT PLATS IN THE RACINE COUNTY REGISTER OF DEEDS.

Milwaukee Transportation Partners LLC

I, BRIAN M. DODGE, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1033-02-21 - 4.02 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 08/30/2011 (SIGNATURE) Brian M. Dodge
BRIAN M. DODGE
AGENT FOR MILWAUKEE TRANSPORTATION PARTNERS, LLC
R.L.S. NUMBER 2848

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION SOUTHEAST REGION.

DATE 8-31-2011 (SIGNATURE) OE Andersen
(PRINTED NAME) Craig Andersen

BRIAN M. DODGE S-2848 WAUKESHA, WI WISCONSIN LAND SURVEYOR

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1033-02-21.4.02
AMENDMENT NO:

DOCUMENT # 2294366
RACINE COUNTY REGISTER OF DEEDS
September 15, 2011 12:00 PM
TYSON FEITES
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: $20.00
Pages 1
Vol 1 Pg 197

FILE NAME : S:\prelimPMwork\15.ProjBase\RW\Segment14_STH 11-STH 20 ROW Plat\cd\040402_rp.dgn
PLOT DATE : 30-AUG-2011 15:25 PLOT BY : MSCBXD PLOT NAME : PLOT SCALE : 100:1

TRANSPORTATION PROJECT PLAT NO: 1033-02-21 - 4.03

THAT PART PARCEL 1 OF CSM NO. 2413 AND PART OF PARCELS 4 AND 5 AND OUTLOT 2 OF CSM NO. 2008 ALL IN THE NORTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 13, TOWNSHIP 3 NORTH, RANGE 21 EAST, TOWN OF YORKVILLE, AND PART OF PARCEL 1 CSM NO. 1301 LOCATED IN AND INCLUDING THAT PART OF AND THE NORTHWEST 1/4 OF THE SOUTHWEST 1/4 OF SECTION 18, TOWNSHIP 3 NORTH, RANGE 22 EAST, VILLAGE OF MOUNT PLEASANT, ALL IN RACINE COUNTY, WISCONSIN.

RELOCATION ORDER I-94, STH 11 TO STH 20 RACINE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

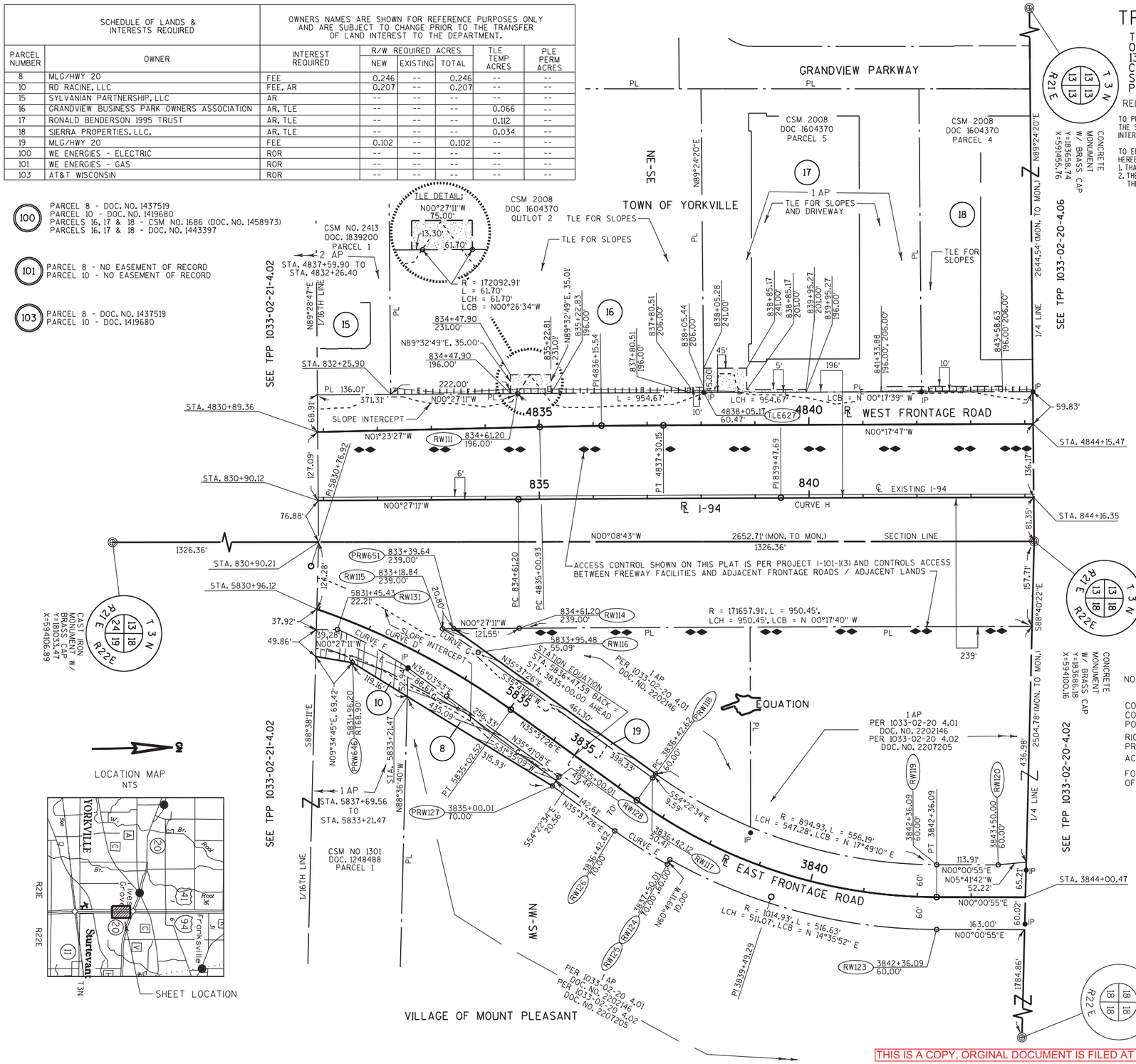
TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

SCHEDULE OF LANDS & INTERESTS REQUIRED		OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.					
PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED ACRES NEW	EXISTING	TOTAL	TLE TEMP ACRES	PLE PERM ACRES
8	MLG/HWY 20	FEE	0.246	--	0.246	--	--
10	RD RACINE, LLC	FEE, AR	0.207	--	0.207	--	--
15	SYLVANIAN PARTNERSHIP, LLC	AR	--	--	--	--	--
16	GRANDVIEW BUSINESS PARK OWNERS ASSOCIATION	AR, TLE	--	--	--	0.066	--
17	RONALD BENDERSON 1995 TRUST	AR, TLE	--	--	--	0.112	--
18	SIERRA PROPERTIES, LLC.	AR, TLE	--	--	--	0.034	--
19	MLG/HWY 20	FEE	0.102	--	0.102	--	--
100	WE ENERGIES - ELECTRIC	ROR	--	--	--	--	--
101	WE ENERGIES - GAS	ROR	--	--	--	--	--
103	AT&T WISCONSIN	ROR	--	--	--	--	--

(100) PARCEL 8 - DOC. NO. 1437519
PARCEL 10 - DOC. NO. 1419680
PARCELS 16, 17 & 18 - CSM NO. 1686 (DOC. NO. 1458973)
PARCELS 16, 17 & 18 - DOC. NO. 1443397

(101) PARCEL 8 - NO EASEMENT OF RECORD
PARCEL 10 - NO EASEMENT OF RECORD

(103) PARCEL 8 - DOC. NO. 1437519
PARCEL 10 - DOC. NO. 1419680



HWY	BASIS OF EXISTING R/W	YEAR	WIDTH
I-94	I 101-1(3)	1956	VARIES
EAST FRONTAGE ROAD	1032-06-29	1989	VARIES
EAST FRONTAGE ROAD	1033-02-20	2009	VARIES
--			

SCALE, FEET
0 100' 200'

CURVE D
L 406.40'
R 1400.00'
LCH 404.98'
LCB S 27°18'27" W

CURVE E
R 1024.93'
L 115.26'
LCH 115.20'
LCB N 32°24'07" E

CURVE F
R 800.00'
L 149.12'
LCH 148.90'
LCB N 28°33'42" E

CURVE G
R 991.85'
L 79.36'
LCH 79.34'
LCB N 33°23'35" E

CURVE H
R 171881.34'
L 955.15
LCH 955.15'
LCB N 00°17'38" W

I-94
PI STA. = 839+47.69
Y = 183216.67
X = 594019.87
PC STA = 834+61.20
PT STA. = 844+34.17
DELTA = 00°19'28"
D = 00°02'00"
L = 972.97'
R = 171881.34'
LCH = 972.97'
LCB = N 00°17'27" W

WEST FRONTAGE ROAD
PI STA. = 4836+15.54
Y = 182884.00
X = 593886.79
PC STA = 4835+00.93
PT STA. = 4837+30.15
DELTA = 01°05'40"
D = 00°28'039"
L = 229.22'
R = 12000.00'
LCH = 229.22'
LCB = N 00°50'37" W

EAST FRONTAGE ROAD
PI STA. = 5830+76.92
Y = 182346.11
X = 594148.00
PC STA = 5826+21.00
PT STA. = 5835+02.52
DELTA = 36°04'37"
D = 36°04'37"
L = 881.52'
R = 1400.00
LCH = 881.52'
LCB = N 17°35'07" E

EAST FRONTAGE ROAD
PI STA. = 3839+49.29
Y = 183199.84
X = 594759.75
PC STA = 3836+42.62
PT STA. = 3842+36.09
DELTA = 35°36'31"
D = 06°00'00"
L = 593.47'
R = 954.93'
LCH = 583.97'
LCB = N 17°49'10" E

NOTES:

COORDINATES AND BEARINGS ON THE PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, RACINE COUNTY, NAD 1983 (1997) ADJUSTMENT. ALL DISTANCES ARE GROUND LENGTH AND ARE REFERENCED TO GPS HARN POINTS PARIS E, YORKVILLE E AND RAYMOND S.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY WISCONSIN DOT SOUTHEAST REGION SURVEY.

ACCESS CONTROL ALONG WESTERLY RIGHT-OF-WAY LINE OF IH 94 / USH 41 IS PER PROJECT I-101-1(3)

FOR THE LATEST ACCESS / DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF DOCUMENT 2292200, OF TRANSPORTATION PROJECT PLATS IN THE RACINE COUNTY REGISTER OF DEEDS.

WISCONSIN BRIAN M. DODGE S-2848 WAUKESHA, WI LAND SURVEYOR

Milwaukee Transportation Partners LLC

I, BRIAN M. DODGE, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 101033-02-21- 4.03 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 08/30/2011 (SIGNATURE) Brian M. Dodge
BRIAN M. DODGE
AGENT FOR MILWAUKEE TRANSPORTATION PARTNERS, LLC
R.L.S. NUMBER 2848

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION SOUTHEAST REGION.

DATE 8-31-2011 (SIGNATURE) O.E. Andersen
(PRINTED NAME) Craig Andersen

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1033-02-21 4.03
AMENDMENT NO:

DOCUMENT # 2294367
RACINE COUNTY REGISTER OF DEEDS
September 15, 2011 12:00 PM
TYSON FETTES
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: $30.00
Pages: 1
Vol 1 Pg 198

THIS IS A COPY, ORGINAL DOCUMENT IS FILED AT THE RACINE COUNTY

FILE NAME : S:\prelimPMwork\15.ProjBase\RW\Segment14_STH 11-STH 20 ROW Plat\cd\040403_rp.dgn
PLOT DATE : 30-AUG-2011 15:19
PLOT BY : MSCBXD
PLOT NAME :
PLOT SCALE : 100:1

TRANSPORTATION PROJECT PLAT NO: 1030-25-21 - 4.01

THAT PART OF THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 AND THAT PART OF CSM 1132, LOCATED IN AND INCLUDING THE NORTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 24, TOWNSHIP 04 NORTH, RANGE 21 EAST, TOWN OF RAYMOND, AND THAT PART OF THE SOUTHWEST 1/4 OF THE SOUTHWEST 1/4 AND THE NORTHWEST 1/4 OF THE SOUTHWEST 1/4 OF SECTION 19, AND THAT PART OF THE NORTHWEST 1/4 OF THE NORTHWEST 1/4 OF SECTION 30, ALL IN TOWNSHIP 04 NORTH, RANGE 22 EAST, VILLAGE OF CALEDONIA, RACINE COUNTY, WISCONSIN.

RELOCATION ORDER I-94 AND FRONTAGE ROADS CTH K TO CTH G SEGMENT RACINE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

HIGHWAY	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
I-94	I 101-1(3)	VARIES	1956
I-94	2277	VARIES	1934
FOUR MILE ROAD	2277	69.75'	1934
FOUR MILE ROAD	TOWN ROAD V. 2 P. 6	49.5'	1848
BELL ROAD	TOWN ROAD V. 2 P. 14	66'	1850

CONVENTIONAL ABBREVIATIONS

ACCESS POINT	AP	RELEASE OF RIGHTS	ROR
ACCESS RIGHTS	AR	REMAINING	REM.
ACRES	AC.	RIGHT-OF-WAY	R/W
AND OTHERS	ET.AL.	SECTION	SEC.
CENTERLINE	C/L	STATION	STA.
CERTIFIED SURVEY MAP	CSM	TEMPORARY LIMITED EASEMENT	TLE
CORNER	COR.	VOLUME	V.
DOCUMENT	DOC.		
EASEMENT	EASE.		
HIGHWAY EASEMENT	H.E.		
LAND CONTRACT	LC		
MONUMENT	MON.		
PAGE	P.		
PERMANENT LIMITED EASEMENT	PLE		
PROPERTY LINE	PL		
RECORDED AS	(100')		
REFERENCE LINE	R/L		

CURVE DATA

LONG CHORD	LCH	FOUND IRON PIPE/PIN	
LONG CHORD BEARING	LCB	R/W MONUMENT	
RADIUS	R	R/W STANDARD	
DEGREE OF CURVE	D	SIGN	
CENTRAL ANGLE OR DELTA	DELTA	SECTION CORNER MONUMENT	
LENGTH OF CURVE	L	SECTION CORNER SYMBOL	
TANGENT	TAN		
		FEE (HATCH VARIES)	
		TEMPORARY LIMITED EASEMENT	
		PERMANENT LIMITED EASEMENT	
		R/W BOUNDARY POINT	
		PARCEL NUMBER	
		SIGN NUMBER (OFF PREMISE)	
		BUILDING	

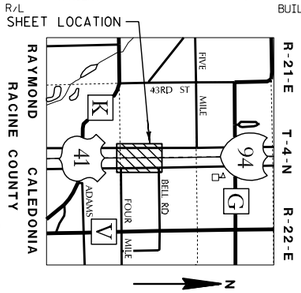
CONVENTIONAL SYMBOLS

(1" UNLESS NOTED)	PROPOSED R/W LINE
●(SET)	EXISTING H.E. LINE
▲(SET)	PROPERTY LINE
	LOT & TIE LINES
ISIGN	SLOPE INTERCEPTS
	CORPORATE LIMITS
	NO ACCESS (BY PREVIOUS ACQUISITION/CONTROL)
	NO ACCESS (BY ACQUISITION)
	NO ACCESS (BY STATUTORY AUTHORITY)
	SECTION LINE
	QUARTER LINE
	SIXTEENTH LINE
	EXISTING CENTERLINE
	PROPOSED REFERENCE LINE
	PARALLEL OFFSET

CONVENTIONAL UTILITY SYMBOLS

WATER	W	
GAS	G	
TELEPHONE	T	
OVERHEAD	OH	
TRANSMISSION LINES		
ELECTRIC	E	
CABLE TELEVISION	TV	
FIBER OPTIC	FO	
SANITARY SEWER	SAN	
STORM SEWER	SS	
	NON COMPENSABLE	COMPENSABLE
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		
ELECTRIC TOWER		

SHEET LOCATION



A Cast Iron Monument w/ A Brass Cap Y 207529.73 X 591560.10

A Cast Iron Monument w/ A Brass Cap Y 207494.35 X 594205.28

A Cast Iron Monument w/ A Brass Cap Y 210184.98 X 591600.93

A Cast Iron Monument w/ A Brass Cap Y 210144.23 X 594246.71

A Cast Iron Monument w/ A Brass Cap Y 207463.98 X 596619.24

A Cast Iron Monument w/ A Brass Cap Y 210111.47 X 596634.98

SEE TPP 1030-11-20-4.06

SEE TPP 1030-11-20-4.09

SEE TPP 1030-25-21-4.02

AR SEE TPP 1030-11-20-4.06

S89°14'02"E PL 2348.29'

S89°07'04"E PL 2344.04'

ACCESS EASEMENT DOC. 1318083

SE1/4-SE1/4

NE1/4-SE1/4

TOWN OF RAYMOND

CSM 1132 V. 3 P. 331

1 AP

1 AP PER CSM 1132

TLE DRIVES

TLE DRIVE

N89°14'02"W 14.00'

132.00' N01°05'31"E

238'

1/2"IP

2518.85'

3/4"IP

940.5'

1691+70.00 224.214'

1092+30.00 229.214'

1099+70.00 224.214'

1100+10.00 224.214'

1102+55.00 224.214'

1103+00.00 224.214'

1107+30.00 224.214'

1108+10.00 224.214'

10'

15'

1742'

3/4"IP

IP

PC ℄ WEST FRONTAGE ROAD

℄ WEST FRONTAGE ROAD N01°05'31"E

TO ℄ EXISTING 194 220'

200.00'

6.00'

91.12'

1080 STA 1082+28.35

STA 1179+00.00 BEGIN PROJECT

2656.24' PL N00°49'23"E

300' PL N00°53'45"E

415'

940.50'

1709.70'

2650.20' SECTION LINE N00°53'45"E

℄ EAST FRONTAGE ROAD N00°53'45"E

833.30'

493.50'

316.50'

886.21'

448.50'

855.36'

375.00' N00°53'45"E

℄ I-94 N01°05'31"E

EXISTING ℄ I-94 N01°05'31"E

NO ACCESS, SEE PROJ. I 101-1(3)

1085 1090 1095 1100 1105

STATION 1108+78.77

82.05'

214.00'

2344.04'

PL

℄ BELL ROAD 24

2132.39'

4 MILE ROAD ENDS AT FRONTAGE ROAD

℄ FOUR MILE RD. PL

DETENTION POND

SW1/4-SW1/4

NW1/4-SW1/4

NW1/4-NW1/4

VILLAGE OF CALEDONIA

THIS IS A COPY, THE ORIGINAL DOCUMENT IS AT THE RACINE COUNTY REGISTER OF DEEDS.

SCALE, FEET 0 100 200

GN

DETAIL NOT TO SCALE

7.00'

RUINS

CANOPY

SIGN

1 AP

PRW35 PRW27 PRW505 PRW506 PRW31 PRW510 PRW508 PRW509 PRW512 PRW511 PRW513 PRW519 PRW518 PRW520 PRW521 PRW517

C1
L 54.01'
R 80.00'
LCH 52.99'
LCB N 20°03'43" E

NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, RACINE COUNTY ZONE, NAD83 (97) ADJUSTMENT AND ARE REFERENCED TO GPS HARN POINTS RAYMOND NORTH, RAYMOND SOUTH, AND CALEDONIA. ALL DISTANCES ARE GROUND LENGTH.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY WISDOT SE REGION SURVEY UNIT.

FOR THE LATEST ACCESS / DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS OF PUBLIC RECORD".

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY LINES, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE. ALL TLEs EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

SCHEDULE OF LANDS & INTERESTS REQUIRED		OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.					
			R/W REQUIRED ACRES				
PARCEL NUMBER	OWNER	INTEREST REQUIRED	NEW	EXISTING	TOTAL	T.L.E. TEMP. ACRES	P.L.E. PERM. ACRES
1	THOMAS V. JOERNDT	AR	0.000	0.000	0.000	0.000	0.000
2	THE NORTH SHORE INVESTMENT CO.	AR TLE	0.000	0.000	0.000	0.021	0.000
3	WARREN L. & JUDITH JOERNDT	TLE	0.000	0.000	0.000	0.009	0.000
4	NEAL GUSSIS ET. AL.	AR TLE	0.000	0.000	0.000	0.010	0.000
5	C. D. MEYER PROPERTIES, LLC	AR TLE	0.000	0.000	0.000	0.011	0.000
6	DENNIS L. & JUDY A. BREUTZMAN	AR TLE	0.000	0.000	0.000	0.007	0.000
7	FOUR MILE ROAD, LLC	Fee AR	0.171	1.186	1.357	0.000	0.000
8	ROBERT W. & SHARON L. DOWDEN	Fee AR	1.922	2.341	4.263	0.000	0.000
9	JOYCE & JEROME R. WILLMS	Fee AR	0.302	2.012	2.314	0.000	0.000
10	M. T. O. SHAH MAGHSOUDI	Fee AR	0.055	1.344	1.399	0.000	0.000
11	NADER ANGHA	Fee AR	0.000	0.439	0.439	0.000	0.000
12	PATTI J. DROUGHT	Fee AR	0.092	0.283	0.375	0.000	0.000
100	WE ENERGIES ELECTRIC	ROR	-----	-----	-----	-----	-----
103	AT&T WISCONSIN	ROR	-----	-----	-----	-----	-----

(100) NO RECORDED EASEMENT PCL. 8, 12

(103) NO RECORDED EASEMENT PCL. 8

NOTE: PROJECT I 101-1(3) INCORRECTLY SHOWS THE WIDTH OF EXISTING RIGHT-OF-WAY FOR PARCELS 10, 11, & 12 AS 100 FEET. ACCORDING TO PROJECT 2277 THE WIDTH OF EXISTING RIGHT-OF-WAY IS 108 FEET.

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE: 6-21-2010 Name Title

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 6-21-2010 Name PAUL KRAUSE

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1030-25-21 - 4.01
AMENDMENT NO:

DOCUMENT # 2254229
RACINE COUNTY REGISTER OF DEEDS
June 28, 2010 3:52 PM

JAMES A LADWIG
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: $25.00
Pages: 1

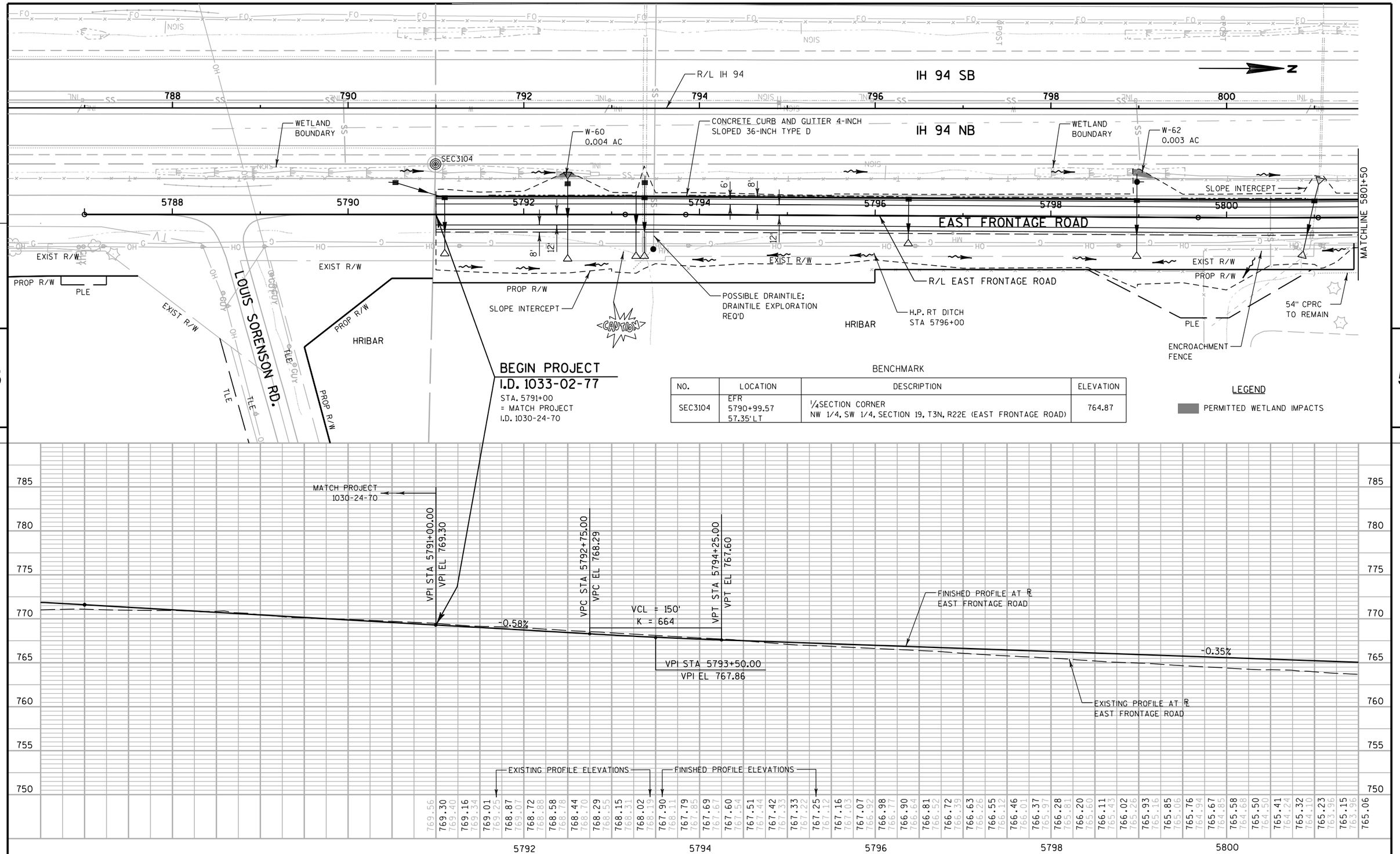
VOL. 1 PAGE 107

88

FILE NAME : J:\projects\d2_r_10302594\21\040401_rp.dgn
APPRAISAL PLAT DATE :

PLOT DATE : 21-JUN-2010 13:16 PLOT BY : dotphk PLOT NAME : PLOT SCALE : 100.000000:1.000000

CONST.# 1030-25-77/78/79 I-94 1030-25-21 4.01



BENCHMARK

NO.	LOCATION	DESCRIPTION	ELEVATION
SEC3104	EFR 5790+99.57 57.35'LT	1/4SECTION CORNER NW 1/4, SW 1/4, SECTION 19, T3N, R22E (EAST FRONTAGE ROAD)	764.87

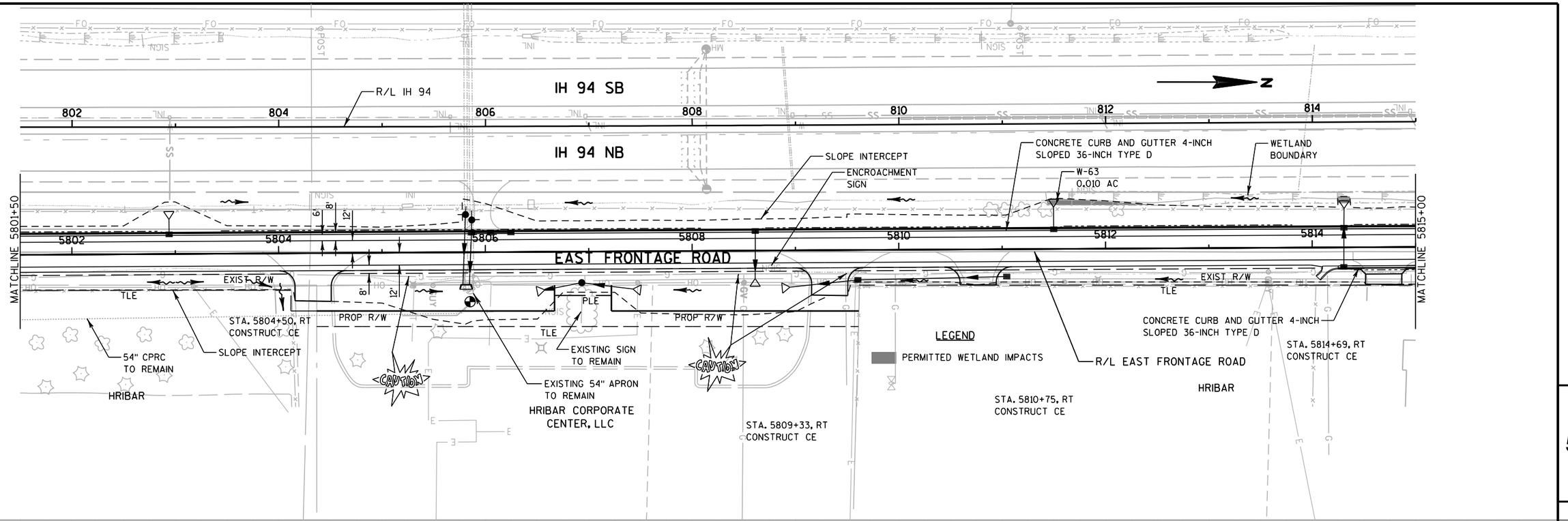
LEGEND

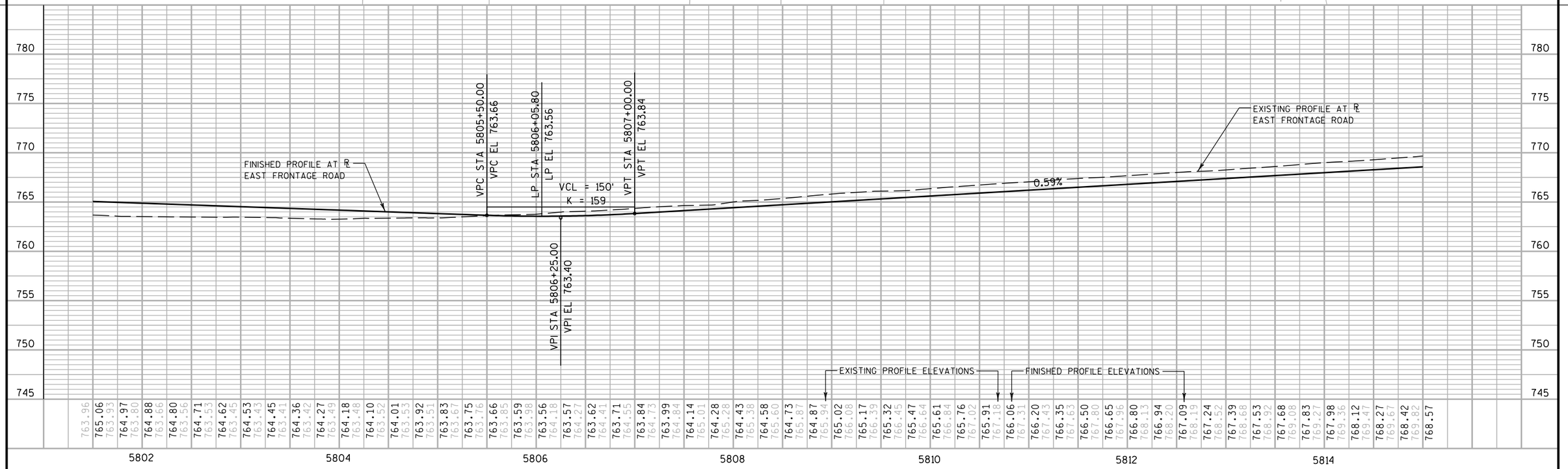
PERMITTED WETLAND IMPACTS

PROJECT NO: 1033-02-77	HWY: IH 94	COUNTY: RACINE	PLAN & PROFILE: EAST FRONTAGE ROAD	SHEET 89	E

FILE NAME : Z:\Racine\CADDS\14\14E\CDS\050101_PP.dgn PLOT DATE : 7/31/2017 PLOT BY : bjw PLOT NAME : $FILE$ PLOT SCALE : 1:100

WISDOT/CADDS SHEET 40

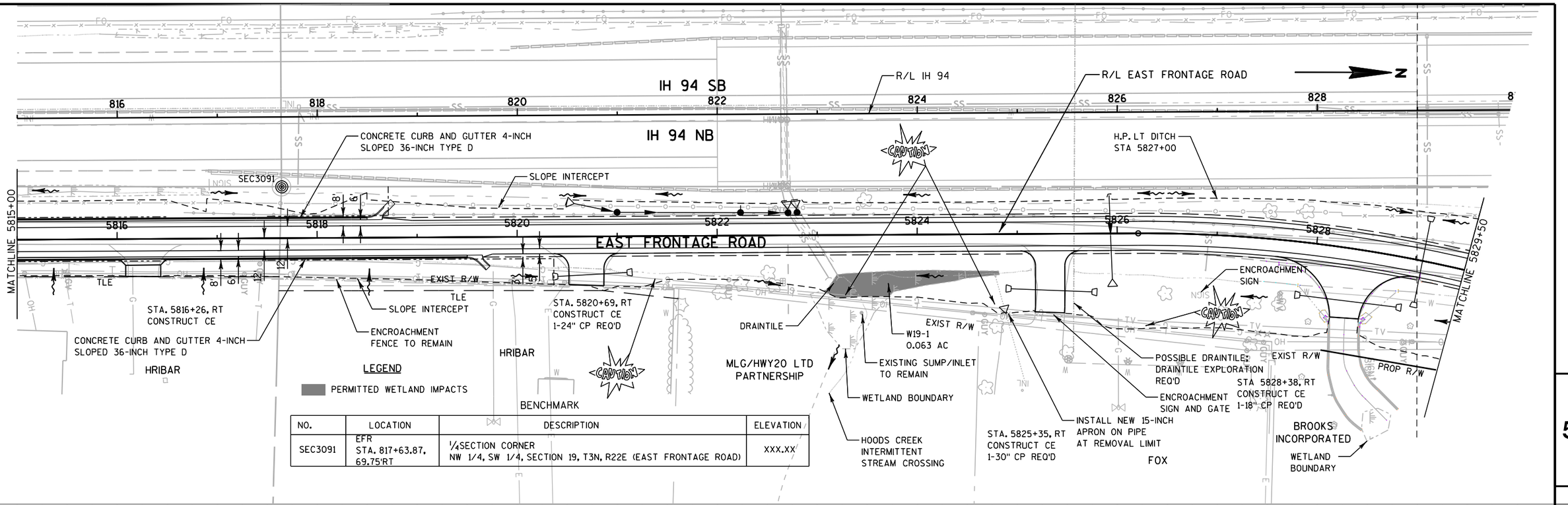




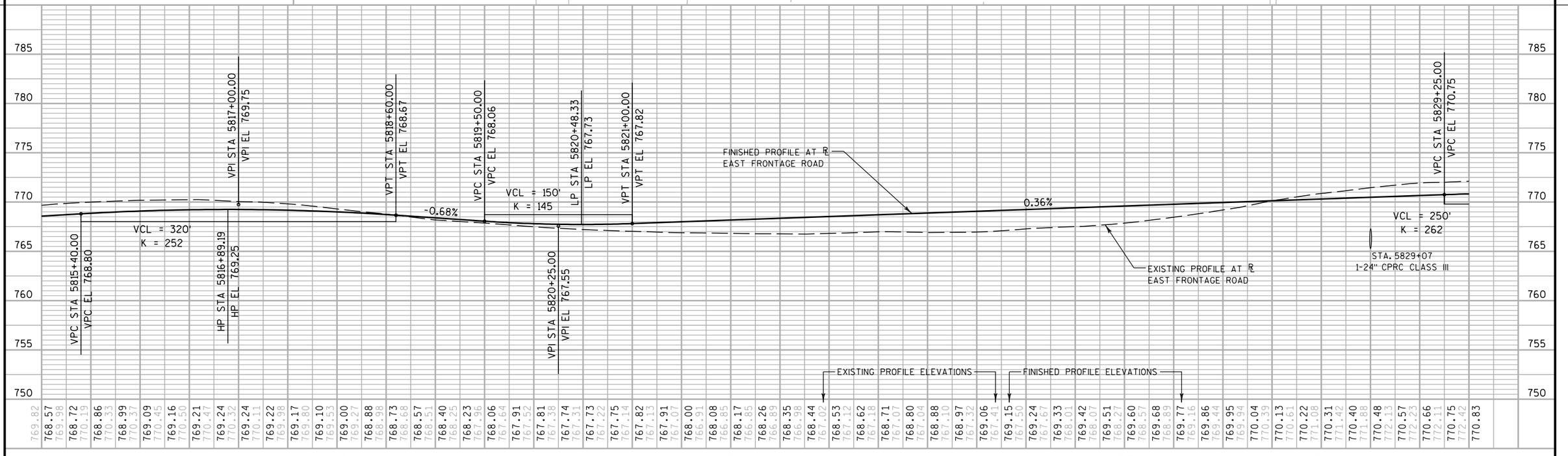
PROJECT NO: 1033-02-77	HWY: IH 94	COUNTY: RACINE	PLAN & PROFILE: EAST FRONTAGE ROAD	SHEET 90	E

FILE NAME : Z:\Racine\CADDS\14\14E\CDS\050102_PP.dgn PLOT DATE : 7/31/2017 PLOT BY : bjw PLOT NAME : $FILE$ PLOT SCALE : 1:100

WISDOT/CADDS SHEET 40



NO.	LOCATION	DESCRIPTION	ELEVATION
SEC3091	EFR STA. 817+63.87, 69.75'RT	1/4SECTION CORNER NW 1/4, SW 1/4, SECTION 19, T3N, R22E (EAST FRONTAGE ROAD)	XXX.XX



PROJECT NO: 1033-02-77	HWY: IH 94	COUNTY: RACINE	PLAN & PROFILE: EAST FRONTAGE ROAD	SHEET 91	E

IH 94 NB

R/L IH 94

MLG/HWY 20

SLOPE INTERCEPT

WETLAND BOUNDARY

MATCHLINE 5829+50

PROP R/W

EXIST R/W

12'

8'

5830

5832

5834

5836

STATION EQUATION
STA. 5836+47.59 BK
STA. 3835+00.00 AH

WOODSTOCK GROUP

END CONSTRUCTION
I.D. 1033-02-77
STA. 3835+20.77

EAST FRONTAGE ROAD

3836

3838

3840

3842

END PROJECT
I.D. 1033-02-77
STA. 5836+47.59
= MATCH PROJECT
I.D. 1033-02-70
STA. 3835+00.00
(PREVIOUSLY CONSTRUCTED)

CAUTION

H.P. RT DITCH
STA 5832+00

ENCROACHMENT
GATE

R/L EAST FRONTAGE ROAD

WETLAND BOUNDARY

RD RACINE LLC

MLG/HWY 20

RIPRAP

N

5

5

790
785
780
775
770
765
760
755

VPI STA 5830+50.00
VPI EL 771.20

VPT STA 5831+75.00
VPT EL 770.45

VPI STA 5835+50.00
VPI EL 768.20

VPI STA eq 3835+00.00
VPI EL 767.38

MATCH PROJECT
1033-02-70
(PREVIOUSLY CONSTRUCTED)

EXISTING PROFILE AT ℄
EAST FRONTAGE ROAD

VCL = 250'
K = 262

-0.60%

-0.84%

HP STA 5830+18.02
HP EL 770.92

FINISHED PROFILE AT ℄
EAST FRONTAGE ROAD

EXISTING PROFILE ELEVATIONS

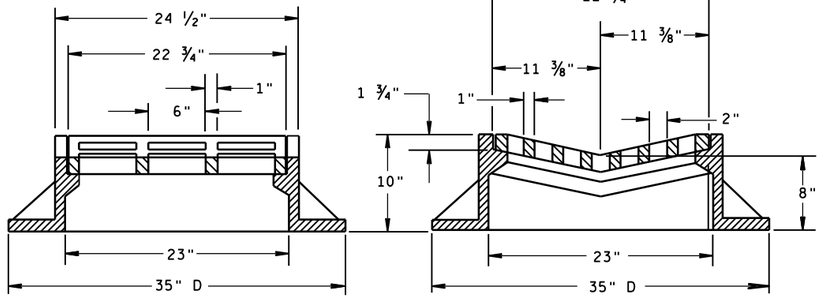
FINISHED PROFILE ELEVATIONS

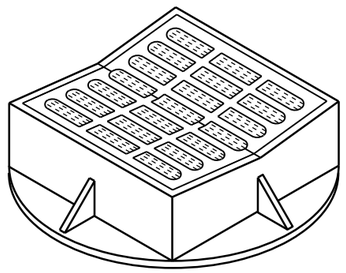
| | | |

Standard Detail Drawing List

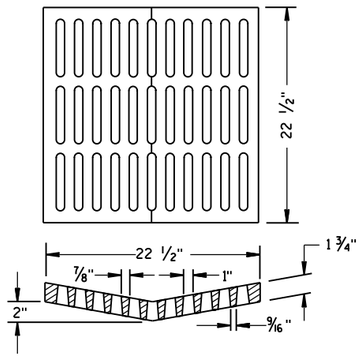
08A05-19B	INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM
08A05-19C	INLET COVERS TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S
08A05-19D	INLET COVER TYPE BW, MANHOLE COVERS, TYPE K, J, J-S, L & M
08B09-02	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER
08C07-02	INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT
08C08-02	INLETS MEDIAN 1 AND 2 GRATE
08D01-19	CONCRETE CURB, CONCRETE CURB AND GUTTER AND TIES
08D04-05	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08D15-05A	EDGEDRAIN OUTLET AND OUTFALL MARKERS
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08E14-01	TRACKING PAD
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F02-01	APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
08F06-04	REINFORCED CONCRETE APRON ENDWALL FOR PIPE UNDERDRAIN
08F07-05	STEEL APRON ENDWALLS FOR CULVERT PIPE AND PIPE ARCH SLOPED SIDE FRAINS
08F10-01	CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH
15A02-09	DELINEATOR POST, DELINEATOR REFLECTOR AND DELINEATOR BRACKET WITH REFLECTIVE SHEETING
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15B01-08A	FENCE WOVEN WIRE
15B01-08B	FENCE WOVEN WIRE
15C02-06A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C03-03	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C04-03	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C05-03	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C08-17A	LONGITUDINAL MARKING (MAINLINE)
15C12-04	TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
15C12-05	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15D27-03	TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH
15D29-04	TRAFFIC CONTROL, VEHICLE ENTRANCE/EXIT OR HAUL ROAD
15D38-01A	TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS
15D38-01B	ATTACHMENT OF SIGNS TO POSTS

6



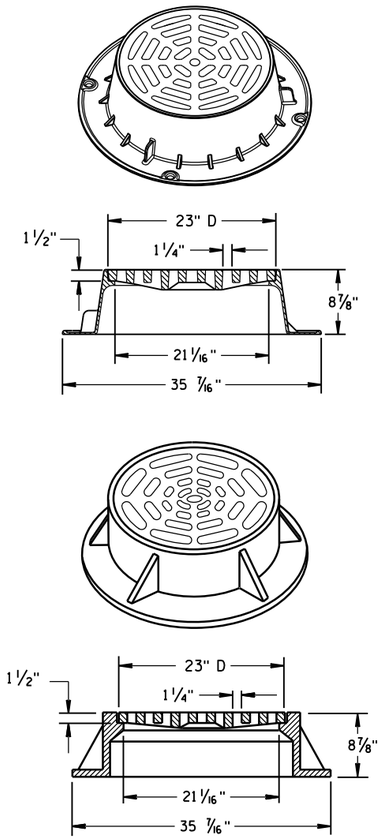


TYPE "B"



ALTERNATIVE GRATE FOR TYPE "B" COVER

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS POSSIBLE.
NOTED AS TYPE B-A ON THE DRAINAGE TABLE



TYPE "C"

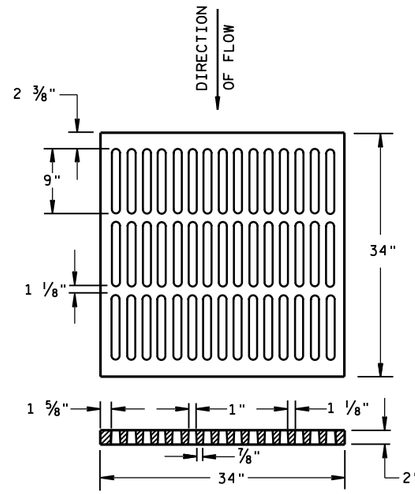
NOTE: EITHER CASTING IS ACCEPTABLE

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

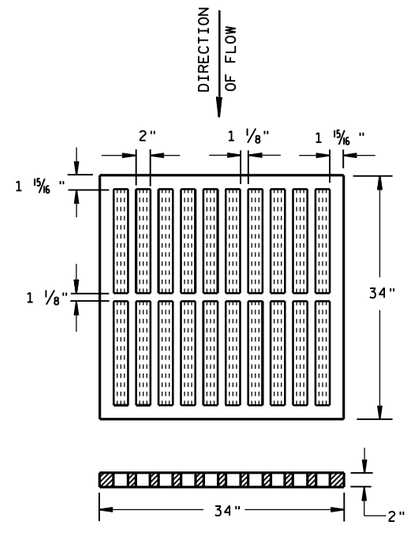
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.



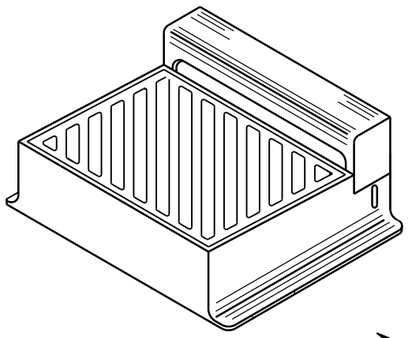
ALTERNATIVE TYPE "MS"

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS PERMITTED
NOTED AS TYPE MS-A ON THE DRAINAGE TABLE

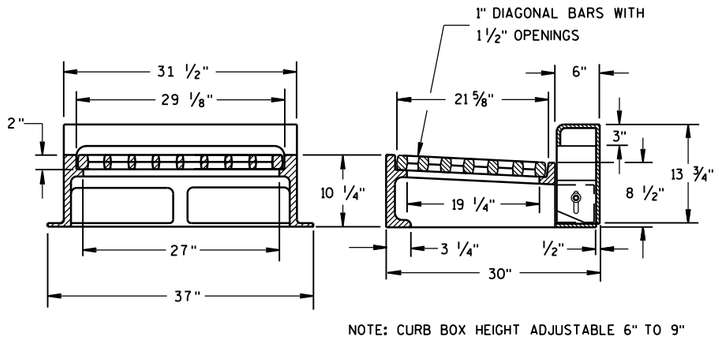


TYPE "MS"

USE ON FREEWAYS AND EXPRESSWAYS
NOTED AS TYPE MS ON DRAINAGE TABLE



DIAGONAL SLOTS, SHALL BE ORIENTED TO THE DIRECTION OF FLOW AS ILLUSTRATED. GRATES ARE MANUFACTURED TO BE REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

TYPE "WM"

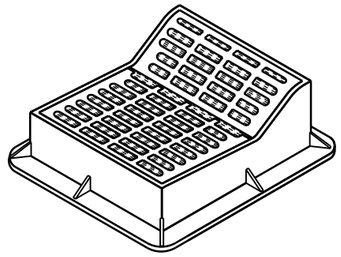
INLET COVERS
TYPE B, B-A, C,
MS, MS-A, & WM

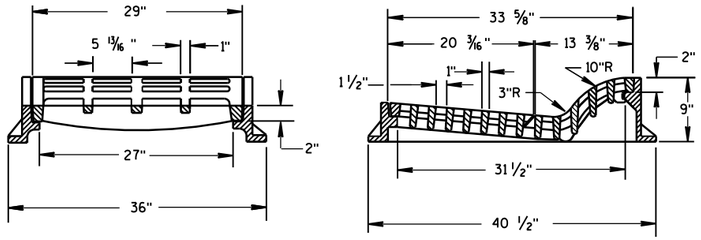
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

6

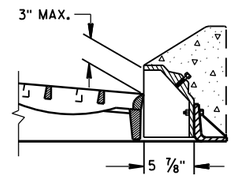
S.D.D. 8 A 5-19b





TYPE "F"

USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.



ALTERNATIVE CURB BOX FOR TYPE "HM" COVER

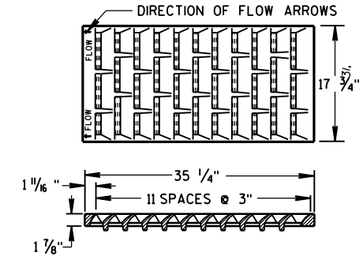
USE WITH TYPES G & J CONCRETE CURB & GUTTER, 30 INCH
NOTED AS TYPE HM-GJ ON DRAINAGE TABLE

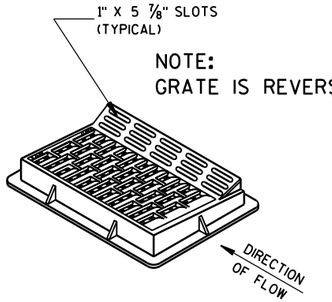
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM-GJ" COVER
NOTED AS TYPE HM-GJ-S ON DRAINAGE TABLE

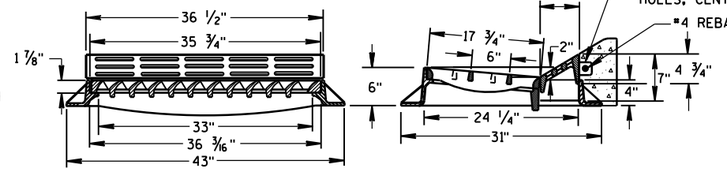
GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.



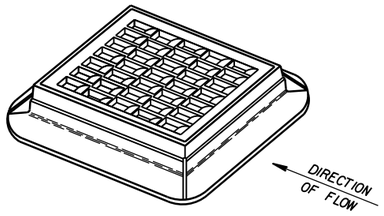


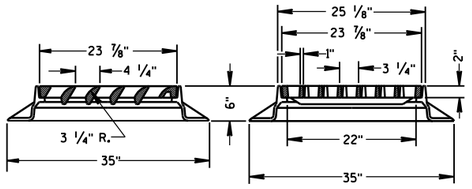


TYPE "HM"

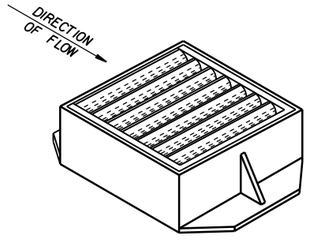
USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.

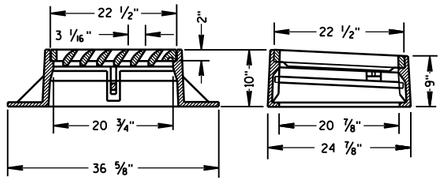
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM" COVER
NOTED AS TYPE HM-S ON DRAINAGE TABLE



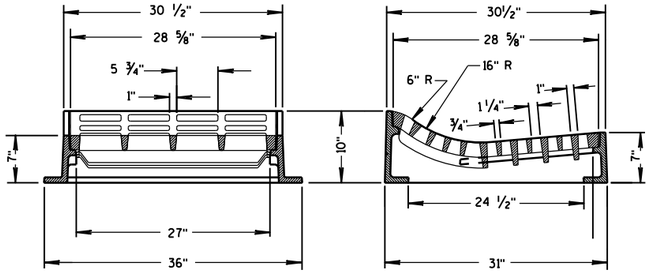


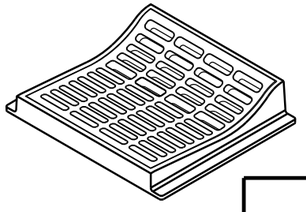
TYPE "S"





TYPE "V"





TYPE "T"

USE WITH TYPES R & T CONCRETE CURB & GUTTER, 36 INCH.

INLET COVERS TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

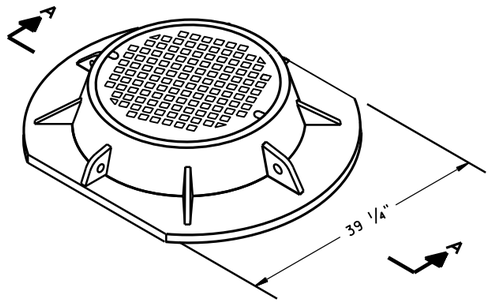
FHWA

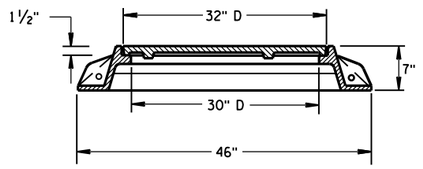
6

S.D.D. 8 A 5-19c

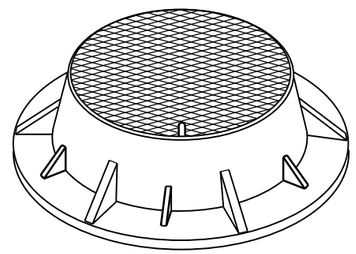
6

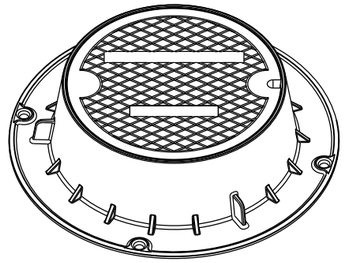
S.D.D. 8 A 5-19c

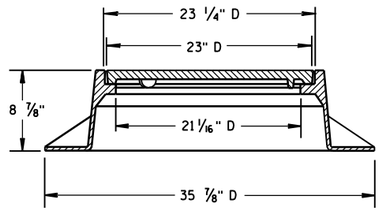


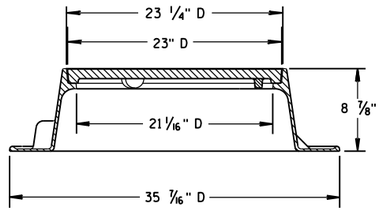


SECTION A-A
TYPE "K"









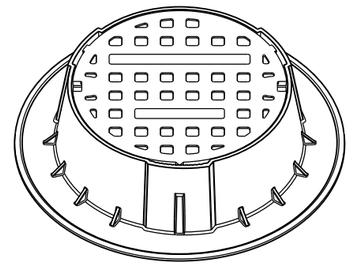
TYPE "J"
NOTE: EITHER CASTING IS ACCEPTABLE

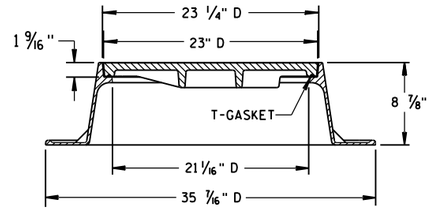
GENERAL NOTES

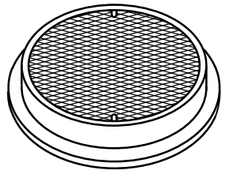
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

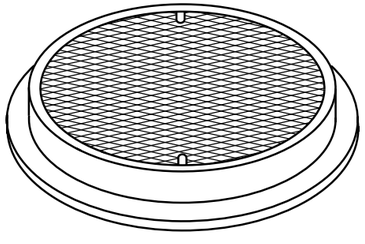
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR MANHOLE COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

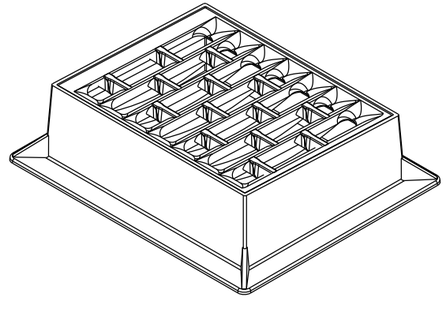
ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

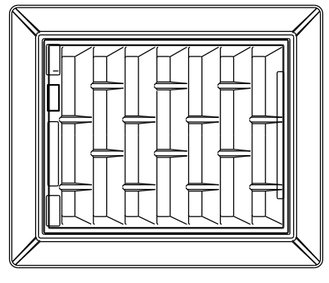


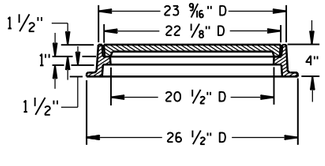




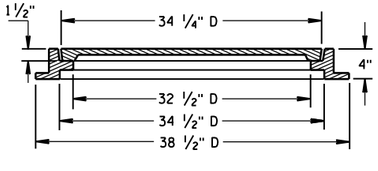




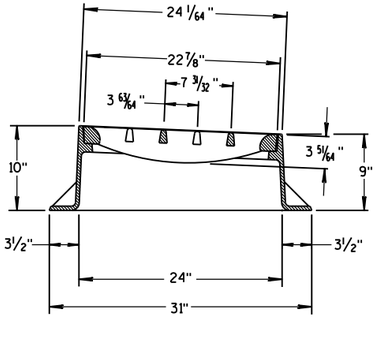


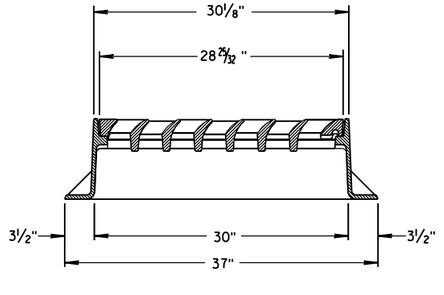


TYPE "L"

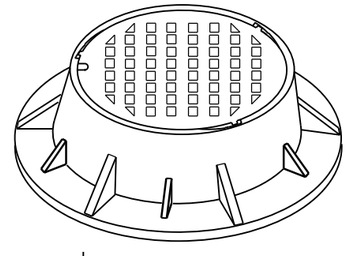


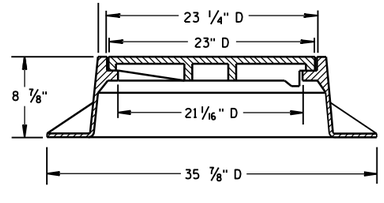
TYPE "M"





INLET COVER TYPE "BW"





TYPE "J" SPECIAL
TYPE "B" NON-ROCKING SELF-SEAL LID
(NOTED AS TYPE J-S ON THE DRAINAGE TABLE)
NOTE: EITHER CASTING IS ACCEPTABLE

INLET COVER TYPE BW
MANHOLE COVERS, TYPE K, J, J-S, L & M

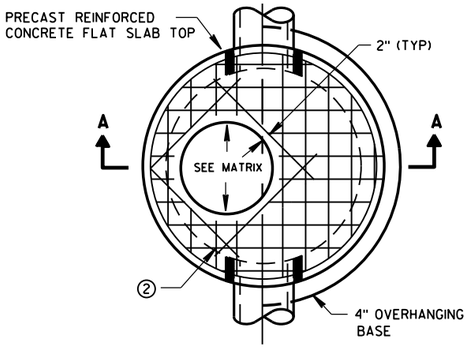
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013
DATE
FHWA

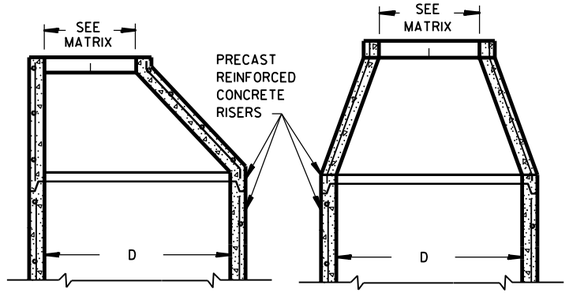
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

6

S.D.D. 8 A 5-19d

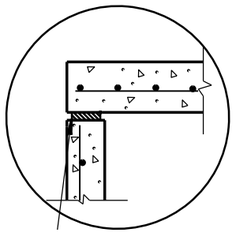


PLAN VIEW CIRCULAR OPENING

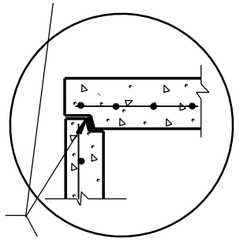


OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

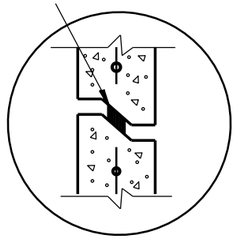


TOP WITH PLAIN END JOINT



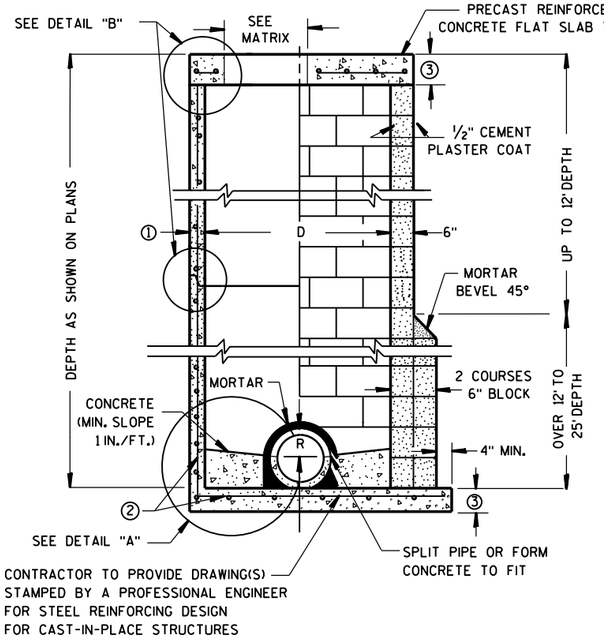
JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C990 (TYP)

TOP WITH TONGUE AND GROOVE JOINT



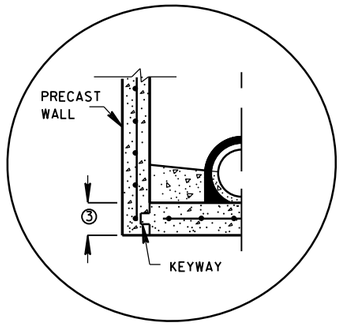
RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"

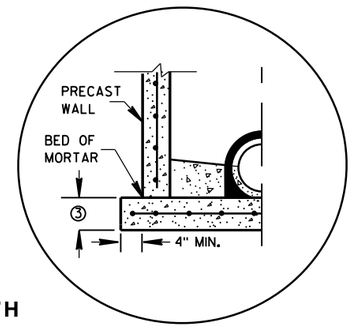


PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

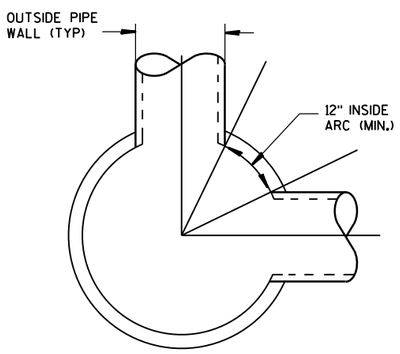


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "C"

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST MANHOLE UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES, AND CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 5 FEET OR LESS IN DEPTH, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

STEPS MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF ½" AND MEET THE REQUIREMENTS OF ASTM A615.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

CONCRETE BLOCK WILL NOT BE PERMITED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

ALL PRECAST MANHOLE UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT, 5 INCHES FOR 4-FT, 6 INCHES FOR 5-FT, 7 INCHES FOR 6-FT, 8 INCHES FOR 7-FT AND 9 INCHES FOR 8-FT DIAMETER PRECAST MANHOLES.

② FOR PRECAST MANHOLES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

③ PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER OF 48" AND LESS SHALL HAVE A MINIMUM THICKNESS OF 6". PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER LARGER THAN 48" SHALL HAVE A MINIMUM THICKNESS OF 8".

MANHOLE COVER OPENING MATRIX

MANHOLE COVER TYPE	C	ALL J'S	K	L	M
OPENING SIZE (FT)					
2 DIA.	X	X		X	
3 DIA.			X		X

PIPE MATRIX

MANHOLE SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18
5-FT	36	24
6-FT	42	36
7-FT	48	36
8-FT	60	42

MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

Sept., 2016
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT
UNIT SUPERV 97

FHWA

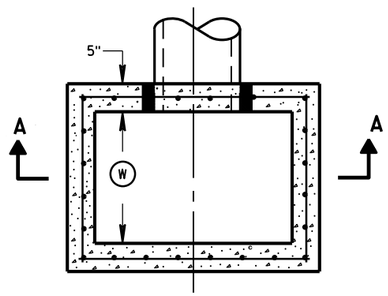
MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER

6

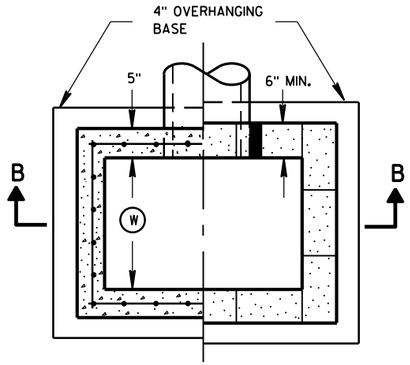
S.D.D. 8 B 9-2

6

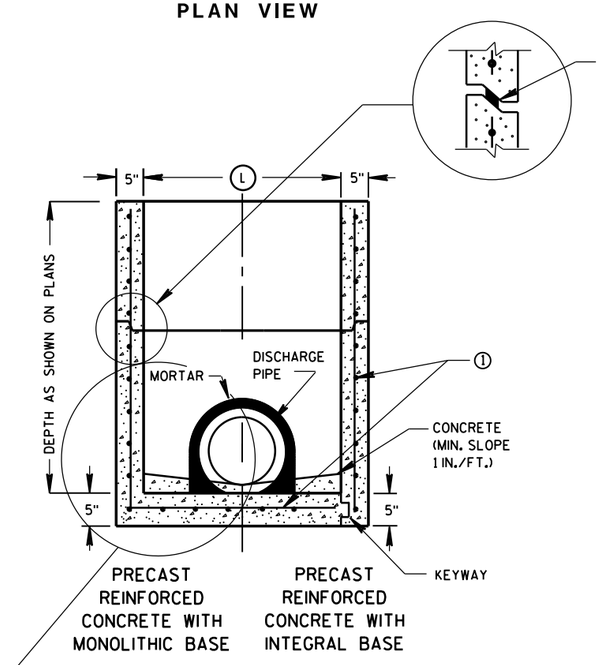
S.D.D. 8 B 9-2



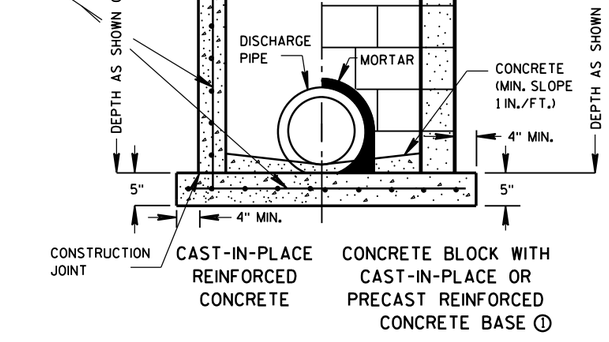
PLAN VIEW



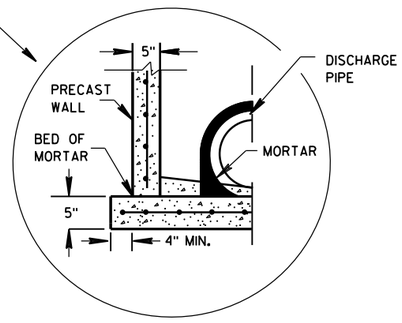
PLAN VIEW



SECTION A-A



SECTION B-B



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATES THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANGING BASES ARE REQUIRED FOR CAST-IN-PLACE REINFORCED CONCRETE AND CONCRETE BLOCK INSTALLATIONS.
4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED.
OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3 INCH CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

① FOR PRECAST INLETS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

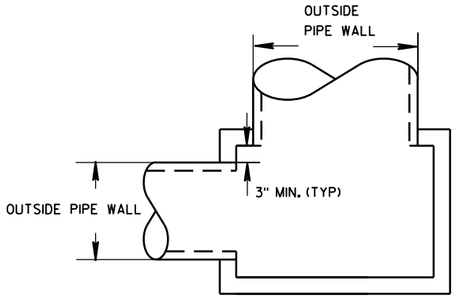
② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

INLET COVER MATRIX

INLET SIZE		INLET COVER TYPE	ALL A'S	ALL B'S	BW	F	ALL H'S	S	T	V	WM
	WIDTH (W) (FT)	LENGTH (L) (FT)									
2X2-FT	2	2	X	X				X		X	
2X2.5-FT	2	2.5			X			X	X	X	X
2X3-FT	2	3					X				
2.5X3-FT	2.5	3				X					

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER	
	WIDTH (IN)	LENGTH (IN)
2X2-FT	12	12
2X2.5-FT	12	18
2X3-FT	12	24
2.5X3-FT	18	24



DETAIL "A"

INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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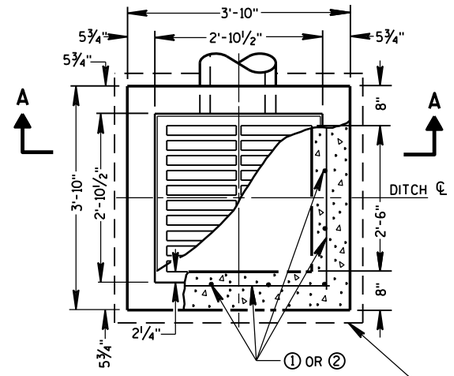
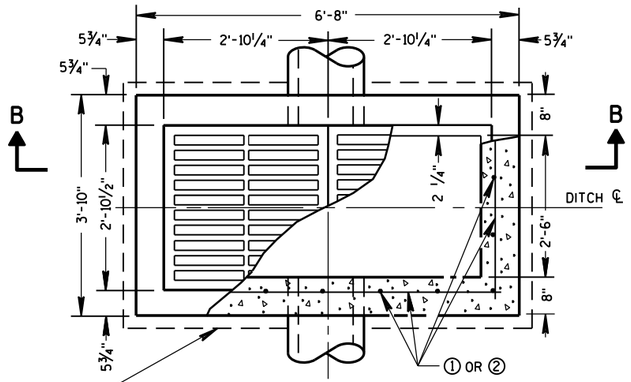
Sept., 2016 — DATE
/S/ Rodney Taylor
ROADWAY STANDARDS D IT UNIT SUPERVIS
FHWA

6
S.D.D. 8 C 7-2

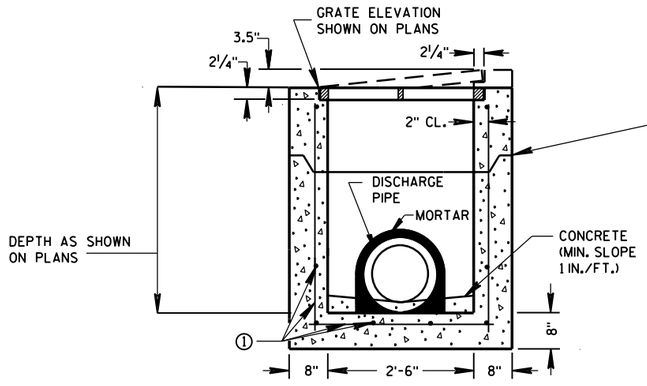


PLAN VIEW

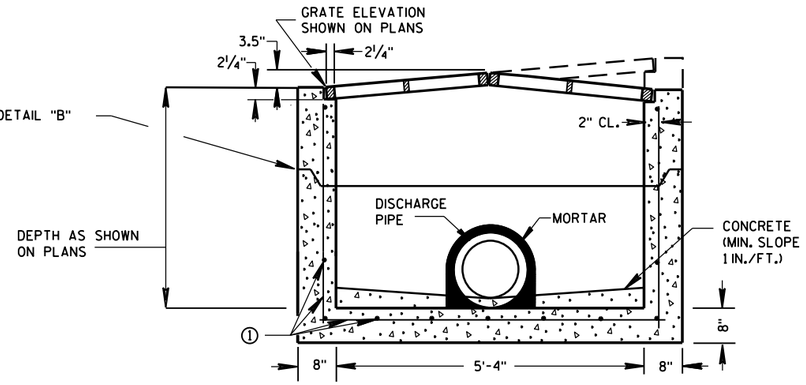


PLAN VIEW

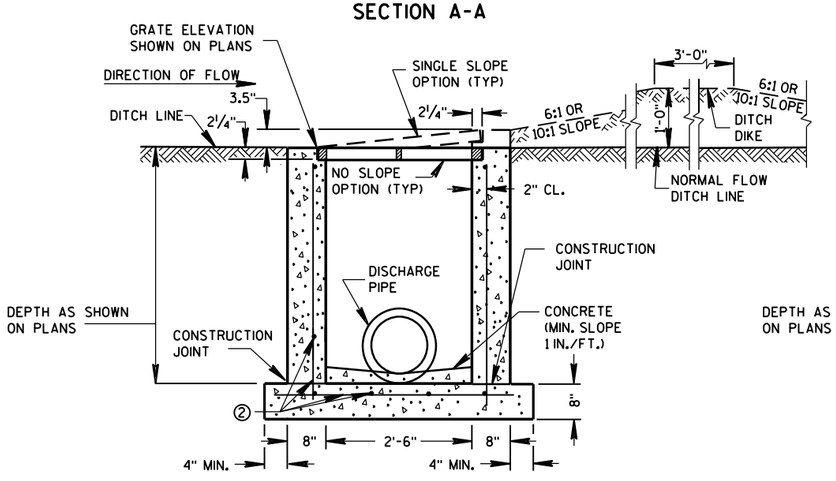
4" OVERHANGING BASE ON REINFORCED CAST-IN-PLACE CONCRETE INLETS



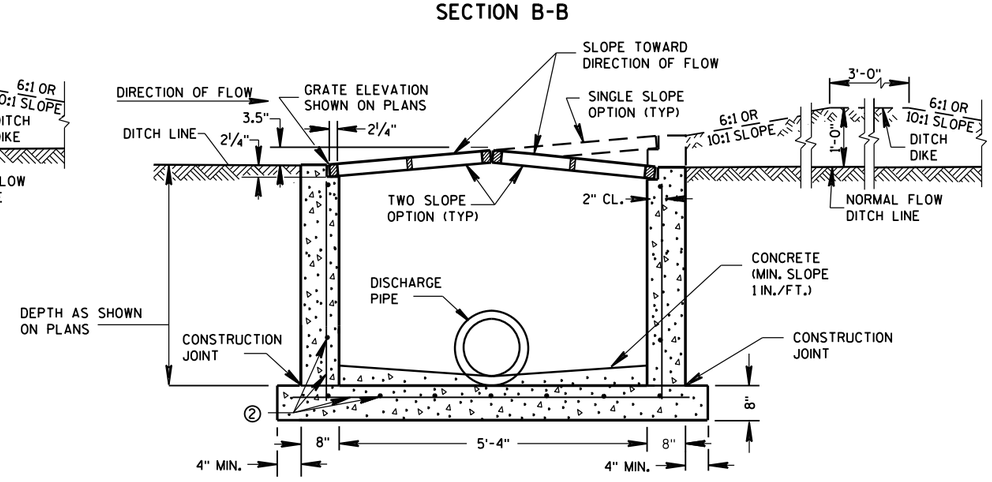
PRECAST REINFORCED CONCRETE SECTION A-A



PRECAST REINFORCED CONCRETE SECTION B-B



REINFORCED CAST-IN-PLACE CONCRETE SECTION A-A



REINFORCED CAST-IN-PLACE CONCRETE SECTION B-B

INLETS MEDIAN 1 GRATE

INLETS MEDIAN 2 GRATE

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLETS WHICH MAY INCLUDE PRECAST REINFORCED CONCRETE INLETS, SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL MEDIAN INLETS ARE DESIGNATED ON THE PLANS AS "INLETS, 1G-MS", ETC. THE FIRST NUMBER AND LETTER DESIGNATE THE TYPE OF STRUCTURE, AND THE FOLLOWING LETTERS DESIGNATE THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

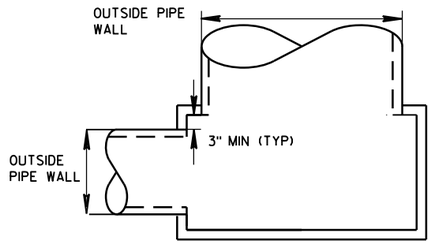
MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3" CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

① FOR PRECAST INLETS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

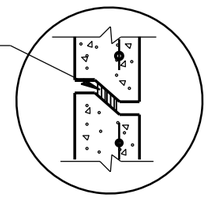
PIPE MATRIX

	MAXIMUM INSIDE PIPE DIAMETER	
INLET SIZE	WIDTH (IN)	LENGTH (IN)
1 GRATE	18	18
2 GRATE	18	42



DETAIL "A"

JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 (TYP)



DETAIL "B"

INLETS MEDIAN 1 AND 2 GRATE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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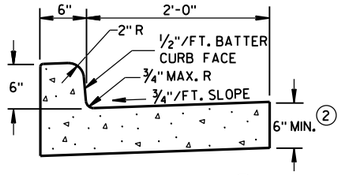
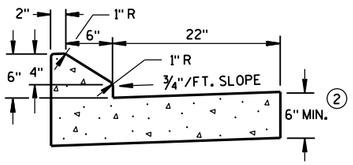
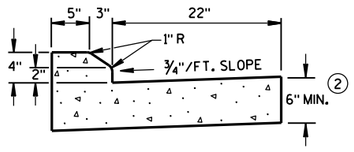


TYPES A & D ①

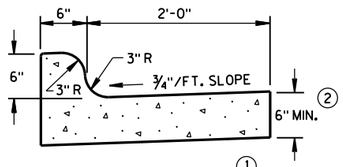


6" SLOPED CURB TYPES G & J ①

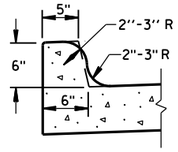


4" SLOPED CURB TYPES G & J ①

CONCRETE CURB & GUTTER 30"

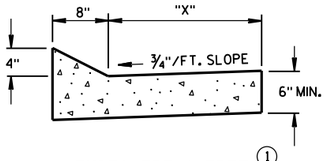


TYPES K & L ①



OPTIONAL CURB SHAPE FOR TYPES K & L ①

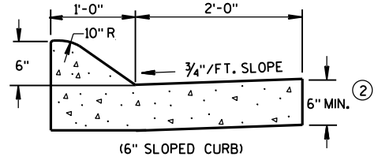
CONCRETE CURB & GUTTER 30"



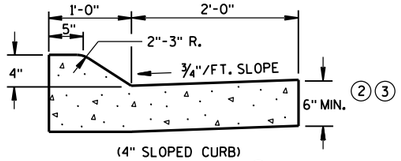
TYPES TBT & TBTT ①

CONCRETE CURB & GUTTER

TBT & TBTT	"X"
30"	22"
36"	28"

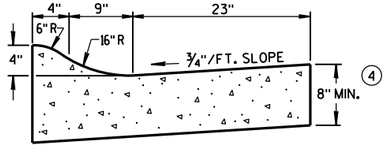


(6" SLOPED CURB)



(4" SLOPED CURB)

TYPES A & D ①



4" SLOPED CURB TYPES R & T ①⑤

CONCRETE CURB & GUTTER 36"

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

INTEGRAL CURB & GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB & GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE. A LONGITUDINAL CONSTRUCTION JOINT IS NOT REQUIRED WITH INTEGRAL CURB AND GUTTER.

WHERE THE TRANSVERSE JOINTS IN THE PAVEMENT ARE REQUIRED TO BE SEALED, THE JOINTS IN THE INTEGRAL CURB AND GUTTER SHALL BE SEALED TO THE FACE OF CURB WITH THE SAME TYPE OF SEALANT. THE COST OF FURNISHING AND INSTALLING THIS SEALANT SHALL BE INCIDENTAL TO THE ITEM CONCRETE CURB AND GUTTER.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2'-0" BEHIND THE BACK OF CURBS.

① TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K, R AND TBTT.

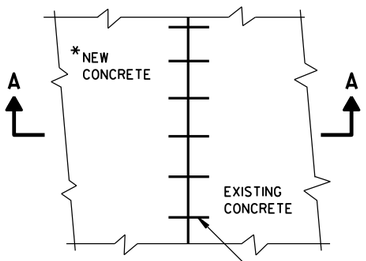
② THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

③ USE 8" MINIMUM GUTTER THICKNESS WHEN USED WITH AN ADJACENT CONCRETE TRUCK APRON PLACED BEHIND BACK OF CURB.

④ THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.

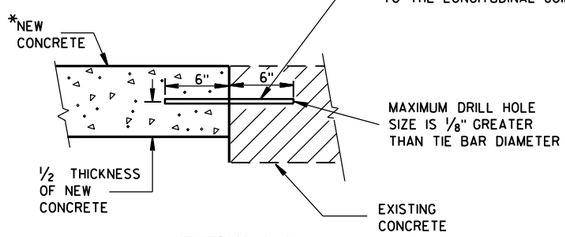
⑤ THE FACE OF CURB IS 6" FROM THE BACK OF CURB.

⑥ WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.



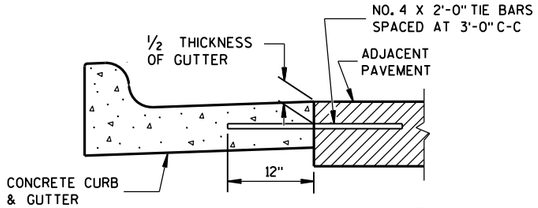
*NEW CURB & GUTTER, SURFACE DRAINS, CONCRETE PAVEMENT OR OTHER NEW CONCRETE.

PLAN VIEW

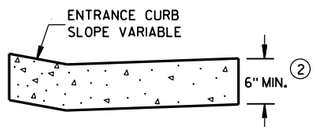


SECTION A-A

TIE BARS DRILLED INTO EXISTING PAVEMENT

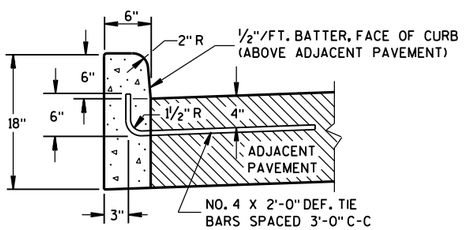


TYPICAL TIE BAR LOCATION ①

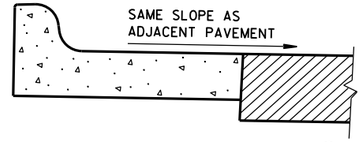


DRIVEWAY ENTRANCE CURB

(WHEN DIRECTED BY THE ENGINEER)

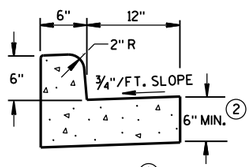


① TYPES A & D



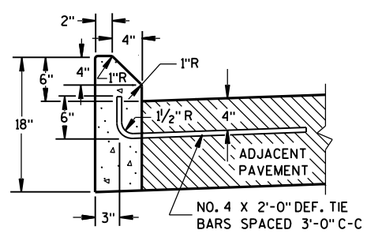
⑥ REVERSE SLOPE GUTTER

(TYPICAL FOR ALL CURB & GUTTER TYPES)



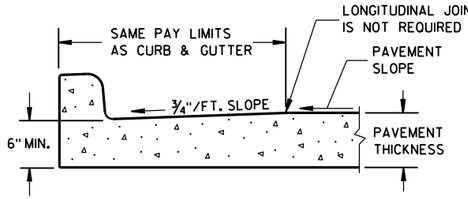
① TYPES A & D

CONCRETE CURB & GUTTER 18"

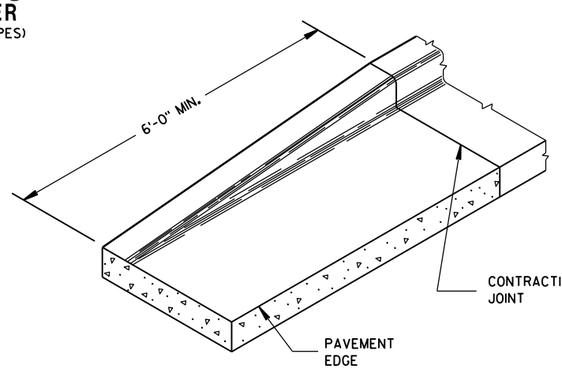


① TYPES G & J

CONCRETE CURB



PARTIAL SECTION OF PAVEMENT WITH INTEGRAL CURB & GUTTER



END SECTION CURB & GUTTER

CONCRETE CURB, CONCRETE CURB & GUTTER AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June, 2016 — DATE

/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA

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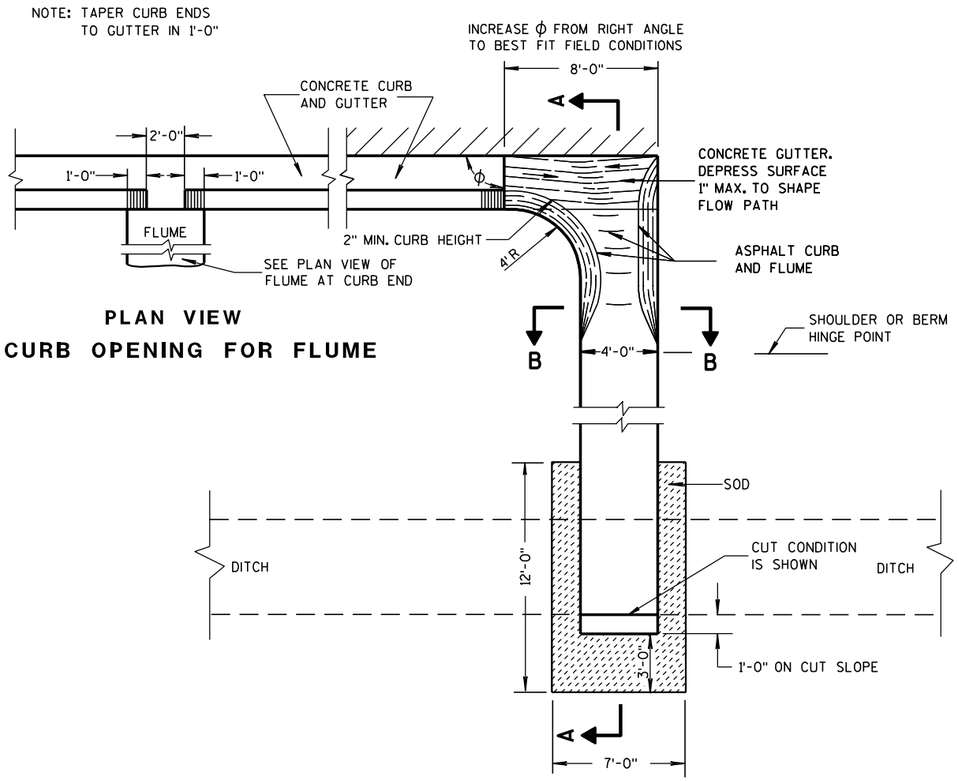
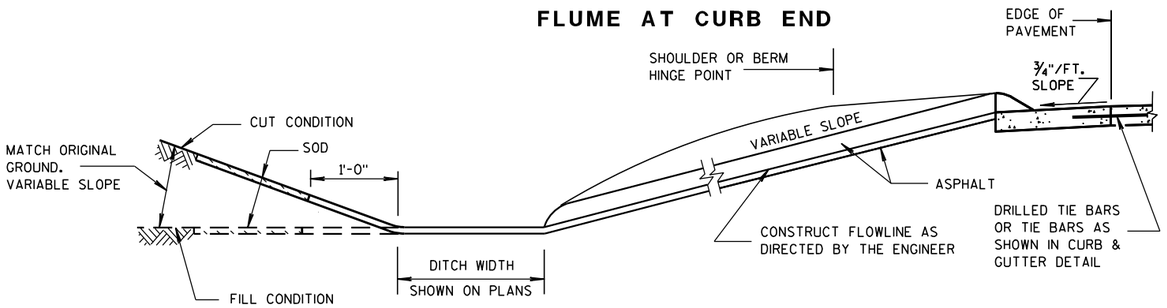
S.D.D. 8 D 1-19

ASPHALTIC FLUME

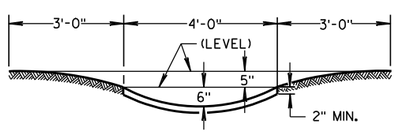


PLAN VIEW
CURB OPENING FOR FLUME

PLAN VIEW
FLUME AT CURB END



SECTION A-A



SECTION B-B

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

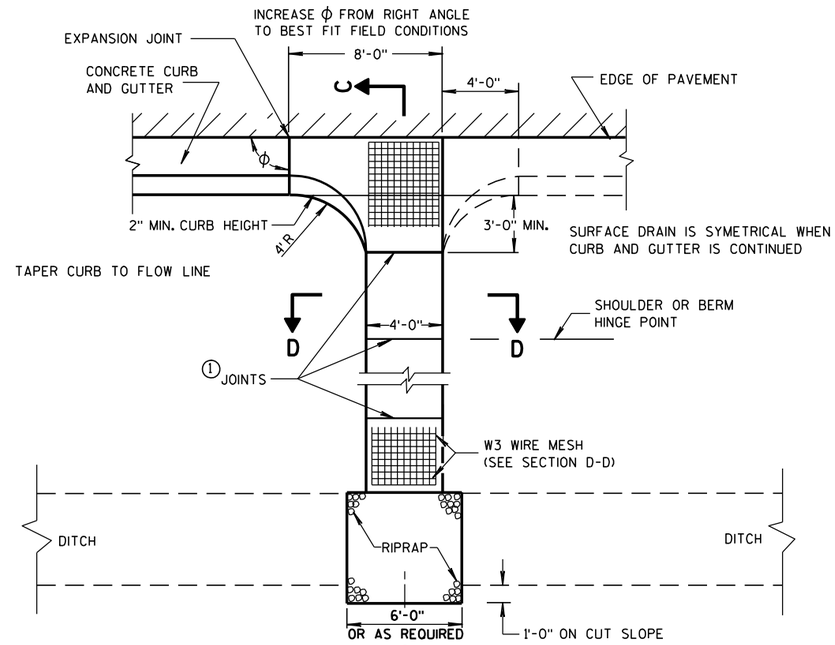
WELDED STEEL WIRE FABRIC SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

① JOINTS SHALL BE $\frac{1}{8}$ TO $\frac{1}{4}$ INCH WIDE BY $1\frac{1}{2}$ INCHES DEEP AND SPACED AT UNIFORM INTERVALS OF APPROXIMATELY 4 FEET.

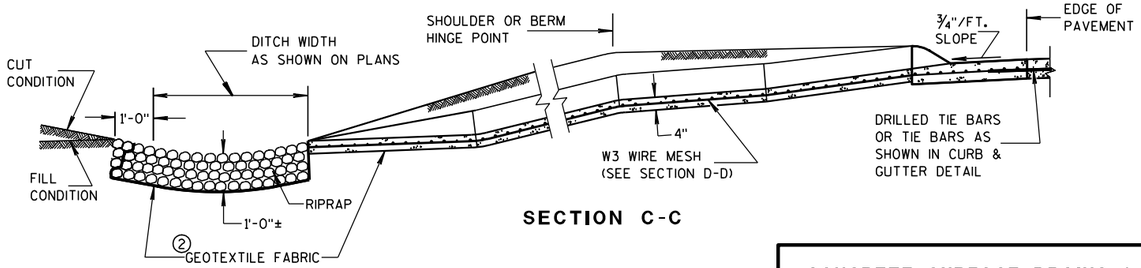
② GEOTEXTILE FABRIC TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.

③ CONCRETE SURFACE DRAIN WITHOUT CURB AND GUTTER MAY BE USED ON BACKSLOPES WHEN SPECIFIED

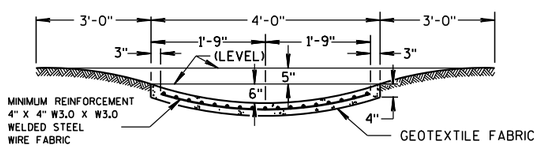
③ CONCRETE SURFACE DRAIN



PLAN VIEW



SECTION C-C



SECTION D-D

CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

9-4-08 DATE — /S/ Jerry H. Zogg ROADWAY STANDARDS ENGINEER — MENT

FHWA

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S.D.D. 8 D 4-5

6

S.D.D. 8 D 4-5

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(1) UNPERFORATED PIPE UNDERDRAIN AND FITTINGS FURNISHED FOR OUTFALL PIPE SHALL MEET THE REQUIREMENTS OF ONE OF THE FOLLOWING SPECIFICATIONS:

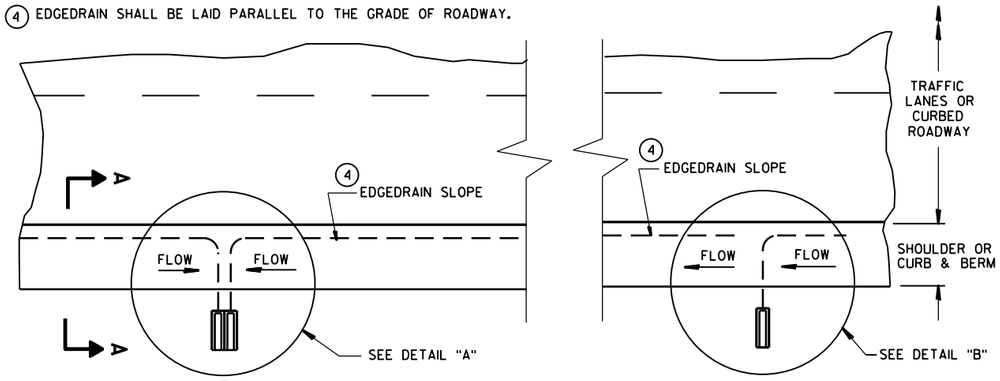
POLYVINYL CHLORIDE (PVC) PLASTIC DRAIN, WASTE, AND VENT PIPE AND FITTINGS, ASTM D 2665, SCHEDULE 40 PVC.

TYPE PSM POLYVINYL CHLORIDE (PVC) SEWER PIPE AND FITTINGS, ASTM D 3034, SDR 23.5 PVC SEWER PIPE.

(2) MAXIMUM SPACING OF EDGEDRAIN OUTLETS SHALL BE 250 FEET UNLESS OTHERWISE SPECIFIED IN THE CONTRACT OR DIRECTED BY THE ENGINEER.

(3) EDGEDRAIN SHALL BE CONNECTED TO INLETS REGARDLESS OF FLOW DIRECTION FOR DRAINAGE AND MAINTENANCE ACCESS.

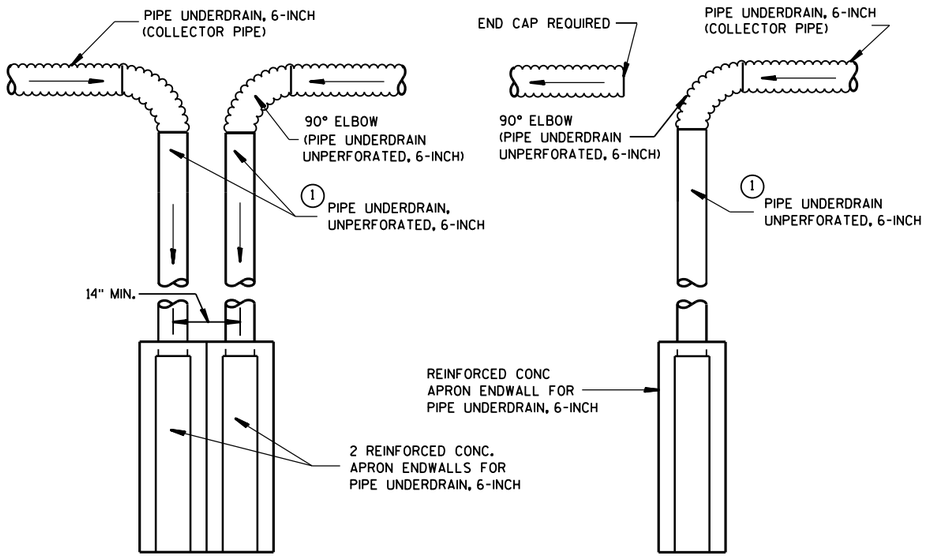
(4) EDGEDRAIN SHALL BE LAID PARALLEL TO THE GRADE OF ROADWAY.



PLAN VIEW

ROADWAY WITH SHOULDERS OR CURBS

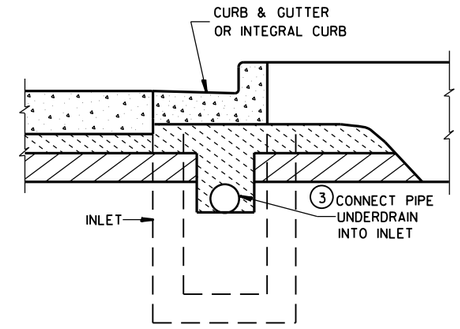
(EDGEDRAIN OUTLETS TO ROADSIDE)(2)



DETAIL "A"
TO BE USED AT LOW POINT LOCATIONS

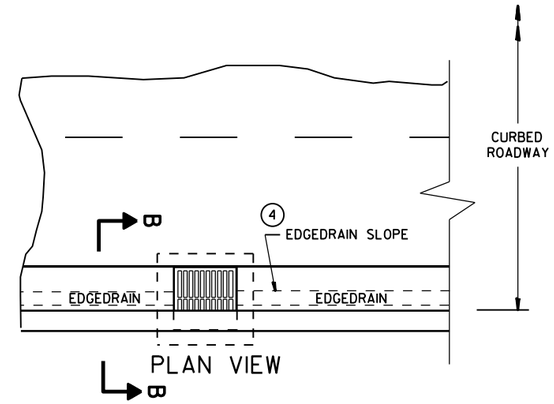
DETAIL "B"
TO BE USED AT INTERMEDIATE LOCATIONS

TYPICAL DRAIN OUT DETAILS



SECTION B-B

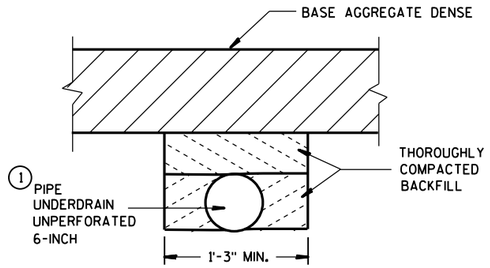
URBAN CROSS SECTION



PLAN VIEW

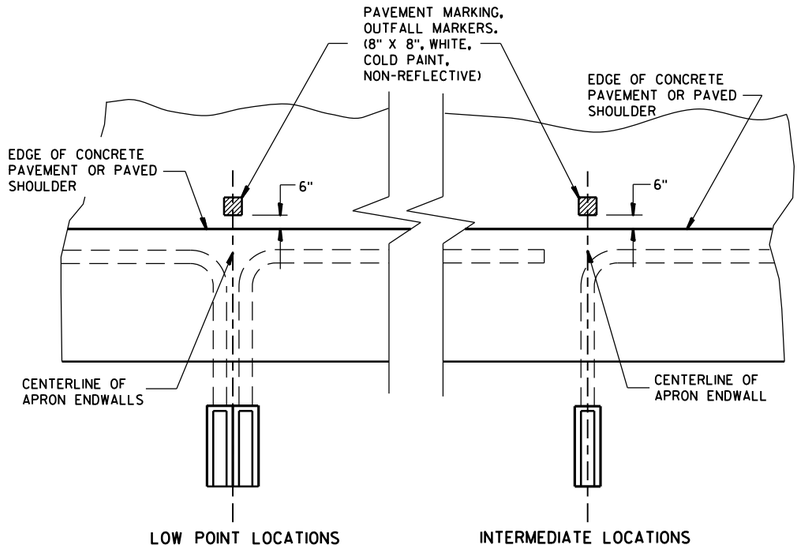
ROADWAY WITH CURBS

(EDGEDRAIN CONNECTS INTO INLET STRUCTURE)



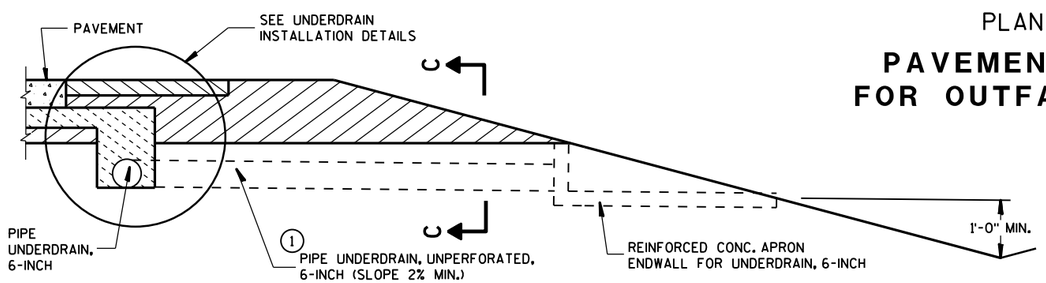
SECTION C-C

(TRENCH FOR OUTFALL PIPE)



PLAN VIEW

PAVEMENT MARKING FOR OUTFALL MARKERS



SECTION A-A

RURAL CROSS SECTION

EDGEDRAIN OUTLET AND OUTFALL MARKERS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

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S.D.D. 8 D 15-5a

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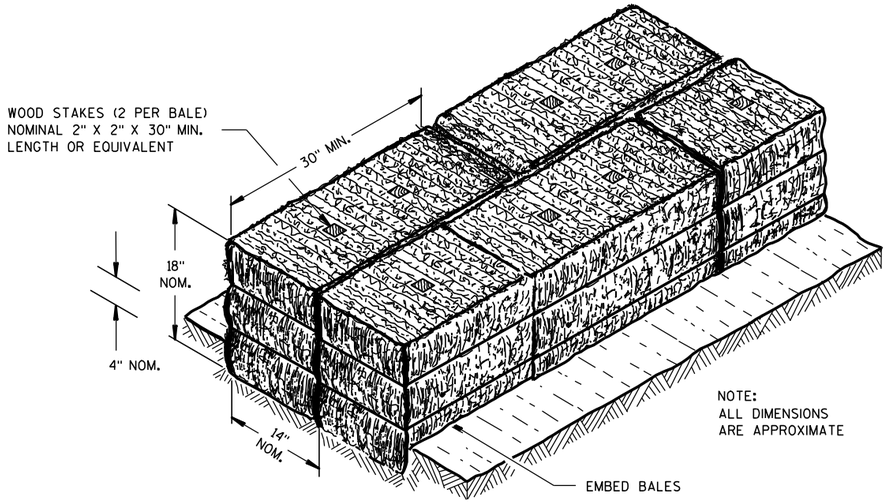
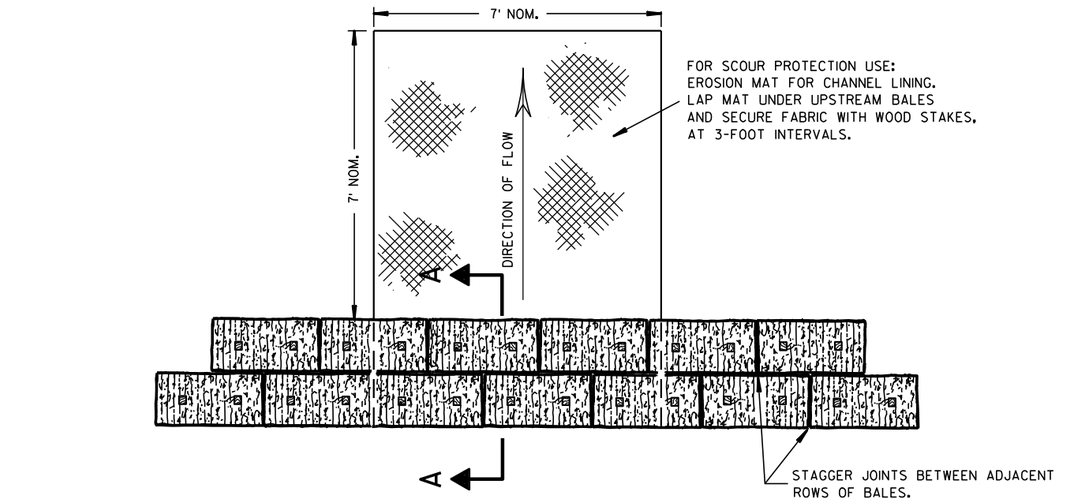
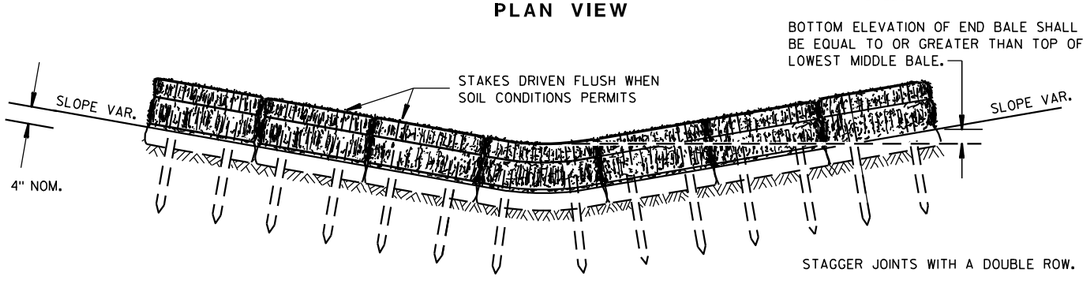
S.D.D. 8 D 15-5a



SECTION A-A



PLAN VIEW



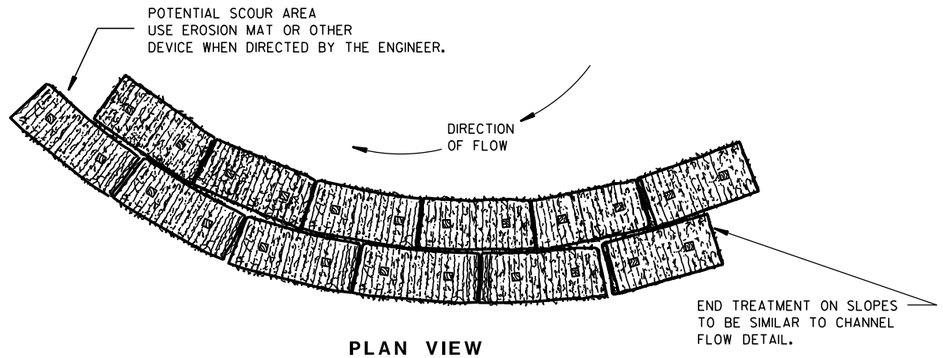
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES (1)

GENERAL NOTES

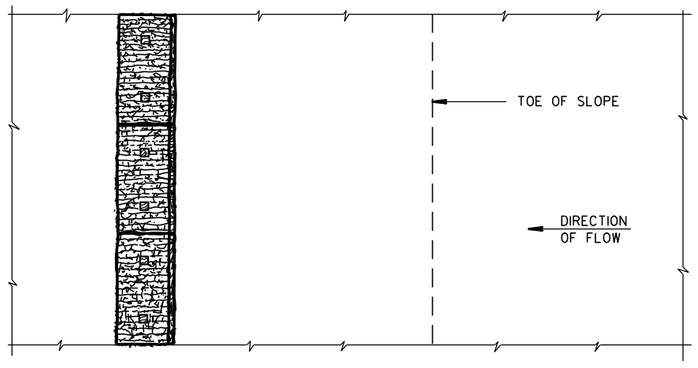
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(1) TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.

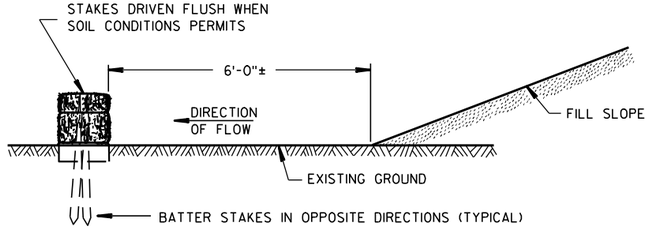


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

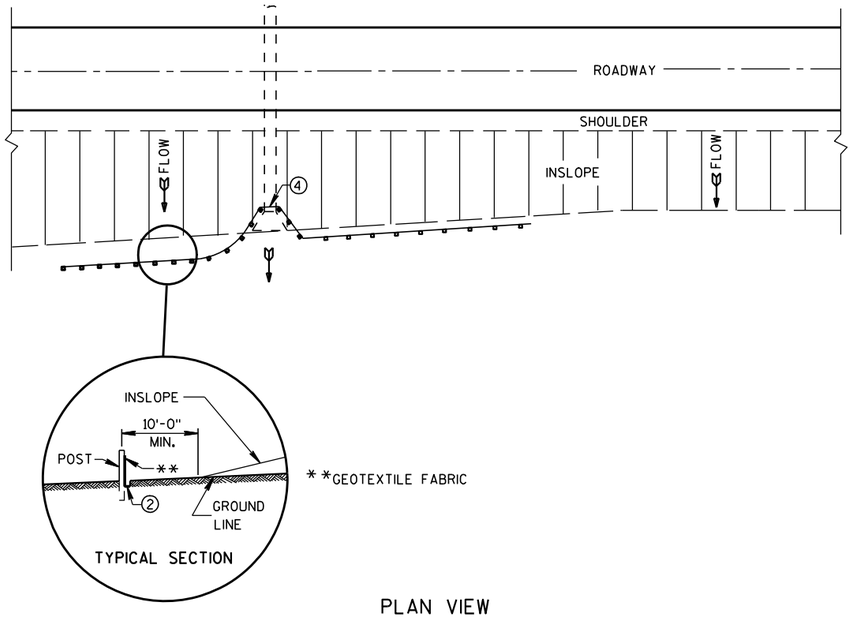
WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

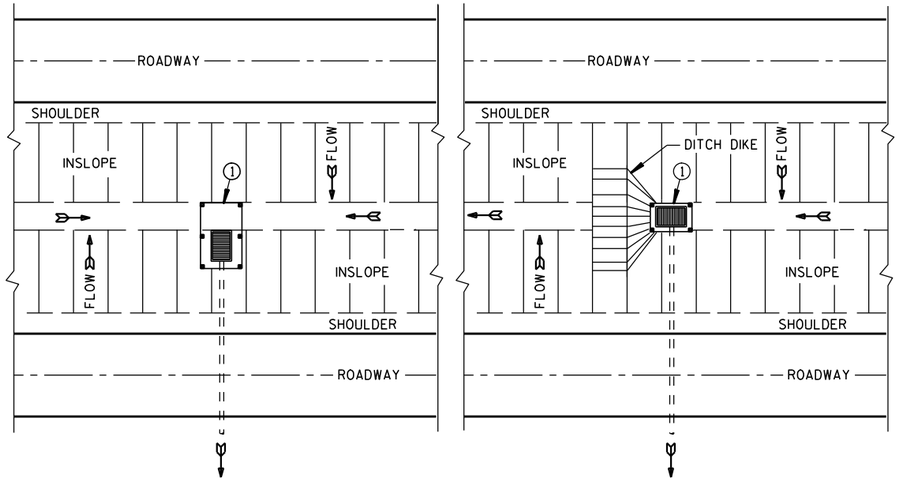
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/04/02 — DATE
/S/ Beth Cannestra — CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



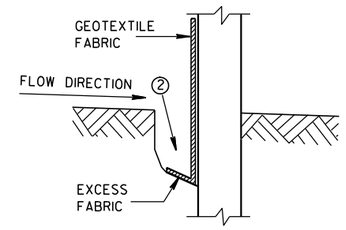
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

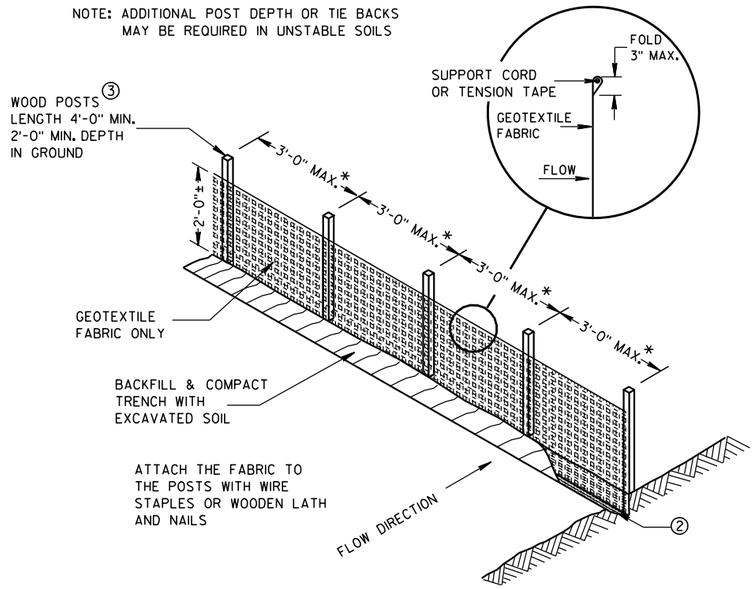
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

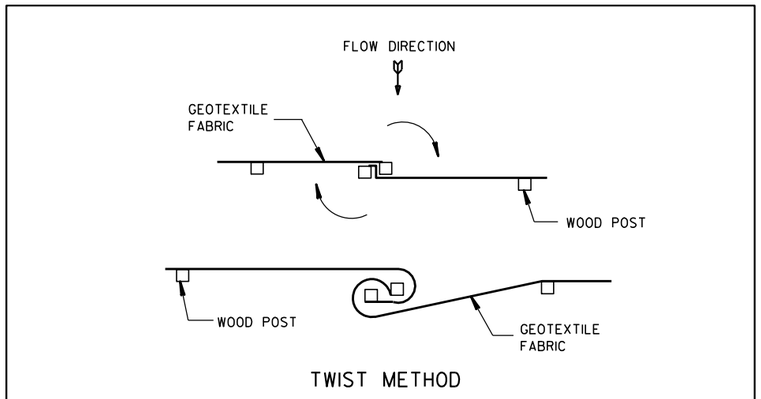
1. HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
2. FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.
4. SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
5. CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



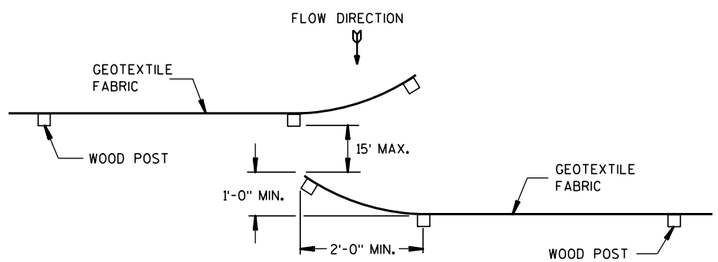
TRENCH DETAIL



SILT FENCE

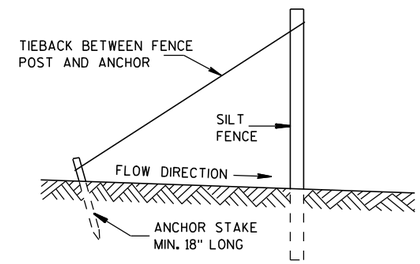


TWIST METHOD



HOOK METHOD

JOINING TWO LENGTHS OF SILT FENCE 5



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

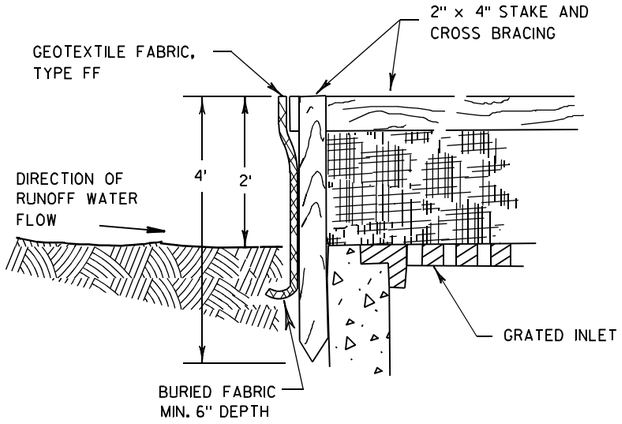
APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

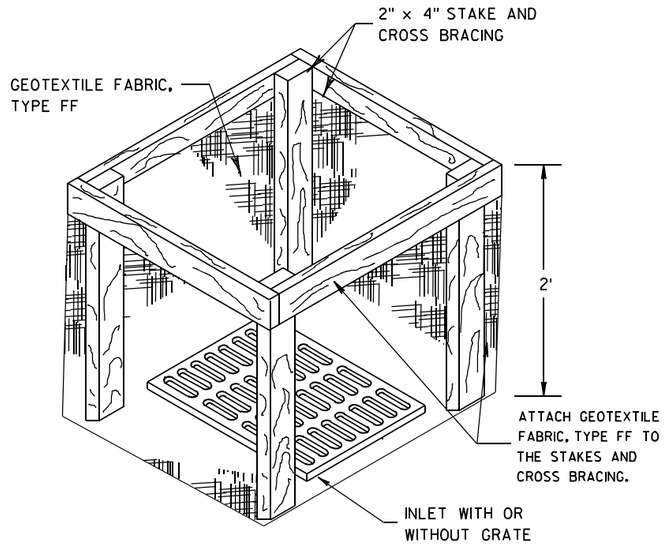
6

S.D.D. 8 E 9-6

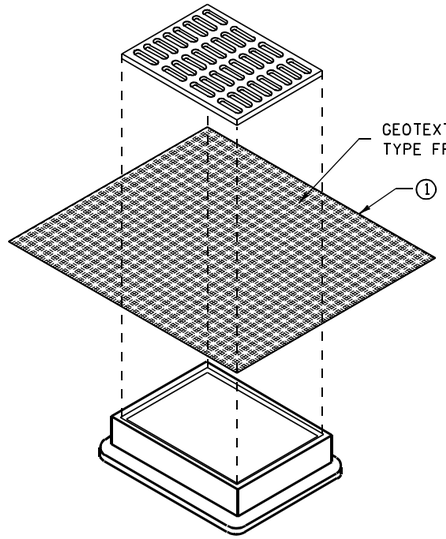
6

S.D.D. 8 E 9-6



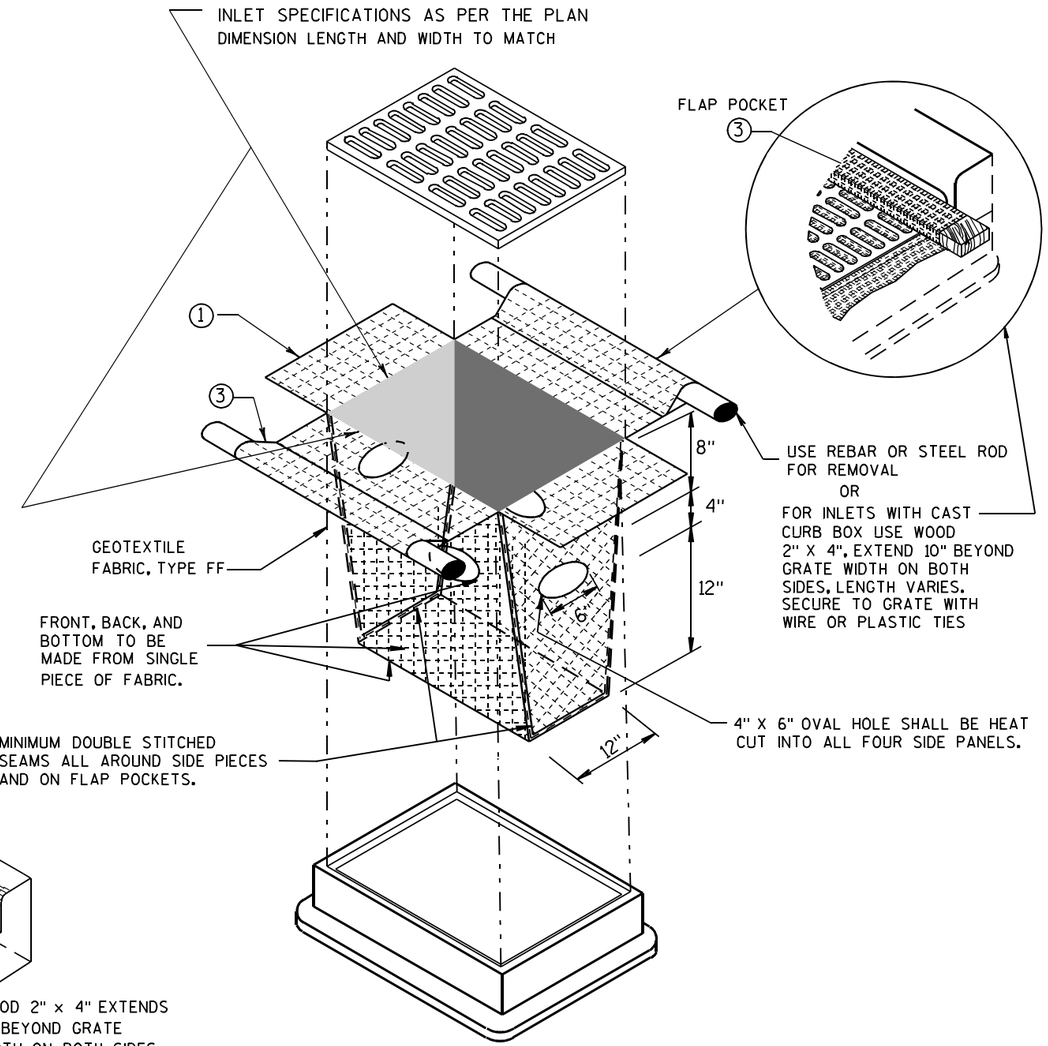


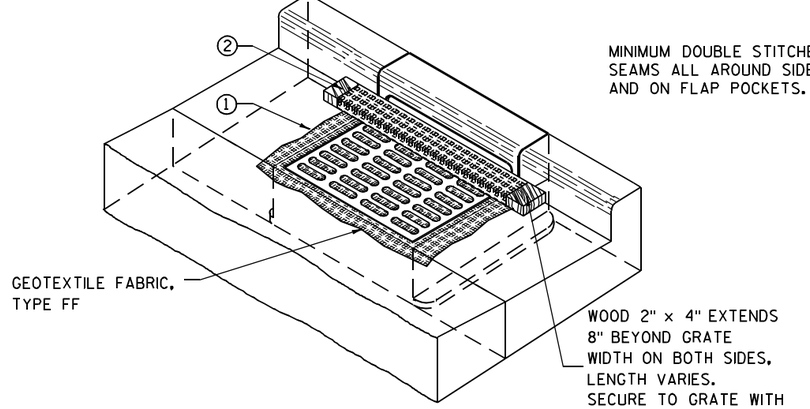
INLET PROTECTION, TYPE A



INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)





INLET PROTECTION, TYPE C (WITH CURB BOX)

INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH
OR WITHOUT A CURB BOX AS PER NOTE ②)

GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION
TYPE A, B, C, AND D

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

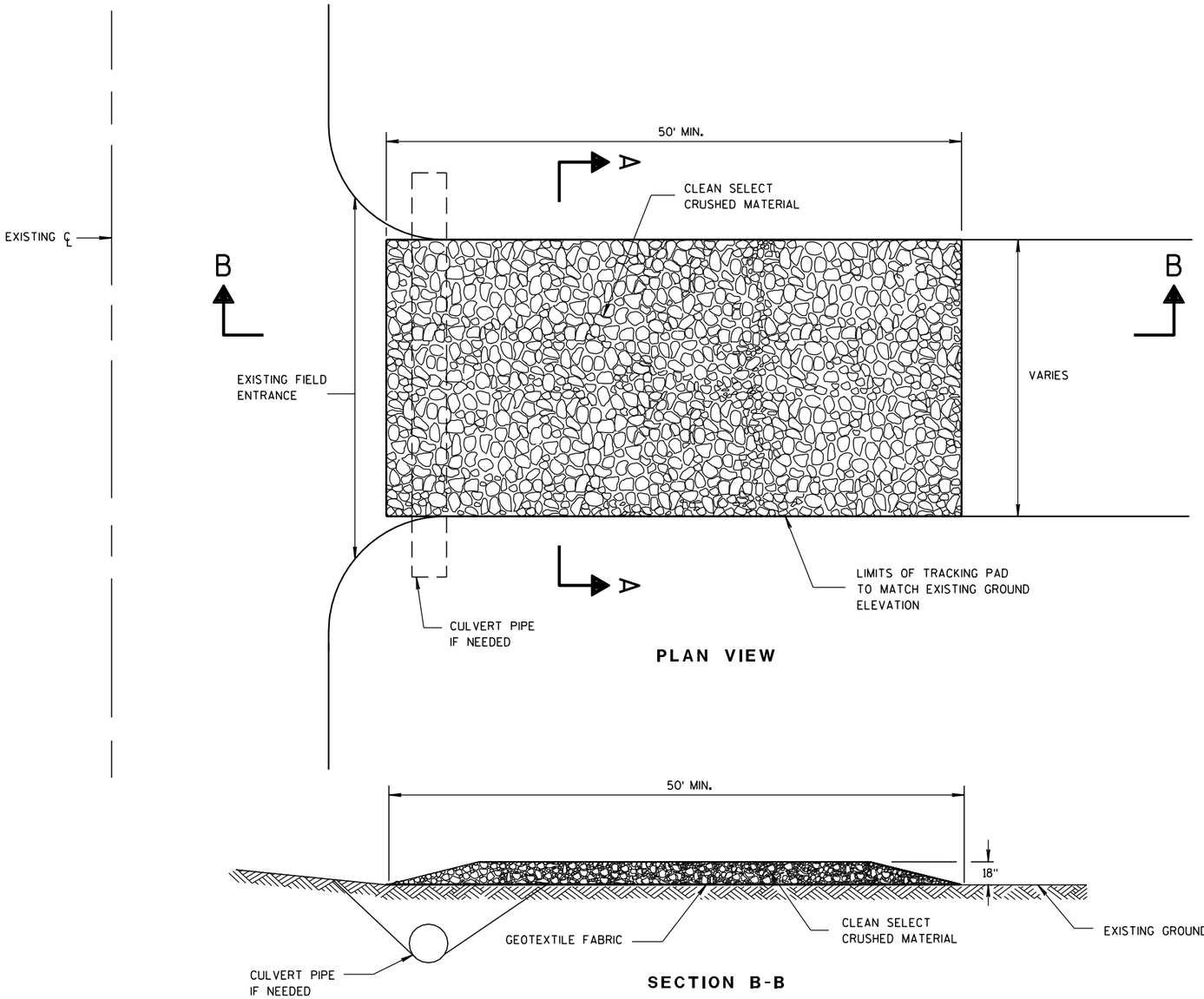
APPROVED

10/16/02
DATE

/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

6
S.D.D. 8 E 10-2



PLAN VIEW

SECTION B-B

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

TRACKING PAD SHALL BE INSPECTED DAILY. DEFICIENT AREAS SHALL BE REPAIRED OR REPLACED IMMEDIATELY.

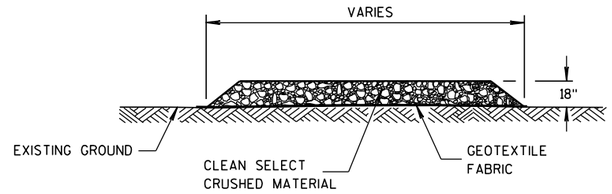
TRACKING PAD TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

TRACKING PAD SHALL BE THE FULL WIDTH OF THE EGRESS POINT.

SURFACE WATER MUST BE PREVENTED FROM PASSING THROUGH THE TRACKING PAD. FLOWS SHALL BE DIVERTED AWAY, AROUND OR CONVEYED UNDER THE TRACKING PAD.

CULVERT PIPE OR OTHER BMP USED TO DIVERT WATER AWAY, AROUND OR UNDER THE TRACKING PAD SHALL BE DESIGNED TO CONVEY THE 2 YEAR - 24 HOUR EVENT.

THE COST OF ADDITIONAL BMP TO DIVERT WATER ARE INCIDENTAL TO THE TRACKING PAD BID ITEM.



SECTION A-A

TRACKING PAD

TRACKING PAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
3/24/2011 — DATE
/S/ Jerry H. Zoda — ROADWAY STANDARDS ENGINEER
FHWA

6

S.D.D. 8 E 14-1

6

S.D.D. 8 E 14-1

METAL APRON ENDWALLS

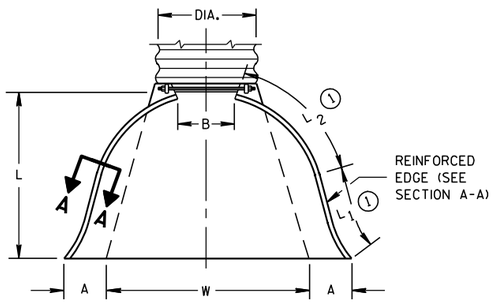
PIPE DIA. (IN.)	MIN. THICK. (Inches)		DIMENSIONS (Inches)							APPROX. SLOPE	BODY
	STEEL	ALUM.	A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")		
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	36	2 1/2 to 1	1 Pc.
21	.064	.060	9	12	6	36	18	29 5/8	42	2 1/2 to 1	1 Pc.
24	.064	.075	10	13	6	41	18	37 1/4	48	2 1/2 to 1	1 Pc.
30	.079	.075	12	16	8	51	18	52 1/4	60	2 1/2 to 1	1 Pc.
36	.079	.105	14	19	9	60	24	59 3/4	72	2 1/2 to 1	2 Pc.
42	.109	.105	16	22	11	69	24	75 5/8	84	2 1/2 to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 1/4 to 1	3 Pc.
54	.109	.105	18	30	12	84	30	85 1/2	102	2 1/4 to 1	3 Pc.
60	.109×	.105×	18	33	12	87	—	—	114	2 to 1	3 Pc.
66	.109×	.105×	18	36	12	87	—	—	120	2 to 1	3 Pc.
72	.109×	.105×	18	39	12	87	—	—	126	2 to 1	3 Pc.
78	.109×	.105×	18	42	12	87	—	—	132	1 1/2 to 1	3 Pc.
84	.109×	.105×	18	45	12	87	—	—	138	1 1/2 to 1	3 Pc.
90	.109×	.105×	18	37	12	87	—	—	144	1 1/2 to 1	3 Pc.
96	.109×	.105×	18	35	12	87	—	—	150	1 1/2 to 1	3 Pc.

× EXCEPT CENTER PANEL SEE GENERAL NOTES

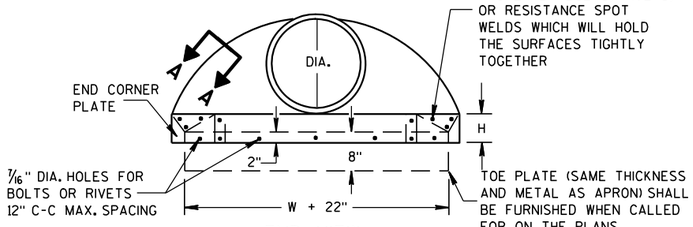
REINFORCED CONCRETE APRON ENDWALLS

PIPE DIA. (IN.)	DIMENSIONS (Inches)							APPROX. SLOPE
	T	A	B	C	D	E	G	
12	2	4	24	48 7/8	72 1/8	24	2	3 to 1
15	2 1/4	6	27	46	73	30	2 1/4	3 to 1
18	2 1/2	9	27	46	73	36	2 1/2	3 to 1
21	2 3/4	9	36	37 1/2	73 1/2	42	2 3/4	3 to 1
24	3	9 1/2	43 1/2	30	73 1/2	48	3	3 to 1
27	3 1/4	10 1/2	49 1/2	24	73 1/2	54	3 1/4	3 to 1
30	3 1/2	12	54	19 3/4	73 1/2	60	3 1/2	3 to 1
36	4	15	63	34 3/4	97 3/4	72	4	3 to 1
42	4 1/2	21	63	35	98	78	4 1/2	3 to 1
48	5	24	72	26	98	84	5	3 to 1
54	5 1/2	27	65	* 33 1/4 - ** 35	* 98 1/4 - ** 100	90	5 1/2	2 2/5 to 1
60	6	* 30 - ** 35	60	39	99	96	5	2 to 1
66	6 1/2	* 24-30 **	* 72-78 **	* 21-27 **	99	102	5 1/2	2 to 1
72	7	* 24-36 **	78	21	99	108	6	2 to 1
78	7 1/2	* 24-36 **	78	21	99	114	6 1/2	2 to 1
84	8	36	90 1/2	21	111 1/2	120	6 1/2	1 1/2 to 1
90	8 1/2	41	87 1/2	24	111 1/2	132	6 1/2	1 1/2 to 1

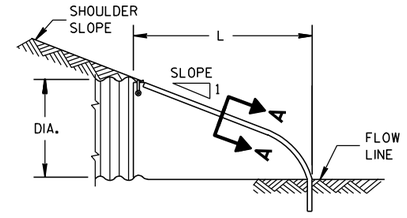
* MINIMUM
** MAXIMUM



PLAN VIEW

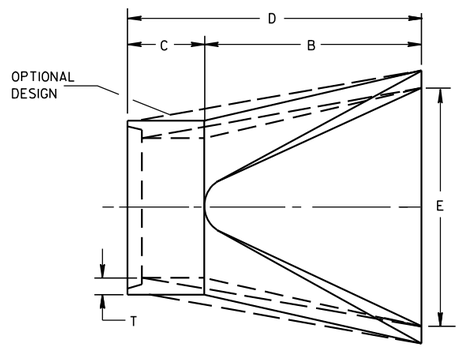


END VIEW

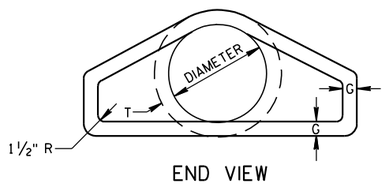


SIDE ELEVATION

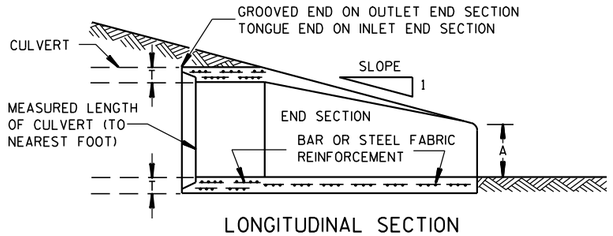
METAL ENDWALLS



PLAN

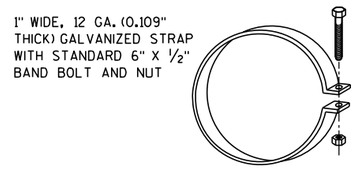


END VIEW



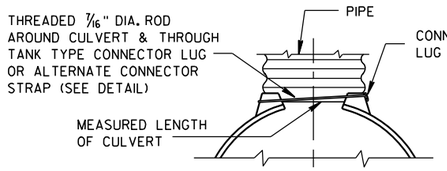
LONGITUDINAL SECTION

CONCRETE ENDWALLS

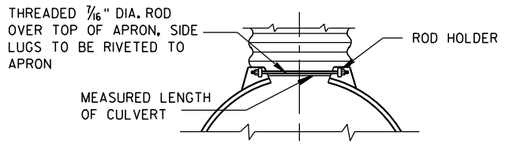


ALTERNATE FOR TYPE 1 CONNECTION

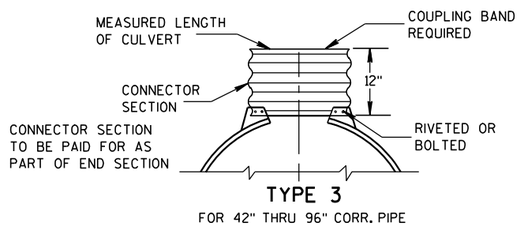
END SECTION CONNECTOR STRAP



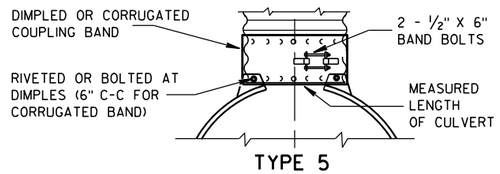
TYPE 1
FOR 12" THRU 24" CORR. PIPE



TYPE 2
FOR 30" THRU 96" CORR. PIPE



TYPE 3
FOR 42" THRU 96" CORR. PIPE



TYPE 5
ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

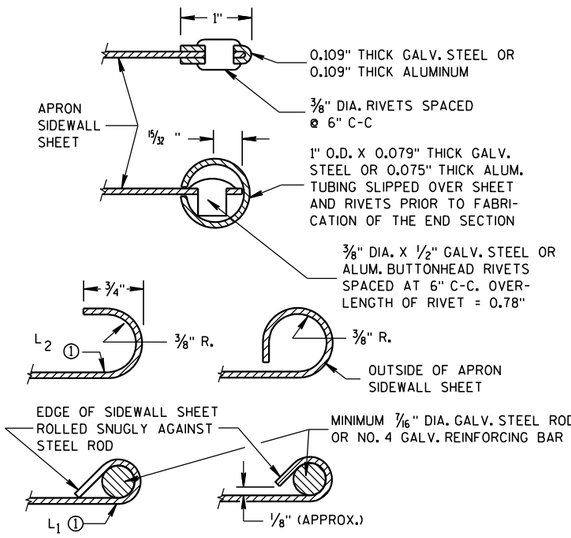
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5 AS APPLICABLE.

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

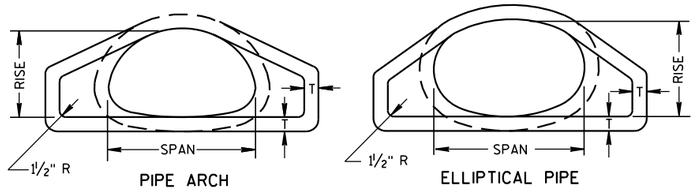
① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR CULVERT PIPE

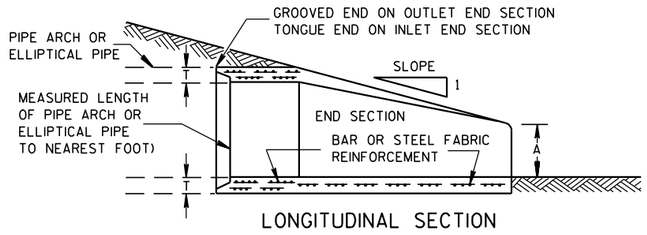
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/30/94 DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

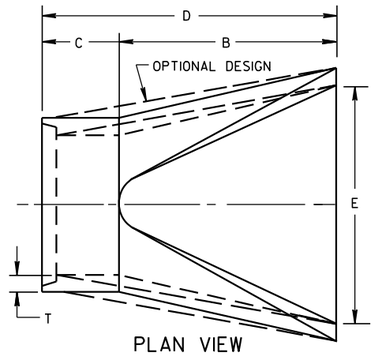
6
S.D.D. 8 F 1-11



END VIEW

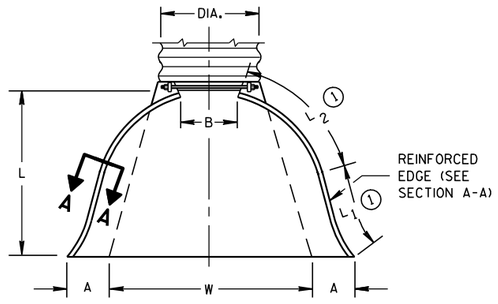


LONGITUDINAL SECTION

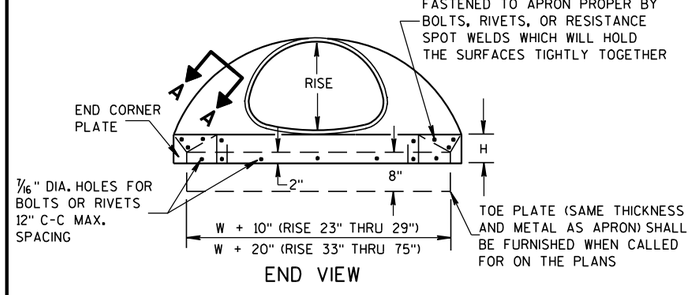


PLAN VIEW

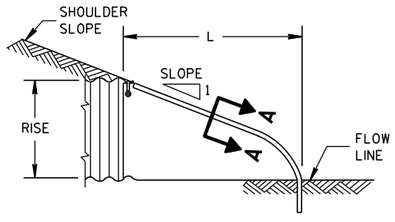
CONCRETE ENDWALLS



PLAN VIEW

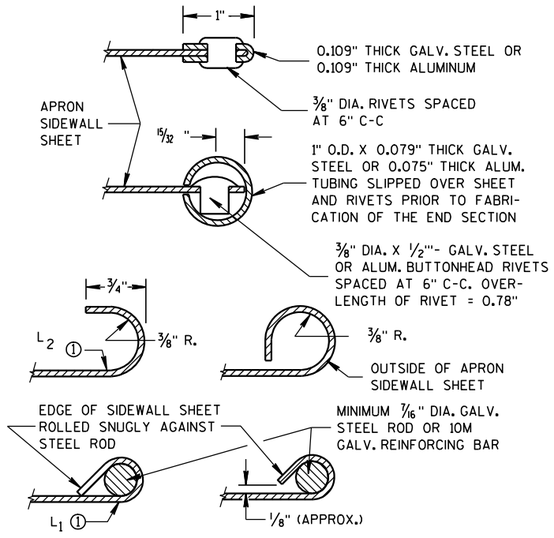


END VIEW



SIDE ELEVATION

METAL ENDWALLS



SECTION A-A

2- 2/3" X 1/2" CORRUGATIONS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
15	17	13	.064	.060	7	9	6	19	14	16	30	2½ to 1	1 Pc.
18	21	15	.064	.060	7	10	6	23	14	19⅜	36	2½ to 1	1 Pc.
21	24	18	.064	.060	8	12	6	28	18	21¾	42	2½ to 1	1 Pc.
24	28	20	.064	.060	9	14	6	32	18	27½	48	2½ to 1	1 Pc.
30	35	24	.079	.075	10	16	6	39	18	37⅝	60	2½ to 1	1 Pc.
36	42	29	.079	.075	12	18	8	46	24	45⅜	75	2½ to 1	1 Pc.
42	49	33	.109	.105	13	21	9	53	24	54¾	85	2½ to 1	2 Pc.
48	57	38	.109	.105	18	26	12	63	24	68	90	2½ to 1	3 Pc.
54	64	43	.109	.105	18	30	12	70	24	72¾	102	2¼ to 1	3 Pc.
60	71	47	.109*	.105*	18	33	12	77	30	82¼	114	2¼ to 1	3 Pc.
66	77	52	.109*	.105*	18	36	12	77	—	—	126	2 to 1	3 Pc.
72	83	57	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.

3" X 1" CORRUGATIONS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
48	53	41	.109	.105	18	26	12	63	24	72¾	90	2½ to 1	2 Pc.
54	60	46	.109	.105	18	30	12	70	30	82¼	102	2 to 1	2 Pc.
60	66	51	.109*	.105*	18	33	12	77	—	—	114	1½ to 1	3 Pc.
66	73	55	.109*	.105*	18	36	12	77	—	—	126	1½ to 1	3 Pc.
72	81	59	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.
78	87	63	.109*	.105*	22	38	12	77	—	—	148	1½ to 1	3 Pc.
84	95	67	.109*	.105*	22	34	12	77	—	—	162	1½ to 1	3 Pc.
90	103	71	.109*	.105*	22	38	12	77	—	—	174	1½ to 1	3 Pc.
96	112	75	.109*	.105*	24	40	12	77	—	—	174	1½ to 1	3 Pc.

NOTE: ALL SPLICES TO BE LAP RIVETED OR BOLTED.

* EXCEPT CENTER PANEL SEE GENERAL NOTES

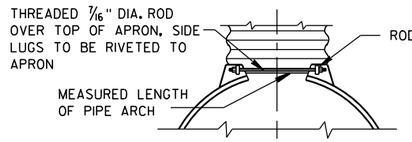
REINFORCED CONCRETE PIPE ARCH

EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	29	18	3	8½	39	33	72	48	3 to 1
30	36	22	3½	9½	50	46	96	60	3 to 1
36	44	27	4	11⅛	60	36	96	72	3 to 1
42	51	31	4½	15 13/16	60	36	96	78	3 to 1
48	58	36	5	21	60	36	96	84	3 to 1
54	65	40	5½	25½	60	36	96	90	3 to 1
60	73	45	6	31	60	36	96	96	3 to 1
72	88	54	7	31	60	39	99	120	2 to 1
84	102	62	8	28½	83	19	102	144	2 to 1

REINFORCED CONCRETE ELLIPTICAL PIPE

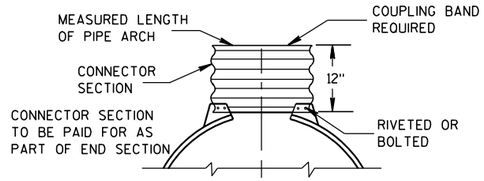
EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	30	19	3¼	8½	39	33	72	48	3 to 1
30	38	24	3¾	9½	54	18	72	60	3 to 1
36	45	29	4½	11⅛	60	24	84	72	2½ to 1
42	53	34	5	15¾	60	36	96	78	2½ to 1
48	60	38	5½	21	60	36	96	84	2½ to 1
54	68	43	6	25½	60	36	96	90	2½ to 1
60	76	48	6½	30	60	36	96	96	2½ to 1

**NOMINAL SIZE



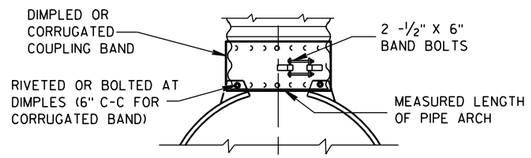
TYPE 2

FOR 17" X 13" THRU 112" X 75" PIPE ARCH



TYPE 3

FOR 64" X 43" THRU 112" X 75" PIPE ARCH



TYPE 5

ALTERNATE FOR:

ALL SIZES CORRUGATED PIPE ARCHES

NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL, AND CORRUGATED BAND FITS INSIDE ENDWALL.

CONNECTION DETAILS

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

CONCRETE APRON ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM APRON ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE ARCH PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 77" X 52" THROUGH 112" X 75" APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

① FOR PIPE ARCH SIZES UP TO 73" X 55" A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

11/30/94 — DATE

/S/ Rory L. Rhinesmith — CHIEF ROADWAY DEVELOPMENT ENGINEER

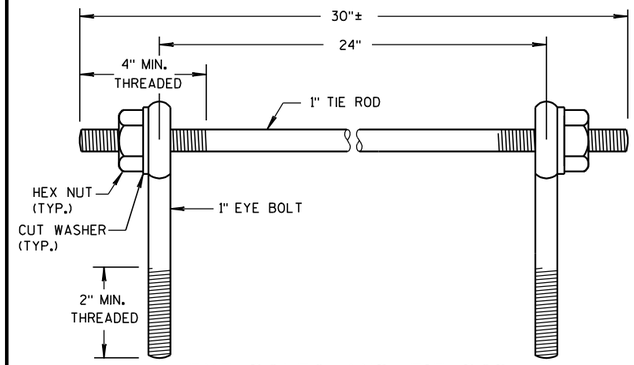
FHWA

6

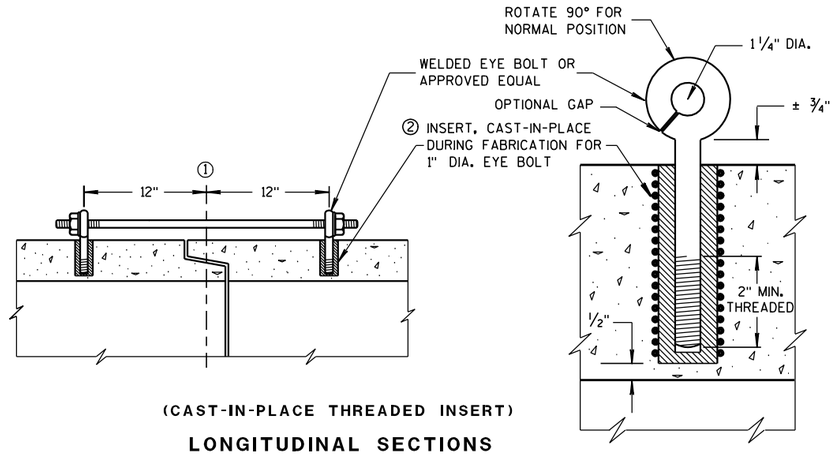
S.D.D. 8 F 2-1

6

S.D.D. 8 F 2-1



EYE BOLTS AND TIE ROD



(CAST-IN-PLACE THREADED INSERT)

LONGITUDINAL SECTIONS

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 1)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT AND STORM SEWER PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED IN THE STANDARD SPECIFICATIONS AND THE PLAN. THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR DRAINAGE STRUCTURES. ONLY ALTERNATE 1 AND 3 MAY BE USED FOR CATTLE PASSES, UNLESS OTHERWISE STATED IN THE CONTRACT. THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE THE PIPE BY THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO THE PIPE AND APRON ENDWALLS IF REQUIRED.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

JOINT TIES TO BE HOT-DIP GALVANIZED PER ASTM A 153.

① ℄ OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.

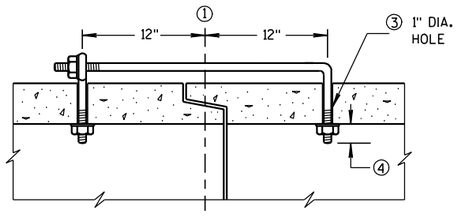
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

③ HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12 INCHES FROM ℄ OF TONGUE AND GROOVE.

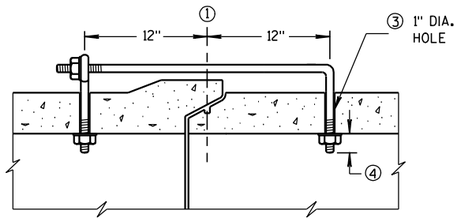
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

⑤ OPENING TO BE ROD DIAMETER PLUS 1 INCH.

⑥ LENGTH ADEQUATE TO EXTEND TO WITHIN 1/2 INCH OF THE INNER SURFACE OF THE PIPE.



(TONGUE & GROOVE PIPE)

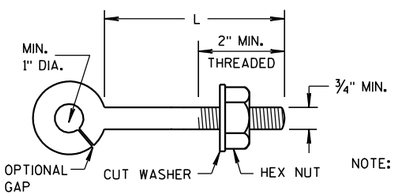


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

EYE BOLT DIMENSION TABLE

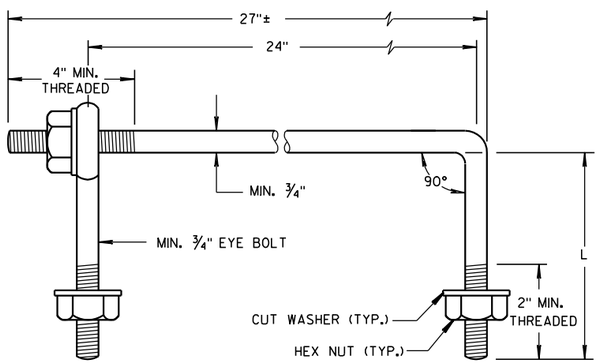
PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	



NOTE:

EYE BOLT

NOTE: TWO EYE BOLTS MAY BE USED WITH A 30" LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.



EYE BOLT AND TIE ROD

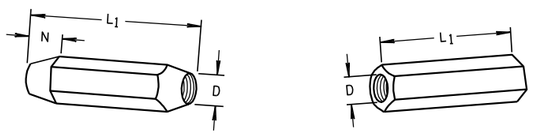
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 2)

ADJUSTABLE TIE ROD TABLE

PIPE DIAMETER	TIE ROD DIAMETER	D	L_1	N
12-60	5/8	5/8	5	1/2
66-84	3/4	3/4	5	1/2
90-108	1	1	7	1 1/16

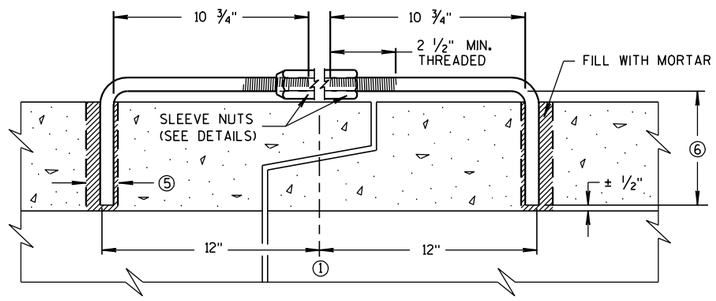
DIMENSIONS SHOWN ARE IN INCHES



TAPERED PLAIN

RIGHT AND LEFT THREADS

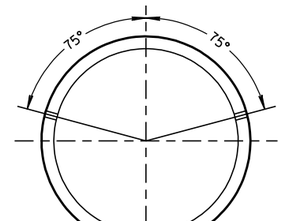
SLEEVE NUTS



LONGITUDINAL SECTION

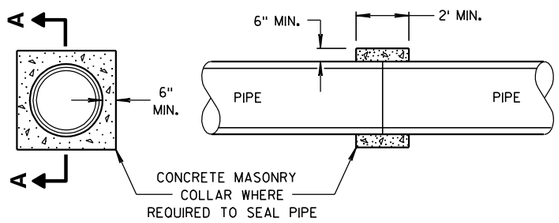
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



PLACEMENT OF (2) CAST-IN-PLACE INSERTS OR HOLES DURING FABRICATION FOR PIPE SECTIONS REQUIRING TIE RODS

TRANSVERSE SECTION



SECTION A-A

CONCRETE COLLAR DETAIL

JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/5/2012 DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER
FHWA

6

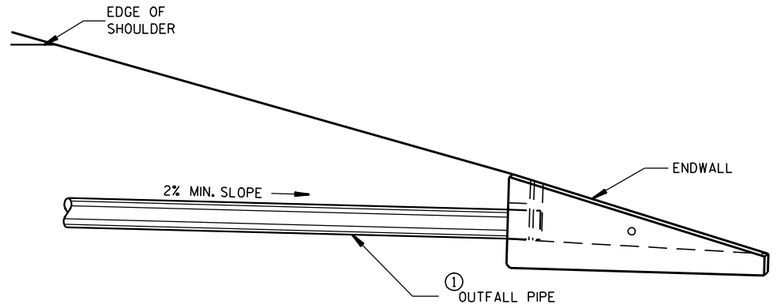
S.D.D. 8 F 4-7

6

S.D.D. 8 F 4-7

DIMENSIONS IN INCHES											
PIPE DIA.	A	B	C	D	E	F	G	H	J	L	Z
**4	6	12	5 1/4	9	8	32	36	11	2 3/8	6 1/2	4
6	8	14	7 1/4	11	10	42	44	13	3 5/8	8 1/2	6

**APRON ENDWALL FOR 6 INCH DIAMETER PIPE MAY BE SUBSTITUTED FOR THIS SIZE PROVIDED THE HOLE IN THE HEADWALL IS SIZED AND LOCATED TO CONFORM TO THE 4 INCH DIAMETER PIPE DIMENSIONS (C & J)



INSTALLATION DETAIL

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

ALTERNATIVE DESIGNS WHICH PROVIDE EQUIVALENT CAPACITY AND STRENGTH MAY BE USED WHEN APPROVED BY THE ENGINEER. ENDWALL MAY BE EITHER PRECAST OR CAST-IN-PLACE CONCRETE.

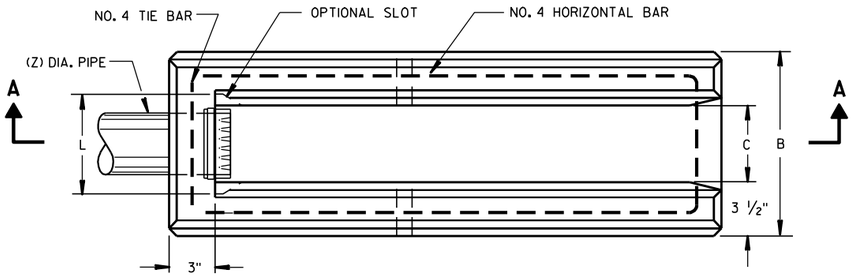
THE UNDERDRAIN PIPE SHALL BE FULLY INSERTED AND SEALED INTO THE ENDWALL WITH CEMENT MORTAR PRIOR TO BACKFILLING AROUND THE STRUCTURE.

THE UPPERMOST POINT OF THE ENDWALL SHALL BE PLACED FLUSH WITH THE ROADWAY SLOPE. ADJACENT EMBANKMENT SLOPES SHALL BE SHAPED TO FIT THE SIDES AND TOE OF THE ENDWALL. EXACT PLACEMENT OF THE OUTFALL PIPE AND ENDWALL SHALL BE DETERMINED BY THE ENGINEER TO MATCH THE ELEVATIONS AND FLOW DIRECTION OF THE ROADSIDE DITCH.

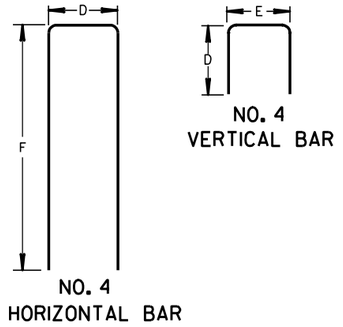
① THE OUTFALL PIPE UNDERDRAIN AND FITTINGS SHALL CONFORM TO THE REQUIREMENTS OF THE SPECIFICATION FOR POLY (VINYL CHORIDE) (PVC) PLASTIC DRAIN, WASTE AND VENT PIPE AND FITTINGS, ASTM DESIGNATION: D 2665, SCHEDULE 40 PVC OR THE STANDARD SPECIFICATION FOR TYPE PSM POLY (VINYL CHORIDE) (PVC) SEWER PIPE AND FITTINGS, ASTM DESIGNATION: D 3034, TYPE PSM SDR 23.5 PVC SEWER PIPE, ALL JOINTS SHALL BE SOLVENT WELDED.

THE OUTFALL PIPE INCLUDING ALL FITTINGS AND THE RODENT SHIELD SHALL BE MEASURED AND PAID FOR AS PIPE UNDERDRAIN UNPERFORATED.

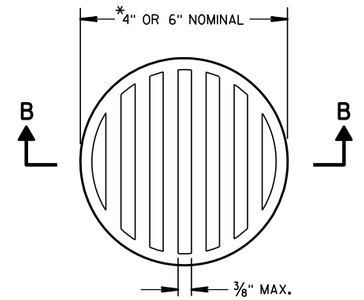
② THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE OUTFALL PIPE. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.

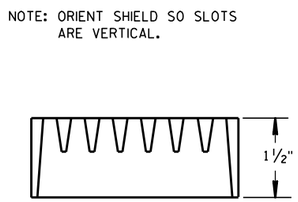


PLAN VIEW



BAR STEEL REINFORCEMENT DETAILS

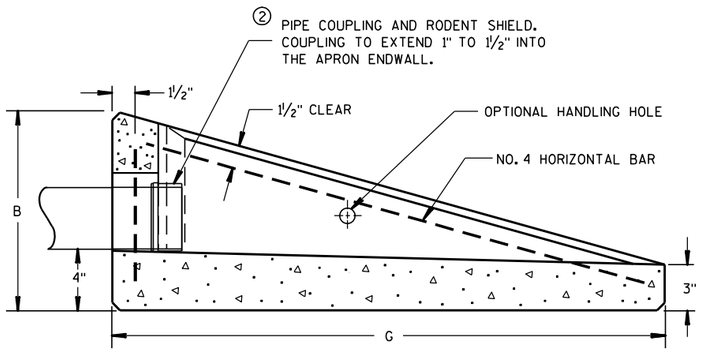




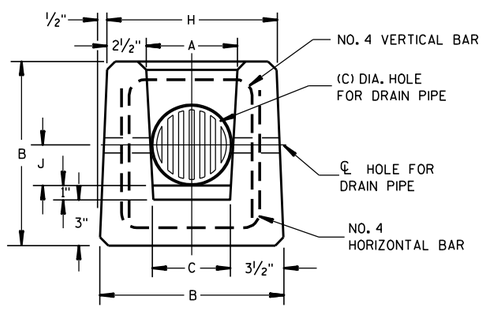
SECTION B-B

② RODENT SHIELD

*NOTE: DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING.



SECTION A-A



END VIEW

CONCRETE APRON ENDWALL FOR UNDERDRAIN

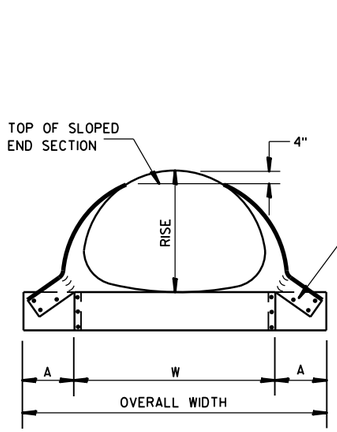
REINFORCED CONCRETE APRON ENDWALL FOR PIPE UNDERDRAIN

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

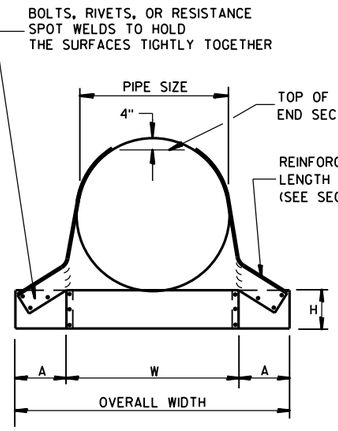
APPROVED
3/10/98 DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

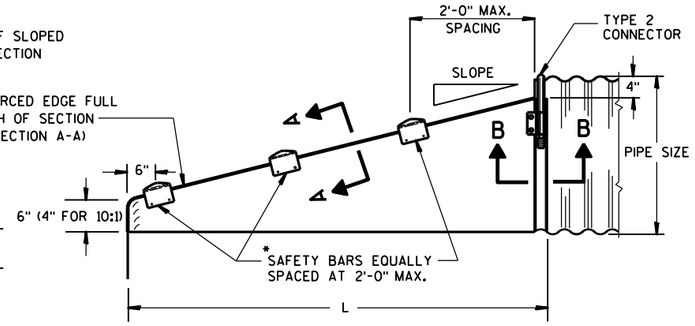
S.D.D. 8 F 6-4



FRONT VIEW



FRONT VIEW



SIDE VIEW

GENERAL NOTES

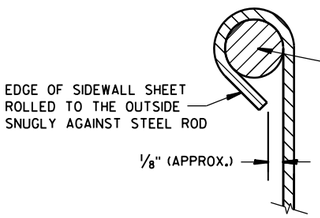
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

SLOPED END SECTIONS SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS, SECTION 521 FOR STEEL APRON ENDWALLS.

SAFETY BARS SHALL BE FABRICATED FROM GALVANIZED STEEL PIPE MEETING THE REQUIREMENTS OF ASTM A-53, GRADE B, SCHEDULE 40 OR APPROVED EQUAL.

STEEL APRON ENDWALLS FOR CULVERT PIPE
SLOPED SIDE DRAINS

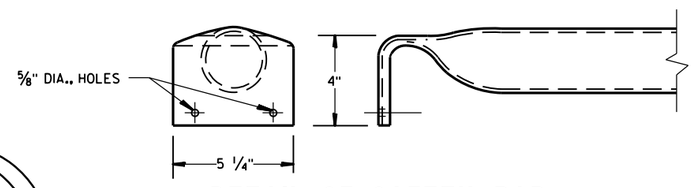
PIPE DIA. (IN.)	MIN. THICK. (Inches)	DIMENSIONS (Inches)				L DIMENSIONS					
		A	H	W	OVERALL WIDTH	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES
15	.064	8	6	21	37	4:1	20	6:1	30	10:1	70
18	.064	8	6	24	40	4:1	32	6:1	48	10:1	100
21	.064	8	6	27	43	4:1	44	6:1	66	10:1	130
24	.064	8	6	30	46	4:1	56	6:1	84	10:1	160
30	.109	12	9	36	60	4:1	80	6:1	120	10:1	220
36	.109	12	9	42	66	4:1	104	6:1	156	10:1	280
42	.109	16	12	48	80	4:1	128	6:1	192	——	——
48	.109	16	12	54	86	4:1	152	6:1	228	——	——
54	.109	16	12	60	92	4:1	176	6:1	264	——	——
60	.109	16	12	66	98	4:1	200	6:1	300	——	——



SECTION A-A

*NOTE:
THREE SAFETY BARS ARE SHOWN. ACTUAL NUMBER OF BARS REQUIRED AT A 2'-0" C-C MAX. SPACING WILL VARY DEPENDING ON THE LENGTH OF THE END SECTION.

3" GALVANIZED PIPE. FLATTEN ENDS, THEN BEND OUTSIDE 4" TO MATCH END SECTION SIDES.

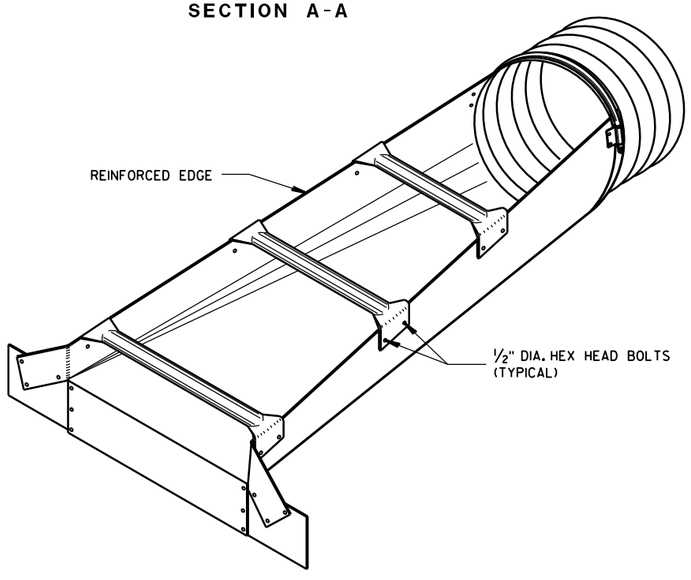


DETAIL OF SAFETY BAR

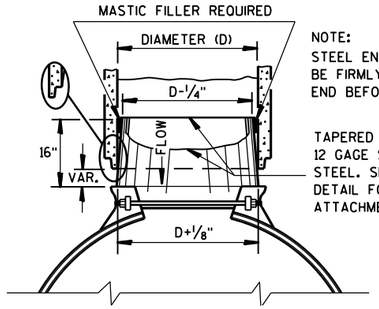
STEEL APRON ENDWALLS FOR PIPE ARCH
SLOPED SIDE DRAINS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) ①	DIMENSIONS (Inches) A	H	W	OVERALL WIDTH	L DIMENSIONS SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES
15	17	13	.064 *	7	6	30	44	4:1	19	6:1	30	10:1 ②	70
18	21	15	.064 *	8	6	27	43	4:1	20	6:1	30	10:1	70
21	24	18	.064 *	8	6	30	46	4:1	32	6:1	48	10:1	100
24	28	20	.064 *	8	6	34	50	4:1	40	6:1	60	10:1	120
30	35	24	.079 *	12	9	41	65	4:1	56	6:1	84	10:1	160
36	42	29	.109 *	12	9	48	72	4:1	76	6:1	114	10:1	210
42	49	33	.109	16	12	55	87	4:1	92	6:1	138	——	——
48	57	38	.109	16	12	63	95	4:1	112	6:1	168	——	——
54	64	43	.109	16	12	70	102	4:1	132	6:1	198	——	——

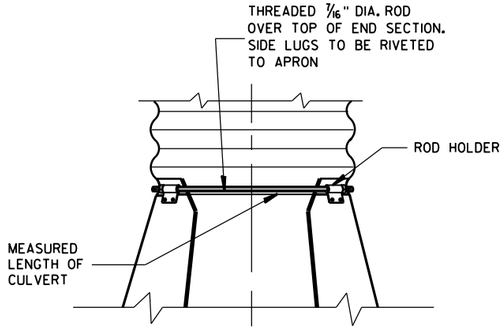
① * MINIMUM THICKNESS OF ALL 10:1 SLOPED SIDE DRAINS IS 0.109".
② ACTUAL SLOPE GREATER THAN 10:1.



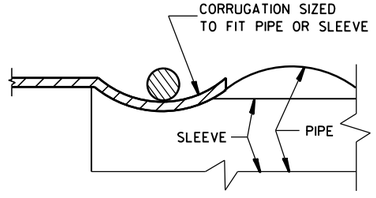
ISOMETRIC VIEW



STEEL ADAPTER SLEEVE FOR CONCRETE PIPE



TYPE 2
CONNECTION DETAIL



SECTION B-B

STEEL APRON ENDWALLS FOR CULVERT PIPE AND PIPE ARCH SLOPED SIDE DRAINS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

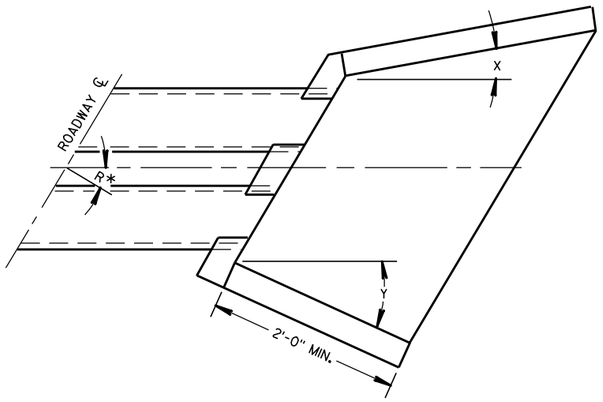
APPROVED
9/14/2012 DATE
/S/ Jerry H. Zoda
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 8 F 7-5

6

S.D.D. 8 F 7-5



WINGWALL ANGLE DETAILS

INLET			OUTLET		
R*	X	Y	R*	X	Y
0 - 7°	30°	30°	0 - 15°	15°	15°
8 - 22°	25°	"	16 - 45°	10°	"
23 - 37°	20°	"	46 - 75°	5°	"
38 - 52°	15°	"	OVER 75°	0°	"
53 - 67°	10°	"			
68 - 82°	5°	"			
OVER 82°	0°	"			

*R = NUMBER OF DEGREES RIGHT OR LEFT HAND FORWARD

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

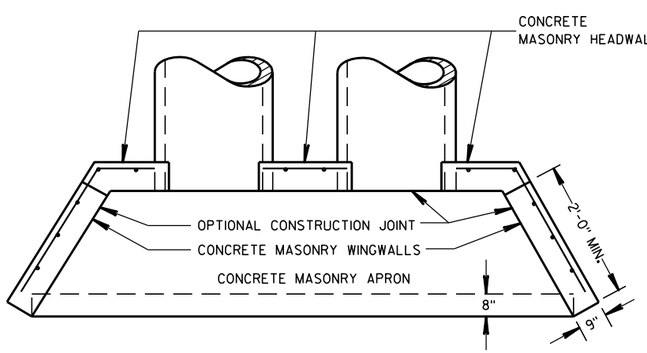
FILL SLOPES FLATTER THAN 2 ½:1 SHALL BE WARPED TO MEET THE TOP OF THE WINGWALLS.

ALL STEEL REINFORCEMENT AND WELDED STEEL WIRE FABRIC SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE NOTED.

(1) MINIMUM REINFORCEMENT SHALL BE 6" X 6" - W4.0 X W4.0 OR NO. 3 BARS SPACED 12" C-C IN BOTH DIRECTIONS.

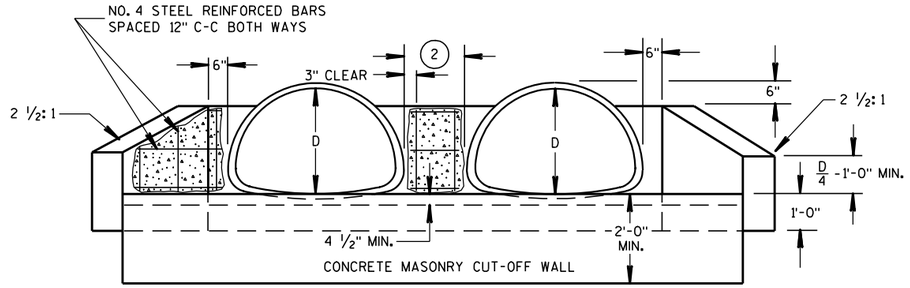
(2) THE SPACE BETWEEN PIPES SHALL BE AS FOLLOWS:

DIAMETER OR SPAN	SPACE
UP TO AND INCLUDING 48"	2'-0"
OVER 48" TO 72"	½ DIA. OR SPAN
OVER 72"	3'-0"



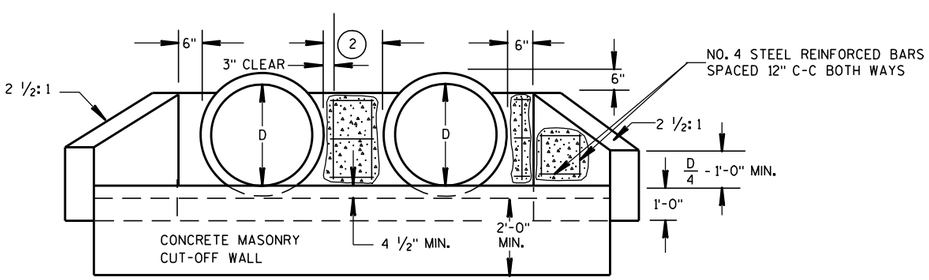
PLAN VIEW

CULVERT PIPE AND PIPE ARCH



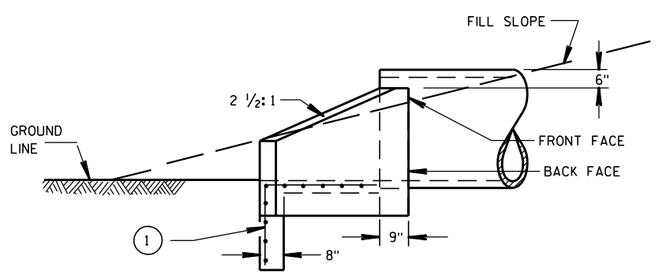
END ELEVATION

PIPE ARCH



END ELEVATION

CULVERT PIPE



SIDE ELEVATION

CULVERT PIPE AND PIPE ARCH

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

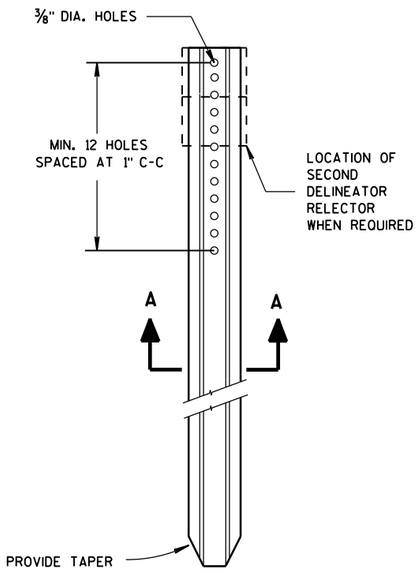
APPROVED
9/14/98 DATE
/S/ Rory L. Rhinehart
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

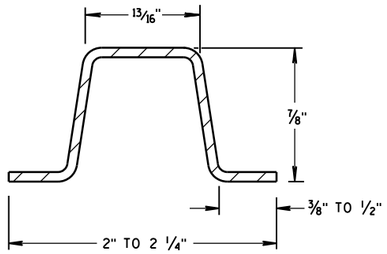
S.D.D. 8 F 10-1

6

S.D.D. 8 F 10-1

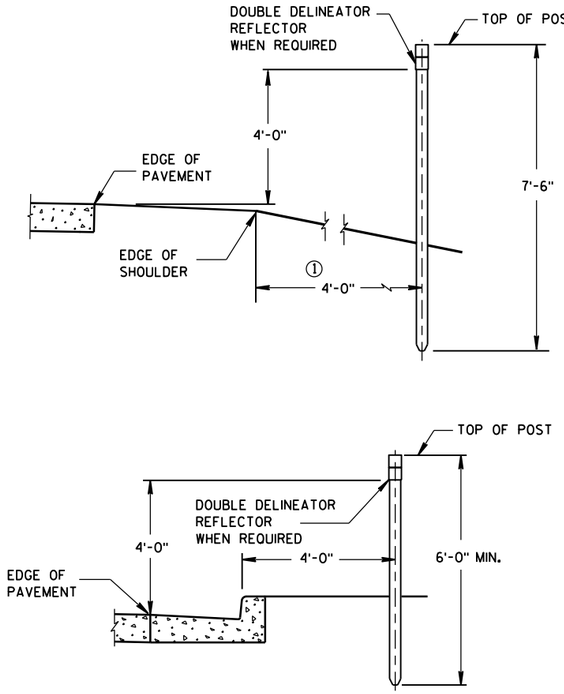


DELINEATOR POST



SECTION A-A

WEIGHT 1.12 LBS PER FT. ± 0.1 LB.

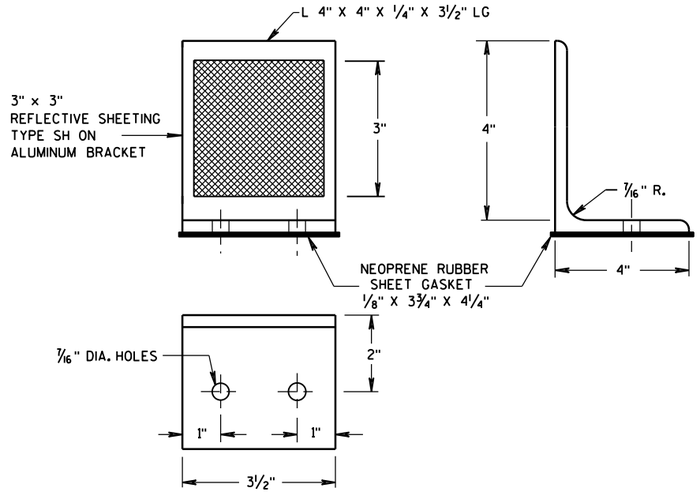


TYPICAL INSTALLATIONS OF DELINEATOR POSTS

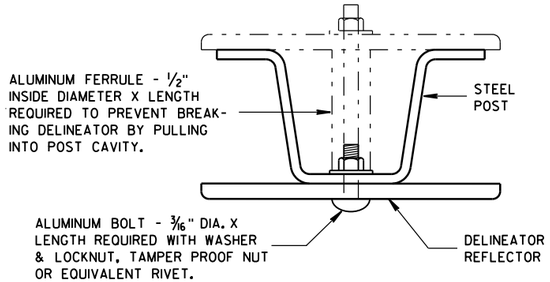
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

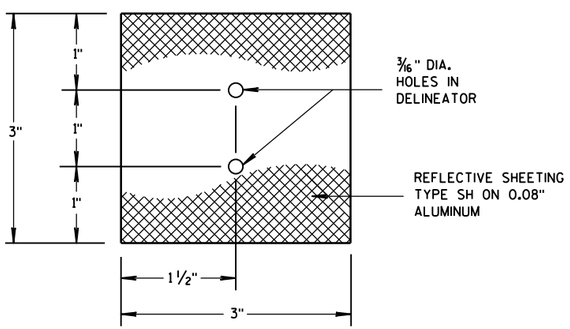
① DELINEATORS SHALL BE PLACED AT A CONSTANT DISTANCE FROM THE EDGE OF THE SHOULDER FOR THE LENGTH OF THE INSTALLATION.



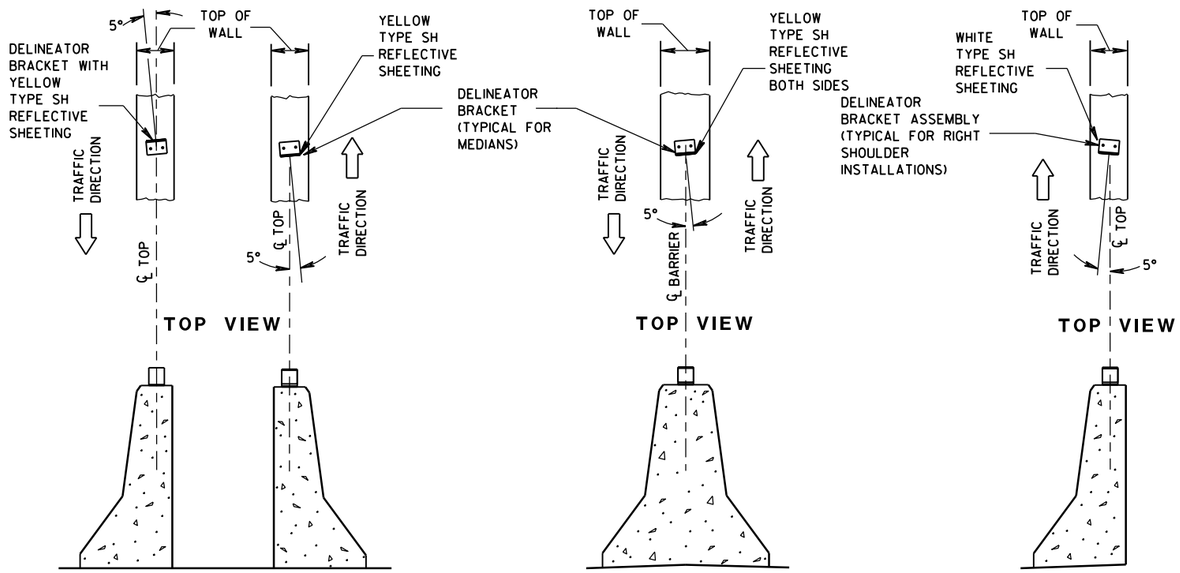
DELINEATOR BRACKET



MOUNTING DETAIL FOR DELINEATOR REFLECTOR

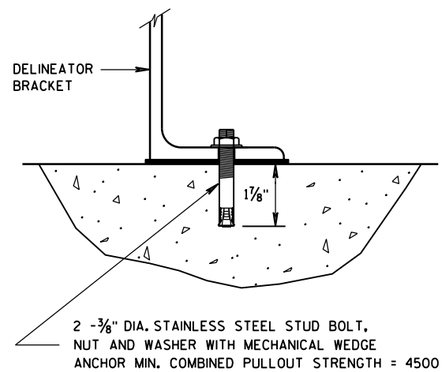


3"x 3" DELINEATOR REFLECTOR



DOUBLE BARRIERS IN MEDIAN | MEDIAN BARRIER | BARRIER LOCATED TO RT. OF TRAFFIC FLOW

LOCATION AND AIMING DETAILS FOR DELINEATOR BRACKETS MOUNTED ON CONCRETE BARRIERS



DELINEATOR BRACKET MOUNTING DETAIL

DELINEATOR POST, DELINEATOR REFLECTOR AND DELINEATOR BRACKET WITH REFLECTIVE SHEETING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

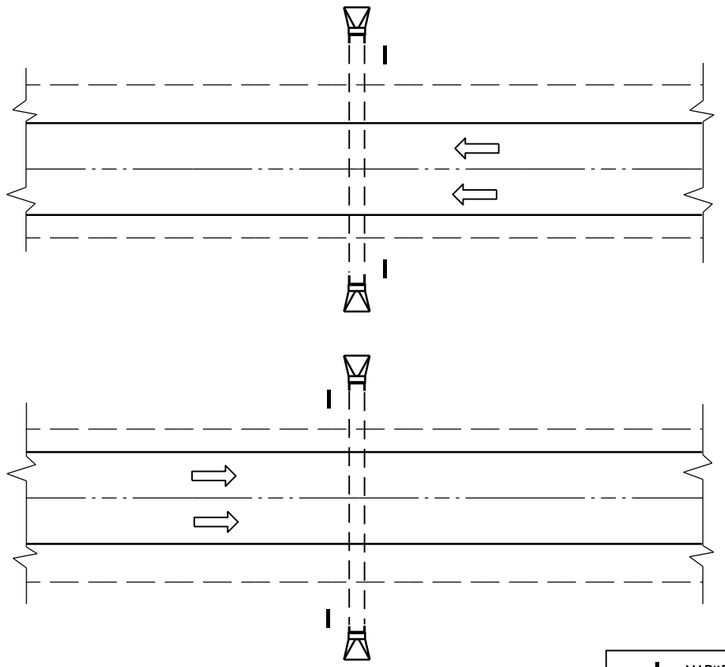
APPROVED
4-18-16 DATE
/S/ Matthew R. Rauch
STATE SIGNING AND MAR[illegible] GINEER
FHWA

6

S.D.D. 15 A 2-9

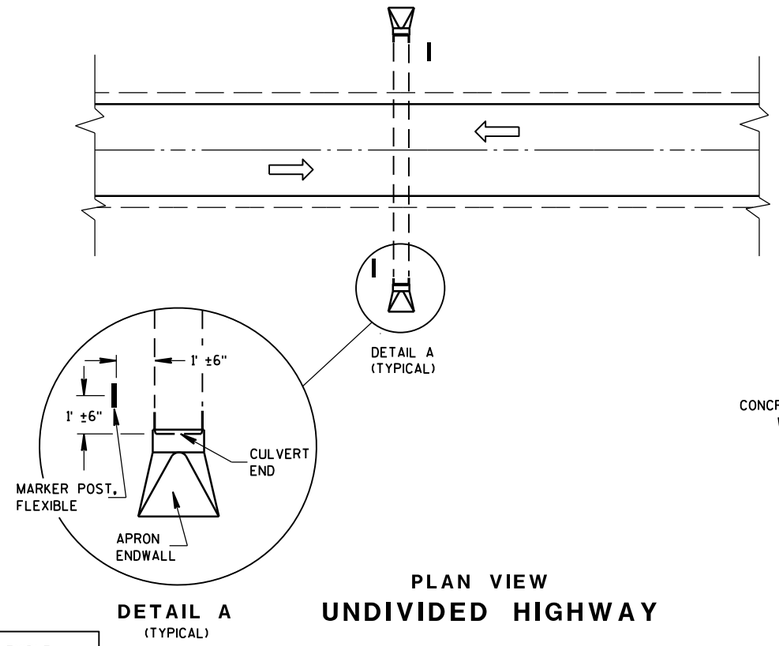
6

S.D.D. 15 A 2-9



PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

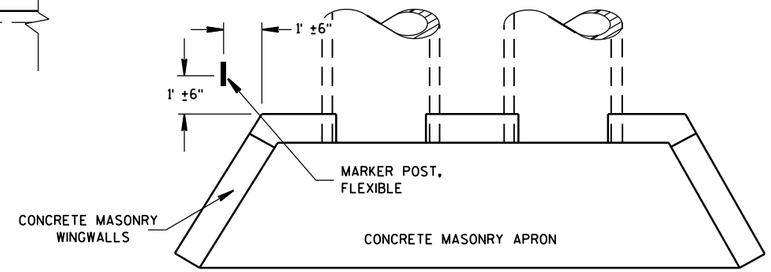
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

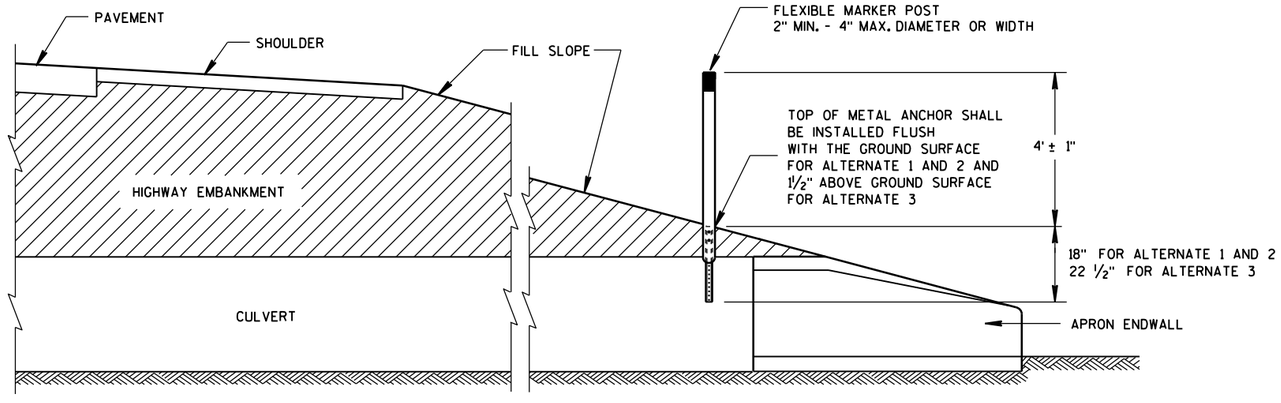
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



PLAN VIEW

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

FLEXIBLE MARKER POST LOCATION



CROSS SECTION

FLEXIBLE MARKER POST

FLEXIBLE MARKER POST FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 15 A 3-2a

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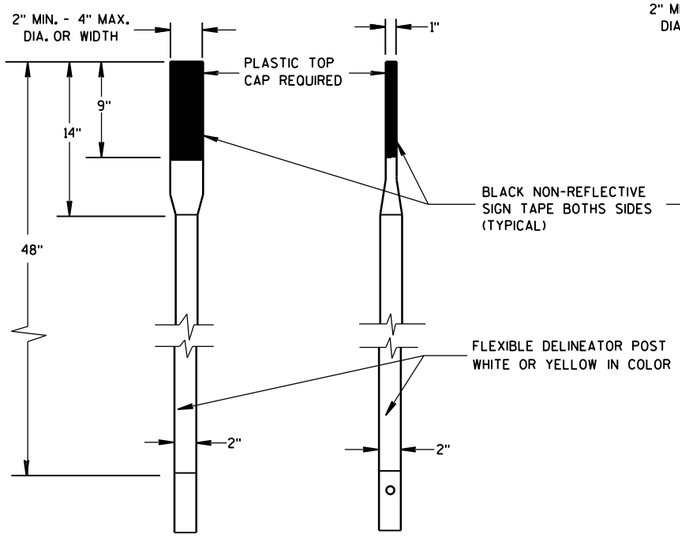
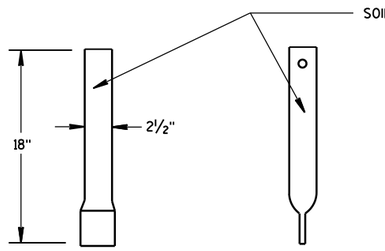
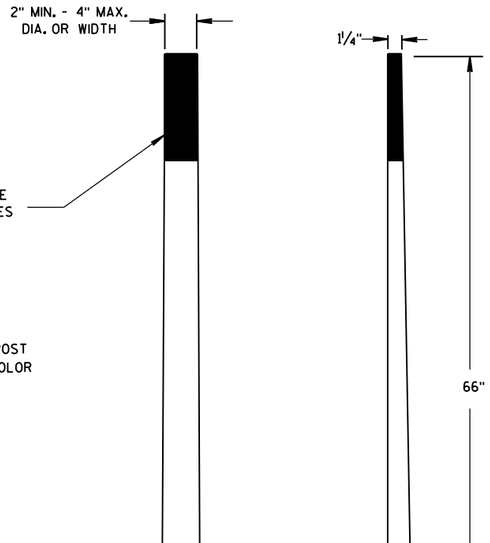
S.D.D. 15 A 3-2a





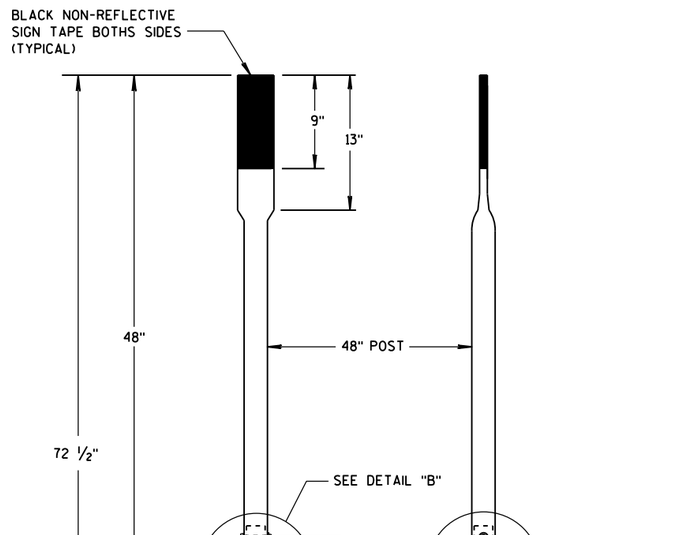
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

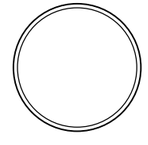
ALTERNATE 2



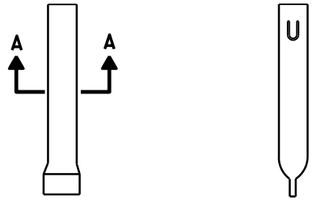
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POSTS

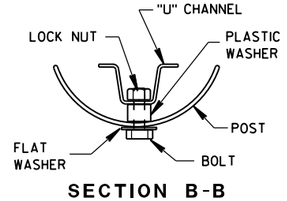


SECTION A-A

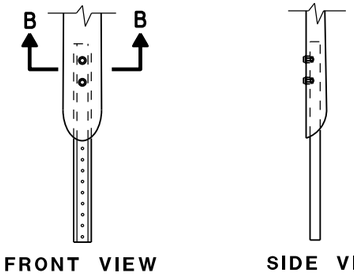


FRONT VIEW SIDE VIEW

ALTERNATE 1

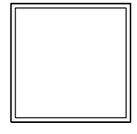


SECTION B-B

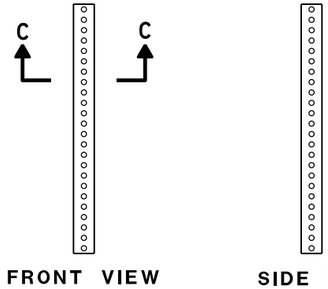


FRONT VIEW SIDE VIEW

ALTERNATE 2



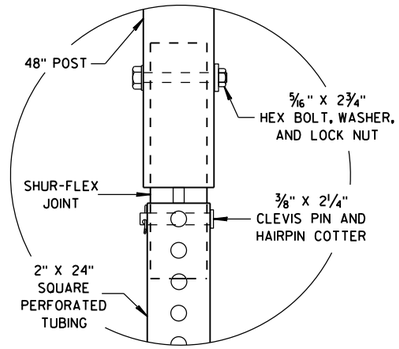
SECTION C-C



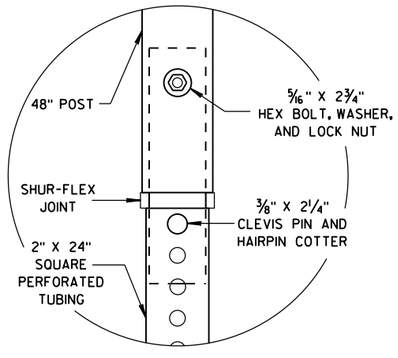
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POST ANCHORS



DETAIL B



DETAIL C

FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/1/2012
DATE
/S/ Travis Feltes
STATE TRAFFIC ENGINEER
FHWA

6

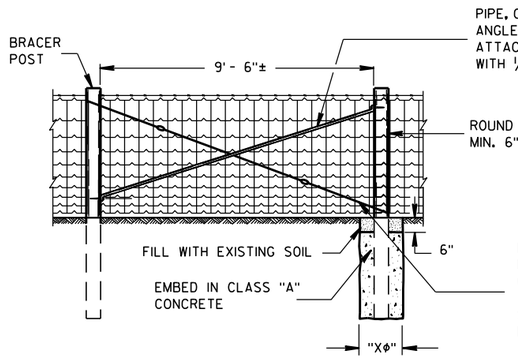
S.D.D. 15 A 3-2b

6

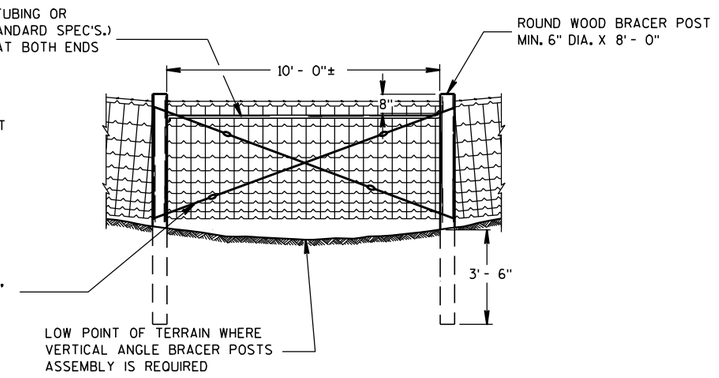
S.D.D. 15 A 3-2b

NOTE: PULL OR STRETCHER POST ASSEMBLIES SHALL BE PLACED MIDWAY BETWEEN END POSTS AND CORNER POSTS WHERE A RUN OF FENCE EXCEEDS 660' BUT IS LESS THAN 1,320'. FOR RUNS OF FENCE IN EXCESS OF 1,320' MAXIMUM SPACING OF PULL OR STRETCHER POST ASSEMBLIES SHALL BE 660'± C-C.

ILLUSTRATION SHOWS POSITION OF STANDARD STEEL BRACE, DOUBLE STRAND GALVANIZED WIRE, AND THE POST TO BE EMBEDDED IN CONCRETE WHEN WIRE FENCE IS INSTALLED FROM LEFT TO RIGHT. THE BRACES SHALL BE POSITIONED ON THE OPPOSITE DIAGONALS AND THE OPPOSITE POST SHALL BE EMBEDDED IN CONCRETE WHEN WIRE FENCE IS INSTALLED FROM RIGHT TO LEFT.



PULL OR STRETCHER POSTS ASSEMBLY



VERTICAL ANGLE BRACER POSTS ASSEMBLY

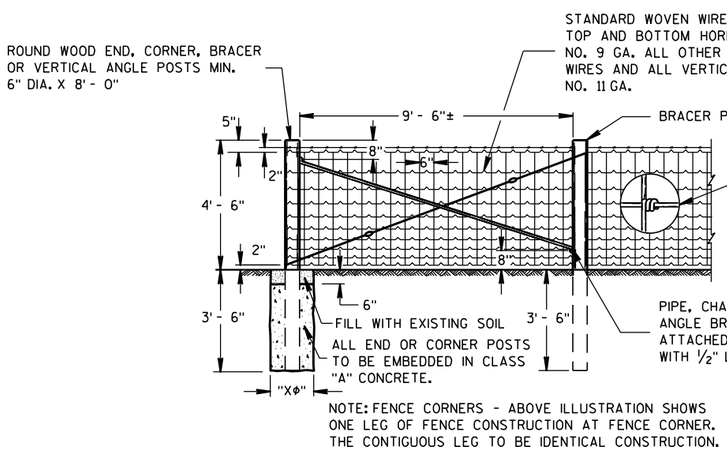
GENERAL NOTES

"XΦ" = DIAMETER OF THE POST PLUS 12".

FENCE STAPLES SHOULD NEVER BE DRIVEN VERTICALLY INTO WOOD POSTS (WITH BOTH LEGS PARALLEL WITH THE WOOD GRAIN). DOING SO CAN SEPARATE THE GRAIN AND SIGNIFICANTLY REDUCE THE HOLDING POWER. ROTATING THE STAPLES SLIGHTLY OFF VERTICAL STRADDLES THE GRAIN AND PROVIDES MORE RESISTANCE TO PULL-OUT.

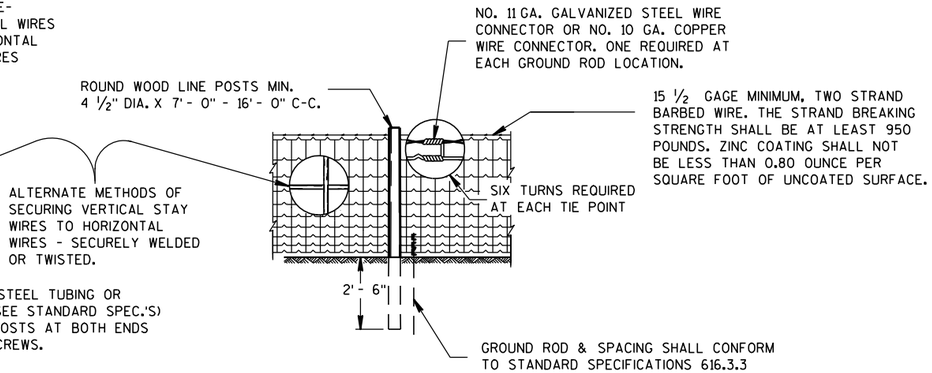
DO NOT STAPLE WIRE TIGHT TO THE LINE POSTS. ALLOW MOVEMENT OF WIRE FOR EXPANSION AND CONTRACTION. STAPLE ARRANGEMENT SHALL BE THE SAME FOR ALL OTHER POSTS EXCEPT THAT THEY SHALL BE DRIVEN TIGHT TO POSTS. ALL STAPLES SHALL BE 2" X 9 GAGE AND SHALL BE MANUFACTURED FROM GALVANIZED WIRE OR HOT DIP GALVANIZED AFTER FORMING. STAPLES SHALL HAVE SLASH-CUT POINTS.

FENCE SHALL BE LOCATED 3'-0" INSIDE THE RIGHT OF WAY LINE UNLESS OTHERWISE INDICATED ON THE PLANS.



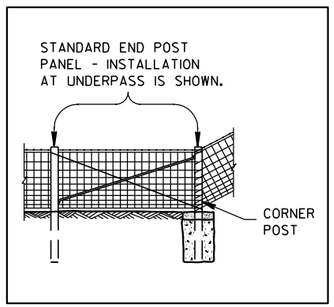
NOTE: FENCE CORNERS - ABOVE ILLUSTRATION SHOWS ONE LEG OF FENCE CONSTRUCTION AT FENCE CORNER. THE CONTIGUOUS LEG TO BE IDENTICAL CONSTRUCTION.

END OR CORNER POSTS ASSEMBLY

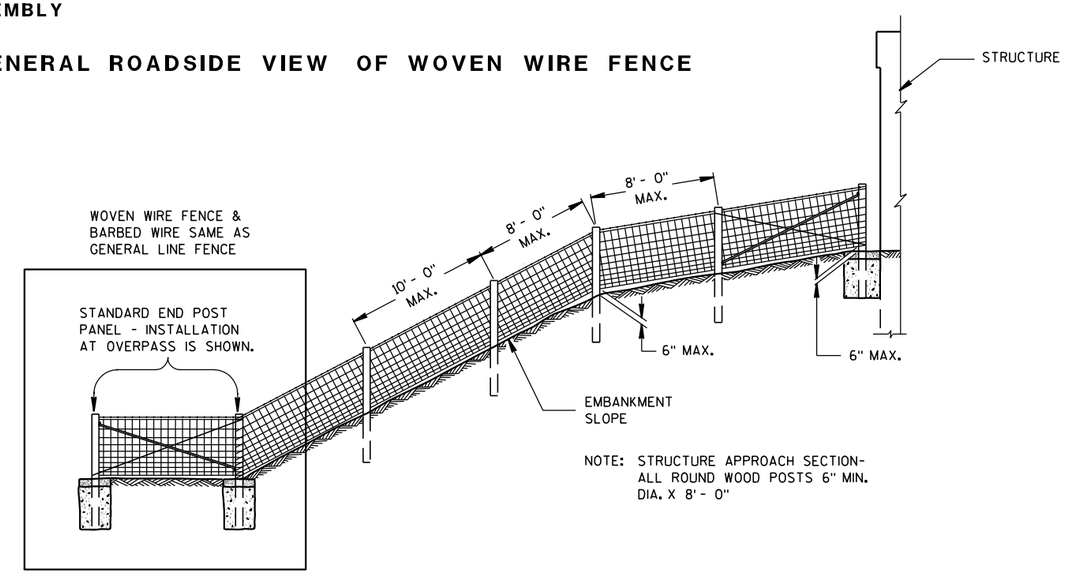


LINE FENCE CONSTRUCTION

GENERAL ROADSIDE VIEW OF WOVEN WIRE FENCE



ALTERNATE FENCE DESIGN AT STRUCTURE



NOTE: STRUCTURE APPROACH SECTION- ALL ROUND WOOD POSTS 6" MIN. DIA. X 8' - 0"

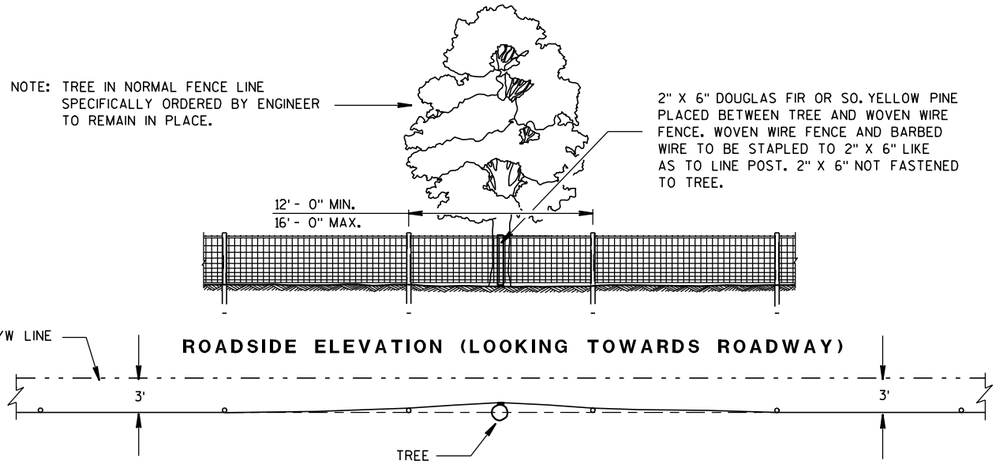
FENCE DESIGN AT STRUCTURE APPROACH

FENCE WOVEN WIRE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

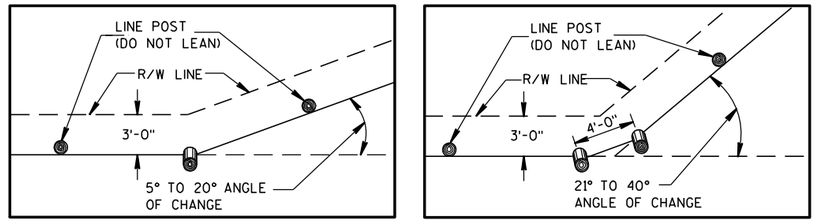
6

S.D.D. 15 B 1-8a



PLAN VIEW

FENCE DESIGN AT TREES REMAINING IN NORMAL FENCE LINE



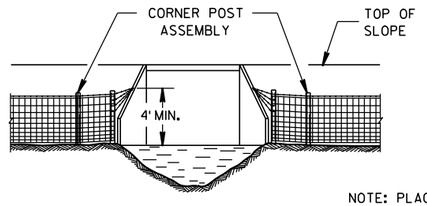
PLAN VIEW
SINGLE POST CORNER

PLAN VIEW
DOUBLE POST CORNER

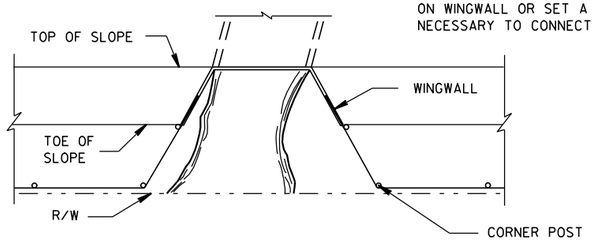
RIGHT OF WAY LINE CHANGE 40° AND LESS

NOTE: SINGLE AND DOUBLE POSTS SHALL BE A MIN. 6" DIA. X 8'-0" WITH A LEAN OF 4" TOWARD THE OUTSIDE OF THE CURVE.

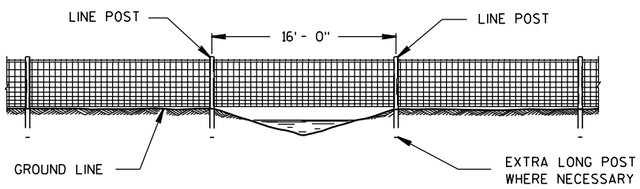
WHEN THE RIGHT OF WAY LINE CHANGE IS MORE THAN 40° USE THE CORNER OR STRETCHER POSTS ASSEMBLY.



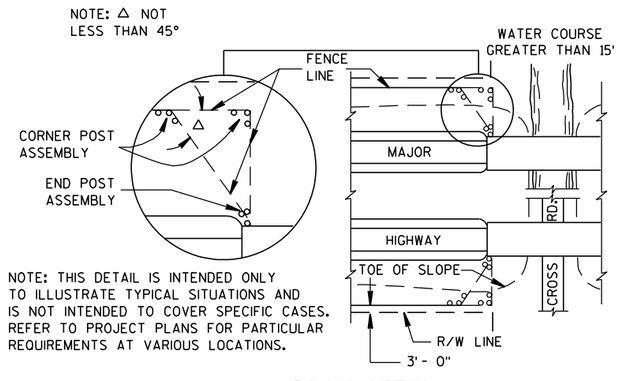
NOTE: PLACE A MINIMUM OF 4 STRANDS OF BARBED WIRE, 6" MAXIMUM CENTERS IN FAN SHAPE CONNECTED TO AN EYE BOLT ON WINGWALL OR SET A LONE POST WHEN NECESSARY TO CONNECT BARBED WIRE.



FENCE INSTALLATION TO WINGWALLS

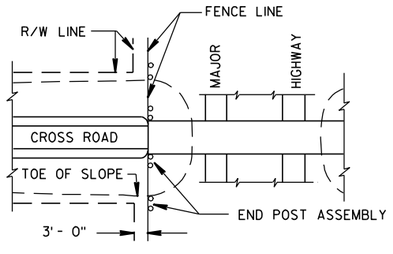


FENCE CONSTRUCTION OVER STREAM COURSES OF 15 FT. OR LESS IN WIDTH



PLAN VIEW

MAJOR HIGHWAY OVERPASS OR STREAM COURSE CROSSING OF GREATER THAN 15 FT. IN WIDTH

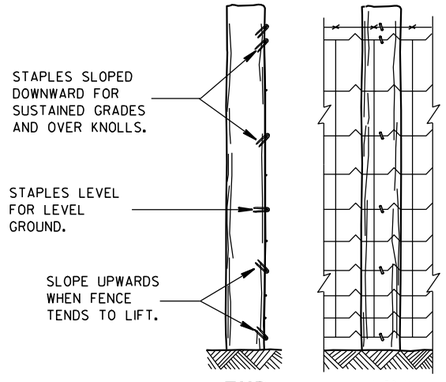


PLAN VIEW

MAJOR HIGHWAY UNDERPASS

FENCE LOCATION AT STRUCTURES

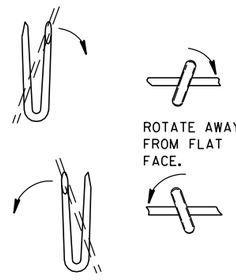
NOTE: WHEN POSTS ARE DRIVEN THE SMALL END SHALL BE DOWN.



END ELEVATION

FARM SIDE ELEVATION

FENCE MOUNTING DETAIL



LINE POST

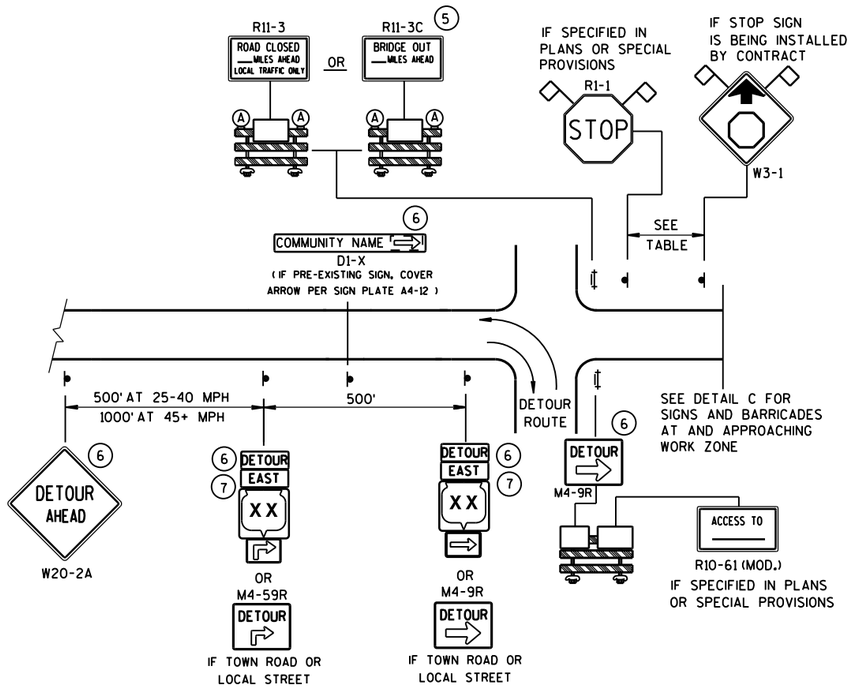
FENCE WOVEN WIRE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4/4/2008
DATE
/S/ Jerry H. [illegible]
ROADWAY STANDARDS [illegible]
ENGINEER
FHWA

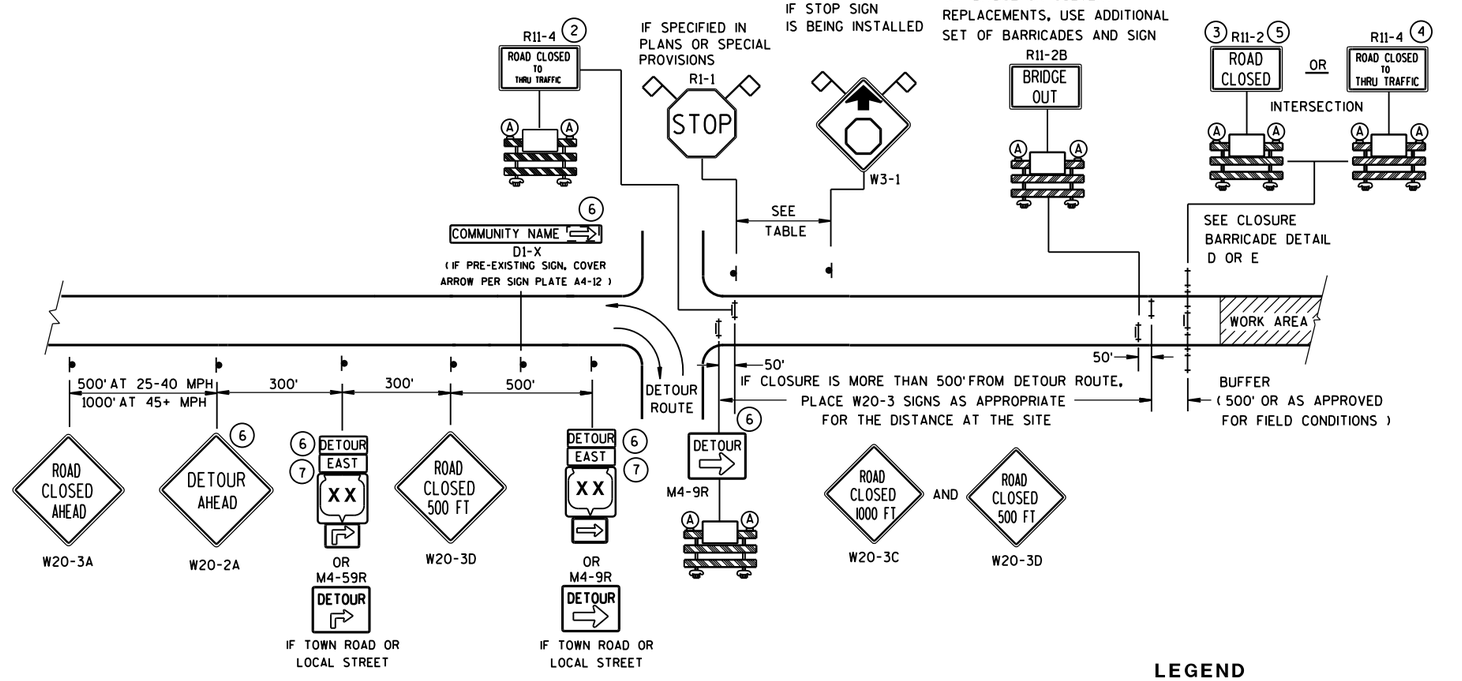
6

S.D.D. 15 B 1-8b



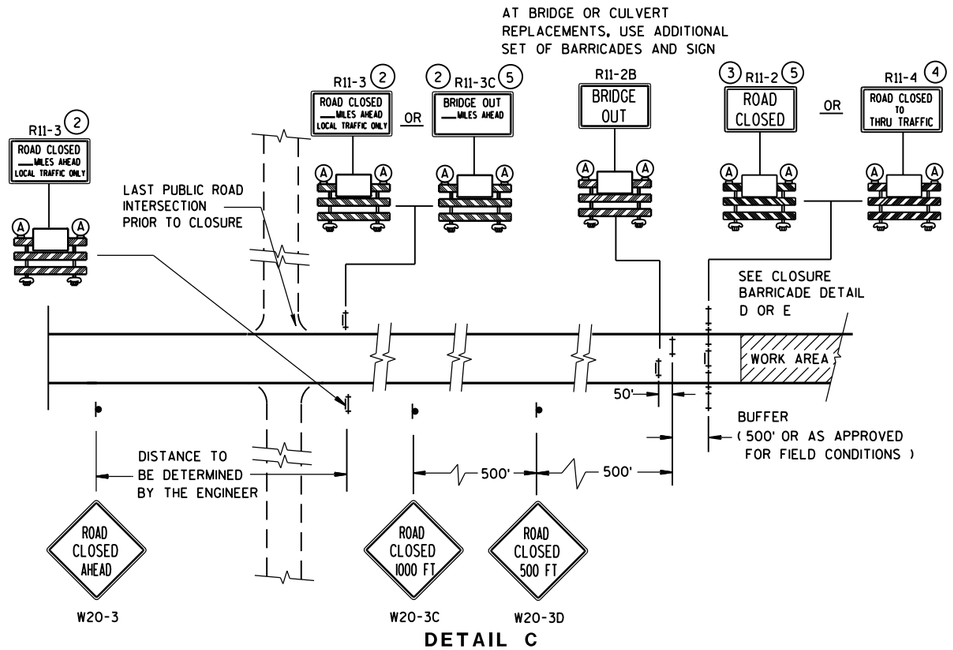
DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE GREATER THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE LESS THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR

SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (FT)
25	200
30	200
35	350
40	350
45	500
50	550
55	750

SEE SDD 15C2-SHEET "**b**"
FOR GENERAL NOTES
AND FOOTNOTES (1) THROUGH (7)

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA
- DETOUR / EAST — M4-8 / M3-X
- XX — M1-4; COUNTY XX — M1-5A; XX — M1-6
- M05-1 OR M06-1
- FLAGS, 16" X 16" MIN., (ORANGE)

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

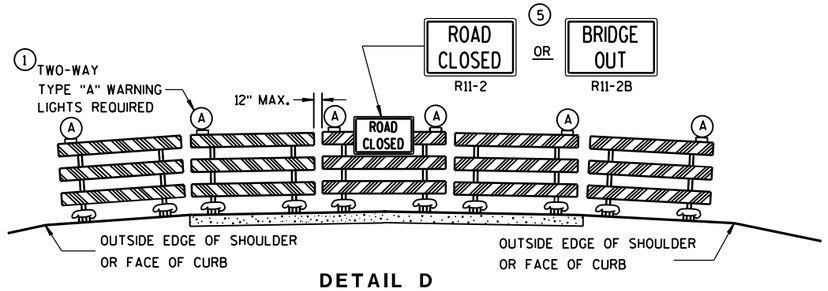
Sept. 2015 — DATE
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER
FHWA

6

S.D.D. 15 C 2-6a

6

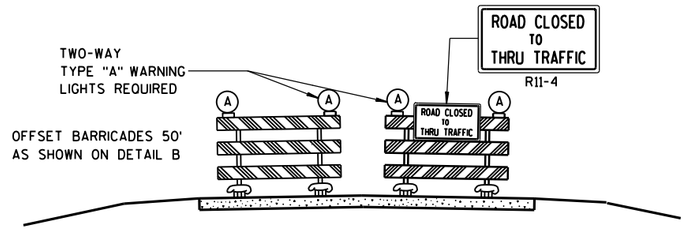
S.D.D. 15 C 2-6a



DETAIL D

ROAD CLOSURE BARRICADE DETAIL

APPROACH VIEW



DETAIL E

LANE CLOSURE BARRICADE DETAIL

APPROACH VIEW

SEE SDD 15C2-SHEET "**a**" FOR LEGEND

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL D FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3, M4-9, R11-4 AND R10-61 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

"WO AND "MO" SIGNS ARE THE SAME AS "W" AND "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
- R11-2 SHALL BE 48" X 30".
- R11-3, R11-4 AND R10-61 SHALL BE 60" X 30".
- M4-9 SHALL BE 30" X 24".
- M3-X SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS.)
- M4-8 SHALL BE 24" X 12". (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS.)
- M1-4, M1-5A, AND M1-6 SHALL BE 24" X 24". (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS.)
- M05-1 AND M06-1 SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS.)
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1-1 SHALL BE 36" X 36".

(1) TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8-FOOT LIGHT SPACING).

(2) THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT INTERSECTION.

(3) FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL D.

(4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE LANE CLOSURE BARRICADE DETAIL E.

(5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11-2 AND R11-3 SIGNS.

(6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.

(7) "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

Sept. 2015 — DATE
/S/ Peter Amakobe Atepe — STATEWIDE WORK ZO SAFETY ENGI FIC
FHWA

6

S.D.D. 15 C 2-6b

THIS DRAWING PROVIDES GENERAL GUIDANCE ON TYPICAL DETOUR SIGN LAYOUT AND SPACING. SEE PROJECT DETOUR SIGNING SHEETS FOR SPECIFIC DETAILS FOR EACH PROJECT.

GENERAL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.

THE SPACING BETWEEN TRAFFIC CONTROL AND DETOUR SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE", SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

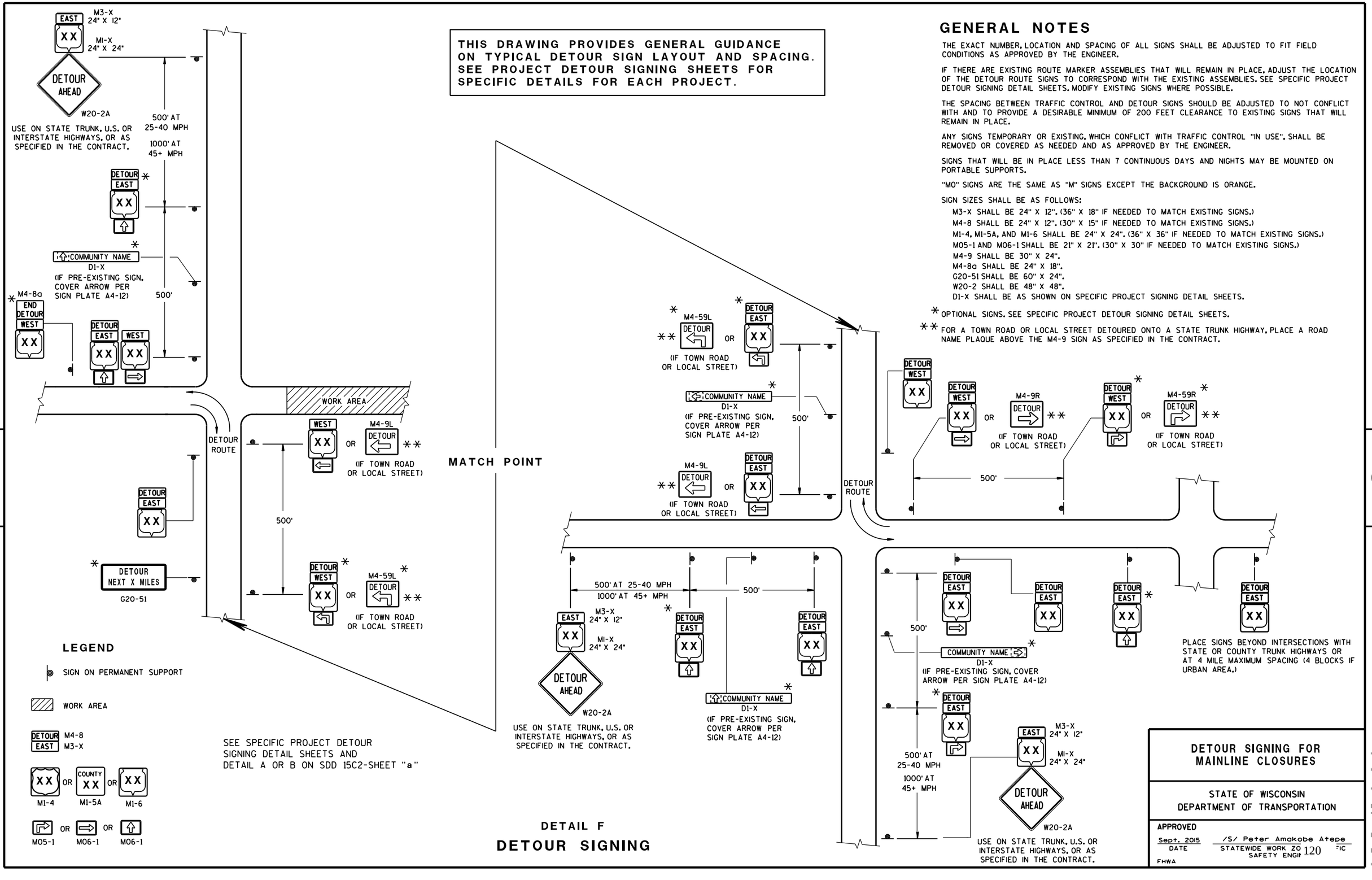
"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGN SIZES SHALL BE AS FOLLOWS:

- M3-X SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS.)
- M4-8 SHALL BE 24" X 12". (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS.)
- M1-4, M1-5A, AND M1-6 SHALL BE 24" X 24". (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS.)
- MO5-1 AND MO6-1 SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS.)
- M4-9 SHALL BE 30" X 24".
- M4-8a SHALL BE 24" X 18".
- G20-51 SHALL BE 60" X 24".
- W20-2 SHALL BE 48" X 48".
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

* OPTIONAL SIGNS. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS.

** FOR A TOWN ROAD OR LOCAL STREET DETOURED ONTO A STATE TRUNK HIGHWAY, PLACE A ROAD NAME PLAQUE ABOVE THE M4-9 SIGN AS SPECIFIED IN THE CONTRACT.



DETAIL F

DETOUR SIGNING

DETOUR SIGNING FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

Sept. 2015 — DATE

/S/ Peter Amakobe Atepe — STATEWIDE WORK ZO SAFETY ENGI

FHWA

S.D.D. 15 C 2-6c

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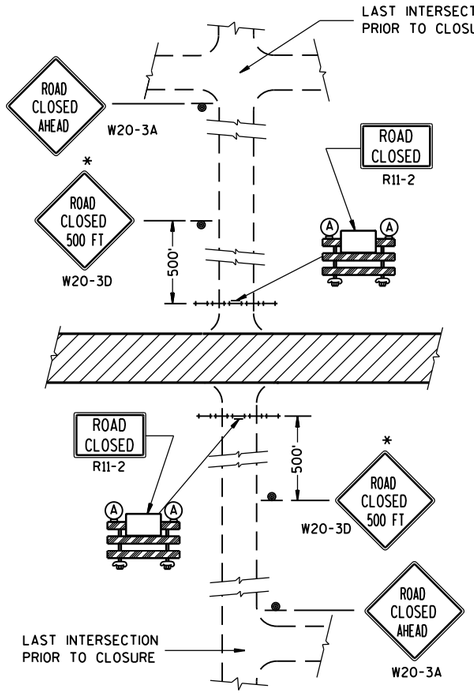
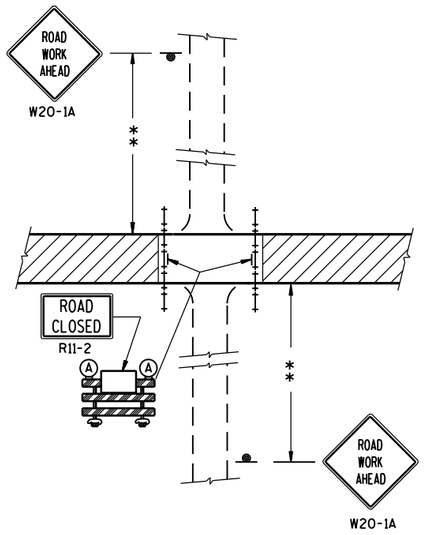


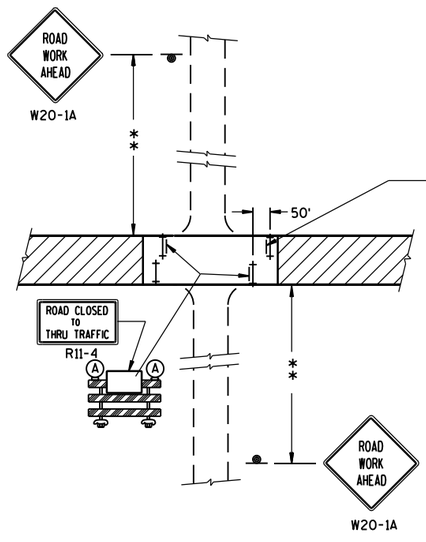
DETAIL 1

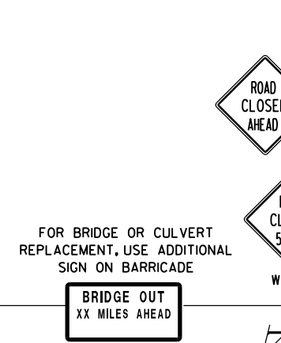
(NO ACCESS TO PROJECT)



DETAIL 2

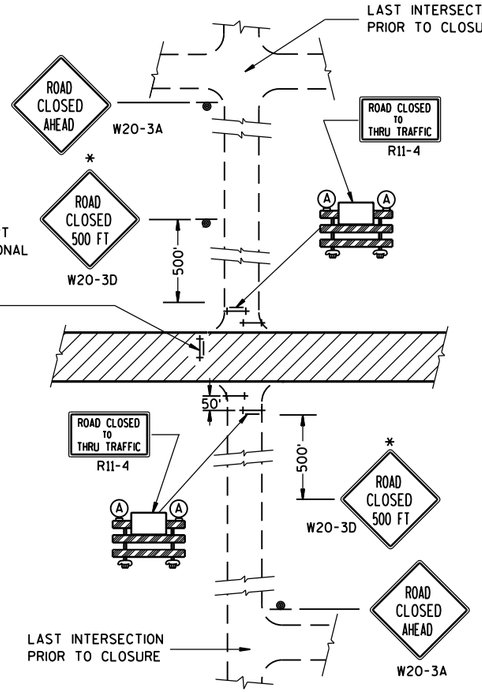
(PUBLIC CROSS-TRAFFIC MAINTAINED. NO ACCESS TO PROJECT).





DETAIL 3

(PUBLIC CROSS-TRAFFIC MAINTAINED. CONTRACTOR, LOCAL BUSINESS AND RESIDENT ACCESS).



DETAIL 4

(CONTRACTOR, LOCAL BUSINESS AND RESIDENT ACCESS TO PROJECT)

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL D FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3 AND R11-4 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
R11-2 SHALL BE 48" X 30".
R11-4 AND R11-3 SHALL BE 60" X 30".

*OMIT THE "ROAD CLOSED 500 FT." SIGN IF THE LAST INTERSECTION IS 500 FT. OR LESS FROM THE WORK ZONE.

**500' MAX. OR AT LAST INTERSECTION WHICHEVER IS CLOSER.

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

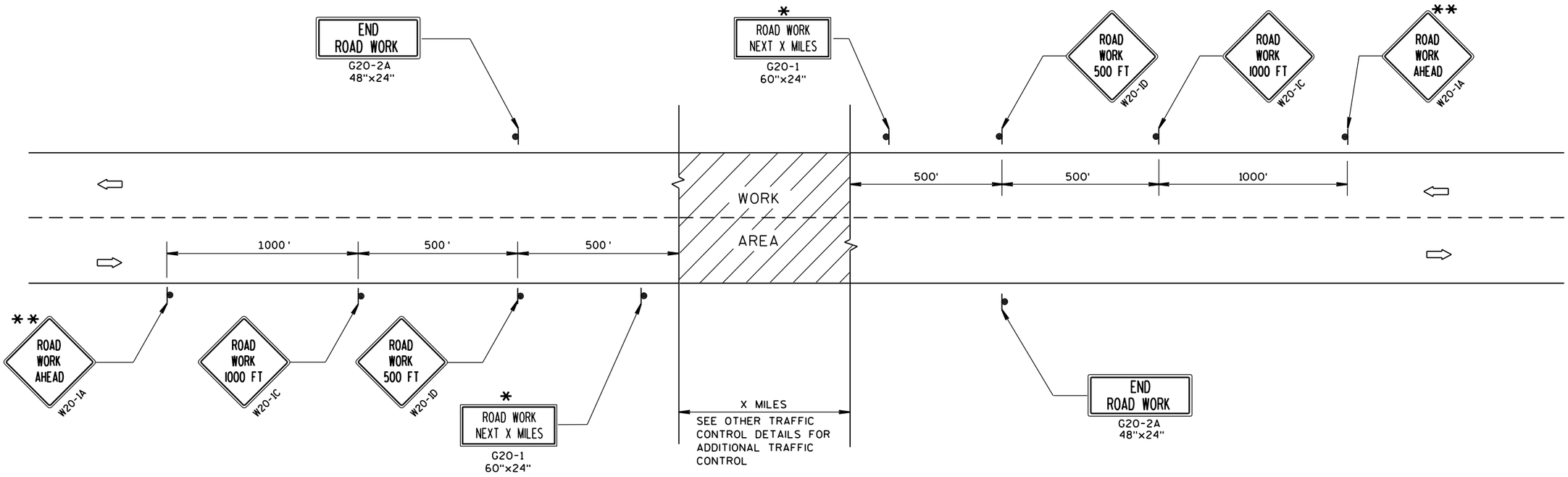
APPROVED
Sept. 2015 — DATE
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZO[illegible]FIC SAFETY ENGI[illegible]
FHWA

6

S.D.D. 15 C 3-3

6

S.D.D. 15 C 3-3



TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

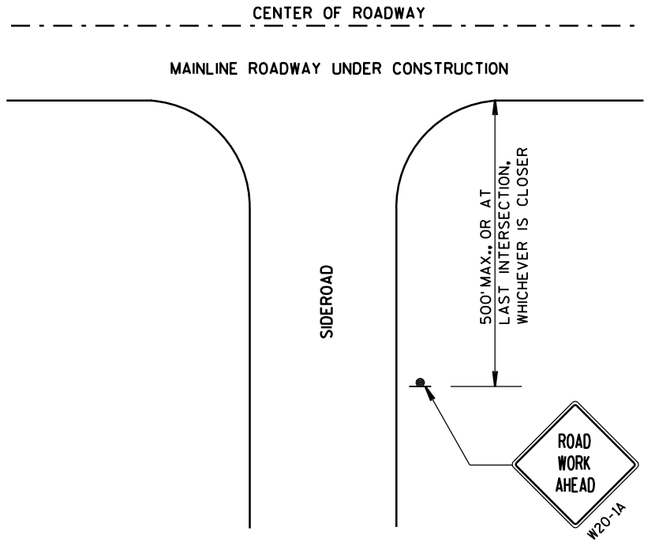
ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

* OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

** PLACE ADDITIONAL W20-1A "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.



LEGEND

- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

Sept. 2015 — DATE

/S/ Peter Amakobe Atepe — STATEWIDE WORK ZONE SAFETY ENGINEER

FHWA

6

S.D.D. 15 C 4-3

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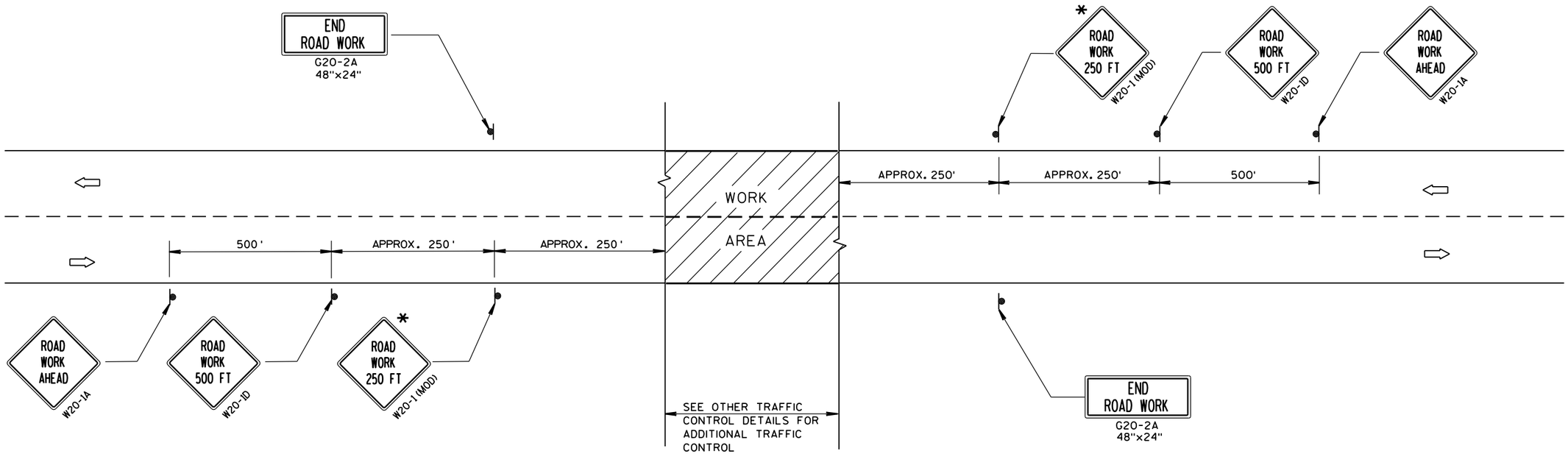
S.D.D. 15 C 4-3

TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL



GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

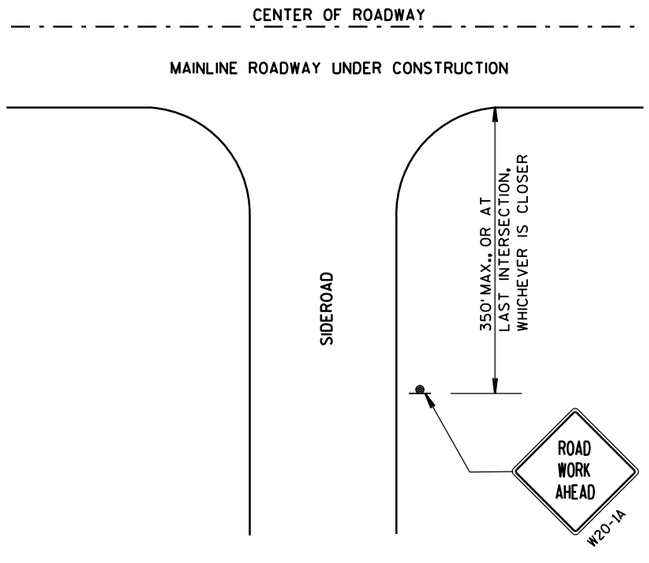
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"x36" SIGNS MAY BE USED INSTEAD OF 48"x48" SIGNS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

* THE THIRD W20-1 SIGN IS REQUIRED ONLY IF THERE IS AN INTERSECTION BETWEEN THE "ROAD WORK 500 FT" SIGN AND THE WORK ZONE. ADJUST THE PLACEMENT OF THIS SIGN BASED ON INTERSECTION LOCATION AND OTHER FIELD CONDITIONS.



LEGEND

- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2015 — DATE
/S/ Peter Amakobe Atepe — STATEWIDE WORK ZOI SAFETY ENGIN — IC
FHWA

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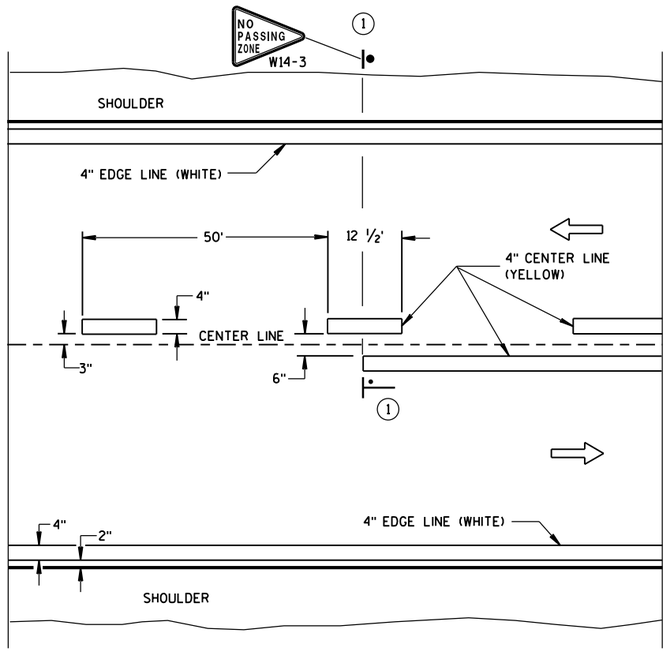
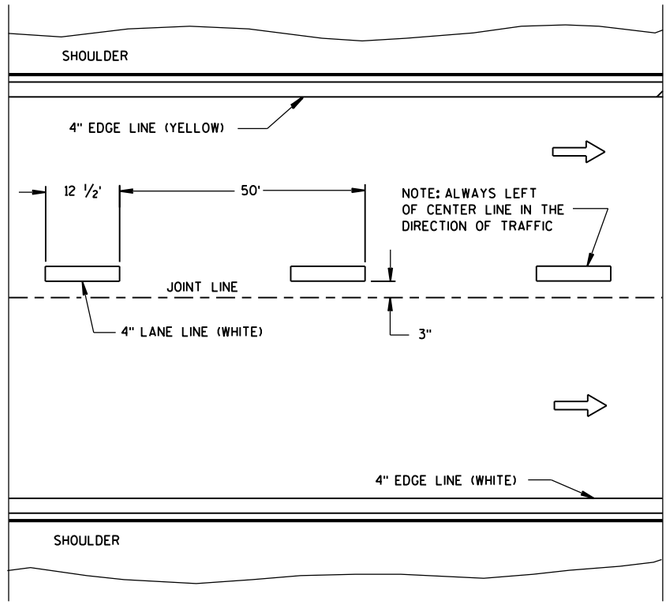
S.D.D. 15 C 5-3



TWO WAY TRAFFIC



ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

(1) NO PASSING ZONE W14-3 SIGN SHALL BE LOCATED WITHIN 50 FEET OF THE "T" MARKING.

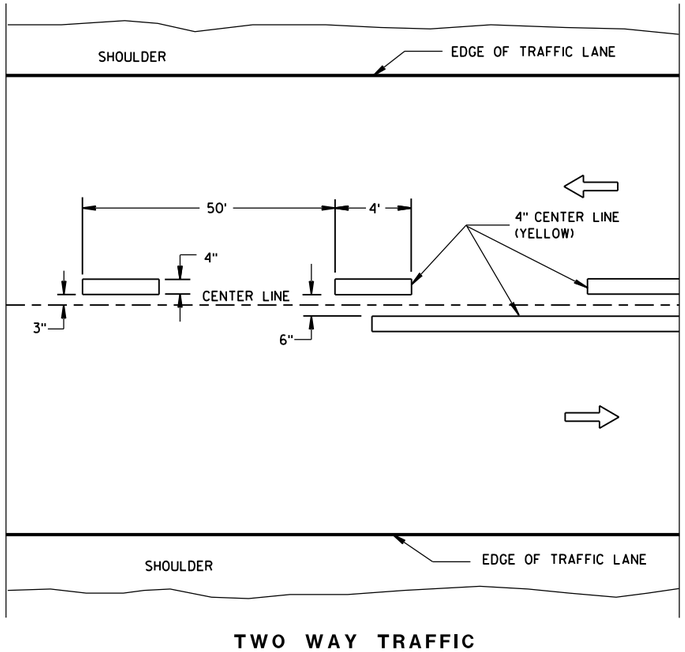
NOTE

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

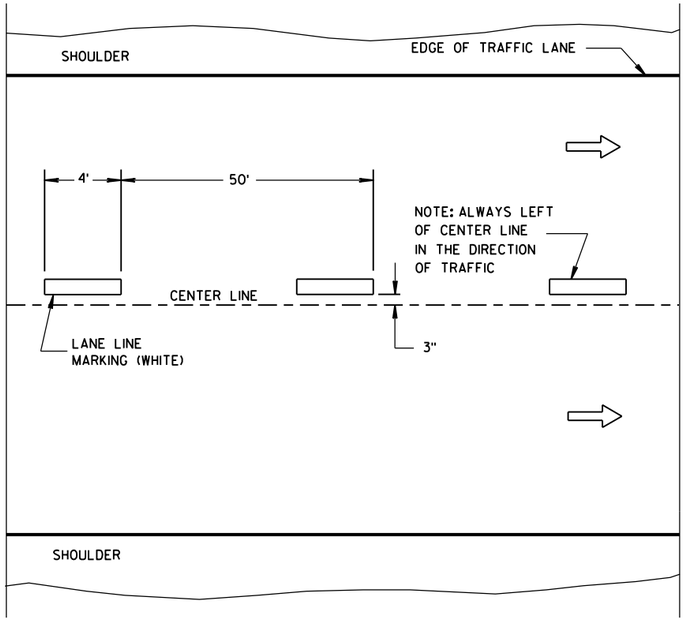
LEGEND

"T" MARKING

POST MOUNTED SIGN



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY PAVEMENT MARKING

LONGITUDINAL MARKING (MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2016 — DATE
/S/ Matthew R. Rauch — STATE SIGNING AND MAR[illegible]INEER
FHWA

S.D.D. 15 C 8-17a

S.D.D. 15 C 8-17a

6

6

LEGEND

SIGN ON PORTABLE OR PERMANENT SUPPORT

DIRECTION OF TRAFFIC

WORK AREA

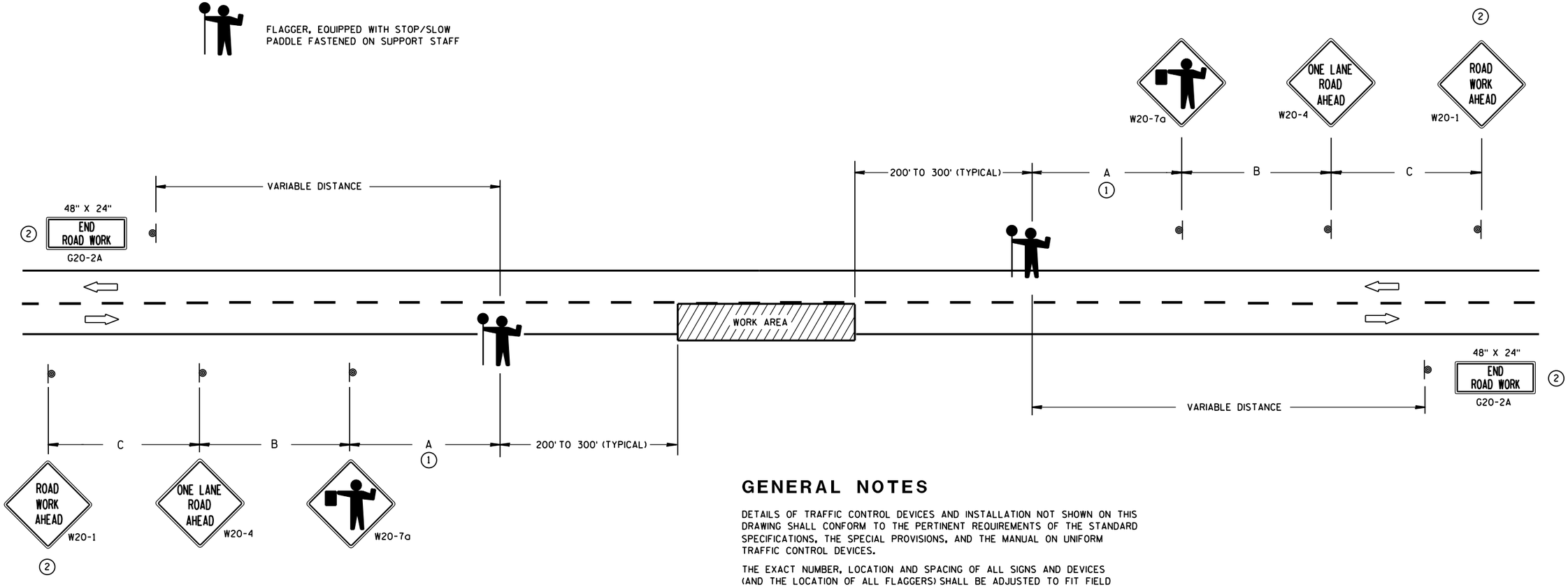
FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

SIGN SPACING TABLE

SPEED LIMIT	SIGN SPACING A,B,C
25-35 MPH	200'
35-40 MPH	350'
45-55 MPH	500'

W3-4

USE OF THE "BE PREPARED TO STOP" SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7a AND W20-4 SIGNS. A 500' TYPICAL SPACING SHALL BE PROVIDED BETWEEN THE SIGNS.



(1) FOR A MOVING WORK OPERATION,
SIGNING FOR BOTH DIRECTIONS SHALL BE REESTABLISHED (AS SIMULTANEOUSLY AS PRACTICAL) AT APPROXIMATELY 3500 FOOT INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.

(2) SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES (AND THE LOCATION OF ALL FLAGGERS) SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT, COVER OR REMOVE ALL TEMPORARY TRAFFIC CONTROL SIGNS.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
8/2013
DATE
/S/ Travis Feltes
STATE TRAFFIC ENGINEER
FHWA

6

S.D.D. 15 C 12-4

6

S.D.D. 15 C 12-4

LEGEND

SIGN ON PORTABLE OR PERMANENT SUPPORT

DIRECTION OF TRAFFIC

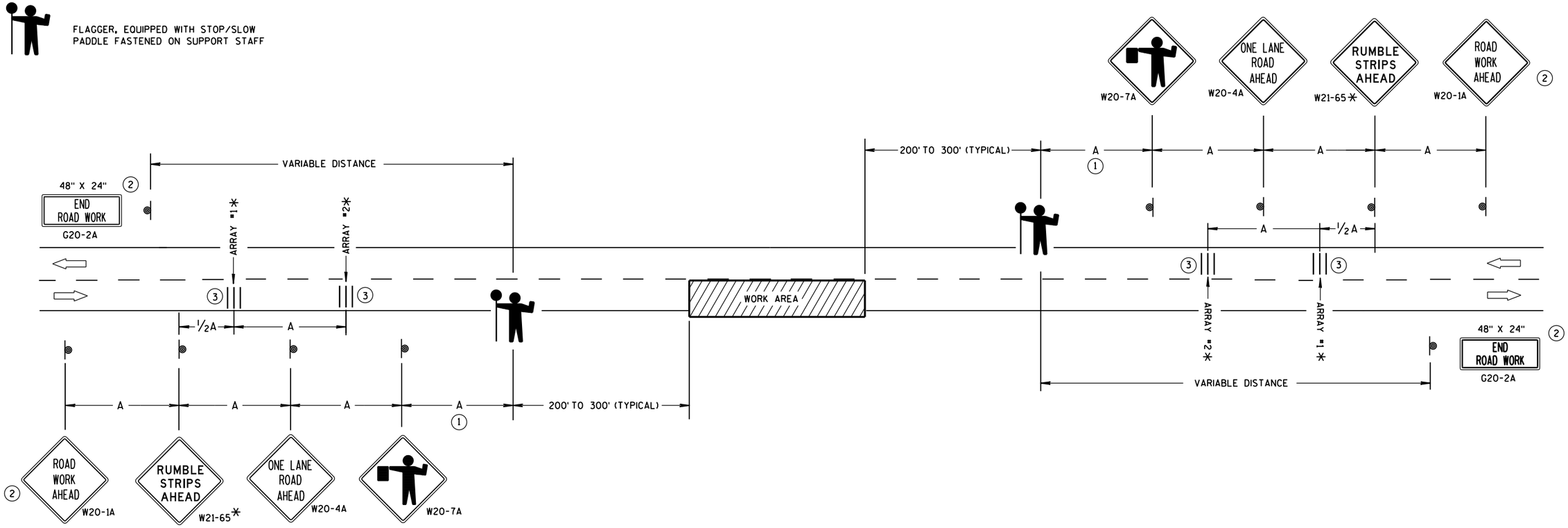
WORK AREA

FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

SPEED LIMIT	SPACING A
25-35 MPH	200'
35-40 MPH	350'
45-55 MPH	500'

USE OF THE "BE PREPARED TO STOP" SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7A AND W20-4A SIGNS, USING SPACING A.



TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES (AND THE LOCATION OF ALL FLAGGERS) SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS.

PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT, REMOVE TEMPORARY RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.

* UTILIZE TEMPORARY RUMBLE STRIPS WHEN FLAGGING OPERATION IS ANTICIPATED TO BE STATIONARY IN EXCESS OF TWO HOURS.

(1) FOR A MOVING WORK OPERATION, SIGNING AND TEMPORARY RUMBLE STRIPS (IF USED) SHALL BE REESTABLISHED (AS SIMULTANEOUSLY AS PRACTICAL) AT APPROXIMATELY 3,500 FOOT INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.

(2) SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

(3) EACH TEMPORARY RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS SPACED ACCORDING TO MANUFACTURER'S RECOMMENDATION, PLACED TRANSVERSE ACROSS THE LANE AT LOCATIONS SHOWN.

TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
December, 2016 — /S/ Andrew Heldtke
DATE — WORK ZONE ENG
FHWA

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S.D.D. 15 C 12-5

6

S.D.D. 15 C 12-5

LEGEND

- TRAFFIC CONTROL DRUM
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- FLASHING ARROW BOARD
- WORK AREA

GENERAL NOTES

THIS DETAIL IS TYPICAL FOR CLOSING THE RIGHT SHOULDER. FOR CLOSING THE LEFT SHOULDER, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR DIVIDED ROADWAYS WITH ANY NUMBER OF TRAVEL LANES.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

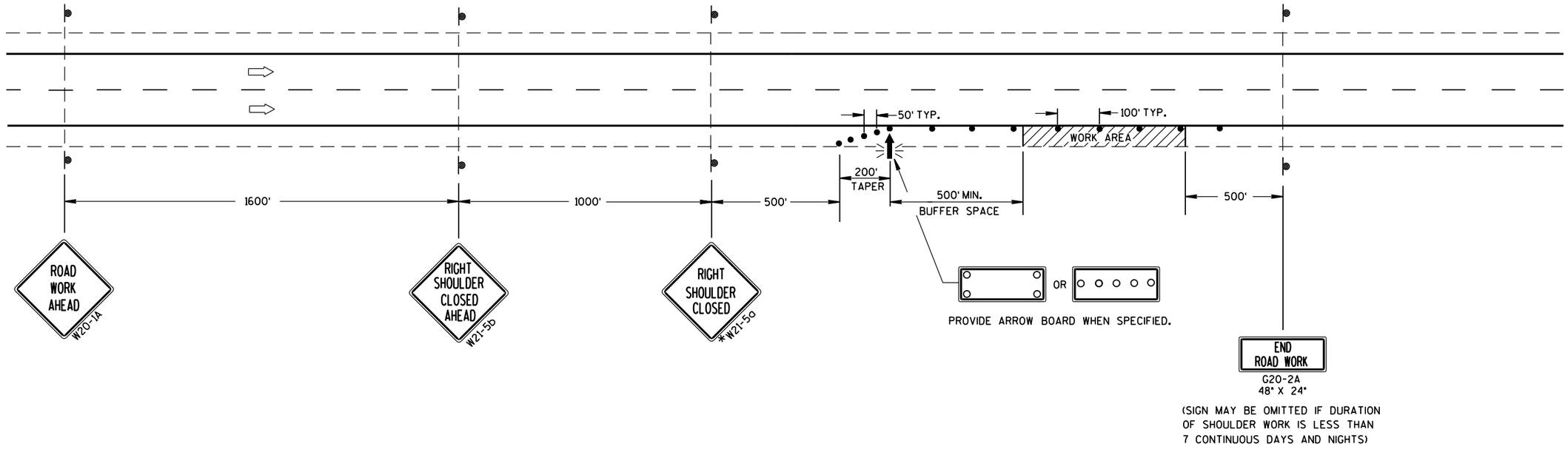
SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

CHANNELIZING DEVICES PLACED ADJACENT TO THE WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

*FOR SHORT DURATION SHOULDER WORK OF LESS THAN ONE HOUR, THE W21-5a SIGN MAY BE OMITTED.



TRAFFIC CONTROL SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June 2016 — DATE

/S/ Peter Amakobe Atepe
STATEWIDE WORK ZO[illegible] SAFETY ENGI[illegible]

FHWA

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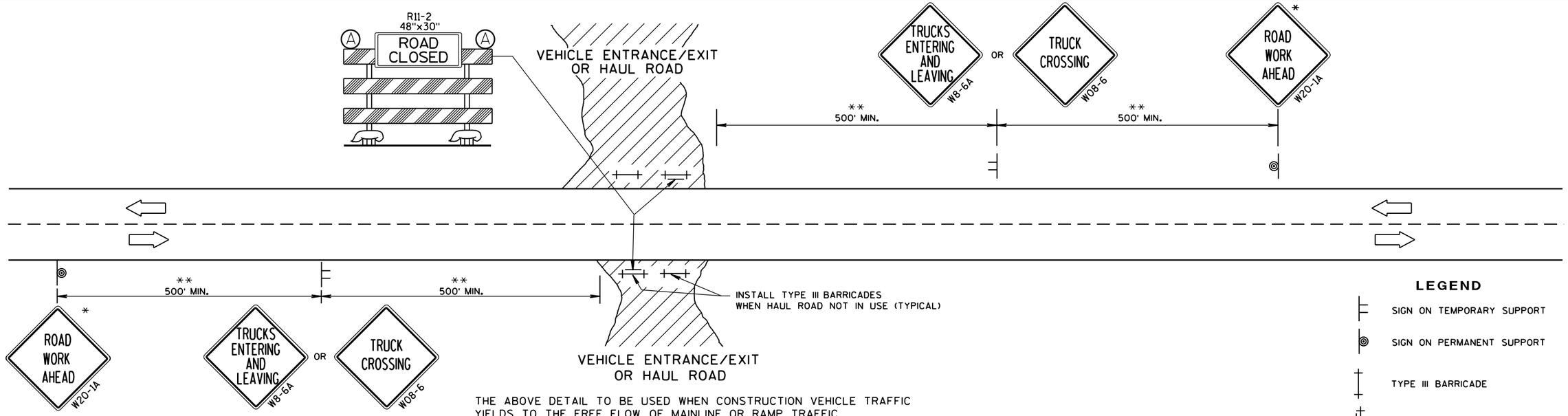
S.D.D. 15 D 27-3



THE ABOVE DETAIL TO BE USED WHEN CONSTRUCTION VEHICLE TRAFFIC YIELDS TO THE FREE FLOW OF MAINLINE OR RAMP TRAFFIC

LEGEND

- SIGN ON TEMPORARY SUPPORT
- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS, DEVICES AND FLAGGERS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

WHEN ACTIVITY REFLECTED BY THE SIGN IS NOT CURRENTLY TAKING PLACE, THE HIGHWAY SHALL BE RESTORED TO NORMAL CONDITION AND THE SIGNS SHALL BE REMOVED, COVERED OR TURNED AWAY FROM TRAFFIC.

WHEN A SIDE ROAD OR RAMP INTERSECTS WITHIN THE ADVANCE SIGNING AREA, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

* THESE SIGNS ARE TO BE USED ONLY WHEN VEHICLE **ENTRANCE/EXIT CONDITIONS ARE SEPARATED BY MORE THAN 2 MILES** FROM PREVIOUS WORK AREA OR SIGNING OR AS DIRECTED BY THE ENGINEER.

** 500 FEET SHOWN IS FOR ROADWAYS WITH A NON-CONSTRUCTION REGULATORY SPEED LIMIT OF 45 MPH OR MORE. FOR 35-40 MPH, USE 350 FEET. FOR 25-30 MPH, USE 200 FEET. USE 1000 FEET/1500 FEET FOR EXPRESSWAY/FREEWAY.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

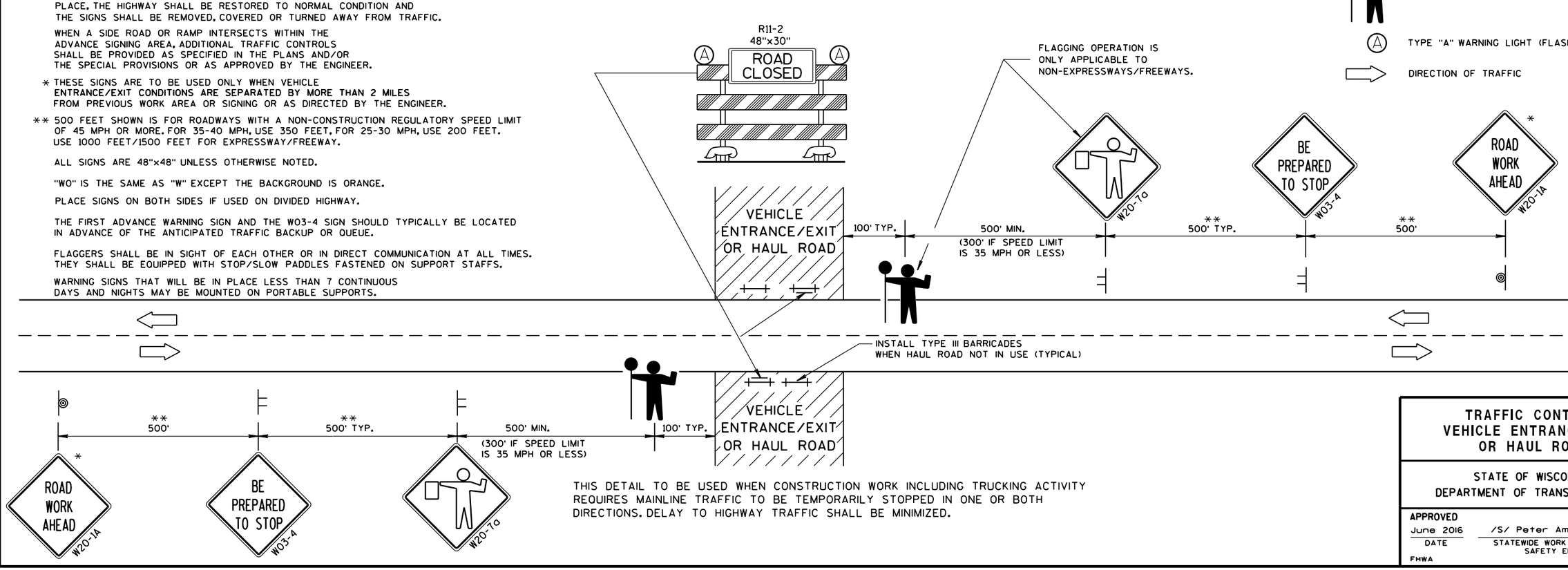
"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

PLACE SIGNS ON BOTH SIDES IF USED ON DIVIDED HIGHWAY.

THE FIRST ADVANCE WARNING SIGN AND THE W03-4 SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS.

WARNING SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.



THIS DETAIL TO BE USED WHEN CONSTRUCTION WORK INCLUDING TRUCKING ACTIVITY REQUIRES MAINLINE TRAFFIC TO BE TEMPORARILY STOPPED IN ONE OR BOTH DIRECTIONS. DELAY TO HIGHWAY TRAFFIC SHALL BE MINIMIZED.

TRAFFIC CONTROL, VEHICLE ENTRANCE/EXIT OR HAUL ROAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

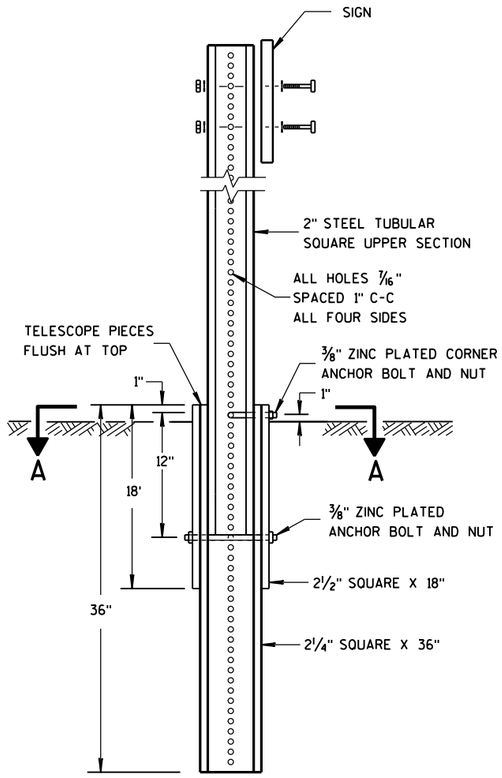
APPROVED

June 2016	/S/ Peter Amakobe Atepe
DATE	STATEWIDE WORK ZONE SAFETY ENGINEER

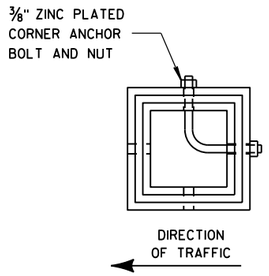
FHWA

6

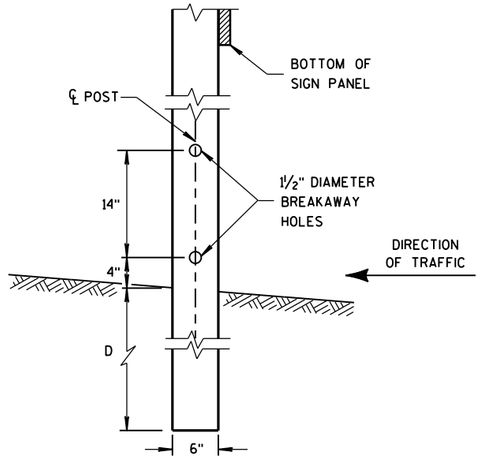
S.D.D. 15 D 29-4



DETAIL OF TUBULAR STEEL SIGN POST



SECTION A-A



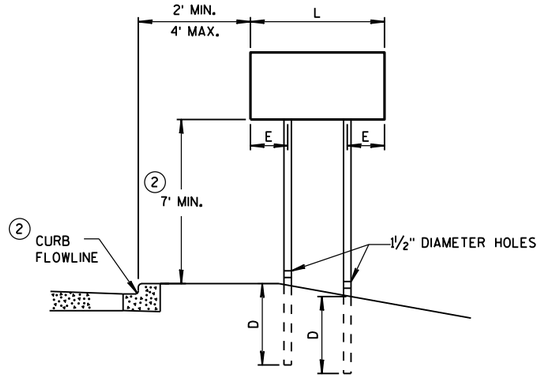
4"x6" WOOD POST MODIFICATION

GENERAL NOTES

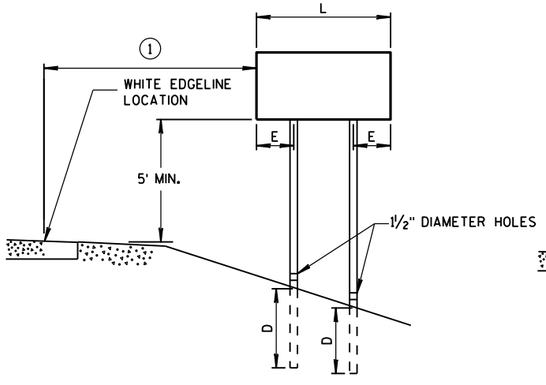
(1) 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.

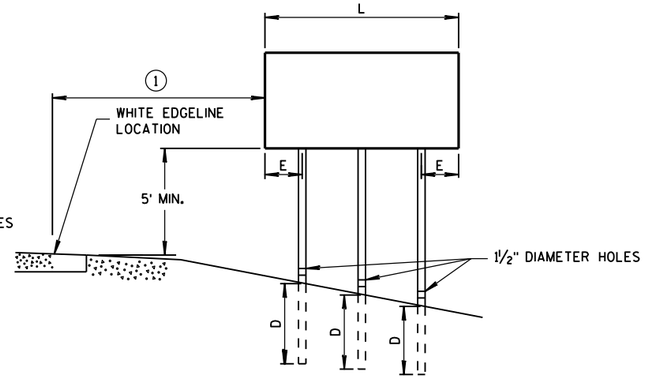
(2) THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY MEASURED WHERE THERE IS SIDEWALK ADJACENT TO THE ROADWAY OR PARKING IS PERMITTED. IN THE ABSENCE OF SIDEWALK, VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE CURB. IF NO SIDEWALK AND NO PARKING, VERTICAL CLEARANCE MAY BE REDUCED TO 5 FOOT MINIMUM. OFFSET OF SIGNS IS MEASURED FROM THE CURB FLOWLINE.

(3) FOR SIGNS REQUIRING 4 POSTS, SPACE INTERMEDIATE POSTS EVENLY.



URBAN AREA





RURAL AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

TUBULAR STEEL POSTS

AREA OF SIGN INSTALLATION (SQ. FT.)	NUMBER OF REQUIRED TUBULAR STEEL POSTS
9 OR LESS	1
GREATER THAN 9 LESS THAN OR EQUAL TO 18	2
GREATER THAN 18 LESS THAN OR EQUAL TO 27	3

SIGNS WIDER THAN 3 FEET OR LARGER THAN 9 SQ. FT. SHALL BE MOUNTED ON MULTIPLE POSTS (SEE ABOVE TABLE).

SIGNS LARGER THAN 27 SQ. FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.

WOOD POST EMBEDMENT DEPTH

AREA OF SIGN INSTALLATION (SQ. FT.)	D (MIN)
20 OR LESS	4'
GREATER THAN 20	5'

4" X 6" WOOD POST

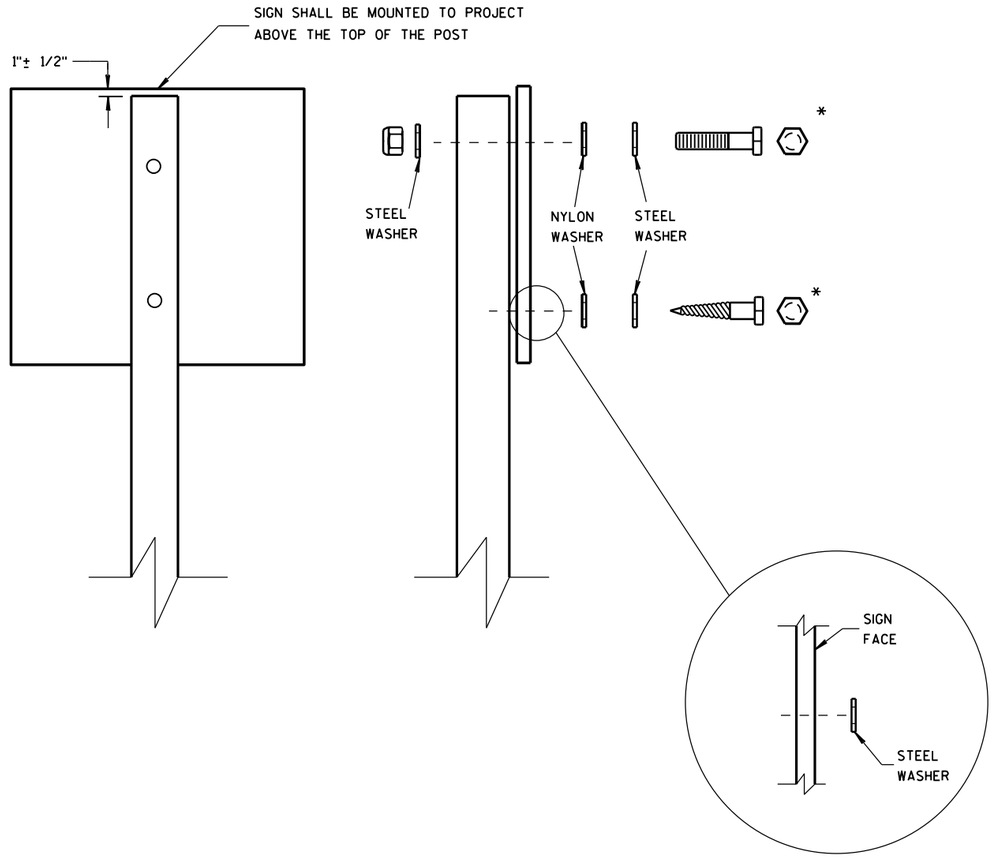
POST SPACING REQUIREMENTS		NUMBER OF WOOD POSTS REQUIRED
L	E	
48" OR LESS AND LESS THAN 20 SQ. FT.	-	1
LESS THAN 60"	12"	2
60" TO 120"	L/5	2
GREATER THAN 120" LESS THAN 168"	12"	3
168" AND GREATER	12"	4

SEE NOTE (3)

TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6
S.D.D. 15 D 38-1a



WASHER PLACEMENT WHEN SIGN HAS OTHER THAN TYPE H OR TYPE F FACE

NUTS, BOLTS AND LAGS USED FOR MOUNTING SIGNS SHALL HAVE HEXAGONAL HEADS AND SHALL BE EITHER:

A. HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: A 153, CLASS D, OR SC 3

B. ELECTRO-GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: B 633, TYPE III, SC 3

THREADS ON BOLTS AND NUTS SHALL BE MANUFACTURED WITH SUFFICIENT ALLOWANCE FOR THE CADMIUM PLATE OR GALVANIZED COATING TO PERMIT THE NUTS TO RUN FREELY ON THE BOLTS.

WOOD POSTS (4" x 4" or 4" x 6")

LAG SCREWS - 3/8" X 3"

MACHINE BOLTS - 5/16" X 6-1/2" OR 7" LENGTH W/ NUTS

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" LENGTH W/ NUTS

RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL

1-1/4" O.D. X 3/8" I.D. X .080 NYLON FOR ALL TYPE H SIGNS

* TWO DIFFERENT FASTENING SYSTEMS ARE SHOWN FOR ILLUSTRATION PURPOSES. ON ANY INDIVIDUAL SIGN, EITHER ONE OR THE OTHER SYSTEM SHALL BE USED. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA. FOR A SINGLE POST INSTALLATION, ALL SIGNS GREATER THAN 9 SQ. FT. REQUIRE THE USE OF 3 FASTENERS.

6

6

S.D.D. 15 D 38-1b

S.D.D. 15 D 38-1b

ATTACHMENT OF SIGNS TO POSTS

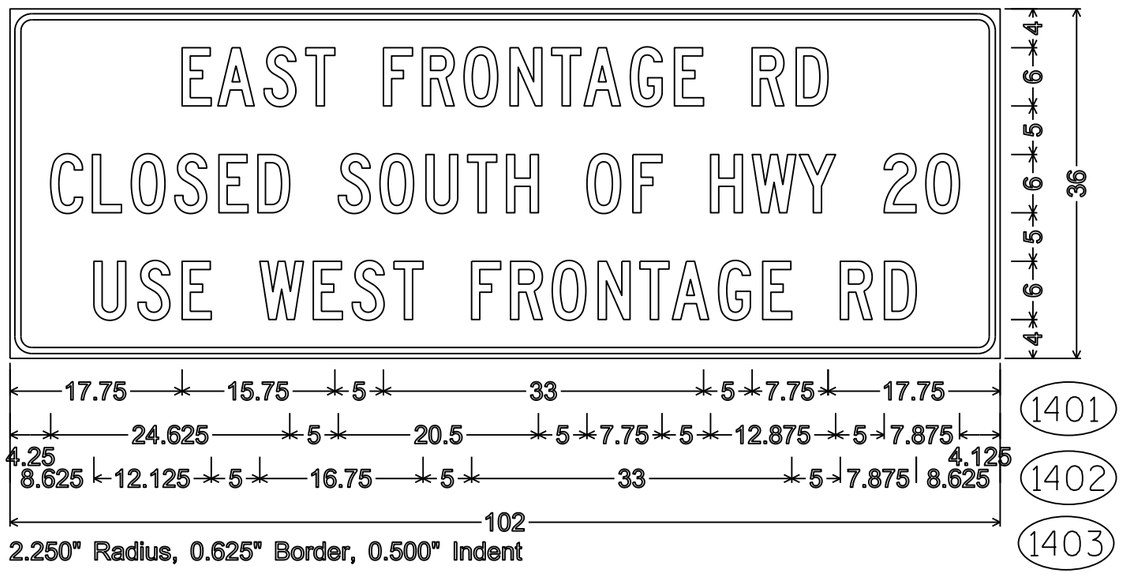
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Feb. 2015 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

SIGN

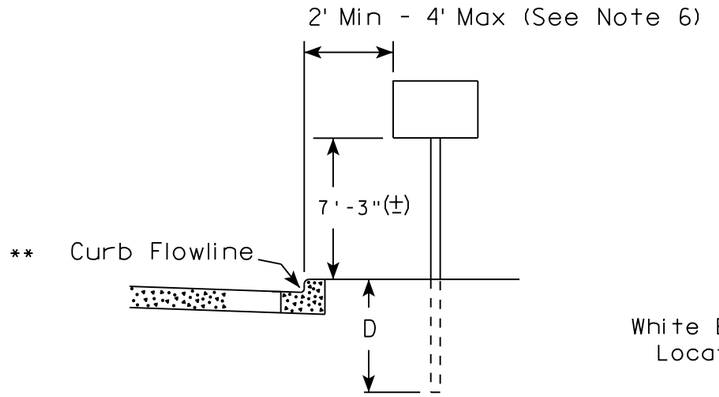
NOTES

1. Fixed Message Type II Signs - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C

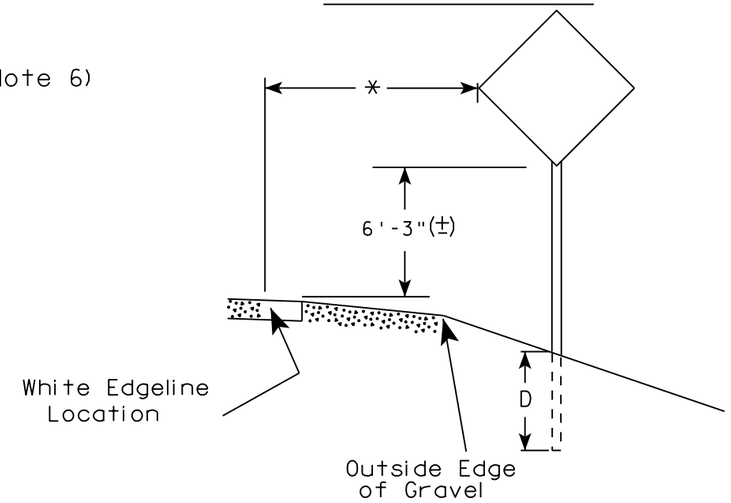


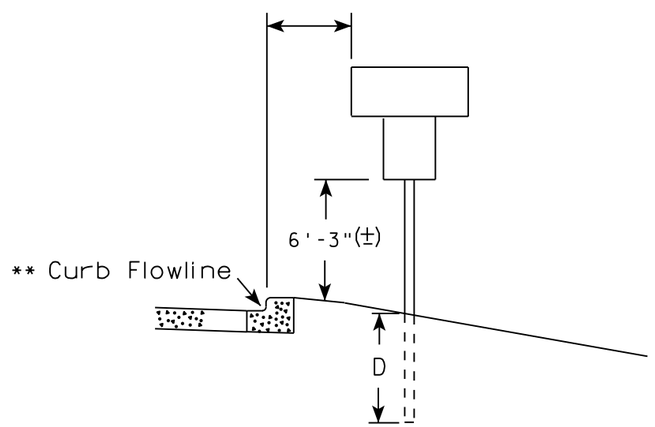
2.250" Radius, 0.625" Border, 0.500" Indent

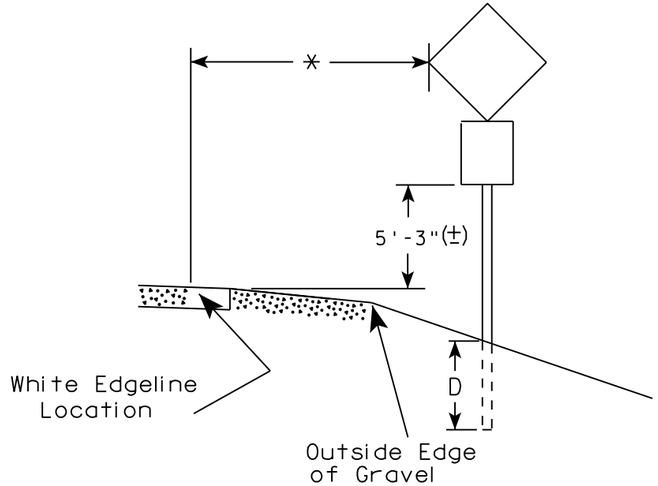
URBAN AREA



RURAL AREA (See Note 2)







** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq.Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on barrier wall, see A4-10 sign plate.
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. J-Assemblies are considered to be one sign for mounting height.
5. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. The (±) tolerance for mounting height is 3 inches.
8. Folding signs shall be mounted at a height of 5'-3" (±) or as directd by the Engineer.
9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).

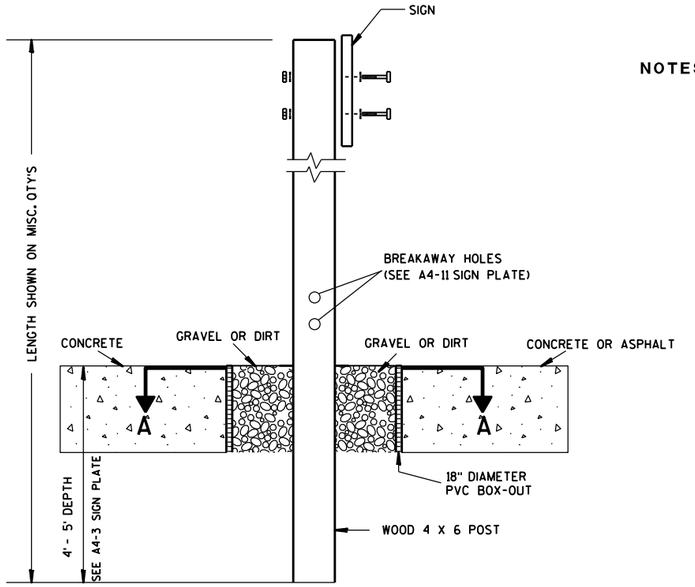
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/21/17 PLATE NO. A4-3.21

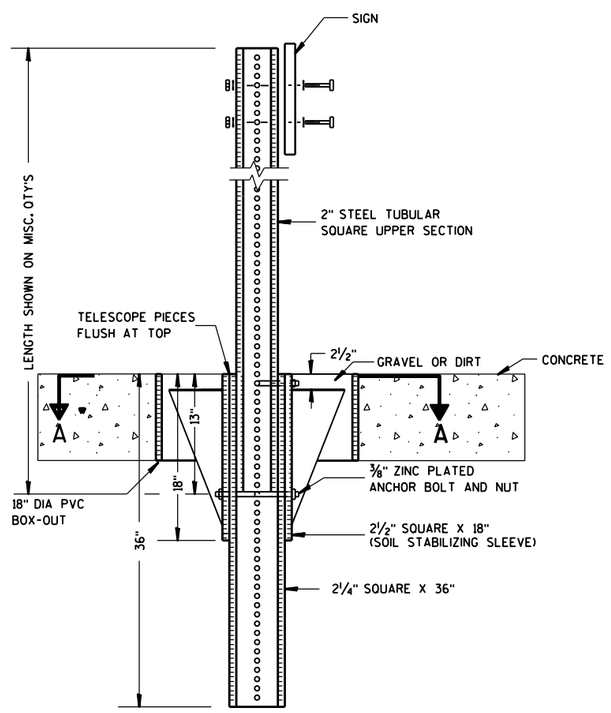
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 132	E



ELEVATION VIEW

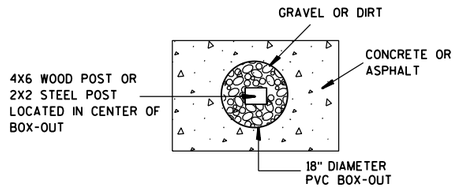
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

NOTES:
1. ALL MATERIAL TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION
2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

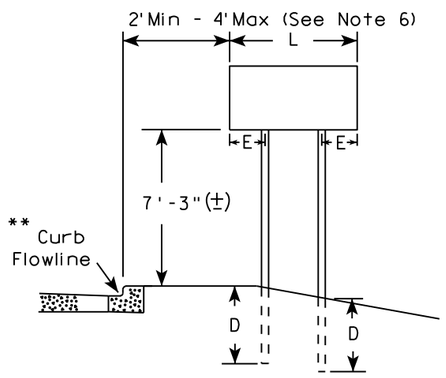
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

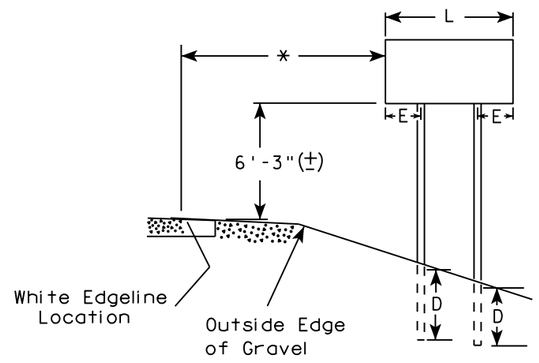
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

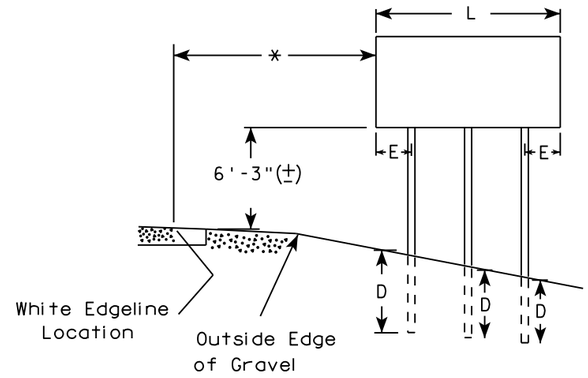
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN PLOT DATE : 27-JAN-2014 09:48 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42

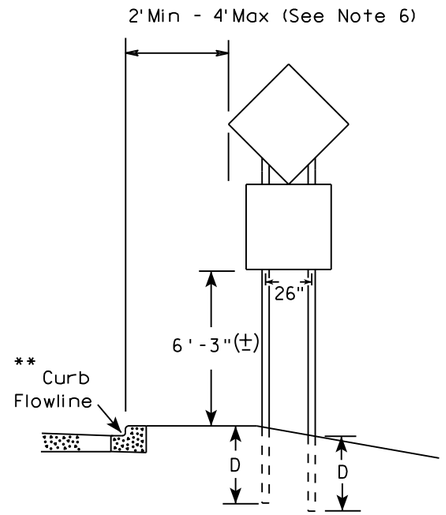
URBAN AREA



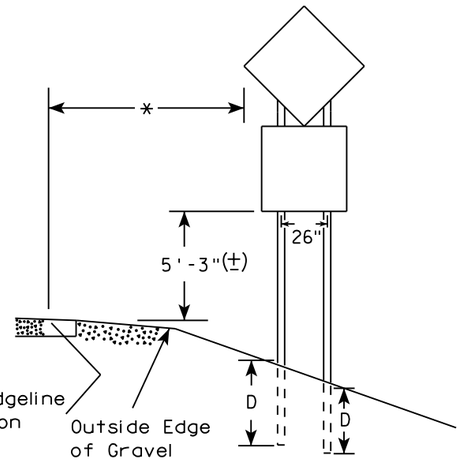
RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

***	SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)	
	L	E
	Greater than 48" Less than 60"	12"
	60" to 108"	L/5

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 108" to 144"	12"

GENERAL NOTES

1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
2. See tables below for required number of posts.
3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
4. The (±) tolerance for mounting height is 3 inches.
5. J-Assemblies are considered to be one sign for mounting height.
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±).

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

*** See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

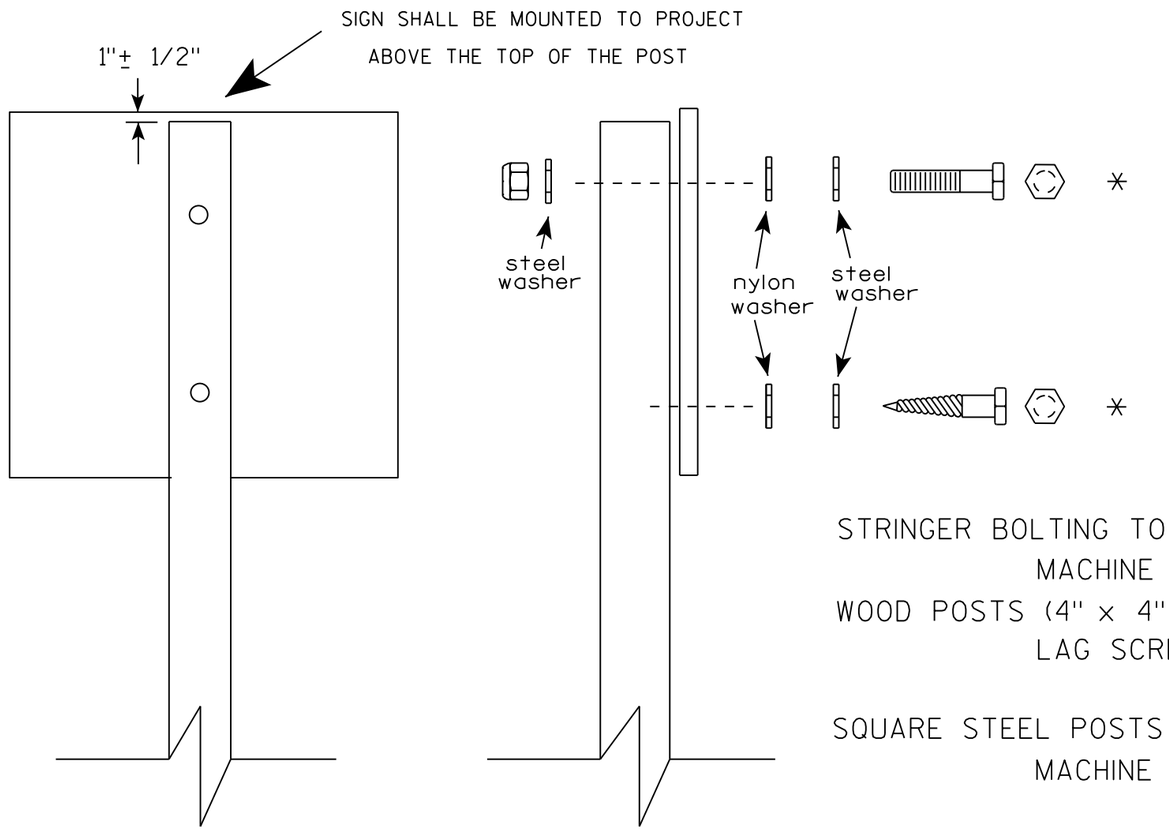
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/21/17 PLATE NO. A4-4.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 134	E



Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3
b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)
MACHINE BOLTS - 5/16" X 1-3/4" Length w/ lock nuts
WOOD POSTS (4" x 4" or 4" x 6")
LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)
3/8" X 4" (STRINGERS ON BACK OF SIGN)
SQUARE STEEL POSTS (2" x 2")
MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)
3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)
RIVETS - 9/32 " (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH
WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON

* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

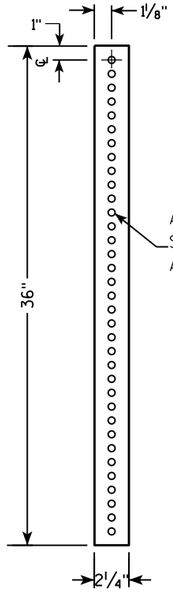
DATE 8/11/16 PLATE NO. A4-8.8

PROJECT NO: SHEET NO: E

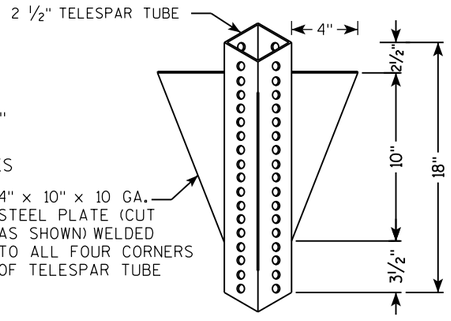
FILE NAME : C:\CADfiles\Projects\tr_stdplate\A48.DGN PLOT DATE : 11-AUG-2016 11:35 PLOT BY : $$ plotuser $$

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

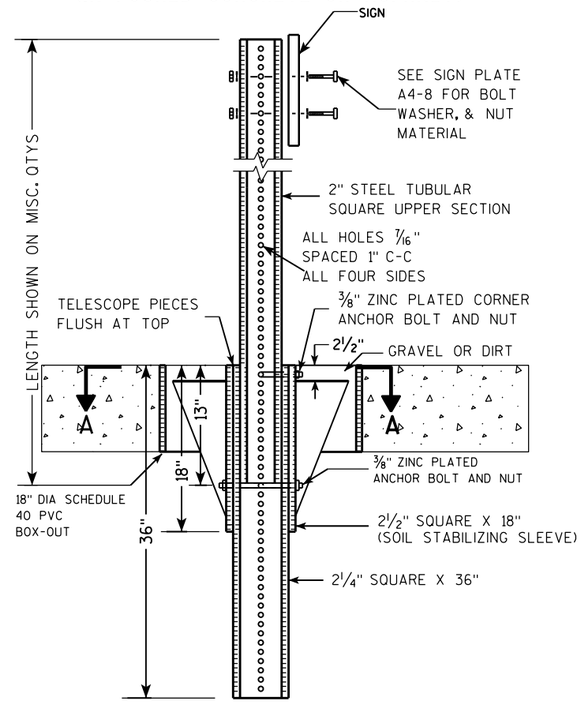
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



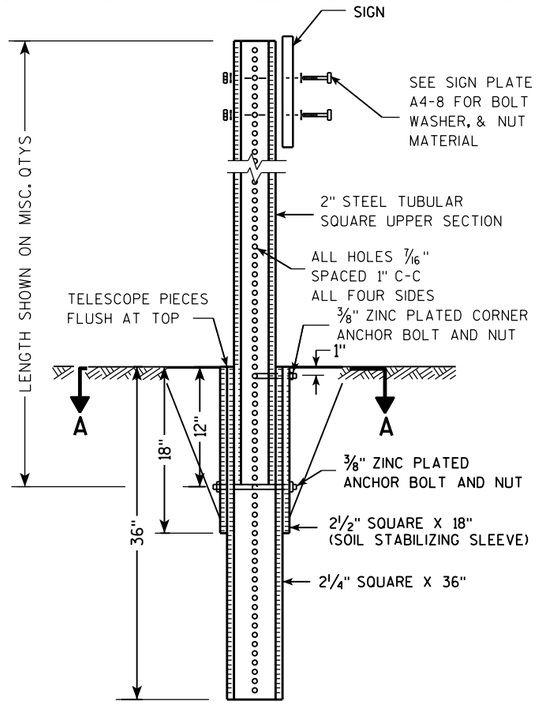
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

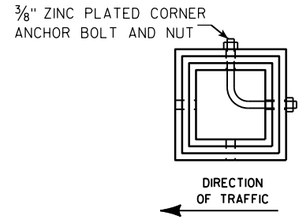


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



DETAIL OF TUBULAR STEEL SIGN POST
(IN LOCATIONS OTHER THAN POURED CONCRETE OR ASPHALT)





SECTION A-A

Area of Sign Installation (Sq. Ft.)	Number of Required Posts
9 or less	1
Greater than 9 less than or equal to 18	2
Greater than 18 less than or equal to 27	3

Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

TUBULAR STEEL
SIGN POST
A4-9

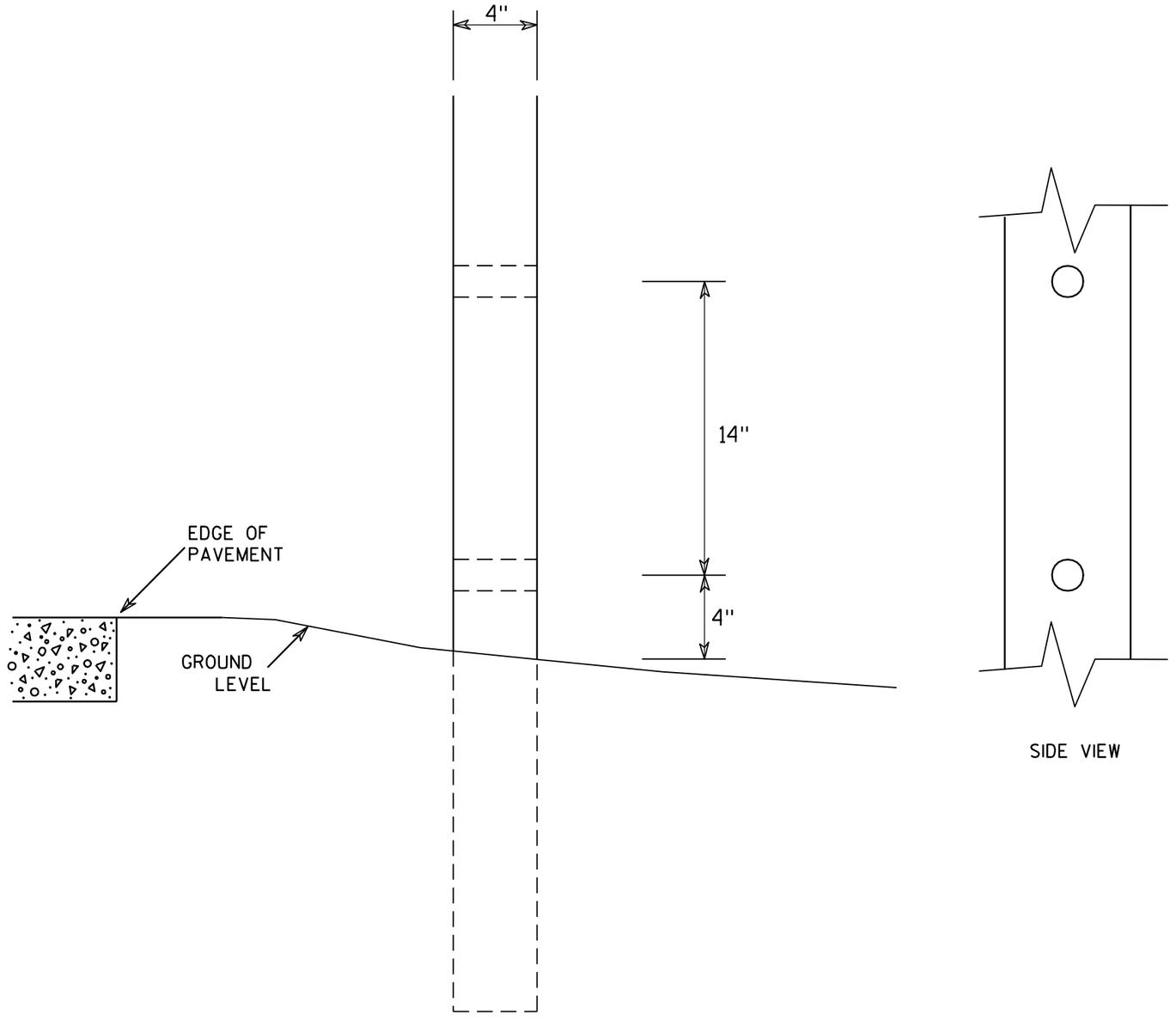
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE A4-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN PLOT DATE : 05-FEB-2015 17:09 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42



SIDE VIEW

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

7

7

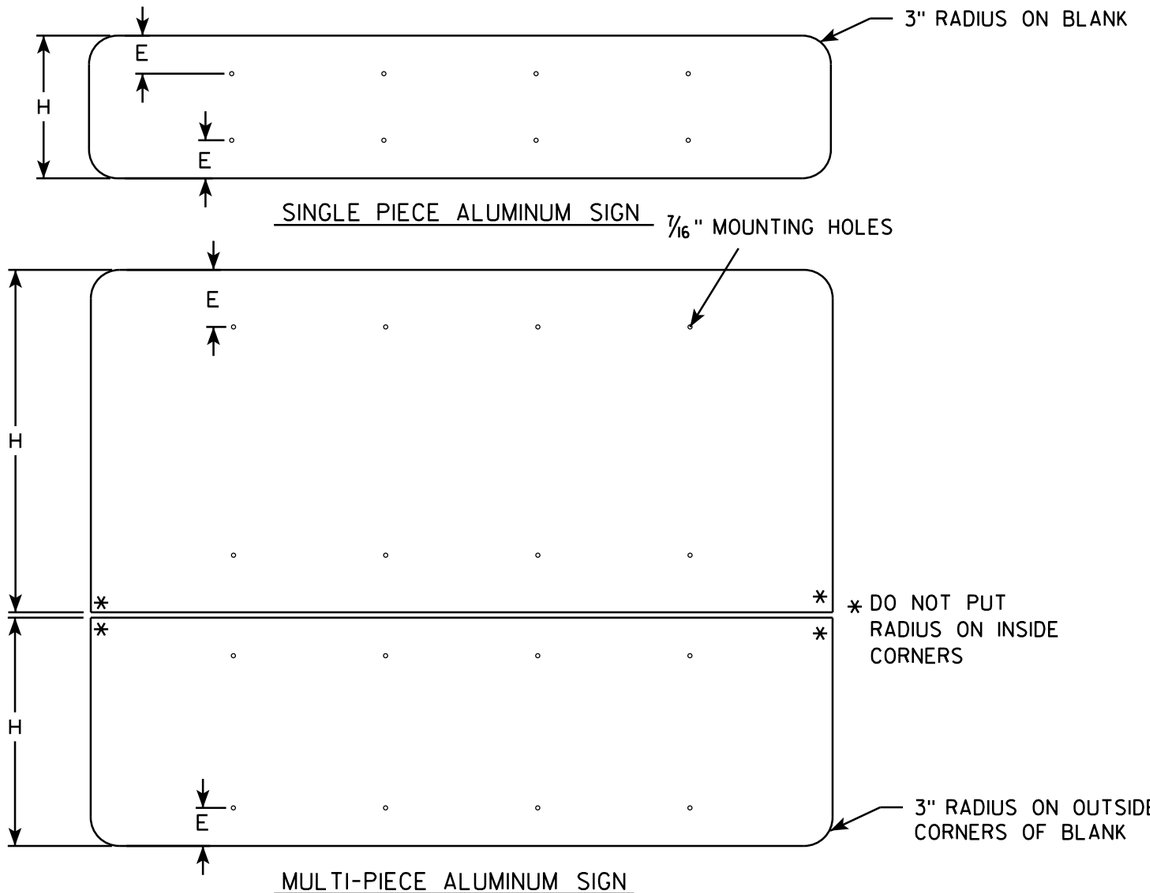
4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang for State Traffic Engineer

DATE 3/27/97 PLATE NO. A4-11.2

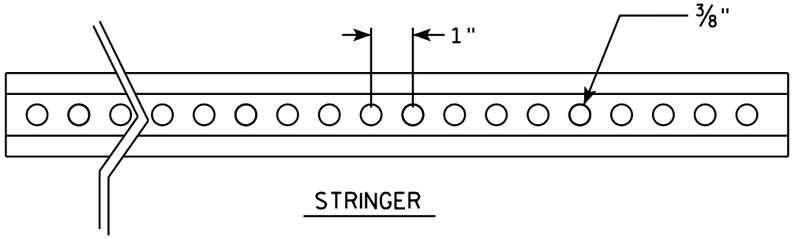
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 137	E



GENERAL NOTES

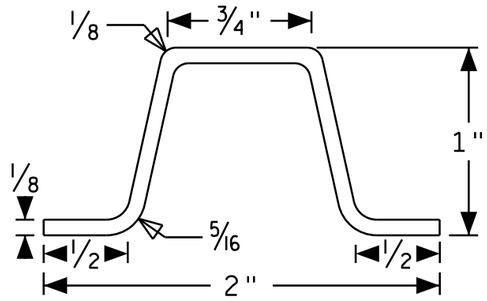
- ALL SIGNS OVER 60" IN WIDTH SHALL HAVE A 3" RADIUS ON THE OUTSIDE CORNERS OF THE ALUMINUM BLANK.
- MOUNTING HOLES SHALL BE 7/16" DIAMETER.
- SEE CHART FOR HOLE SPACING REQUIREMENTS
- FOR SIGN PANELS WITH DIMENSION (H) 36" AND OVER, DIMENSION E SHALL BE 6"
- FOR SIGN PANELS WITH DIMENSION (H) UNDER 36", DIMENSION E SHALL BE 4"
- SIGN STRINGER MATERIAL SHALL CONSIST OF STEEL CHANNEL POST SECTIONS, WEIGHING 1.12 LBS/FT IN ACCORDANCE WITH SECTION 633.2.1 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.
- SEE SIGN PLATE A4-8 FOR SIGN STRINGER BOLTING REQUIREMENTS.

SIGN WIDTH	STRINGER WIDTH	POSTS	HOLE SPACING	MOUNTING HOLES
78"	72"	2	16"	15" 31" 47" 63"
84"	72"	2	17"	16½" 33½" 50½" 67½"
90"	72"	2	18"	18" 36" 54" 72"
96"	90"	2	19"	19½" 38½" 57½" 76½"
102"	90"	2	20"	21" 41" 61" 81"
108"	90"	2	21"	22½" 43½" 64½" 85½"
114"	108"	3	15"	12" 27" 42" 57" 72" 87" 102"
120"	108"	3	16"	12" 28" 44" 60" 76" 92" 108"
126"	108"	3	17"	12" 29" 46" 63" 80" 97" 114"
132"	126"	3	18"	12" 30" 48" 66" 84" 102" 120"
138"	126"	3	19"	12" 31" 50" 69" 88" 107" 126"
144"	126"	3	20"	12" 32" 52" 72" 92" 112" 132"

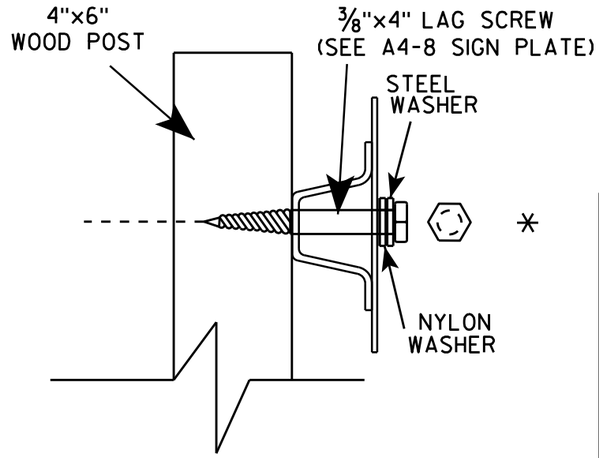


STRINGER

CROSS SECTION VIEW OF CHANNEL



POST MOUNTING



SIGN STRINGER MOUNTING REQUIREMENTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch

for State Traffic Engineer

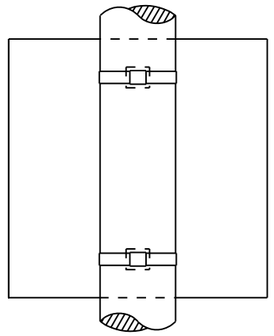
DATE 4/26/16 PLATE NO A4-18.1

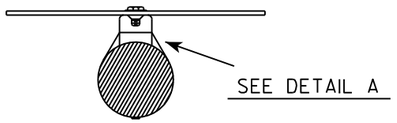
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A418.dgn PLOT DATE : 27-APR-2016 13:56 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 41.805205:1.000000 WISDOT/CADDS SHEET 42

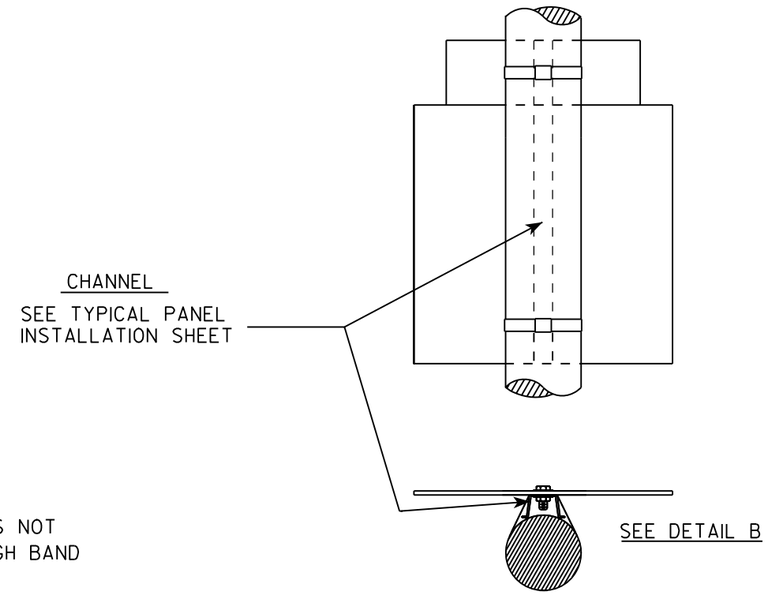
BANDING

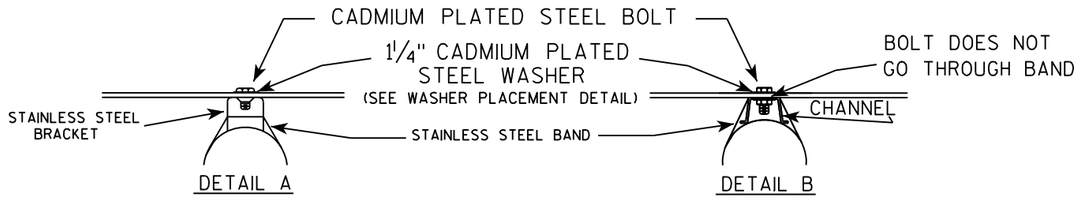
SINGLE SIGN



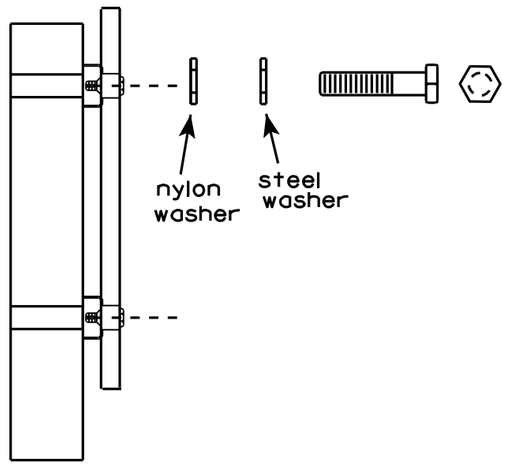


"J" ASSEMBLY





WASHER PLACEMENT



WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be 3/4" in width and 0.025" thickness.

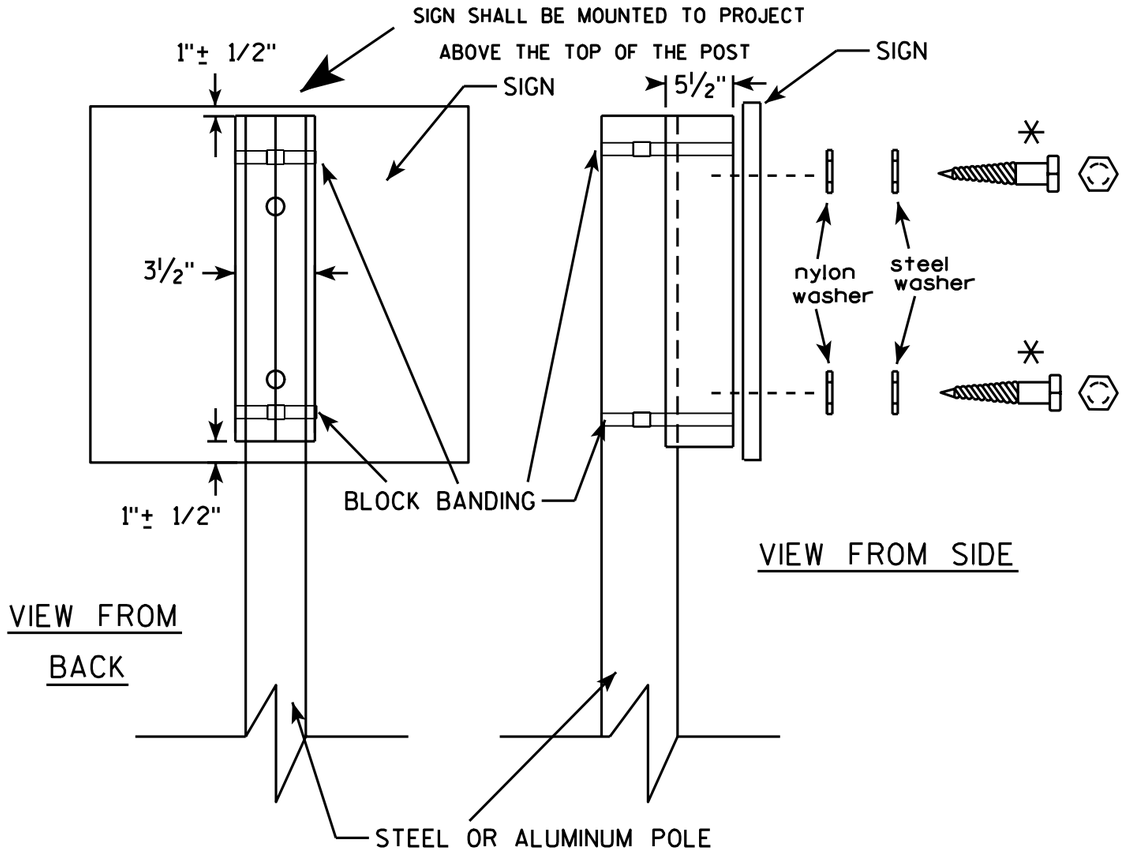
STANDARD SIGN
SIGN BANDING DETAILS

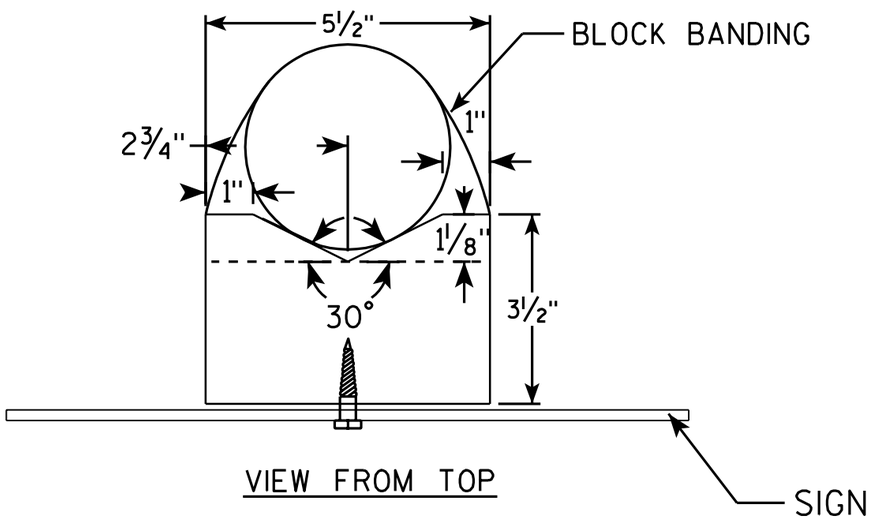
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/16/13 PLATE NO. A5-9.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 139	E





GENERAL NOTES

1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WisDOT STANDARD SPECIFICATIONS
2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, ¾" WIDTH AND 0.025" THICKNESS
3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D, or
   b. Cadmium plated in accordance with ASTM Designation : B 766 TYPE 3, Class 12, or
   c. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.
6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
7. STEEL WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X 1/16"
8. NYLON WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

✳ LAG BOLTS SHALL BE ⅜" X 2½"

BLOCK BANDING DETAIL (V-BLOCK OPTION)

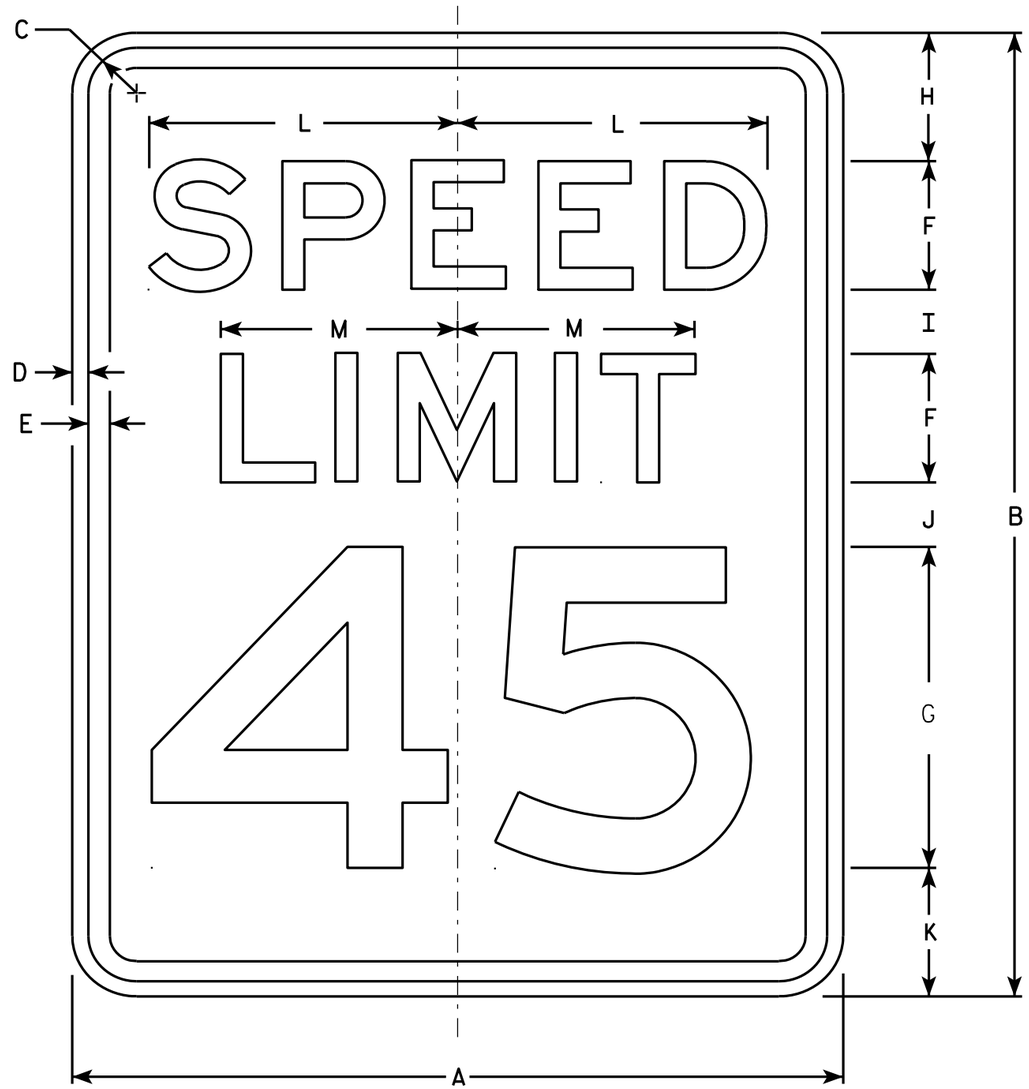
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/12/07 PLATE NO. A5-10.1

PROJECT NO:

SHEET NO: 140 E



R2-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0
2S	24	30	1 1/8	3/8	1/2	4	10	3	2 1/4	3 3/8	3 3/8	9 5/8	7 3/8														5.0
2M	30	36	1 3/8	1/2	5/8	5	12	5	2 1/2	2 1/2	4	12	9 1/4														7.5
3	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
4	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
5	48	60	2 1/4	3/4	1	8	20	6	4 1/2	6 3/4	6 3/4	19 1/4	14 5/8														20.0

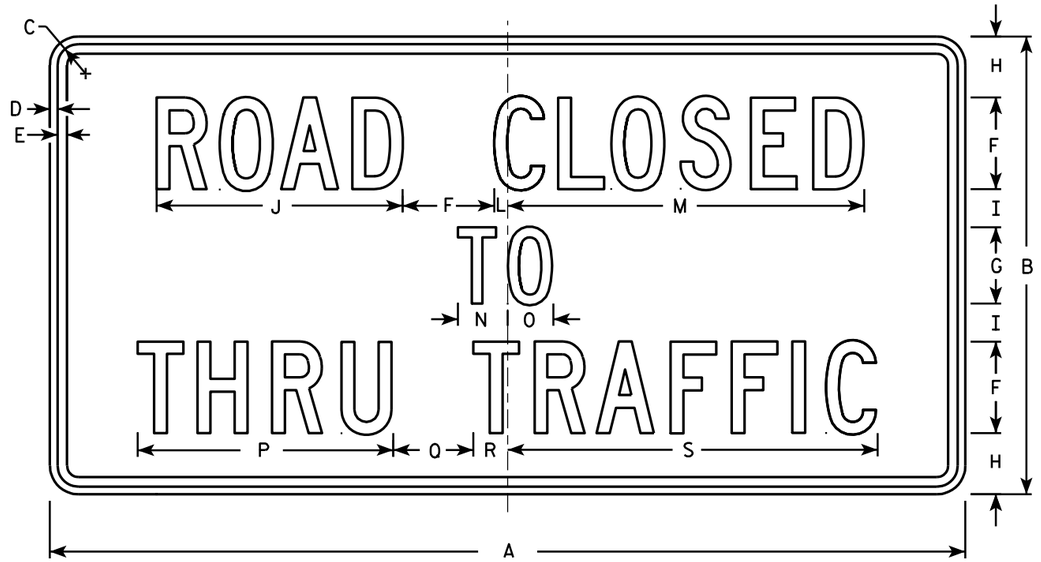
STANDARD SIGN
R2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/26/10 PLATE NO. R2-1.13

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 141 | E



R11-4

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	60	30	1 3/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
2M	60	30	1 3/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
3																											
4																											
5																											

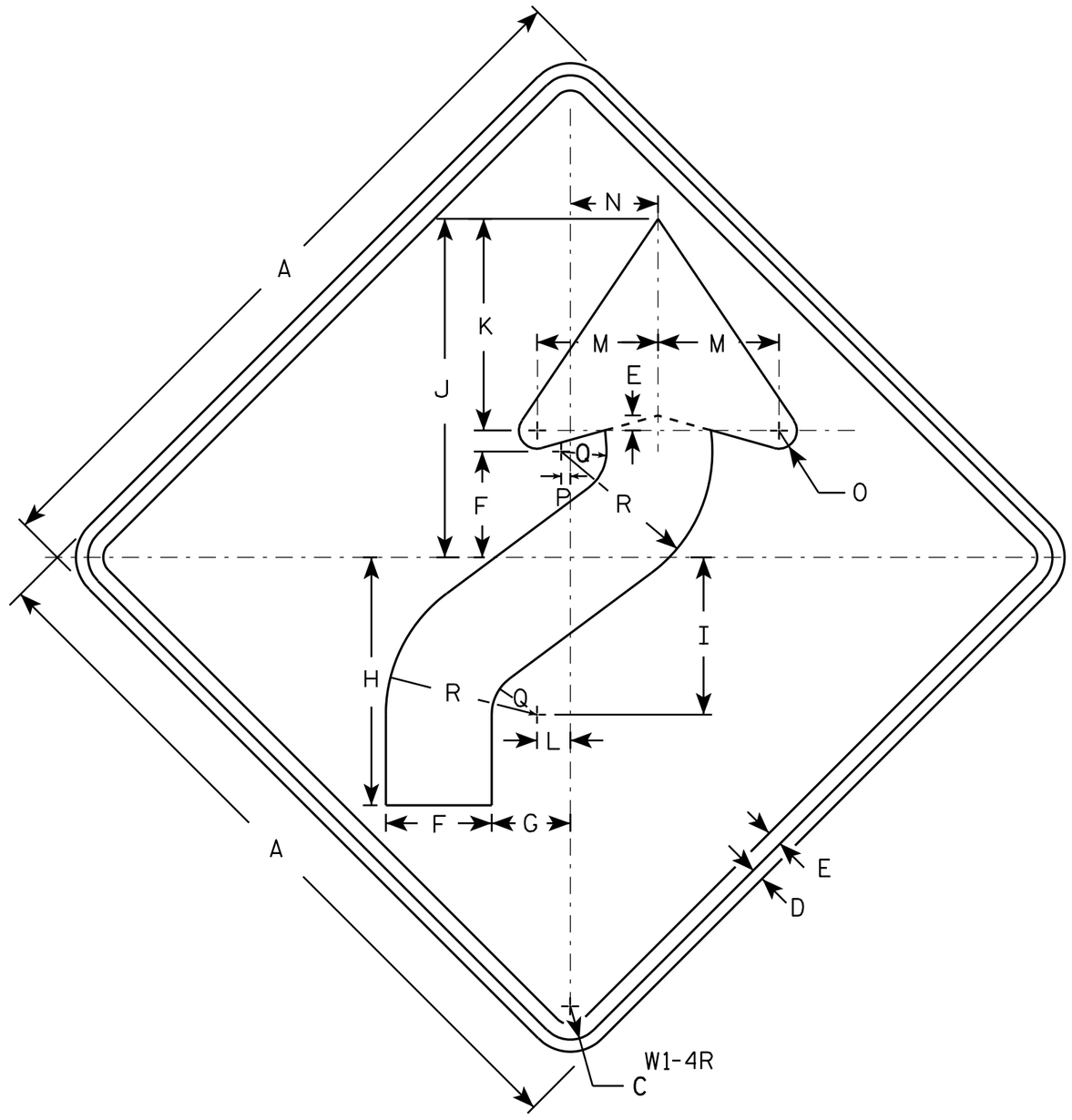
STANDARD SIGN
R11 - 4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 4/1/11 PLATE NO. R11-4.3

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 142 | E



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W1-4L is the same as W1-4R except the arrow is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	3 1/2	2 5/8	8 1/4	5 1/4	11 1/4	7	1 1/8	4	3	5/8	1/4	1 1/2	5									4.0
2S	30		1 3/8	1/2	5/8	4 3/8	3 1/4	10 1/4	6 1/2	14	8 3/4	1 3/8	5	3 5/8	3/4	3/8	1 7/8	6 1/4									6.25
2M	36		1 5/8	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
3	36		1 5/8	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
4	36		1 5/8	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
5	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0

STANDARD SIGN

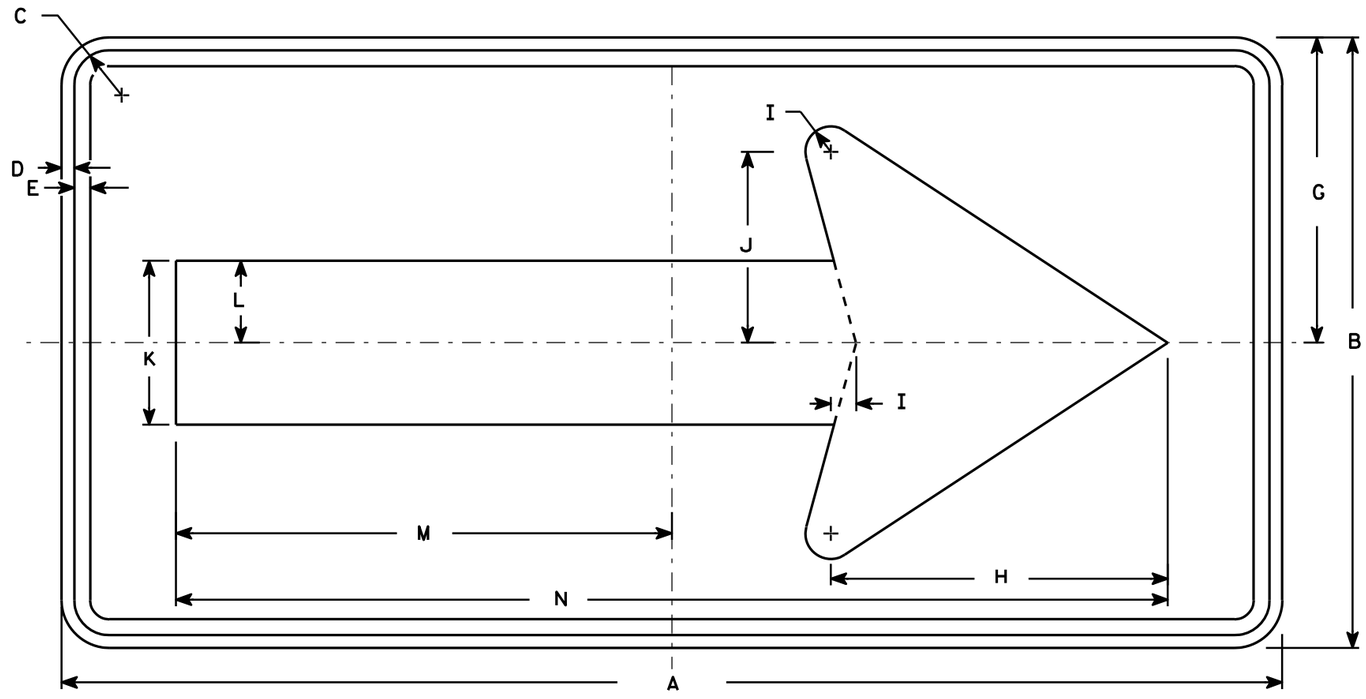
W1-4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 5/17/12 PLATE NO. W1-4.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 143 | E



W1-6

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	18	1 1/8	3/8	3/8		9	10	3/4	5 5/8	4 3/4	2 3/8	14 5/8	29 1/4													4.5
2S	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
2M	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
3	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
4	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
5	96	48	2 1/4	3/4	1		24	26 1/2	2	15	13	6 1/2	39	78													32.0

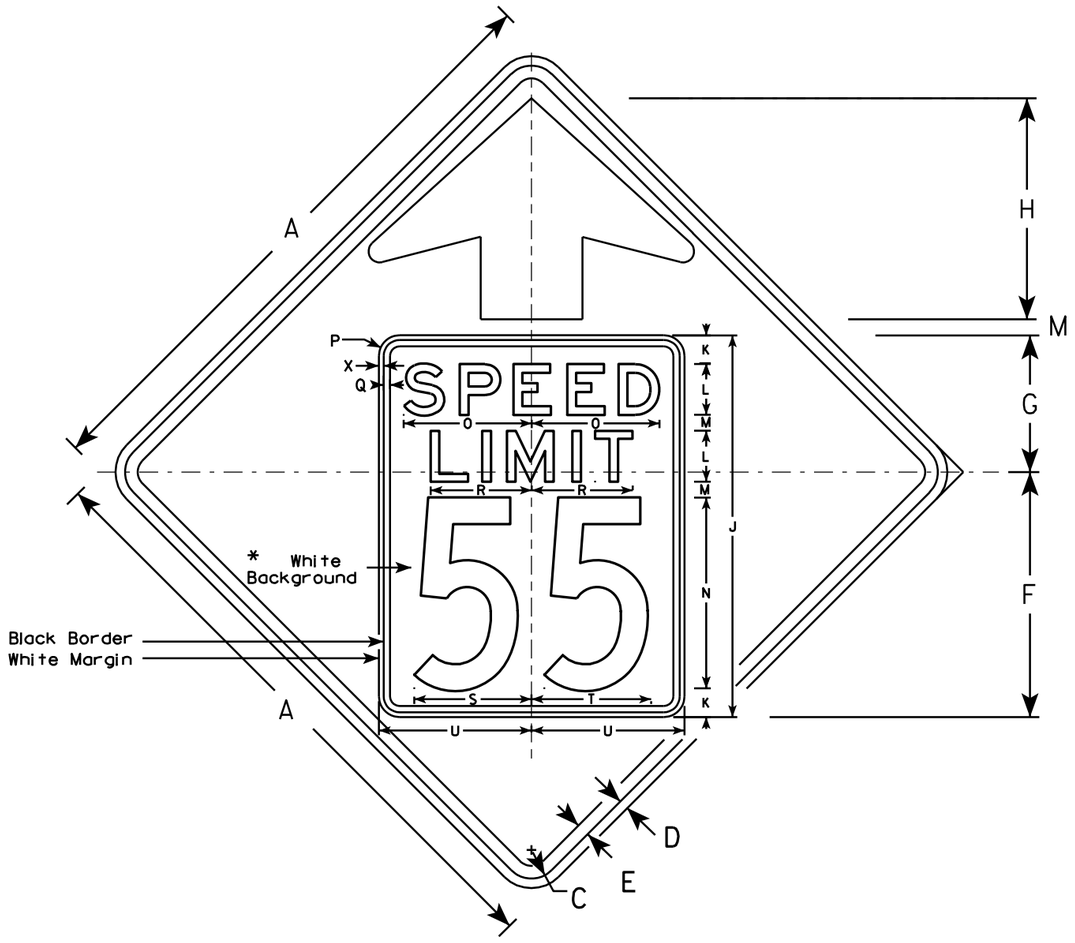
STANDARD SIGN
W1-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W1-6.8

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 144

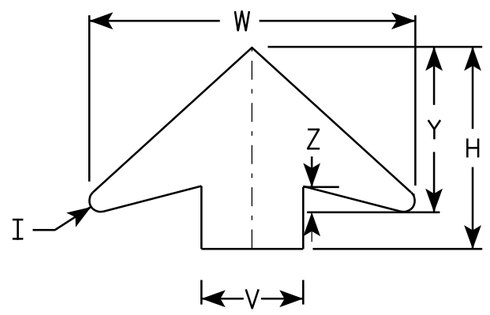


W3-5

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color: *
   Background - YELLOW*
   Message - BLACK
3. Message Series - C for numbers Series E for wording
4. Substitute appropriate numerals and optically adjust spacing to achieve proper balance

*Speed Limit Sign shall have a White Background



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
2M	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
3	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
4	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0
5	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0

STANDARD SIGN
W3-5

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

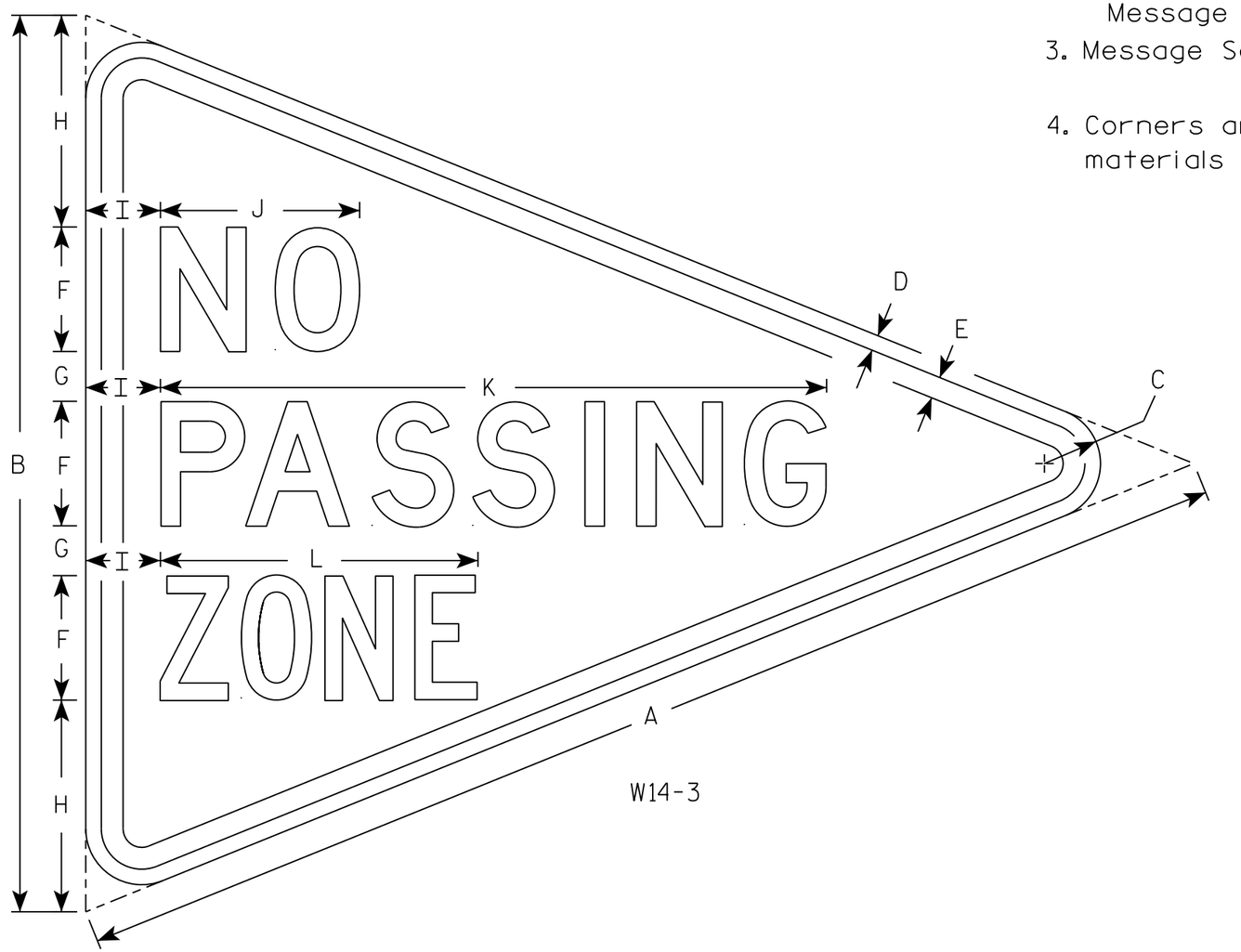
DATE 5/29/12 PLATE NO. W3-5.5

PROJECT NO:

SHEET NO: 145 E

NOTES

1. Sign is Type II- Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - Lines 1 and 2 are Series D.
   Line 3 is series C.
4. Corners and borders shall be rounded on all base materials for this sign.



W14-3

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	36	2 1/4	5/8	7/8	5	2	8 1/2	3	8	26 3/4	12 3/4															5.56
2M																											
3																											
4																											
5																											

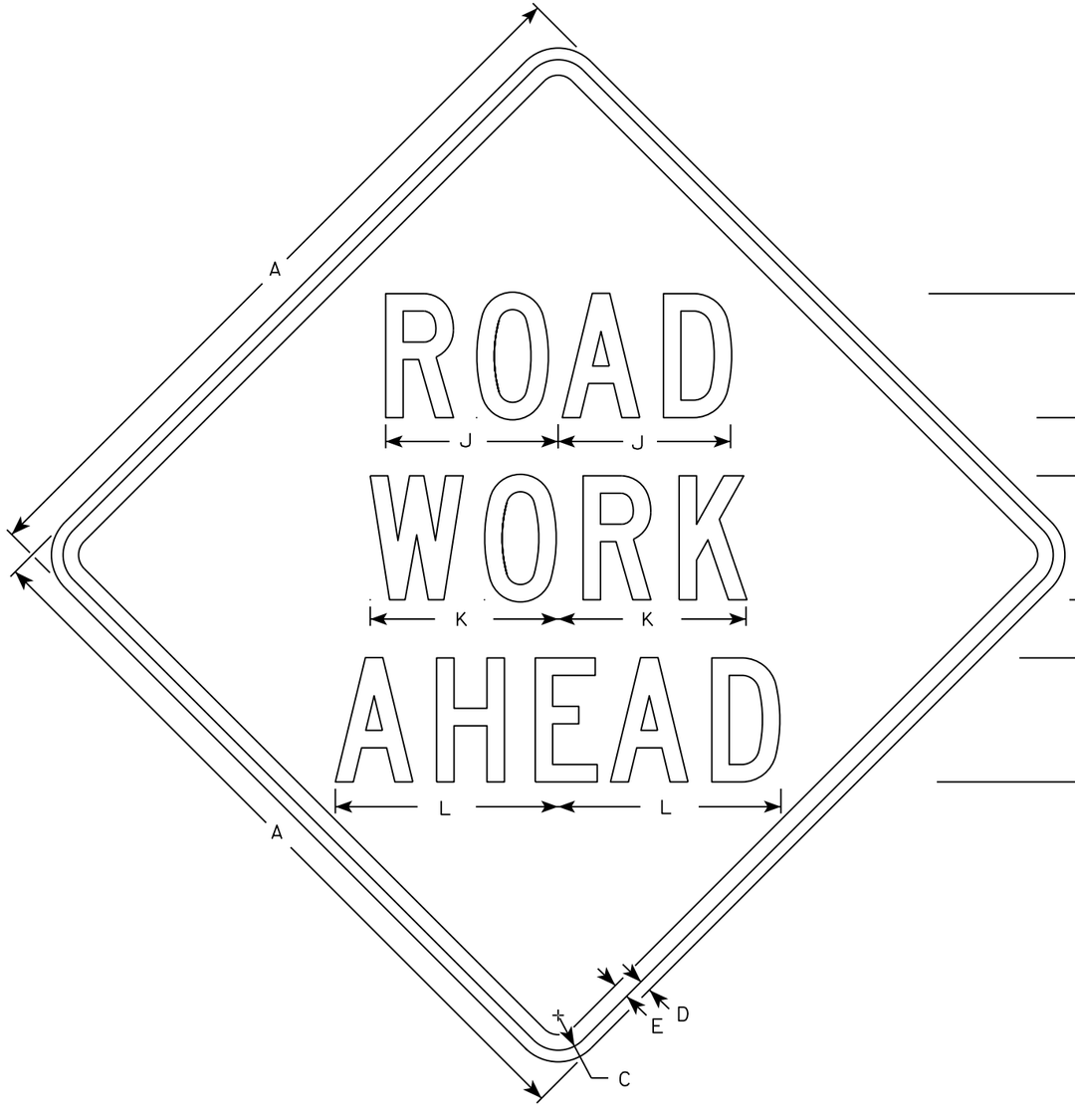
STANDARD SIGN
W14-3

WISCONSIN DEPT OF TRANSPORTATION

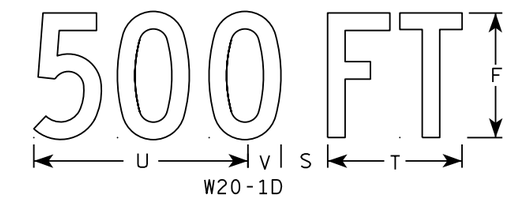
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/21/17 PLATE NO. W14-3.10

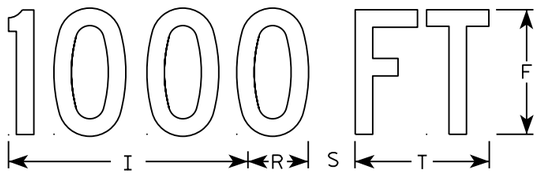
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 146 | E



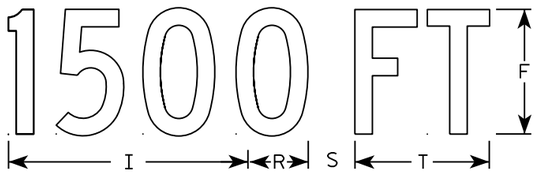
W20-1A



W20-1D

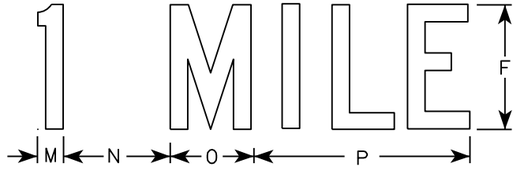


W20-1C

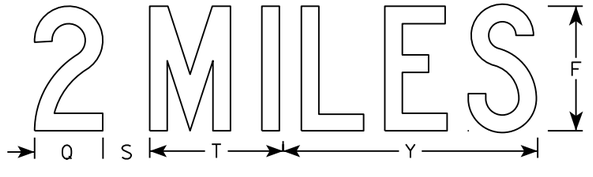


W20-1B

W20-1G



W20-1F



W20-1E

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 3/8	1/2	5/8	5	2 5/8	3 1/4	10 1/8	7	7 5/8	8 7/8	1 1/8	4 1/2	3 1/2	9		2 1/2	2 1/4	5 5/8	9	1 3/8	8	1 3/4	10 3/4	6	9.0
2S	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
2M	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
3	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
4	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
5	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0

STANDARD SIGN
W20-1A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

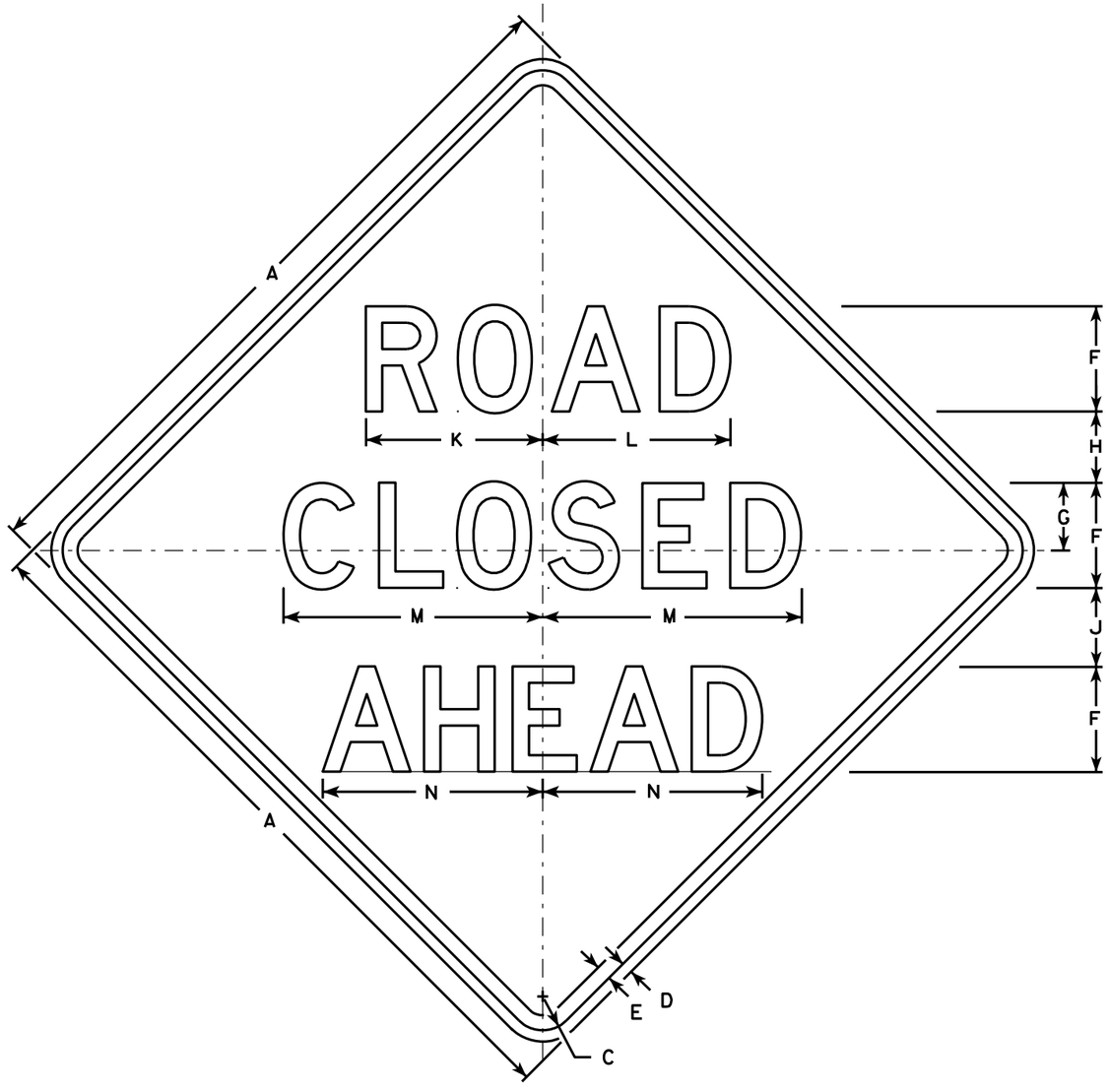
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/07/15 PLATE NO. W20-1.10

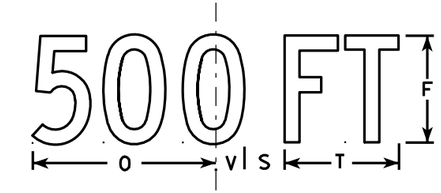
PROJECT NO:

SHEET NO: E

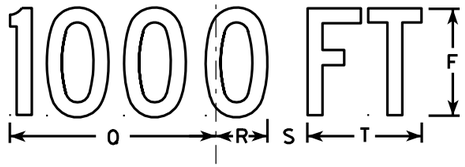
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W201.DGN PLOT DATE : 01-DEC-2015 18:24 PLOT BY : $$ plotuser $$



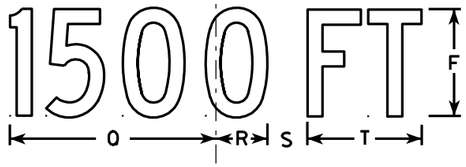
W20-3A



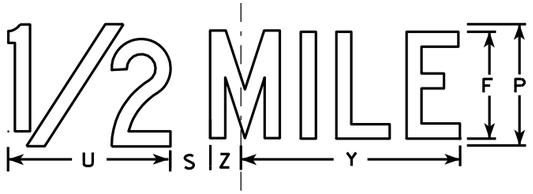
W20-3D



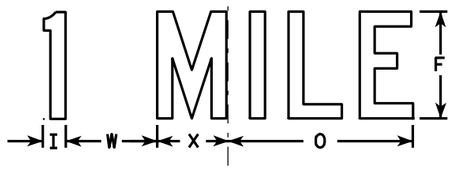
W20-3C



W20-3B



W20-3G



W20-3F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - see note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1 and 2 are Series D.
   Line 3 is Series D for AHEAD and Series C for all other distances.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5	3 3/8	3 1/2	1 1/8	4	8 3/8	8 7/8	12 1/2	11	9	6	10 1/8	2 1/2	1 7/8	5 5/8	8	1 3/8	4 1/2	3 1/2	10 3/4	1 3/4	9.0
2S	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
2M	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
3	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
4	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
5	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0

STANDARD SIGN
W20-3A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer
DATE 3/18/11 PLATE NO. W20-3.7

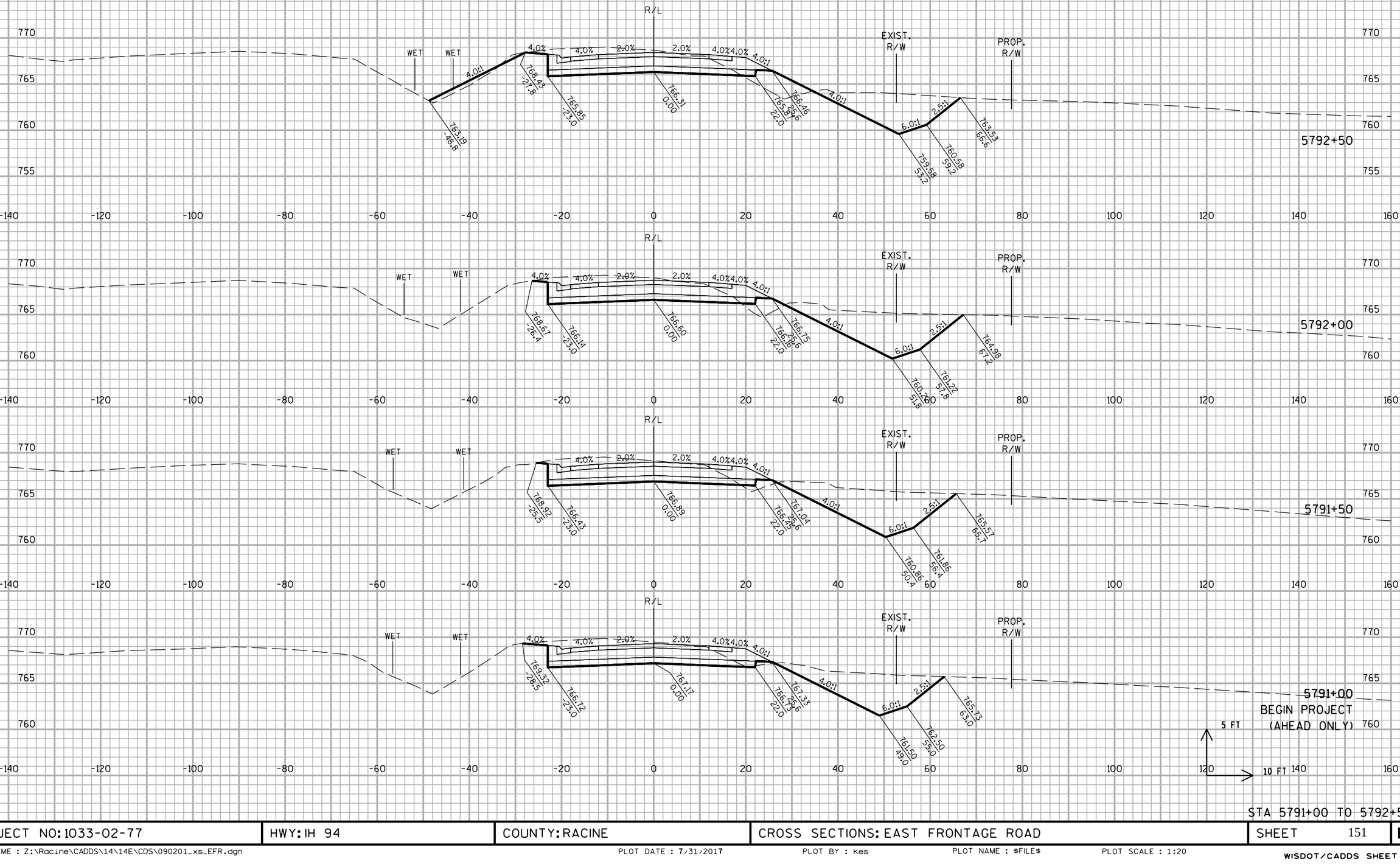
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 148 | E

		EAST FRONTAGE ROAD												
		AREA (SF)				Incremental Vol (CY) (Unadjusted)				Cumulative Vol (CY) (Unadjusted)				Unadjusted
STATION	Distance	Cut	Salvaged/Unusable Pavement Material	Fill	Existing Pavement EBS	Cut	Salvaged/Unusable Pavement Material	Fill	Existing Pavement EBS	Cut 1.00	Salvaged/Unusable Pavement Material	Fill 1.00	Existing Pavement EBS	Mass Ordinate
5790+50	0.00	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0
5791+00	50.00	184.3	28.4	1.2	0.0	171	26	1	0	171	26	1	0	143
5791+50	50.00	201.2	28.4	4.5	0.0	357	53	5	0	528	79	6	0	442
5792+00	50.00	200.0	28.4	10.5	0.0	371	53	14	0	899	132	20	0	747
5792+50	50.00	173.6	28.4	28.0	0.0	346	53	36	0	1,245	184	56	0	1,005
5793+00	50.00	126.6	28.4	33.6	0.0	278	53	57	0	1,523	237	113	0	1,173
5793+50	50.00	97.1	28.4	42.2	0.0	207	53	70	0	1,730	289	183	0	1,258
5794+00	50.00	112.0	28.4	27.1	0.0	194	53	64	0	1,924	342	247	0	1,334
5794+50	50.00	103.3	28.4	21.3	0.0	199	53	45	0	2,123	395	292	0	1,436
5795+00	50.00	113.4	28.4	4.0	0.0	201	53	23	0	2,324	447	316	0	1,561
5795+50	50.00	140.8	28.4	0.1	0.0	235	53	4	0	2,559	500	319	0	1,740
5796+00	50.00	132.2	28.4	0.1	0.0	253	53	0	0	2,812	553	320	0	1,940
5796+50	50.00	133.2	28.4	0.1	2.0	246	53	0	2	3,058	605	320	2	2,133
5797+00	50.00	136.3	28.4	0.2	4.0	250	53	0	6	3,307	658	320	7	2,329
5797+50	50.00	121.5	28.4	1.1	6.0	239	53	1	9	3,546	710	321	17	2,514
5798+00	50.00	124.2	28.4	8.1	8.0	228	53	9	13	3,773	763	330	30	2,681
5798+50	50.00	145.7	28.4	12.6	10.0	250	53	19	17	4,023	816	349	46	2,859
5799+00	50.00	178.9	28.4	24.0	12.0	301	53	34	20	4,324	868	383	67	3,073
5799+50	50.00	122.9	28.4	18.9	14.0	279	53	40	24	4,603	921	423	91	3,260
5800+00	50.00	94.1	28.4	33.5	16.0	201	53	49	28	4,804	974	471	119	3,360
5800+50	50.00	52.0	28.4	41.3	18.0	135	53	69	31	4,939	1,026	540	150	3,373
5801+00	50.00	94.1	28.4	44.5	20.0	135	53	79	35	5,075	1,079	620	185	3,376
5801+50	50.00	37.5	28.4	20.2	22.0	122	53	60	39	5,197	1,131	680	224	3,386
5802+00	50.00	38.0	28.4	10.8	22.0	70	53	29	41	5,266	1,184	708	265	3,374
5802+50	50.00	42.6	28.4	4.1	22.0	75	53	14	41	5,341	1,237	722	306	3,382
5803+00	50.00	57.9	28.4	34.5	22.0	93	53	36	41	5,434	1,289	758	346	3,387
5803+50	50.00	50.7	28.4	2.4	16.5	101	53	34	36	5,535	1,342	792	382	3,401
5804+00	50.00	56.5	28.4	6.6	11.0	99	53	8	25	5,634	1,395	800	407	3,439
5804+50	50.00	69.7	28.4	11.6	5.5	117	53	17	15	5,751	1,447	817	423	3,486
5805+00	50.00	88.4	28.4	4.7	0.0	146	53	15	5	5,897	1,500	832	428	3,565
5805+50	50.00	127.2	28.4	9.3	0.0	200	53	13	0	6,097	1,552	845	428	3,699
5806+00	50.00	149.2	28.4	18.4	0.0	256	53	26	0	6,353	1,605	871	428	3,877
5806+50	50.00	170.6	28.4	9.0	0.0	296	53	25	0	6,649	1,658	896	428	4,095
5807+00	50.00	110.4	28.4	30.8	0.0	260	53	37	0	6,909	1,710	933	428	4,266
5807+50	50.00	157.6	28.4	6.5	0.0	248	53	35	0	7,157	1,763	968	428	4,427
5808+00	50.00	168.8	28.4	4.4	0.0	302	53	10	0	7,459	1,816	978	428	4,666
5808+50	50.00	181.8	28.4	2.5	0.0	325	53	6	0	7,784	1,868	984	428	4,932
5809+00	50.00	200.8	28.4	1.3	0.0	354	53	4	0	8,138	1,921	988	428	5,230
5809+50	50.00	137.8	28.4	0.2	0.0	314	53	1	0	8,452	1,973	989	428	5,489
5810+00	50.00	131.8	28.4	0.3	0.0	250	53	0	0	8,701	2,026	990	428	5,686
5810+50	50.00	138.8	28.4	0.0	0.0	251	53	0	0	8,952	2,079	990	428	5,884
5811+00	50.00	143.0	28.4	0.0	0.0	261	53	0	0	9,213	2,131	990	428	6,092
5811+50	50.00	142.1	28.4	12.2	0.0	264	53	11	0	9,477	2,184	1,001	428	6,292
5812+00	50.00	159.6	28.4	0.0	0.0	279	53	11	0	9,756	2,236	1,012	428	6,507
5812+50	50.00	153.2	28.4	1.0	0.0	290	53	1	0	10,046	2,289	1,013	428	6,743
5813+00	50.00	150.5	28.4	0.2	0.0	281	53	1	0	10,327	2,342	1,014	428	6,971
5813+50	50.00	155.7	28.4	0.0	0.0	284	53	0	0	10,611	2,394	1,015	428	7,202
5814+00	50.00	161.3	28.4	0.0	0.0	294	53	0	0	10,904	2,447	1,015	428	7,443
5814+50	50.00	163.7	28.4	0.0	0.0	301	53	0	0	11,205	2,500	1,015	428	7,691

(CONTINUED ON NEXT SHEET)

(CONTINUED FROM PREVIOUS SHEET)

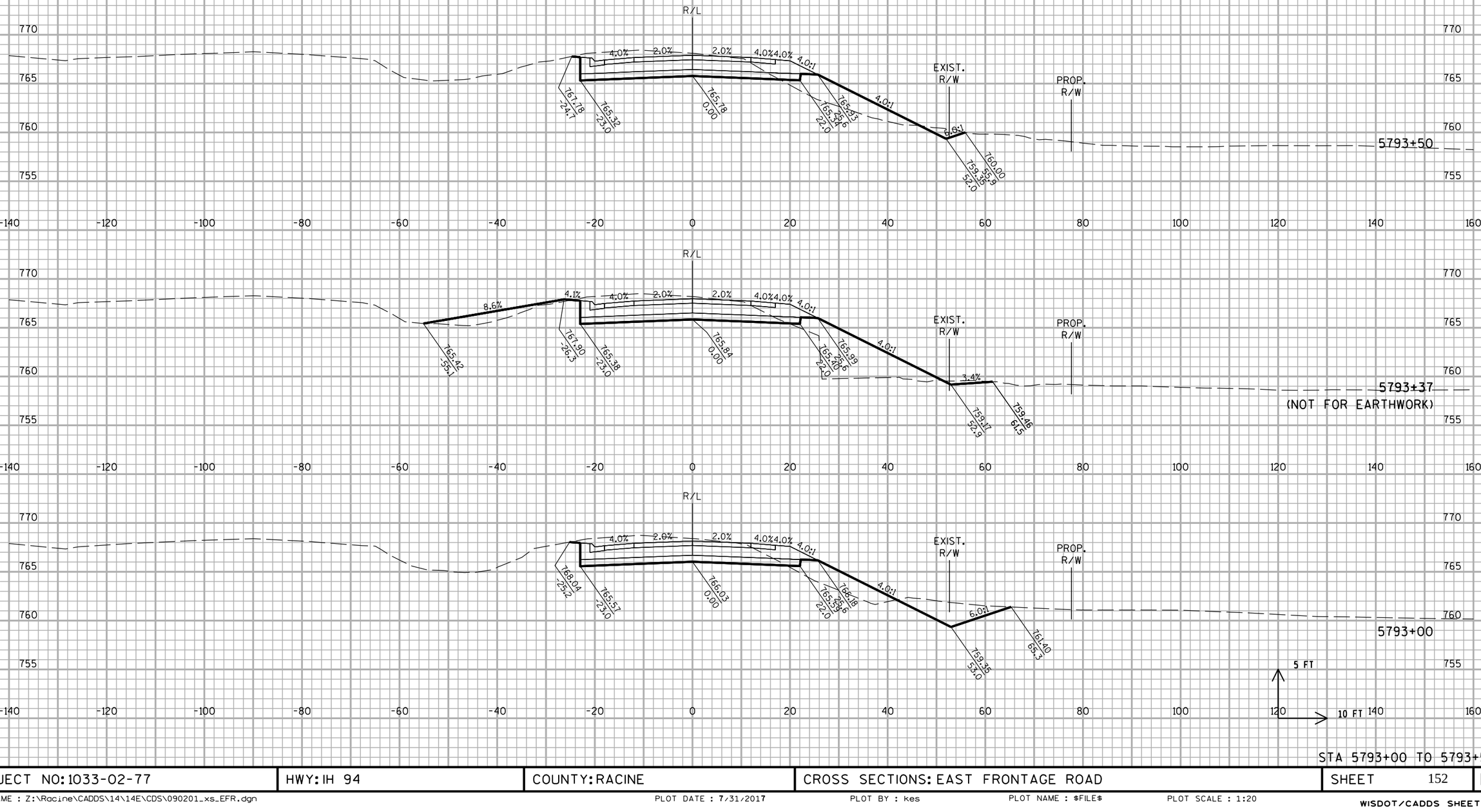
		EAST FRONTAGE ROAD												
		AREA (SF)				Incremental Vol (CY) (Unadjusted)				Cumulative Vol (CY) (Unadjusted)				Unadjusted
STATION	Distance	Cut	Salvaged/Unusable Pavement Material	Fill	Existing Pavement EBS	Cut	Salvaged/Unusable Pavement Material	Fill	Existing Pavement EBS	Cut 1.00	Salvaged/Unusable Pavement Material	Fill 1.00	Existing Pavement EBS	Mass Ordinate
5815+00	50.00	159.7	28.4	2.9	0.0	299	53	3	0	11,505	2,552	1,017	428	7,935
5815+50	50.00	160.0	28.4	2.0	0.0	296	53	5	0	11,801	2,605	1,022	428	8,174
5816+00	50.00	161.7	28.4	0.2	0.0	298	53	2	0	12,098	2,657	1,024	428	8,417
5816+50	50.00	164.9	28.4	0.1	0.0	302	53	0	0	12,401	2,710	1,024	428	8,667
5817+00	50.00	140.3	28.4	1.3	0.0	283	53	1	0	12,683	2,763	1,025	428	8,895
5817+50	50.00	125.8	28.4	2.8	0.0	246	53	4	0	12,930	2,815	1,029	428	9,085
5818+00	50.00	107.4	28.4	6.2	0.0	216	53	8	0	13,146	2,868	1,038	428	9,240
5818+50	50.00	107.6	28.4	7.8	0.0	199	53	13	0	13,345	2,921	1,051	428	9,374
5819+00	50.00	93.4	28.4	8.7	0.0	186	53	15	0	13,531	2,973	1,066	428	9,492
5819+50	50.00	112.9	28.4	1.0	0.0	191	53	9	0	13,722	3,026	1,075	428	9,621
5820+00	50.00	98.4	28.4	6.0	5.0	196	53	6	5	13,918	3,078	1,081	432	9,758
5820+50	50.00	108.5	28.4	0.0	10.0	192	53	6	14	14,109	3,131	1,087	446	9,891
5821+00	50.00	61.6	28.4	16.9	15.0	158	53	16	23	14,267	3,184	1,103	469	9,980
5821+50	50.00	42.2	28.4	33.5	20.0	96	53	47	32	14,363	3,236	1,149	502	9,977
5822+00	50.00	32.9	28.4	41.6	25.0	70	53	70	42	14,432	3,289	1,219	544	9,925
5822+50	50.00	21.7	28.4	47.5	30.0	51	53	83	51	14,483	3,342	1,301	594	9,840
5823+00	50.00	17.5	28.4	52.4	30.0	36	53	93	56	14,519	3,394	1,394	650	9,731
5823+50	50.00	32.0	28.4	50.7	30.0	46	53	95	56	14,565	3,447	1,489	706	9,629
5824+00	50.00	27.0	28.4	53.9	30.0	55	53	97	56	14,620	3,499	1,586	761	9,534
5824+50	50.00	39.2	28.4	55.0	30.0	61	53	101	56	14,681	3,552	1,687	817	9,442
5825+00	50.00	111.5	28.4	47.9	30.0	140	53	95	56	14,820	3,605	1,782	872	9,434
5825+50	50.00	130.2	28.4	25.2	30.0	224	53	68	56	15,044	3,657	1,850	928	9,537
5826+00	50.00	209.9	28.4	49.1	20.0	315	53	69	46	15,359	3,710	1,919	974	9,731
5826+50	50.00	231.4	28.4	40.9	10.0	409	53	83	28	15,768	3,763	2,002	1,002	10,003
5827+00	50.00	271.6	28.4	43.1	0.0	466	53	78	9	16,234	3,815	2,080	1,011	10,339
5827+50	50.00	333.5	28.4	38.6	0.0	560	53	76	0	16,794	3,868	2,155	1,011	10,771
5828+00	50.00	382.3	28.4	14.2	0.0	663	53	49	0	17,457	3,920	2,204	1,011	11,332
5828+50	50.00	442.6	28.4	0.0	0.0	764	53	13	0	18,220	3,973	2,217	1,011	12,030
5829+00	50.00	502.4	28.4	0.6	0.0	875	53	1	0	19,095	4,026	2,218	1,011	12,852
5829+50	50.00	568.3	28.4	0.0	0.0	991	53	1	0	20,087	4,078	2,219	1,011	13,790
5830+00	50.00	604.7	28.4	0.0	0.0	1,086	53	0	0	21,173	4,131	2,219	1,011	14,823
5830+50	50.00	551.6	28.4	0.0	0.0	1,071	53	0	0	22,244	4,184	2,219	1,011	15,841
5831+00	50.00	507.1	28.4	0.0	0.0	980	53	0	0	23,224	4,236	2,219	1,011	16,769
5831+50	50.00	442.4	28.4	0.0	0.0	879	53	0	0	24,103	4,289	2,219	1,011	17,596
5832+00	50.00	349.0	28.4	0.0	0.0	733	53	0	0	24,836	4,341	2,219	1,011	18,276
5832+50	50.00	315.9	28.4	0.0	0.0	616	53	0	0	25,451	4,394	2,219	1,011	18,839
5833+00	50.00	309.1	28.4	0.0	0.0	579	53	0	0	26,030	4,447	2,219	1,011	19,365
5833+50	50.00	270.0	28.4	0.0	0.0	536	53	0	0	26,566	4,499	2,219	1,011	19,848
5834+00	50.00	264.9	28.4	0.0	0.0	495	53	0	0	27,062	4,552	2,219	1,011	20,291
5834+50	50.00	220.7	28.4	0.0	0.0	450	53	0	0	27,511	4,605	2,219	1,011	20,688
5835+00	50.00	220.2	28.4	0.0	0.0	408	53	0	0	27,919	4,657	2,219	1,011	21,044
5835+50	50.00	167.4	28.4	0.0	0.0	359	53	0	0	28,278	4,710	2,219	1,011	21,350
5836+00	50.00	118.3	28.4	0.0	0.0	265	53	0	0	28,543	4,762	2,219	1,011	21,562
5836+48	47.59	84.2	28.4	0.0	0.0	178	50	0	0	28,721	4,813	2,219	1,011	21,690
EAST FRONTAGE ROAD TOTAL						**28,721**	**4,813**	**2,219**	**1,011**	**28,721**	**4,813**	**2,219**	**1,011**	**21,690**



PROJECT NO: 1033-02-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 151	E

FILE NAME : Z:\Racine\CADDS\14\14E\CDS\090201_xs_EFR.dgn PLOT DATE : 7/31/2017 PLOT BY : kes PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

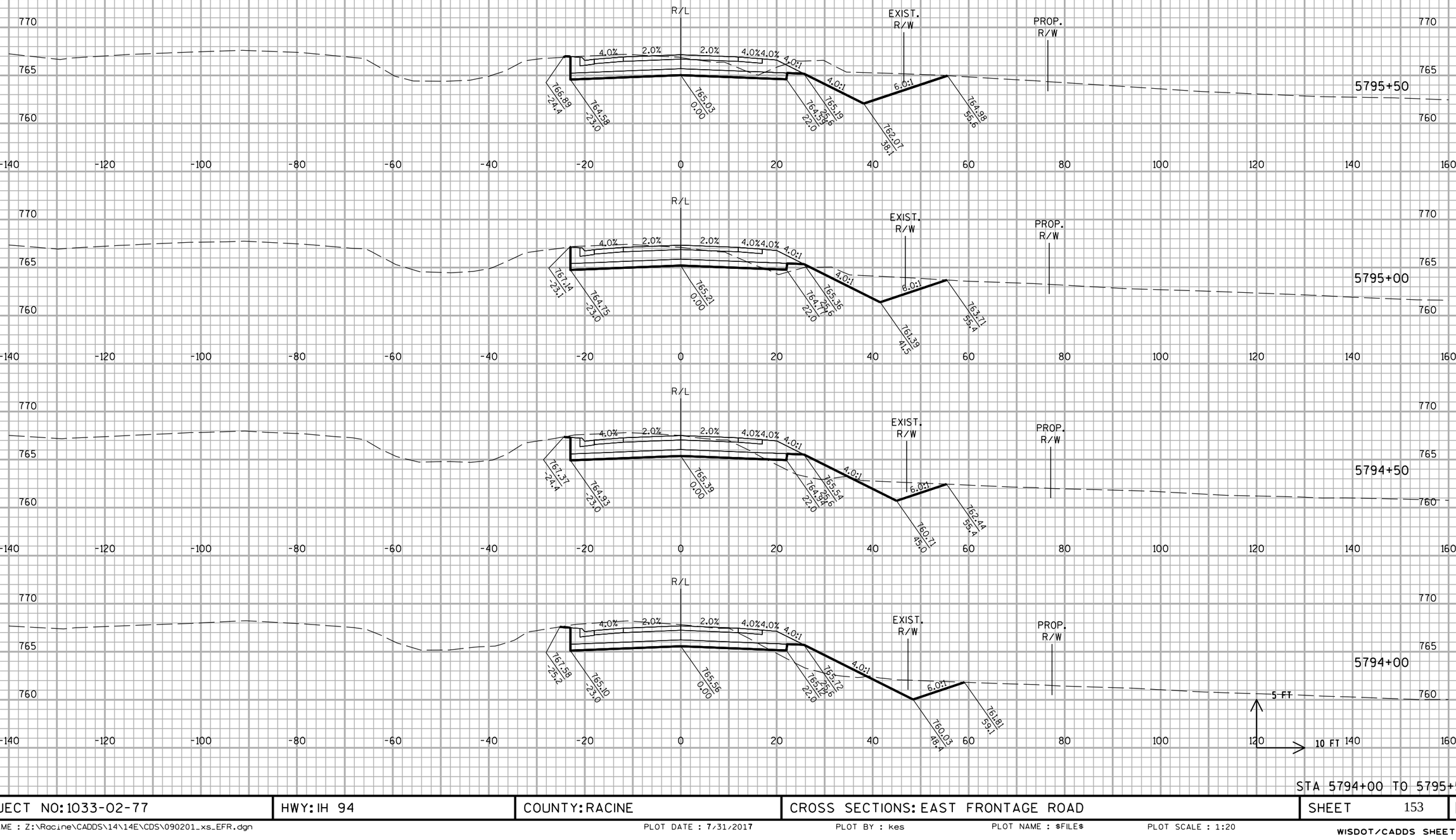


STA 5793+00 TO 5793+50

PROJECT NO: 1033-02-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 152	E

FILE NAME : Z:\Racine\CADDS\14\14E\CDS\090201_xs_EFR.dgn PLOT DATE : 7/31/2017 PLOT BY : kes PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



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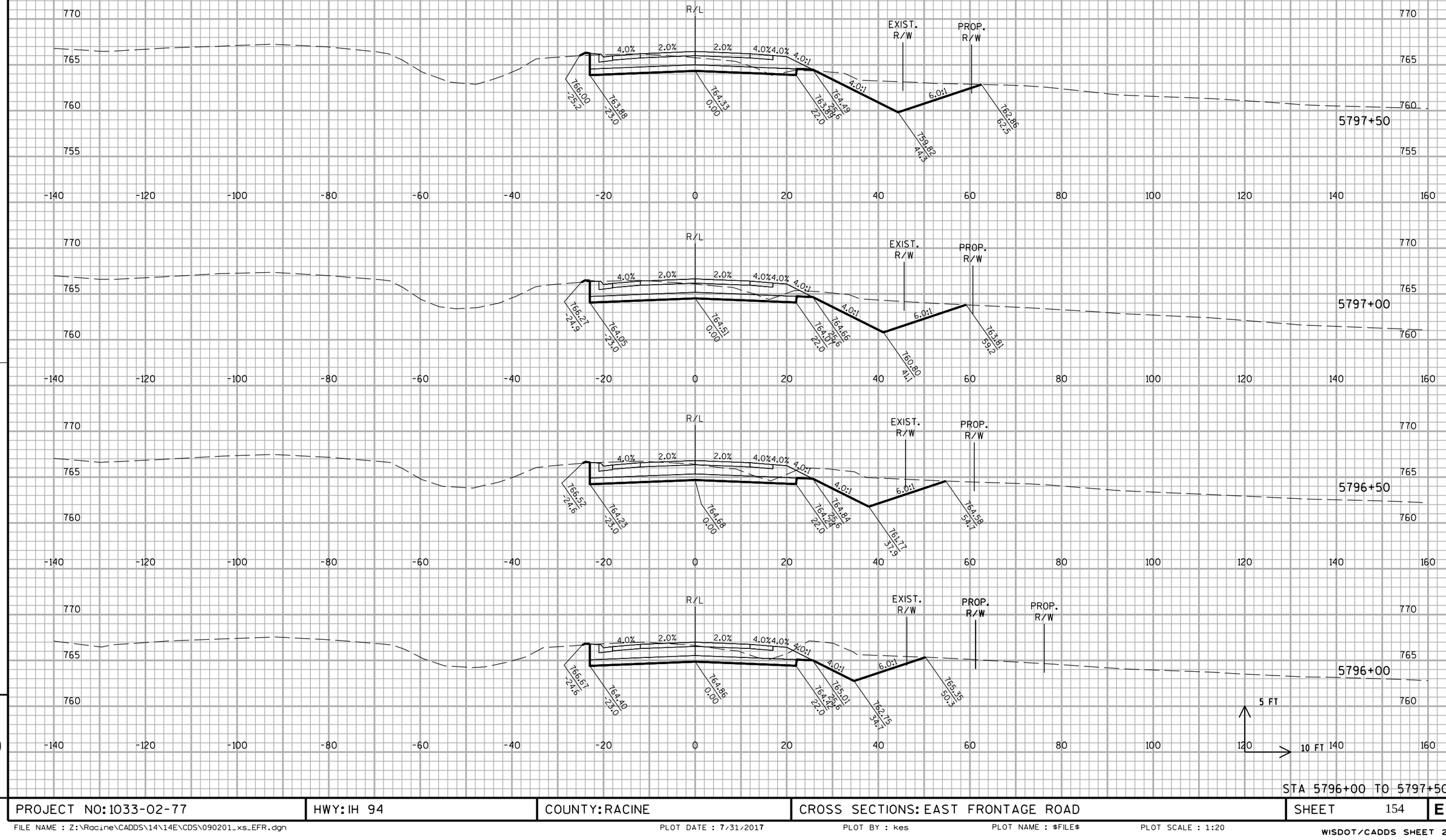
STA 5794+00 TO 5795+50

PROJECT NO: 1033-02-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 153	E

FILE NAME : Z:\Racine\CADDS\14\14E\CDS\090201_xs_EFR.dgn PLOT DATE : 7/31/2017 PLOT BY : kes PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



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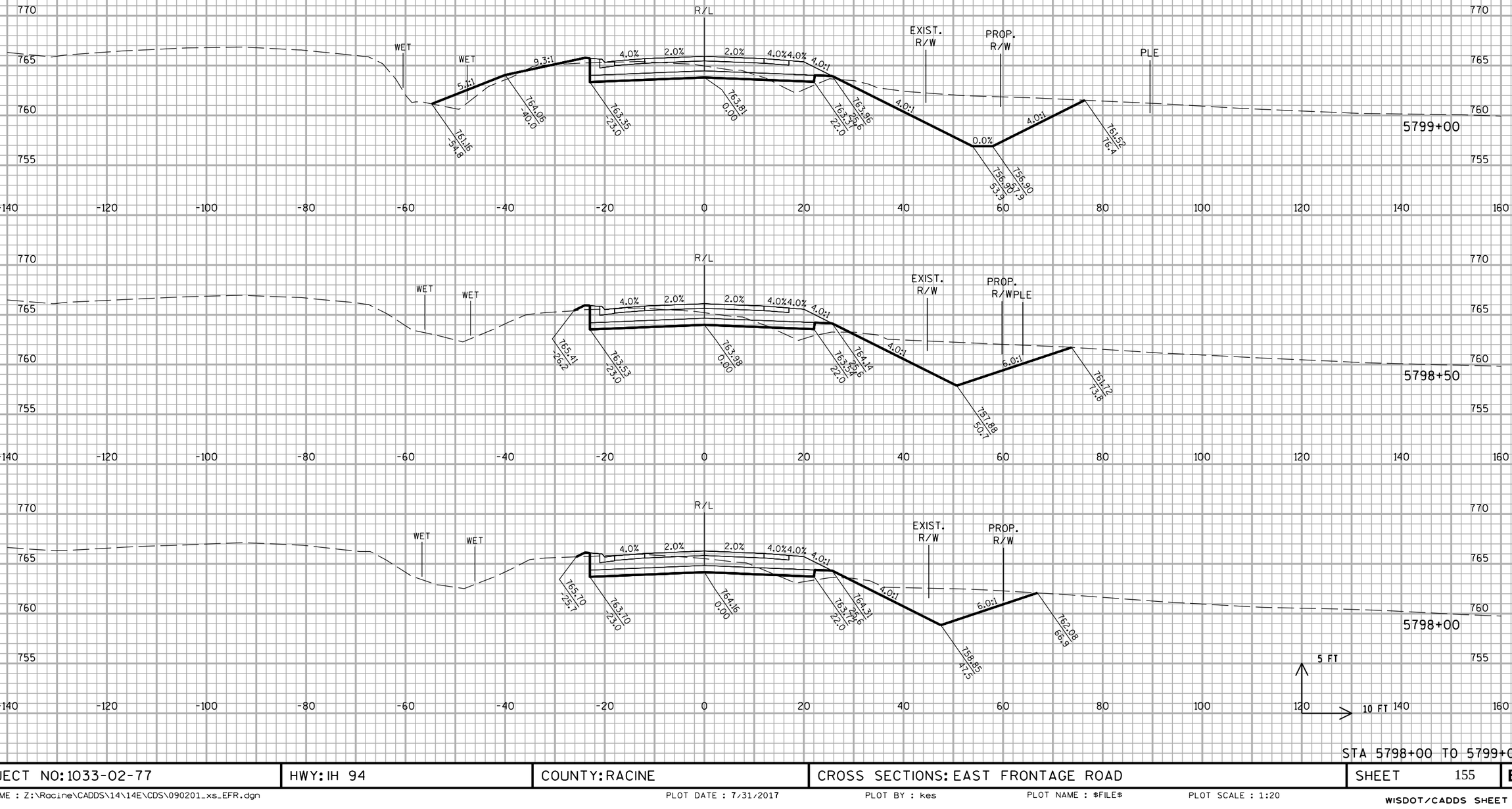
STA 5796+00 TO 5797+50

PROJECT NO: 1033-02-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 154	E



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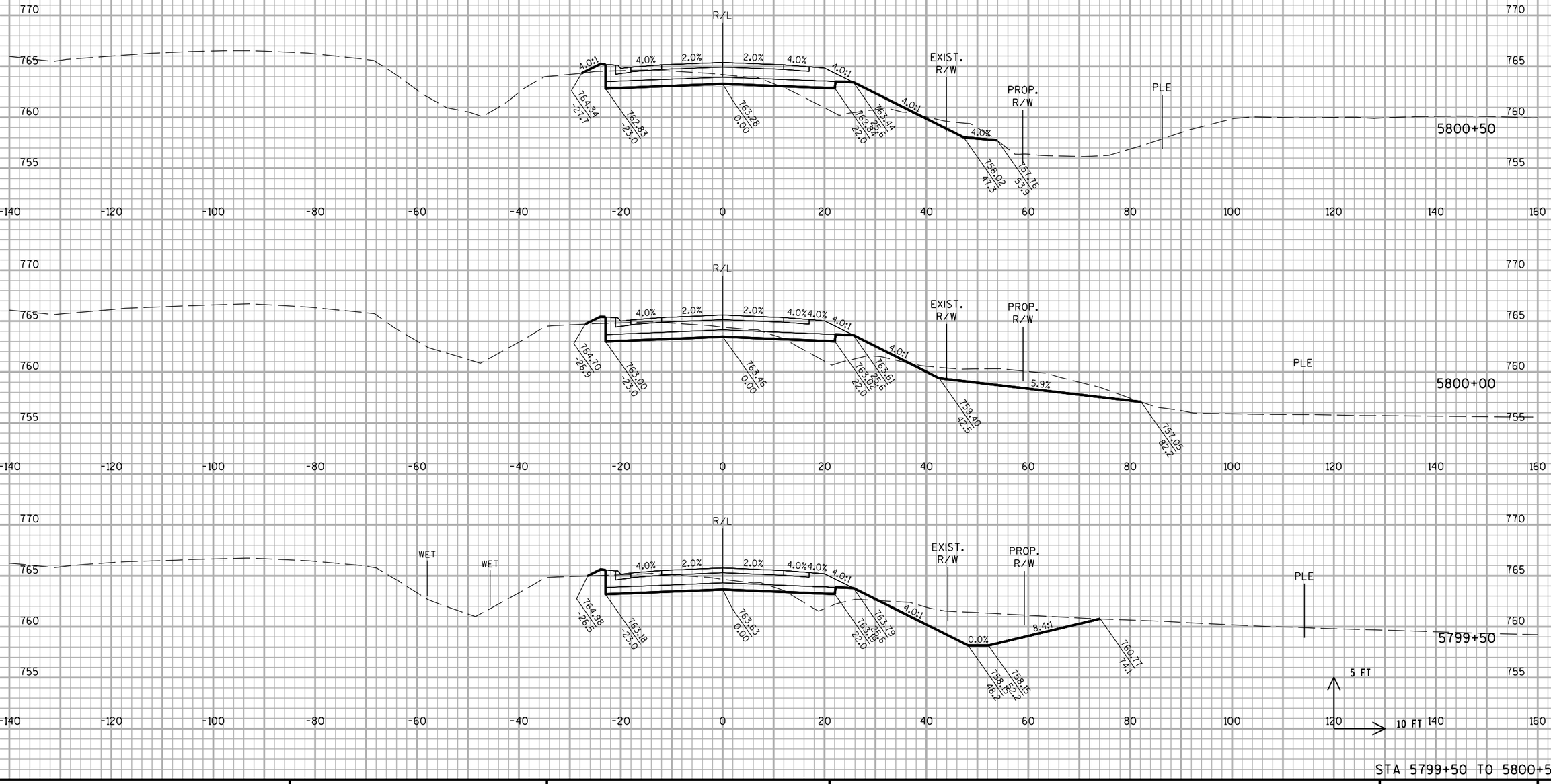
PROJECT NO: 1033-02-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 155	E

STA 5798+00 TO 5799+00

9

FILE NAME : Z:\Racine\CADDS\14\14E\CDS\090201_xs_EFR.dgn PLOT DATE : 7/31/2017 PLOT BY : kes PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

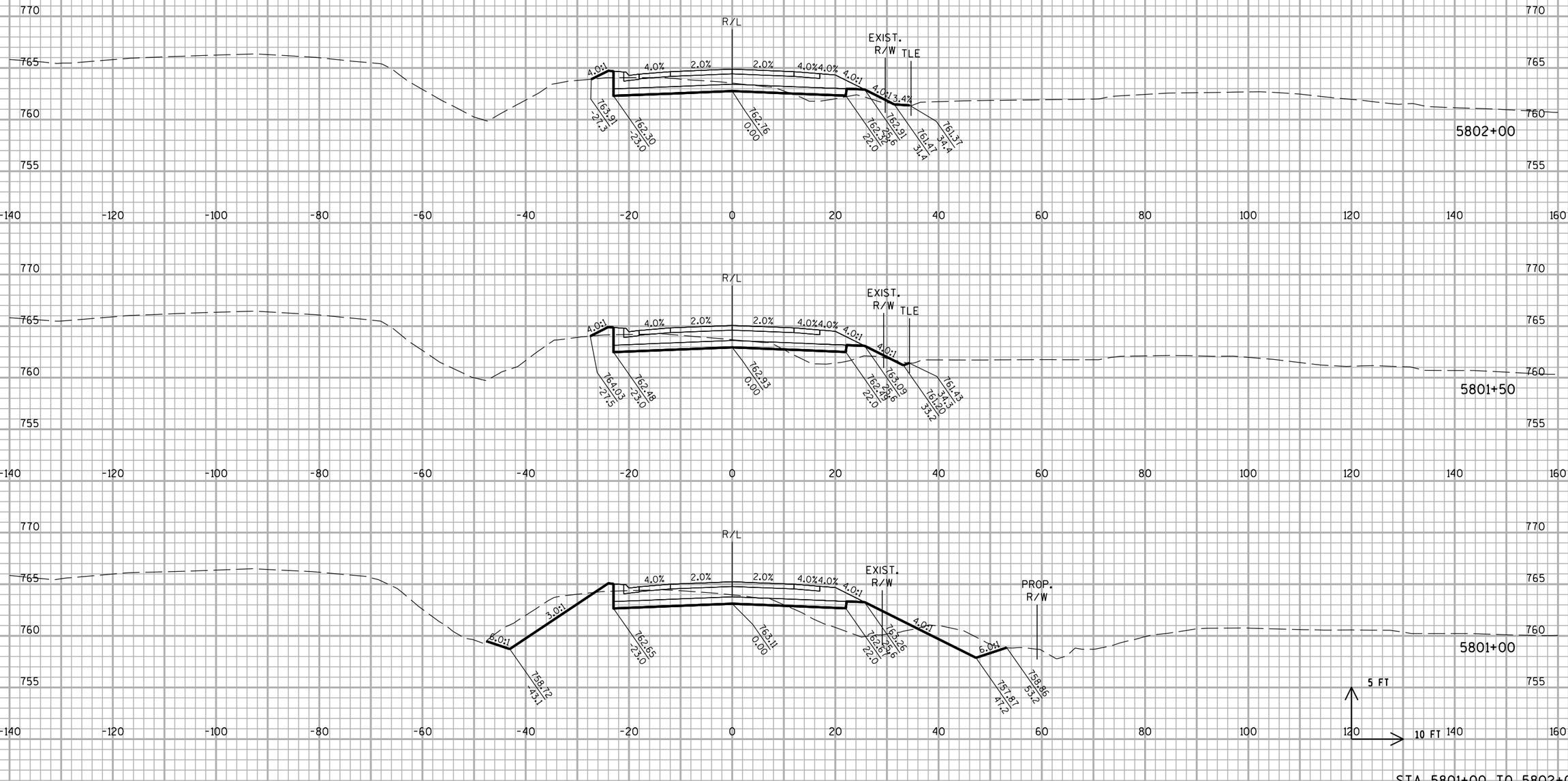


STA 5799+50 TO 5800+50

PROJECT NO: 1033-02-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 156	E

FILE NAME : Z:\Racine\CADDS\14\14E\CDS\090201_xs_EFR.dgn PLOT DATE : 7/31/2017 PLOT BY : kes PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

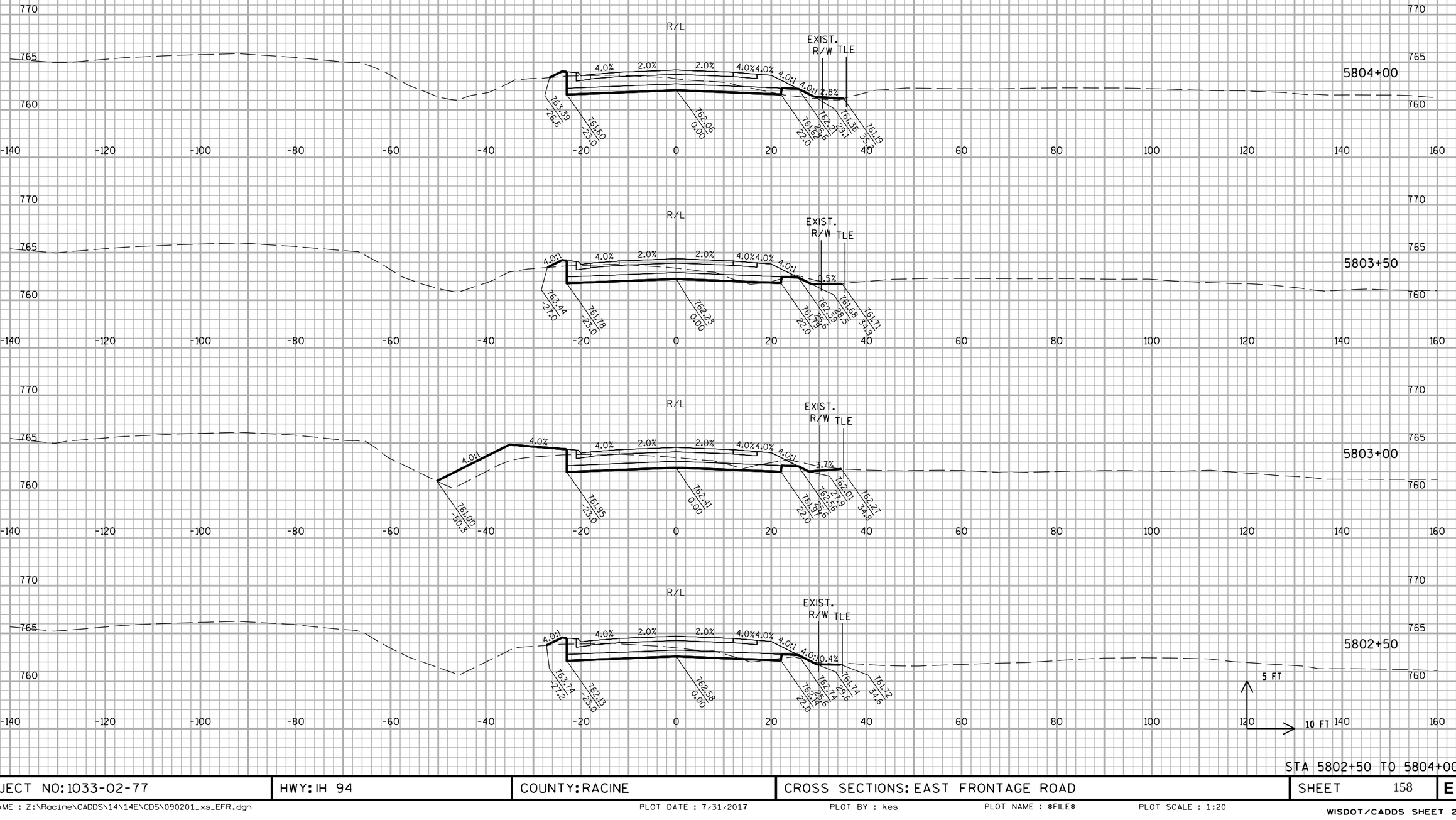


STA 5801+00 TO 5802+00

PROJECT NO: 1033-02-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 157	E

FILE NAME : Z:\Racine\CADDS\14\14E\CDS\090201_xs_EFR.dgn PLOT DATE : 7/31/2017 PLOT BY : kes PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



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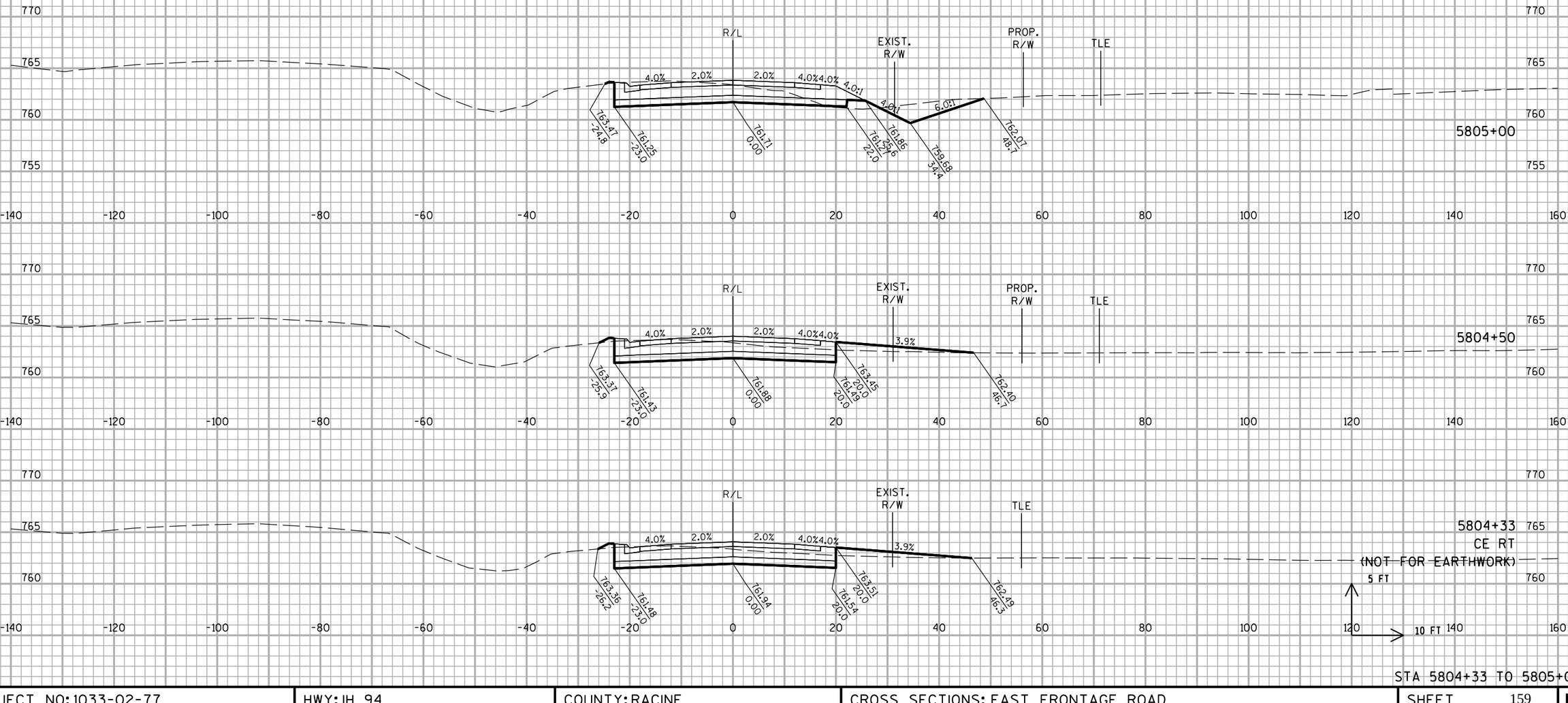
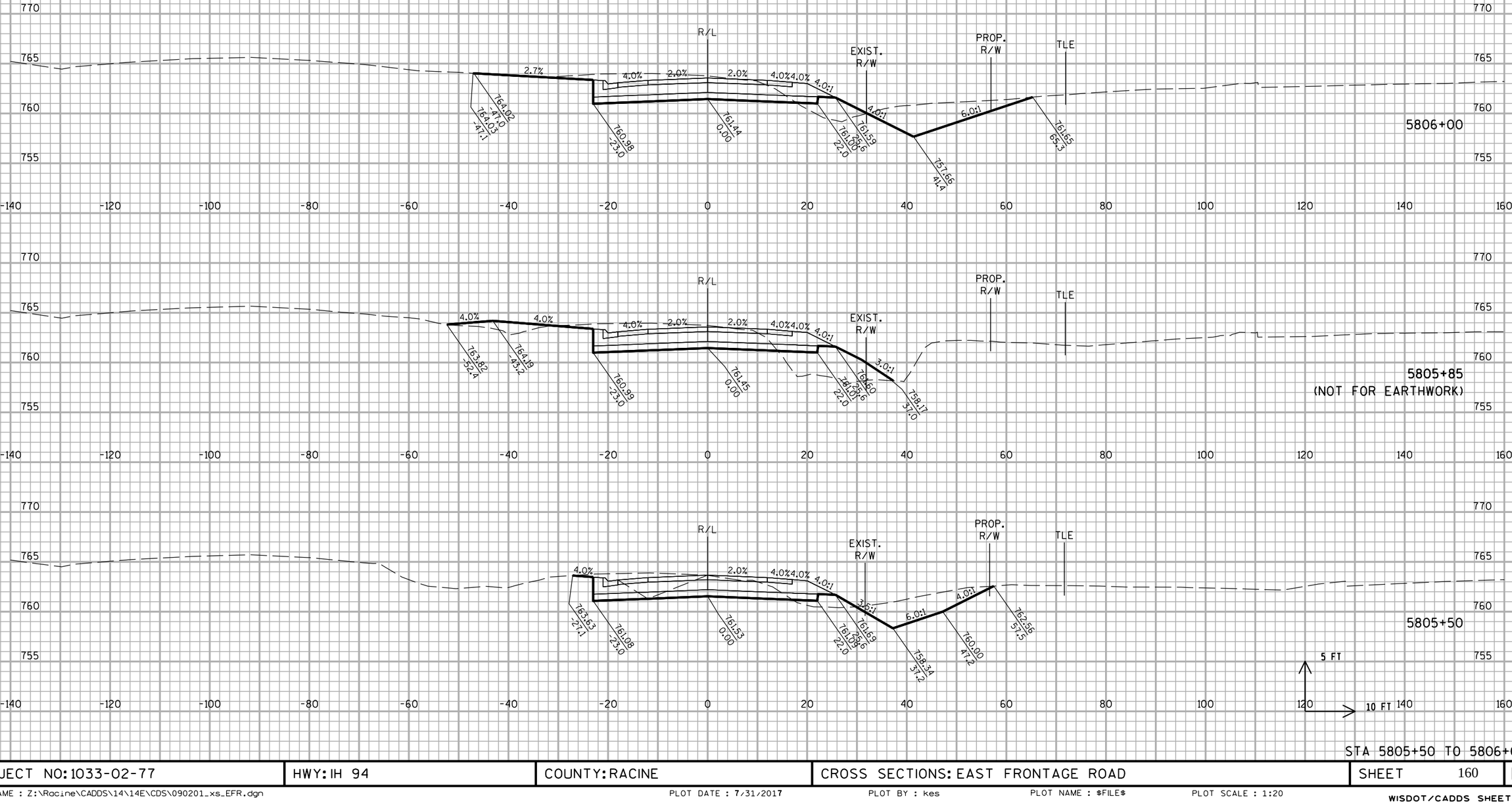
STA 5802+50 TO 5804+00

PROJECT NO: 1033-02-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 158	E



STA 5804+33 TO 5805+00

PROJECT NO: 1033-02-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 159	E



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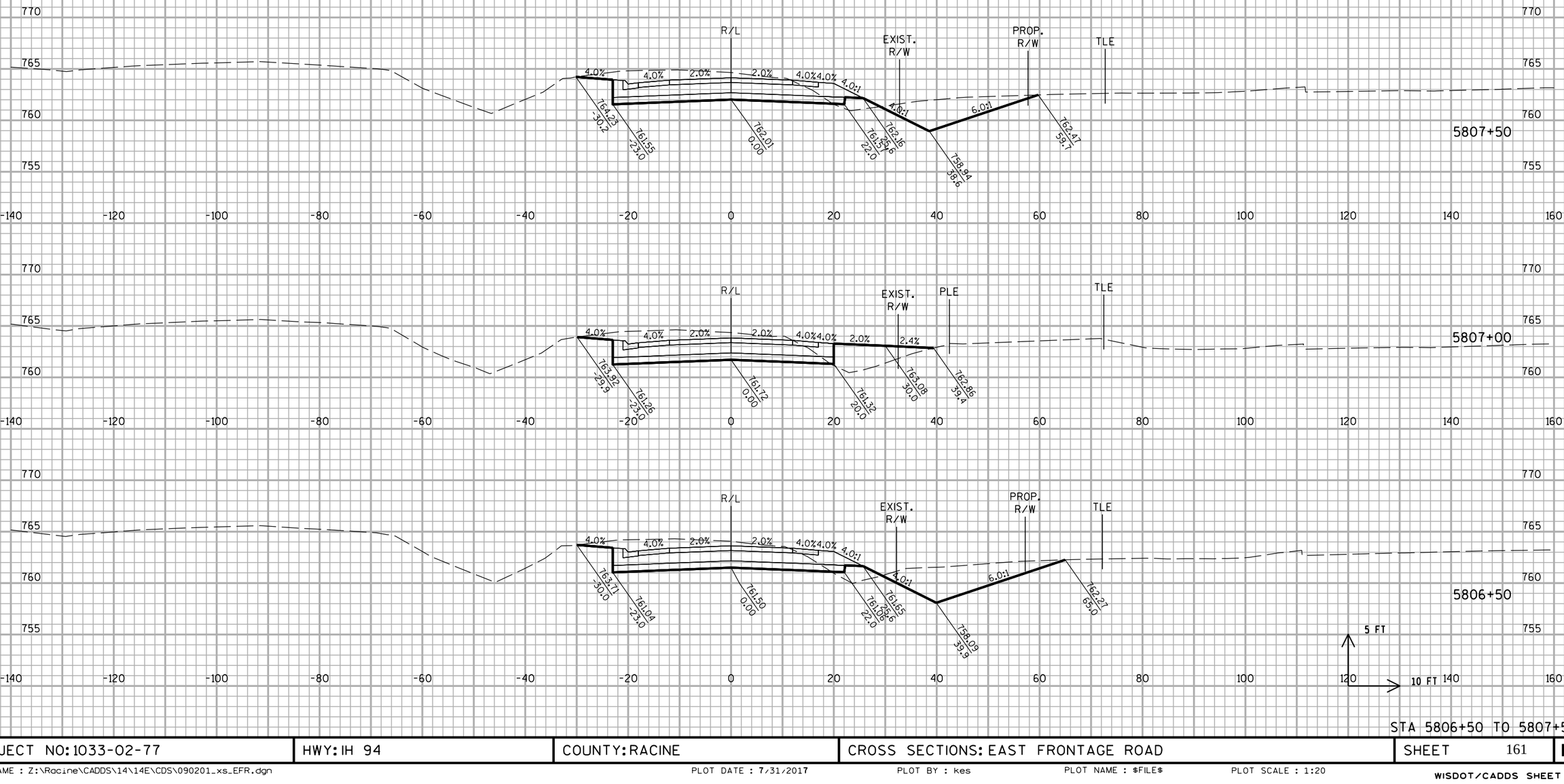
PROJECT NO: 1033-02-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 160	E

FILE NAME : Z:\Racine\CADDS\14\14E\CDS\090201_xs_EFR.dgn PLOT DATE : 7/31/2017 PLOT BY : kes PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



STA 5806+50 TO 5807+50

PROJECT NO: 1033-02-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 161	E

9

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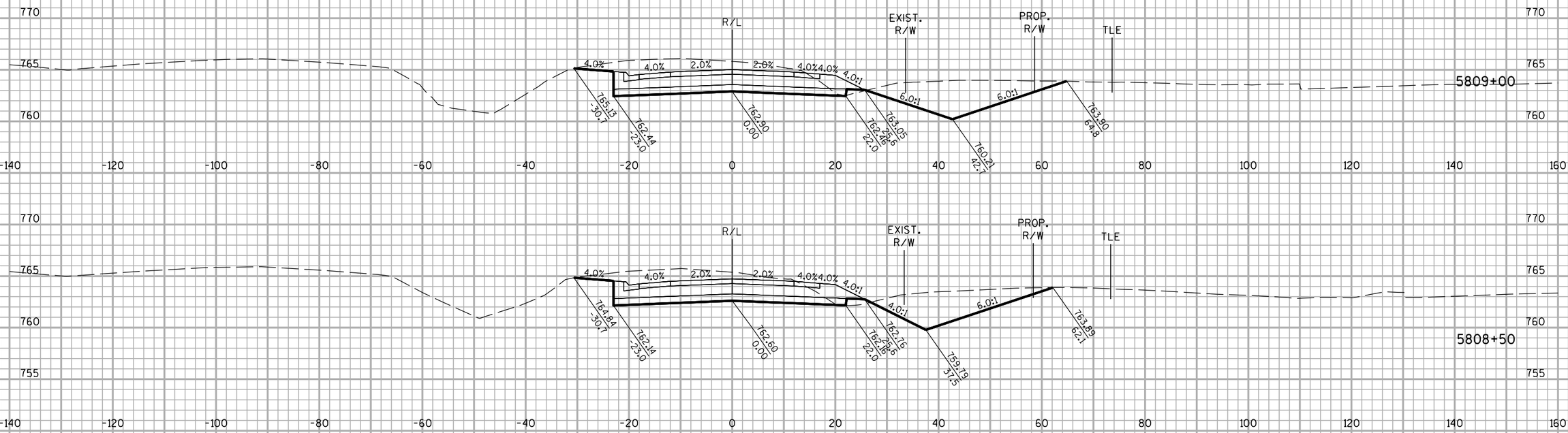
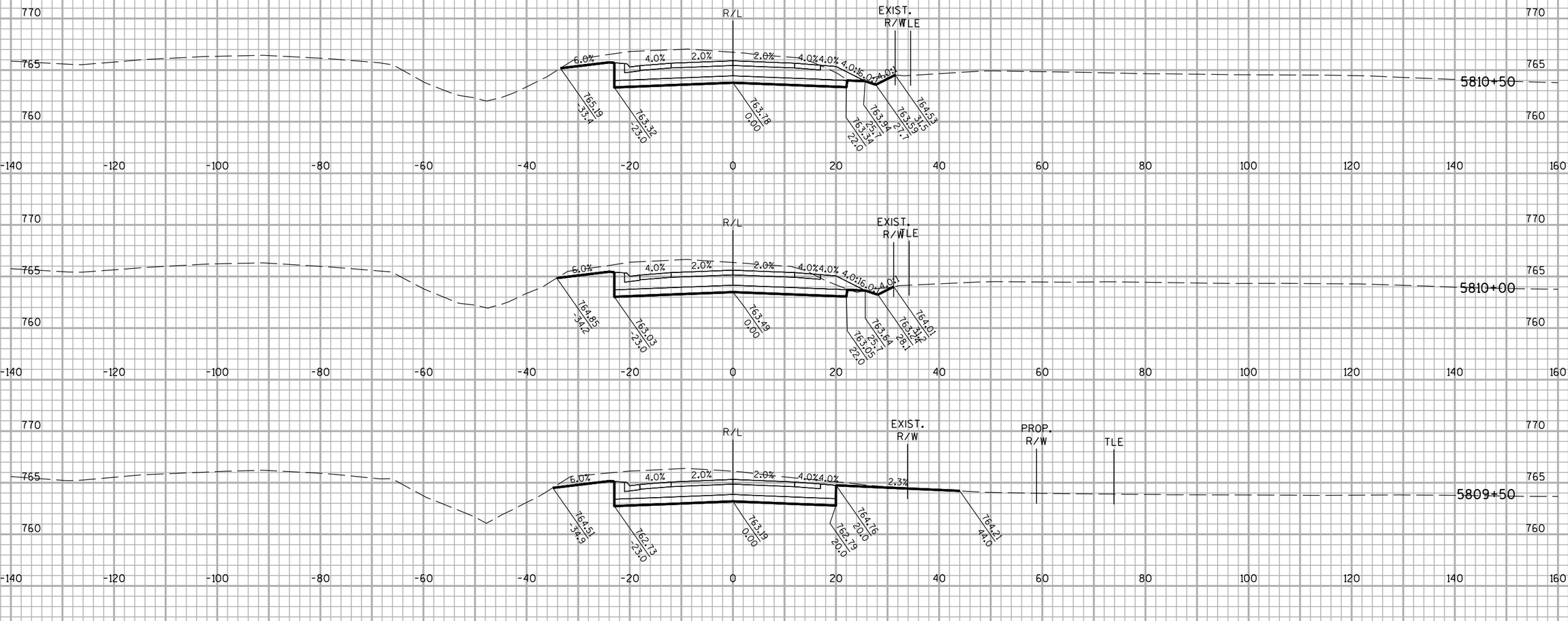


STA 5808+00 TO 5809+00

PROJECT NO: 1033-02-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 162	E

FILE NAME : Z:\Racine\CADDS\14\14E\CDS\090201_xs_EFR.dgn PLOT DATE : 7/31/2017 PLOT BY : kes PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



9

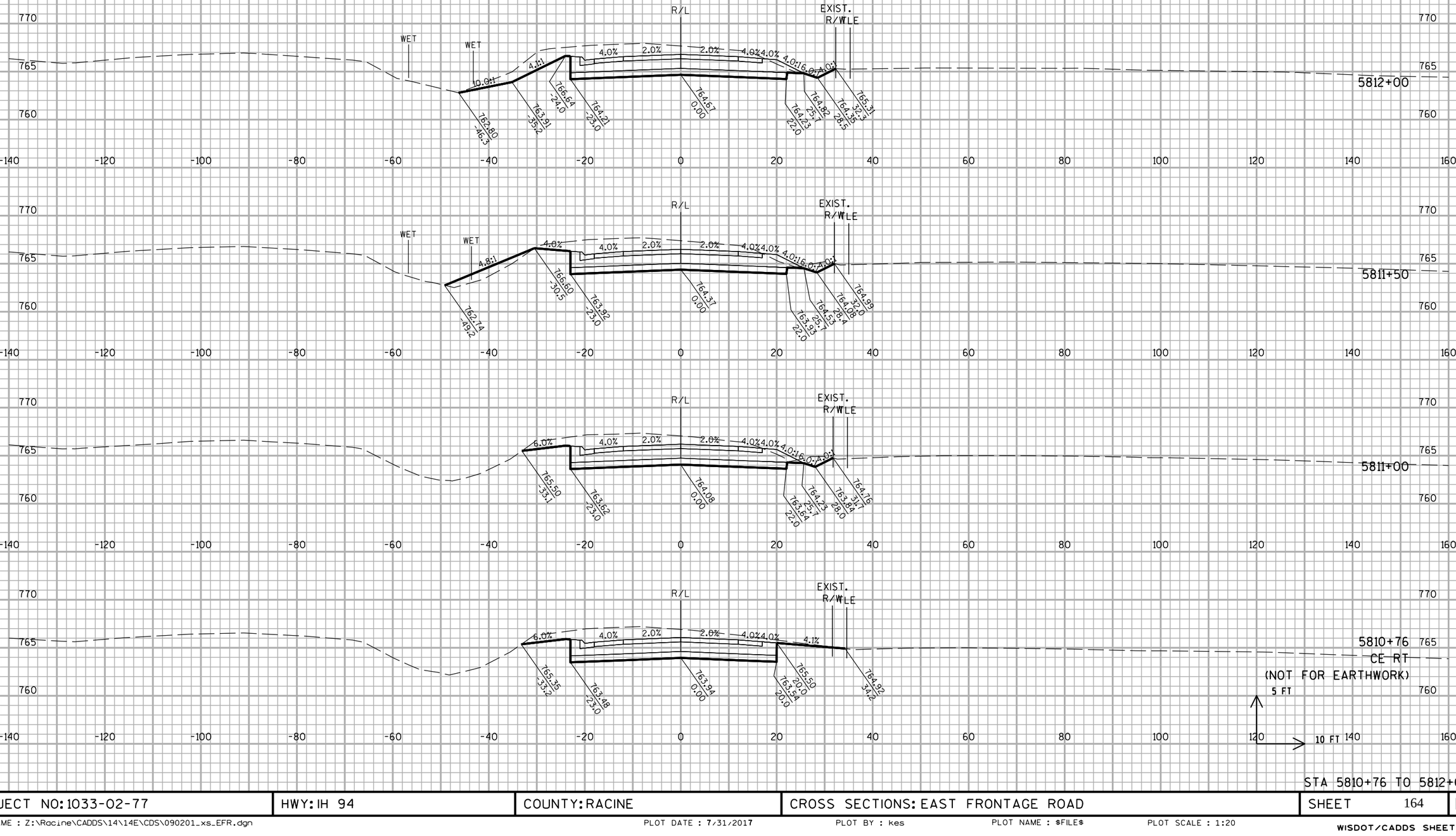
9

STA 5809+33 TO 5810+50

PROJECT NO: 1033-02-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 163	E

FILE NAME : Z:\Racine\CADDS\14\14E\CDS\090201_xs_EFR.dgn PLOT DATE : 7/31/2017 PLOT BY : kes PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



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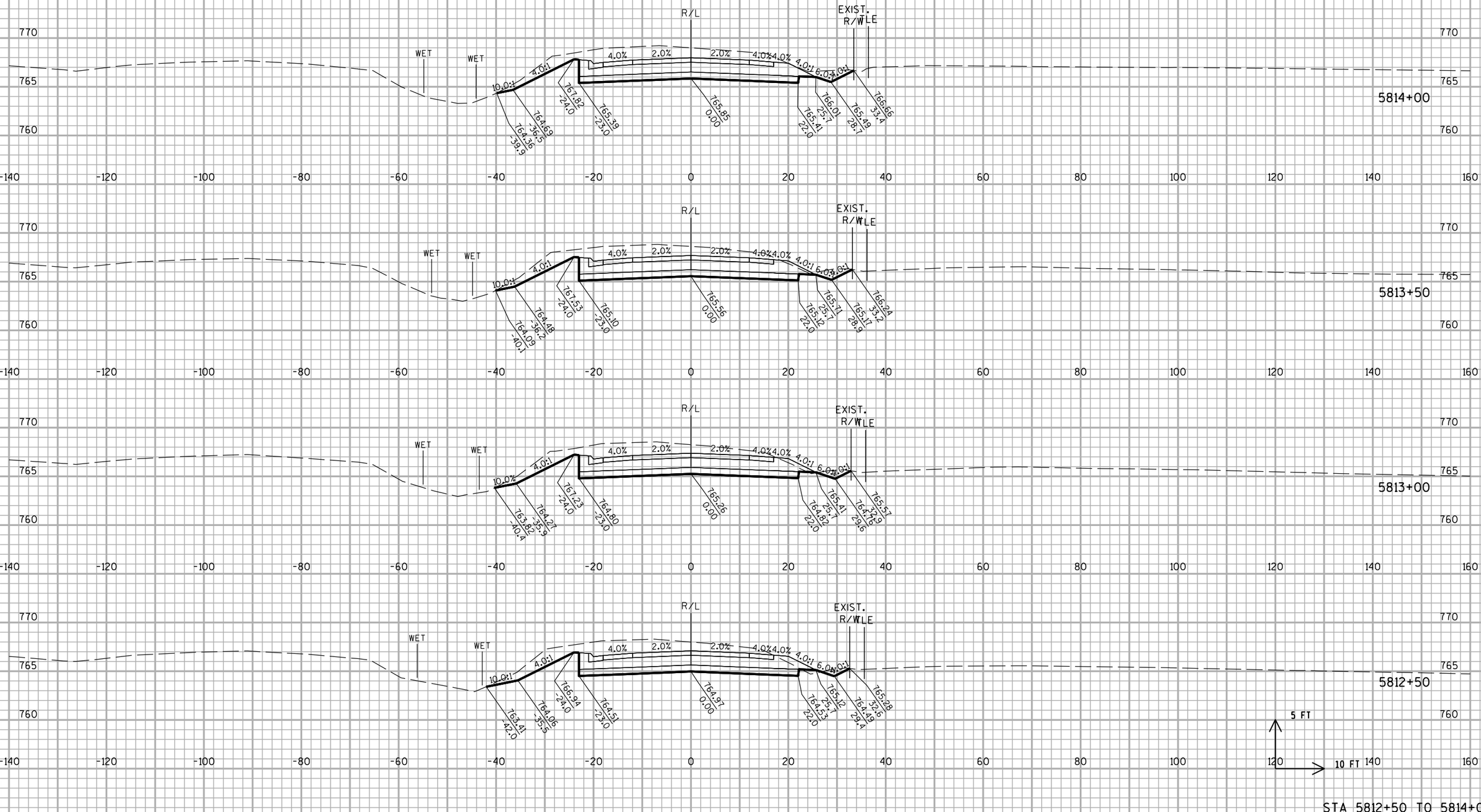
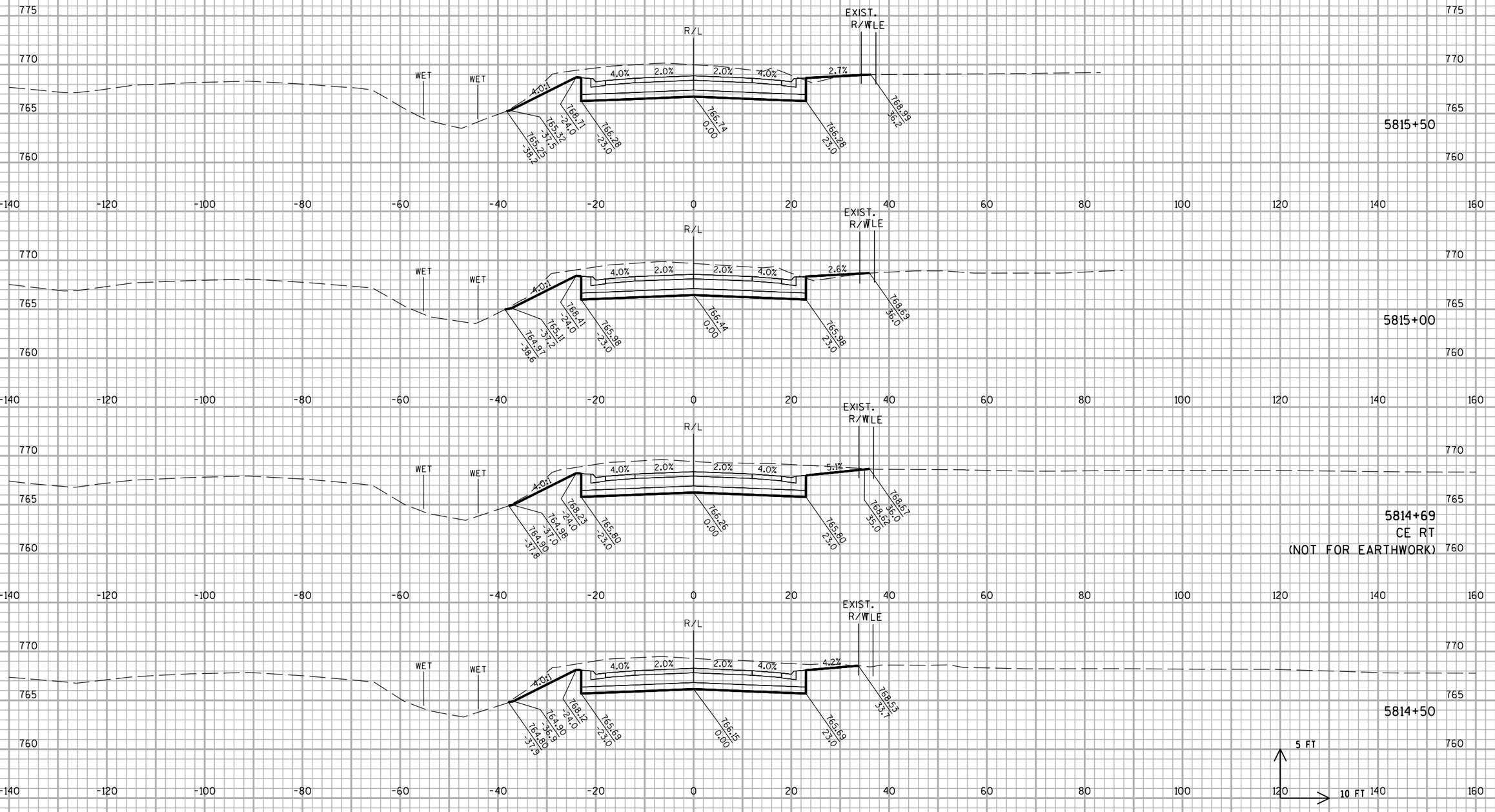
PROJECT NO: 1033-02-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 164	E

STA 5810+76 TO 5812+00



STA 5812+50 TO 5814+00

PROJECT NO: 1033-02-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 165	E

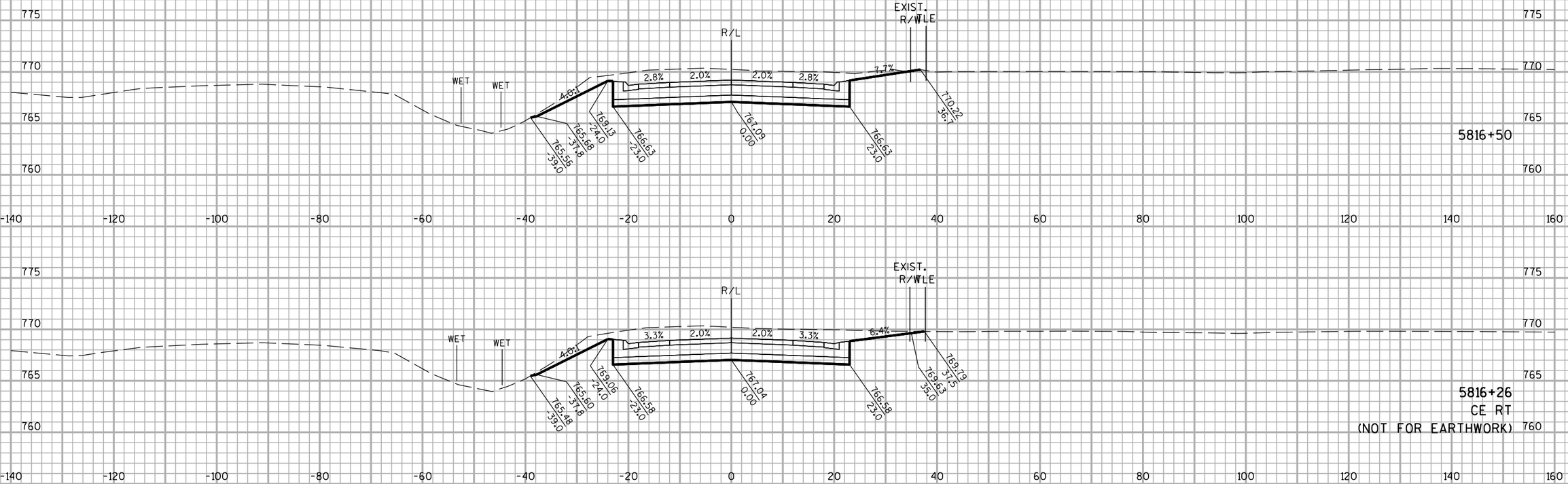


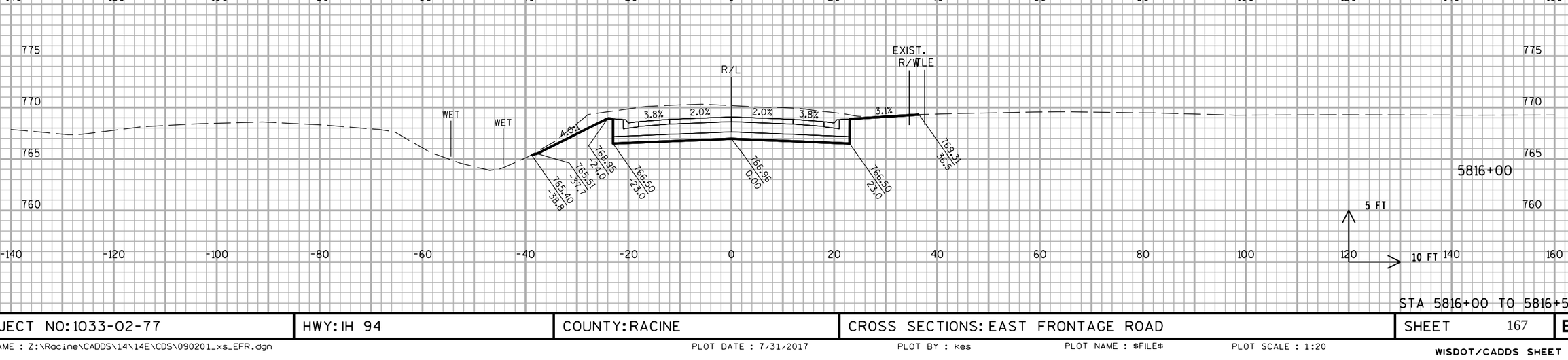
STA 5814+50 TO 5815+50

PROJECT NO: 1033-02-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 166	E

FILE NAME : Z:\Racine\CADDS\14\14E\CDS\090201_xs_EFR.dgn PLOT DATE : 7/31/2017 PLOT BY : kes PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21





9

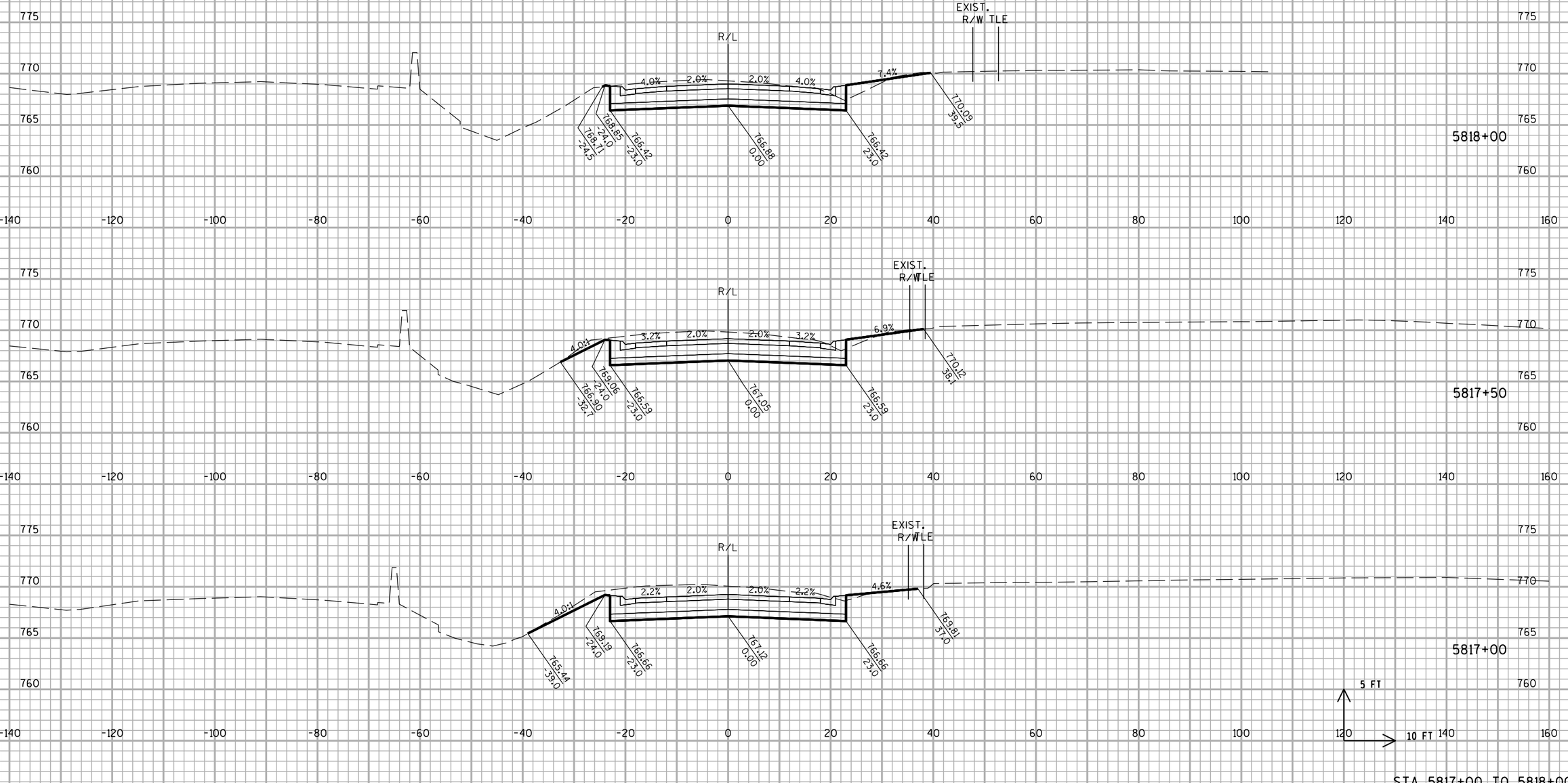
9

STA 5816+00 TO 5816+50

PROJECT NO: 1033-02-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 167	E

FILE NAME : Z:\Racine\CADDS\14\14E\CDS\090201_xs_EFR.dgn PLOT DATE : 7/31/2017 PLOT BY : kes PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

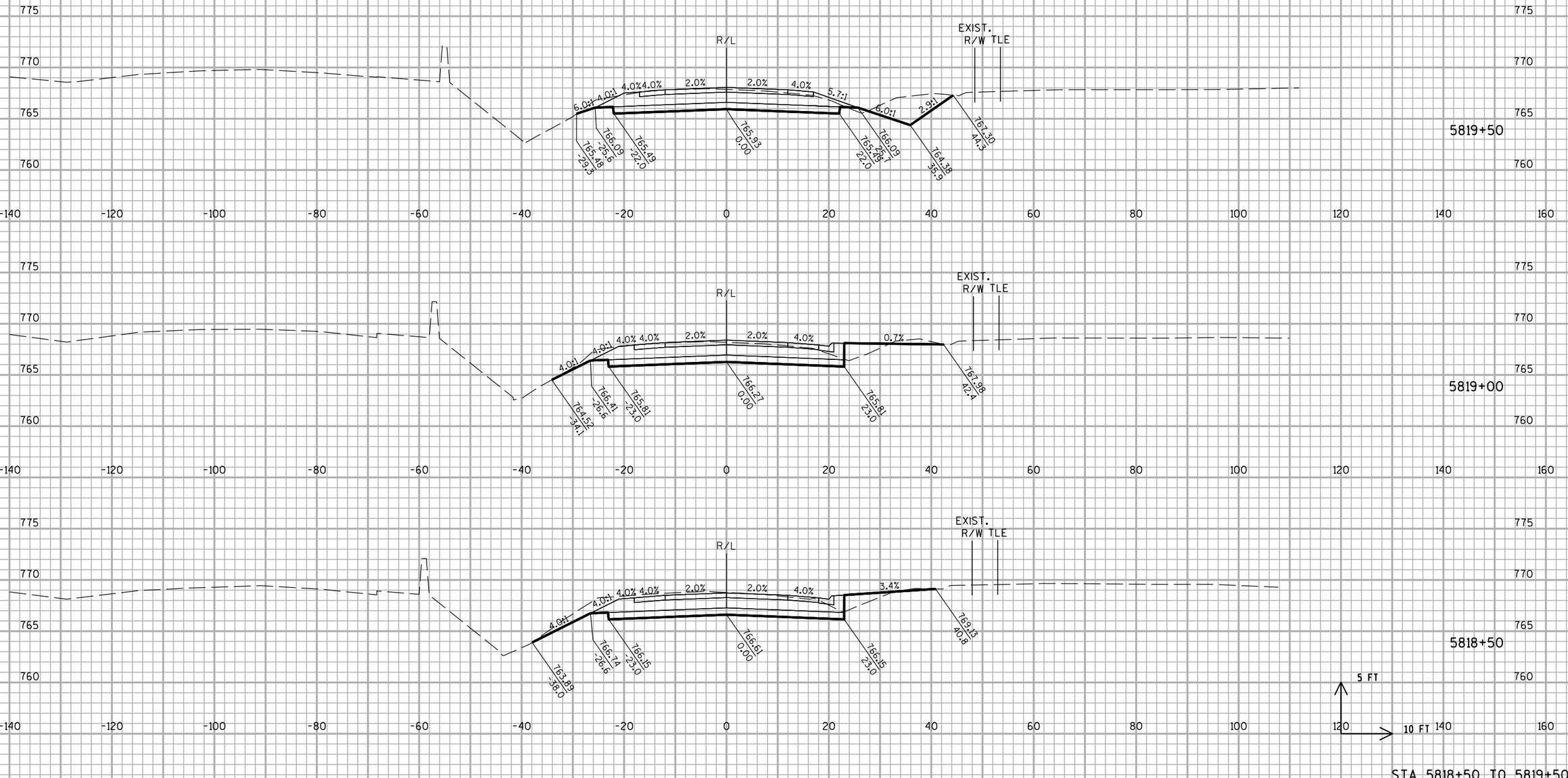


STA 5817+00 TO 5818+00

PROJECT NO: 1033-02-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 168	E

FILE NAME : Z:\Racine\CADDS\14\14E\CDS\090201_xs_EFR.dgn PLOT DATE : 7/31/2017 PLOT BY : kes PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



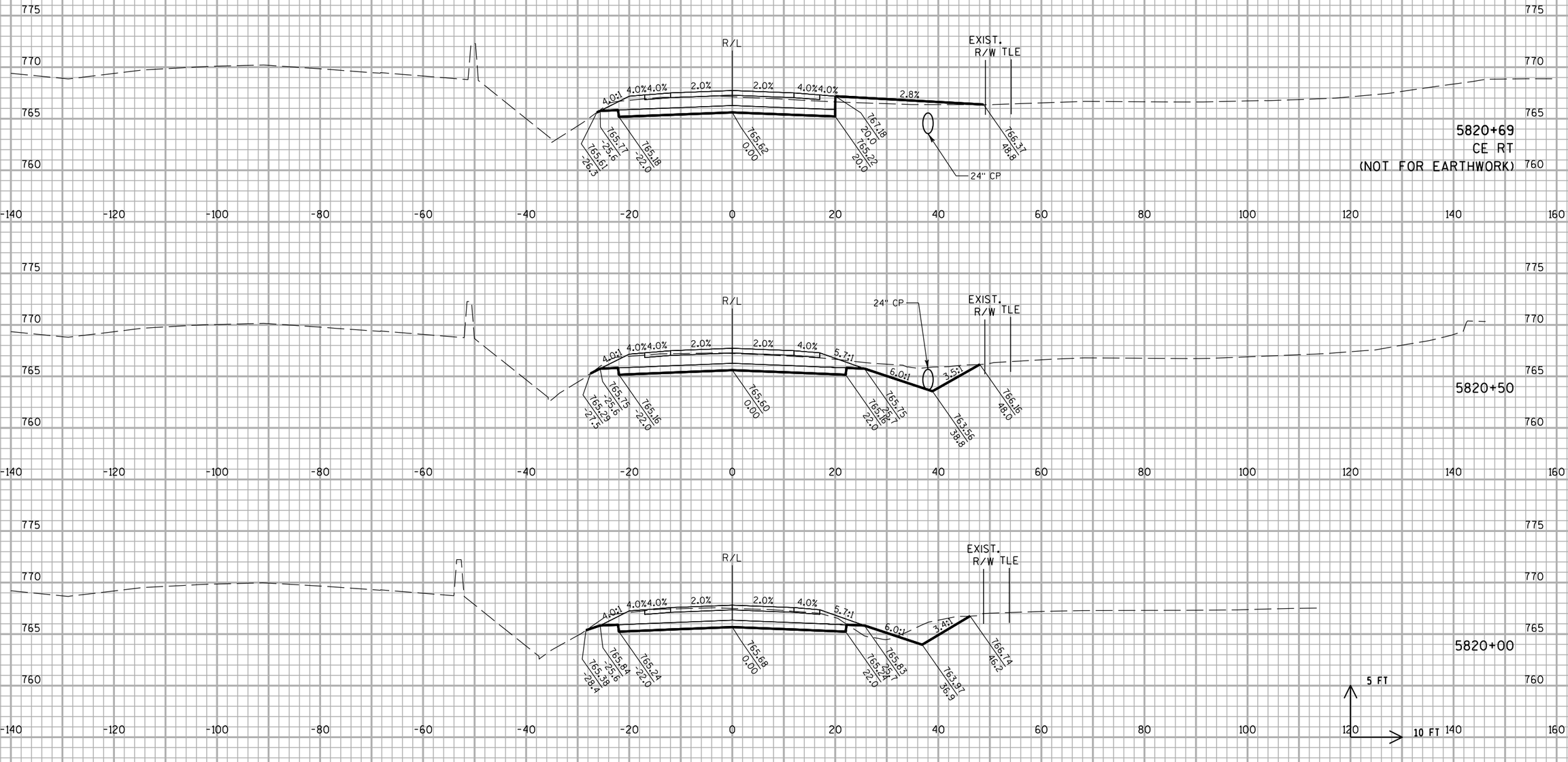
9

9

STA 5818+50 TO 5819+50

PROJECT NO: 1033-02-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 169	E

FILE NAME : Z:\Racine\CADDS\14\14E\CDS\090201_xs_EFR.dgn
PLOT DATE : 7/31/2017
PLOT BY : kes
PLOT NAME : $FILE$
PLOT SCALE : 1:20
WISDOT/CADDS SHEET 21



STA 5820+00 TO 5820+69

PROJECT NO: 1033-02-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 170	E

FILE NAME : Z:\Racine\CADDS\14\14E\CDS\090201_xs_EFR.dgn PLOT DATE : 7/31/2017 PLOT BY : kes PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

9

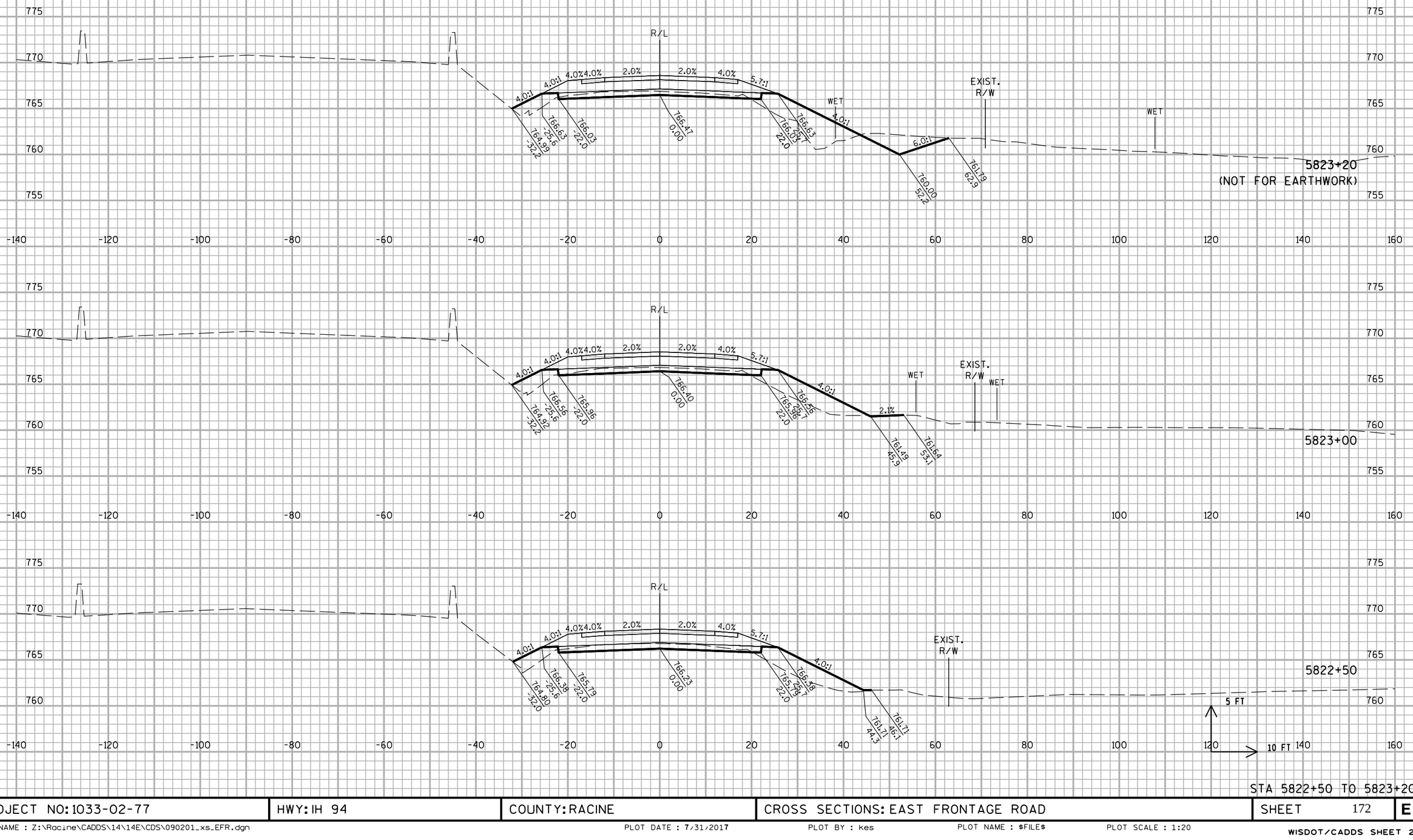
9

STA 5821+00 TO 5822+00

PROJECT NO: 1033-02-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 171	E

FILE NAME : Z:\Racine\CADDS\14\14E\CDS\090201_xs_EFR.dgn PLOT DATE : 7/31/2017 PLOT BY : kes PLOT NAME : $FILE$ PLOT SCALE : 1:20

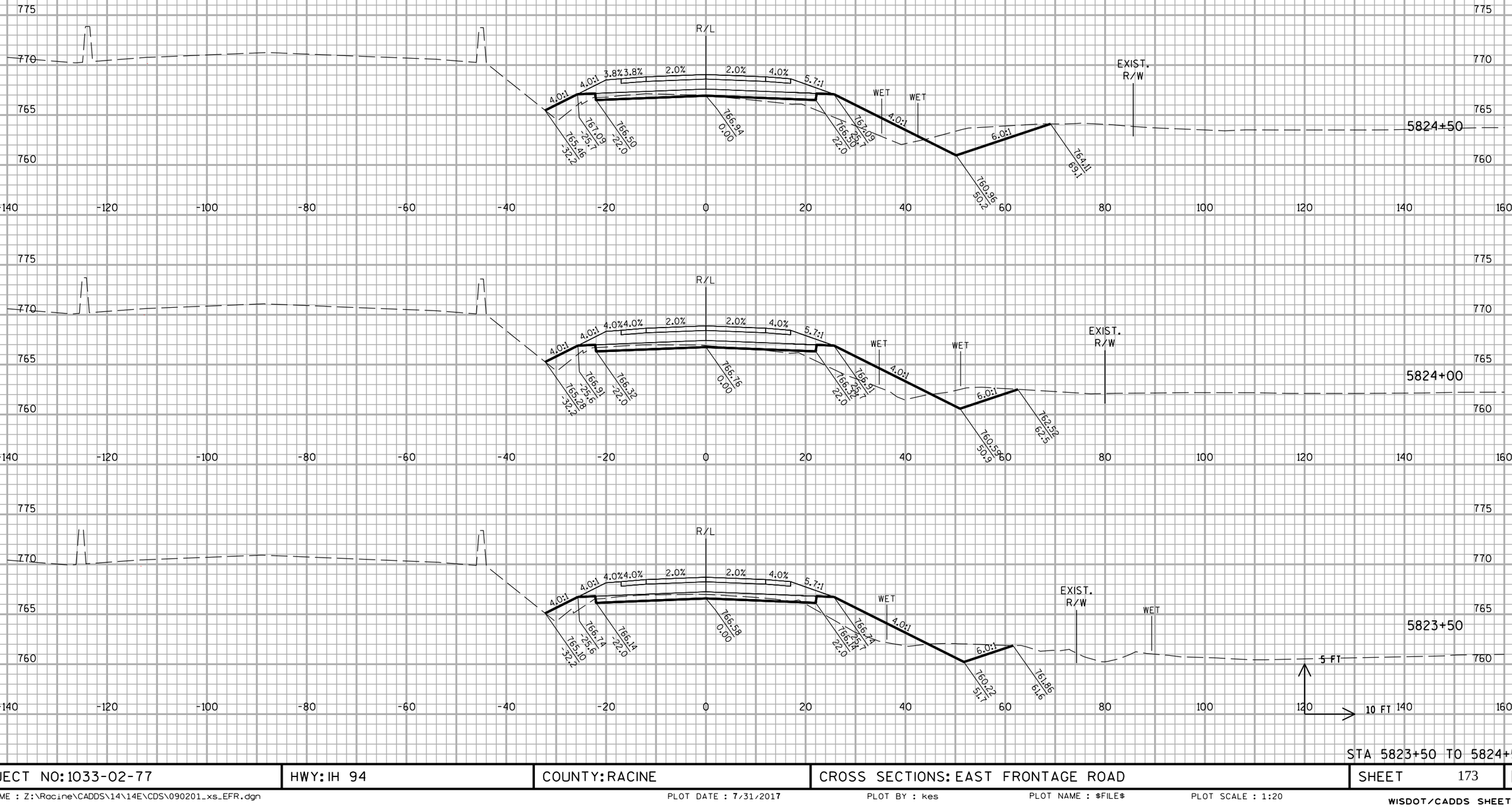
WISDOT/CADDS SHEET 21



PROJECT NO: 1033-02-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 172	E

FILE NAME : Z:\Racine\CADDS\14\14E\CDS\090201_xs_EFR.dgn PLOT DATE : 7/31/2017 PLOT BY : kes PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

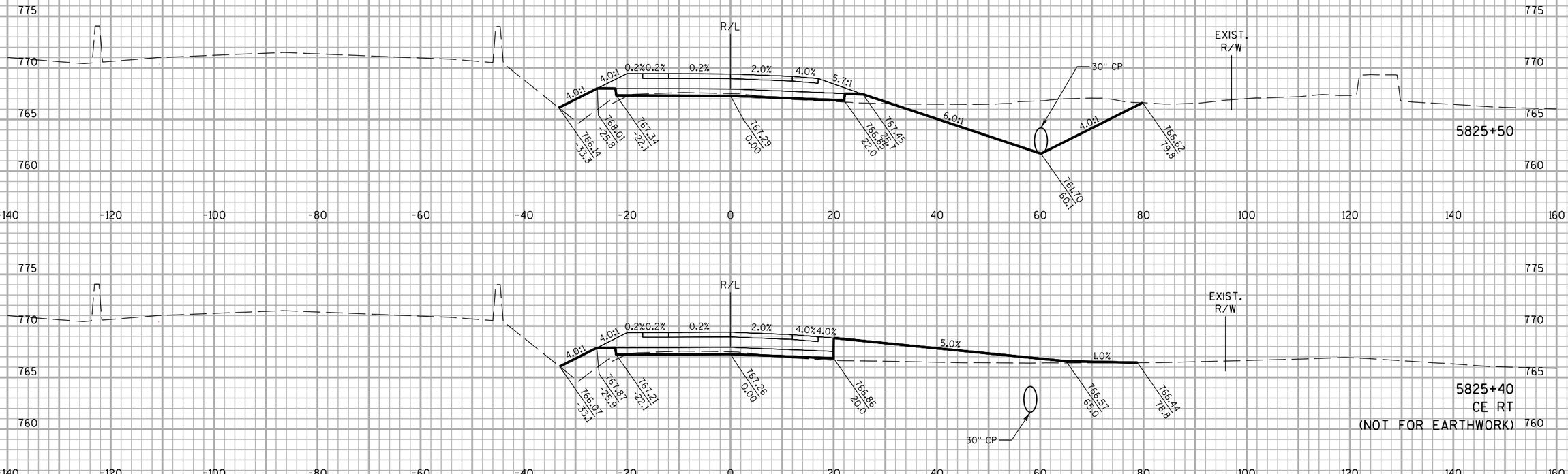


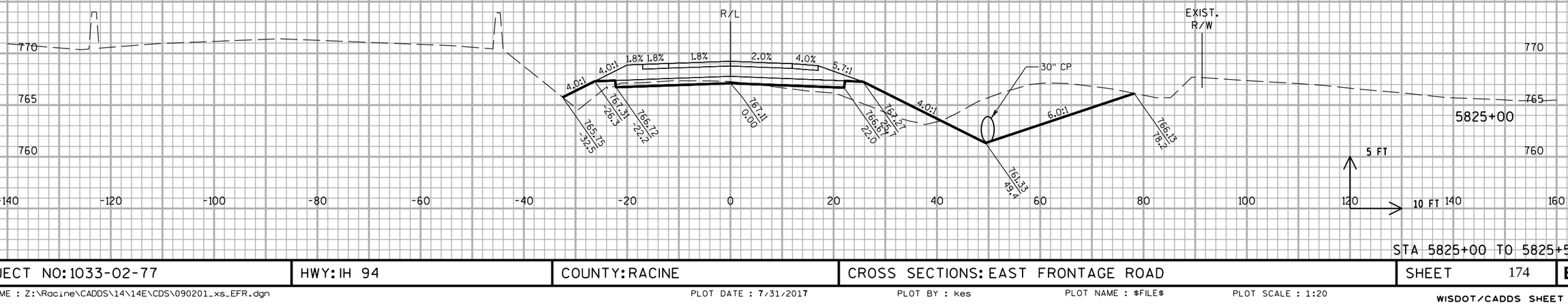
STA 5823+50 TO 5824+50

PROJECT NO: 1033-02-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 173	E

FILE NAME : Z:\Racine\CADDS\14\14E\CDS\090201_xs_EFR.dgn PLOT DATE : 7/31/2017 PLOT BY : kes PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21





9

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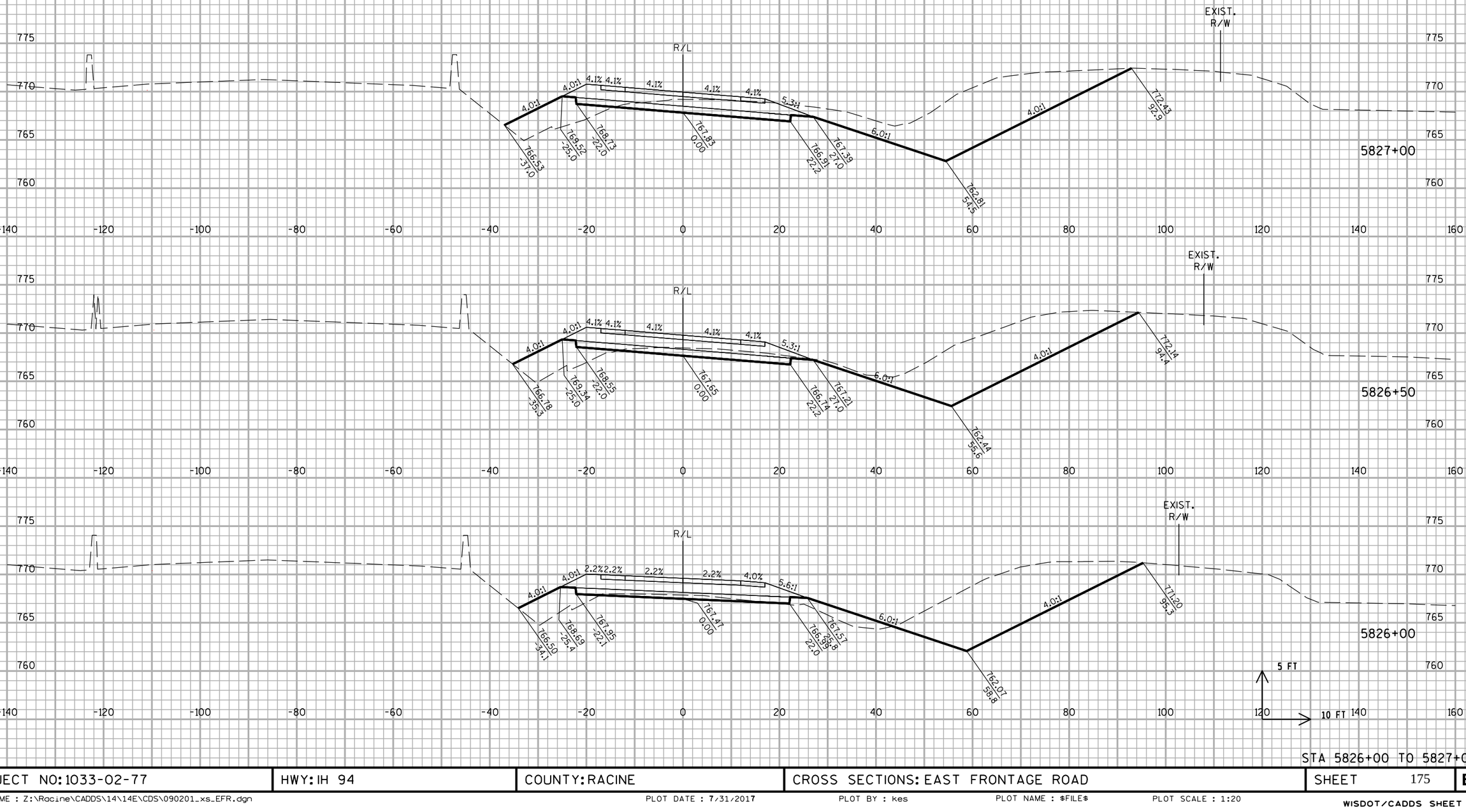
STA 5825+00 TO 5825+50

PROJECT NO: 1033-02-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 174	E

FILE NAME : Z:\Racine\CADDS\14\14E\CDS\090201_xs_EFR.dgn PLOT DATE : 7/31/2017 PLOT BY : kes PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

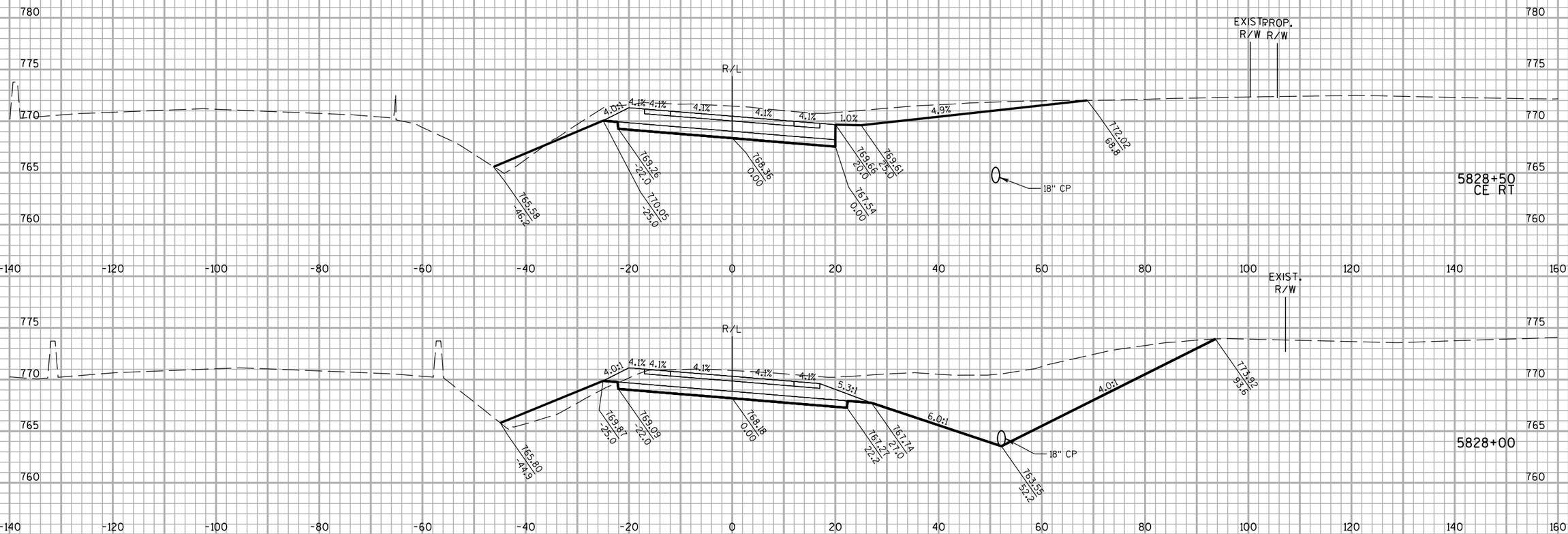


STA 5826+00 TO 5827+00

PROJECT NO: 1033-02-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 175	E

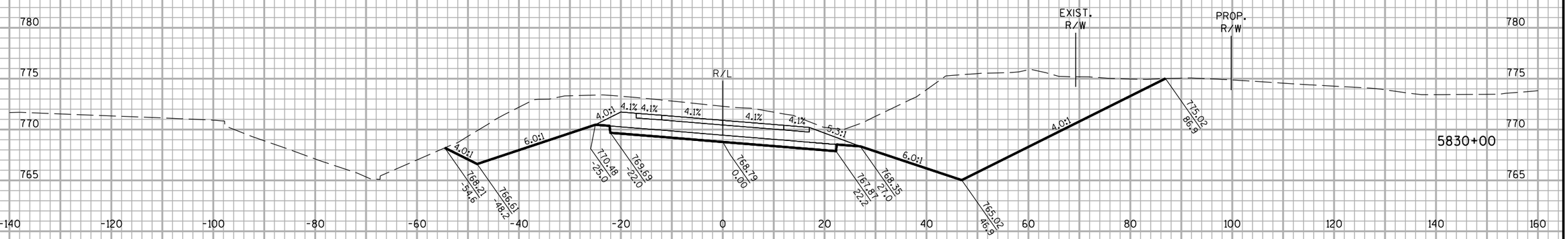
FILE NAME : Z:\Racine\CADDS\14\14E\CDS\090201_xs_EFR.dgn PLOT DATE : 7/31/2017 PLOT BY : kes PLOT NAME : $FILE$ PLOT SCALE : 1:20

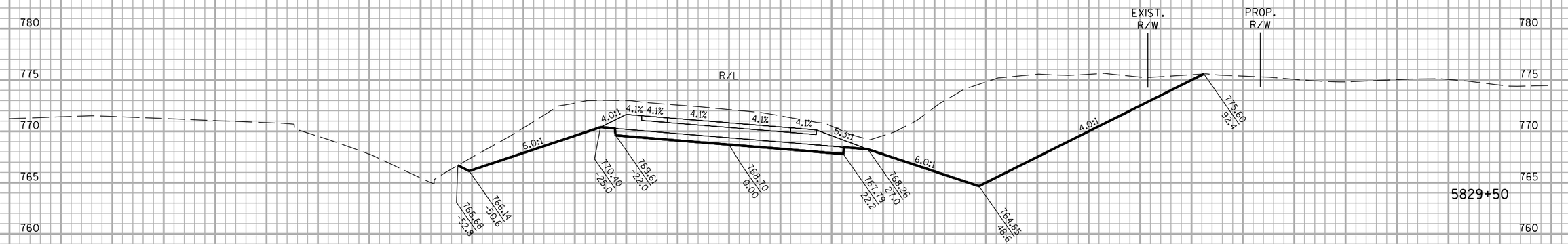
WISDOT/CADDS SHEET 21

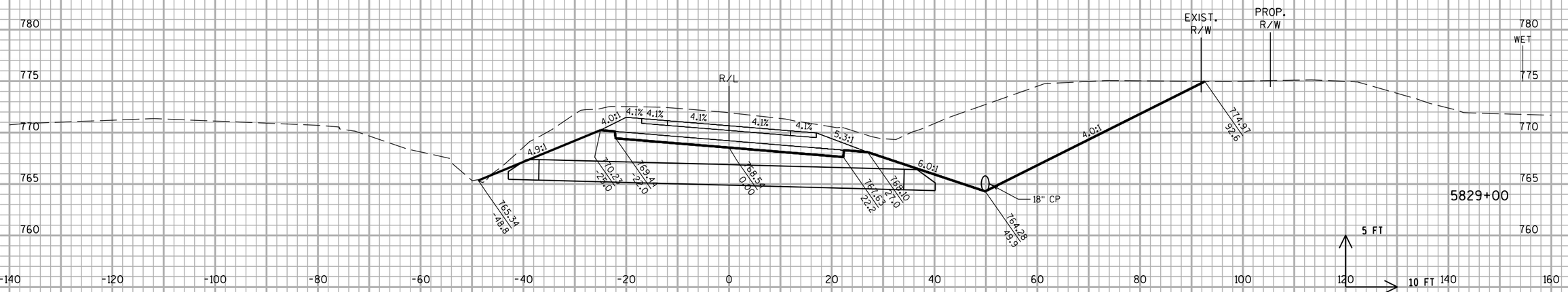


STA 5827+50 TO 5828+50

PROJECT NO: 1033-02-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 176	E

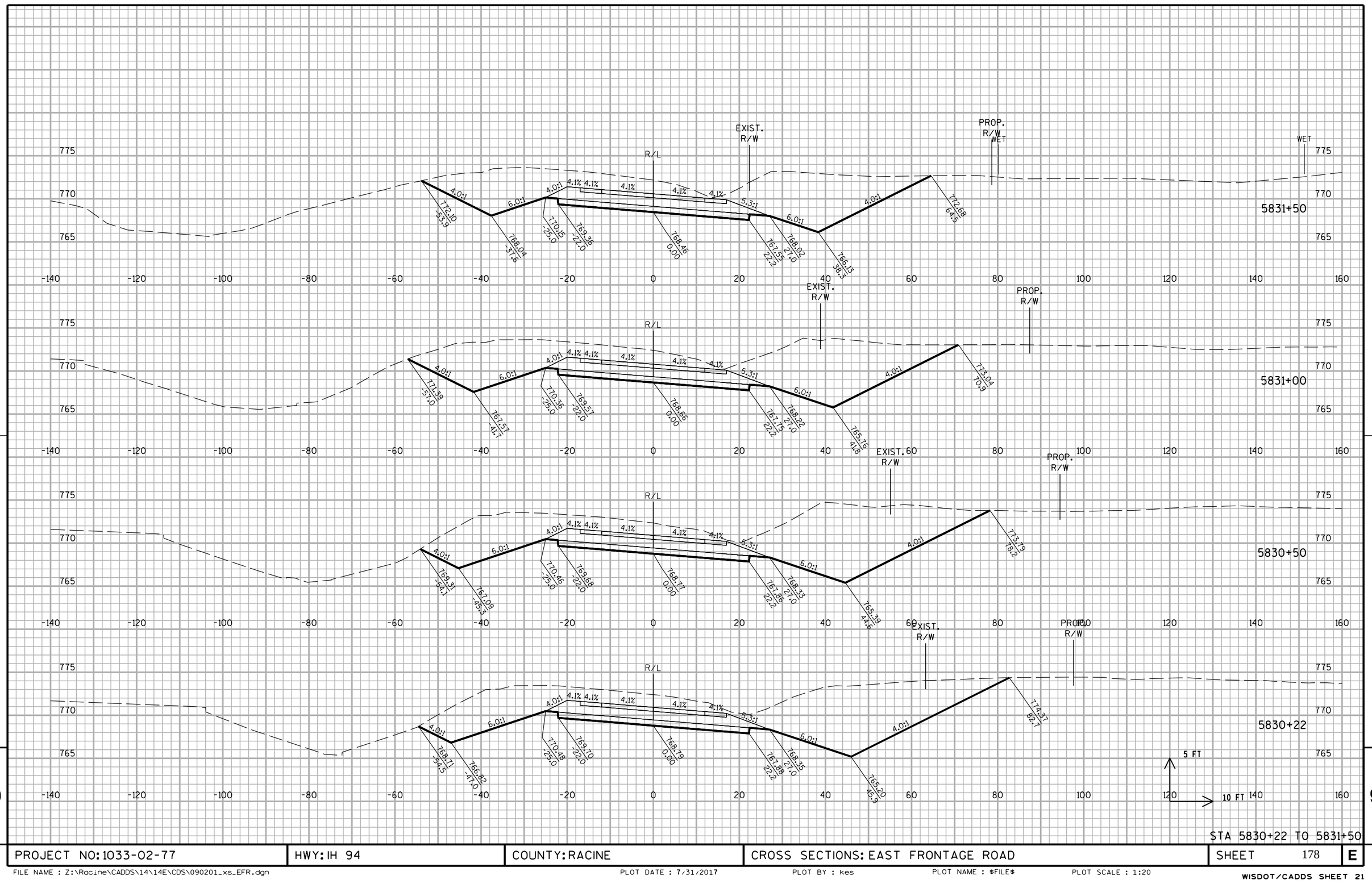






STA 5829+00 TO 5830+00

PROJECT NO: 1033-02-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 177	E

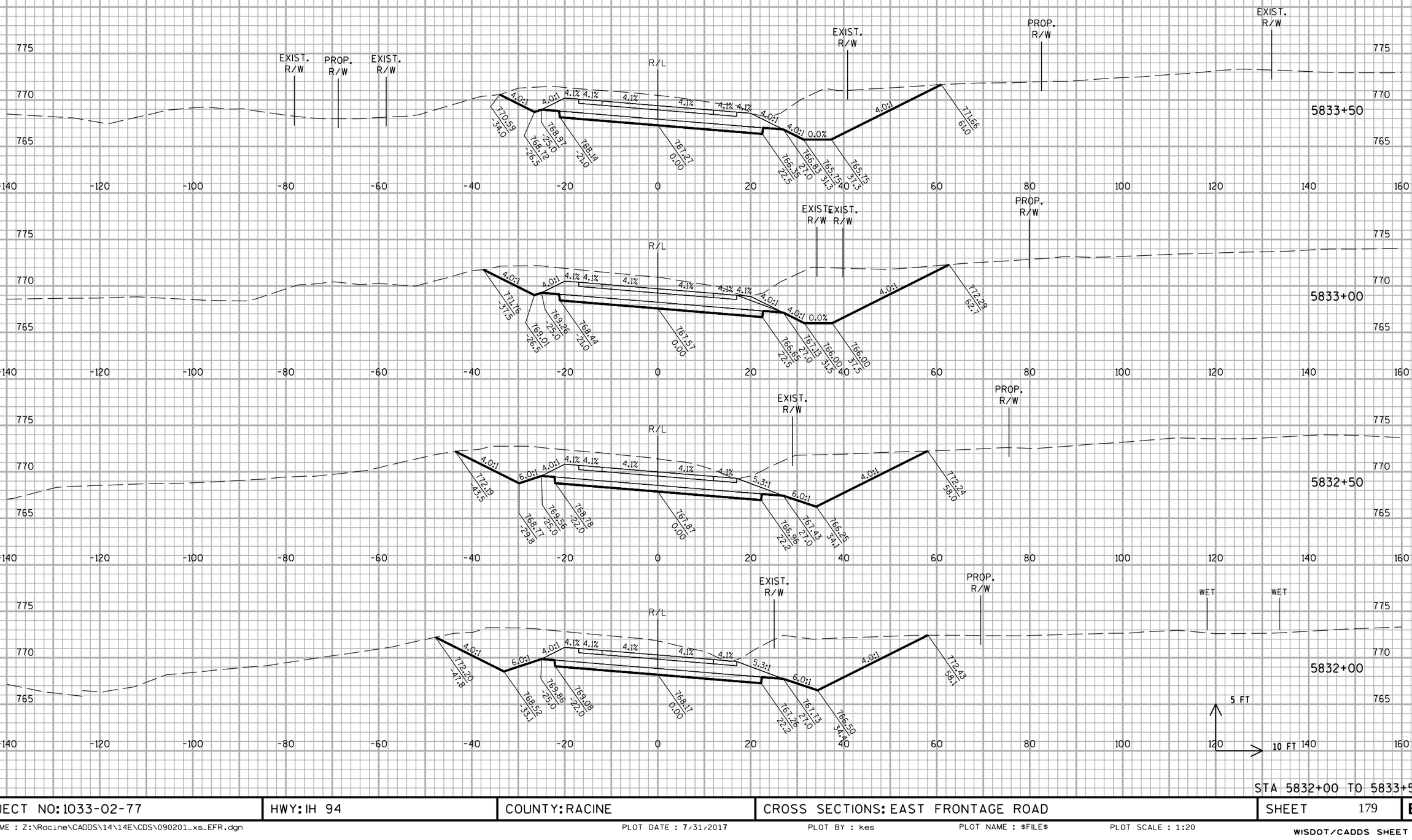


STA 5830+22 TO 5831+50

PROJECT NO: 1033-02-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 178	E

FILE NAME : Z:\Racine\CADDS\14\14E\CDS\090201_xs_EFR.dgn PLOT DATE : 7/31/2017 PLOT BY : kes PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

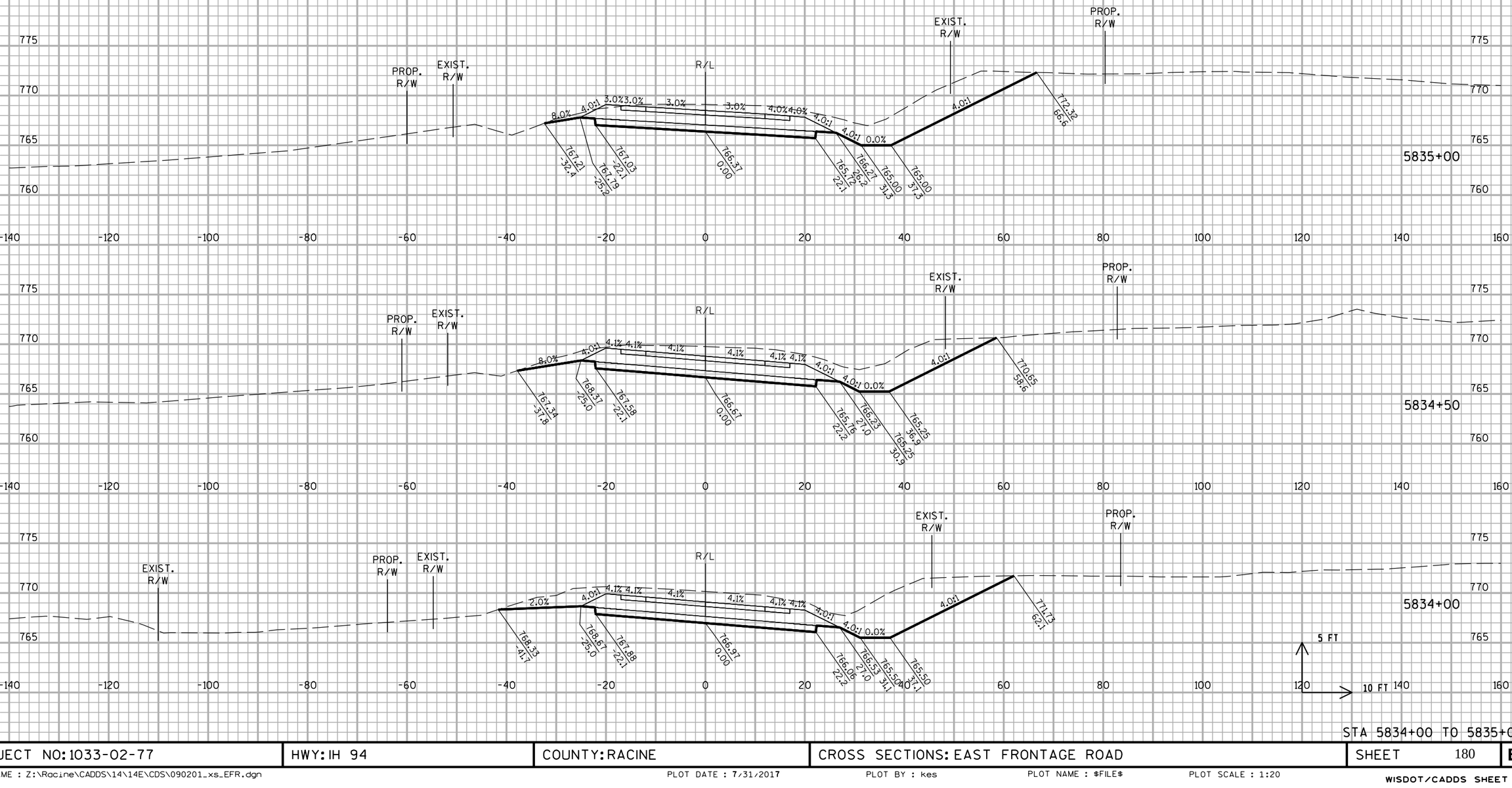


STA 5832+00 TO 5833+50

PROJECT NO: 1033-02-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 179	E

FILE NAME : Z:\Racine\CADDS\14\14E\CDS\090201_xs_EFR.dgn PLOT DATE : 7/31/2017 PLOT BY : kes PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



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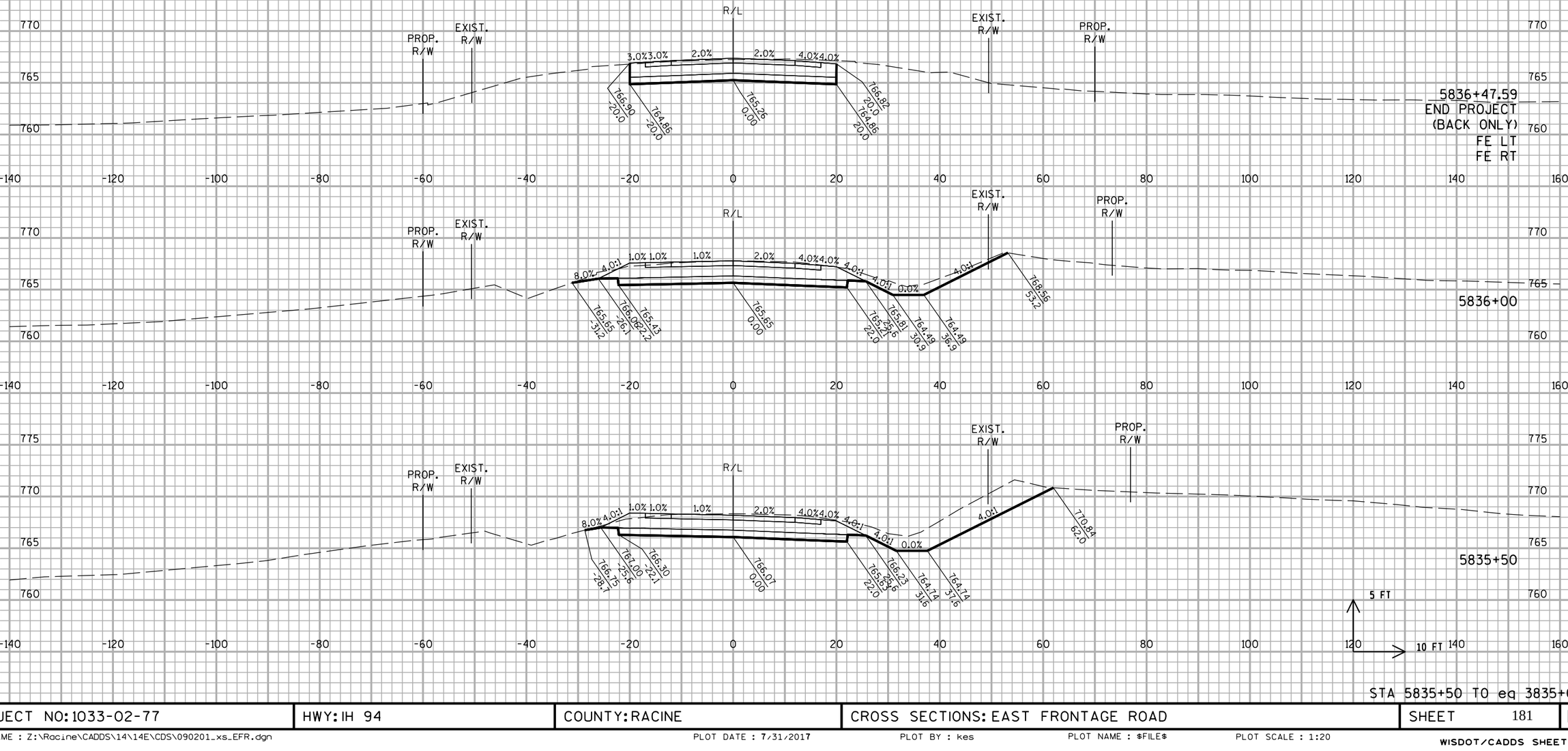
PROJECT NO: 1033-02-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 180	E

9

FILE NAME : Z:\Racine\CADDS\14\14E\CDS\090201_xs_EFR.dgn PLOT DATE : 7/31/2017 PLOT BY : kes PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



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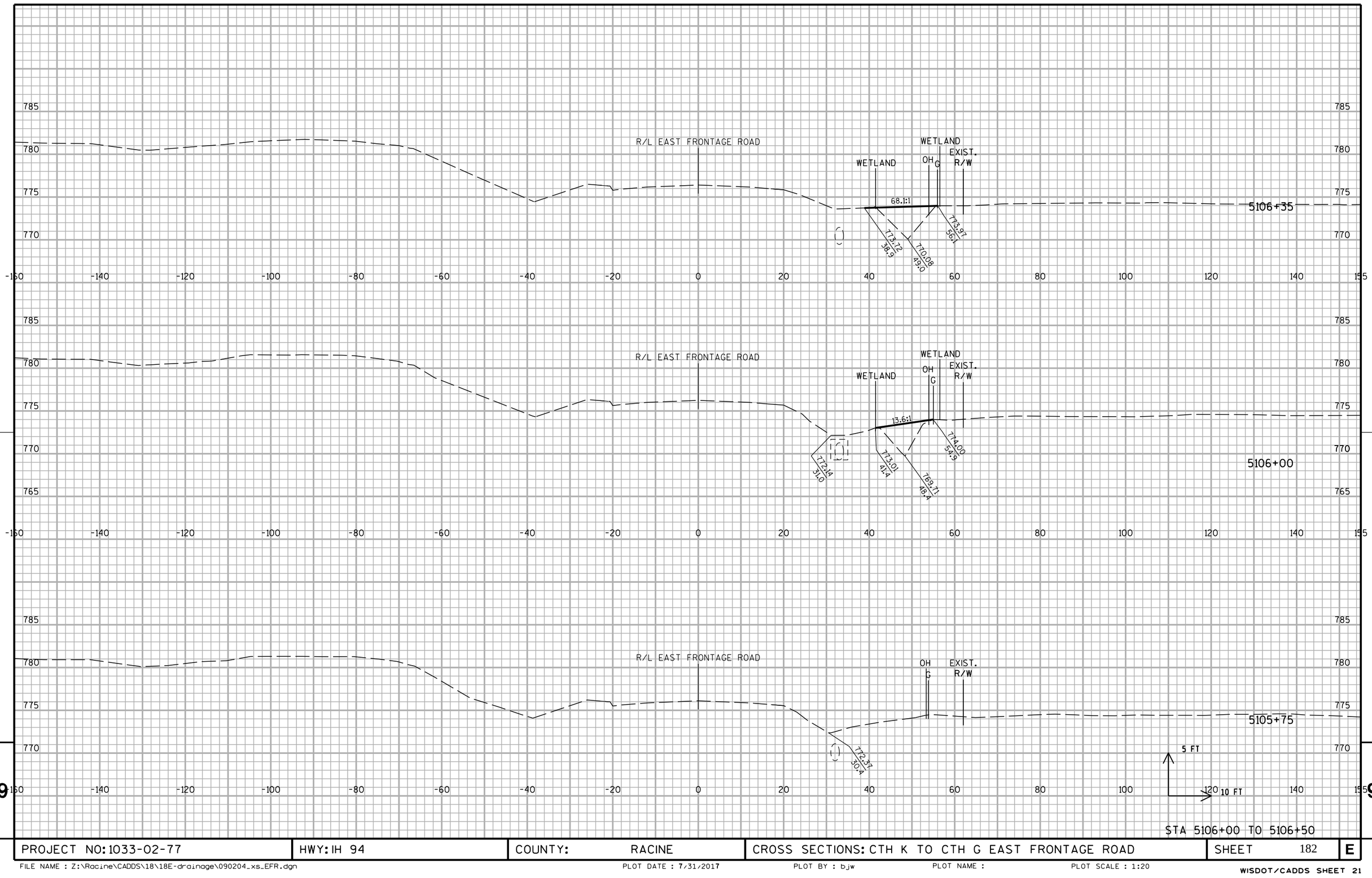
9

PROJECT NO: 1033-02-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 181	E



PROJECT NO: 1033-02-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: CTH K TO CTH G EAST FRONTAGE ROAD	SHEET 182	E

FILE NAME : Z:\Racine\CADDS\18\18E-drainage\090204_xs_EFR.dgn PLOT DATE : 7/31/2017 PLOT BY : bjw PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

Notes

Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

http://www.dot.wisconsin.gov

WKE

NOV 2017

PROJECT ID: 1033-02-78
WITH: 1030-24-70/74/77/78, 1033-02-77

COUNTY: RACINE

ORDER OF SHEETS

Section No.	1	Title
Section No.	2	Typical Sections and Details (Includes Erosion Control)
Section No.	3	Estimate of Quantities
Section No.	3	Miscellaneous Quantities
Section No.	4	Right of Way Plat
Section No.	5	Plan and Profile
Section No.	6	Standard Detail Drawings
Section No.	7	Sign Plates
~~Section No.~~	~~8~~	~~Structure Plans~~
Section No.	9	Computer Earthwork Data
Section No.	9	Cross Sections

TOTAL SHEETS = 246

36

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

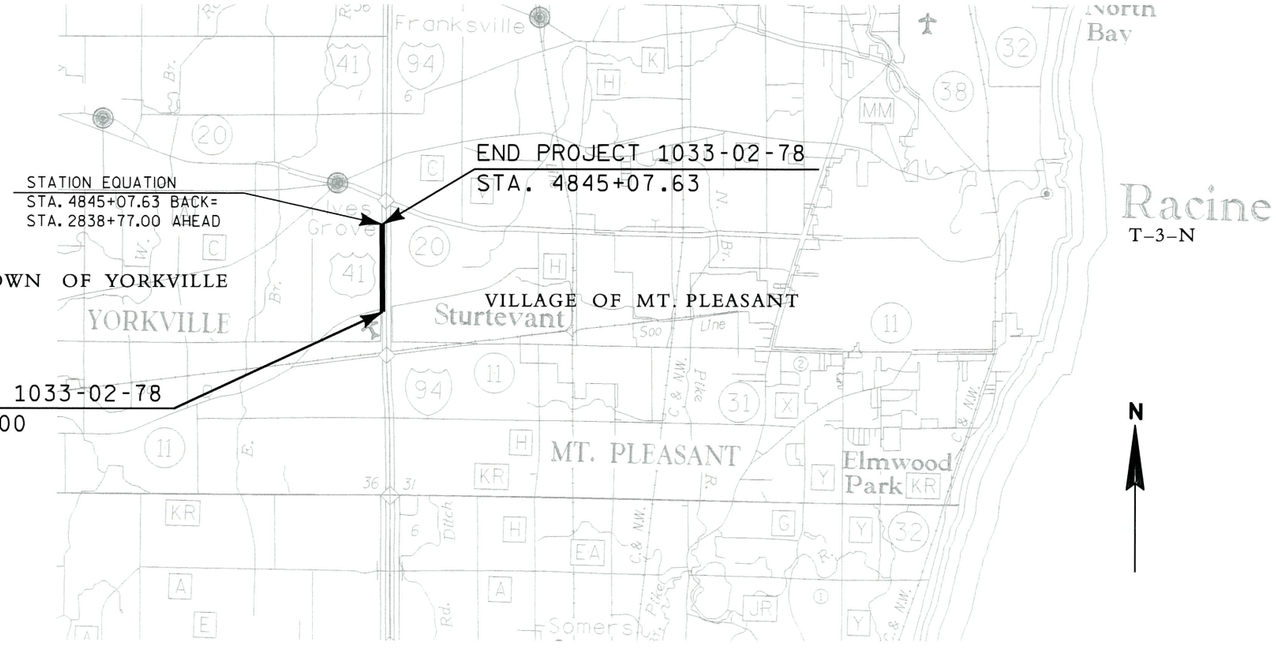
N-S FREEWAY STH 11 TO STH 20

WEST FRONTAGE ROAD
IH 94

RACINE COUNTY

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1033-02-78	WISC 2017612	1

STATE PROJECT NUMBER
1033-02-78



DESIGN DESIGNATION

WEST FRONTAGE ROAD

A.A.D.T. 2011	=	1,200
A.A.D.T. 2038	=	1,600
D.H.V.	=	248
D.D.	=	.59 SB/.41 NB
T.	=	9.8%
DESIGN SPEED	=	40 MPH/60 MPH
ESALS	=	1,138,800

CONVENTIONAL SYMBOLS

PLAN

- CORPORATE LIMITS
- PROPERTY LINE
- LOT LINE
- LIMITED HIGHWAY EASEMENT
- EXISTING RIGHT OF WAY
- PROPOSED OR NEW R/W LINE
- SLOPE INTERCEPT
- REFERENCE LINE
- EXISTING CULVERT
- PROPOSED CULVERT (Box or Pipe)
- COMBUSTIBLE FLUIDS (CAUTION)
- MARSH AREA
- WOODED OR SHRUB AREA

PROFILE

- GRADE LINE
- ORIGINAL GROUND
- MARSH OR ROCK PROFILE (To be noted as such) (ROCK)
- SPECIAL DITCH (LABEL)
- GRADE ELEVATION (95.36)
- CULVERT (Profile View)

UTILITIES

- ELECTRIC (E)
- FIBER OPTIC (FO)
- GAS (G)
- SANITARY SEWER (SAN)
- STORM SEWER (SS)
- TELEPHONE (T)
- WATER (W)
- UTILITY PEDESTAL
- POWER POLE
- TELEPHONE POLE

LAYOUT
SCALE 0 1 MI.

TOTAL NET LENGTH OF CENTERLINE = 1.138 MI.

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (91), NAVD88 (91)

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), RACINE COUNTY, NAD1983 (97)

ORIGINAL PLANS PREPARED BY
emcs inc
1300 W. Canal Street, Suite 200
Milwaukee, WI 53233
414.347.1607 Fax 414.347.1347

WISCONSIN
BRIAN J. WILSON
E-34330-6
MILWAUKEE
WI
PROFESSIONAL ENGINEER

7/31/2017 (Date) Brian J. Wilson (Signature)

ORIGINAL PLANS PREPARED BY
DAAR ENGINEERING, INC.
www.daarengineering.com
Milwaukee, WI 53212
414-225-9817

WISCONSIN
ANDREW J. SMIEJA
E-31137
WAUKESHA, WI
PROFESSIONAL ENGINEER

8/1/17 (Date) (Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	WISDOT/EMCS
Designer	EMCS/DAAR
Project Manager	FRANK PRITZLAFF
Regional Examiner	
Regional Supervisor	WAFA ELQAQ

APPROVED FOR THE DEPARTMENT
DATE: 8/1/17 (Signature)

E

UTILITY CONTACTS

AT&T CORPORATION
C/O MR. KEN NINE
JMC ENGINEERS & ASSOCIATES, INC.
110 NORTH MAIN STREET
CULVER, IN 46511
PHONE: (574) 842-8830
CELL: (574) 904-6336
kennethnine@att.net

AT&T WISCONSIN
MR. MARK EDER
2005 PEWAUKEE RD
WAUKESHA, WI 53188
PHONE: (262) 896-7434
me1754@att.com

CHARTER COMMUNICATIONS
MR. STEVE CRAMER
1320 N. MARTIN LUTHER KING JR. DRIVE
MILWAUKEE, WI 53212
PHONE: (414) 277-4045
CELL: (414) 688-2385
steve.cramer@charter.com
wis.engineering@charter.com

LEVEL 3 COMMUNICATIONS
MR. BRAHIM GADDOUR
OSP ENGINEERING DEPT.
3235 INTERTECH DRIVE, SUITE 600
BROOKFIELD, WI 53045
PHONE: (414) 908-1027
CELL: (414) 704-1026
gaddour.brahim@level3.com
relo@level3 com

WISDOT STOC
MR. JEFFREY MADSON
433 W ST. PAUL AVE, SUITE 300
MILWAUKEE, WI 53203
PHONE: (414) 225-3723
jeffrey.madson@dot.wi.gov

WE ENERGIES - ELECTRIC
SEND ALL CORRESPONDENCE TO:
MR. LATROY BRUMFIELD
333 W. EVERETT STREET - A299
MILWAUKEE, WI 53203
PHONE: (414) 221-5617
latroy.brumfield@we-energies.com

CONSTRUCTION FIELD CONTACT:
MR. DAN TOOMEY
500 S. 116TH STREET
WEST ALLIS, WI 53214
PHONE: (414) 944-5695
dan.toomey@we-energies.com

WE ENERGIES - GAS
SEND ALL CORRESPONDENCE TO:
MR. LATROY BRUMFIELD
333 W. EVERETT STREET - A299
MILWAUKEE, WI 53203
PHONE: (414) 221-5617
latroy.brumfield@we-energies.com

CONSTRUCTION FIELD CONTACT:
MR. DAN TOOMEY
500 S. 116TH STREET
WEST ALLIS, WI 53214
PHONE: (414) 944-5695
dan.toomey@we-energies.com

YORKVILLE SEWER UTILITY DISTRICT NO. 1
MR. GARY HANSON
925 15TH AVE
PO BOX 15
UNION GROVE, WI 53182
PHONE: (262) 888-9439
yorkville_sewer@yahoo.com

TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN

WIS. STATUTE 182.0175 (1974) REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE.

DIGGERS HOTLINE

Call 811 3 Work Days Before You Dig
or Toll Free (800) 242-8511
Hearing Impaired TDD (800) 542-2289
www.DiggersHotline.com

ORDER OF SECTION 2 DETAIL SHEETS

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
REMOVAL PLAN
PLAN DETAILS
EROSION CONTROL
STORM SEWER
EXISTING AND PERMANENT SIGNING
PAVEMENT MARKING
TRAFFIC CONTROL
FENCING PLAN
ALIGNMENT PLAN

STATE AGENCIES

WISCONSIN DEPARTMENT OF TRANSPORTATION
MS. LACI KAZAN - ENVIRONMENTAL ANALYST AND REVIEW SPECIALIST
141 NW BARSTOW STREET
WAUKESHA, WI 53187-0798
CELL: (414) 322-1429
laci.kazan@dot.wi.gov

WISCONSIN DEPARTMENT OF TRANSPORTATION
MR. GREG BERRY - UTILITY COORDINATOR
141 NW BARSTOW STREET
WAUKESHA, WI 53187-0798
CELL: (414) 750-7828
gregory.berry@dot.wi.gov

WISCONSIN DEPARTMENT OF NATURAL RESOURCES
KRISTINA BETZOLD
DNR SOUTHEAST REGION HQ
2300 N. DR. MARTIN LUTHER KING JR. DR.
MILWAUKEE, WI 53212
PHONE: (414) 263-8517
kristina.betzold@wisconsin.gov

WISCONSIN DEPARTMENT OF TRANSPORTATION
MR. FRANK PRITZLAFF - PROJECT MANAGER
141 NW BARSTOW STREET
WAUKESHA, WI 53187-0798
PHONE: (262) 548-5683
frank.pritzlaff@dot.wi.gov

SOUTHEASTERN WISCONSIN REGIONAL PLANNING COMMISSION
MR. JOHN WASHBURN
W239 N1812 ROCKWOOD DRIVE
P.O. BOX 1607
WAUKESHA, WI 53187-1607
PHONE: (262) 953-4295
CELL: (414) 218-2866
jwashburn@sewrpc.org

OTHER AGENCIES

VILLAGE OF MOUNT PLEASANT
MR. MARK BENISH
8700 CAMPUS DRIVE
MOUNT PLEASANT, WI 53406
PHONE: (262) 664-7844
mbenish@mtpleasantwi.gov

RACINE COUNTY DPW
MR. NATHAN PLUNKETT
14200 WASHINGTON AVE
STURTEVANT, WI 53177
PHONE: (262) 886-8442
nathan.plunkett@racinecounty.com

SYLVANIA AIRPORT
AERIS AVIATION, LLC.
2624 SOUTH SYLVANIA AVENUE
STURTEVANT, WI 53177
PHONE: (888) 882-3747
fly@aerosaviation.com

TOWN OF YORKVILLE
MR. MICHAEL MCKINNEY
925 15TH AVENUE
UNION GROVE, WI 53182
PHONE: (262) 878-2123
michael@townofyorkville.com

GENERAL NOTES

NO TREES OR SHRUBS SHALL BE REMOVED WITHOUT APPROVAL OF THE ENGINEER.

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE AND AFFECTED UTILITIES PRIOR TO THE START OF WORK. ANY LOCAL MUNICIPAL UTILITY WHICH IS NOT A MEMBER OF THE DIGGERS HOTLINE MUST BE CONTACTED SEPARATELY.

ALL HOLES OR OPENINGS RESULTING FROM ABANDONMENT OR REMOVAL OF EXISTING STRUCTURES SHALL BE FILLED WITH GRANULAR BACKFILL.

WHEN THE QUANTITY OF HMA OR BASE AGGREGATE IS MEASURED FOR PAYMENT BY THE TON, THE DEPTH OR THICKNESS OF THE LAYER SHOWN ON THE PLAN IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.

INLET AND DISCHARGE ELEVATIONS FOR DRAINAGE STRUCTURES SHOWN ON THE PLAN MAY BE ADJUSTED BY THE ENGINEER TO FIT FIELD CONDITIONS.

CURB HEIGHTS AT THE END OF CURB AND GUTTER SHALL BE TAPERED FROM 0 TO 4 INCHES OR 0 TO 6 INCHES IN 6 FEET, PER CONSTRUCTION DETAIL.

CURB AND GUTTER GRADES ARE GIVEN TO THE FLANGE. CURB AND GUTTER RADII ARE MEASURED TO THE FLANGE.

EXISTING DRIVEWAYS AND FIELD ENTRANCES SHALL BE RESTORED IN KIND AS DIRECTED BY THE ENGINEER IN THE FIELD AND AT THE LOCATION DETERMINED BY THE ENGINEER.

BROKEN CONCRETE CONTAINING RE-BAR SHALL NOT BE USED AS RIPRAP.

CROSS SECTIONS SHOWN INCLUDE THE THICKNESS OF TOPSOIL WHERE REQUIRED. TOPSOIL SHALL BE REPLACED WITH 4-INCH TYPICAL DEPTH.

TRAFFIC CONTROL DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

USE EROSION MAT URBAN CLASS I TYPE B ADJACENT TO DISTURBED AREAS NEXT TO WETLANDS. DO NOT INSTALL EROSION MAT URBAN CLASS I TYPE B IN WATER.

ALL ENCROACHMENTS SHOWN ON THE PLAN ARE TO BE REMOVED BY THE PROPERTY OWNER PRIOR TO CONSTRUCTION UNLESS OTHERWISE NOTED.

THE LOCATIONS OF SELECT SUBBASE AND GEOGRID TYPE SR ARE DEPENDENT ON FIELD CONDITIONS DURING GRADING OPERATIONS. GEOGRID REINFORCEMENT AND FILL MATERIAL SHALL NOT BE PLACED UNTIL AUTHORIZED BY THE ENGINEER OR SOILS ENGINEER.

PRIOR TO ORDERING DRAINAGE PIPES AND STRUCTURES, THE CONTRACTOR SHALL VERIFY RELATED DRAINAGE INFORMATION IN TH PLANS AND PROVIDE DOCUMENTATION TO ENGINEER IN ACCORDANCE WITH THE SPECIFICATIONS.

CONTRACTOR MUST CONTACT THE PROJECT ENGINEER AND THE RACINE COUNTY SURVEYOR, JOHN WASHBURN, AND RACINE COUNTY PUBLIC WORKS DIRECTOR, JULIE ANDERSON, AT LEAST TWO WEEKS PRIOR TO WORK NEAR ANY PUBLIC SURVEY MONUMENT.

FERTILIZER SHALL NOT BE USED WITHIN 20 FEET OF NAVIGABLE WATERWAYS OR WETLANDS.

ASPHALTIC AND CONCRETE SURFACES INCLUDING DRIVEWAYS AND/OR PARKING LOTS SHALL BE SAWCUT AT THE MATCHLINE AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER.

STATIONING, DISTANCES AND OFFSETS FOR SIGNS SHOWN ON THE PLANS ARE APPROXIMATE AND THE LOCATIONS OF SIGNS ARE TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

LOCATIONS OF DRAINTILE ON THE PLAN ARE BASED ON AS-BUILT OR PROPERTY OWNER INTERVIEWS. DRAINTILE EXPLORATION ITEM IS TO BE USED TO VERIFY THE EXACT SIZE AND LOCATION

ADDRESS NUMBER SIGNS WILL BE RELOCATED BY LOCAL MUNICIPALITIES. CONTACT MUNICIPALITY TWO WEEKS PRIOR TO BEGINNING WORK WHICH MAY DISTURB ADDRESS NUMBER SIGNS.

LOCATIONS OF SPRINKLER HEADS SHOWN ON THE WEST SIDE OF THE FRONTAGE ROAD BETWEEN STATION 4806+00 TO 4813+00 ARE APPROXIMATE.

A CONVERSION FACTOR OF 2.0 TONS/CY IS USED TO ESTIMATE QUANTITIES FOR BASE AGGREGATE DENSE.

A CONVERSION FACTOR OF 1.7 TONS/CY IS USED TO ESTIMATE QUANTITIES FOR BREAKER RUN.

A CONVERSION FACTOR OF 1.9 TONS/CY IS USED TO ESTIMATE QUANTITIES FOR SELECT CRUSHED MATERIAL.

A CONVERSION FACTOR OF 115 LBS/IN/SY IS USED TO ESTIMATE QUANTITIES FOR HMA PAVEMENT.

FOR SECTION CORNER REPLACEMENT CONTACT JOHN WASHBURN WITH SEWRPC AT 414-218-2866 OR JWASHBURN@SEWRPC.ORG. CONTACT SHALL BE MADE A MINIMUM OF TWO WEEKS BEFORE STARTING CONSTRUCTION OPERATIONS.

ALL TYPES OF HMA PAVEMENT SHALL BE CONSTRUCTED WITH THE FOLLOWING LAYERS AND GRADATIONS:

	PAVEMENT TYPE	TOTAL LAYER PAVEMENT THICKNESS	LAYERS
(APO3)	4 LT 58-28 S 3 LT 58-28 S	5½"	2¼" UPPER LAYER 3¼" LOWER LAYER

STANDARD ABBREVIATIONS

AECPRC	APRON ENDWALL CULVERT PIPE REINFORCED CONCRETE
AECPRCHE	APRON ENDWALL CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL
AECPSS	APRON ENDWALL CULVERT PIPE SLOPED SECTION
AEW	APRON END WALL
AGG	AGGREGATE
ASPH	ASPHALT
BAD	BASE AGGREGATE DENSE
B/C	BACK OF CURB
BM	BENCH MARK
C&G	CURB AND GUTTER
C/L	CENTER OR CONSTRUCTION LINE
CONC	CONCRETE
CP	CULVERT PIPE
CPCM	CULVERT PIPE CORRUGATED METAL
CPRC	CULVERT PIPE REINFORCED CONCRETE
CPRCHE	CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL
CSD	CONCRETE SURFACE DRAIN
CY	CUBIC-YARD
D	DEGREE OF CURVE
Δ	DELTA
DISCH	DISCHARGE
DWY	DRIVEWAY
EBS	EXCAVATION BELOW SUBGRADE
EFR	EAST FRONTAGE ROAD
EL	ELEVATION
FE	FIELD ENTRANCE
HMA	HOT MIX ASPHALT
INV	INVERT
L	LENGTH OF CURVE
LHF	LEFT HAND FORWARD
LT	LEFT
MIN	MINIMUM
M/L	MATCHLINE
NB	NORTHBOUND
NC	NORMAL CROWN
PAVT	PAVEMENT
PC	POINT-OF CURVE
PCC	POINT OF COMPOUND CURVE
PE	PRIVATE ENTRANCE
PGL	PROFILE GRADE LINE
PI	POINT OF INTERSECTION
PLE	PERMANENT LIMITED EASEMENT
PT	POINT OF TANGENT
R	RADIUS OF CURVE
R/L	REFERENCE LINE
R/W	RIGHT OF WAY
RC	REVERSE CROWN
REQ'D	REQUIRED
RHF	RIGHT HAND FORWARD
RO	RUN OFF LENGTH
RT	RIGHT
SALV	SALVAGED
SB	SOUTHBOUND
SDD	STANDARD DETAIL DRAWING
SE	SUPER ELEVATION
SF	SQUARE FOOT
SSPRC	STORM SEWER PIPE REINFORCED CONCRETE
SSPRCHE	STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL
STA	STATION
SY	SQUARE YARD
T	TANGENT LENGTH
TLE	TEMPORARY LIMITED EASEMENT
TYP	TYPICAL
VCL	VERTICAL CURVE LENGTH
VPC	POINT OF VERTICAL CURVE
VPI	POINT OF VERTICAL INTERSECTION
VPT	POINT OF VERTICAL TANGENT
WFR	WEST FRONTAGE ROAD

2

2

2

TOWN OF
YORKVILLE

1/4 SECTION LINE

END PROJECT
I.D. 1033-02-78
STA. 4845+07.63
= MATCH PROJECT
I.D. 1033-02-74
(PREVIOUSLY CONSTRUCTED)

STATION EQUATION
STA. 4845+07.63 BACK=
STA. 2838+77.00 AHEAD

GRANDVIEW PKWY.

LEETSBIR RD.

56TH RD.

WEST FRONTAGE ROAD

IH 94

IH 94

EAST FRONTAGE ROAD

BEGIN PROJECT
I.D. 1033-02-78
STA. 4785+00.00
= MATCH PROJECT
I.D. 1030-24-74

LOUIS SORENSON RD.

VILLAGE OF
MT. PLEASANT

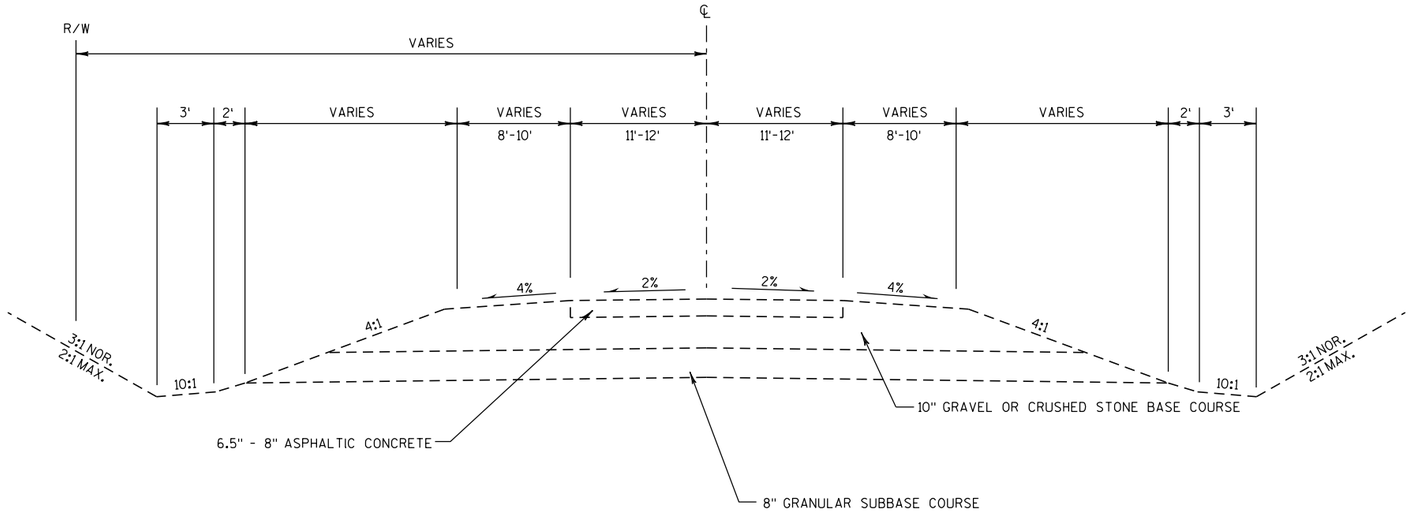
1/4 SECTION LINE

SECTION LINE

STH 20

PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	PROJECT OVERVIEW: WEST FRONTAGE ROAD	SHEET 4	E

2



TYPICAL EXISTING SECTION

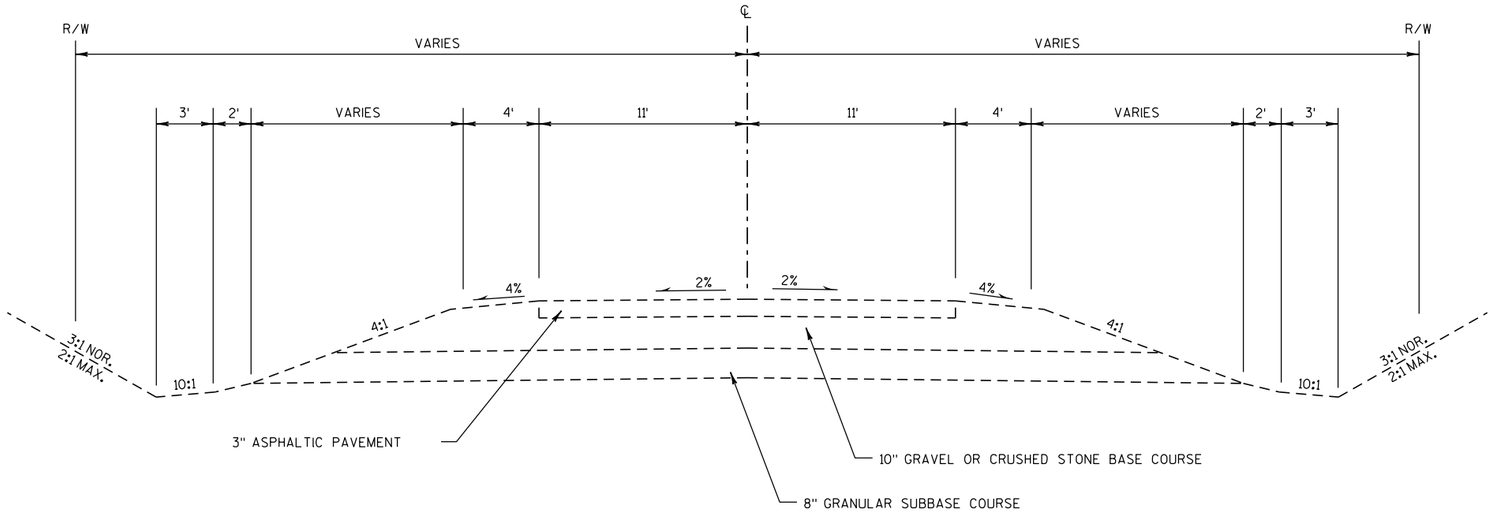
WEST FRONTAGE ROAD

STA. 4785+00 TO STA. 4845+08/2838+77

PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	TYPICAL SECTIONS: EXISTING WEST FRONTAGE ROAD	SHEET 5	E

FILE NAME : Z:\Racine\CADDS\14\14W\CDS\020301_ts.dgn PLOT DATE : 7/31/2017 PLOT BY : bjw PLOT NAME : PLOT SCALE : 1:200

WISDOT/CADDS SHEET 42



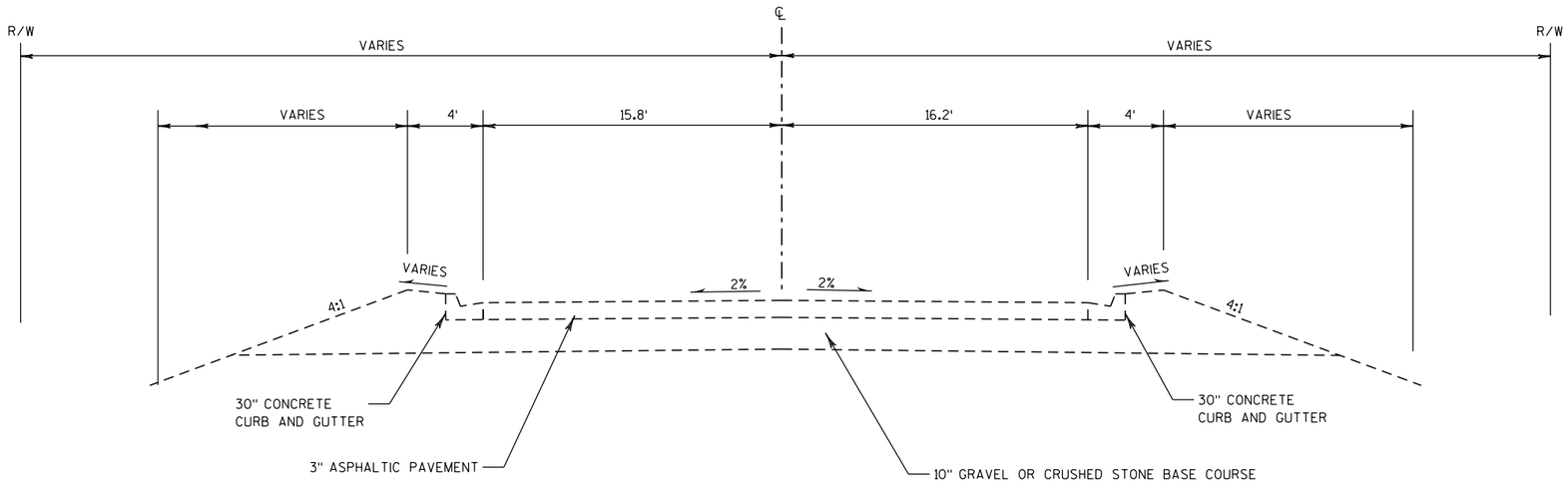
TYPICAL EXISTING SECTION

LEETSBIR ROAD

STA. 76+50 TO 77+62

56TH ROAD

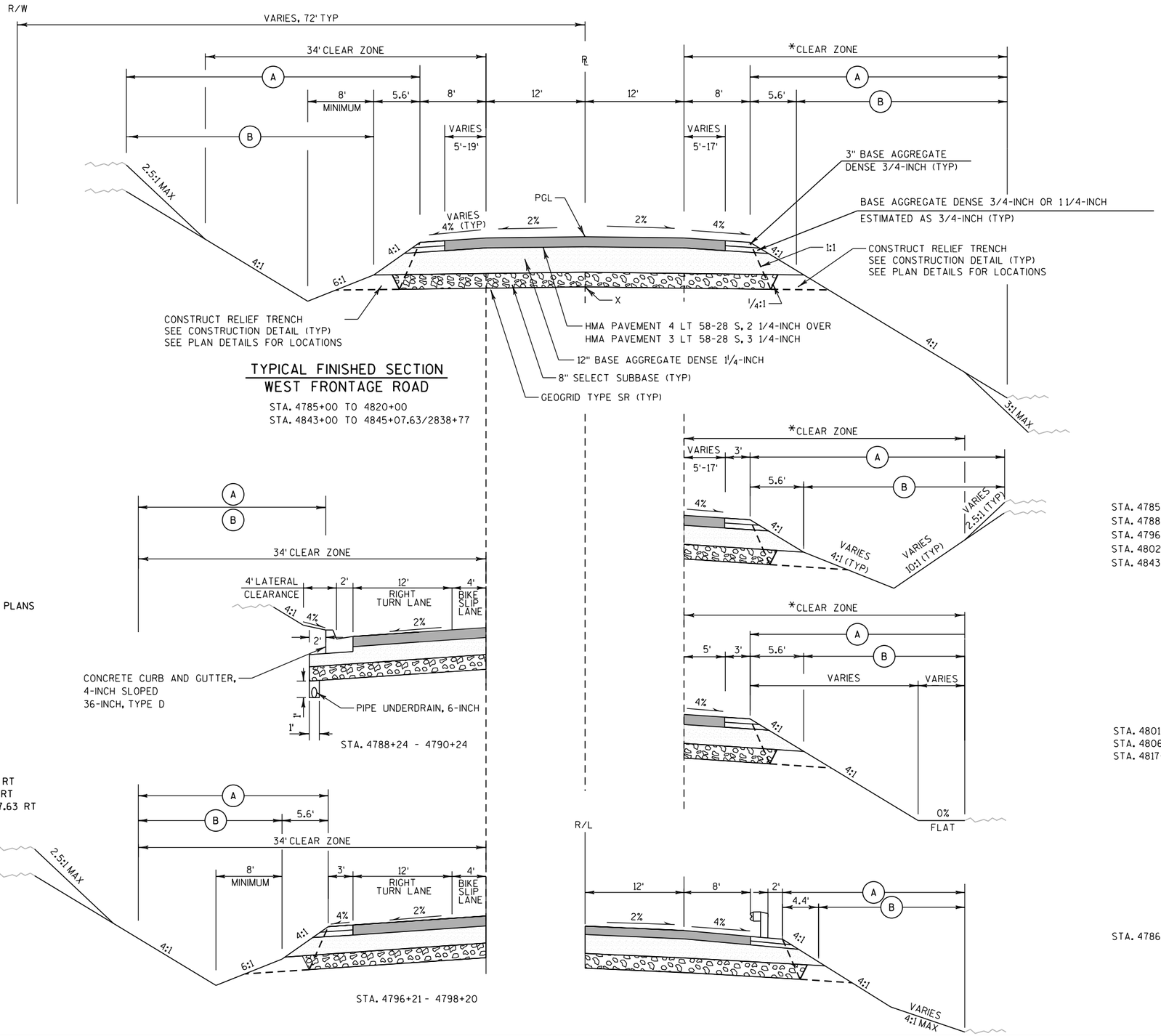
STA. 47+00 TO 49+73



TYPICAL EXISTING SECTION

GRANDVIEW PARKWAY

STA. 93+00 TO 94+00



TYPICAL FINISHED SECTION
WEST FRONTAGE ROAD

STA. 4785+00 TO 4820+00
STA. 4843+00 TO 4845+07.63/2838+77

LEGEND

(A) SEEDING MIXTURE NO. 30, SPECIAL* AND FERTILIZER TYPE B, SPECIAL

(B) 4" SALVAGED TOPSOIL AND MULCHING OR E-MAT

*EXCEPT USE SEEDING MIXTURE NO. 40 AT AREAS DESIGNATED IN THE EROSION CONTROL PLANS

NOTE:

PGL = POINT REFERRED TO ON PROFILE
X = POINT REFERRED TO ON CROSS SECTION
* = 34' CLEAR ZONE, STA. 4785+00 TO 4820+11 RT
32' CLEAR ZONE, STA. 4820+11 TO 4828+54 RT
34' CLEAR ZONE, STA. 4828+54 TO 4845+07.63 RT

STA. 4788+24 - 4790+24

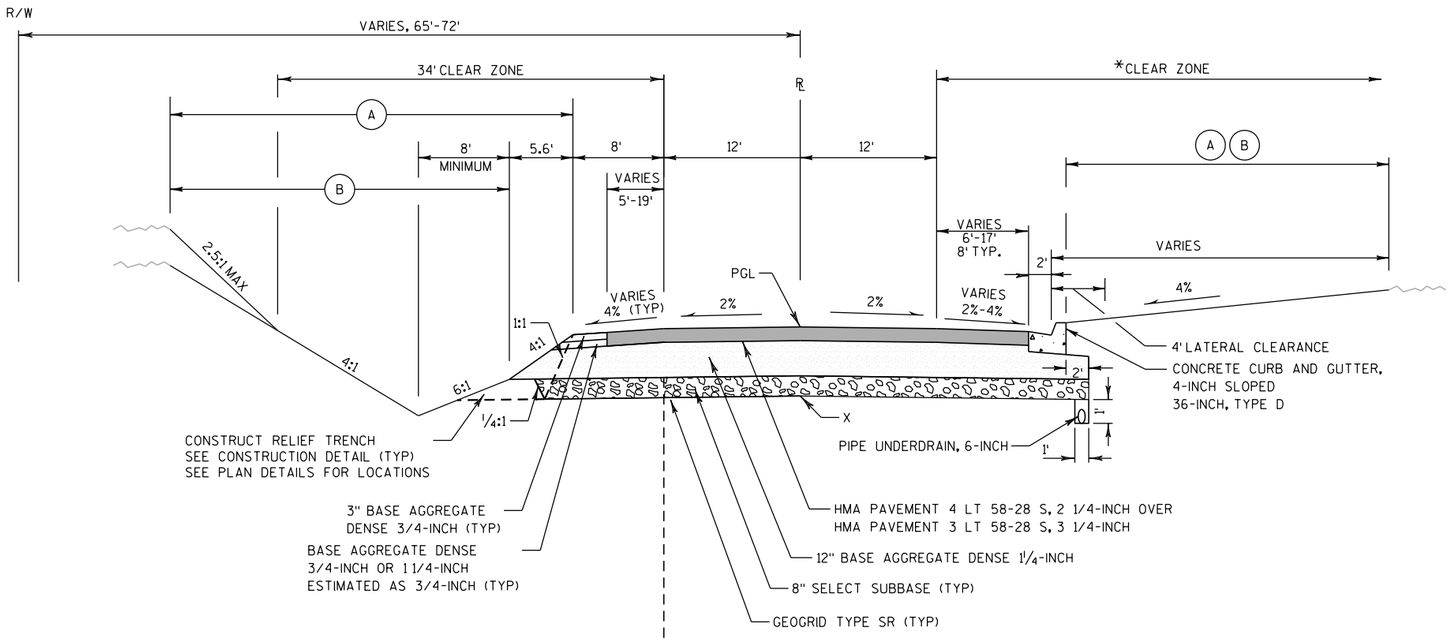
STA. 4796+21 - 4798+20

STA. 4785+00 - 4786+35
STA. 4788+76 - 4790+50
STA. 4796+50 - 4800+50
STA. 4802+00 - 4806+00
STA. 4843+00 - 4845+07.63

STA. 4801+00 - 4801+50
STA. 4806+00 - 4810+50
STA. 4817+50 - 4819+50

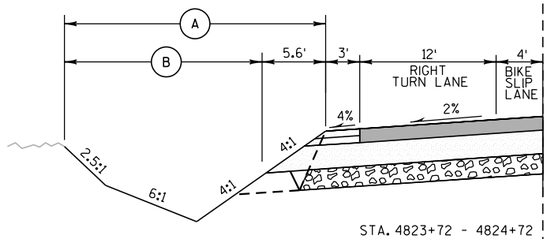
STA. 4786+35 - 4788+76

PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	TYPICAL SECTIONS: WEST FRONTAGE ROAD	SHEET 7	E

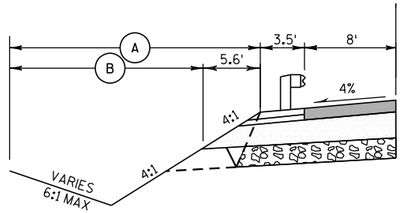


TYPICAL FINISHED SECTION
WEST FRONTAGE ROAD

STA. 4820+00 TO 4843+00



STA. 4823+72 - 4824+72



STA. 4833+86 - 4836+24

LEGEND

(A) SEEDING MIXTURE NO. 30, SPECIAL* AND FERTILIZER TYPE B, SPECIAL

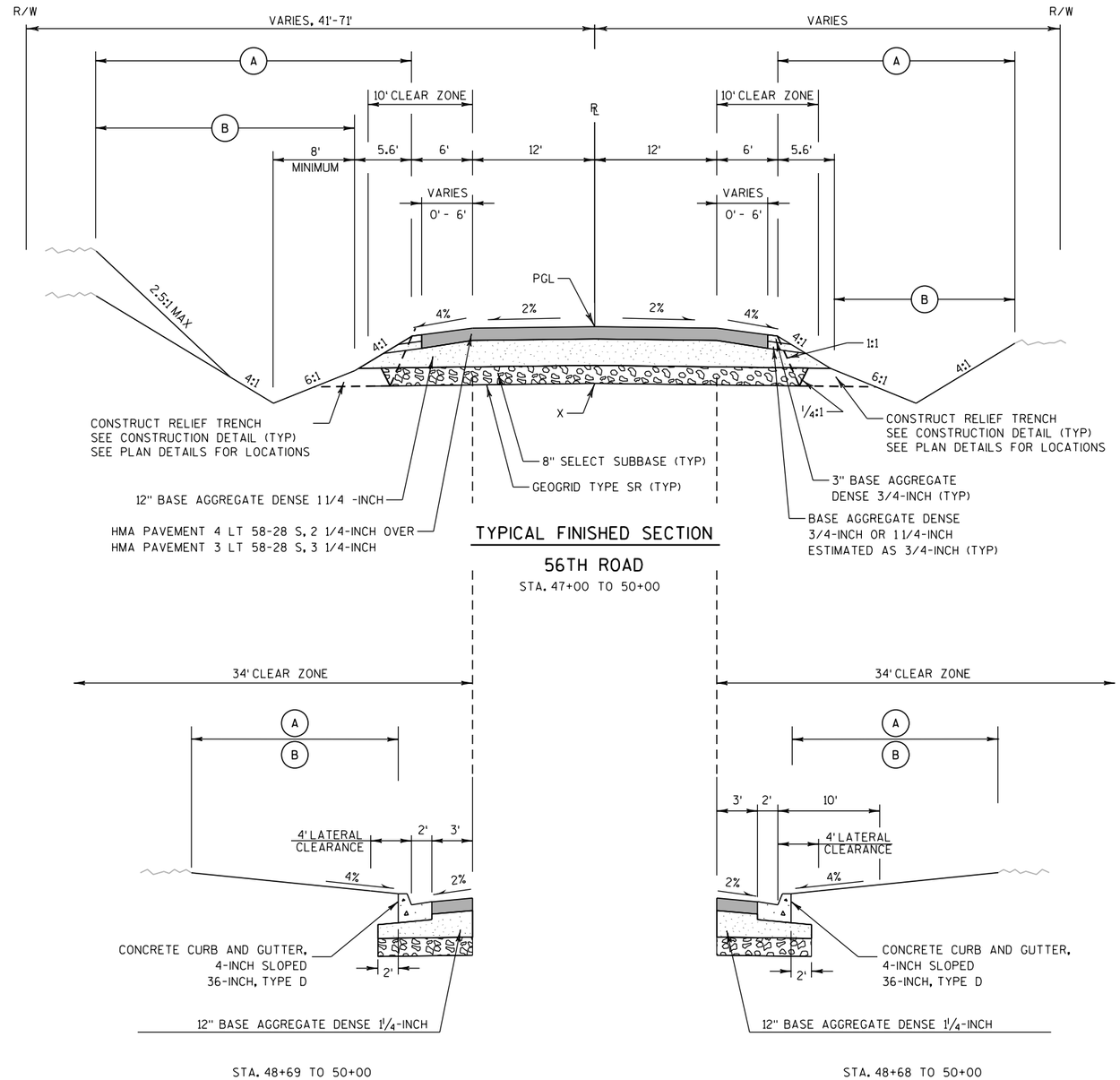
(B) 4" SALVAGED TOPSOIL AND MULCHING OR E-MAT

*EXCEPT USE SEEDING MIXTURE NO. 40 AT AREAS DESIGNATED IN THE EROSION CONTROL PLANS

NOTE:

PGL = POINT REFERRED TO ON PROFILE
X = POINT REFERRED TO ON CROSS SECTION
* = 34' CLEAR ZONE, STA. 4785+00 TO 4820+11 RT
32' CLEAR ZONE, STA. 4820+11 TO 4828+54 RT
34' CLEAR ZONE, STA. 4828+54 TO 4845+07.63 RT

PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	TYPICAL SECTIONS: WEST FRONTAGE ROAD	SHEET 8	E



TYPICAL FINISHED SECTION

56TH ROAD

STA. 47+00 TO 50+00

STA. 48+69 TO 50+00

STA. 48+68 TO 50+00

LEGEND

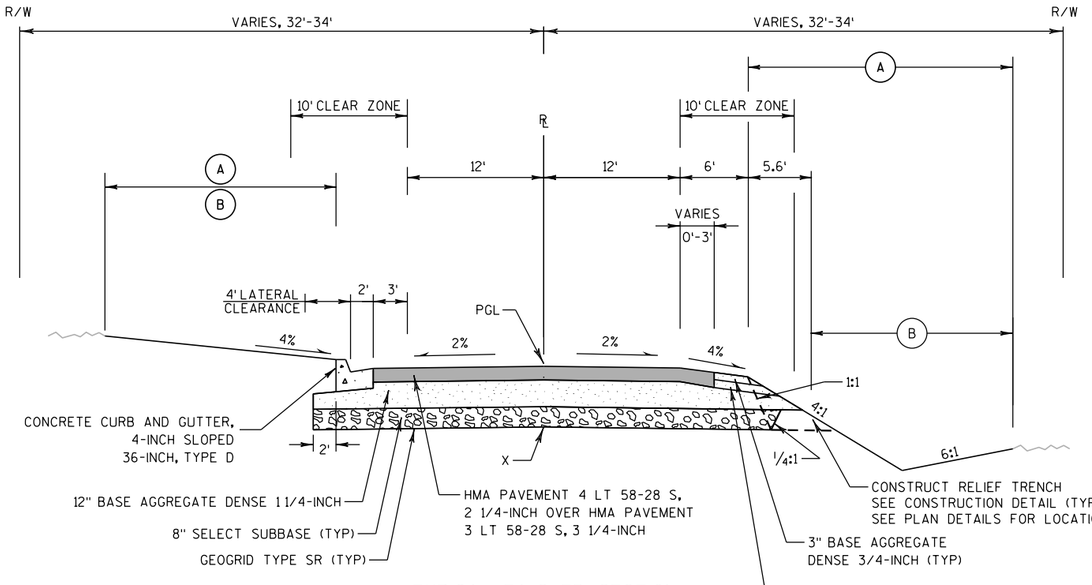
(A) SEEDING MIXTURE NO. 30, SPECIAL* AND FERTILIZER TYPE B, SPECIAL

(B) 4" SALVAGED TOPSOIL AND MULCHING OR E-MAT

*EXCEPT USE SEEDING MIXTURE NO. 40 AT AREAS DESIGNATED IN THE EROSION CONTROL PLANS

NOTE:

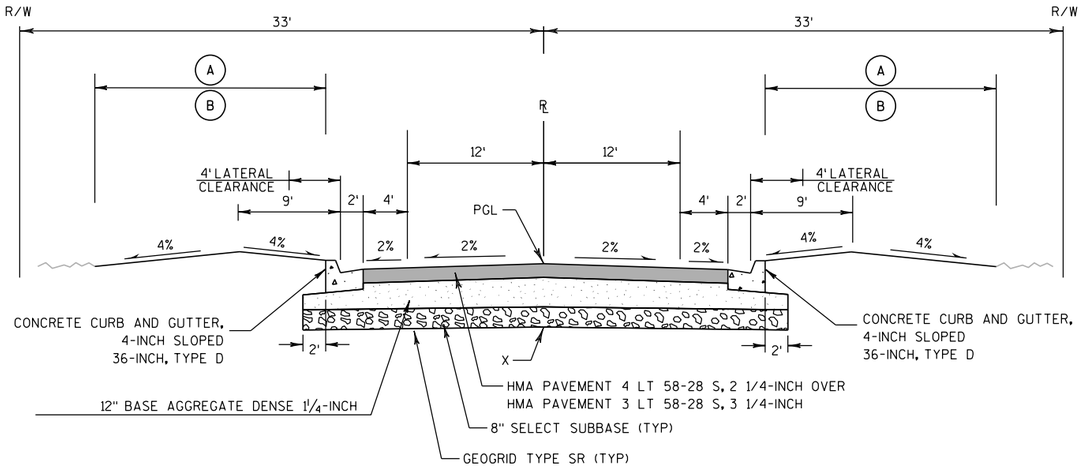
PGL = POINT REFERRED TO ON PROFILE
X = POINT REFERRED TO ON CROSS SECTION



TYPICAL FINISHED SECTION

LEETSBIR ROAD

STA. 76+50 TO 77+61



TYPICAL FINISHED SECTION

GRANDVIEW PARKWAY

STA. 93+00 TO 93+72

LEGEND

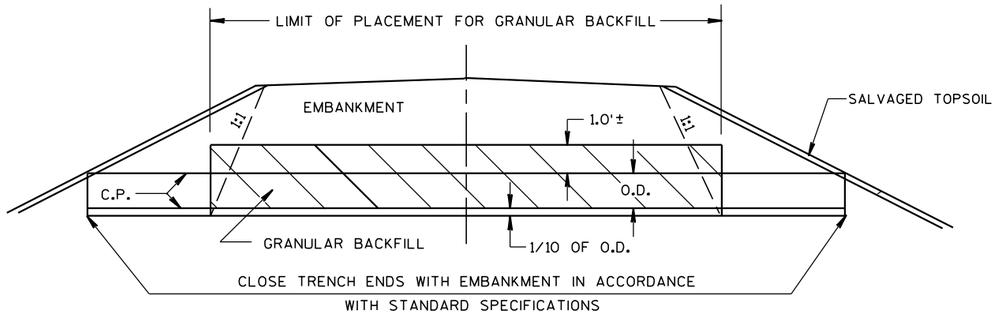
(A) SEEDING MIXTURE NO. 30, SPECIAL* AND FERTILIZER TYPE B, SPECIAL

(B) 4" SALVAGED TOPSOIL AND MULCHING OR E-MAT

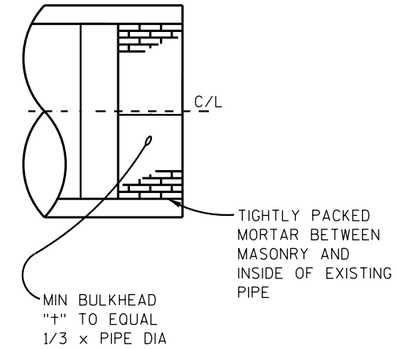
*EXCEPT USE SEEDING MIXTURE NO. 40 AT AREAS DESIGNATED IN THE EROSION CONTROL PLANS

NOTE:

PGL = POINT REFERRED TO ON PROFILE
X = POINT REFERRED TO ON CROSS SECTION

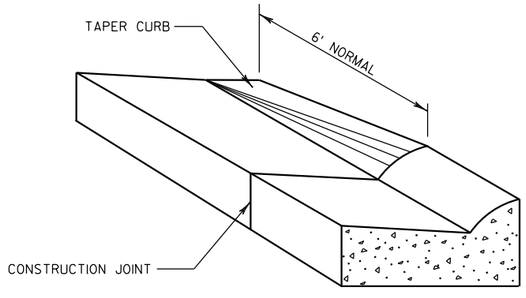


CULVERT BACKFILL DETAIL



TEMPORARY BULKHEAD PIPE MASONRY

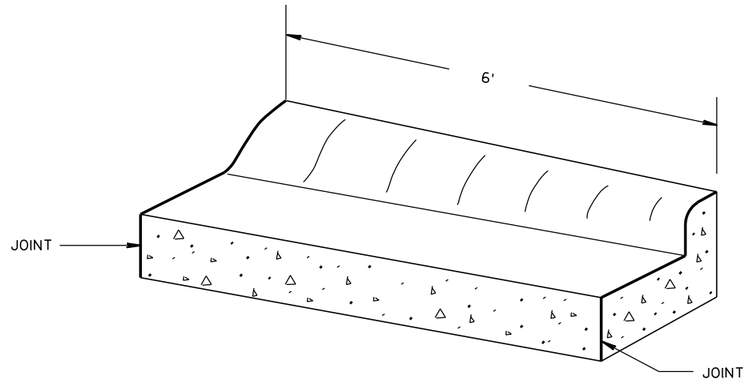
ITEM TO BE PAID FOR UNDER ITEM "SEALING PIPES"
FOR LOCATIONS SEE MISCELLANEOUS QUANTITIES SHEETS



CURB & GUTTER TERMINI DETAIL

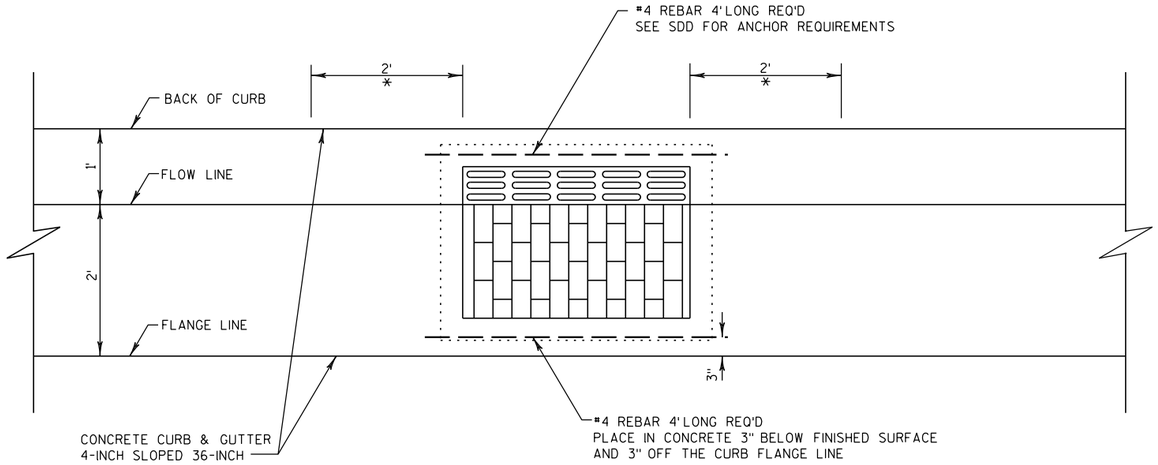
NOTE: USE 6 FT TRANSITION FOR CONCRETE AND ASPHALTIC CURB

100813



TRANSITION DETAIL

36" TYPE "D" CURB & GUTTER TO 30" TYPE "D" CURB & GUTTER
(TO BE MEASURED & PAID FOR AS 36" CONC. C&G)



PLAN VIEW

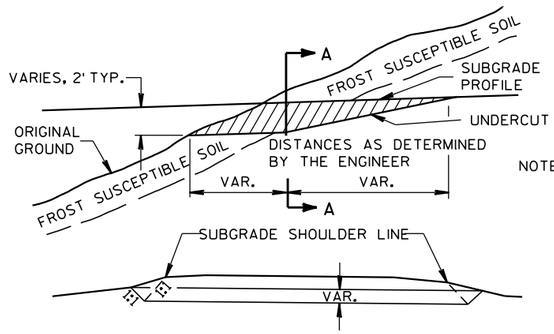
* TRANSITION STANDARD CURB HEAD TO MATCH THE TYPE HM INLET COVER.

NOTES

1. SEE SDD "INLET COVERS TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S" FOR ADDITIONAL INFORMATION.
2. THE TWO 2-FOOT LONG CURB TRANSITION SEGMENTS ARE PAID AS CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH.
3. THE TWO 4-FOOT LENGTHS OF #4 REBAR ARE INCIDENTAL TO THE BID ITEM "INLET COVERS TYPE HM".

INLET COVERS, TYPE HM

100813



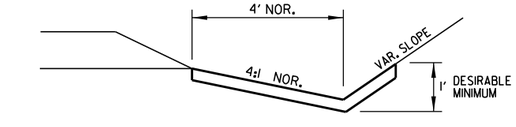
SECTION A-A

CROSS SECTION SHOWING UNDERCUT

EXCAVATION BELOW SUBGRADE AT CUTS

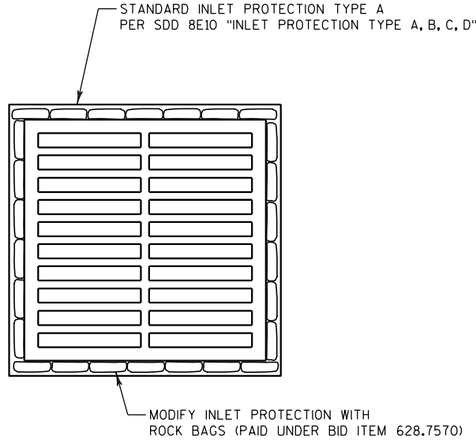
NOTE: EXACT LOCATIONS AND EXTENT OF E.B.S. SECTIONS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

THE FILL SECTION WITHIN 100' OF THE MOUTH OF THE CUT MUST BE KEPT 2' BELOW SUBGRADE UNTIL E.B.S. IS COMPLETED.



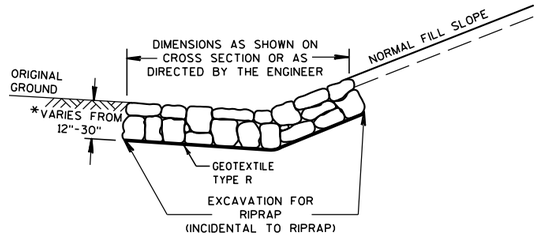
EROSION MAT DETAIL FOR DITCHES

081231



INLET PROTECTION TYPE A MODIFIED DETAIL

NOTE: ROCK BAGS SHALL BE LAID END TO END INSIDE THE TYPE A INLET PROTECTION.



DETAIL FOR RIPRAP IN DITCHES

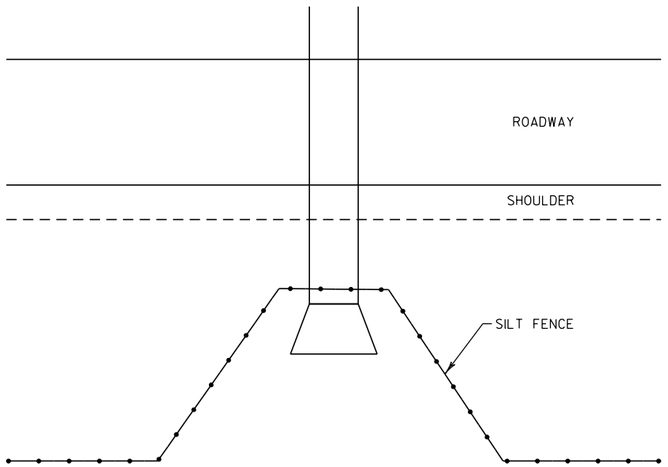
* PROVIDE DEPTHS AND VARIOUS RIPRAP SIZES IN ACCORDANCE WITH SECTION 606 OF THE STANDARD SPECIFICATIONS.

RUNOFF COEFFICIENT TABLE

	HYDROLOGIC SOIL GROUP											
	A			B			C			D		
	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)		
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56
MEDIAN STRIP- TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22 .28	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40
SIDE SLOPE- TURF			.25 .32			.27 .34			.28 .36			.30 .38
PAVEMENT: HMA												
ASPHALT	.70 - .95											
CONCRETE	.80 - .95											
BRICK	.70 - .80											
DRIVES, WALKS	.75 - .85											
ROOFS	.75 - .95											
GRAVEL ROADS, SHOULDERS	.40 - .60											

TOTAL PROJECT AREA = 111.12 ACRES (STH 11 TO STH 20 R/W AREAS)
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 13.89 ACRES (I.D. 1033-02-78 DISTURBED AREAS)

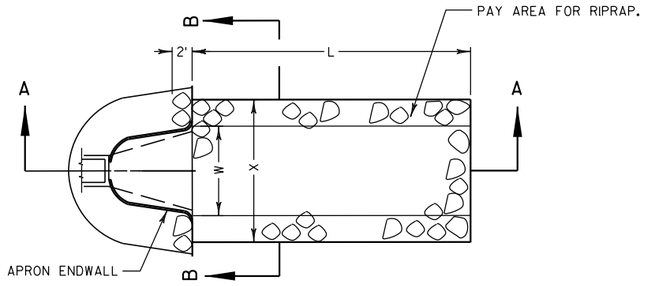
090805



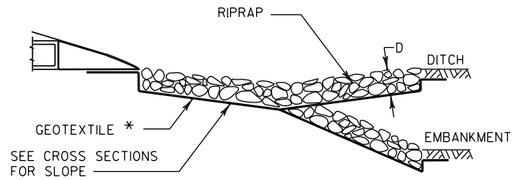
NOTE
SEE SILT FENCE SDD FOR ADDITIONAL INFORMATION.

100902

TYPICAL SILT FENCE DETAIL AT PIPE INLET



PLAN VIEW



SECTION A-A

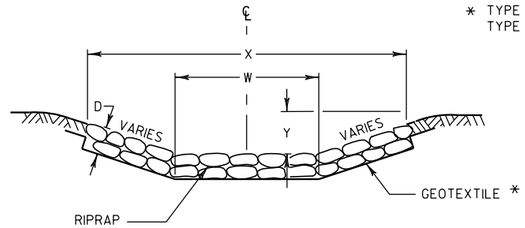
L = 3 x W (NOR) OR 10' MIN
OR AS INDICATED IN THE PLANS
OR AS DIRECTED BY THE ENGINEER

D = 12" FOR RIPRAP LIGHT
18" FOR RIPRAP MEDIUM
24" FOR RIPRAP HEAVY

X = W+2' FOR TYPICAL CULVERT
DISCHARGE INTO DITCH
W+5' FOR CULVERT DISCHARGE
DOWN EMBANKMENT SLOPE

Y = 0' FOR TYPICAL CULVERT
DISCHARGE INTO DITCH
12" FOR CULVERT DISCHARGE
DOWN EMBANKMENT SLOPE

* TYPE R (FOR RIPRAP LIGHT ONLY)
TYPE HR (FOR RIPRAP HEAVY AND MEDIUM ONLY)

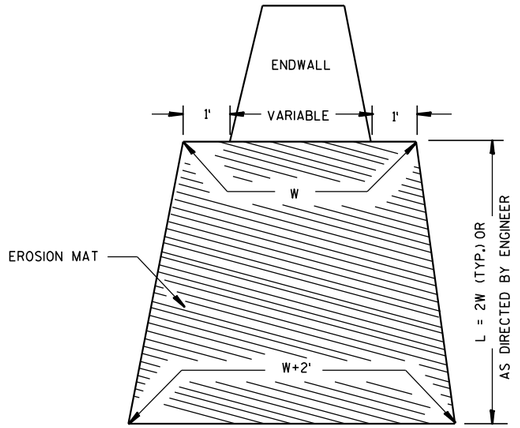


SECTION B-B

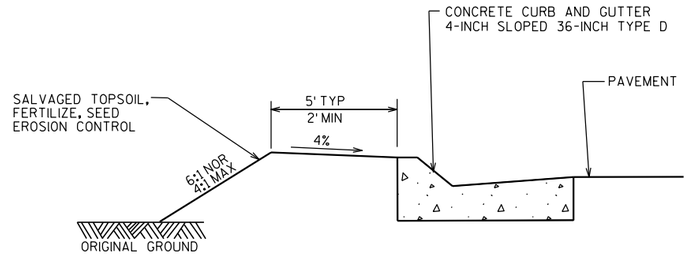
RIPRAP AND GEOTEXTILE DETAIL AT APRON ENDWALLS

SEE EROSION CONTROL PLAN FOR LOCATIONS

100914

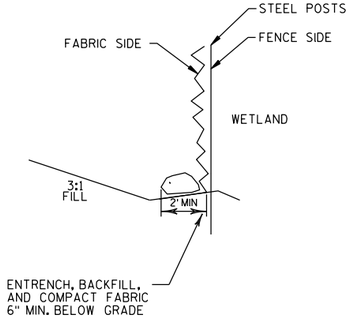


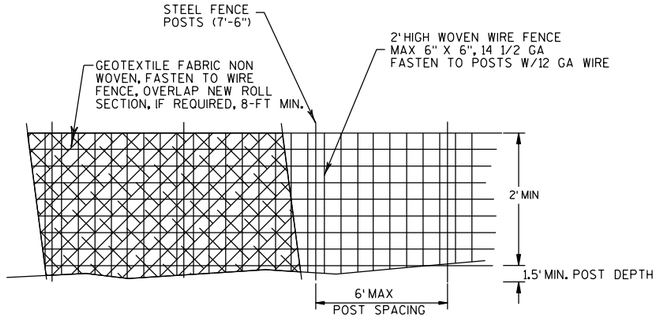
EROSION MAT TREATMENT AT CULVERTS



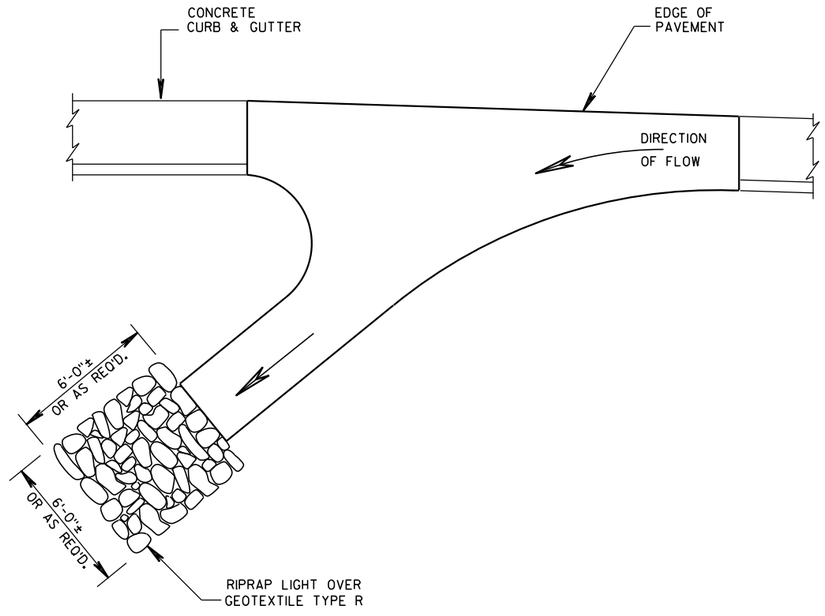
TYPICAL PARTIAL SECTION
AT INTERSECTION RADII

081230

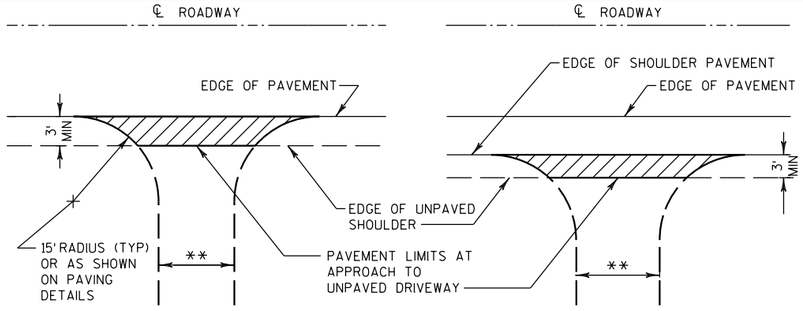




HEAVY DUTY SILT FENCE



RIPRAP AT ASPHALTIC FLUME

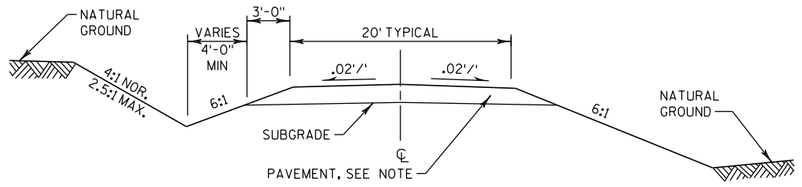


** SEE PAVING DETAILS FOR WIDTH REQUIRED.

PLAN VIEW

PLAN VIEW
(PAVED SHOULDER ON HIGHWAY)

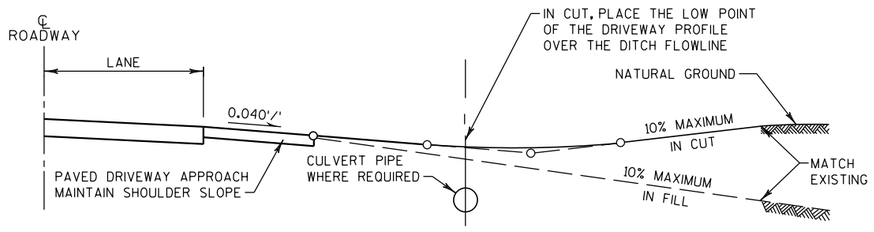
RURAL DRIVEWAY INTERSECTION



IN CUT

IN FILL

TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE



TYPICAL DRIVEWAY PROFILES

NOTES

1. WHERE DRIVEWAY IS PAVED, APPROACH PAVEMENT SHOULD BE EXTENDED TO MATCH DRIVEWAY PAVEMENT. SAWCUT IS REQUIRED.

2. DRIVEWAY SURFACE TO BE SAME AS EXISTING WITH MINIMUM SECTION OF:

   ASPHALTIC SURFACE (3 OR 4-INCH) DRIVEWAYS AND FIELD ENTRANCES OVER BASE AGGREGATE DENSE 3/4 -INCH (4-INCH)

   OR

   CONCRETE DRIVEWAY 6-INCH OVER BASE AGGREGATE DENSE 3/4 -INCH (4-INCH)

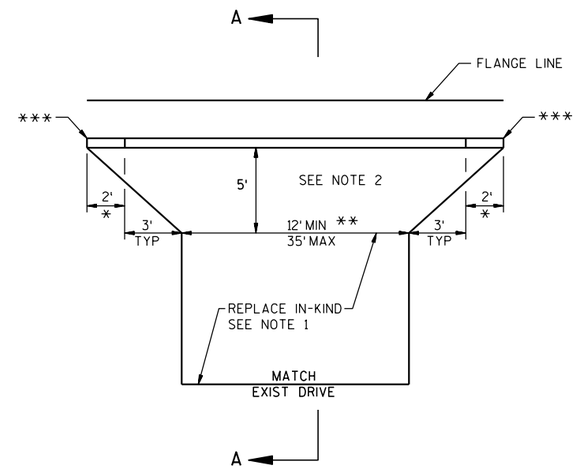
   OR

   BASE AGGREGATE DENSE 3/4 -INCH (6-INCH)

RURAL DRIVEWAY

100902

2



PLAN VIEW

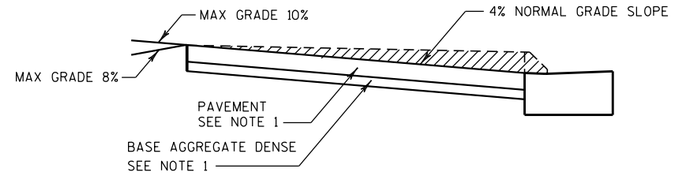
* TAPER CURB HEAD (1.5" TO 6")
** SEE PAVING DETAILS FOR WIDTH REQUIRED
*** STATION SHOWN ON PAVING DETAILS

NOTES

1. DRIVEWAY SURFACE TO BE SAME TYPE AND THICKNESS AS EXISTING WITH MINIMUM SECTION OF:

   ASPHALTIC SURFACE (3-INCH OR 4-INCH MIN.) DRIVEWAYS AND FIELD ENTRANCES OVER BASE AGGREGATE DENSE 3/4-INCH (4-INCH)
   OR
   BASE AGGREGATE DENSE 3/4-INCH (6-INCH)

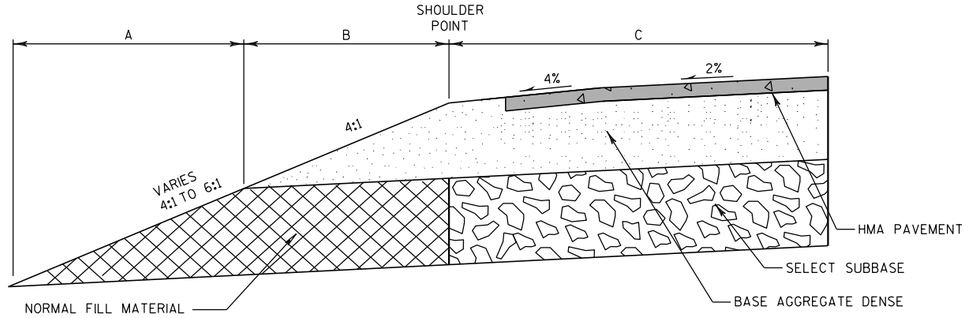
2. ALL URBAN DRIVEWAYS TO BACK OF APRON TO BE PAID FOR AS ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES UNLESS OTHERWISE DESIGNATED IN PLANS



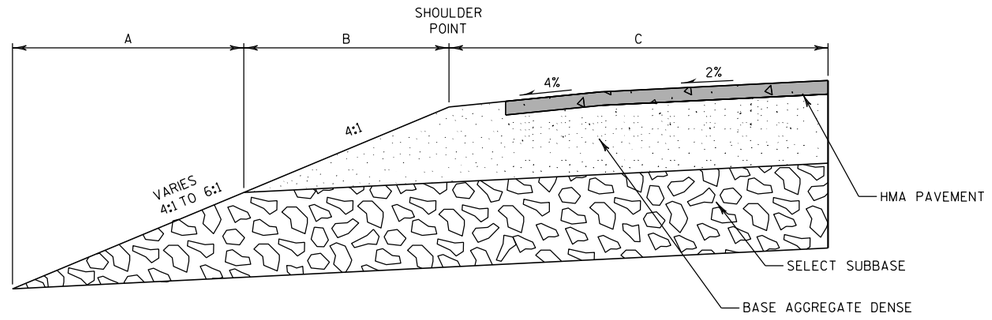
SECTION A-A

110210(MOD)

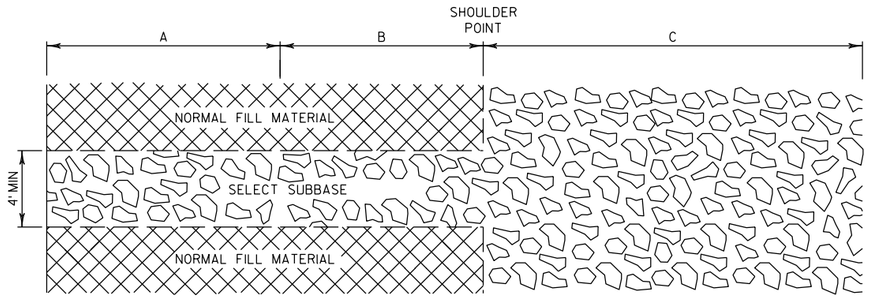
URBAN DRIVEWAY



TYPICAL HALF SECTION WITHOUT RELIEF TRENCH



TYPICAL HALF SECTION WITH RELIEF TRENCH



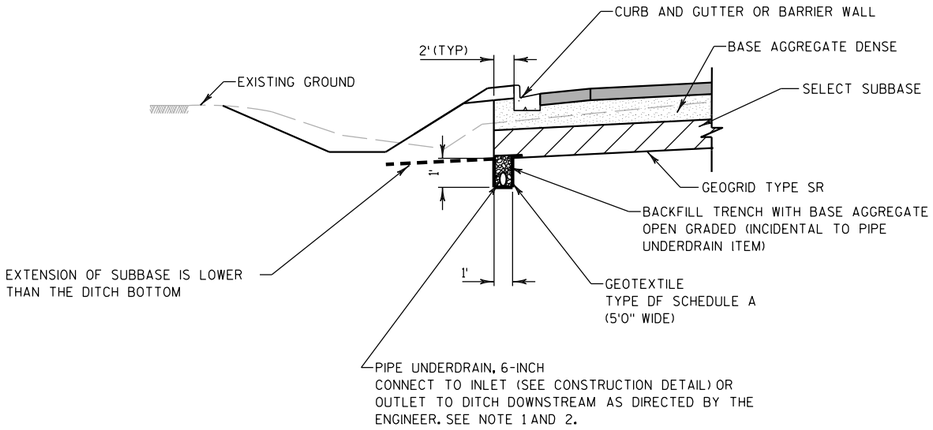
RELIEF TRENCH PLAN VIEW

RELIEF TRENCH

SEE PLAN DETAILS FOR RELIEF TRENCH LOCATIONS.

NOTES: EXCAVATION FOR RELIEF TRENCHES TO BE PAID UNDER THE ITEM EXCAVATION COMMON.
DO NOT PLACE TOPSOIL AT RELIEF TRENCH.

110210(MOD)



PIPE UNDERDRAIN IN URBAN SECTIONS

SEE PLAN DETAILS FOR PIPE UNDERDRAIN LOCATIONS

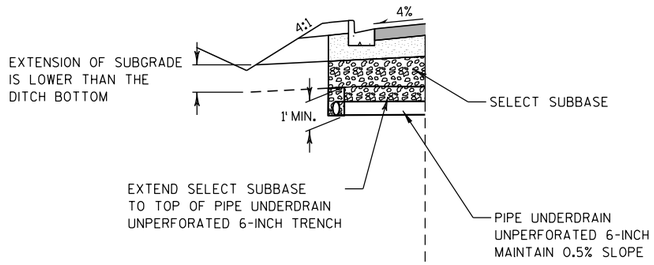
NOTES:

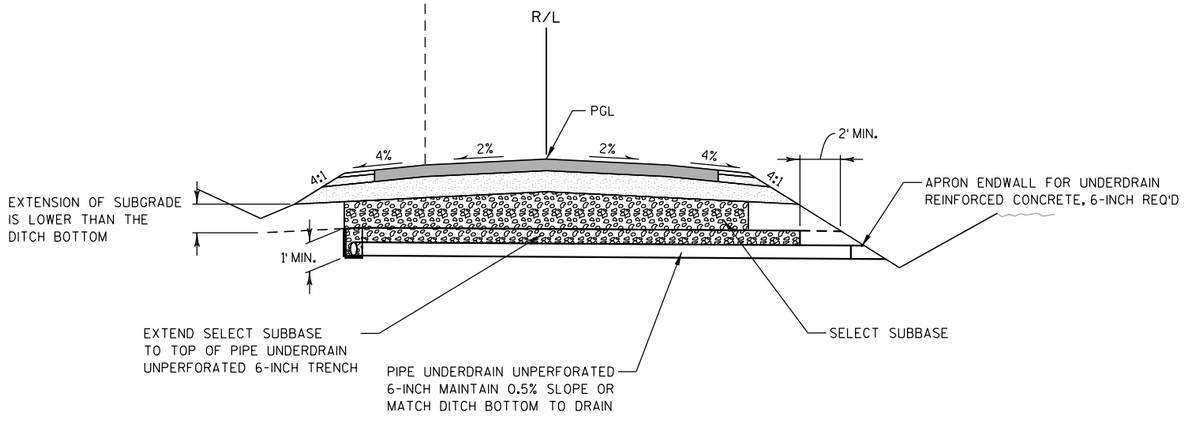
1. PIPE UNDERDRAIN UNPERFORATED REQUIRED AT LOCATIONS WHERE UNDERDRAIN IS REQUIRED TO CONNECT TO DITCHES OUTSIDE THE EBS AREA.

2. PIPE UNDERDRAIN UNPERFORATED REQUIRED AT LOCATIONS WHERE UNDERDRAIN IS REQUIRED TO OUTFALL IN DITCHES ON THE OPPOSITE SIDE OF THE ROAD (SEE UNDERDRAIN LATERAL CROSSING OUTLET DETAIL)

3. USE APRON ENDWALLS FOR UNDERDRAIN REINFORCED CONCRETE AT ALL DITCH OUTFALLS OF PIPE UNDERDRAIN.

4. ADJUST LATERAL LOCATION OF PIPE UNDERDRAIN AS NECESSARY TO AVOID CONFLICTS WITH THE STORM SEWER.





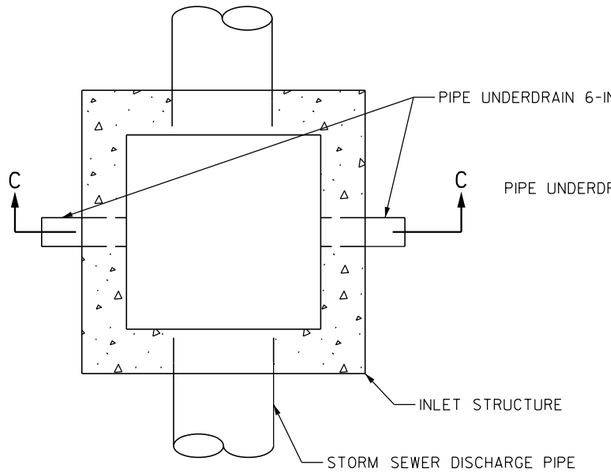
UNDERDRAIN LATERAL CROSSING OUTLET

SEE PLAN DETAILS FOR LOCATIONS

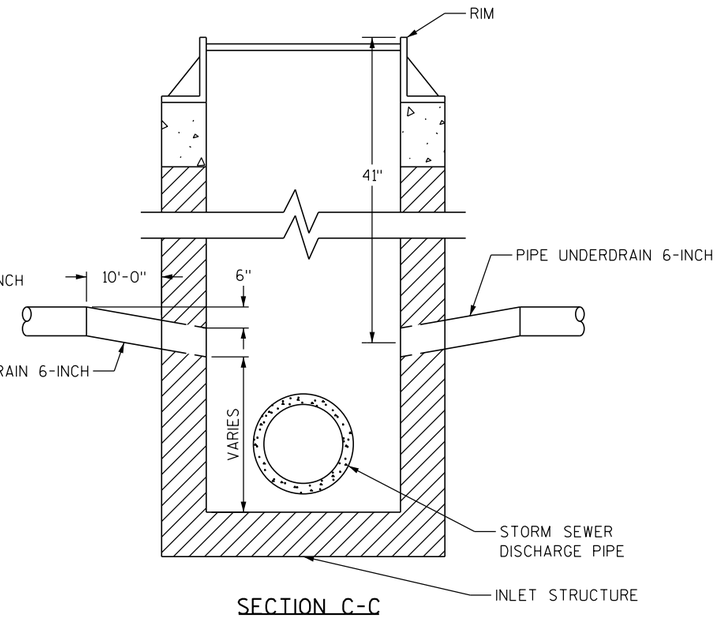
2

NOTES

1. CONNECTIONS TO INLETS OR MANHOLES SHALL USE PIPE UNDERDRAIN, 6-INCH.
2. PROVIDE TWO 6" DIA. OPENINGS FOR UNDERDRAIN PIPE A MINIMUM OF 41" BELOW THE RIM ELEVATION.



PLAN VIEW

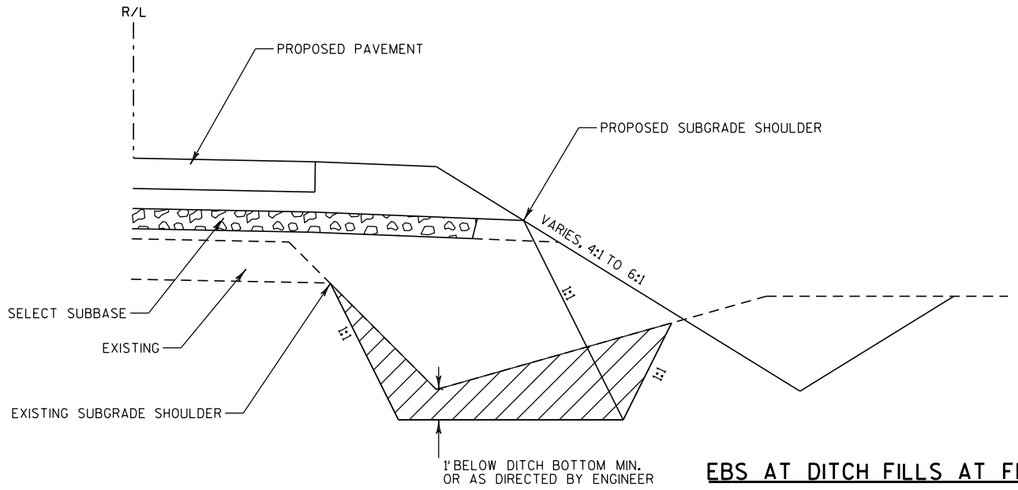


SECTION C-C

UNDERDRAIN OUTFALL AT INLET

100514 (MOD)

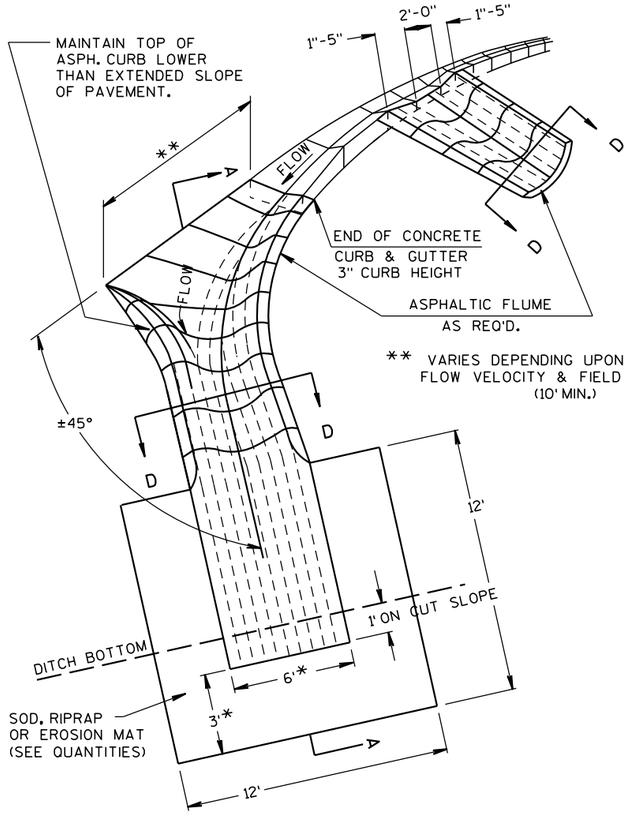
2



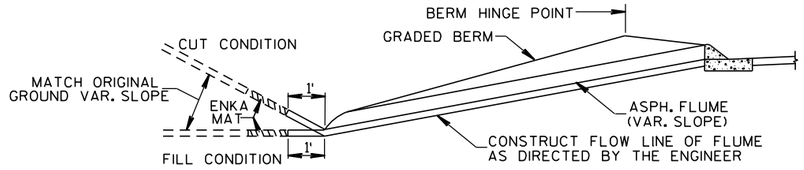
NOTES:

1. UTILIZE DETAIL FOR ALL AREAS WHERE FILL IS TO BE PLACED OVER AN EXISTING DITCH.
2. EXCAVATE AREA TO A MINIMUM OF 1-FOOT BELOW EXISTING DITCH BOTTOM OR AS DIRECTED BY ENGINEER IN THE FIELD.
3. EXACT LOCATIONS AND EXTENTS OF EBS SECTIONS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

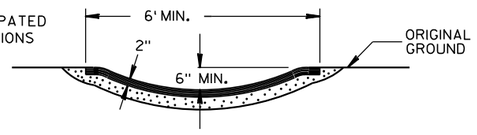
EBS AT DITCH FILLS AT FRONTAGE ROADS



** VARIES DEPENDING UPON ANTICIPATED FLOW VELOCITY & FIELD CONDITIONS (10' MIN.)

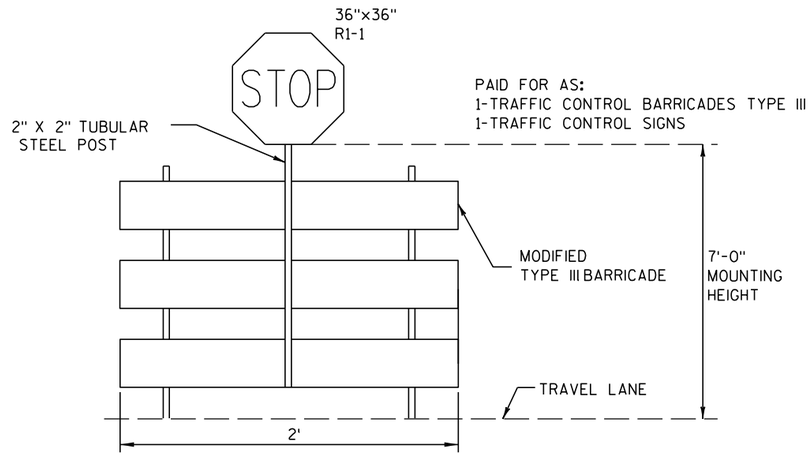


SECTION A-A

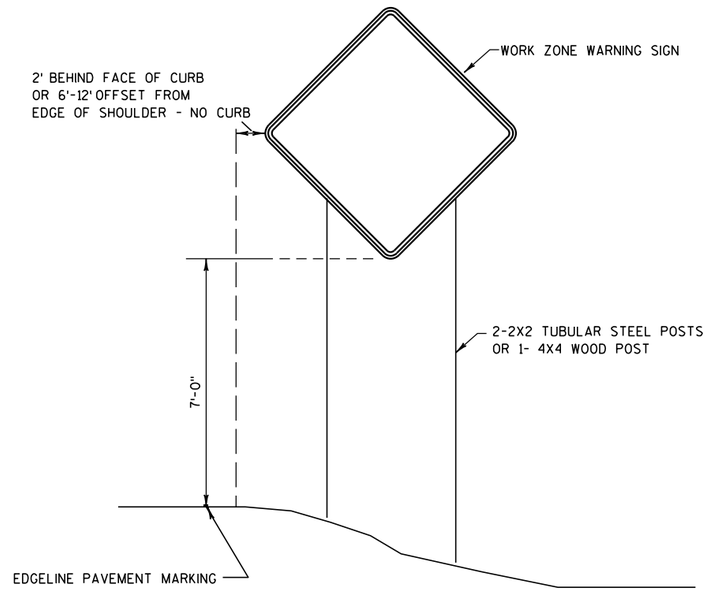


SECTION D-D

ASPHALTIC FLUME DETAIL AT RURAL INTERSECTIONS



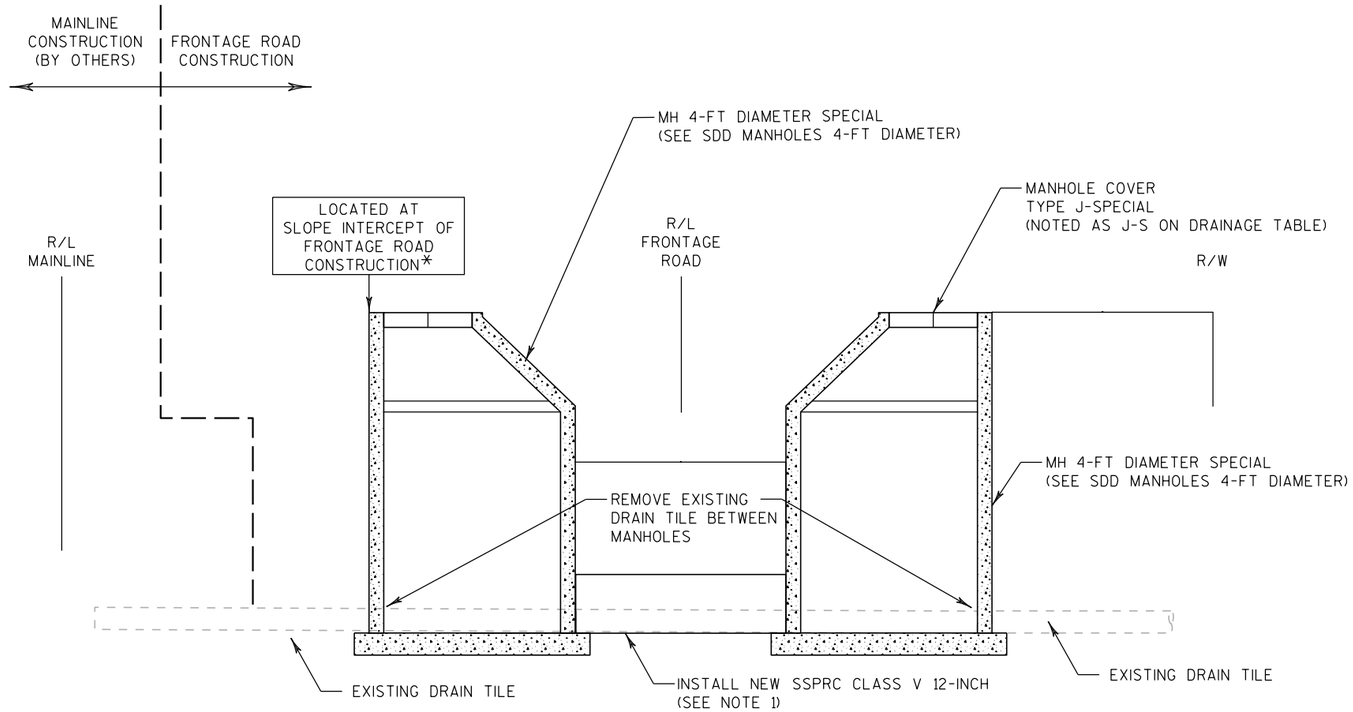
TEMPORARY STOP SIGN



TYPICAL TEMPORARY TRAFFIC CONTROL DETAIL
MOUNTING ON FIXED SUPPORT

LONG TERM
7 DAYS OR MORE

2



* LOCATION CAN BE ADJUSTED AS NEEDED IF APPROVED BY THE ENGINEER

STAGING

1. FRONTAGE ROAD CONSTRUCTION:

   CONSTRUCT MANHOLE 4-FT DIAMETER SPECIAL. CONNECT EXISTING TILE TO MANHOLE. REPLACE EXISTING TILE WITH SSPRC CLASS V 12-INCH BETWEEN MANHOLES.

NOTES

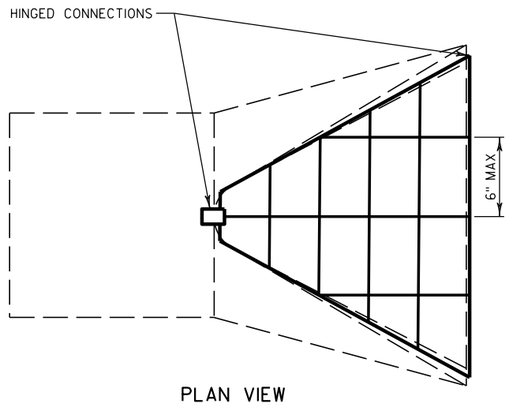
1. IF EXISTING DRAIN TILE IS LARGER THAN 12", MATCH THE EXISTING SIZE IN THE FIELD.
2. GRADING AT MANHOLES WITHIN THE CLEAR ZONE OF THE FRONTAGE ROADS AND MAINLINE IS TO BE FLUSH WITH TOP OF THE MANHOLE.
3. PIPE CONNECTION TO INLET IS INCIDENTAL.

DRAIN TILE CONFIGURATION

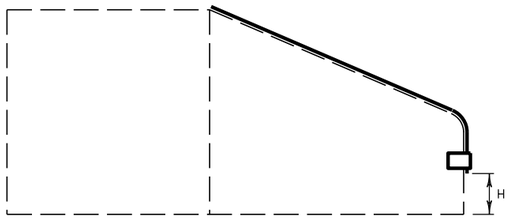
(FOR FRONTAGE ROAD CROSSINGS)

120814 (MOD)

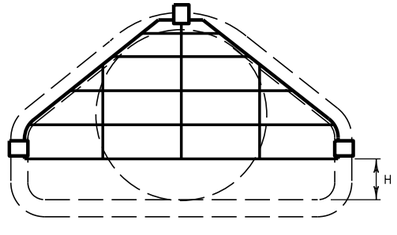
2



PLAN VIEW



SIDE VIEW



END VIEW

GRATE CLEARANCE HEIGHT

ROUND PIPE		ARCH PIPE	
PIPE SIZE	H	PIPE SIZE	H
12"	2 1/2"	22" - 29"	4"
15"	3"	36" - 44"	5"
18" - 24"	4"	51" - 65"	6"
27" - 36"	5"	73" - 85"	7"
42" - 54"	6"		
60" - 72"	7"		
78" - 90"	8"		

GRATE BAR SIZES

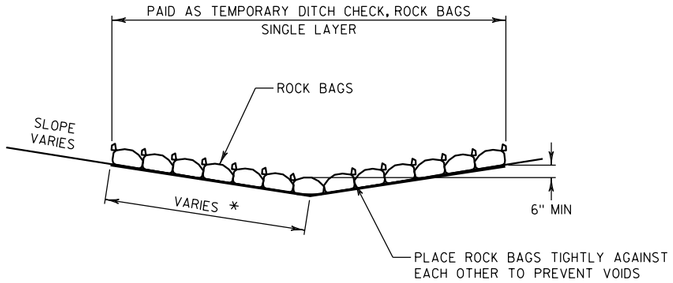
(STANDARD DESIGN)

	PIPE SIZE	HOLE DIAMETER REQUIRED	BOLT DIAMETER	BAR SIZE
ROUND PIPE	12" - 24"	3/4"	5/8"	5/8"
	27" - 48"	7/8"	3/4"	3/4"
	54" - 90"	1 1/8"	1"	1"
ARCH PIPE	22" - 29"	3/4"	5/8"	5/8"
	36" - 59"	7/8"	3/4"	3/4"
	65" - 85"	1 1/8"	1"	1"

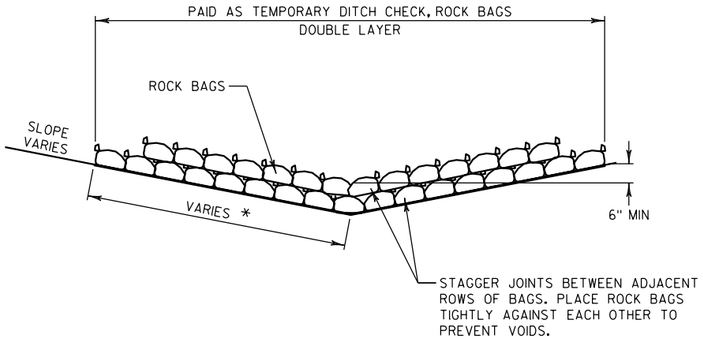
BOLT LENGTH = PIPE WALL THICKNESS + 2 1/2"

PIPE GRATE

100820



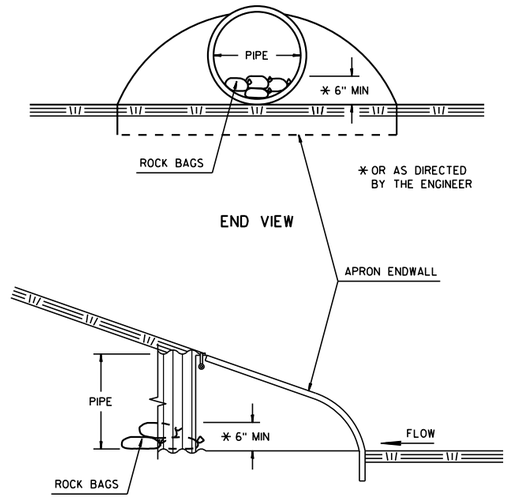
SIDE VIEW (SINGLE LAYER)



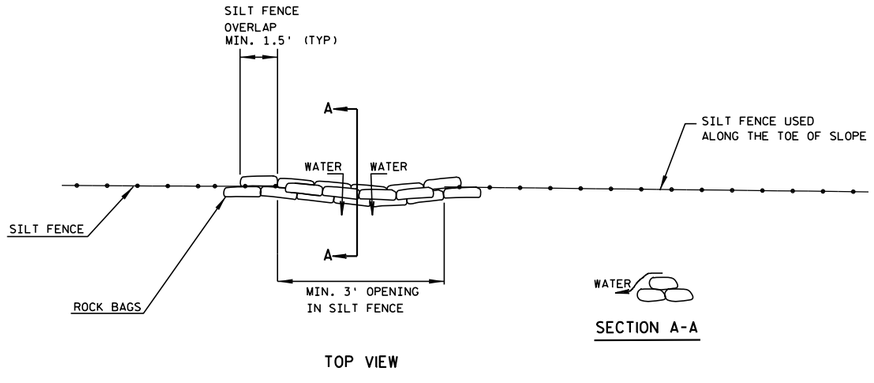
* LENGTH AND NUMBER OF BAGS MAY VARY DEPENDING ON DESIRED DEPTH OF WATER POOL.

SIDE VIEW (DOUBLE LAYER)

TEMPORARY DITCH CHECK, ROCK BAGS, SINGLE LAYER AND DOUBLE LAYER



CULVERT PIPE ENDS

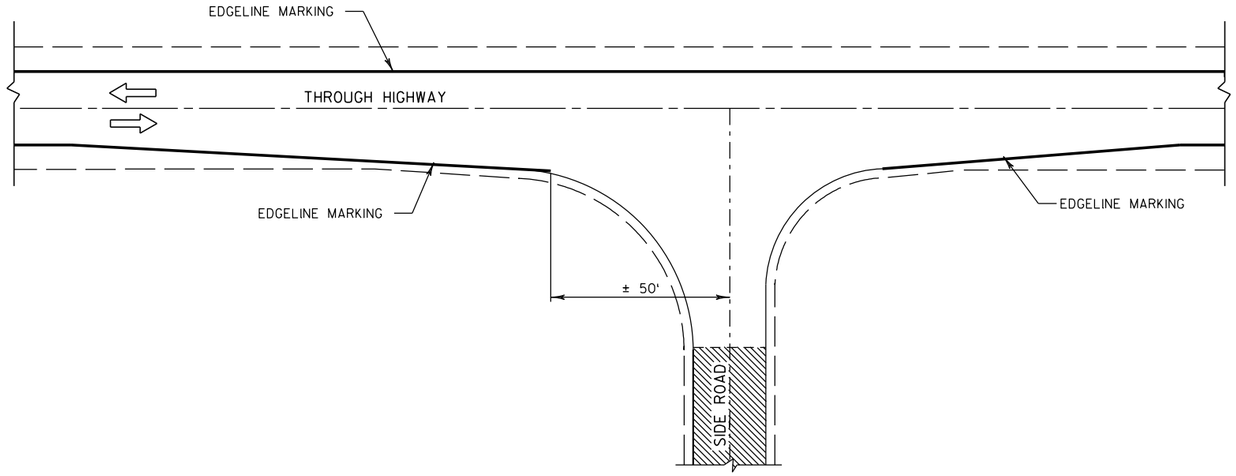


ROCK BAGS USED FOR SILT FENCE RELIEF DETAIL

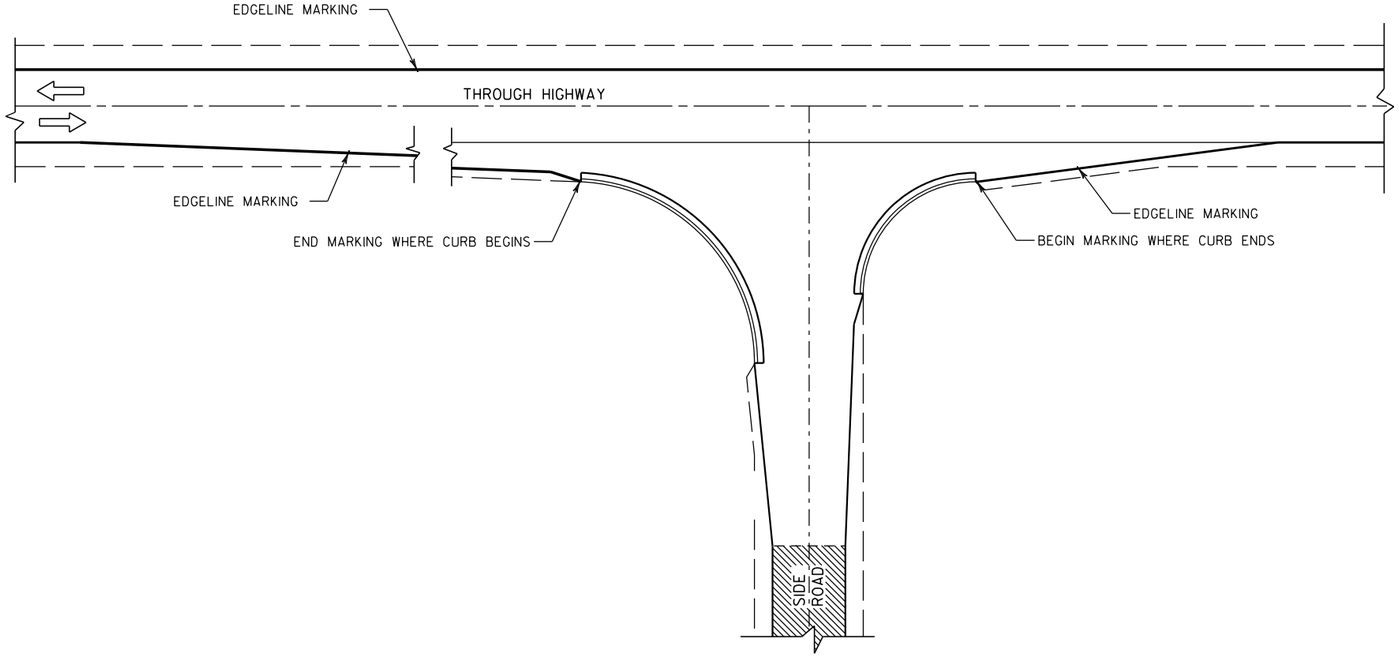
ROCK BAGS

100903

2



MINOR INTERSECTION WITHOUT CURBS
TYPICAL MARKING

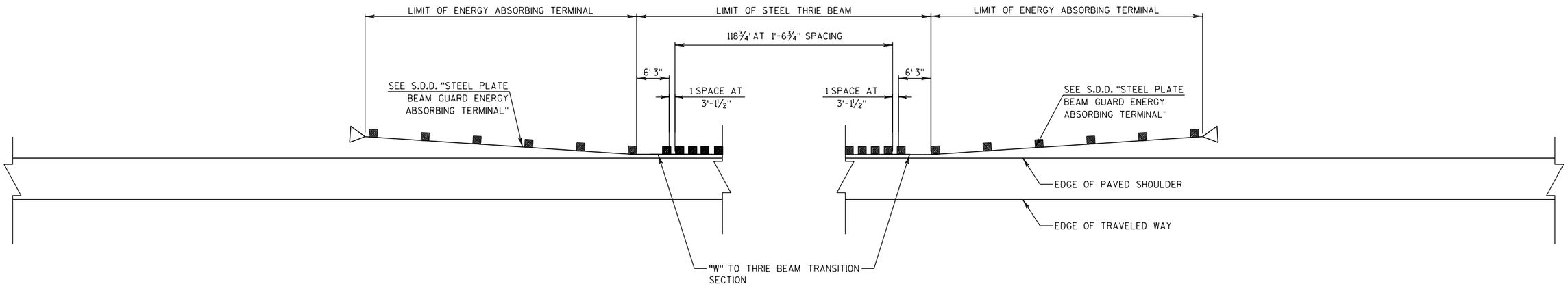


MINOR INTERSECTION WITH CURBS
TYPICAL MARKING

MINOR INTERSECTION EDGELINE MARKING

100803

2



STEEL THRIE BEAM AND BEAM GUARD TERMINAL LAYOUT

WEST FRONTAGE ROAD & 56TH ROAD INTERSECTION

PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	CONSTRUCTION DETAILS: WEST FRONTAGE ROAD	SHEET 25	E

2

N

R/L 56TH ROAD

46 EXIST R/W

48 56TH ROAD

50

REMOVE SMALL PIPE CULVERT (1 - 12" CPCS)

PROP R/W

EXIST R/W

CAUTION

REMOVE MARKER

R/L WEST FRONTAGE ROAD

EXIST R/W

PROP R/W

BEGIN PROJECT
I.D. 1033-02-78
STA 4785+00
= MATCH PROJECT
I.D. 1030-24-74

TLE

EXIST R/W

4782 4784 4786 4788 4790 4792

WEST FRONTAGE ROAD

MATCHLINE 4793+00

R/L IH 94

778 780 782 784 786 788 790 792

IH 94 SB

IH 94 NB

R/L EAST FRONTAGE ROAD

EAST FRONTAGE ROAD

5788 5790 5792

EXIST R/W

PROP R/W

PROP R/W

PLE

EXIST R/W

EXIST R/W

PROP R/W

PROP R/W

TLE

TLE

REMOVAL LEGEND

- CLEARING AND GRUBBING (I.D.)
- CLEARING AND GRUBBING (STA.)
- REMOVING CURB AND GUTTER
- REMOVING CONCRETE BARRIER
- REMOVING FENCE
- REMOVING GUARDRAIL
- REMOVING INLETS
- REMOVING MANHOLES
- SLOPE INTERCEPT
- RM — REMOVING STORM SEWER, CULVERTS, OR DRAIN TILE

PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	REMOVAL PLAN: WEST FRONTAGE ROAD	SHEET 26	E

REMOVAL LEGEND

- CLEARING AND GRUBBING (I.D.)
- CLEARING AND GRUBBING (STA.)
- REMOVING CURB AND GUTTER
- REMOVING CONCRETE BARRIER
- REMOVING FENCE
- REMOVING GUARDRAIL
- REMOVING INLETS
- REMOVING MANHOLES
- SLOPE INTERCEPT
- RM – REMOVING STORM SEWER, CULVERTS, OR DRAIN TILE

N

EXIST R/W

EXIST R/W

LEETSBIR ROAD

R/L LEETSBIR ROAD

CAUTION

REMOVE SMALL PIPE CULVERT (1 - 36" CPCM)

PROP R/W

REMOVE SMALL EXIST R/W PIPE CULVERT (1 - 18" CPCS)

REMOVE MARKERS

TLE

REMOVE SMALL PIPE CULVERT (1 - 30" CPCM)

EXIST R/W

REMOVE SMALL PIPE CULVERT (1 - 12" CPCS)

RECONSTRUCT MANHOLE

CAUTION

R/L WEST FRONTAGE ROAD

MATCHLINE 4793+00

4794 4796 4798 4800 4802 4804 4806

MATCHLINE 4807+00

WEST FRONTAGE ROAD

R/L IH 94

IH 94 SB

794 796 798 800 802 804 806

IH 94 NB

R/L EAST FRONTAGE ROAD

5794 5796 5798 5800 5802 5804 5806

EAST FRONTAGE ROAD

EXIST R/W

PROP R/W

PROP R/W

PLE

EXIST R/W

TLE

EXIST R/W

PROP R/W

PLE

TLE

PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	REMOVAL PLAN: WEST FRONTAGE ROAD	SHEET 27	E

FILE NAME : Z:\Racine\CADDS\14\14W\CDS\021102_RM.dgn PLOT DATE : 7/31/2017 PLOT BY : bjw PLOT NAME : PLOT SCALE : 1:100

2

REMOVAL LEGEND

- CLEARING AND GRUBBING (I.D.)
- CLEARING AND GRUBBING (STA.)
- REMOVING CURB AND GUTTER
- REMOVING CONCRETE BARRIER
- REMOVING FENCE
- REMOVING GUARDRAIL
- REMOVING INLETS
- REMOVING MANHOLES
- SLOPE INTERCEPT
- —RM— REMOVING STORM SEWER, CULVERTS, OR DRAIN TILE

N

CAUTION

REMOVE SMALL PIPE CULVERT (1 - 24" CPCM)

R/L WEST FRONTAGE ROAD

EXIST R/W

MATCHLINE 4807+00

MATCHLINE 4821+00

4808 4810 4812 4814 4816 4818 4820

WEST FRONTAGE ROAD

4819+14

R/L IH 94

IH 94 SB

808 810 812 814 816 818 820

IH 94 NB

R/L EAST FRONTAGE ROAD

5808 5810 5812 5814 5816 5818 5820

EAST FRONTAGE ROAD

EXIST R/W

PROP R/W

TLE

PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	REMOVAL PLAN: WEST FRONTAGE ROAD	SHEET 28	E

REMOVAL LEGEND

- CLEARING AND GRUBBING (I.D.)
- CLEARING AND GRUBBING (STA.)
- REMOVING CURB AND GUTTER
- REMOVING CONCRETE BARRIER
- REMOVING FENCE
- REMOVING GUARDRAIL
- REMOVING INLETS
- REMOVING MANHOLES
- SLOPE INTERCEPT
- —RM— REMOVING STORM SEWER, CULVERTS, OR DRAIN TILE

N

EXIST R/W

GRANDVIEW PARKWAY

R/L GRANDVIEW PARKWAY

CAUTION

REMOVE DRAIN TILE

APRON TO REMAIN

RECONSTRUCT MANHOLE

MATCHLINE 4821+00

EXIST R/W

R/L WEST FRONTAGE ROAD

4822 4824 4826 4828 4830 4830+75 4832 4834

WEST FRONTAGE ROAD

MATCHLINE 4835+00

PRIVATE DETENTION POND

REMOVE SMALL PIPE CULVERT (2 - 36" CPCM)

REMOVE SMALL PIPE CULVERT (1 - 12" CPCM)

TILE

SEALING PIPE STUB

R/L IH 94

IH 94 SB

822 824 826 828 830 832 834

IH 94 NB

R/L EAST FRONTAGE ROAD

5822 5824 5826 5828 5830 5832

EAST FRONTAGE ROAD

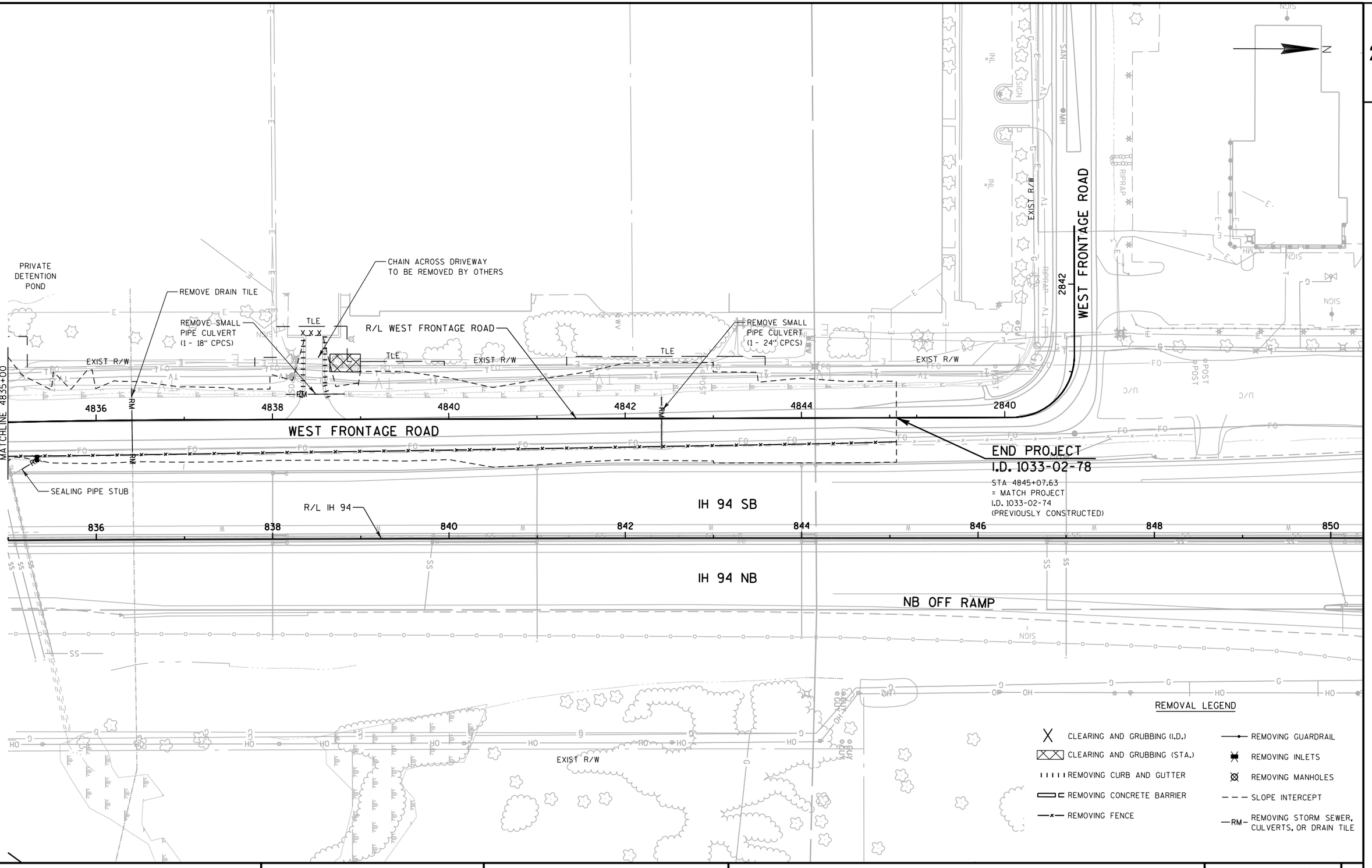
EXIST R/W

PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	REMOVAL PLAN: WEST FRONTAGE ROAD	SHEET 29	E

FILE NAME : Z:\Racine\CADDS\14\14W\CDS\021104_RM.dgn PLOT DATE : 7/31/2017 PLOT BY : bjw PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

2



PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	REMOVAL PLAN: WEST FRONTAGE ROAD	SHEET 30	E

PAVEMENT DETAIL LEGEND

- (AP03) HMA PAVEMENT 4 LT 58-28 S, 2¼-INCH (UPPER LAYER) HMA PAVEMENT 3 LT 58-28 S, 3¼-INCH (LOWER LAYER)
- (AG01) BASE AGGREGATE DENSE ¾-INCH
- (AG02) BASE AGGREGATE DENSE 1¼-INCH
- (PV02) SLOPE PAVING CONCRETE
- (PV05) ASPHALTIC FLUME
- (CG18) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- (DR03) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- (BG04) STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
- (BG12) STEEL THRIE BEAM
- (BG14) GUARD RAIL MOW STRIP ASPHALT
- (BG15) MGS GUARDRAIL 3
- (BG17) MGS GUARDRAIL EAT
- (BG25) MGS GUARDRAIL LONG SPAN
- (SW01) SAWING ASPHALT
- (TR01) RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- (PU01) PIPE UNDERDRAIN 6-INCH
- (PU02) PIPE UNDERDRAIN UNPERFORATED 6-INCH

NOTE: ALL REFERENCE LINE GRADES ARE AT EVEN 50' INCREMENT UNLESS OTHERWISE NOTED
ALL PARALLEL CURB AND GUTTER GRADES ARE AT EVEN 25' INCREMENTS UNLESS OTHERWISE NOTED
MID= MIDDLE RADIUS GRADE

RADIUS TABLE					
POINT	STATION	OFFSET	STATION	OFFSET	RADIUS
1	4786+87.62	68.00' LT	49+19.90	55.00' RT	40'
2	4788+24.39	98.00' LT	49+17.74	87.00' LT	70'

BEGIN CONSTRUCTION
STA 47+00

R/L 56TH ROAD

56TH ROAD

R/L WEST FRONTAGE ROAD

WEST FRONTAGE ROAD

BEGIN PROJECT
I.D. 1033-02-78
STA. 4785+00
= MATCH PROJECT
I.D. 1030-24-74

STA 4787+56.09
TYPE B1 INTERSECTION REQ'D

STA 4787+56 WEST FRONTAGE ROAD=
STA 50+00 56TH ROAD

MATCHLINE 4789+00

CURB TERMINI (TYP)

STEEL THRIE BEAM

PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL: WEST FRONTAGE ROAD	SHEET 31	E

FILE NAME : Z:\Racine\CADDS\14\14W\CDS\021201_PD.dgn | PLOT DATE : 9/14/2017 | PLOT BY : plr | PLOT NAME : | PLOT SCALE : 1:40

PAVEMENT DETAIL LEGEND

- (AP03) HMA PAVEMENT 4 LT 58-28 S, 2¼-INCH (UPPER LAYER)
  HMA PAVEMENT 3 LT 58-28 S, 3¼-INCH (LOWER LAYER)
- (AG01) BASE AGGREGATE DENSE ¾-INCH
- (AG02) BASE AGGREGATE DENSE 1¼-INCH
- (PV02) SLOPE PAVING CONCRETE
- (PV05) ASPHALTIC FLUME
- (CG18) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- (DR03) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- (BG04) STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
- (BG12) STEEL THRIE BEAM
- (BG14) GUARD RAIL MOW STRIP ASPHALT
- (BG15) MGS GUARDRAIL 3
- (BG17) MGS GUARDRAIL EAT
- (BG25) MGS GUARDRAIL LONG SPAN
- (SW01) SAWING ASPHALT
- (TR01) RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- (PU01) PIPE UNDERDRAIN 6-INCH
- (PU02) PIPE UNDERDRAIN UNPERFORATED 6-INCH

N

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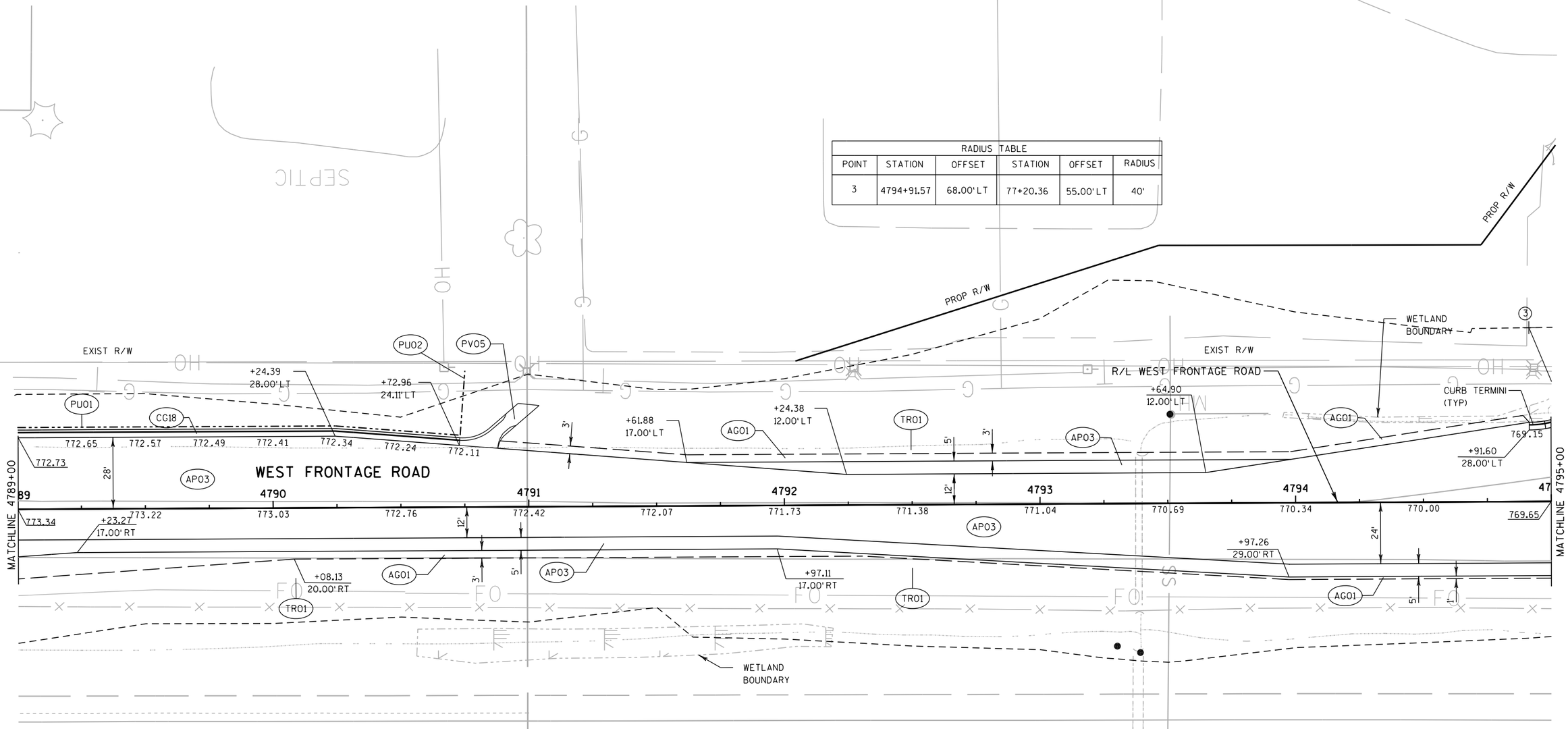
ALL PARALLEL CURB AND GUTTER GRADES ARE AT EVEN 25' INCREMENTS UNLESS OTHERWISE NOTED
MID= MIDDLE RADIUS GRADE

RADIUS TABLE					
POINT	STATION	OFFSET	STATION	OFFSET	RADIUS
3	4794+91.57	68.00' LT	77+20.36	55.00' LT	40'



PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL: WEST FRONTAGE ROAD	SHEET 32	E

2

PAVEMENT DETAIL LEGEND

- (AP03) HMA PAVEMENT 4 LT 58-28 S, 2¼-INCH (UPPER LAYER) HMA PAVEMENT 3 LT 58-28 S, 3¼-INCH (LOWER LAYER)
- (AG01) BASE AGGREGATE DENSE ¾-INCH
- (AG02) BASE AGGREGATE DENSE 1¼-INCH
- (PV02) SLOPE PAVING CONCRETE
- (PV05) ASPHALTIC FLUME
- (CG18) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- (DR03) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- (BG04) STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
- (BG12) STEEL THRIE BEAM
- (BG14) GUARD RAIL MOW STRIP ASPHALT
- (BG15) MGS GUARDRAIL 3
- (BG17) MGS GUARDRAIL EAT
- (BG25) MGS GUARDRAIL LONG SPAN
- (SW01) SAWING ASPHALT
- (TR01) RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- (PU01) PIPE UNDERDRAIN 6-INCH
- (PU02) PIPE UNDERDRAIN UNPERFORATED 6-INCH

N

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ALL PARALLEL CURB AND GUTTER GRADES ARE AT EVEN 25' INCREMENTS UNLESS OTHERWISE NOTED
MID= MIDDLE RADIUS GRADE

RADIUS TABLE					
POINT	STATION	OFFSET	STATION	OFFSET	RADIUS
4	4796+20.61	88.00'LT	77+02.03	75.00'LT	60'

BEGIN CONSTRUCTION
STA 76+27.18

LEETSBIR ROAD

EXIST R/W

+27.18
11.29'LT

MATCH EXISTING

PROP R/W

SW01

PV05

+50.00
15.00'LT

TR01

PU02

AP03

AG01

PU01

R/L LEETSBIR ROAD

TLE

766.50

77+20.35
15.00'RT

77+02.00
15.00'LT

STA 4795+47.19
TYPE B1 MODIFIED INTERSECTION REQ'D

CURB TERMINI (TYP)

+20.60
28.00'LT

768.26

10' TYP.

768.17 (MID)

768.38

766.97

CG18

89°

+20.00
28.00'LT

+56.79
17.00'LT

+20.00
12.00'LT

+47.66
24.00'RT

+47.64
29.00'RT

+06.39
20.00'RT

+47.93
12.00'RT

+48.17
17.00'RT

769.65

769.30

768.96

768.61

768.26

767.92

767.57

767.22

766.88

766.53

766.19

765.88

765.64

WEST FRONTAGE ROAD

R/L WEST FRONTAGE ROAD

MATCHLINE 4795+00

MATCHLINE 4801+00

STA 4795+47 WEST FRONTAGE ROAD=
STA 77+89 LEETSBIR ROAD

WETLAND BOUNDARY

EXIST R/W

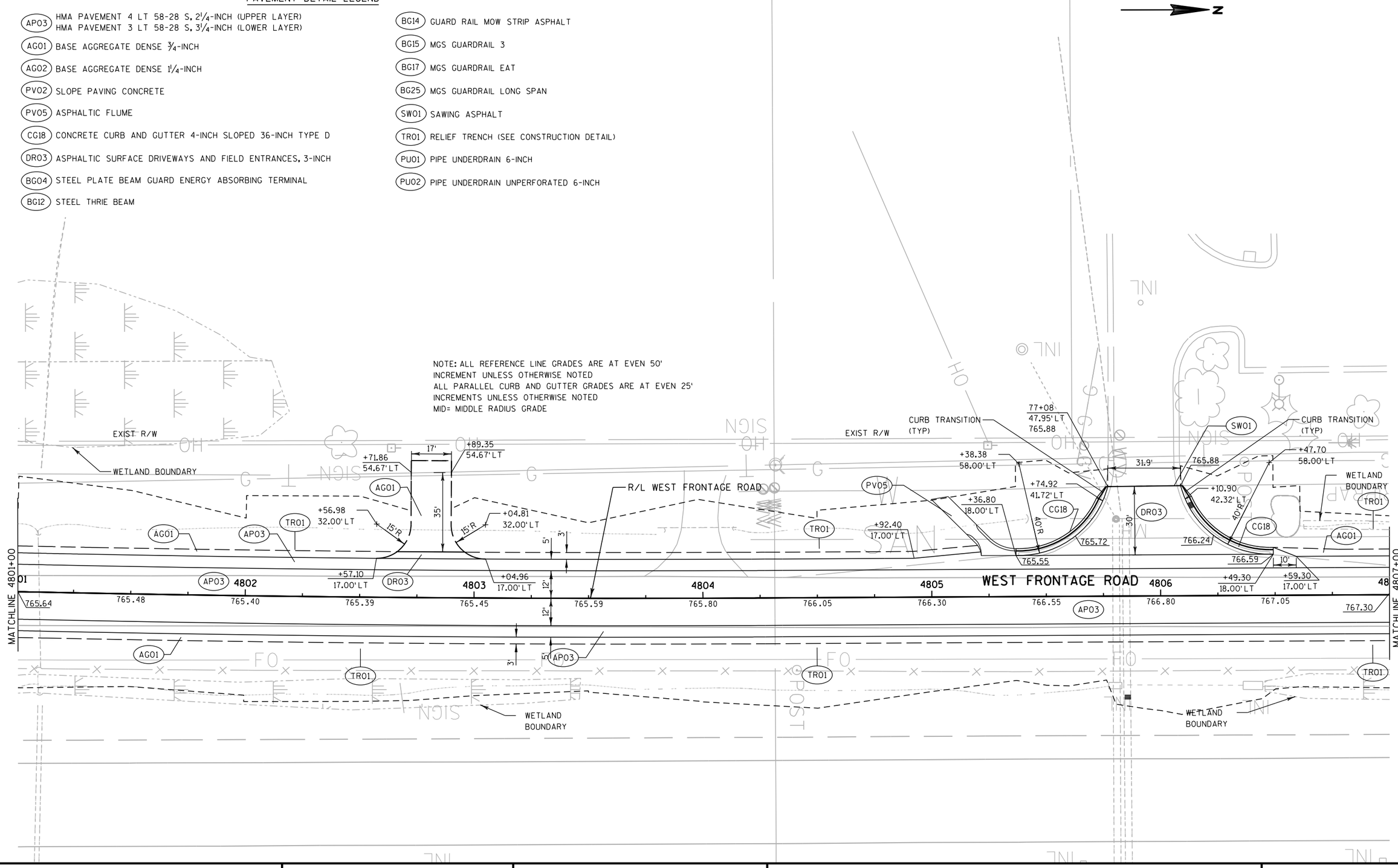
WETLAND BOUNDARY

PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL: WEST FRONTAGE ROAD	SHEET 33	E

PAVEMENT DETAIL LEGEND

- (APO3) HMA PAVEMENT 4 LT 58-28 S, 2¼-INCH (UPPER LAYER)
  HMA PAVEMENT 3 LT 58-28 S, 3¼-INCH (LOWER LAYER)
- (AG01) BASE AGGREGATE DENSE ¾-INCH
- (AG02) BASE AGGREGATE DENSE 1¼-INCH
- (PV02) SLOPE PAVING CONCRETE
- (PV05) ASPHALTIC FLUME
- (CG18) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- (DR03) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- (BG04) STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
- (BG12) STEEL THRIE BEAM
- (BG14) GUARD RAIL MOW STRIP ASPHALT
- (BG15) MGS GUARDRAIL 3
- (BG17) MGS GUARDRAIL EAT
- (BG25) MGS GUARDRAIL LONG SPAN
- (SW01) SAWING ASPHALT
- (TR01) RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- (PU01) PIPE UNDERDRAIN 6-INCH
- (PU02) PIPE UNDERDRAIN UNPERFORATED 6-INCH

NOTE: ALL REFERENCE LINE GRADES ARE AT EVEN 50'
INCREMENT UNLESS OTHERWISE NOTED
ALL PARALLEL CURB AND GUTTER GRADES ARE AT EVEN 25'
INCREMENTS UNLESS OTHERWISE NOTED
MID= MIDDLE RADIUS GRADE



PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL: WEST FRONTAGE ROAD	SHEET 34	E

2

PAVEMENT DETAIL LEGEND

- (AP03) HMA PAVEMENT 4 LT 58-28 S, 2¼-INCH (UPPER LAYER)
  HMA PAVEMENT 3 LT 58-28 S, 3¼-INCH (LOWER LAYER)
- (AG01) BASE AGGREGATE DENSE ¾-INCH
- (AG02) BASE AGGREGATE DENSE 1¼-INCH
- (PV02) SLOPE PAVING CONCRETE
- (PV05) ASPHALTIC FLUME
- (CG18) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- (DR03) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- (BG04) STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
- (BG12) STEEL THRIE BEAM
- (BG14) GUARD RAIL MOW STRIP ASPHALT
- (BG15) MGS GUARDRAIL 3
- (BG17) MGS GUARDRAIL EAT
- (BG25) MGS GUARDRAIL LONG SPAN
- (SW01) SAWING ASPHALT
- (TR01) RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- (PU01) PIPE UNDERDRAIN 6-INCH
- (PU02) PIPE UNDERDRAIN UNPERFORATED 6-INCH

N

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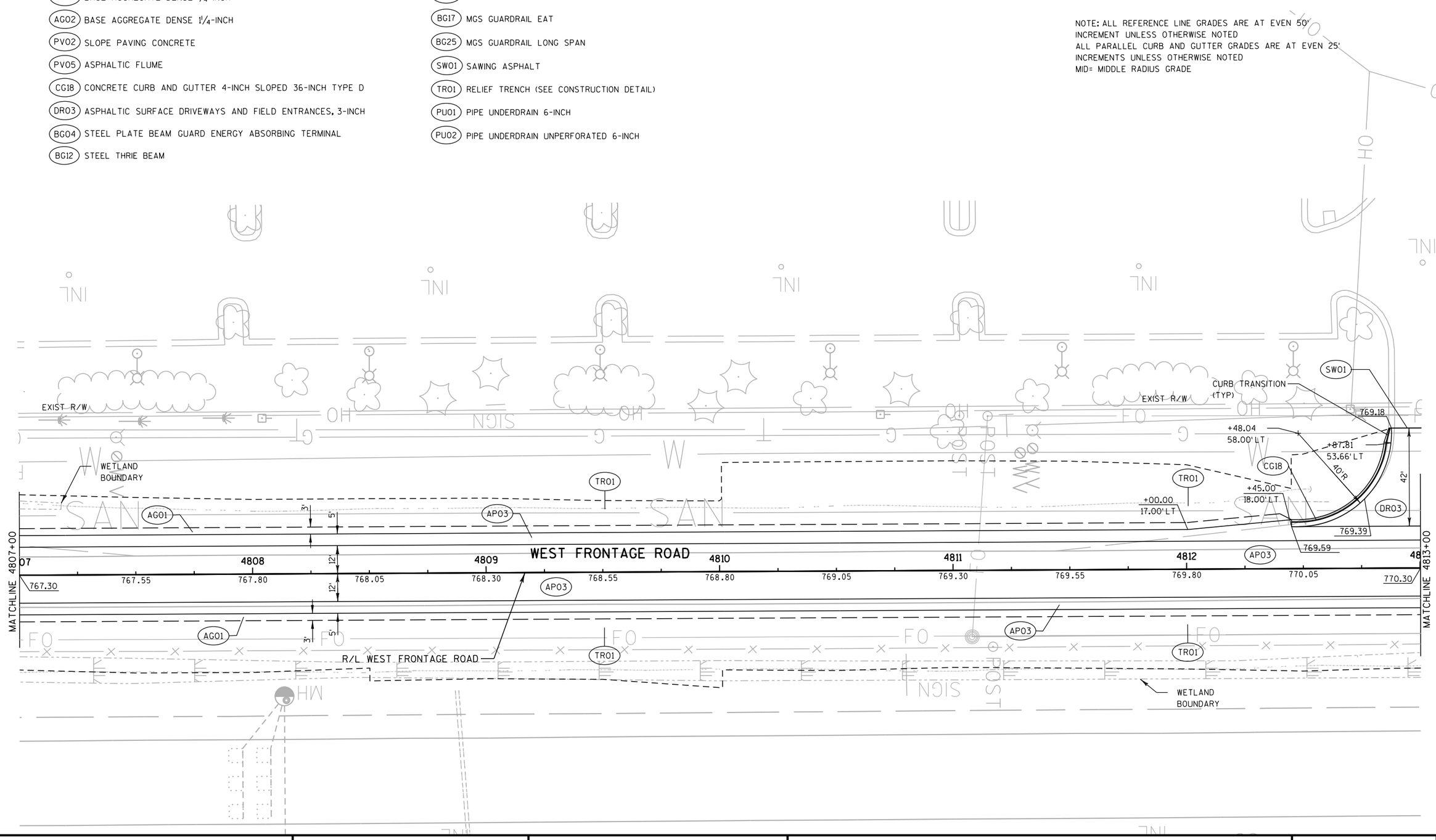

PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL: WEST FRONTAGE ROAD	SHEET 35	E

FILE NAME : Z:\Racine\CADDS\14\14W\CDS\021205_PD.dgn | PLOT DATE : 9/14/2017 | PLOT BY : plr | PLOT NAME : | PLOT SCALE : 1:40

PAVEMENT DETAIL LEGEND

- APO3 — HMA PAVEMENT 4 LT 58-28 S, 2¼-INCH (UPPER LAYER)
  HMA PAVEMENT 3 LT 58-28 S, 3¼-INCH (LOWER LAYER)
- AG01 — BASE AGGREGATE DENSE ¾-INCH
- AG02 — BASE AGGREGATE DENSE 1¼-INCH
- PV02 — SLOPE PAVING CONCRETE
- PV05 — ASPHALTIC FLUME
- CG18 — CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- DR03 — ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- BG04 — STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
- BG12 — STEEL THRIE BEAM
- BG14 — GUARD RAIL MOW STRIP ASPHALT
- BG15 — MGS GUARDRAIL 3
- BG17 — MGS GUARDRAIL EAT
- BG25 — MGS GUARDRAIL LONG SPAN
- SW01 — SAWING ASPHALT
- TR01 — RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- PU01 — PIPE UNDERDRAIN 6-INCH
- PU02 — PIPE UNDERDRAIN UNPERFORATED 6-INCH

N

NOTE: ALL REFERENCE LINE GRADES ARE AT EVEN 50'
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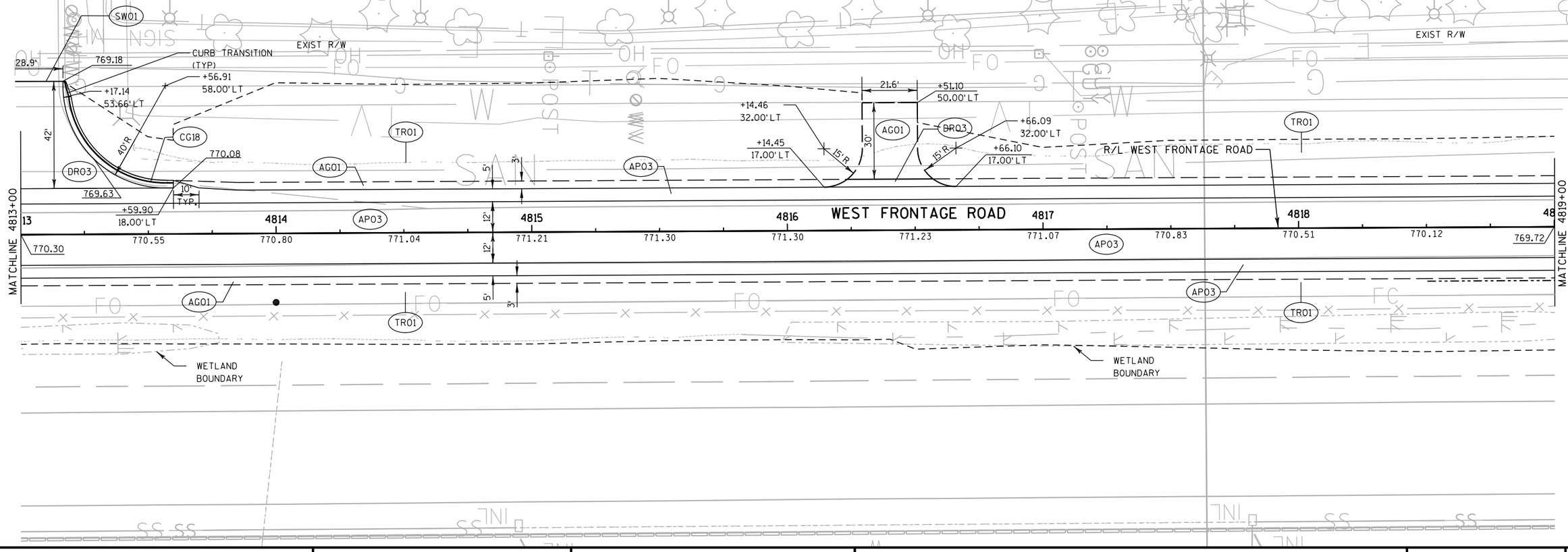

PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL: WEST FRONTAGE ROAD	SHEET 36	E

PAVEMENT DETAIL LEGEND

- (APO3) HMA PAVEMENT 4 LT 58-28 S, 2¼-INCH (UPPER LAYER)
  HMA PAVEMENT 3 LT 58-28 S, 3¼-INCH (LOWER LAYER)
- (AGO1) BASE AGGREGATE DENSE ¾-INCH
- (AGO2) BASE AGGREGATE DENSE 1¼-INCH
- (PVO2) SLOPE PAVING CONCRETE
- (PVO5) ASPHALTIC FLUME
- (CG18) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- (DRO3) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- (BGO4) STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
- (BG12) STEEL THRIE BEAM
- (BG14) GUARD RAIL MOW STRIP ASPHALT
- (BG15) MGS GUARDRAIL 3
- (BG17) MGS GUARDRAIL EAT
- (BG25) MGS GUARDRAIL LONG SPAN
- (SW01) SAWING ASPHALT
- (TRO1) RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- (PU01) PIPE UNDERDRAIN 6-INCH
- (PU02) PIPE UNDERDRAIN UNPERFORATED 6-INCH

N

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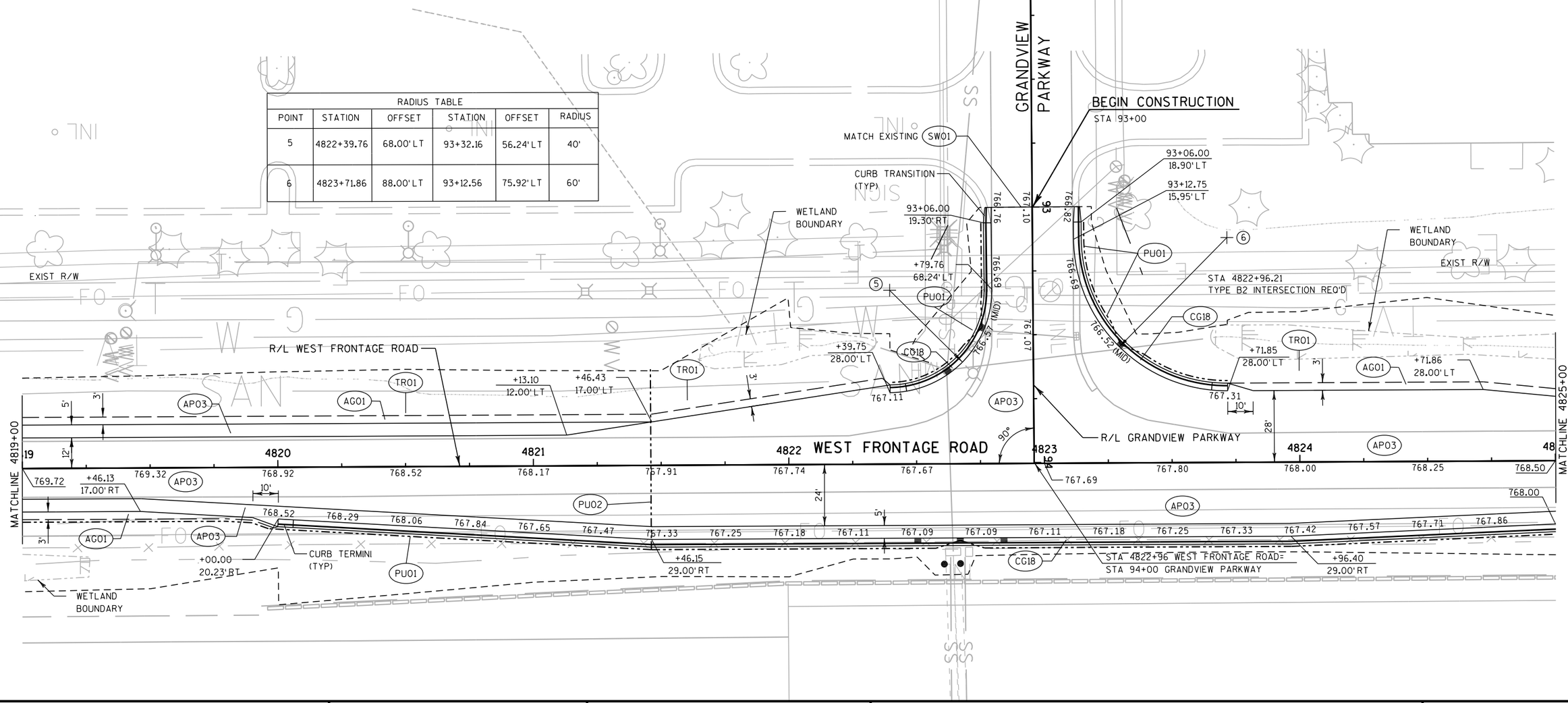
ALL PARALLEL CURB AND GUTTER GRADES ARE AT EVEN 25' INCREMENTS UNLESS OTHERWISE NOTED
MID= MIDDLE RADIUS GRADE

RADIUS TABLE					
POINT	STATION	OFFSET	STATION	OFFSET	RADIUS
5	4822+39.76	68.00' LT	93+32.16	56.24' LT	40'
6	4823+71.86	88.00' LT	93+12.56	75.92' LT	60'



PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL: WEST FRONTAGE ROAD	SHEET 37	E

PAVEMENT DETAIL LEGEND

- (APO3) HMA PAVEMENT 4 LT 58-28 S, 2¼-INCH (UPPER LAYER)
  HMA PAVEMENT 3 LT 58-28 S, 3¼-INCH (LOWER LAYER)
- (AGO1) BASE AGGREGATE DENSE ¾-INCH
- (AGO2) BASE AGGREGATE DENSE 1¼-INCH
- (PVO2) SLOPE PAVING CONCRETE
- (PVO5) ASPHALTIC FLUME
- (CG18) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- (DRO3) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- (BG04) STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
- (BG12) STEEL THRIE BEAM
- (BG14) GUARD RAIL MOW STRIP ASPHALT
- (BG15) MGS GUARDRAIL 3
- (BG17) MGS GUARDRAIL EAT
- (BG25) MGS GUARDRAIL LONG SPAN
- (SW01) SAWING ASPHALT
- (TR01) RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- (PU01) PIPE UNDERDRAIN 6-INCH
- (PU02) PIPE UNDERDRAIN UNPERFORATED 6-INCH

NOTE: ALL REFERENCE LINE GRADES ARE AT EVEN 50'
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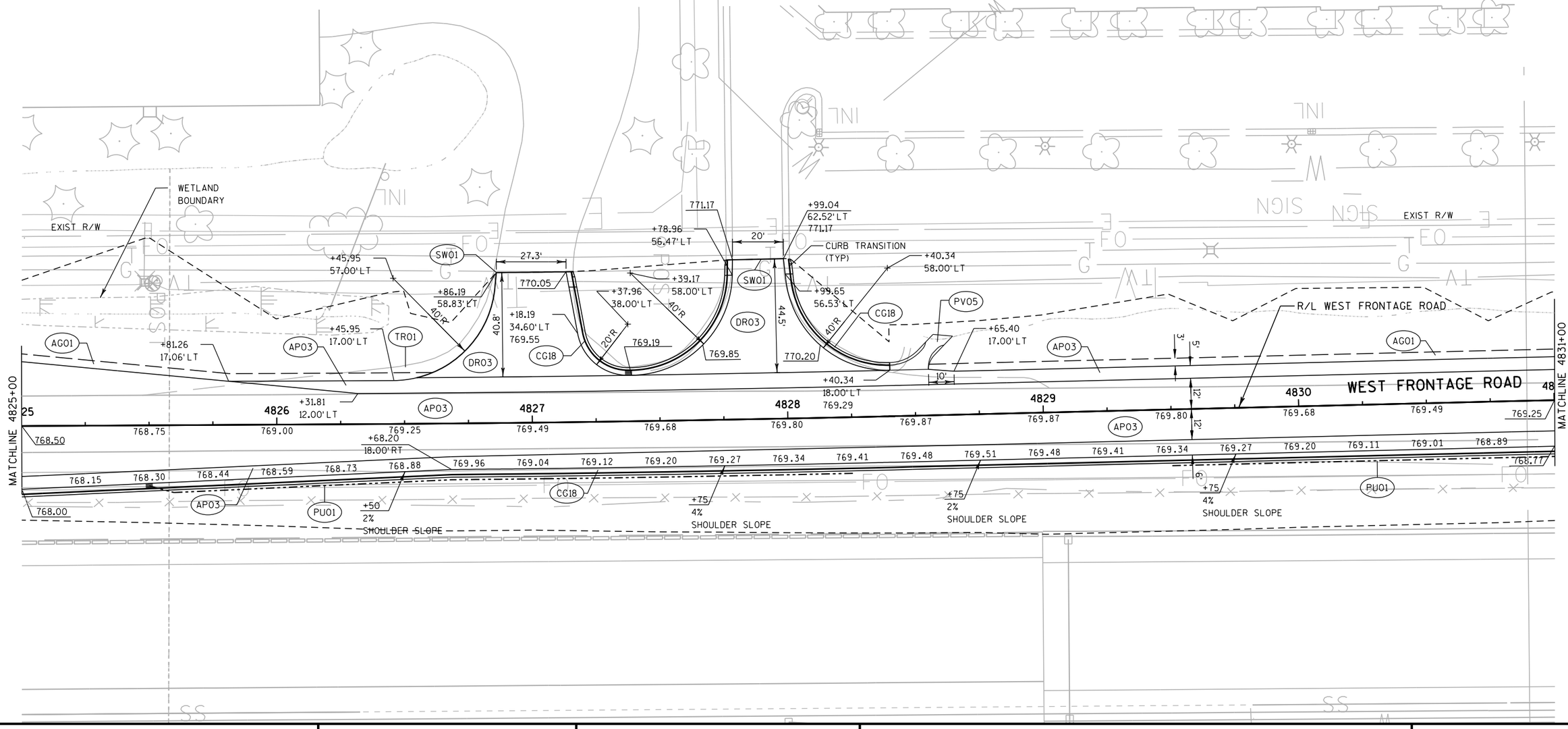

PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL: WEST FRONTAGE ROAD	SHEET 38	E

FILE NAME : Z:\Racine\CADDS\14\14W\CDS\021208_PD.dgn PLOT DATE : 9/18/2017 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:40

PAVEMENT DETAIL LEGEND

- (APO3) HMA PAVEMENT 4 LT 58-28 S, 2¼-INCH (UPPER LAYER)
  HMA PAVEMENT 3 LT 58-28 S, 3¼-INCH (LOWER LAYER)
- (AGO1) BASE AGGREGATE DENSE ¾-INCH
- (AGO2) BASE AGGREGATE DENSE 1¼-INCH
- (PVO2) SLOPE PAVING CONCRETE
- (PVO5) ASPHALTIC FLUME
- (CG18) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- (DRO3) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- (BGO4) STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
- (BG12) STEEL THRIE BEAM
- (BG14) GUARD RAIL MOW STRIP ASPHALT
- (BG15) MGS GUARDRAIL 3
- (BG17) MGS GUARDRAIL EAT
- (BG25) MGS GUARDRAIL LONG SPAN
- (SW01) SAWING ASPHALT
- (TR01) RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- (PU01) PIPE UNDERDRAIN 6-INCH
- (PU02) PIPE UNDERDRAIN UNPERFORATED 6-INCH

N

NOTE: ALL REFERENCE LINE GRADES ARE AT EVEN 50'
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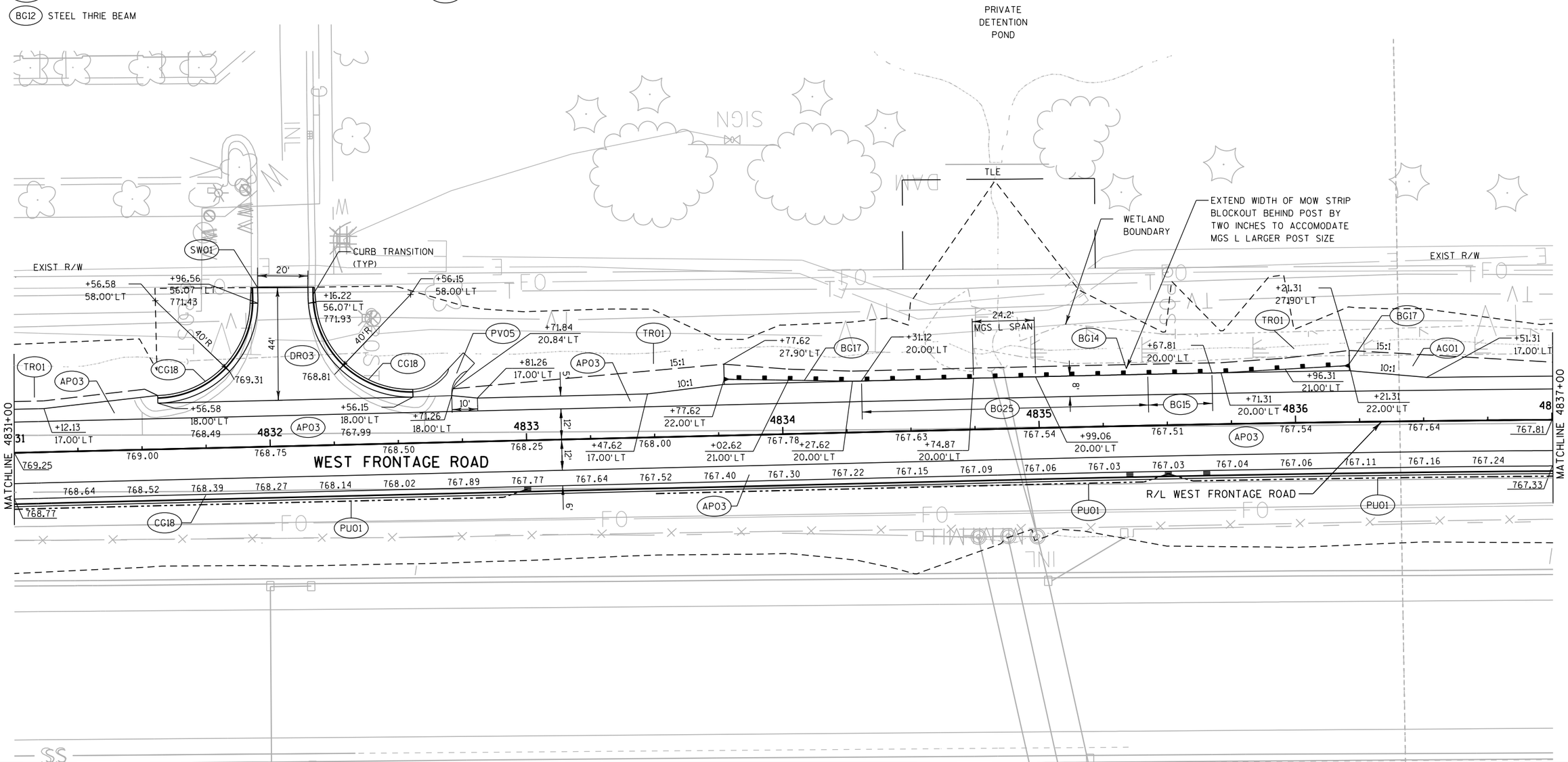

PAVEMENT DETAIL LEGEND

- (APO3) HMA PAVEMENT 4 LT 58-28 S, 2¼-INCH (UPPER LAYER)
  HMA PAVEMENT 3 LT 58-28 S, 3¼-INCH (LOWER LAYER)
- (AGO1) BASE AGGREGATE DENSE ¾-INCH
- (AGO2) BASE AGGREGATE DENSE 1¼-INCH
- (PVO2) SLOPE PAVING CONCRETE
- (PVO5) ASPHALTIC FLUME
- (CG18) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- (DRO3) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- (BG04) STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
- (BG12) STEEL THRIE BEAM
- (BG14) GUARD RAIL MOW STRIP ASPHALT
- (BG15) MGS GUARDRAIL 3
- (BG17) MGS GUARDRAIL EAT
- (BG25) MGS GUARDRAIL LONG SPAN
- (SWO1) SAWING ASPHALT
- (TRO1) RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- (PUO1) PIPE UNDERDRAIN 6-INCH
- (PUO2) PIPE UNDERDRAIN UNPERFORATED 6-INCH

N

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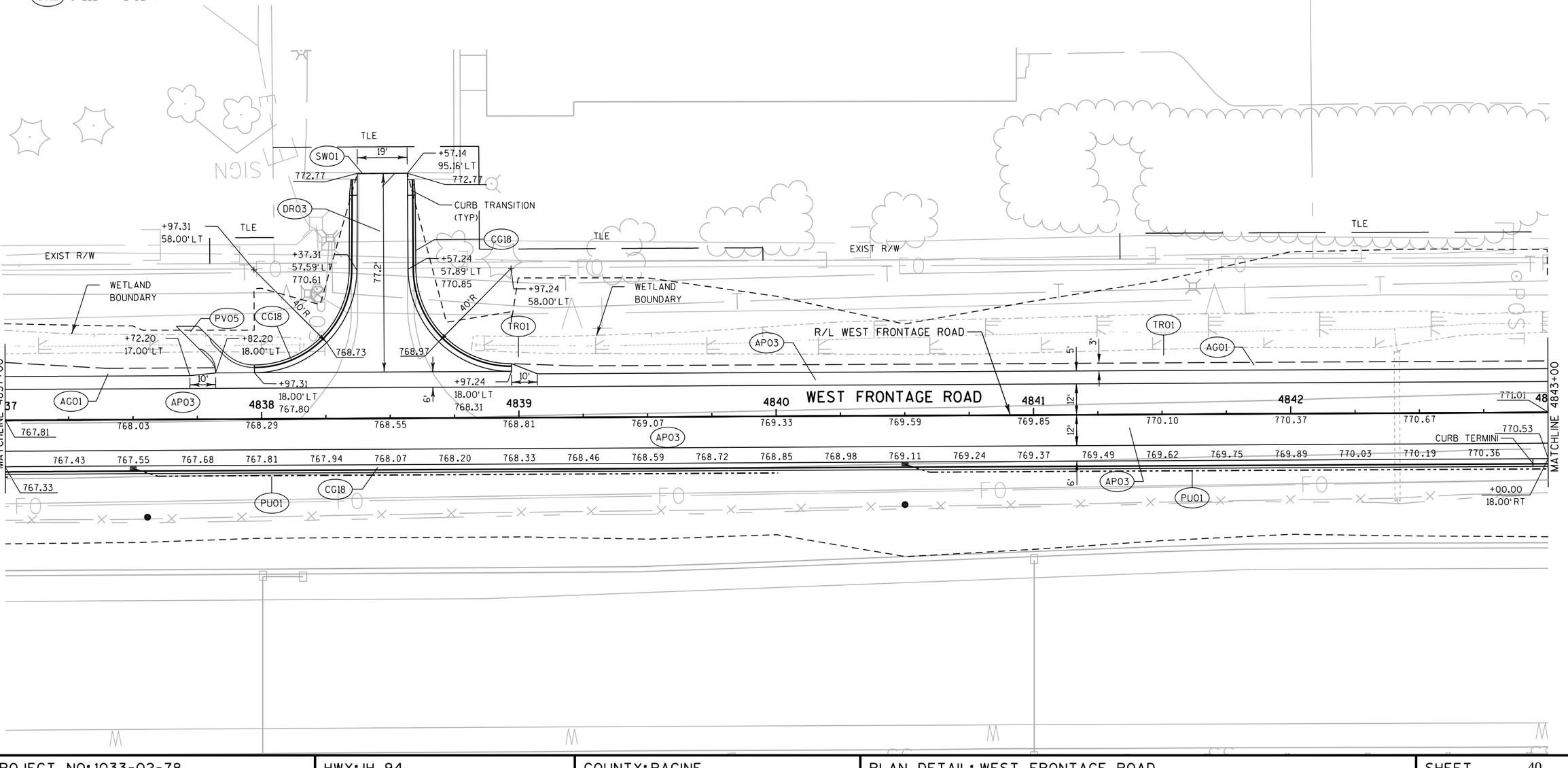
INCREMENTS UNLESS OTHERWISE NOTED
MID= MIDDLE RADIUS GRADE

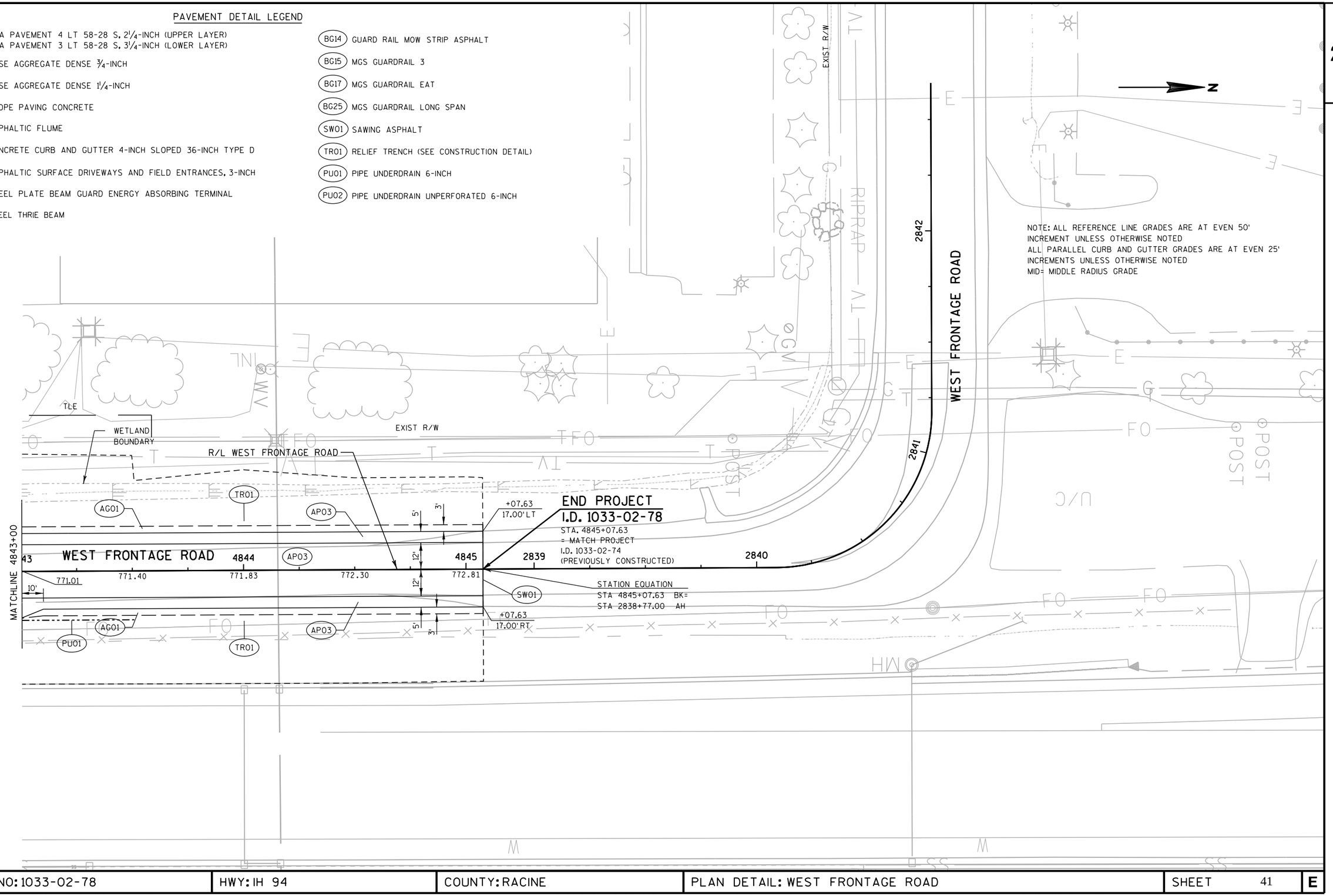


PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL: WEST FRONTAGE ROAD	SHEET 40	E

FILE NAME : Z:\Racine\CADDS\14\14W\CDS\021210_PD.dgn PLOT DATE : 9/14/2017 PLOT BY : plr PLOT NAME : PLOT SCALE : 1:40

PAVEMENT DETAIL LEGEND

- APO3 — HMA PAVEMENT 4 LT 58-28 S, 2¼-INCH (UPPER LAYER) / HMA PAVEMENT 3 LT 58-28 S, 3¼-INCH (LOWER LAYER)
- AGO1 — BASE AGGREGATE DENSE ¾-INCH
- AGO2 — BASE AGGREGATE DENSE 1¼-INCH
- PVO2 — SLOPE PAVING CONCRETE
- PVO5 — ASPHALTIC FLUME
- CGI8 — CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- DRO3 — ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- BGO4 — STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
- BG12 — STEEL THRIE BEAM
- BG14 — GUARD RAIL MOW STRIP ASPHALT
- BG15 — MGS GUARDRAIL 3
- BG17 — MGS GUARDRAIL EAT
- BG25 — MGS GUARDRAIL LONG SPAN
- SW01 — SAWING ASPHALT
- TRO1 — RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- PU01 — PIPE UNDERDRAIN 6-INCH
- PU02 — PIPE UNDERDRAIN UNPERFORATED 6-INCH



PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL: WEST FRONTAGE ROAD	SHEET 41	E

LEGEND

- EROSION MAT CLASS I, TYPE B
- EROSION MAT URBAN CLASS I, TYPE B
- SILT FENCE
- HEAVY DUTY SILT FENCE
- (R) ROCK BAGS
- RIP RAP (LIGHT UNLESS NOTED)
- SLOPE INTERCEPT
- (A) INLET PROTECTION TYPE A
- (C) INLET PROTECTION TYPE C*
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- ASPH ASPHALTIC FLUME

N

SEEDING MIXTURE NO. 40
APPROX. STA. 4785+00 TO 4798+00

46 56TH ROAD

R/L 56TH ROAD

EXIST R/W

PROP R/W

TLE

RIPRAP
L= 6 FT
W= 6 FT

+98.66
52.80' RT

+38.94
42.27' RT

R/L WEST FRONTAGE ROAD

WEST FRONTAGE ROAD

WETLAND BOUNDARY

+84.00
52.44' RT

+51.00
42.13' RT

+25.03
54.37' RT

+50.06
45.11' RT

+99.88
46.74' RT

BEGIN PROJECT
I.D. 1033-02-78
STA. 4785+00
= MATCH PROJECT
I.D. 1030-24-174

IH 94 SB

IH 94 NB

R/L IH 94

MATCHLINE 4794+50

EAST FRONTAGE ROAD

R/W

WETLAND BOUNDARY

PROP R/W

PLE

EXIST R/W

LOUIS SORENSON ROAD

R/L EAST FRONTAGE ROAD

NOTE:
* PLACE INLET PROTECTION TYPE A UNTIL CURB IS IN PLACE, THEN PLACE TYPE B, C OR D AS INDICATED.

PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	EROSION CONTROL: WEST FRONTAGE ROAD	SHEET 42	E

FILE NAME : Z:\Racine\CADDS\14\14W\CDS\022001_EC.dgn | PLOT DATE : 7/31/2017 | PLOT BY : bjw | PLOT NAME : | PLOT SCALE : 1:100.001

2

N

LEGEND

#######	EROSION MAT CLASS I, TYPE B	(A)	INLET PROTECTION TYPE A
#######	EROSION MAT URBAN CLASS I, TYPE B	(C)	INLET PROTECTION TYPE C*
———	SILT FENCE	ΔΔΔ	TEMPORARY DITCH CHECK
xxxxxxx	HEAVY DUTY SILT FENCE	OOO	CULVERT PIPE CHECK
[R]	ROCK BAGS	~→	SURFACE WATER FLOW
###	RIP RAP (LIGHT UNLESS NOTED)	[ASPH]	ASPHALTIC FLUME
_ _ _	SLOPE INTERCEPT		

EXIST R/W

EXIST R/W

SEEDING MIXTURE NO. 40
APPROX. STA. 4785+00 TO 4798+00

LEETSBIR ROAD

R/L LEETSBIR ROAD

RIPRAP
L= 12 FT
W= 3 FT

PROP R/W

TLE

MATCHLINE 4794+50

4796 4798 4800 4802 4804 4806 4808

+20.56 51.14' LT
+97.32 52.36' LT
+04.55 53.80' LT
+15.06 53.63' LT
+51.30 44.83' LT

WETLAND BOUNDARY

EXIST R/W

WETLAND BOUNDARY

WEST FRONTAGE ROAD

MATCHLINE 4809+00

R/L WEST FRONTAGE ROAD

SEEDING MIXTURE NO. 40
APPROX. STA. 4785+00 TO 4798+00

+75.33 45.74' RT
+55.83 40.65' RT
+74.75 39.72' RT
+00.06 42.26' RT
+48.62 40.69' RT
+99.57 43.71' RT
+99.79 46.42' RT
+72.72 45.60' RT
+00.72 43.01' RT
+49.67 40.83' RT

IH 94 SB

+43.14 45.86' RT
+61.25 40.36' RT
+49.81 42.65' RT
+04.88 42.39' RT

796 798 800 802 804 806 808

R/L IH 94

WETLAND BOUNDARY

IH 94 NB

+50.19 41.27' RT
WETLAND BOUNDARY
+49.20 41.03' RT
+53.59 47.35' RT

5796 5798 5800 5802 5804 5806 EAST FRONTAGE ROAD 5808

EXIST R/W

PROP R/W

R/L EAST FRONTAGE ROAD

PLE

EXIST R/W

TLE

EXIST R/W

PROP R/W

PLE

TLE

NOTE:
* PLACE INLET PROTECTION TYPE A UNTIL CURB IS IN PLACE. THEN PLACE TYPE B, C OR D AS INDICATED.

PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	EROSION CONTROL: WEST FRONTAGE ROAD	SHEET 43	E

2

LEGEND

- EROSION MAT CLASS I, TYPE B
- EROSION MAT URBAN CLASS I, TYPE B
- SILT FENCE
- HEAVY DUTY SILT FENCE
- ROCK BAGS
- RIP RAP (LIGHT UNLESS NOTED)
- SLOPE INTERCEPT
- INLET PROTECTION TYPE A
- INLET PROTECTION TYPE C*
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- ASPHALTIC FLUME

N

R/L GRANDVIEW PARKWAY

GRANDVIEW PARKWAY

R/L WEST FRONTAGE ROAD

R/W

WETLAND BOUNDARY

EXIST R/W

WEST FRONTAGE ROAD

IH 94 SB

IH 94 NB

EAST FRONTAGE ROAD

R/L EAST FRONTAGE ROAD

R/L IH 94

SEEDING MIXTURE NO. 40
APPROX. STA. 4813+00 TO 4815+50

MATCHLINE 4809+00

MATCHLINE 4824+00

+91.70 49.62' RT
+01.84 43.03' RT
+57.39 42.85' RT
+01.58 41.88' RT
+51.18 44.34' RT
+93.08 43.37' RT
+88.47 44.00' RT

EXIST R/W
PROP R/W
TLE

WETLAND BOUNDARY

HOODS CREEK
INTERMITTENT STREAM CROSSING

NOTE:
* PLACE INLET PROTECTION TYPE A UNTIL CURB IS IN PLACE, THEN PLACE TYPE B, C OR D AS INDICATED.

PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	EROSION CONTROL: WEST FRONTAGE ROAD	SHEET 44	E

FILE NAME : Z:\Racine\CADDS\14\14W\CDS\022003_EC.dgn | PLOT DATE : 7/31/2017 | PLOT BY : bjw | PLOT NAME : | PLOT SCALE : 1:100

LEGEND

- EROSION MAT CLASS I, TYPE B
- EROSION MAT URBAN CLASS I, TYPE B
- SILT FENCE
- HEAVY DUTY SILT FENCE
- (R) ROCK BAGS
- RIP RAP (LIGHT UNLESS NOTED)
- SLOPE INTERCEPT
- (A) INLET PROTECTION TYPE A
- (C) INLET PROTECTION TYPE C*
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- ASPH ASPHALTIC FLUME

NOTE:
* PLACE INLET PROTECTION TYPE A UNTIL CURB IS IN PLACE, THEN PLACE TYPE B, C OR D AS INDICATED.

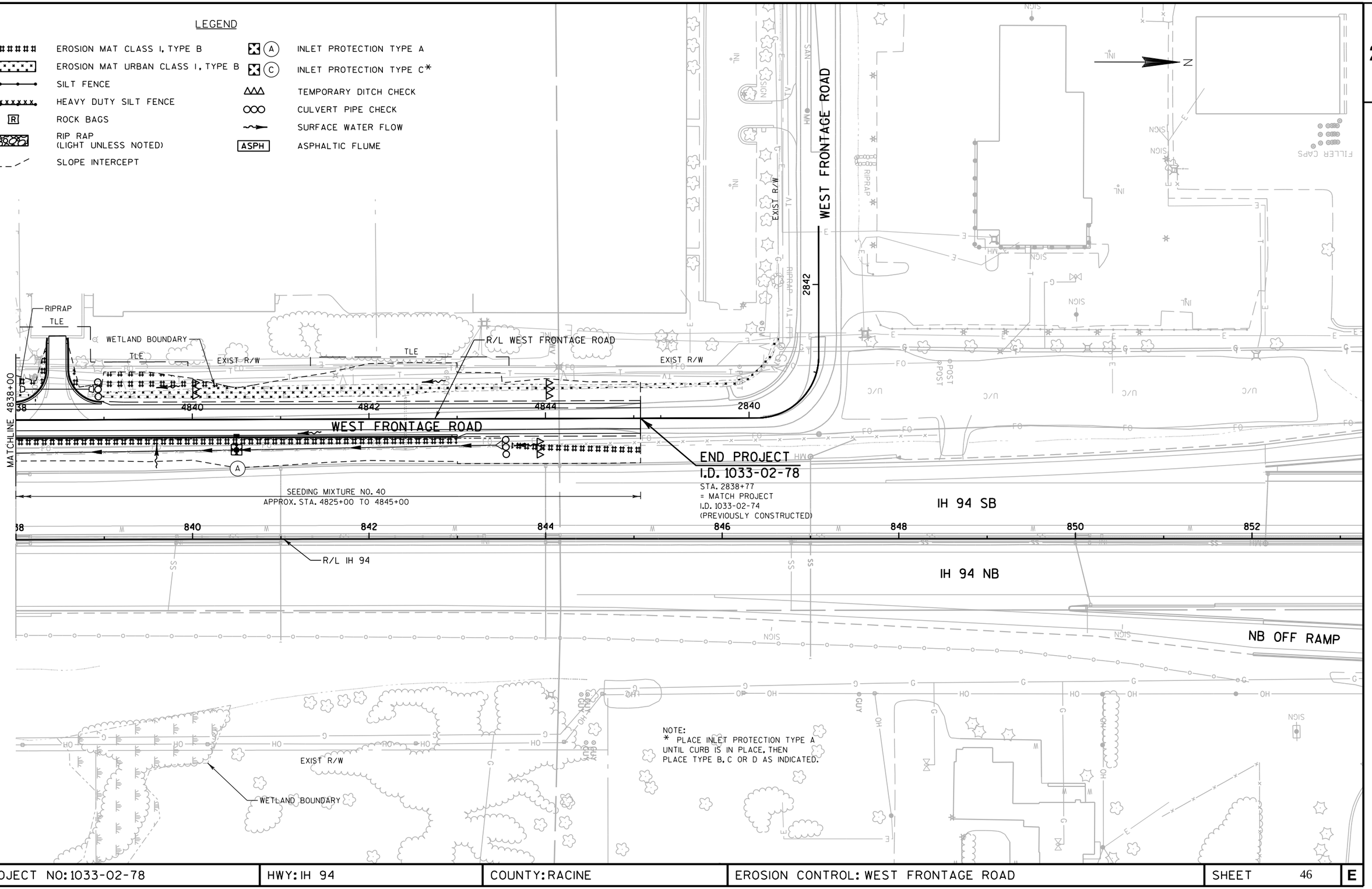
N

+99.85 41.83' LT
+44.26 52.17' LT
+71.38 61.15' LT
WETLAND BOUNDARY
EXIST R/W
PRIVATE DETENTION POND
RIPRAP L= 56 FT W= 12 FT
TLE
WETLAND BOUNDARY
EXIST R/W
RIPRAP L= 29 FT W= 6 FT
MATCHLINE 4824+00
MATCHLINE 4838+00
4824
4826
4828
4830
4832
4834
4836
WEST FRONTAGE ROAD
R/L WEST FRONTAGE ROAD
SEEDING MIXTURE NO. 40
APPROX. STA. 4825+00 TO 4845+00
IH 94 SB
IH 94 NB
826
828
830
832
834
836
R/L IH 94
5826
5828
5830
5832
5834
R/L EAST FRONTAGE ROAD
EAST FRONTAGE ROAD
EXIST R/W
PROP R/W
WETLAND BOUNDARY

2

LEGEND

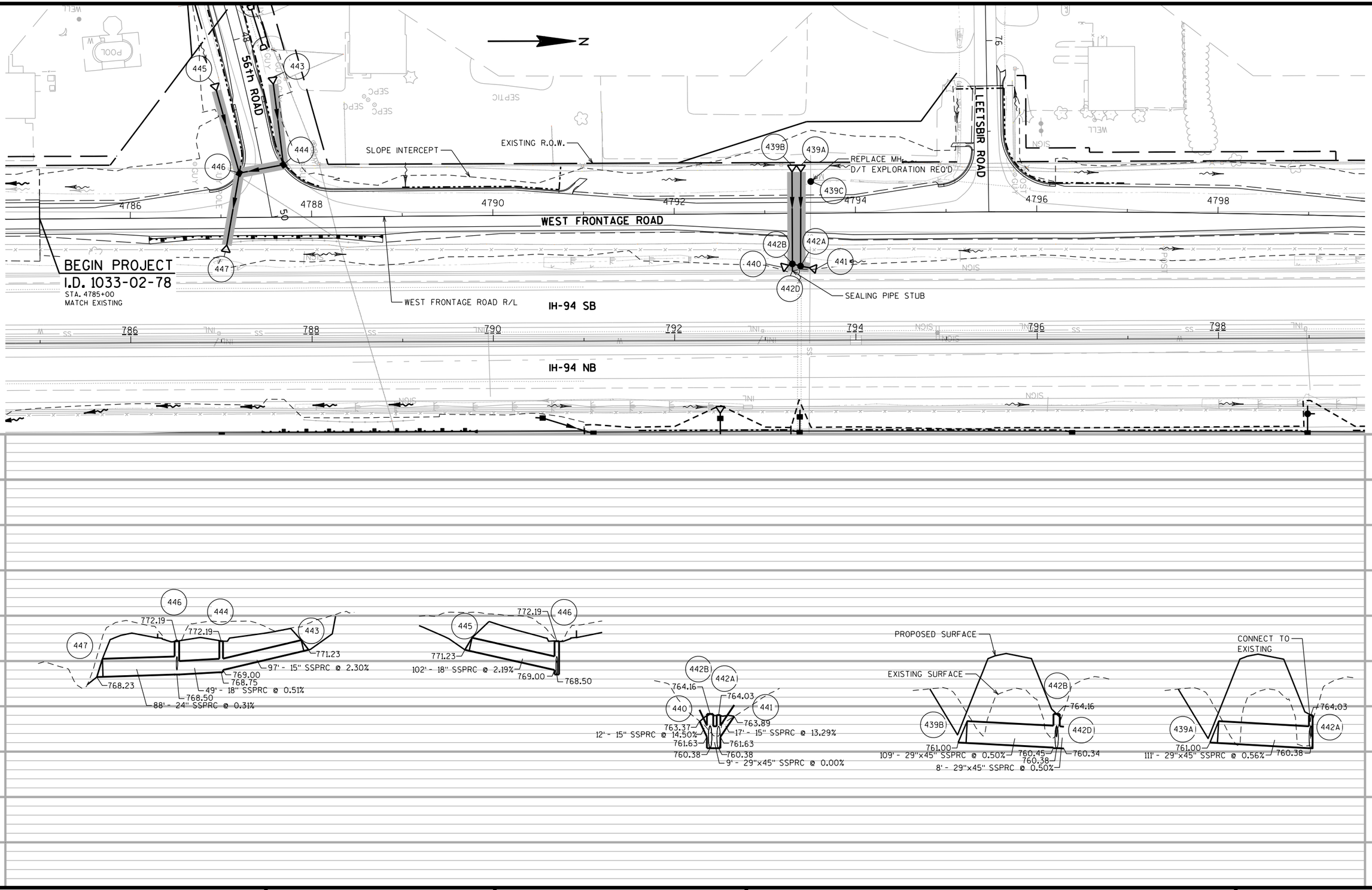
#######	EROSION MAT CLASS I, TYPE B	(A)	INLET PROTECTION TYPE A
	EROSION MAT URBAN CLASS I, TYPE B	(C)	INLET PROTECTION TYPE C*
	SILT FENCE		TEMPORARY DITCH CHECK
	HEAVY DUTY SILT FENCE		CULVERT PIPE CHECK
R	ROCK BAGS		SURFACE WATER FLOW
	RIP RAP (LIGHT UNLESS NOTED)	ASPH	ASPHALTIC FLUME
	SLOPE INTERCEPT		



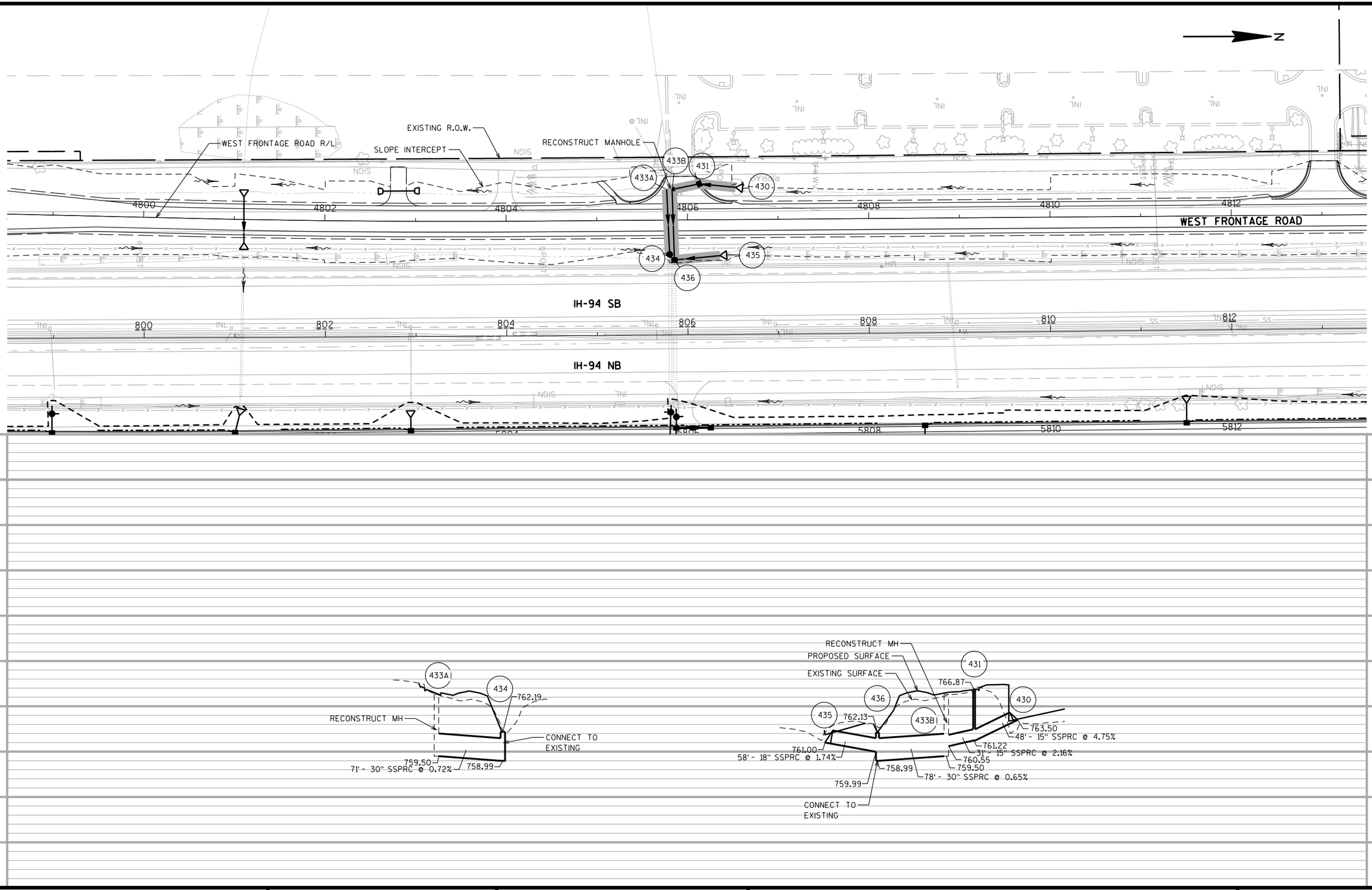
PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	EROSION CONTROL: WEST FRONTAGE ROAD	SHEET 46	E

FILE NAME : Z:\Racine\CADDS\14\14W\CDS\022005_EC.dgn PLOT DATE : 7/31/2017 PLOT BY : bjw PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42



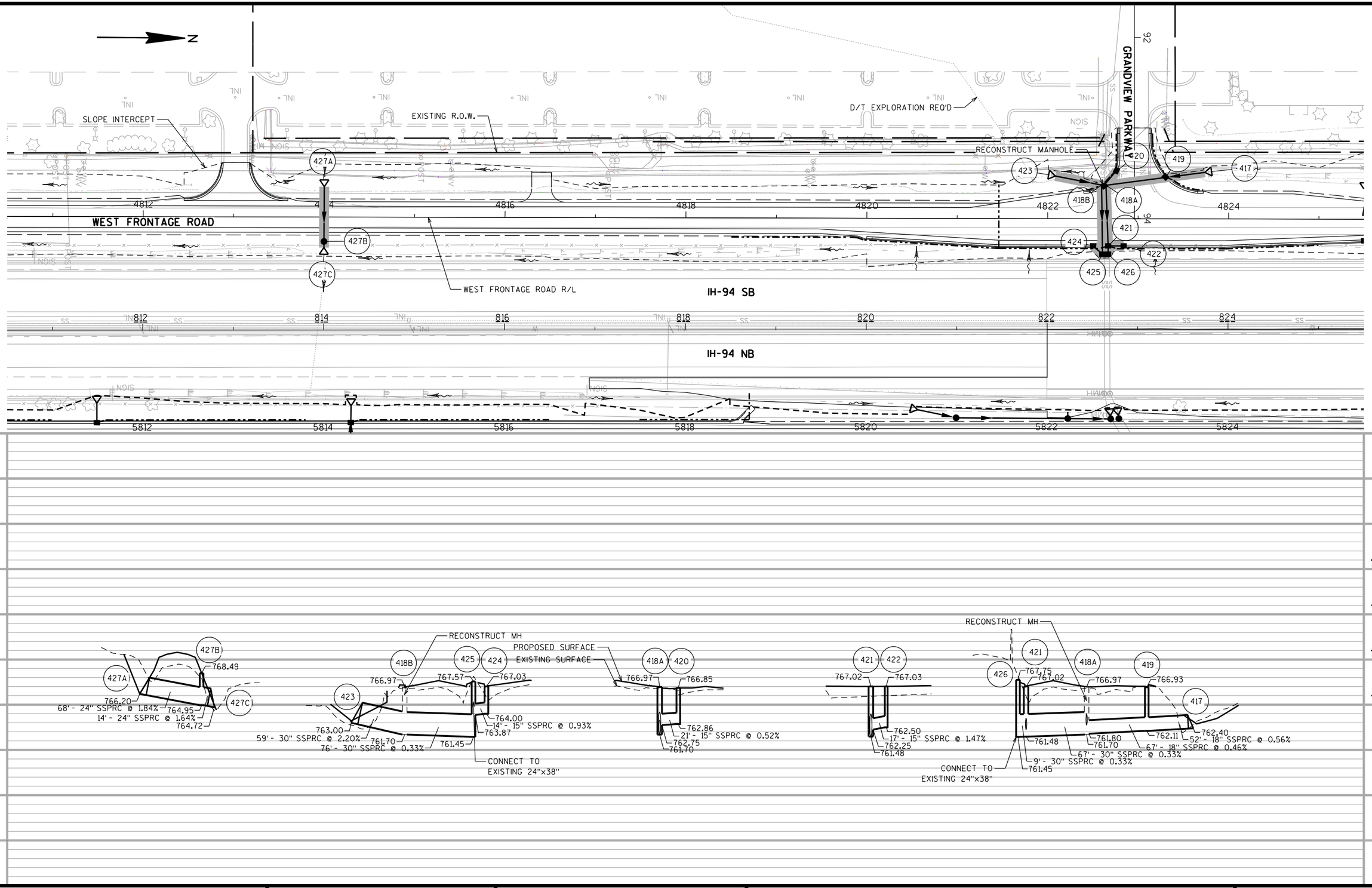
PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	STORM SEWER: SEG. 14 WFR	SHEET 47 E



780 775 770 765 760 755 750 745

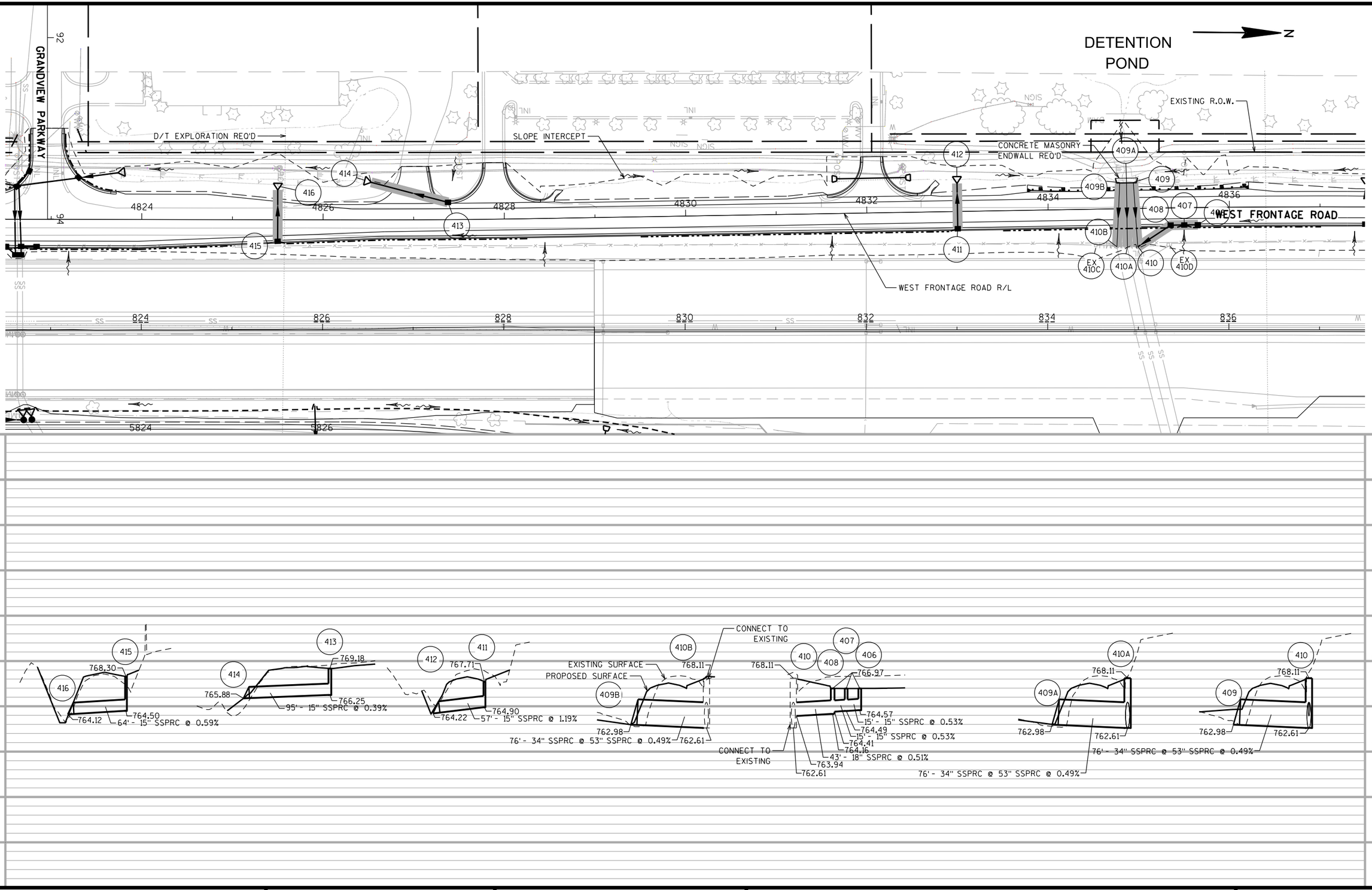
PROJECT NO:1033-02-78	HWY:IH 94	COUNTY:RACINE	STORM SEWER:SEG. 14 WFR	SHEET 48 E

FILE NAME : S:\2015\WisDOT\I-94_N-S\CADD files\CDS\SSE_IH-94_14WFR_SS2.dgn PLOT DATE : 11/28/2016 PLOT BY : Harlan PLOT NAME : _____ PLOT SCALE : 1:100



PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	STORM SEWER: SEG. 14 WFR	SHEET 49 E

FILE NAME : S:\2015\WisDOT\I-94_N-S\CADD files\CDS\SSE_IH-94_14WFR_SS3.dgn PLOT DATE : 11/28/2016 PLOT BY : Harlan PLOT NAME : _____ PLOT SCALE : 1:100



PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	STORM SEWER: SEG. 14 WFR	SHEET 50 E

DETENTION POND

N

SLOPE INTERCEPT

EXISTING R.O.W.

WEST FRONTAGE ROAD R/L

WEST FRONTAGE ROAD

405 404 403 401 402 400

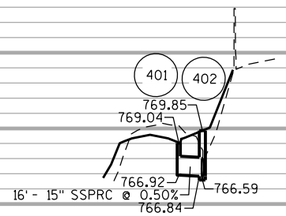
4836 4838 4840 4842 4844 2840

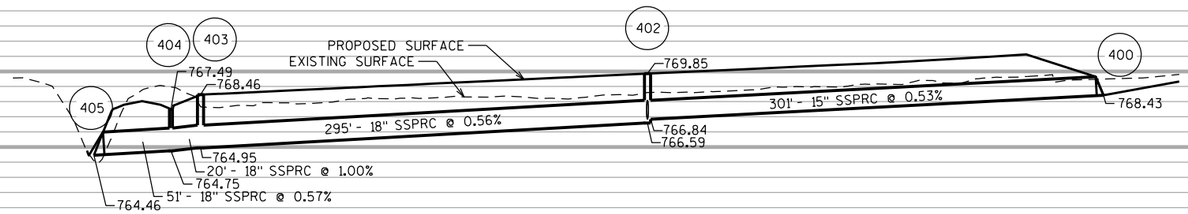
836 838 840 842 844 846 848

RIPRAP 2842

POST POST

END PROJECT
I.D. 1033-02-78
STA. 4845+07.63
MATCH EXISTING





780 775 770 765 760 755 750 745

PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	STORM SEWER: SEG. 14 WFR	SHEET 51 E

FILE NAME : S:\2015\WisDOT\I-94_N-S\CADD files\CDS\SSE_IH-94_14WFR_SS5.dgn PLOT DATE : 11/28/2016 PLOT BY : Harlan PLOT NAME : _____ PLOT SCALE : 1:100

2

N

1R04
REMOVE
STOP AHEAD

R/L 56TH ROAD

46
48
50
56TH ROAD

650' +/-

1M01
MOVE
CLASS B HIGHWAY

1R03
REMOVE

PARK & RIDE
CRASH INVESTIGATION SITE
EXIT 335
ESTR
TYPE 1
(GRADE AROUND SIGN-DO NOT EXCAVATE AROUND STEEL SUPPORTS)

BEGIN PROJECT
I.D. 1033-02-78
STA 4785+00
= MATCH PROJECT
I.D. 1030-24-74

1R01
REMOVE
STOP

SALVAGE
BY LOCAL MUNICIPALITY
56TH ROAD
SYLVANIA

R/L WEST FRONTAGE ROAD

4782 4784 4786 4788 4790 4792

WEST FRONTAGE ROAD

MATCHLINE 4793+00

IH 94 SB

778 780 782 784 786 788 790 792

R/L IH 94

IH 94 NB

EAST FRONTAGE ROAD

5788 5790 5792

R/L EAST FRONTAGE ROAD

LOUIS SORENSON ROAD

LEGEND

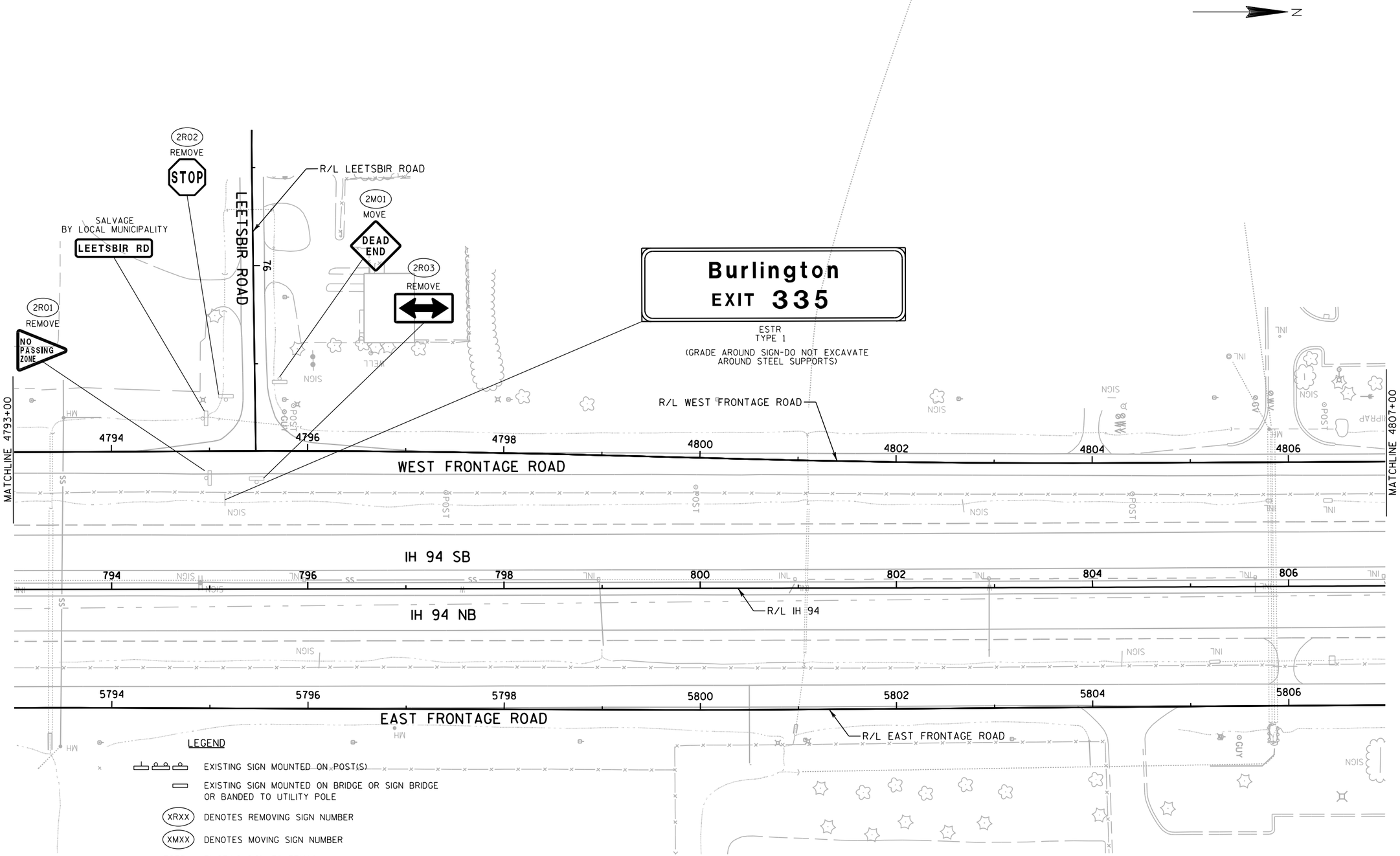
- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE OR BANDED TO UTILITY POLE
- (XRXX) DENOTES REMOVING SIGN NUMBER
- (XMXX) DENOTES MOVING SIGN NUMBER
- ESTR EXISTING SIGN TO REMAIN

NOTE

CONTRACTOR SHALL NOT REMOVE EXISTING SIGNING UNTIL THE ROADWAY IS READY FOR NEW SIGNING SO THERE IS NOT A LACK OF PROPER SIGNING WHEN THE ROADWAY IS OPEN TO TRAFFIC.

PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	EXISTING SIGNING: WEST FRONTAGE ROAD	SHEET 52	E

2



NOTE

CONTRACTOR SHALL NOT REMOVE EXISTING SIGNING UNTIL THE ROADWAY IS READY FOR NEW SIGNING SO THERE IS NOT A LACK OF PROPER SIGNING WHEN THE ROADWAY IS OPEN TO TRAFFIC.

PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	EXISTING SIGNING: WEST FRONTAGE ROAD	SHEET 53	E

2

N

EXIT 335

11

Racine
Burlington
1 Mile

ESTR TYPE 1
(GRADE AROUND SIGN - DO NOT
EXCAVATE AROUND STEEL SUPPORTS)

MATCHLINE 4807+00

4808 4810 4812 4814 4816 4818 4820

R/L WEST FRONTAGE ROAD

WEST FRONTAGE ROAD

MATCHLINE 4821+00

IH 94 SB

808 810 812 814 816 818 820

R/L IH 94

IH 94 NB

5808 5810 5812 5814 5816 5818 5820

EAST FRONTAGE ROAD

R/L EAST FRONTAGE ROAD

LEGEND

	EXISTING SIGN MOUNTED ON POST(S)
	EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE OR BANDED TO UTILITY POLE
XRXX	DENOTES REMOVING SIGN NUMBER
XMXX	DENOTES MOVING SIGN NUMBER
ESTR	EXISTING SIGN TO REMAIN

NOTE

CONTRACTOR SHALL NOT REMOVE EXISTING SIGNING UNTIL THE ROADWAY IS READY FOR NEW SIGNING SO THERE IS NOT A LACK OF PROPER SIGNING WHEN THE ROADWAY IS OPEN TO TRAFFIC.

PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	EXISTING SIGNING: WEST FRONTAGE ROAD	SHEET 54	E

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE OR BANDED TO UTILITY POLE

(XRXX) DENOTES REMOVING SIGN NUMBER

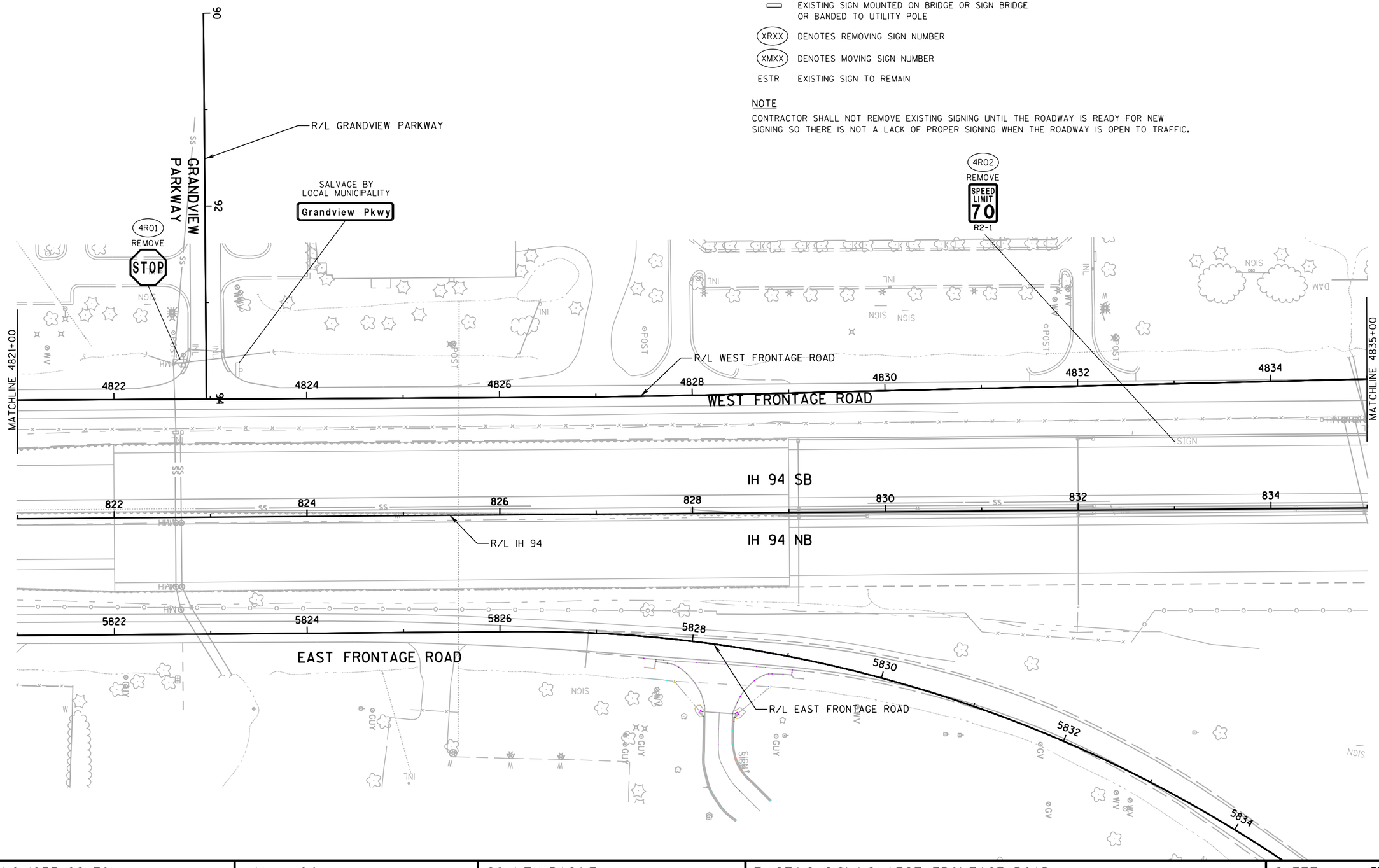
(XMXX) DENOTES MOVING SIGN NUMBER

ESTR EXISTING SIGN TO REMAIN

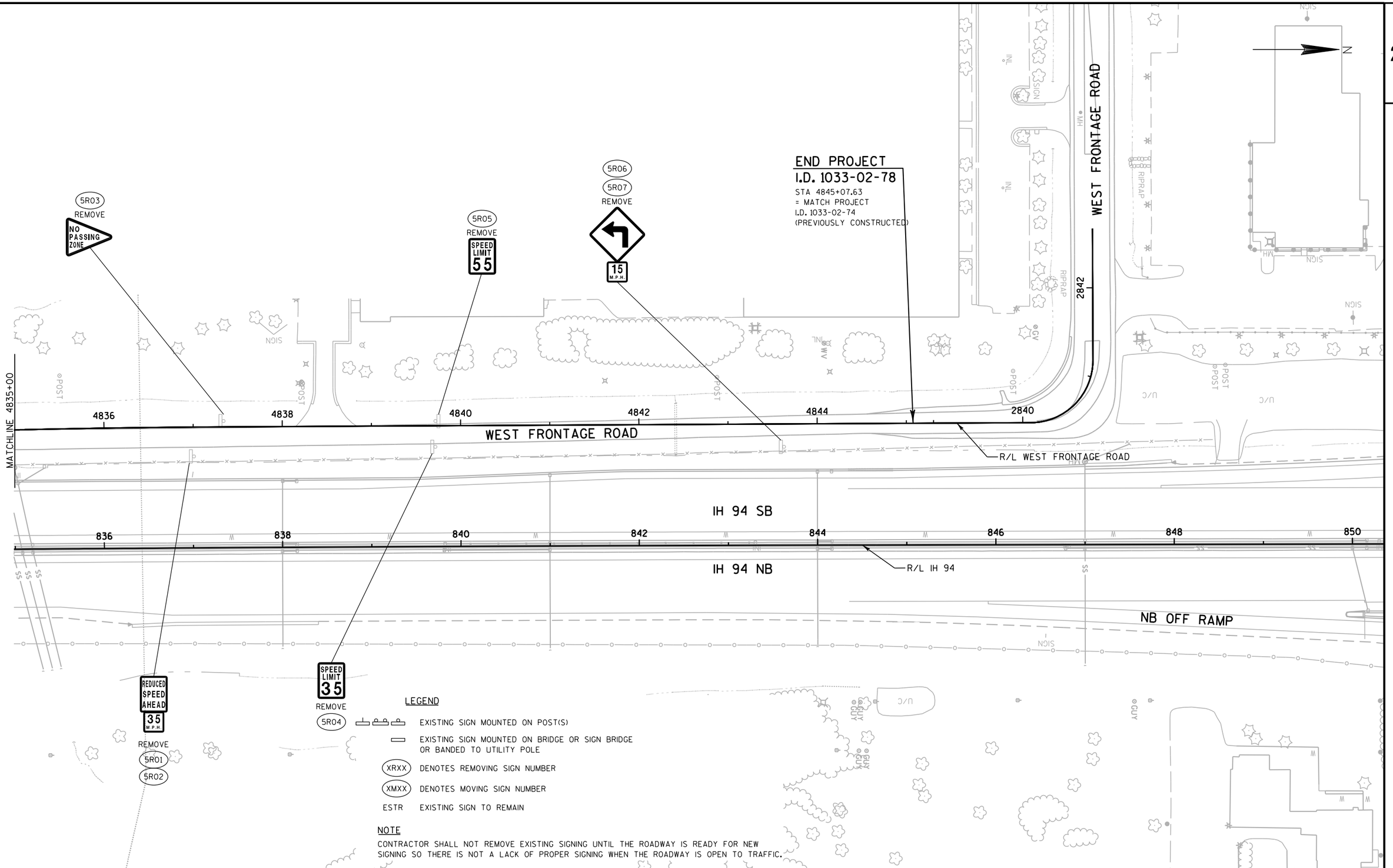
N

NOTE

CONTRACTOR SHALL NOT REMOVE EXISTING SIGNING UNTIL THE ROADWAY IS READY FOR NEW SIGNING SO THERE IS NOT A LACK OF PROPER SIGNING WHEN THE ROADWAY IS OPEN TO TRAFFIC.



PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	EXISTING SIGNING: WEST FRONTAGE ROAD	SHEET 55	E



PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	EXISTING SIGNING: WEST FRONTAGE ROAD	SHEET 56	E

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POST(S)
- (XMXX) DENOTES MOVING SIGN NUMBER
- (XPXX) DENOTES PROPOSED SIGN NUMBER

1P05 1P06 W3-1 36" X 36"

56TH ROAD

46

R/L 56TH ROAD

1P01 SPEED LIMIT 55 R2-1 24" X 30"

1M01 WEIGHT LIMIT CLASS B R12-53 24" X 30"

1P07 ONLY ONLY R3-8D 36" X 30"

BEGIN PROJECT
I.D. 1033-02-78
STA 4785+00
= MATCH PROJECT
I.D. 1030-24-74

1P02 1P04 STOP R1-1 36" X 36"

R/L WEST FRONTAGE ROAD

4782 4784 4786 4788 WEST FRONTAGE ROAD 4790 4792

MATCHLINE 4793+00

1P03 W1-7 48" X 24"

R/L IH 94

IH 94 SB

778 780 782 784 786 788 790 792

IH 94 NB

EAST FRONTAGE ROAD 5788 5790 5792

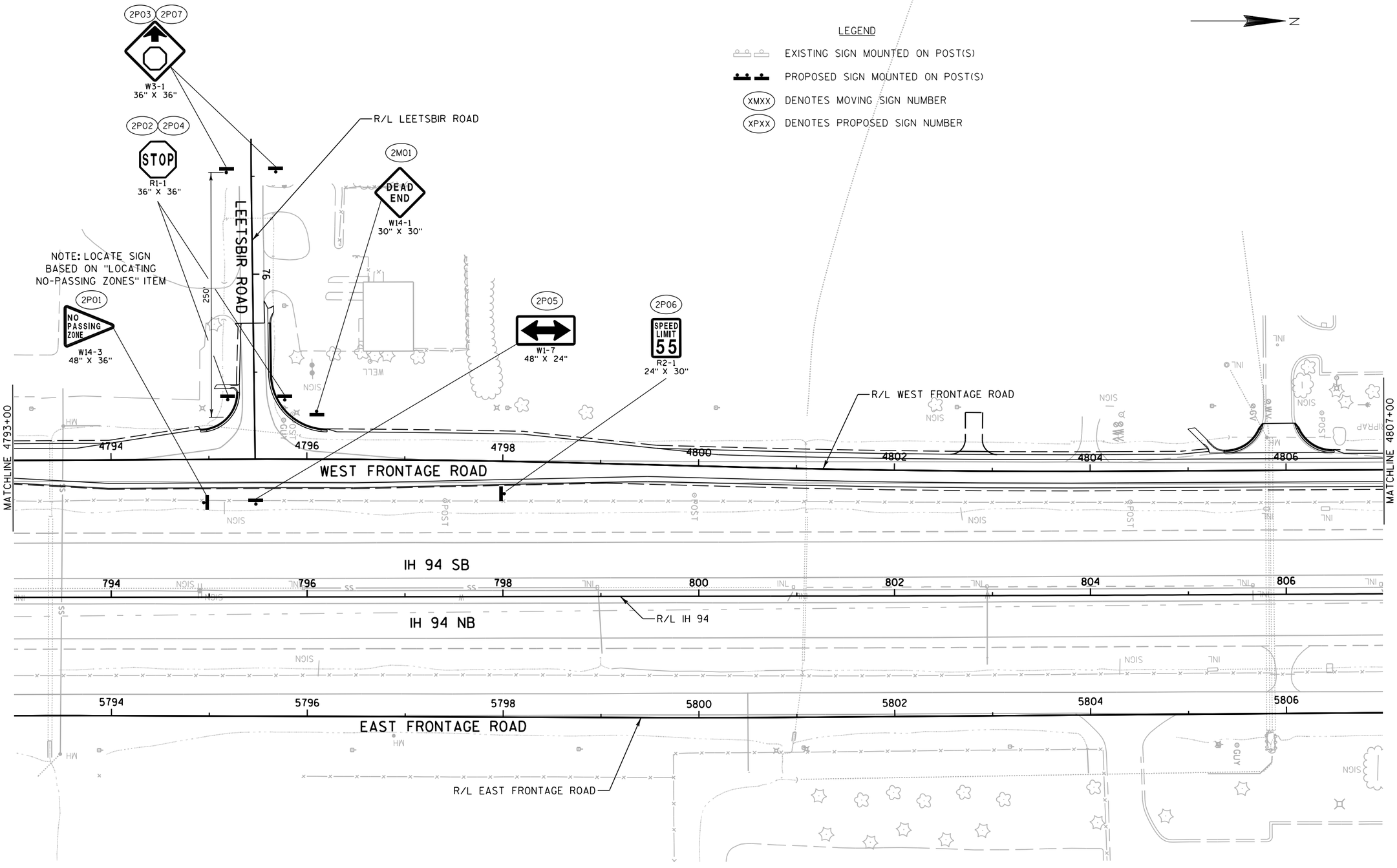
R/L EAST FRONTAGE ROAD

LOUIS SORENSON ROAD

PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	PERMANENT SIGNING: WEST FRONTAGE ROAD	SHEET 57	E

FILE NAME : Z:\Racine\CADDS\14\14W\CDS\023211_ps.dgn PLOT DATE : 7/31/2017 PLOT BY : bjw PLOT NAME : PLOT SCALE : 1:100

2



PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	PERMANENT SIGNING: WEST FRONTAGE ROAD	SHEET 58	E

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON POST(S)

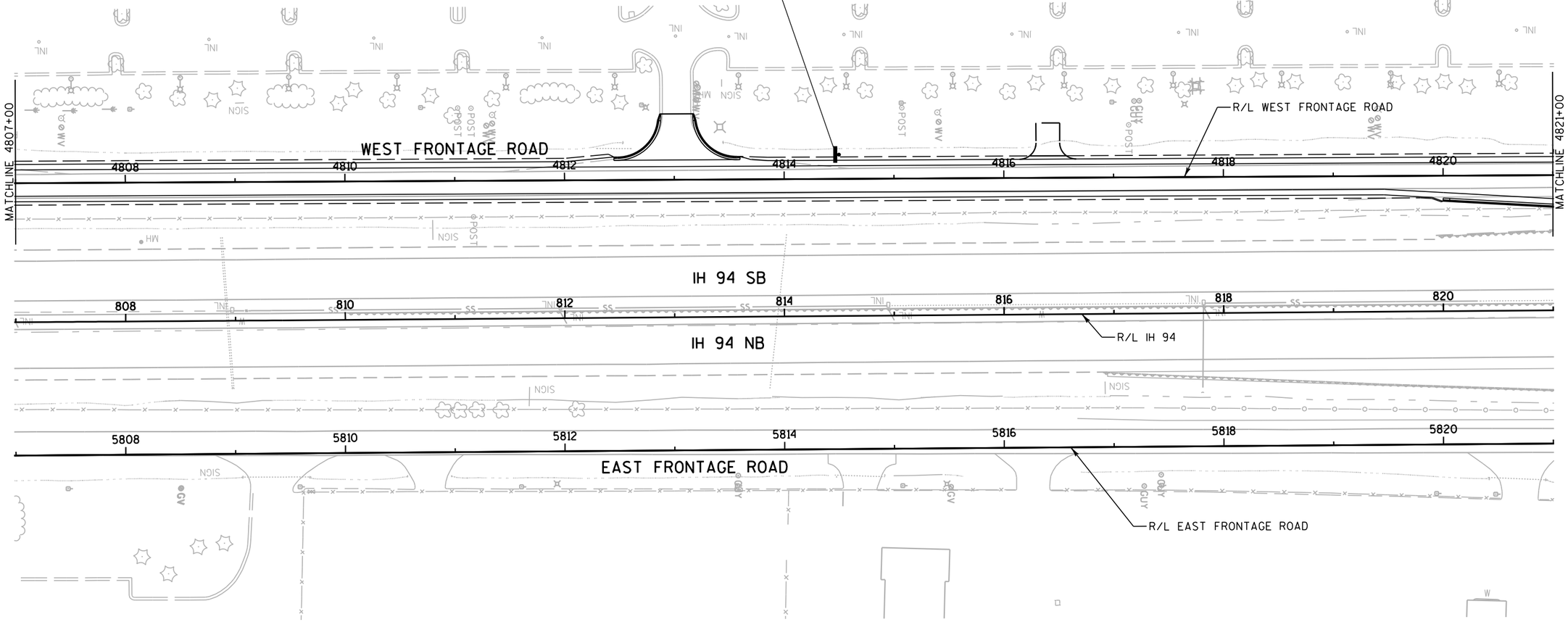
(XMXX) DENOTES MOVING SIGN NUMBER

(XPXX) DENOTES PROPOSED SIGN NUMBER

N

NOTE: LOCATE SIGN BASED ON "LOCATING NO-PASSING ZONES" ITEM

W14-3
48" X 36"



PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	PERMANENT SIGNING: WEST FRONTAGE ROAD	SHEET 59	E

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON POST(S)

(XMXX) DENOTES MOVING SIGN NUMBER

(XPXX) DENOTES PROPOSED SIGN NUMBER

N

4P03 4P07
W3-1
36" X 36"

4P02 4P06
STOP
R1-1
36" X 36"

4P01
SPEED LIMIT 55
R2-1
24" X 30"

4P04
SPEED LIMIT 55
R2-1
24" X 30"

4P09
SPEED LIMIT 70
R2-1
48" X 60"

4P08
SPEED LIMIT 35
W3-5
36" X 36"

4P05
W1-7
48" X 24"

250'

GRANDVIEW PARKWAY

WEST FRONTAGE ROAD

R/L WEST FRONTAGE ROAD

IH 94 SB

IH 94 NB

R/L IH 94

EAST FRONTAGE ROAD

R/L EAST FRONTAGE ROAD

MATCHLINE 4821+00

MATCHLINE 4835+00

4822 4824 4826 4828 4830 4832 4834

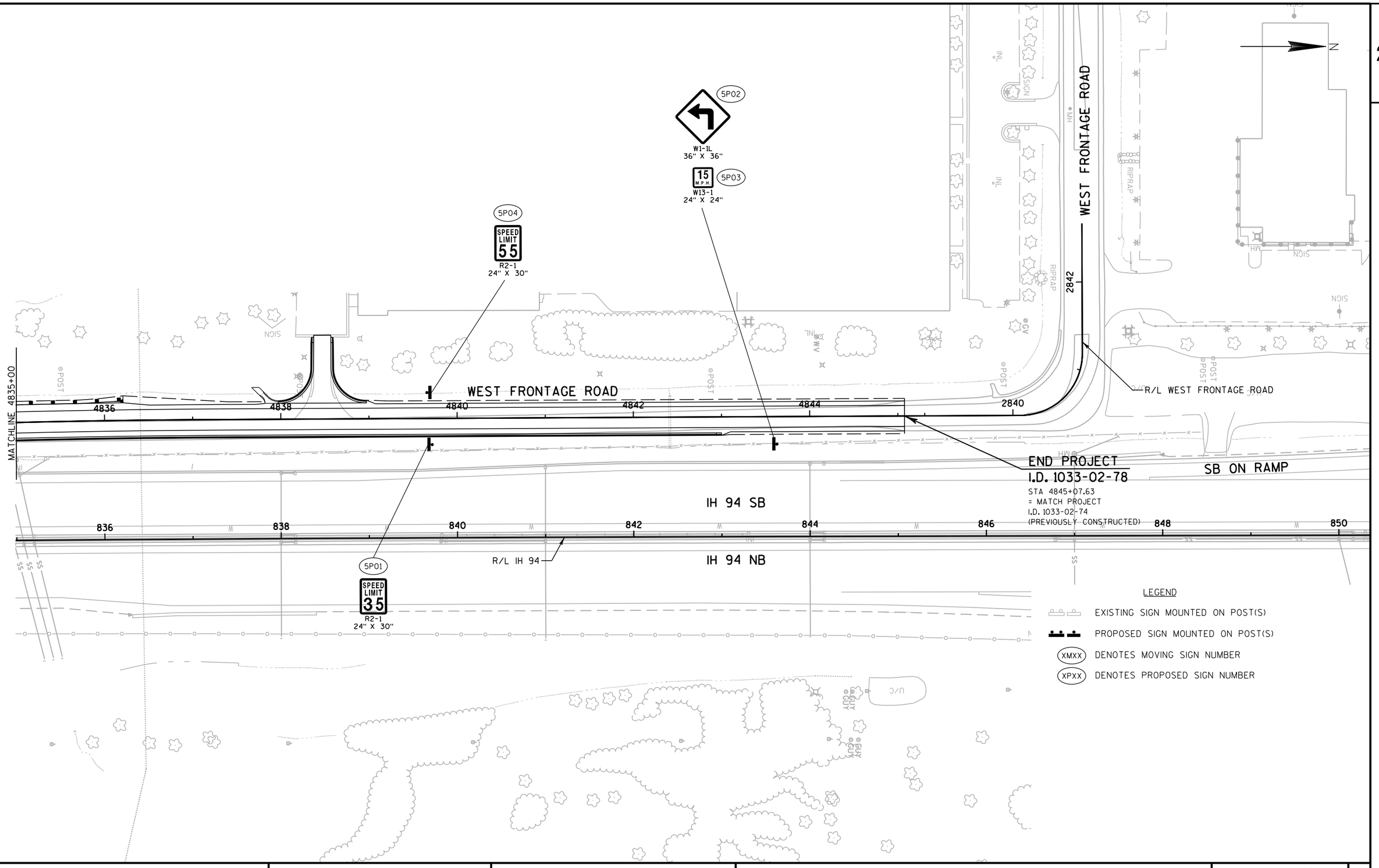
822 824 826 828 830 832 834

5822 5824 5826 5828 5830 5832 5834

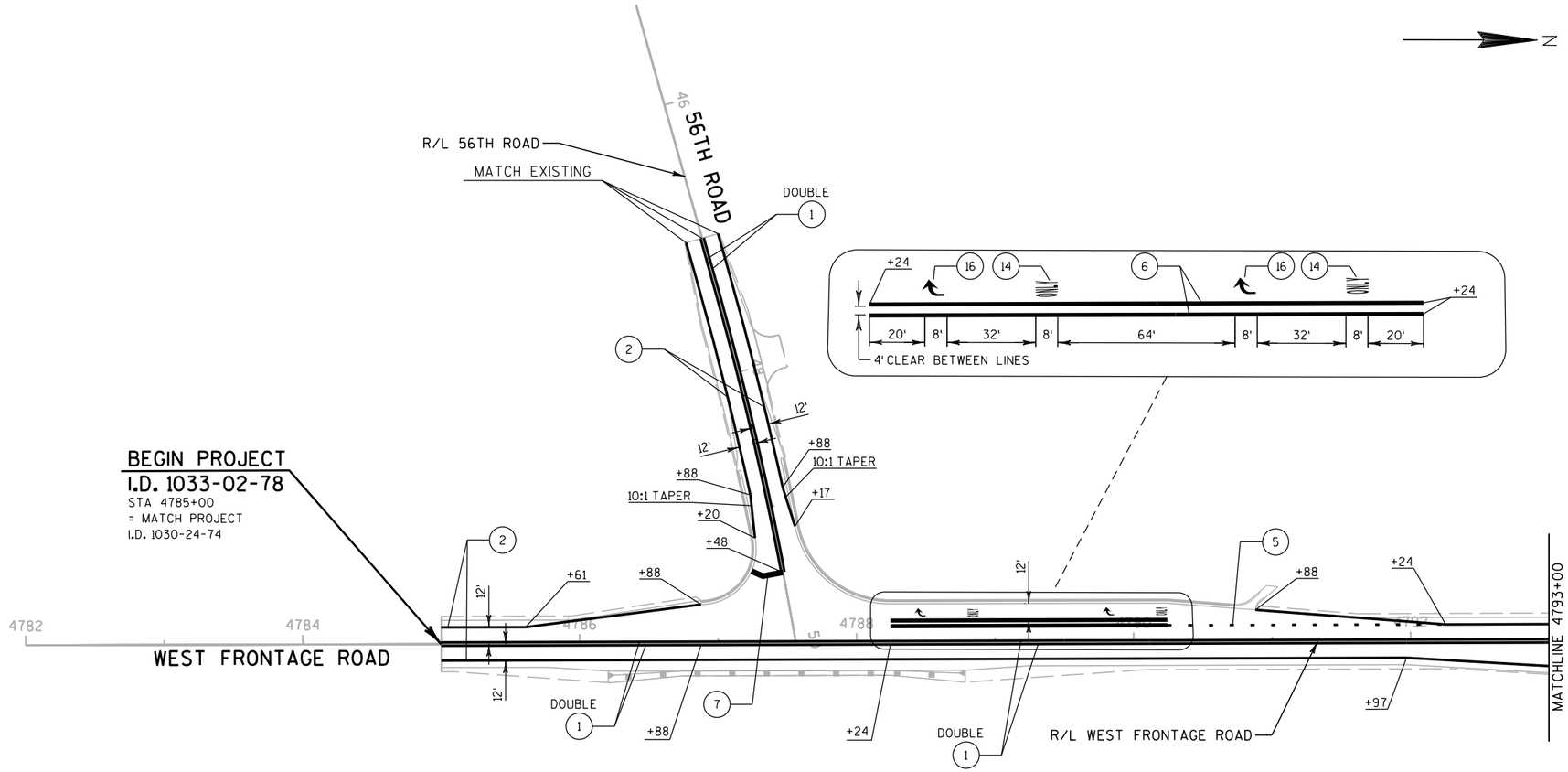
PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	PERMANENT SIGNING: WEST FRONTAGE ROAD	SHEET 60	E

FILE NAME : Z:\Racine\CADDS\14\14W\CDS\023214_ps.dgn PLOT DATE : 7/31/2017 PLOT BY : bjw PLOT NAME : PLOT SCALE : 1:100

2



PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	PERMANENT SIGNING: WEST FRONTAGE ROAD	SHEET 61	E



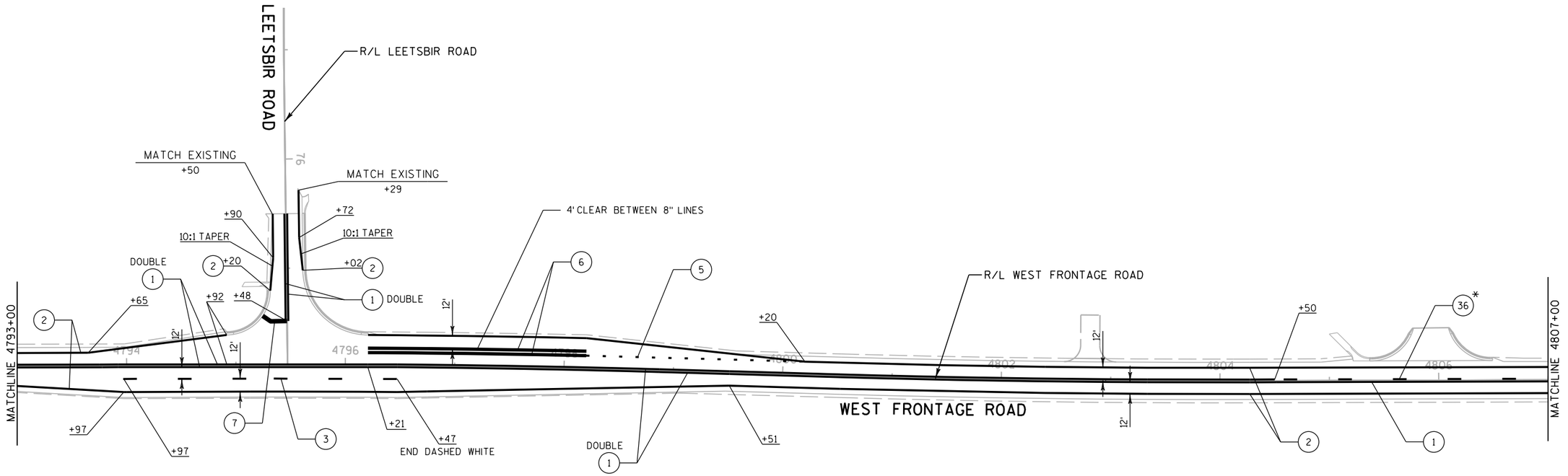
* - LIMITS OF PAVEMENT MARKING EPOXY 4-INCH (DASHED YELLOW) WILL BE DETERMINED UNDER THE PAY ITEM LOCATING NO-PASSING ZONES.

PAVEMENT MARKING LEGEND

1	PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
2	PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
3	PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP)
5	PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 8-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)
6	PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 8-INCH (WHITE)
7	PAVEMENT MARKING STOPLINE EPOXY 18-INCH (WHITE)
36	PAVEMENT MARKING EPOXY 4-INCH (DASHED YELLOW) (12.5 FT LINE 37.5 FT SKIP)
14	PAVEMENT MARKING WORDS EPOXY (WHITE)
16	PAVEMENT MARKING ARROWS EPOXY TYPE 2

2

N



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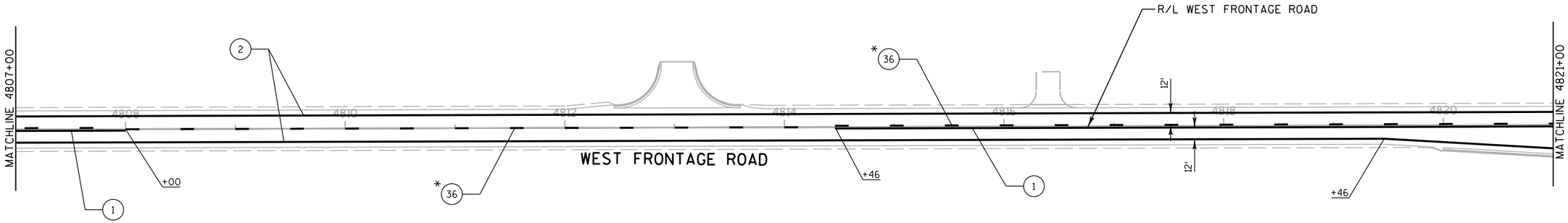
36	PAVEMENT MARKING EPOXY 4-INCH (DASHED YELLOW) (12.5 FT LINE 37.5 FT SKIP)
14	PAVEMENT MARKING WORDS EPOXY (WHITE)
16	PAVEMENT MARKING ARROWS EPOXY TYPE 2

PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	PAVEMENT MARKING: WEST FRONTAGE ROAD	SHEET 63	E

2

N



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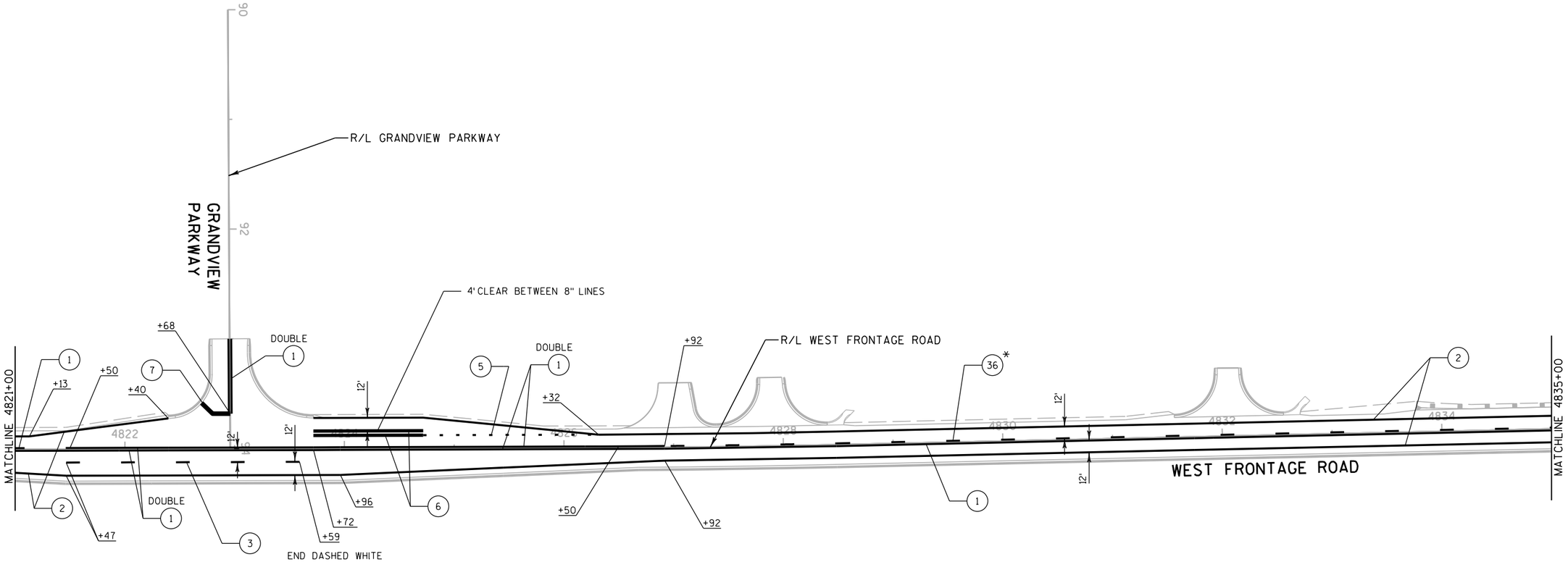
36	PAVEMENT MARKING EPOXY 4-INCH (DASHED YELLOW) (12.5 FT LINE 37.5 FT SKIP)
14	PAVEMENT MARKING WORDS EPOXY (WHITE)
16	PAVEMENT MARKING ARROWS EPOXY TYPE 2

PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	PAVEMENT MARKING: WEST FRONTAGE ROAD	SHEET 64	E

2

N



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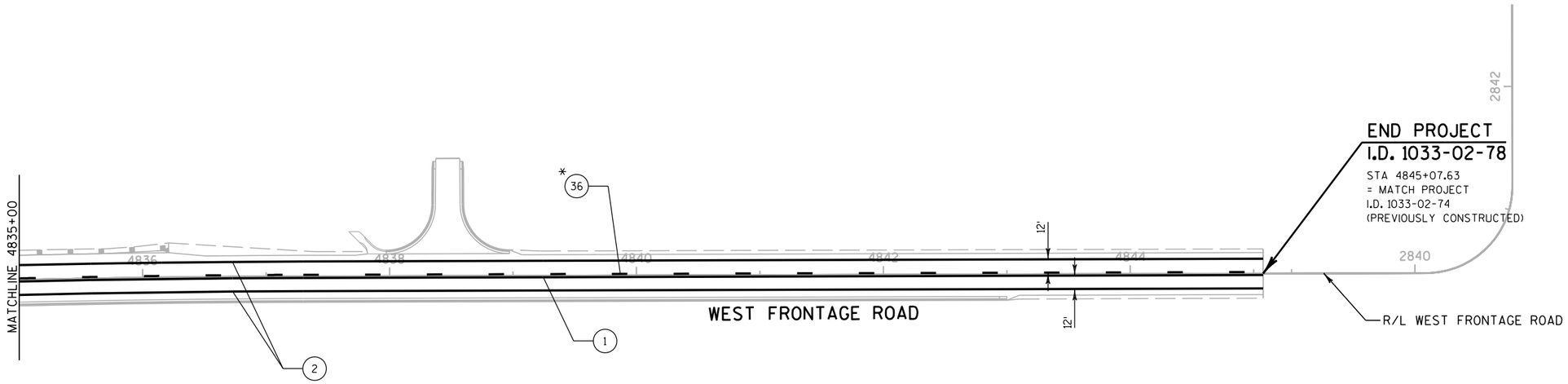
36	PAVEMENT MARKING EPOXY 4-INCH (DASHED YELLOW) (12.5 FT LINE 37.5 FT SKIP)
14	PAVEMENT MARKING WORDS EPOXY (WHITE)
16	PAVEMENT MARKING ARROWS EPOXY TYPE 2

PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	PAVEMENT MARKING: WEST FRONTAGE ROAD	SHEET 65	E

2

N



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14	PAVEMENT MARKING WORDS EPOXY (WHITE)
16	PAVEMENT MARKING ARROWS EPOXY TYPE 2

PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	PAVEMENT MARKING: WEST FRONTAGE ROAD	SHEET 66	E

2

WEST FRONTAGE ROAD

CONSTRUCTION

-WEST FRONTAGE ROAD CONSTRUCTION

TRAFFIC

-WEST FRONTAGE ROAD CLOSED TO THROUGH TRAFFIC

LOCATE/PLACE SIGNS @ INTERSECTION WITH 58TH ROAD NE QUADRANT

1401

ROAD CLOSED 1.0 MILES AHEAD LOCAL TRAFFIC ONLY
R11-3
60" X 30"

ROAD CLOSED AHEAD
W20-3A

ROAD CLOSED 1000 FT
W20-3C

ROAD CLOSED 500 FT
W20-3D

END ROAD WORK
G20-2A
48" X 24"

56TH ROAD

BEGIN PROJECT 1033-02-78
END PROJECT 1030-24-74
STA. 4785+00

LEETSBIR ROAD

R11-4
60" X 30"
ROAD CLOSED TO THRU TRAFFIC

ROAD CLOSED AHEAD
W20-3A

ROAD CLOSED 500 FT
W20-3D

END PROJECT 1033-02-78
STA. 2338+75

GRANDVIEW PARKWAY

ROAD CLOSED 500 FT
W20-3D

ROAD CLOSED 1000 FT
W20-3C

ROAD CLOSED AHEAD
W20-3A

1402
1405
1406
1403
STH 20

WEST FRONTAGE ROAD

IH 94

100' TYP.

EAST FRONTAGE ROAD

IH 94

STA 4785+00 TO STA 2840+50
TRAFFIC CONTROL DRUMS
INSTALL AT EDGE OF GRAVEL SHOULDER
OF IH 94 SOUTHBOUND

R11-4
60" X 30"
ROAD CLOSED TO THRU TRAFFIC

ROAD WORK AHEAD
W20-1A

LOCATE ADJACENT TO IH 94 SB

1407

1404

STH 20

IH 94

LOUIS SORENSON ROAD

SEE PROJECT I.D. 1030-24-74 FOR ADDITIONAL WEST FRONTAGE ROAD TRAFFIC CONTROL AND DETOUR PLAN.

N

2

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN AND TYPE "A" LIGHTS
- TRAFFIC CONTROL DRUM
- SIGN ON PERMANENT SUPPORT
- WORK AREA THIS STAGE
- DIRECTION OF TRAFFIC

GENERAL NOTES FOR CONSTRUCTION STAGING AND TRAFFIC CONTROL

1. ALL TRAFFIC CONTROL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED IN THE PLANS.
2. "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS REFLECTIVE ORANGE.
3. TRAFFIC CONTROL DRUMS IN TAPERS, SHALL BE EQUIPPED WITH TRAFFIC CONTROL WARNING LIGHTS, TYPE "C", ONE WAY LIGHTS IN TAPERS ONLY. UNLESS OTHERWISE SHOWN, DRUMS SHALL BE SPACED AT 25-FT OC IN TAPERS AND 50-FT OC ON TANGENTS OR AS OTHERWISE SHOWN.
4. SIGN LOCATIONS ARE APPROXIMATE. THE ACTUAL LOCATION SPACING MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER TO MEET FIELD CONDITIONS.
5. ALL SIGNS, TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE COVERED OR REMOVED AS NEEDED AND/OR AS DIRECTED BY THE ENGINEER.
6. ALL EXISTING CONFLICTING PAVEMENT MARKING SHALL BE REMOVED.
7. A FLAGGER MAY BE REQUIRED WHERE CONSTRUCTION VEHICLES ENTER OR LEAVE "WORK/CLOSED" AREAS IF WARRANTED BY CONDITIONS AND/OR AS DIRECTED BY THE ENGINEER.
8. CONTRACTOR SHALL INSTALL PERMANENT SIGNS AND PERMANENT PAVEMENT MARKING WHEN APPROPRIATE DURING CONSTRUCTION STAGING AS SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER.
9. ADEQUATE TURNING PROVISION SHALL BE MAINTAINED FOR ALL VEHICLES, INCLUDING TRUCKS AS DIRECTED BY THE ENGINEER.
10. TEMPORARY SIDE ROAD CLOSURES MAY BE NECESSARY FOR ASPHALTIC CONCRETE PAVING OF SIDE ROADS.
11. BARRICADE STRIPES ARE TO BE SLOPED DOWNWARD IN THE DIRECTION OF TRAFFIC FLOW

PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	TRAFFIC CONTROL: OVERVIEW - STAGE 1	SHEET 67	E

2

2

N

BEGIN PROJECT
I.D. 1033-02-78
STA 4785+00
= MATCH PROJECT
I.D. 1030-24-74

56TH ROAD

LEETSBIR ROAD

R/L 56TH ROAD

R/L LEETSBIR ROAD

R/L WEST FRONTAGE ROAD

4782

4785

4790

4795

WEST FRONTAGE ROAD

50'

75'

MATCHLINE 4799+00

+00.00
46.00' RT

FENCE WOVEN WIRE 4-FT

+12.85
46.00' RT

IH 94 SB

IH 94 NB

R/L IH 94

EAST FRONTAGE ROAD

5790

5795

R/L EAST FRONTAGE ROAD

LOUIS SORENSON ROAD

PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	FENCE PLAN: WEST FRONTAGE ROAD	SHEET 68	E

FILE NAME : Z:\Racine\CADDS\14\14W\CDS\027101_FN.dgn PLOT DATE : 7/31/2017 PLOT BY : bjw PLOT NAME : PLOT SCALE : 1:200

WISDOT/CADDS SHEET 42

2

N

GRANDVIEW PARKWAY

R/L GRANDVIEW PARKWAY

R/L WEST FRONTAGE ROAD

WEST FRONTAGE ROAD

MATCHLINE 4799+00

MATCHLINE 4829+00

4800 4805 4810 4815 4820 4825

+52.91 46.00' RT

+46.51 39.50' RT

+92.17 47.61' RT

FENCE WOVEN WIRE 4-FT

+00.00 52.50' RT

+41.69 48.24' RT

+25.35 46.00' RT

+00.00 46.00' RT

+00.00 36.00' RT

+00.00 36.50' RT

IH 94 SB

IH 94 NB

R/L IH 94

5800 5805 5810 5815 5820 5825

EAST FRONTAGE ROAD

R/L EAST FRONTAGE ROAD

google overhead ATT

PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	FENCE PLAN: WEST FRONTAGE ROAD	SHEET 69	E

2

N

END PROJECT
I.D. 1033-02-78
STA 4845+07.63
= MATCH PROJECT
I.D. 1033-02-74
(PREVIOUSLY CONSTRUCTED)

MATCHLINE 4829+00

WEST FRONTAGE ROAD

4830 4835 4840 4845 2840

R/L WEST FRONTAGE ROAD

SB ON RAMP

+00.00
36.50' RT

FENCE WOVEN WIRE 4-FT

+46.23
48.10' RT

+82.87
40.53' RT

+47.98
40.96' RT

+07.63
27.35' RT

IH 94 SB

IH 94 NB

R/L IH 94

NB OFF RAMP

5830

R/L EAST FRONTAGE ROAD

5835

3835

EAST FRONTAGE ROAD

3840

3845

3850

STH 20

PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	FENCE PLAN: WEST FRONTAGE ROAD	SHEET 70	E

2

POINT SEC4787
Y=175702.44
X=591478.72

T3N R21E 24 25

SECTION LINE

N 89° 51' 48.25" W

2639.16'

STA. 45+25.00
Y= 177908.61
X= 593451.69

R/L 56TH ROAD

N

56TH ROAD

N 74° 4' 48.81" E

POINT SEC3103
Y=178363.46
X=591472.83

T3N R21E 24

1/4 LINE

N 89° 53' 8.88" E

2640.05'

BEGIN CONSTRUCTION
STA. 47+00

56TH ROAD STA. 50+00.00 =
WEST FRONTAGE ROAD STA. 4787+56.09
Y= 178024.97
X= 593911.92

PC
CL 335

STA. 4790+99.45
Y= 178368.32
X= 593910.15

R/L WEST FRONTAGE ROAD

CURVE CL 335

BEGIN PROJECT
I.D. 1033-02-78
STA. 4785+00
= MATCH PROJECT
I.D. 1030-24-74
Y= 177768.88
X= 593913.25

PI
CL 335

PT
CL 335

N 79° 42' 13.00" E

CP78638

4782 4785 4790

50

N 0° 17' 47.09" W

WEST FRONTAGE ROAD

139.15'

R/L IH 94

780 785 790

IH 94

SEC3104
CP 1

63.57'

SECTION LINE

2672.58'

N 0° 6' 25.43" W

R/L EAST FRONTAGE ROAD

5790

EAST FRONTAGE ROAD

POINT SEC3117
Y=175696.15
X=594117.87

T3N R22E 24 25 19 30

SECTION LINE

S 88° 56' 45.47" E

1672.58'

POINT SEC3104
Y=178368.73
X=594112.87

T3N R22E 24 19

1/4 LINE

S 88° 43' 15.63" E

2500.00'

POINT SEC3106
Y=175650.19
X=596615.74

T3N R22E 30 19

POINT SEC3093
Y=178312.92
X=596612.25

T3N R22E 19

CURVE DATA

CURVE		PI COORDINATES										
NO.	PI	X	Y	Δ	D	T	L	E	R	PC	PT	SE
CL335	48+53.84	593767.92	177998.80	5°37'24.19"	2°17'30.59"	122.78	245.37	3.01	2500.00	47+31.06	49+76.43	NC

PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	ALIGNMENT LAYOUT: WEST FRONTAGE ROAD	SHEET 71	E

2

POINT SEC3103
Y=178363.46
X=591472.83

POINT SEC3090
Y=181012.86
X=591458.89

POINT SEC3104
Y=178368.73
X=594112.87

POINT SEC3091
Y=181033.47
X=594106.88

POINT SEC3093
Y=178312.92
X=596612.25

POINT SEC3080
Y=180972.33
X=596608.43

1/4 LINE

N 89° 53' 8.88" E

2640.05'

S 88° 43' 15.63" E

2500.00'

SECTION LINE N 89° 33' 14.08" E 1934.60'

SECTION LINE S 88° 35' 59.55" E 2502.30'

LEETSBIR ROAD

CURVE CUR 207

N 89° 10' 44.84" E

STA. 74+61.65
Y= 178811.88
X= 593580.65

PC
CUR 207

PI
CUR 207

PT
CUR 207

BEGIN CONSTRUCTION
STA. 76+50

R/L LEETSBIR ROAD

CP79509

STA. 4790+99.45
Y= 178368.32
X= 593910.15

LEETSBIR ROAD STA. 77+88.91 =
WEST FRONTAGE ROAD STA. 4795+47.19
Y= 178816.06
X= 593907.88

R/L WEST FRONTAGE ROAD

STA. 4817+63.24
Y= 181031.96
X= 593913.21

PC
CL WFR 2

PI
CL WFR 2

PT
CL WFR 2

WEST FRONTAGE ROAD

4790 4795 4800 4805 4810 4815 4820

CURVE WFR1

N 0° 17' 47.09" W

PC
CL WFR 1

PI
CL WFR 1

PT
CL WFR 1

N 1° 29' 26.30" E

CURVE WFR2

N 0° 17' 47.00" W

139.15'

123.93'

R/L IH 94

790 795 800 805 810 815 820

63.57'

69.75'

SECTION LINE

2664.75'

S 0° 7' 43.50" E

IH 94

5790 5795 5800 5805 5810 5815 5820

EAST FRONTAGE ROAD

R/L EAST FRONTAGE ROAD

CURVE DATA

CURVE		PI COORDINATES										
NO.	PI	X	Y	Δ	D	T	L	E	R	PC	PT	SE
WFR1	4797+00.00	593907.04	178968.86	1°47'13.39"	0°28'38.87"	187.16	374.28	1.46	12000.00	4795+12.84	4798+87.12	NC
WFR2	4802+40.06	593921.09	179508.77	1°47'13.30"	0°28'38.87"	187.15	374.27	1.46	12000.00	4800+52.91	4804+27.18	NC
CUR207	74+93.61	593612.61	178811.83	0°54'56.31"	1°25'56.62"	31.96	63.92	0.13	4000.00	74+61.65	75+25.57	NC

PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	ALIGNMENT LAYOUT: WEST FRONTAGE ROAD	SHEET 72	E

FILE NAME : Z:\Racine\CADDS\14\14W\CDS\027202_ad.dgn PLOT DATE : 7/31/2017 PLOT BY : bjw PLOT NAME : PLOT SCALE : 1:200

2

STA. 90+00.00
Y= 181561.64
X= 593510.14

POINT SEC3090
Y=181012.86
X=591458.89

SECTION LINE N 89° 33'14.08" E 1934.60'

R/L GRANDVIEW PARKWAY

90 GRANDVIEW PARKWAY

N 89° 31'50.19" E

STA. 4817+63.24
Y= 181031.96
X= 593913.21

BEGIN CONSTRUCTION
STA. 93+00

GRANDVIEW PKWY STA. 94+00.33 =
WEST FRONTAGE ROAD STA. 4822+95.99
Y= 181564.71
X= 593910.45

PI
CL WFR 3

CP83343

WEST FRONTAGE ROAD

PC
CL WFR 3

CURVE WFR3

PT
CL WFR 3

N 1° 23'27.04" W

PI
CL WFR 4

PC
CL WFR 4

CURVE WFR4

PT
CL WFR 4

R/L WEST FRONTAGE ROAD

END PROJECT
I.D. 1033-02-78
STA. 4845+07.63
= MATCH PROJECT
I.D. 1033-02-74
(PREVIOUSLY CONSTRUCTED)
STA. 2838+77.00
Y 183776.08
X 593882.17

STA. 4844+15.47
Y 183683.92
X 593882.65

N 0° 17'47.00" W

123.93'

69.75'

136'

81'

IH 94

R/L IH 94

SECTION LINE 2652.71'
N 0° 08'43.22" W

EAST FRONTAGE ROAD

R/L EAST FRONTAGE ROAD

CP83178

POINT SEC3091
Y=180133.47
X=594106.88

POINT SEC3078
Y=183686.18
X=594100.16

POINT SEC3077
Y=183658.74
X=591455.76

N 89° 24'20.08" E

1/4 LINE

2644.54'

S 88° 40'22.29" E

2504.78'

SECTION LINE S 88° 35'59.55" E 2502.30'

POINT SEC3080
Y=180972.33
X=596608.43

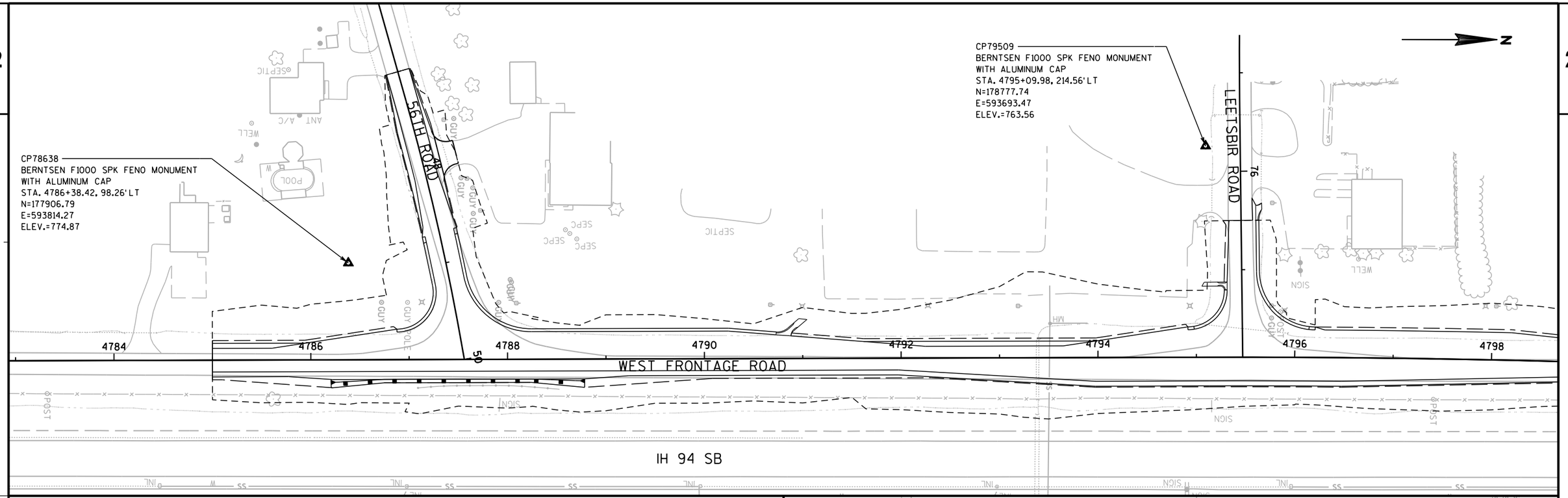
POINT SEC3067
Y=183628.16
X=596604.26

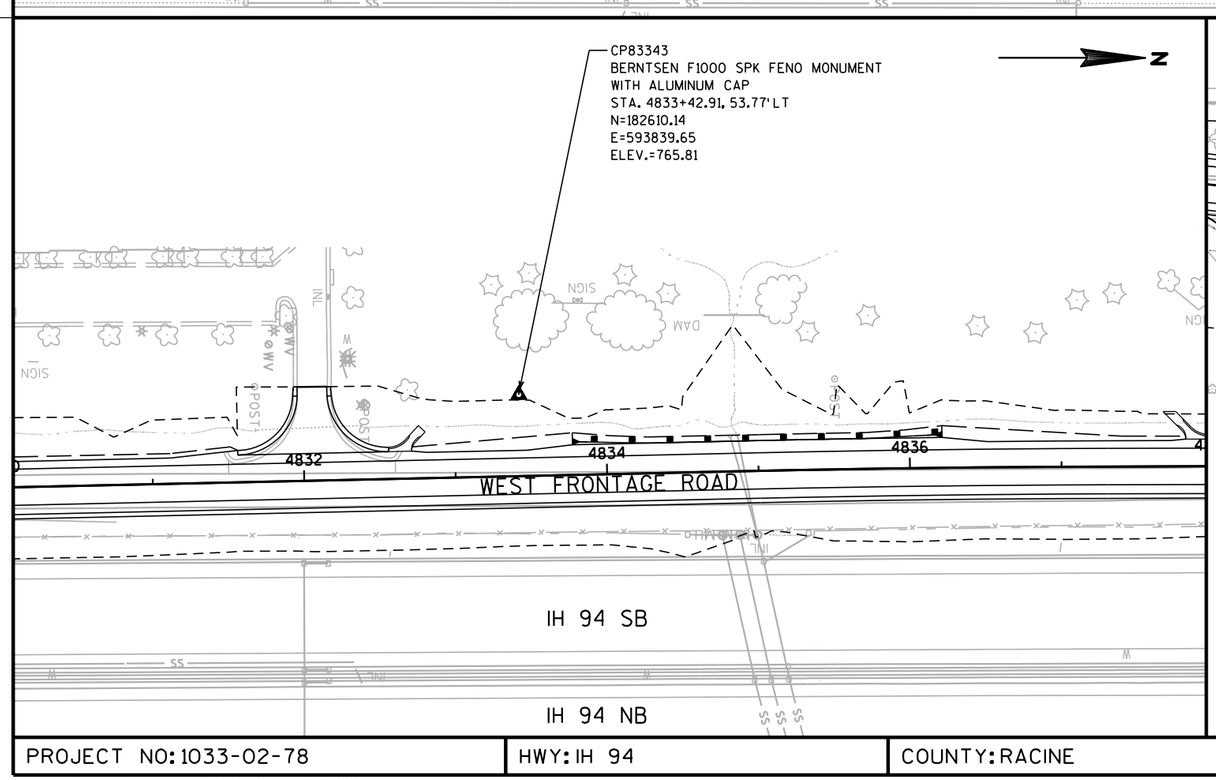
CURVE DATA												
CURVE		PI COORDINATES										
NO.	PI	X	Y	Δ	D	T	L	E	R	PC	PT	SE
WFR3	4827+33.81	593908.19	182002.51	1°05'40.04"	0°28'38.87"	114.61	229.22	0.55	12000.00	4826+19.19	4828+48.41	NC
WFR4	4836+15.54	593886.79	182884.00	1°05'40.05"	0°28'38.87"	114.61	229.22	0.55	12000.00	4835+00.93	4837+30.15	NC

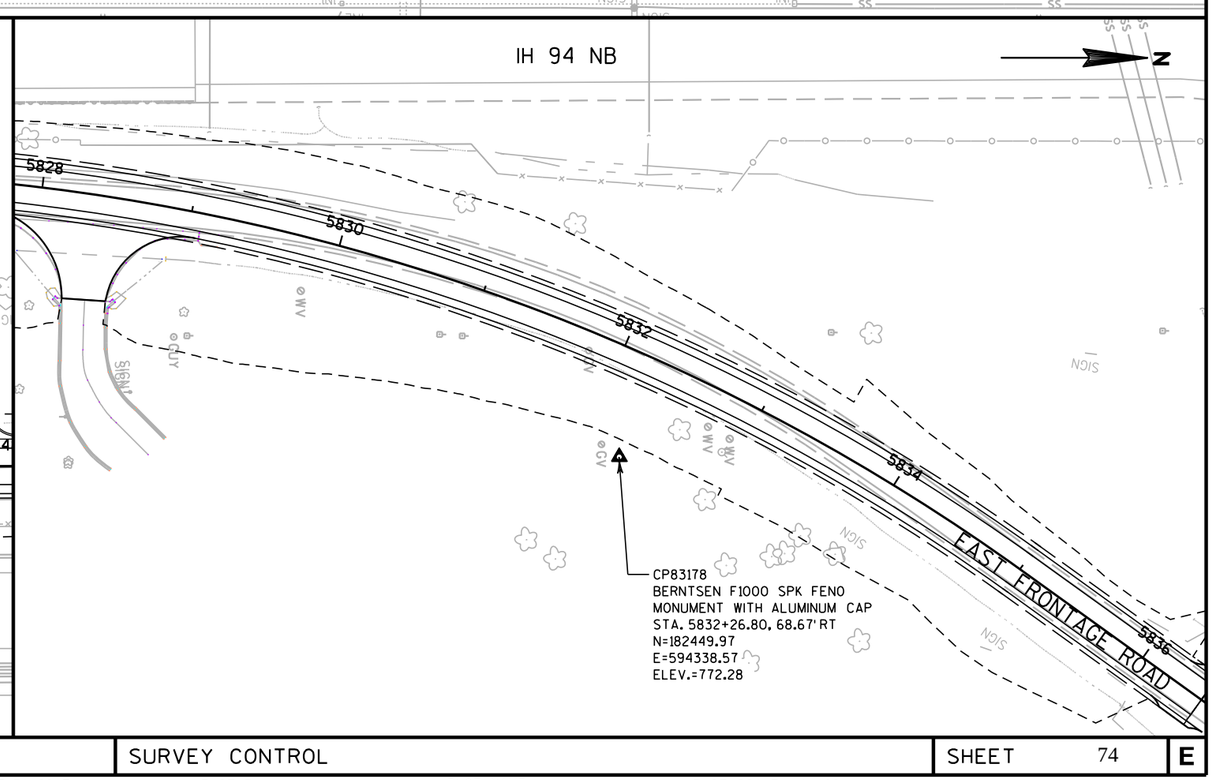
PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	ALIGNMENT LAYOUT: WEST FRONTAGE ROAD	SHEET 73	E

FILE NAME : Z:\Racine\CADDS\14\14W\CDS\027203_ad.dgn | PLOT DATE : 7/31/2017 | PLOT BY : bjw | PLOT NAME : | PLOT SCALE : 1:200

2







PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	SURVEY CONTROL	SHEET 74	E

FILE NAME : Z:\Racine\CADDS\14\14W\CDS\027204_ad.dgn PLOT DATE : 7/31/2017 PLOT BY : bjw PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

1033-02-78

Line	Item	Item Description	Unit	Total	Qty
0002	108.4400	CPM Progress Schedule	EACH	0.200	0.200
0004	201.0105	Clearing	STA	2.000	2.000
0008	201.0205	Grubbing	STA	2.000	2.000
0012	203.0100	Removing Small Pipe Culverts	EACH	11.000	11.000
0028	204.0150	Removing Curb & Gutter **P**	LF	845.000	845.000
0032	204.0170	Removing Fence **P**	LF	6,010.000	6,010.000
0034	204.0180	Removing Delineators and Markers	EACH	3.000	3.000
0040	204.0210	Removing Manholes	EACH	1.000	1.000
0042	204.0220	Removing Inlets	EACH	8.000	8.000
0044	204.0245	Removing Storm Sewer (size) 002. 6-Inch	LF	50.000	50.000
0046	204.0245	Removing Storm Sewer (size) 004. 12-Inch	LF	153.000	153.000
0048	204.0245	Removing Storm Sewer (size) 006. 15-inch	LF	22.000	22.000
0052	204.0245	Removing Storm Sewer (size) 008. 18-Inch	LF	197.000	197.000
0054	204.0245	Removing Storm Sewer (size) 010. 24-Inch	LF	65.000	65.000
0056	204.0245	Removing Storm Sewer (size) 012. 30-inch	LF	172.000	172.000
0062	204.0280	Sealing Pipes	EACH	3.000	3.000
0068	204.9090.S	Removing (item description) 002. Draintile	LF	195.000	195.000
0072	205.0100	Excavation Common	CY	33,048.000	33,048.000
0074	208.1100	Select Borrow	CY	13,361.000	13,361.000
0076	209.2100	Backfill Granular Grade 2	CY	255.000	255.000
0090	213.0100	Finishing Roadway (project) 034. 1033-02-78	EACH	1.000	1.000
0094	305.0110	Base Aggregate Dense 3/4-Inch	TON	2,715.000	2,715.000
0096	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	19,320.000	19,320.000
0098	311.0110	Breaker Run	TON	2,183.000	2,183.000
0100	440.4410	Incentive IRI Ride	DOL	2,448.000	2,448.000
0104	455.0605	Tack Coat	GAL	1,406.000	1,406.000
0106	460.2000	Incentive Density HMA Pavement	DOL	5,710.000	5,710.000
0108	460.5223	HMA Pavement 3 LT 58-28 S	TON	5,250.000	5,250.000
0110	460.5224	HMA Pavement 4 LT 58-28 S	TON	3,640.000	3,640.000
0116	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	215.000	215.000
0120	465.0315	Asphaltic Flumes	SY	122.000	122.000
0122	495.1000.S	Cold patch	TON	445.000	445.000
0128	504.0900	Concrete Masonry Endwalls	CY	4.600	4.600
0134	520.1012	Apron Endwalls for Culvert Pipe 12-Inch	EACH	4.000	4.000
0136	520.3312	Culvert Pipe Class III-A 12-Inch	LF	86.000	86.000
0140	520.3318	Culvert Pipe Class III-A 18-Inch	LF	80.000	80.000
0150	520.4130	Culvert Pipe Class IV 30-Inch	LF	83.000	83.000
0152	520.8000	Concrete Collars for Pipe	EACH	5.000	5.000
0160	521.1618	Apron Endwalls for Culvert Pipe Sloped Side Drains Steel 18-Inch 10 to 1	EACH	2.000	2.000

1033-02-78

Line	Item	Item Description	Unit	Total	Qty
0164	521.1630	Apron Endwalls for Culvert Pipe Sloped Side Drains Steel 30-Inch 10 to 1	EACH	2.000	2.000
0182	522.1015	Apron Endwalls for Culvert Pipe Reinforced Concrete 15-Inch	EACH	8.000	8.000
0184	522.1018	Apron Endwalls for Culvert Pipe Reinforced Concrete 18-Inch	EACH	4.000	4.000
0186	522.1024	Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	EACH	3.000	3.000
0188	522.1030	Apron Endwalls for Culvert Pipe Reinforced Concrete 30-Inch	EACH	1.000	1.000
0200	523.0429	Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 29x45-Inch	LF	62.000	62.000
0206	523.0529	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 29x45-Inch	EACH	4.000	4.000
0212	601.0553	Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type D **P**	LF	3,930.000	3,930.000
0220	606.0100	Riprap Light	CY	45.000	45.000
0226	608.0315	Storm Sewer Pipe Reinforced Concrete Class III 15-Inch	LF	817.000	817.000
0228	608.0318	Storm Sewer Pipe Reinforced Concrete Class III 18-Inch	LF	736.000	736.000
0230	608.0324	Storm Sewer Pipe Reinforced Concrete Class III 24-Inch	LF	170.000	170.000
0232	608.0330	Storm Sewer Pipe Reinforced Concrete Class III 30-Inch	LF	360.000	360.000
0246	608.0512	Storm Sewer Pipe Reinforced Concrete Class V 12-Inch	LF	400.000	400.000
0248	610.0129	Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-III 29x45-Inch	LF	237.000	237.000
0250	610.0134	Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-III 34x53-Inch	LF	216.000	216.000
0252	611.0420	Reconstructing Manholes	EACH	2.000	2.000
0254	611.0535	Manhole Covers Type J-Special	EACH	18.000	18.000
0256	611.0627	Inlet Covers Type HM	EACH	17.000	17.000
0258	611.0642	Inlet Covers Type MS	EACH	6.000	6.000
0260	611.2004	Manholes 4-FT Diameter	EACH	14.000	14.000
0262	611.2005	Manholes 5-FT Diameter	EACH	3.000	3.000
0266	611.2007	Manholes 7-FT Diameter	EACH	3.000	3.000
0270	611.3230	Inlets 2x3-FT	EACH	5.000	5.000
0274	611.3902	Inlets Median 2 Grate	EACH	3.000	3.000
0278	611.9800.S	Pipe Grates	EACH	8.000	8.000
0280	612.0106	Pipe Underdrain 6-Inch	LF	3,230.000	3,230.000
0288	612.0206	Pipe Underdrain Unperforated 6-Inch	LF	120.000	120.000

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Line	Item	Item Description	Unit	Total	Qty
0290	612.0700	Drain Tile Exploration	LF	600.000	600.000
0292	612.0806	Apron Endwalls for Underdrain Reinforced Concrete 6-Inch	EACH	3.000	3.000
0294	614.0230	Steel Thrie Beam	LF	150.000	150.000
0296	614.0370	Steel Plate Beam Guard Energy Absorbing Terminal	EACH	2.000	2.000
0298	614.0396	Guardrail Mow Strip Asphalt	SY	258.000	258.000
0300	614.0920	Salvaged Rail **P**	LF	1,307.000	1,307.000
0302	614.0925	Salvaged Guardrail End Treatments **P**	EACH	2.000	2.000
0304	614.2300	MGS Guardrail 3 **P**	LF	25.000	25.000
0306	614.2340	MGS Guardrail 3 L **P**	LF	112.500	112.500
0308	614.2610	MGS Guardrail Terminal EAT **P**	EACH	2.000	2.000
0310	616.0100	Fence Woven Wire (height) 001. 4-FT	LF	6,015.000	6,015.000
0312	616.0700.S	Fence Safety	LF	1,500.000	1,500.000
0324	618.0100	Maintenance And Repair of Haul Roads (project) 011. 1033-02-78	EACH	1.000	1.000
0326	619.1000	Mobilization	EACH	0.200	0.200
0330	623.0200	Dust Control Surface Treatment	SY	56,000.000	56,000.000
0332	624.0100	Water	MGAL	306.000	306.000
0334	625.0500	Salvaged Topsoil	SY	37,400.000	37,400.000
0336	627.0200	Mulching	SY	28,700.000	28,700.000
0338	628.1504	Silt Fence	LF	1,172.000	1,172.000
0340	628.1520	Silt Fence Maintenance	LF	1,172.000	1,172.000
0342	628.1905	Mobilizations Erosion Control	EACH	4.000	4.000
0344	628.1910	Mobilizations Emergency Erosion Control	EACH	4.000	4.000
0346	628.2004	Erosion Mat Class I Type B	SY	11,452.000	11,452.000
0348	628.2008	Erosion Mat Urban Class I Type B	SY	5,243.000	5,243.000
0350	628.6510	Soil Stabilizer Type B	ACRE	2.000	2.000
0352	628.7005	Inlet Protection Type A	EACH	33.000	33.000
0356	628.7015	Inlet Protection Type C	EACH	23.000	23.000
0358	628.7020	Inlet Protection Type D	EACH	6.000	6.000
0360	628.7504	Temporary Ditch Checks	LF	463.000	463.000
0362	628.7555	Culvert Pipe Checks	EACH	275.000	275.000
0364	628.7560	Tracking Pads	EACH	4.000	4.000
0366	628.7570	Rock Bags	EACH	46.000	46.000
0368	630.0140	Seeding Mixture No. 40	LB	300.000	300.000
0370	630.0200	Seeding Temporary	LB	708.000	708.000
0376	633.5200	Markers Culvert End	EACH	19.000	19.000
0380	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	13.000	13.000
0382	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	13.000	13.000
0384	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	2.000	2.000

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Line	Item	Item Description	Unit	Total	Qty
0388	637.2210	Signs Type II Reflective H	SF	102.260	102.260
0392	637.2230	Signs Type II Reflective F	SF	112.000	112.000
0394	638.2102	Moving Signs Type II	EACH	2.000	2.000
0396	638.2602	Removing Signs Type II	EACH	15.000	15.000
0398	638.3000	Removing Small Sign Supports	EACH	13.000	13.000
0410	643.0100	Traffic Control (project) 034. 1033-02-78	EACH	1.000	1.000
0412	643.0300	Traffic Control Drums	DAY	7,130.000	7,130.000
0414	643.0420	Traffic Control Barricades Type III	DAY	920.000	920.000
0416	643.0705	Traffic Control Warning Lights Type A	DAY	1,840.000	1,840.000
0422	643.0900	Traffic Control Signs	DAY	1,380.000	1,380.000
0426	643.1000	Traffic Control Signs Fixed Message	SF	91.500	91.500
0428	643.1050	Traffic Control Signs PCMS	DAY	24.000	24.000
0436	645.0111	Geotextile Type DF Schedule A	SY	1,794.000	1,794.000
0440	645.0130	Geotextile Type R	SY	129.000	129.000
0442	645.0135	Geotextile Type SR	SY	1,527.000	1,527.000
0444	645.0220	Geogrid Type SR	SY	33,592.000	33,592.000
0446	646.0106	Pavement Marking Epoxy 4-Inch	LF	9,562.000	9,562.000
0448	646.0805.S	Pavement Marking Outfall	EACH	3.000	3.000
0450	646.2304.S	Pavement Marking Grooved Wet Reflective Epoxy 4-Inch	LF	12,209.000	12,209.000
0452	646.2308.S	Pavement Marking Grooved Wet Reflective Epoxy 8-Inch	LF	1,000.000	1,000.000
0454	647.0166	Pavement Marking Arrows Epoxy Type 2	EACH	2.000	2.000
0458	647.0356	Pavement Marking Words Epoxy	EACH	2.000	2.000
0462	647.0566	Pavement Marking Stop Line Epoxy 18-Inch	LF	78.000	78.000
0468	648.0100	Locating No-Passing Zones	MI	1.140	1.140
0470	690.0150	Sawing Asphalt	LF	296.000	296.000
0474	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	280.000	280.000
0476	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	300.000	300.000
0478	SPV.0030	Special 001. Fertilizer Type B, Special	CWT	24.000	24.000
0480	SPV.0035	Special 005. Backfill Slurry	CY	216.000	216.000
0486	SPV.0060	Special 088. Field Facilities Office Space	EACH	0.200	0.200
0504	SPV.0075	Special 035. Pavement Cleanup Project 1033-02-78	HRS	20.000	20.000
0506	SPV.0085	Special 002. Seeding Mixture No. 30, Special	LB	254.000	254.000
0512	SPV.0090	Special 084. Heavy Duty Silt Fence	LF	1,937.000	1,937.000
0514	SPV.0090	Special 085. Temporary Ditch Check Rock Bags Single Layer	LF	90.000	90.000
0516	SPV.0090	Special 086. Temporary Ditch Check Rock Bags Double Layer	LF	90.000	90.000
0528	SPV.0105	Special 034. Survey Project 1033-02-78	LS	1.000	1.000
0536	SPV.0195	Special 006. Select Subbase	TON	12,969.000	12,969.000

					1033-02-78
0538	SPV.0200	Special 002. Manholes 4-FT Diameter Special	VF	48.000	48.000

CPM PROGRESS SCHEDULE

CATEGORY	STAGE		108.4400 EACH
1000	ALL	PROJECT 1033-02-78	0.2
	TOTAL (I.D. 1033-02-78)		0.2

CLEARING AND GRUBBING

CATEGORY	LOCATION	STA	TO	STA	201.0105 CLEARING STA.	201.0205 GRUBBING STA.
1000	WEST FRONTAGE ROAD					
		4832+00	-	4833+00	1	1
		4838+00	-	4839+00	1	1
		TOTALS (I.D. 1033-02-78)			2	2

REMOVING CURB AND GUTTER

CATEGORY	ROADWAY	STA	TO	STA	LOCATION	204.0150 REMOVING CURB & GUTTER LF
1000	WEST FRONTAGE ROAD					
		4805+38	-	4805+77	LT	52
		4806+10	-	4806+48	LT	52
		4812+48	-	4812+87	LT	62
		4813+17	-	4813+58	LT	63
		4827+34	-	4827+77	LT	79
		4827+99	-	4828+46	LT	81
		4831+52	-	4831+95	LT	80
		4832+16	-	4832+63	LT	80
		4838+34			LT	70
		4838+61			LT	72
	GRANDVIEW PARKWAY					
		93+00	-	93+72	RT	76
		93+00	-	93+70	LT	78
		TOTAL (I.D. 1033-02-78)				845

REMOVING SMALL PIPE CULVERTS

CATEGORY	ROADWAY	STATION	OFFSET	LENGTH	SIZE / DESCRIPTION	203.0100 REMOVING SMALL PIPE CULVERTS EACH	COMMENTS
1000	WEST FRONTAGE ROAD						
		4793+40	–	58'	36" CPCM	1	LINED W/ PVC AND GROUTED
		4801+10	–	60'	30" CPCM	1	LINED W/ PVC AND GROUTED
		4804+00	14' LT	34'	12" CPCS	1	
		4812+98	34' LT	88'	24" CPCM	1	
		4832+03	27' LT	70'	12" CPCM	1	
		4834+88	–	68'	36" CPCM	2	
		4838+50	28' LT	66'	18" CPCM	1	
		4842+41	–	60'	24" CPCM	1	
	56TH ROAD						
		47+94	25' LT	42'	12" CPCS	1	
	LEETSBIR ROAD						
		77+60	–	84'	18" CPCM	1	
		TOTAL (I.D. 1033-02-78)				11	

REMOVING DELINEATORS AND MARKERS

CATEGORY	ROADWAY	STA	OFFSET	204.0180 REMOVING DELINEATORS AND MARKERS EACH	COMMENTS
1000	WEST FRONTAGE ROAD				
		4787+85	46' LT	1	WOODEN MARKER POST
		4795+71	33' LT	1	WOODEN MARKER POST
		4795+96	13' LT	1	WOODEN MARKER POST
		TOTAL (I.D. 1033-02-78)		3	

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REMOVING DRAIN TILE

CATEGORY	ROADWAY	STA.	LOCATION	204.9090.S.002 REMOVING DRAIN TILE LF
1000	WEST FRONTAGE ROAD			
		4825+58	LT & RT	110
		4836+41	LT & RT	85
		TOTAL (I.D. 1033-02-78)		195

REMOVING FENCE

CATEGORY	ROADWAY	STA	TO	STA	LOCATION	204.0170 REMOVING FENCE LF
1000	WEST FRONTAGE ROAD					
		4785+00	-	4845+08	RT	6,010
		TOTAL (I.D. 1033-02-78)				6,010

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REMOVING INLETS AND MANHOLES

CATEGORY	ROADWAY	STATION	OFFSET	LOCATION	204.0210 REMOVING MANHOLES EACH	204.0220 REMOVING INLETS EACH
1000	WEST FRONTAGE ROAD					
		4793+51	35'	LT	1	--
		4805+80	39'	RT	–	1
		4806+40	39'	RT	–	1
		4822+64	34	RT	–	1
		4822+70	34	RT	–	1
		4834+52	41'	RT	–	1
		4835+32	42'	RT	–	1
	GRANDVIEW PARKWAY					
		93+48	18'	RT	–	1
		93+51	17'	LT	–	1
		TOTALS	(I.D. 1033-02-78)		1	8

SEALING PIPES

CATEGORY	ROADWAY	STATION	OFFSET	*204.0280 SEALING PIPES EACH
1000	WEST FRONTAGE ROAD			
		4834+75	42' RT	1
		4835+15	53' RT	1
	TOTALS (I.D. 1033-02-78)			2

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

REMOVING STORM SEWER

CATEGORY	ROADWAY	STATION	LOCATION	204.0245.002 REMOVING STORM SEWER 6-INCH LF	204.0245.004 REMOVING STORM SEWER 12-INCH LF	204.0245.006 REMOVING STORM SEWER 15-INCH LF	204.0245.008 REMOVING STORM SEWER 18-INCH LF	204.0245.010 REMOVING STORM SEWER 24-INCH LF	204.0245.014 REMOVING STORM SEWER 30-INCH LF
1000	WEST FRONTAGE ROAD								
		4793+50	LT	–	22	--	--	--	--
		4793+50	LT & RT	–	95	--	--	--	--
		4793+50	LT	25	–	--	--	--	--
		4793+50	LT	25	–	--	--	--	--
		4805+95	LT	–	–	--	--	--	--
		4806+10	LT	–	–	--	--	65	--
		4806+11	RT	–	–	--	52	--	--
		4822+63	LT & RT	–	–	--	--	--	71
		4822+68	LT & RT	–	–	--	--	--	71
		4834+52	RT	–	–	--	22	--	--
		4835+32	RT	–	–	--	20	--	--
	GRANDVIEW PARKWAY								
		93+50	LT & RT	–	36	--	--	--	--
		93+55	RT	–	–	22	--	--	--
		93+60	LT & RT	–	–	--	103	--	30
		TOTALS (I.D. 1033-02-78)		50	153	22	197	65	172

PIPE UNDERDRAIN ITEMS

CATEGORY	ROADWAY	STATIO	-	STATION	OFFSET	612.0106 PIPE UNDERDRAIN 6-INCH LF	612.0206 PIPE UNDERDRAIN UNPERFORATED LF	612.0806 APRON ENWALLS FOR UNDERDRAIN REINFORCED CONCRETE 6-INCH EACH	645.0111 GEOTEXTILE TYPE DF SCHEDULE A SY	646.0805.S PAVEMENT MARKING OUTFALL EACH
1000	WEST FRONTAGE ROAD									
		4787+69	-	4788+19	LT	50	--	–	28	–
		4789+00	-	4790+75	LT	175	--	–	97	–
		4790+75			LT	--	10	1	--	1
		4795+85	-	4797+00	LT	115	--	–	64	–
		4818+50	-	4820+50	RT	200	--	–	111	–
		4820+50			LT/RT	--	60	1	--	1
		4821+00	-	4822+67	RT	167	--	–	93	–
		4822+67	-	4825+00	RT	233	--	–	129	–
		4821+77	-	4822+66	LT	89	--	–	49	–
		4823+30	-	4823+90	LT	60	--	–	33	–
		4825+50	-	4828+25	RT	275	--	–	153	–
		4829+25	-	4833+00	RT	375	--	–	208	–
		4833+50	-	4835+50	RT	200	--	–	111	–
		4835+50	-	4837+00	RT	150	--	–	83	–
		4837+50	-	4840+00	RT	250	--	–	139	–
		4840+50	-	4843+50	RT	300	--	–	167	–
	56TH ROAD									
		47+50	-	49+45	RT	195	--	–	108	–
		47+50	-	49+45	LT	195	--	–	108	–
	LEETSBIR ROAD									
		76+50	-	77+50	LT	100	--	–	56	–
		76+50			LT/RT	--	50	1	--	1
	GRANDVIEW PARKWAY									
		93+00	-	93+54	LT	54	--	–	30	–
		93+00	-	93+47	RT	47	--	–	26	–
		TOTALS (I.D. 1033-02-78)				3,230	120	3	1,794	3

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EARTHWORK

CATEGORY	ROADWAY	FROM / TO STATION	205.0100 EXCAVATION COMMON CY		SALVAGED / UNUSABLE PAVEMENT MATERIAL (4)	AVAILABLE MATERIAL (5)	REDUCED EBS IN FILL (6)	EXPANDED EBS BACKFILL (7)	208.1100 SELECT BORROW CY	UNEXPANDED FILL (8)	EXPANDED FILL (9)	MASS ORDINATE +/- (10)	WASTE (11)	ESTIMATED DISPOSAL AREA OUTSIDE 1:1 SLOPE (12)
			CUT	*EBS EXCAVATION			Factor	Factor			FACTOR			
1000			(2)	(3)			0.80	1.30			1.20			
	WEST FRONTAGE ROAD	4785+00 to 4845+08	22,415	1,121	2,941	20,595	897	1,457	1,457	7,015	8,418	12,177	16,239	1,910
	56TH ROAD	47+00 to 49+72	1,485	74	86	1,474	59	97	97	5	6	1,467	1,627	0
	LEETSBIR ROAD	76+35 to 77+60	251	13	29	235	10	16	16	236	283	-48	29	0
	GRANDVIEW PARKWAY	93+00 to 93+72	373	19	30	361	15	24	24	14	17	344	393	0
	EBS AT DITCH FILLS	4785+00 to 4845+08	0	7,297	0	7,297	5,838	9,492	9,492	0	0	7,297	14,594	0
	EXISTING PAVEMENT EBS	4790+00 to 4817+50	0	1,694	1,694	0	0	2,202	2,202	0	0	0	1,694	0
	EXISTING PAVEMENT EBS	4821+75 to 4824+25	0	56	56	0	0	73	73	0	0	0	56	0
	GRAND TOTALS		24,525	8,523	4,837	29,961	6,819	13,361	13,361	7,270	8,724	21,237	34,633	1,910
		TOTAL EXCAVATION COMMON		33,048										

1) COMMON EXCAVATION IS THE SUM OF THE CUT AND EBS EXCAVATION COLUMNS. ITEM NUMBER 205.0100
2) SALVAGED / UNUSABLE PAVEMENT MATERIAL IS INCLUDED IN CUT UNLESS EXISTING PAVEMENT IS BELOW SUBGRADE.
3) UNDISTRIBUTED EBS TO BE BACKFILLED WITH SELECT BORROW. EBS TO BE WASTED OUTSIDE THE 1:1 SLOPES (SEE NOTE 6) OR HAULED OFF-SITE.
4) EXISTING PAVEMENT VOLUME (CY), NOT AVAILABLE FOR FILL. ALL SALVAGED / UNUSABLE PAVEMENT MATERIAL EITHER BELOW OR ABOVE SUBGRADE IS SHOWN WITHIN THE ROADWAY ROW.
5) AVAILABLE MATERIAL = CUT + EBS EXCAVATION - SALVAGED/UNUSABLE PAVEMENT MATERIAL.
6) REDUCED EBS IN FILL - FOR INFORMATION ONLY. EXCAVATED EBS MATERIALS ARE UNUSABLE IN FILLS OUTSIDE THE 1:1 SLOPE BETWEEN IH 94 AND THE FRONTAGE ROAD. EBS MATERIAL CAN BE USED OUTSIDE THE 1:1 SLOPE ON THE NON-IH 94 SIDE OF THE FRONTAGE ROAD.
7) EXPANDED EBS BACKFILL - THIS IS TO BE FILLED WITH SELECT BORROW MATERIAL. EBS BACKFILL FACTOR = 1.3 ITEM NUMBER 208.1100
8) UNEXPANDED FILL - FILL FROM END AREA EARTHWORK VOLUMES
9) EXPANDED FILL FACTOR = 1.20 (EXPANDED FILL DOES NOT CONTAIN EBS)
10) MASS ORDINATE = AVAILABLE MATERIAL - EXPANDED FILL. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE STAGE. MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE STAGE.
11) WASTE = EBS + SALVAGED/UNUSABLE PAVEMENT MATERIAL + (MASS ORDINATE IF POSITIVE WITHIN DIVISION)
12) THE ESTIMATED AREA OUTSIDE THE 1:1 FILL SLOPES = LOCATION WHERE THE EBS AND CUT MATERIALS CAN BE WASTED (USED AT CONTRACTORS DISCRETION). AREA IS PART OF THE FILL NUMBERS.
13) EXISTING PAVEMENT EBS IS NOT INCLUDED IN THE TOTAL COMMON EXCAVATION; REMOVAL IS COVERED BY ITEM NUMBER 204.0100 "REMOVING PAVEMENT" AND IS SOLELY SHOWN TO QUANTIFY THE SELECT BORROW USED TO FILL TO THE SUBGRADE

FINISHING ROADWAY

CATEGORY	STAGE		213.0100.034 EACH
1000	ALL	PROJECT 1033-02-78	1
		TOTAL (I.D. 1033-02-78)	1

BACKFILL GRANULAR

CAT	ROADWAY	STATION	TO	STATION	*209.2100 BACKFILL GRANULAR GRADE 2 CY
1000					
	WEST FRONTAGE ROAD				
		4785+00	-	4845+08	255
	TOTALS (I.D. 1033-02-78)				255

*GRANULAR BACKFILL USED TO BACKFILL HOLES RESULTING FROM STRUCTURE REMOVAL. SEE GENERAL NOTES FOR ADDITIONAL INFORMATION.

DRIVEWAY ITEMS

CATEGORY	ROADWAY	STATION	LOC.	*305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON
1000	WEST FRONTAGE ROAD				
		4803+98	LT	29	3
		4805+93	LT	41	30
		4813+02	LT	49	37
		4816+40	LT	30	3
		4827+03	LT	43	32
		4827+88	LT	42	31
		4832+06	LT	41	30
		4838+48	LT	60	47
	56TH ROAD				
		47+93	LT	20	2
		TOTALS	(I.D. 1033-02-78)	355	215

* ADDITIONAL QUANTITIES LISTED ELSEWHERE, SEE "BASE AGGREGATE ITEMS"

BASE AGGREGATE ITEMS

CATEGORY	ROADWAY	STA	TO	STA	*305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	311.0110 BREAKER RUN TON	645.0135 GEOTEXTILE TYPE SR SY	**645.0220 GEOGRID TYPE SR SY	**SPV.0195.006 SELECT SUBBASE TON
1000	WEST FRONTAGE ROAD	4785+00	-	4845+08	2,110	16,600	--	--	28,253	11,930
	56TH ROAD	47+00	-	49+18	20	630	--	--	1,273	540
	LEETSBIR ROAD	76+27	-	77+11	10	180	--	--	578	250
	GRANDVIEW PARKWAY	93+00	-	93+22	--	70	--	--	433	190
	RELIEF TRENCHES	4785+00	-	4845+08	--	--	--	--	--	59
	TEMPORARY ACCESS				--	110	--	--	--	–
	UNDISTRIBUTED				220	1,730	2,183	1,527	3,054	–
	TOTALS	(I.D. 1033-02-78)			2,360	19,320	2,183	1,527	33,592	12,969

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

**QUANTITY BASED ON PROJECT LENGTH. USAGE TO BE AUTHORIZED BY ENGINEER OR SOILS ENGINEER. SEE GENERAL NOTES FOR ADDITIONAL INFORATION.

ASPHALTIC FLUMES

CATEGORY	ROADWAY	STA.	LOCATION	465.0315 ASPHALTIC FLUMES SY
1000	WEST FRONTAGE ROAD			
		4790+83	LT	19
		4805+25	LT	28
		4828+50	LT	15
		4832+65	LT	17
		4837+80	LT	20
	LEETSBIR ROAD			
		76+41	LT	14
		77+16	RT	9
		TOTAL	(I.D. 1033-02-78)	122

DRIVEWAY CULVERT ITEMS

CATEGORY	ROADWAY	STATION	OFFSET	ELEVATION	SLOPE	520.3312 CULVERT PIPE CLASS III-A 12-INCH LF	520.3318 CULVERT PIPE CLASS III-A 18-INCH LF	520.4130 CULVERT PIPE CLASS IV 30-INCH LF	520.1012 APRON ENDWALLS FOR CULVERT PIPE 12-INCH EACH	521.1618 APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS STEEL 10 TO 1 18-INCH EACH	521.1630 APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS STEEL 10 TO 1 30-INCH EACH	THICKNESS (INCHES) STEEL
1000	WEST FRONTAGE ROAD											
		4838+48	35.0' LT	765.01	0.63%	--	–	83	–	--	2	0.079
		4832+07	38.3' LT	764.64	0.51%	--	80	–	–	2	–	0.064
		4802+81	35.0' LT	761.88	0.57%	40	–	–	2	--	–	0.064
	56TH ROAD											
		47+95	32.0' LT	772.23	2.04%	46	–	–	2	--	–	0.064
	TOTALS (I.D. 1033-02-78)					86	80	83	4	2	2	

NOTE
1) PIPE OFFSETS AND ELEVATIONS ARE TO THE CENTERLINE AND INVERT OF PIPE.
2) PIPE LENGTHS ARE FROM END OF PIPE TO END OF PIPE AND DOES NOT INCLUDE LENGTH OF APRON ENDWALL

ASPHALTIC PAVEMENT ITEMS

CATEGORY	ROADWAY	STA	TO	STA	440.4410 INCENTIVE IRI RIDE DOL	455.0605 TACK COAT GAL	460.2000 INCENTIVE DENSITY HMA PAVEMENT DOL	460.5223 HMA PAVEMENT 3 LT 58-28 S TON	460.5224 HMA PAVEMENT 4 LT 58-28 S TON	495.1000.S COLD PATCH TON
1000	WEST FRONTAGE ROAD	4785+00	-	4845+08	2,276	1,350	5,470	5,045	3,495	--
	56TH ROAD	47+00	-	49+72	103	40	170	150	105	--
	LEETSBIR ROAD	76+50	-	77+60	42	11	50	40	30	--
	GRANDVIEW PARKWAY	93+00	-	93+72	27	5	20	15	10	--
	UNDISTRIBUTED				--	--	--	–	–	445
	TOTALS (I.D. 1033-02-78)				2,448	1,406	5,710	5,250	3,640	445

CONCRETE CURB AND GUTTER ITEMS

CATEGORY	ROADWAY	STA	TO	STA	LOC	601.0553 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D LF
1000	WEST FRONTAGE ROAD					
		4786+87	-	4787+26	LT	71
		4787+57	-	4790+74	LT	345
		4794+92		4795+31	LT	64
		4795+61	-	4796+21	LT	94
		4805+37	-	4805+71	LT	40
		4806+15	-	4806+50	LT	40
		4812+45	-	4812+79	LT	40
		4813+26	-	4813+61	LT	40
		4820+00	-	4843+00	RT	2,307
		4822+40	-	4822+80	LT	63
		4823+12	-	4823+73	LT	94
		4827+14	-	4827+79	LT	122
		4828+00	-	4828+41	LT	68
		4831+54	-	4831+97	LT	68
		4832+19	-	4832+57	LT	68
		4838+22	-	4838+38	LT	100
		4838+57	-	4838+72	LT	100
	56TH ROAD					
		48+68	-	49+18	LT	50
		48+70	-	49+20	RT	50
	LEETSBIR ROAD					
		76+50	-	77+02	LT	52
	GRANDVIEW PKWY					
		93+00	-	93+14	LT	13
		93+00	-	93+32	RT	41
	TOTALS			(I.D. 1033-02-78)		3,930

NOTE: WEST FRONTAGE ROAD CURB AND GUTTER TOTALS INCLUDE TO END RADIUS ON SIDE ROADS

CROSS CULVERT ITEMS

CAT	ROADWAY	INLET END STATION	INLET END OFFSET	INLET END ELEV	DISCHARGE END STATION	DISCHARGE END OFFSET	DISCHARGE END ELEV	STATION	SLOPE	523.0429 CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS IV 29 x 45-INCH LF	*523.0529 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 29 x 45-INCH EACH	*611.9800.S PIPE GRATES EACH	* 633.5200 MARKERS CULVERT END EACH
1000													
	WEST FRONTAGE ROAD												
		4801+11	31.8' LT	761.05	4801+10	30.0' RT	759.98	4801+12	1.73%	62	2	1	2
	TOTALS (I.D. 1033-02-78)									62	2	1	2

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

NOTES

1) STATION OFFSETS SHOWN ARE TO THE CENTER OF INLET STRUCTURES OR END OF PIPE (NOT THE APRON END OF ENDWALLS).

2) PIPE LENGTH IS FROM END OF PIPE TO END OF PIPE AND DOES NOT INCLUDE LENGTH OF APRON ENDWALL.

TRACKING PADS

CATEGORY	ROADWAY	LOCATION	628.7560 TRACKING PADS EACH
1000	WEST FRONTAGE ROAD	NORTH PROJECT LIMITS	2
		SOUTH PROJECT LIMITS	2
	TOTALS (I.D. 1033-02-78)		4

BACKFILL SLURRY

CATEGORY	ROADWAY	STATION	SPV.0035.005 BACKFILL SLURRY CY	REMARKS
1000				
	WEST FRONTAGE ROAD			
		4834+85 LT	216	USE BETWEEN TRIPLE 34" X 53" SSPRCHE; LIMITS ARE BETWEEN THE 1:1 SLOPES FROM SUBGRADE AT 20' LT & 20' RT TO EXISTING GROUND.
	TOTALS (I.D. 1033-02-78)		216	

CONCRETE MASONRY ENDWALLS

CATEGORY	ROADWAY	STATION	504.0900 CONCRETE MASONRY ENDWALLS CY	REMARKS
1000				
	WEST FRONTAGE ROAD			
		4834+87 LT	4.6	TRIPLE 34" X 53" SSPRCHE
	TOTALS (I.D. 1033-02-78)		4.6	

3

EROSION CONTROL ITEMS

CAT.	ROADWAY	606.0100 RIPRAP LIGHT CY	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH	628.2004 EROSION MAT CLASS I TYPE B SY	628.2008 EROSION MAT URBAN CLASS I TYPE B SY	628.7005 INLET PROTECTION TYPE A EACH	628.7015 INLET PROTECTION TYPE C EACH	628.7020 INLET PROTECTION TYPE D EACH	628.7504 TEMPORARY DITCH CHECKS LF	628.7555 CULVERT PIPE CHECKS EACH	628.7570 ROCK BAGS EACH	645.0130 GEOTEXTILE TYPE R SY	SPV.0090.084 HEAVY DUTY SILT FENCE LF	SPV.0090.085 TEMPORARY DITCH CHECK ROCK BAGS SINGLE LAYER LF	SPV.0090.086 TEMPORARY DITCH CHECK ROCK BAGS DOUBLE LAYER LF
1000	WEST FRONTAGE ROAD	36	936	936	–	–	9,156	4,189	26	18	–	370	220	5	103	1,549	--	--
	UNDISTRIBUTED	9	236	236	4	4	2,296	1,054	7	5	6	93	55	41	26	388	90	90
	TOTALS (I.D. 1033-02-78)	45	1,172	1,172	4	4	11,452	5,243	33	23	6	463	275	46	129	1,937	90	90

3

DRAIN TILE

CATEGORY	LOCATION	SPV.0200.002 MANHOLES 4-FT DIAMETER SPECIAL VF	*611.0535 MANHOLE COVERS TYPE J-SPECIAL EACH	608.0512 STORM SEWER PIPE REINFORCED CONCRETE CLASS V 12-INCH LF	612.0700 DRAIN TILE EXPLORATION LF
	UNDISTRIBUTED	48	8	400	600
	TOTAL (I.D. 1033-02-78)	48	8	400	600

NOTE

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE.

3

SALVAGED RAIL ITEMS

CATEGORY	ROADWAY	STA	TO	STA	OFFSET	614.0920 SALVAGED RAIL LF	614.0925 SALVAGED GUARDRAIL END TREATMENTS EACH
1000	WEST FRONTAGE ROAD						
		4787+09	-	4788+49	RT	145	--
		4819+14	-	4830+75	RT	1162	2
		TOTALS (I.D. 1033-02-78)				1307	2

MAINTENANCE AND REPAIR OF HAUL ROADS

CATEGORY	STAGE		618.0100.011 MAINTENANCE AND REPAIR OF HAUL ROADS 1033-02-78 EACH
1000	ALL	WEST FRONTAGE ROAD	1
		TOTAL (I.D. 1033-02-78)	1

3

GUARDRAIL ITEMS

CATEGORY	ROADWAY	STA	TO	STA	LOCATION	614.0230 STEEL THRIE BEAM LF	614.0370 STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL EACH	614.0396 GUARDRAIL MOW STRIP ASPHALT SY	614.2300 MGS GUARDRAIL 3 LF	614.2340 MGS GUARDRAIL 3 L LF	614.2610 MGS GUARDRAIL TERMINAL EAT EACH
1000	WEST FRONTAGE ROAD										
		4786+31	-	4788+81	RT	150	2	130	--	--	--
		4833+78	-	4836+21	LT	--	--	128	25	112.5	2
		TOTALS		(I.D. 1033-02-78)		150	2	258	25	112.5	2

MOBILIZATION

CATEGORY	STAGE	ROADWAY	619.1000 MOBILIZATION EACH
1000	ALL	WEST FRONTAGE ROAD	0.2
		TOTAL (I.D. 1033-02-78)	0.2

3

DUST CONTROL SURFACE TREATMENT

CATEGORY	ROADWAY	623.0200 SY
1000	WEST FRONTAGE ROAD	53,850
	56TH ROAD	1,570
	LEETSBIR ROAD	410
	GRANDVIEW PARKWAY	170
	TOTAL (I.D. 1033-02-78)	56,000

WATER ITEMS

CATEGORY	ROADWAY	624.0100 WATER MGAL
1000	WEST FRONTAGE ROAD	290
	56TH ROAD	11
	LEETSBIR ROAD	3
	GRANDVIEW PARKWAY	2
	TOTALS (I.D. 1033-02-78)	306

3

RESTORATION ITEMS

CATEGORY	ROADWAY	625.0500 SALVAGED TOPSOIL SY	627.0200 MULCHING SY	628.6510 SOIL STABILIZER TYPE B ACRE	SPV.0030.001 FERTILIZER TYPE B SPECIAL CWT	SPV.0085.002 SEEDING MIX NO. 30 SPECIAL LB	630.0140 SEEDING MIX NO. 40 LB	630.0200 SEEDING TEMPORARY LB
1000	WEST FRONTAGE ROAD	33,930	26,000	--	21	200	274	611
	UNDISTRIBUTED	3,470	2,700	2.0	3	54	26	98
	TOTALS (I.D. 1033-02-78)	37,400	28,700	2.0	24	254	300	708

PERMANENT SIGNING SUMMARY

CATEGORY	SIGN NO.	CODE NO.	SIGN MESSAGE	COMMENTS	SIZE INCH	x	INCH	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	STATION	LOCATION	SAME POST AS SIGN NO.	634.0614 POSTS WOOD 4x6-INCH x 14-FT EACH	634.0616 POSTS WOOD 4x6-INCH x 16-FT EACH	634.0618 POSTS WOOD 4x6-INCH x 18-FT EACH	638.2102 MOVING SIGNS TYPE II EACH
1000	1M01	R12-53 (2)	WEIGHT LIMIT CLASS B	--	24	x	30	–	--	49+55	LT	--	–	–	--	1
	1P01	R2-1 (2)	SPEED LIMIT	55 MPH	24	x	30	5.00	--	4785+00	LT	--	–	1	--	--
	1P02	R1-1 (3)	STOP	--	36	x	36	7.46	--	49+50	RT	--	1	–	--	--
	1P03	W1-7 (2)	NIGHT ARROW (DOUBLE)	--	48	x	24	–	8.00	4787+63	RT	--	1	–	--	--
	1P04	R1-1 (3)	STOP	--	36	x	36	7.46	--	49+50	LT	--	1	–	--	--
	1P05	W3-1 (2)	STOP AHEAD	--	36	x	36	–	9.00	45+50	RT	--	–	1	--	--
	1P06	W3-1 (2)	STOP AHEAD	--	36	x	36	–	9.00	45+50	LT	--	–	1	--	--
	1P07	R3-8D (2)	LANE ASSIGNMENT ARROWS	--	36	x	30	7.50	--	4792+20	LT	--	–	1	--	--
	2M01	W14-1 (2)	DEAD END	--	30	x	30	–	--	77+35	LT	--	–	–	--	1
	2P01	W14-3 (2)	NO PASSING ZONE	--	48	x	36	–	6.00	4795+00	RT	--	–	1	--	--
	2P02	R1-1 (3)	STOP	--	36	x	36	7.46	--	77+50	RT	--	1	–	--	--
	2P03	W3-1 (2)	STOP AHEAD	--	36	x	36	–	9.00	75+00	RT	--	–	1	--	--
	2P04	R1-1 (3)	STOP	--	36	x	36	7.46	--	77+50	LT	--	1	–	--	--
	2P05	W1-7 (2)	NIGHT ARROW (DOUBLE)	--	48	x	24	–	8.00	4795+50	RT	--	1	–	--	--
	2P06	R2-1 (2)	SPEED LIMIT	55 MPH	24	x	30	5.00	--	4798+00	RT	--	–	1	--	--
	2P07	W3-1 (2)	STOP AHEAD	--	36	x	36	–	9.00	75+00	LT	--	–	1	--	--
	3P01	W14-3 (2)	NO PASSING ZONE	--	48	x	36	–	6.00	4814+50	LT	--	–	1	--	--
	4P01	R2-1 (2)	SPEED LIMIT	55 MPH	24	x	30	5.00	--	4821+00	LT	--	–	1	--	--
	4P02	R1-1 (3)	STOP	--	36	x	36	7.46	--	93+58	RT	--	1	–	--	--
	4P03	W3-1 (2)	STOP AHEAD	--	36	x	36	–	9.00	91+08	RT	--	1	–	--	--
	4P04	R2-1 (2)	SPEED LIMIT	55 MPH	24	x	30	5.00	--	4825+00	RT	--	1	–	--	--
	4P05	W1-7 (2)	NIGHT ARROW (DOUBLE)	--	48	x	24	–	8.00	4823+00	RT	--	1	–	--	--
	4P06	R1-1 (3)	STOP	--	36	x	36	7.46	--	93+58	LT	--	1	–	--	--
	4P07	W3-1 (2)	STOP AHEAD	--	36	x	36	–	9.00	91+08	LT	--	1	–	--	--
	4P08	W3-5 (2)	SPEED LIMIT AHEAD SYMBOL	35 MPH	36	x	36	–	9.00	4834+15	RT	--	–	1	--	--
	4P09	R2-1 (5)	SPEED LIMIT	70 MPH	48	x	60	20.00	--	4833+00	RT	--	–	–	2	--
	5P01	R2-1 (2)	SPEED LIMIT	35 MPH	24	x	30	5.00	--	4839+65	RT	--	1	–	--	--
	5P02	W1-1L (2)	LEFT TURN	--	36	x	36	–	9.00	4843+60	RT	--	–	1	--	--
	5P03	W13-1 (3)	ADVISORY SPEED	15 MPH	24	x	24	–	4.00	4843+60	RT	5P03	–	–	--	--
	5P04	R2-1 (2)	SPEED LIMIT	55 MPH	24	x	30	5.00	--	4839+65	LT	--	–	1	--	--
TOTALS	(I.D. 1033-02-78)							102.26	112.00				13	13	2	2

REMOVING SIGNS

CATEGORY	ROADWAY	SIGN NO.	STATION	LOCATION	SAME POST AS SIGN NO.	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	SIGN MESSAGE
1000	WEST FRONTAGE ROAD							
		1R01	49+50	RT	--	1	1	STOP
		1R03	4787+75	RT	--	1	1	NIGHT ARROW (DOUBLE)
		1R04	43+00	RT	--	1	1	STOP AHEAD
		2R01	4795+00	RT	--	1	1	NO PASSING ZONE
		2R02	4795+15	LT	--	1	1	STOP
		2R03	4795+49	RT	--	1	1	NIGHT ARROW (DOUBLE)
		4R01	4822+68	LT	--	1	1	STOP
		4R02	4833+00	RT	--	1	1	SPEED LIMIT 70
		5R01	4837+00	RT	--	1	1	REDUCED SPEED AHEAD
		5R02	4837+00	RT	5R01	1	--	35 M.P.H.
		5R03	4837+33	LT	--	1	1	NO PASSING ZONE
		5R04	4839+73	RT	--	1	1	SPEED LIMIT 35
		5R05	4839+73	LT	--	1	1	SPEED LIMIT 55
		5R06	4843+61	RT	--	1	1	LEFT TURN
		5R07	4843+61	RT	5R06	1	--	15 M.P.H.
		TOTALS (I.D. 1033-02-78)				15	13	

3

FENCE SAFETY

CATEGORY	ROADWAY	616.0700.S FENCE SAFETY LF
1000	UNDISTRIBUTED	1,500
	TOTAL (I.D. 1033-02-78)	1,500

LOCATING NO-PASSING ZONES

CATEGORY	ROADWAY	START		END	648.0100 MI
1000	WEST FRONTAGE ROAD	4785+00	-	4845+08	1.14
	TOTAL (I.D. 1033-02-78)				1.14

3

FENCING

CATEGORY	ROADWAY	STA	TO	STA	LOCATION	616.0100 FENCE WOVEN WIRE 4-FT LF
1000	WEST FRONTAGE ROAD					
		4785+00	-	4845+07	RT	6,015
	TOTAL (I.D. 1033-02-78)					6,015

TRAFFIC CONTROL (PROJECT)

CATEGORY	ROADWAY	643.0100.034 TRAFFIC CONTROL 1033-02-78 EACH
1000	WEST FRONTAGE ROAD	1
	TOTALS (I.D. 1033-02-78)	1

SAW CUTTING ITEMS

CATEGORY	ROADWAY	STA	LOCATION	690.0150 SAWING ASPHALT LF	DESCRIPTION
1000	WEST FRONTAGE ROAD				
		4805+93	LT	34	DRIVEWAY
		4813+02	LT	32	DRIVEWAY
		4827+02	LT	30	DRIVEWAY
		4827+88	LT	25	DRIVEWAY
		4832+06	LT	25	DRIVEWAY
		4838+47	LT	30	DRIVEWAY
		4845+08	LT & RT	34	ROADWAY MATCH
	56TH ROAD				
		46+00	LT & RT	24	BEGIN CONSTRUCTION
	LEETSBIR ROAD				
		76+50	LT & RT	24	BEGIN CONSTRUCTION
	GRANDVIEW PKWY				
		93+00	LT & RT	38	BEGIN CONSTRUCTION
	TOTALS	(I.D. 1033-02-78)		296	

FIELD FACILITIES OFFICE SPACE

CATEGORY	ROADWAY	SPV.0060.088 EACH
1000	WEST FRONTAGE ROAD	0.2
	TOTAL (I.D. 1033-02-78)	0.2

PAVEMENT MARKING

CATEGORY	ROADWAY	DESCRIPTION	STATION	646.0106 PAVEMENT MARKING EPOXY 4-INCH YELLOW LF	646.2304.S PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH WHITE LF	646.2308.S PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 8-INCH WHITE LF	647.0166 PAVEMENT MARKING ARROWS EPOXY TYPE 2 EACH	647.0356 PAVEMENT MARKING WORDS EPOXY TYPE 2 EACH	647.0566 PAVEMENT MARKING STOP LINE EPOXY 18-INCH LF
1000	WEST FRONTAGE ROAD								
		RIGHT EDGE OF PAVEMENT	4785+00 - 4845+08	--	6,009	--	--	--	--
		LEFT EDGE OF PAVEMENT	4785+00 - 4786+87	--	189	--	--	--	--
		CENTER LINE (DOUBLE)	4785+00 - 4788+24	648	--	--	--	--	--
		CENTER LINE (DOUBLE)	4788+24 - 4804+50	3,252	--	--	--	--	--
		RIGHT TURN LANE CHANNELIZATION	4788+24 - 4790+24	--	--	200	--	--	--
		RIGHT TURN LANE DOT PATTERN	4790+24 - 4792+24	--	50	--	--	--	--
		BIKE LANE CHANNELIZATION	4788+24 - 4790+24	--	--	200	--	--	--
		56TH ROAD RIGHT TURN LANE	4788+24 - 4790+24	--	--	--	2	2	--
		LEFT EDGE OF PAVEMENT	4790+88 - 4794+92	--	405	--	--	--	--
		BYPASS LANE	4793+97 - 4796+47	--	63	--	--	--	--
		RIGHT TURN LANE CHANNELIZATION	4796+21 - 4798+20	--	--	200	--	--	--
		RIGHT TURN LANE DOT PATTERN	4798+20 - 4800+20	--	50	--	--	--	--
		BIKE LANE CHANNELIZATION	4796+21 - 4798+20	--	--	200	--	--	--
		LEETSBIR ROAD RIGHT TURN LANE	4796+21 - 4798+20	--	--	--	--	--	--
		LEFT EDGE OF PAVEMENT	4796+20 - 4822+40	--	2,621	--	--	--	--
		CENTER LINE (PASSING-LT)	4804+50 - 4808+00	88	--	--	--	--	--
		CENTER LINE (NO PASSING-RT)	4804+50 - 4808+00	350					
		CENTER LINE	4808+00 - 4814+46	162	--	--	--	--	--
		CENTER LINE (PASSING-LT)	4814+46 - 4821+50	176	--	--	--	--	--
		CENTER LINE (NO PASSING-RT)	4814+46 - 4821+50	704					
		BYPASS LANE	4821+47 - 4823+96	--	63	--	--	--	--
		CENTER LINE (DOUBLE)	4821+50 - 4823+72	444	--	--	--	--	--
		RIGHT TURN LANE CHANNELIZATION	4823+72 - 4824+72	--	--	100	--	--	--
		RIGHT TURN LANE DOT PATTERN	4824+72 - 4826+32	--	40	--	--	--	--
		BIKE LANE CHANNELIZATION	4823+72 - 4824+72	--	--	100	--	--	--
		GRANDVIEW PARKWAY RIGHT TURN LANE	4823+72 - 4724+72	--	--	--	--	--	--
		LEFT EDGE OF PAVEMENT	4823+72 - 4845+08	--	2,137	--	--	--	--
		CENTER LINE (DOUBLE)	4823+72 - 4826+92	640	--	--	--	--	--
		CENTER LINE (PASSING-LT)	4826+92 - 4845+08	454	--	--	--	--	--
		CENTER LINE (NO PASSING-RT)	4826+92 - 4845+08	1,816					
	56TH ROAD								
		RIGHT EDGE OF PAVEMENT	47+00 - 49+20	--	219	--	--	--	--
		LEFT EDGE OF PAVEMENT	47+00 - 49+17	--	218	--	--	--	--
		CENTER LINE (DOUBLE)	47+00 - 49+48	496	--	--	--	--	24
	LEETSBIR ROAD								
		RIGHT EDGE OF PAVEMENT	76+50 - 77+20	--	71	--	--	--	--
		LEFT EDGE OF PAVEMENT	76+29 - 77+02	--	74	--	--	--	--
		CENTERLINE (DOUBLE)	76+50 - 77+48	196	--	--	--	--	24
	GRANDVIEW PARKWAY								
		CENTERLINE (DOUBLE)	93+00 - 93+68	136	--	--	--	--	30
		SUBTOTALS		9,562	12,209	1,000	2	2	78
		TOTALS (I.D. 1033-02-78)		9,562	12,209	1,000	2	2	78

TRAFFIC CONTROL ITEMS

CATEGORY	LOCATION	STAGE DURATION DAYS	643.0300 TRAFFIC CONTROL DRUMS NO.	643.0300 DAYS	643.0420 TRAFFIC CONTROL BARRICADES TYPE III NO.	643.0420 DAYS	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A NO.	643.0705 DAYS	643.0900 TRAFFIC CONTROL SIGNS NO.	643.0900 DAYS	643.1000 TRAFFIC CONTROL SIGNS FIXED MESSAGE SF	643.1050 TRAFFIC CONTROL SIGNS PCMS NO.	643.1050 DAYS
1000	WEST FRONTAGE ROAD												
		92	62	5,704	8	736	16	1,472	12	1,104	91.50	–	--
	UNDISTRIBUTED												
		92	16	1,426	2	184	4	368	3	276	–	2	24
	TOTALS (I.D. 1033-02-78)			7,130		920		1,840		1,380	91.50		24

3

SURVEY PROJECT

CATEGORY	ROADWAY	SPV.0105.034 SURVEY PROJECT (1033-02-78) LS
1000	WEST FRONTAGE ROAD	1
	TOTAL (I.D. 1033-02-78)	1

PAVEMENT CLEANUP PROJECT 1033-02-78

CATEGORY	ROADWAY	SPV.0075.035 HRS
1000	WEST FRONTAGE ROAD	20
	TOTAL (I.D. 1033-02-78)	20

3

STORM SEWER ITEMS

CATEGORY	STRUCTURE NUMBER	STATION	OFFSET FT		611.2004 MANHOLES 4-FT DIA EACH	611.2005 MANHOLES 5-FT DIA EACH	611.2007 MANHOLES 7-FT DIA EACH	611.3230 INLETS 2x3-FT EACH	611.3902 INLETS MEDIAN 2 GRATE EACH	611.0420 RECONSTRUCTING MANHOLES EACH	611.0535 MANHOLE COVERS TYPE J SPECIAL EACH	611.0627 INLET COVERS TYPE HM EACH	611.0642 INLET COVERS TYPE MS EACH	RIM OR FLANGE ELEV	STR DEPTH FT	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE
1000	14 WEST FRONTAGE ROAD																			
	400	4843+51	29.65	RT	--	--	--	--	--	--	--	--	--	--	--	400	402	768.43	766.84	0.53%
	401	4840+50	19.00	RT	--	--	--	1	--	--	--	1	--	769.04	1.29	401	402	766.92	766.84	0.53%
	402	4840+50	34.56	RT	1	--	--	--	--	--	1	--	--	769.85	2.18	402	403	766.59	764.95	0.56%
	403	4837+55	37.90	RT	1	--	--	--	--	--	1	--	--	768.46	2.43	403	404	764.95	764.75	1.05%
	404	4837+50	19.00	RT	--	--	--	1	--	--	--	1	--	767.49	1.91	404	405	764.75	764.46	0.57%
	405	4837+50	32.02	LT	--	--	--	--	--	--	--	--	--	--	--	405	OUTFALL	764.46	--	--
	406	4835+65	19.00	RT	1	--	--	--	--	--	--	1	--	766.97	1.57	406	407	764.57	764.49	0.57%
	407	4835+50	19.00	RT	1	--	--	--	--	--	--	1	--	766.97	1.65	407	408	764.49	764.41	0.57%
	408	4835+35	19.00	RT	1	--	--	--	--	--	--	1	--	766.97	1.98	408	410	764.16	763.94	0.51%
	409	4834+95	28.75	LT	--	--	--	--	--	--	--	--	--	--	--	409	410	762.98	762.61	0.51%
	409A	4834+87	28.75	LT	--	--	--	--	--	--	--	--	--	--	--	409A	410A	762.98	762.61	0.51%
	409B	4834+79	28.75	LT	--	--	--	--	--	--	--	--	--	--	--	409B	410B	762.98	762.61	0.51%
	410A	4834+87	41.94	RT	--	--	1	--	--	--	1	--	--	768.11	4.42	410A	EXISTING	762.61	--	--
	410B	4834+75	41.96	RT	--	--	1	--	--	--	1	--	--	768.11	4.42	410B	EXISTING	762.61	--	--
	411	4833+00	19.00	RT	--	--	--	1	--	--	--	1	--	767.71	1.98	411	412	764.90	764.22	1.19%
	412	4833+00	38.45	LT	--	--	--	--	--	--	--	--	--	--	--	412	OUTFALL	764.22	--	--
	413	4827+38	19.00	LT	1	--	--	--	--	--	--	1	--	769.18	2.10	413	414	766.25	765.88	0.39%
	414	4826+46	43.32	LT	--	--	--	--	--	--	--	--	--	--	--	414	OUTFALL	765.88	--	--
	415	4825+50	23.73	RT	--	--	--	1	--	--	--	1	--	768.30	2.97	415	416	764.50	764.12	0.59%
	416	4825+50	40.28	LT	--	--	--	--	--	--	--	--	--	--	--	416	OUTFALL	764.12	--	--
	417	4823+81	52.82	LT	--	--	--	--	--	--	--	--	--	--	--	417	419	762.40	762.11	0.56%
	418A	4822+64	36.85	LT	--	--	--	--	--	1	--	1	--	766.97	4.44	418A	421	761.70	761.48	0.33%
	418B	4822+59	37.11	LT	--	--	--	--	--	--	--	--	--	766.97	5.27	418B	425	761.70	761.45	0.33%
	419	4823+30	45.45	LT	1	--	--	--	--	--	--	1	--	766.52	3.58	419	418A	762.11	761.80	0.47%
	420	4822+77	52.85	LT	1	--	--	--	--	--	--	1	--	766.85	3.16	420	418A	762.86	762.75	0.55%
	421	4822+67	30.00	RT	--	1	--	--	--	--	--	1	--	767.02	4.71	421	426	761.48	761.45	0.33%
	422	4822+84	30.00	RT	1	--	--	--	--	--	--	1	--	767.03	3.70	422	421	762.50	762.25	1.47%
	423	4822+01	48.73	LT	--	--	--	--	--	--	--	--	--	--	--	423	418B	763.00	761.70	2.20%
	424	4822+50	30.00	RT	1	--	--	--	--	--	--	1	--	767.03	2.20	424	425	764.00	763.87	0.93%
	425	4822+61	39.00	RT	--	--	--	--	1	--	--	--	2	767.57	6.12	425	EXISTING	761.45	--	--
	426	4822+67	39.00	RT	--	--	--	--	1	--	--	--	2	767.75	6.30	426	EXISTING	761.45	--	--
	427A	4814+00	41.07	LT	--	--	--	--	--	--	--	--	--	--	--	727A	727B	766.20	764.95	1.84%
	427B	4814+00	27.00	RT	1	--	--	--	--	--	1	--	--	768.49	2.46	427B	427C	764.95	764.72	1.64%
	427C	4814+00	41.14	RT	--	--	--	--	--	--	--	--	--	--	--	427C	OUTFALL	764.72	--	--
	430	4806+61	34.77	LT	--	--	--	--	--	--	--	--	--	--	--	430	431	763.50	761.22	4.75%
	431	4806+13	39.60	LT	--	--	--	1	--	--	--	1	--	766.87	4.82	431	433B	761.22	760.55	2.23%
	433A	4805+77	33.71	LT	--	--	--	--	--	1	1	--	--	--	--	433A	434	759.50	758.99	0.72%
	433B	4805+83	33.70	LT	--	--	--	--	--	--	--	--	--	--	--	433B	436	759.50	758.99	0.65%
	434	4805+80	37.00	RT	--	1	--	--	--	--	1	--	--	762.19	2.21	434	EXISTING	758.90	--	--
	435	4806+43	39.18	RT	--	--	--	--	--	--	--	--	--	--	--	435	436	761.00	759.99	1.74%
	436	4805+85	44.00	RT	--	--	--	--	1	--	--	--	2	762.13	3.14	436	EXISTING	758.99	--	--
	439A	4793+40	53.03	LT	--	--	--	--	--	--	--	--	--	--	--	439A	442A	761.00	760.38	0.56%
	439B	4793+31	53.02	LT	--	--	--	--	--	--	--	--	--	--	--	439B	442B	761.00	760.45	0.50%
	439C	4793+51	34.90	LT	1	--	--	--	--	--	1	--	--	766.40	--	439C	EXISTING	--	--	--
	440	4793+19	59.93	RT	--	--	--	--	--	--	--	--	--	--	--	440	442B	763.37	761.63	14.50%
	441	4793+56	61.66	RT	--	--	--	--	--	--	--	--	--	--	--	441	442A	763.89	761.63	13.29%
	442A	4793+39	58.28	RT	1	--	--	--	--	--	1	--	--	764.03	2.57	442A	EXISTING	760.38	--	--
	442B	4793+30	55.73	RT	--	--	1	--	--	--	1	--	--	764.16	2.70	442B	442A	760.38	760.38	0.00%
	442D	4793+30	63.63	RT	--	--	--	--	--	--	--	--	--	--	--	442D	EXISTING	760.38	760.34	0.50%
	443	4787+58	154.20	LT	--	--	--	--	--	--	--	--	--	--	--	443	44	771.23	769.00	2.30%
	444	4787+69	57.84	LT	1	--	--	--	--	--	--	1	--	772.19	2.61	444	446	768.75	768.50	0.52%
	445	4786+94	147.29	LT	--	--	--	--	--	--	--	--	--	--	--	445	446	771.23	769.00	2.19%
	446	4787+21	48.88	LT	--	1	--	--	--	--	--	1	--	772.19	2.86	446	447	768.50	768.23	0.31%
	447	4787+05	37.63	RT	--	--	--	--	--	--	--	--	--	--	--	447	OUTFALL	768.23	--	--
					14	3	3	5	3	2	10	17	6							

NOTES
1) APRON ENDWALLS: STATIONS AND OFFSETS ARE TO THE APRON END OF ENDWALLS.
2) PIPE LENGTHS ARE MEASURED TO THE CENTER OF STRUCTURES OR TO THE APRON END OF ENDWALLS (INCLUDES LENGTH OF AEW).
3) MANHOLES AND INLETS: RIM ELEVATIONS, STATIONS AND OFFSETS ARE GIVEN AT THE CENTER OF CASTING
4) STRUCTURE DEPTH = RIM ELEVATION - INVERT - CASTING HEIGHT ADJUSTMENT
   CASTING HEIGHT = 0.75 FT FOR J COVERS; 0.5 FT FOR TYPE HM AND S COVERS; 0 FT FOR TYPE MS COVERS
   ADJUSTMENT (RINGS) = 0.33 FT FOR J, HM AND S COVERS; 0 FT FOR TYPE MS COVERS
5) FLAT TOP SLAB WITH CENTERED 24" X 36" RECTANGULAR OPENING REQUIRED ON MANHOLES WITH TYPE HM INLET COVERS

*ADDITIONAL QUANTITIES LISTED ELSEWHERE

STORM SEWER ITEMS

CATEGORY	STRUCTURE NUMBER	STATION	OFFSET FT		608.0312 12-INCH LF	608.0315 15-INCH LF	608.0318 18-INCH LF	608.0324 24-INCH LF	608.0330 30-INCH LF	610.0129 STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-III 29x45-INCH LF	610.0134 34x53-INCH LF	522.1015 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 15-INCH EACH	522.1018 18-INCH EACH	522.1024 24-INCH EACH	522.1030 30-INCH EACH	523.0529 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 29X45-INCH EACH	520.8000 CONCRETE COLLARS FOR PIPE EACH	611.9800.S PIPE GRATES EACH	633.5200 MARKERS CULVERT END EACH	*204.0280 SEALING PIPE EACH	NOTES
1000	14 WEST FRONTAGE ROAD																				
	400	4843+51	29.65	RT		301	--	--	--	--	--	1	--	--	--	--	--	--	1	--	
	401	4840+50	19.00	RT	--	15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	402	4840+50	34.56	RT	--	--	295	--	--	--	--	--	--	--	--	--	--	--	--	--	
	403	4837+55	37.90	RT	--	--	19	--	--	--	--	--	--	--	--	--	--	--	--	--	
	404	4837+50	19.00	RT	--	--	51	--	--	--	--	--	--	--	--	--	--	--	--	--	
	405	4837+50	32.02	LT		--	--	--	--	--	--	--	1	--	--	--	--	--	1	--	
	406	4835+65	19.00	RT	--	14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	407	4835+50	19.00	RT	--	14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	408	4835+35	19.00	RT	--	--	43	--	--	--	--	--	--	--	--	--	--	--	--	--	
	409	4834+95	28.75	LT		--	--	--	--	--	72	--	--	--	--	--	--	--	--	--	MASONRY ENDWALL, STA/OFFSET IS FOR PIPE LOCATION
	409A	4834+87	28.75	LT		--	--	--	--	--	72	--	--	--	--	--	--	--	--	--	MASONRY ENDWALL, STA/OFFSET IS FOR PIPE LOCATION
	409B	4834+79	28.75	LT		--	--	--	--	--	72	--	--	--	--	--	--	--	--	--	MASONRY ENDWALL, STA/OFFSET IS FOR PIPE LOCATION
	410A	4834+87	41.94	RT	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	410B	4834+75	41.96	RT	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	411	4833+00	19.00	RT	--	57	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	412	4833+00	38.45	LT		--	--	--	--	--	--	1	--	--	--	--	--	--	1	--	
	413	4827+38	19.00	LT	--	95	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	414	4826+46	43.32	LT		--	--	--	--	--	--	1	--	--	--	--	--	--	1	--	
	415	4825+50	23.73	RT	--	64	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	416	4825+50	40.28	LT		--	--	--	--	--	--	1	--	--	--	--	--	--	1	--	
	417	4823+81	52.82	LT		--	52	--	--	--	--	--	1	--	--	--	--	1	1	--	
	418A	4822+64	36.85	LT	--	--	--	--	67	--	--	--	--	--	--	--	--	--	--	--	
	418B	4822+59	37.11	LT		--	--	--	76	--	--	--	--	--	--	--	--	--	--	--	418 B IS ONE EXIST STRUCTURE, STA/OFFSET IS FOR PIPE LOCATION
	419	4823+30	45.45	LT	--	--	67	--	--	--	--	--	--	--	--	--	--	--	--	--	
	420	4822+77	52.85	LT	--	21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	421	4822+67	30.00	RT	--	--	--	--	9	--	--	--	--	--	--	--	--	--	--	--	
	422	4822+84	30.00	RT	--	17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	423	4822+01	48.73	LT		--	--	--	59	--	--	--	--	--	1	--	--	1	1	--	CONNECT TO EXISTING MH AT 418B
	424	4822+50	30.00	RT	--	14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	425	4822+61	39.00	RT	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	24" X 38" EAST PIPES ALREADY BUILT. MATCH EXISTING. SINGLE SLOPE GRATE.
	426	4822+67	39.00	RT	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	24" X 38" EAST PIPES ALREADY BUILT. MATCH EXISTING. SINGLE SLOPE GRATE.
	427A	4814+00	41.07	LT		--	--	68	--	--	--	--	--	1	--	--	1	1	--		
	427B	4814+00	27.00	RT	--	--	--	14	--	--	--	--	--	--	--	--	--	--	--	--	
	427C	4814+00	41.14	RT		--	--	--	--	--	--	--	--	1	--	--	--	--	1	--	
	430	4806+61	34.77	LT		48	--	--	--	--	--	1	--	--	--	--	--	1	1	--	
	431	4806+13	39.60	LT	--	31	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	433A	4805+77	33.71	LT		--	--	--	71	--	--	--	--	--	--	--	--	--	--	--	433A/B IS ONE EXIST STRUCTURE, STA/OFFSET IS FOR PIPE LOCATION
	433B	4805+83	33.70	LT		--	--	--	78	--	--	--	--	--	--	--	--	--	--	--	433A/B IS ONE EXIST STRUCTURE, STA/OFFSET IS FOR PIPE LOCATION
	434	4805+80	37.00	RT	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	
	435	4806+43	39.18	RT		--	58	--	--	--	--	--	1	--	--	--	--	1	--	--	
	436	4805+85	44.00	RT	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	NO SLOPE GRATE
	439A	4793+40	53.03	LT		--	--	--	--	111	--	--	--	--	--	1	--	--	1	--	
	439B	4793+31	53.02	LT		--	--	--	--	109	--	--	--	--	--	1	--	--	1	--	
	439C	4793+51	34.90	LT	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	440	4793+19	59.93	RT		12	--	--	--	--	--	1	--	--	--	--	--	--	1	--	
	441	4793+56	61.66	RT		17	--	--	--	--	--	1	--	--	--	--	--	--	1	--	
	442A	4793+39	58.28	RT	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	
	442B	4793+30	55.73	RT	--	--	--	--	--	9	--	--	--	--	--	--	--	--	--	--	
	442D	4793+30	63.63	RT		--	--	--	--	8	--	--	--	--	--	--	--	--	--	1	SEAL PIPE AT 442D
	443	4787+58	154.20	LT		97	--	--	--	--	--	1	--	--	--	--	--	1	1	--	
	444	4787+69	57.84	LT	--	--	49	--	--	--	--	--	--	--	--	--	--	--	--	--	
	445	4786+94	147.29	LT		--	102	--	--	--	--	--	1	--	--	--	--	1	1	--	
	446	4787+21	48.88	LT	--	--	--	88	--	--	--	--	--	--	--	--	--	--	--	--	
	447	4787+05	37.63	RT		--	--	--	--	--	--	--	--	1	--	--	--	--	1	--	
					0	817	736	170	360	237	216	8	4	3	1	2	5	7	17	1	

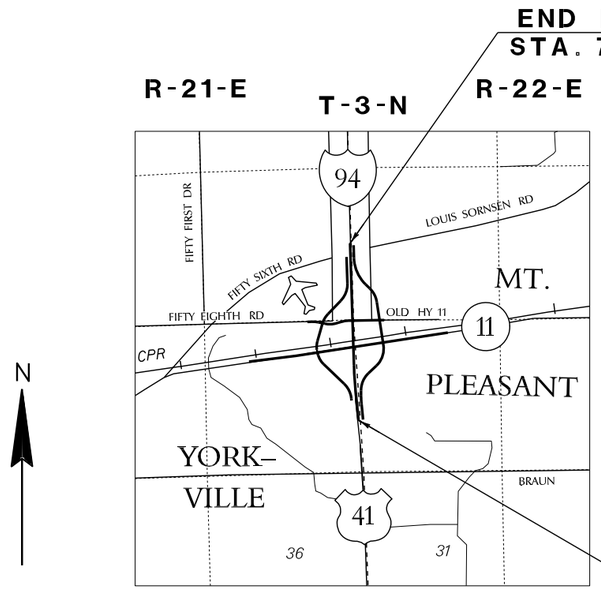
NOTES
1) APRON ENDWALLS: STATIONS AND OFFSETS ARE TO THE APRON END OF ENDWALLS.
2) PIPE LENGTHS ARE MEASURED TO THE CENTER OF STRUCTURES OR TO THE APRON END OF ENDWALLS (INCLUDES LENGTH OF AEW).
3) MANHOLES AND INLETS: RIM ELEVATIONS, STATIONS AND OFFSETS ARE GIVEN AT THE CENTER OF CASTING
4) STRUCTURE DEPTH = RIM ELEVATION - INVERT - CASTING HEIGHT ADJUSTMENT
   CASTING HEIGHT = 0.75 FT FOR J COVERS; 0.5 FT FOR TYPE HM AND S COVERS; 0 FT FOR TYPE MS COVERS
   ADJUSTMENT (RINGS) = 0.33 FT FOR J, HM AND S COVERS; 0 FT FOR TYPE MS COVERS
5) FLAT TOP SLAB WITH CENTERED 24" X 36" RECTANGULAR OPENING REQUIRED ON MANHOLES WITH TYPE HM INLET COVERS

*ADDITIONAL QUANTITIES LISTED ELSEWHERE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

TRANSPORTATION PROJECT PLAT TITLE SHEET

PROJECT NO. 1030-24-20
INTERSTATE 94
STH 11 INTERCHANGE
RACINE COUNTY



N

YORKVILLE **R-21-E** **MT. PLEASANT** **R-22-E**

RACINE COUNTY

LAYOUT

SCALE 0 1 MILE

THE NOTES, CONVENTIONAL SYMBOLS, AND VARIOUS ABBREVIATIONS ARE ASSOCIATED WITH EACH TRANSPORTATION PROJECT PLAT OF PROJECT 1030-24-20.

NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, RACINE COUNTY ZONE, NAD83 (97) ADJUSTMENT AND ARE REFERENCED TO GPS HARN POINTS YORKVILLE EAST, RAYMOND SOUTH, AND PARIS EAST. ALL DISTANCES ARE GROUND LENGTH.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL ¾" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT, BY SE REGION DOT SURVEY.

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS OF PUBLIC RECORD".

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY LINES, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE. ALL TLEs EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

A PERMANENT LIMITED EASEMENT (PLE) IS A RIGHT FOR CONSTRUCTION AND MAINTENANCE PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE. BUT WITHOUT PREJUDICE TO THE OWNER'S RIGHT TO MAKE OR CONSTRUCT IMPROVEMENT ON SAID LANDS OR TO FLATTEN THE SLOPES, PROVIDING SAID ACTIVITIES WILL NOT IMPAIR OR OTHERWISE ADVERSELY AFFECT THE HIGHWAY FACILITIES.

CONVENTIONAL ABBREVIATIONS

ACCESS POINT	AP	RELEASE OF RIGHTS	ROR
ACCESS RIGHTS	AR	REMAINING	REM.
ACRES	AC.	RIGHT-OF-WAY	R/W
AND OTHERS	ET.AL.	SECTION	SEC.
CENTERLINE	C/L	STATION	STA.
CERTIFIED SURVEY MAP	CSM	TEMPORARY LIMITED EASEMENT	TLE
CORNER	COR.	VOLUME	V.
CONVEYANCE OF RIGHTS	CR		
DOCUMENT	DOC.	**CURVE DATA**	
EASEMENT	EASE.	LONG CHORD	LCH
LAND CONTRACT	LC	LONG CHORD BEARING	LCB
MONUMENT	MON.	RADIUS	R
PAGE	P.	DEGREE OF CURVE	D
PERMANENT LIMITED EASEMENT	PLE	CENTRAL ANGLE OR DELTA	DELTA
PROPERTY LINE	PL	LENGTH OF CURVE	L
RECORDED AS	(100')	TANGENT	TAN
REFERENCE LINE	R/L		

CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN	⌀ (1" UNLESS NOTED)	PROPOSED R/W LINE	
		EXISTING H.E. LINE	
R/W MONUMENT	●(SET)	PROPERTY LINE	
R/W STANDARD	▲(SET)	LOT & TIE LINES	
SIGN	ISIGN	SLOPE INTERCEPTS	
SECTION CORNER MONUMENT		CORPORATE LIMITS	
SECTION CORNER SYMBOL		NO ACCESS (BY PREVIOUS ACQUISITION/CONTROL)	
FEE - HE (HATCH VARIES)		NO ACCESS (BY ACQUISITION)	
TEMPORARY LIMITED EASEMENT		NO ACCESS (BY STATUTORY AUTHORITY)	
PERMANENT LIMITED EASEMENT		SECTION LINE	
R/W BOUNDARY POINT	RWB20	QUARTER LINE	
PARCEL NUMBER	02	SIXTEENTH LINE	
SIGN NUMBER (OFF PREMISE)	21	EXISTING CENTERLINE	
BUILDING		PROPOSED REFERENCE LINE	
		PARALLEL OFFSET	

CONVENTIONAL UTILITY SYMBOLS

WATER	W	
GAS	G	
TELEPHONE	T	
OVERHEAD TRANSMISSION LINES	OH	
ELECTRIC	E	
CABLE TELEVISION	TV	
FIBER OPTIC	FO	
SANITARY SEWER	SAN	
STORM SEWER	SS	
	NON COMPENSABLE	COMPENSABLE
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		
ELECTRIC TOWER		

THIS IS A COPY, THE ORIGINAL DOCUMENT IS AT THE RACINE COUNTY REGISTER OF DEEDS.

TPP NUMBER 1030-24-20-4.01
SHEET 2 OF 2

DOCUMENT #3237987
RACINE COUNTY REGISTER OF DEEDS
December 29, 2009 8:24 AM
JAMES A LADWIG
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: $25.00
Pages: 2
Vol 1 pg 90

FILE NAME : J:\projects\d2_r_10302494\20\040400_rp.dgn PLOT DATE : 11-DEC-2009 08:11 PLOT BY : dotphk PLOT NAME : PLOT SCALE : 100.000000:1.000000

CONST. 1030-24-70 STH 11 R/W 1030-24-20 4.00

TRANSPORTATION PROJECT PLAT NO: 1030-24-20 - 4.07 AMENDMENT NO: 1

ADDS PARCEL 134 OF TPP 1030-24-20-4.07, RECORDED AS DOCUMENT 2240912.

THAT PART OF PARCELS 1, 2, AND 3 OF CSM 1149, LOCATED IN AND INCLUDING THAT PART OF THE SE1/4 OF THE SE1/4, AND THE NE1/4 OF THE SE1/4, SECTION 24, TOWN 3 NORTH, RANGE 21 EAST, TOWN OF YORKVILLE, RACINE COUNTY, WISCONSIN.

RELOCATION ORDER IH-94/STH 11 RACINE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF DOCUMENT 2237987, OF TRANSPORTATION PROJECT PLATS IN THE RACINE COUNTY REGISTER OF DEEDS.

SCHEDULE OF LANDS & INTERESTS REQUIRED		OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.					
PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED ACRES NEW	R/W REQUIRED ACRES EXISTING	R/W REQUIRED ACRES TOTAL	T.L.E. TEMP. ACRES	P.L.E. PERM. ACRES
30	KEVIN R. HAIGH	Fee AR TLE	0.121	0.157	0.278	0.030	0.000
31	MIKE BENBEN INC.	Fee AR TLE	3.853	0.367	4.220	0.143	0.000
32	SYLVANIA AIRPORT, LLC	AR TLE	0.000	0.000	0.000	0.044	0.000
33	ROBERT B. MCKAY	AR TLE	0.000	0.000	0.000	0.064	0.000
34	D'ACQUISTO - REV. LIVING TRUST	AR TLE	0.000	0.000	0.000	0.035	0.000
134	D'ACQUISTO - REV. LIVING TRUST	Fee	0.020	0.102	0.122	0.000	0.000
100	WE ENERGIES ELECTRIC	ROR	-----	-----	-----	-----	-----

HIGHWAY	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
I-94	I 101-1(3)	VARIES	1956
I-94	2382	VARIES	1935
58TH ROAD	I 101-1(3)	130'	1956
58TH ROAD	WIDTH BY SS 82.31(2)	66'	
56TH ROAD	RACINE & BURLINGTON TERRITORIAL ROAD	66'	1846

NOTES:
COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, RACINE COUNTY ZONE, NAD83 (97) ADJUSTMENT AND ARE REFERENCED TO GPS HARN POINTS YORKVILLE EAST, RAYMOND SOUTH, AND PARIS EAST. ALL DISTANCES ARE GROUND LENGTH.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT, BY SE REGION DOT SURVEY.

FOR THE LATEST ACCESS / DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

SCALE, FEET
0 100 200

SEE TPP 1030-24-20-4.04

SHEET LOCATION

THIS IS A COPY, THE ORIGINAL DOCUMENT IS AT THE RACINE COUNTY REGISTER OF DEEDS.

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENTOF TRANSPORTATION.

DATE: 6-9-2011 — Name / Title

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 6-7-2011 — Name PAUL KRAUSE

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1030-24-20-4.07
AMENDMENT NO: 1

DOCUMENT # 2288421
RACINE COUNTY REGISTER OF DEEDS
July 07, 2011 7:55 AM
TRACEY L FEICHTNER
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: $25.00
Pages: 1
Vol 1 Pg 186

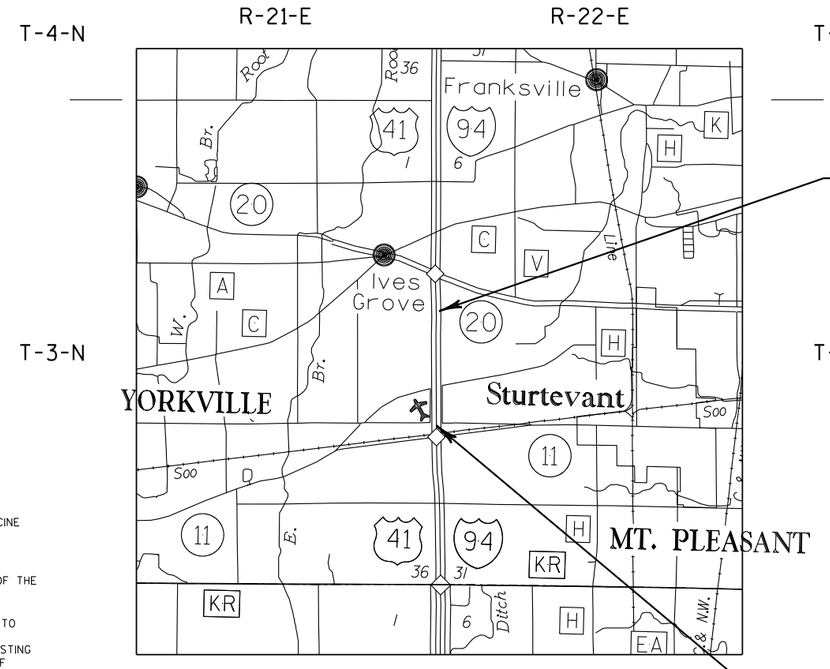
FILE NAME : J:\projects\d2_r_10302494\20\040407A1_rp.dgn PLOT DATE : 06-JUN-2011 13:38 PLOT BY : dotphk PLOT NAME : PLOT SCALE : 100.000000:1.000000
CONST. 1030-24-70 STH 11 R/W 1030-24-20 4.07A1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

TRANSPORTATION PROJECT PLAT TITLE SHEET

PROJECT NO. 1033-02-21

INTERSTATE 94
STH 11 TO STH 20
RACINE COUNTY



THE NOTES, CONVENTIONAL SYMBOLS, AND VARIOUS ABBREVIATIONS ARE ASSOCIATED WITH EACH TRANSPORTATION PROJECT PLAT OF PROJECT 1033-02-21.

NOTES:

COORDINATES AND BEARINGS ON THE PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, RACINE COUNTY, NAD 1983 (1997) ADJUSTMENT, ALL DISTANCES ARE GROUND LENGTH AND ARE REFERENCED TO GPS HARN POINTS PARIS E, YORKVILLE E AND RAYMOND S. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY WISCONSIN DOT SOUTHEAST REGION SURVEY.

ACCESS CONTROL ALONG WESTERLY RIGHT-OF-WAY LINE OF IH 94 / USH 41 IS PER PROJECT I-101-1(3)

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY OR OTHER SURVEYS OF RECORD.
PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. EXCLUDING RIGHT-OF-WAY BOUNDARIES, THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE. ALL TLES EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

A PERMANENT LIMITED EASEMENT (PLE) IS A RIGHT FOR CONSTRUCTION AND MAINTENANCE PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE, BUT WITHOUT PREJUDICE TO THE OWNER'S RIGHT TO MAKE OR CONSTRUCT IMPROVEMENT ON SAID LANDS OR TO FLATTEN THE SLOPES, PROVIDING SAID ACTIVITIES WILL NOT IMPAIR OR OTHERWISE ADVERSELY AFFECT THE HIGHWAY FACILITIES.

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO NEW REFERENCE LINES.

CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	REFERENCE LINE	R/L
ACCESS RIGHTS	AR	RELEASE OF RIGHTS	ROR
ACRES	AC.	REMAINING	REM.
AND OTHERS	ET.AL.	RIGHT-OF-WAY	R/W
CENTERLINE	C/L	SECTION	SEC.
CERTIFIED SURVEY MAP	CSM	STATION	STA.
CORNER	COR.	TEMPORARY LIMITED EASEMENT	TLE
DOCUMENT	DOC.	VOLUME	V.
EASEMENT	EASE.	**CURVE DATA**	
HIGHWAY EASEMENT	H.E.	LONG CHORD	LCH
LAND CONTRACT	LC	LONG CHORD BEARING	LCB
MONUMENT	MON.	RADIUS	R
PAGE	P.	DEGREE OF CURVE	D
PERMANENT LIMITED EASEMENT	PLE	CENTRAL ANGLE OR DELTA	DELTA
PROPERTY LINE	PL	LENGTH OF CURVE	L
RECORDED AS	(100')	TANGENT	TAN

CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN	⌀ (1" UNLESS NOTED)	PROPOSED R/W LINE
R/W MONUMENT	● (SET)	EXISTING H.E. LINE
R/W STANDARD	▲ (SET)	PROPERTY LINE
SIGN	SIGN	LOT & TIE LINES
SECTION CORNER MONUMENT		SLOPE INTERCEPTS
SECTION CORNER SYMBOL		CORPORATE LIMITS
FEE (HATCH VARIES)		NO ACCESS (BY PREVIOUS ACQUISITION/CONTROL)
TEMPORARY LIMITED EASEMENT		NO ACCESS (BY ACQUISITION)
PERMANENT LIMITED EASEMENT		NO ACCESS (BY STATUTORY AUTHORITY)
R/W BOUNDARY POINT	RWB20	SECTION LINE
PARCEL NUMBER	103	QUARTER LINE
UTILITY PARCEL NUMBER	92	SIXTEENTH LINE
SIGN NUMBER (OFF PREMISE)	21-1	EXISTING CENTERLINE
BUILDING		PROPOSED REFERENCE LINE
		PARALLEL OFFSET

CONVENTIONAL UTILITY SYMBOLS

WATER	W	
GAS	G	
TELEPHONE	T	
OVERHEAD	OH	
TRANSMISSION LINES		
ELECTRIC	E	
CABLE TELEVISION	TV	
FIBER OPTIC	FO	
SANITARY SEWER	SAN	
STORM SEWER	SS	
	NON COMPENSABLE	COMPENSABLE
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		
ELECTRIC TOWER		

THIS IS A COPY, ORIGINAL DOCUMENT IS FILED AT THE RACINE COUNTY REGISTER OF DEEDS

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1033-02-21 - 4.01
SHEET 2 OF 2
AMENDMENT NO:
Vol 1 Pg 191

TRANSPORTATION PROJECT PLAT NO: 1033-02-21 - 4.01

THAT PART OF THE NORTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 24 AND THAT PART OF LOT 1 OF CSM NO. 1142 AND LOT 2 OF CSM NO 1036 LOCATED IN AND INCLUDING THAT PART OF THE SOUTH EAST 1/4 OF THE NORTHEAST 1/4 OF SECTION 24 ALL IN TOWNSHIP 3 NORTH RANGE 21 EAST IN THE TOWN OF YORKVILLE AND THE SOUTHWEST 1/4 OF THE NORTHWEST 1/4 OF SECTION 19 TOWNSHIP 3 NORTH RANGE 22 EAST IN THE VILLAGE OF MOUNT PLEASANT, ALL IN RACINE COUNTY, WISCONSIN.

RELOCATION ORDER I-94, STH 11 TO STH 20 RACINE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

NOTES:

COORDINATES AND BEARINGS ON THE PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, RACINE COUNTY, NAD 1983 (1997) ADJUSTMENT, ALL DISTANCES ARE GROUND LENGTH AND ARE REFERENCED TO GPS HARN POINTS PARIS E, YORKVILLE E AND RAYMOND S.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY WISCONSIN DOT SOUTHEAST REGION SURVEY.

ACCESS CONTROL ALONG WESTERLY RIGHT-OF-WAY LINE OF IH 94 / USH 41 IS PER PROJECT I-101-1(3)

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY OR OTHER SURVEYS OF RECORD.

FOR THE LATEST ACCESS / DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

ACCESS CONTROL SHOWN ON THIS PLAT IS PER PROJECT I-101-1(3) AND CONTROLS ACCESS BETWEEN FREEWAY FACILITIES AND ADJACENT FRONTAGE ROADS / ADJACENT LANDS

THIS IS A COPY, ORIGINAL DOCUMENT IS FILED AT THE RACINE COUNTY REGISTER OF DEEDS

SCHEDULE OF LANDS & INTERESTS REQUIRED		OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.					
PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED ACRES NEW	EXISTING	TOTAL	TLE TEMP ACRES	PLE PERM ACRES
1	GEORGE A. & JOAN E. CICONA	AR TLE	--	--	--	0.034	--
2	DONALD UMBERGER	FEE AR	0.269	--	0.269	--	--
3	ROBERT A. GLEASON	AR TLE	--	--	--	0.072	--
4	DAVID T. & JOSEPH E. BORZYNSKI	AR TLE	--	--	--	0.037	--
5	THOMAS HRIBAR	FEE AR PLE TLE	0.520	3.128	3.648	0.041	0.196
100	WE ENERGIES - ELECTRIC	ROR	--	--	--	--	--
--	--	--	--	--	--	--	--

HWY	BASIS OF EXISTING R/W	YEAR	WIDTH
I-94	I 101-1(3)	1956	VARIES
I-94	DIVISION JOB 2382	1935	VARIES
LEETSBIR ROAD	CSM NO. 1036	1983	66'
56TH ROAD	RACINE & BURLINGTON TERRITORIAL ROAD	1846	66'

WEST FRONTAGE ROAD
PI STA. = 4797+00.00
Y = 178968.86
X = 593907.04
PC STA = 4795+12.84
PT STA. = 4798+87.12
DELTA = 01° 47'13"
D = 00°28'39"
L = 374.28
R = 12000.00'
LCH = 374.26'
LCB = N 00°35'50" E

WEST FRONTAGE ROAD
PI STA. = 4802+40.06
Y = 179508.77
X = 593921.09
PC STA = 4800+52.91
PT STA. = 4804+27.18
DELTA = 01°47'13"
D = 00°28'39"
L = 374.27'
R = 12000.00'
LCH = 374.26'
LCB = N 00°35'50" E

EAST FRONTAGE ROAD
PI STA. = 5800+36.09
Y = 179305.37
X = 594172.05
PC STA = 5799+67.72
PT STA = 5801+04.45
DELTA = 00°39'10"
D = 00°28'39"
L = 136.73'
R = 12000.00
LCH = 136.73'
LCB = N 00°07'36" W

LEETSBIR ROAD
PI STA. = 74+93.61
Y = 178811.83
X = 593612.61
PC STA = 74+61.65
PT STA. = 75+25.57
DELTA = 00°54'56"
D = 01°25'57"
L = 63.92
R = 4000.00'
LCH = 63.92'
LCB = N 89°38'13" E

56th ROAD
PI STA. = 48+53.84
Y = 177998.80
X = 593767.92
PC STA = 47+31.06
PT STA. = 49+76.43
DELTA = 5°37'24"
D = 2°17'31"
L = 245.37'
R = 2500.00'
LCH = 245.27
LCB = N 76°53'31" E

EAST FRONTAGE ROAD
PI STA. = 5793+50.00
Y = 178619.28
X = 594169.66
PC STA = 5793+15.60
PT STA. = 5793+84.40
DELTA = 00°19'43"
D = 00°28'39"
L = 68.80'
R = 12000.00
LCH = 68.80'
LCB = N 00°02'08" E

I-94
PI STA. = 805+08.21
Y = 179777.30
X = 594047.06
PC STA = 800+73.62
PT STA. = 809+42.80
DELTA = 00°21'44"
D = 00°02'30"
L = 869.17'
R = 137515.87'
LCH = 869.17'
LCB = N 00°16'19" W

CURVE A
R = 137515.87'
L = 358.08'
LCH = 358.08'
LCB = N 00°09'56" W

CAST IRON MONUMENT W/ BRASS CAP Y=1783634.46 X=594172.82

CAST IRON MONUMENT W/ BRASS CAP Y=1803347 X=594106.89

CONCRETE MONUMENT W/ BRASS CAP Y=1756936.15 X=594117.87

CONCRETE MONUMENT W/ BRASS CAP Y=1783628.73 X=594112.87

CONCRETE MONUMENT W/ BRASS CAP Y=1783129.92 X=596912.25

LOCATION MAP NTS

SHEET LOCATION

100 PARCEL 1 NO EASEMENT OF RECORD
PARCEL 5 NO EASEMENT OF RECORD

SCALE, FEET 0 100' 200'

SEE TPP 1030-24-20 4.07

SEE TPP 1030-24-20 4.04

SEE TPP 1033-02-21-4.02

UMBERGER

TOWN OF YORKVILLE

VILLAGE OF MOUNT PLEASANT

UNPLATTED LANDS

CSM NO. 1142 DOC. NO. 1294580 LOT 1

CSM NO. 1036 DOC. NO. 1132444 LOT 2

TLE FOR SLOPES AND DRIVEWAY

TLE FOR SLOPES

PLE FOR DRAINAGE

1 AP STA. 790+96.31 TO STA. 804+36.46

SLOPE INTERCEPT

ACCESS CONTROL (SEE NOTES FOR DETAILS)

COMPENSABLE DETAIL

TLE DETAIL:

DETAIL: (ACCESS CONTROL)

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2, OF THIS DOCUMENT FOR ADDITIONAL INFORMATION.

Milwaukee Transportation Partners LLC

I, BRIAN M. DODGE, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1010 33-02-21- 4.01 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 7/26/2011 (SIGNATURE) Brian M. Dodge
BRIAN M. DODGE
AGENT FOR MILWAUKEE TRANSPORTATION PARTNERS, LLC
R.L.S. NUMBER 2848

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION SOUTHEAST REGION.

DATE 7-28-11 (SIGNATURE) OE Andersen
(PRINTED NAME) Craig Andersen

BRIAN M. DODGE S-2848 WAUKESHA, WI — WISCONSIN — LAND SURVEYOR

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1033-02-21 4.01
SHEET 1 OF 2
AMENDMENT NO:

DOCUMENT # 2292200
RACINE COUNTY REGISTER OF DEEDS
August 23, 2011 7:44 AM
TYSON FEITER
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: $25.00
Pages: 2
Vol 1 Pg 190 191

TRANSPORTATION PROJECT PLAT NO: 1033-02-21 - 4.02

THAT PART OF LOTS 1 AND 2 AND OUTLOT 1 OF CSM NO. 2919 BEING A PART OF THE NORTHEAST 1/4 OF THE NORTHEAST 1/4 OF SECTION 24, TOWNSHIP 3 NORTH, RANGE 21 EAST, AND THAT PART OF LOT 1 OF CSM NO. 2919, PARCEL 1 OF CSM NO. 2494, AND PARCEL 1 OF CSM NO. 2413 BEING A PART OF THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 13, TOWNSHIP 3 NORTH, RANGE 21 EAST ALL IN THE TOWN OF YORKVILLE, RACINE COUNTY, WISCONSIN; AND THAT PART OF NORTHWEST 1/4 OF THE NORTHWEST 1/4 OF SECTION 19, AND PART OF PARCEL 1 OF CSM NO. 1301 LOCATED IN AND INCLUDING THAT PART OF THE SOUTHWEST 1/4 OF THE SOUTHWEST 1/4 OF SECTION 18 ALL IN TOWNSHIP 3 RANGE 22 EAST IN THE VILLAGE OF MOUNT PLEASANT, RACINE COUNTY, WISCONSIN.

RELOCATION ORDER I-94, STH 11 TO STH 20 RACINE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

SCHEDULE OF LANDS & INTERESTS REQUIRED		OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.					
PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED ACRES NEW	EXISTING	TOTAL	TLE TEMP ACRES	PLE PERM ACRES
5	THOMAS HRIBAR	FEE, AR, TLE	--	0.013	0.013	0.004	--
6	HRIBAR CORPORATE CENTER, LLC	FEE, AR, PLE, TLE	0.270	1.087	1.357	0.200	0.013
7	THOMAS HRIBAR	FEE, AR, TLE	--	1.598	1.598	0.144	--
8	MLG/HIGHWAY 20 LIMITED PARTNERSHIP	AR	--	--	--	--	--
9	JOSEPH F & ANNA J. FOX	AR	--	--	--	--	--
10	RD RACINE, LLC	FEE, AR	0.162	--	0.162	--	--
11	GRANDVIEW BUSINESS PARK OWNER	AR	--	--	--	--	--
12	GRANDVIEW INTERSTATE CENTER ON	AR					
13	CENTERPOINT WISPARK LAND COMPANY, LLC	AR, TLE	--	--	--	0.002	--
14	COASTAL CV9, LLC	AR, TLE	--	--	--	0.003	--
15	SYLVANIA PARTNERSHIP, LLC	AR	--	--	--	--	--
100	WE ENERGIES - ELECTRIC	ROR	--	--	--	--	--
101	WE ENERGIES - GAS	ROR	--	--	--	--	--
103	AT&T WISCONSIN	ROR	--	--	--	--	--
108	TOWN OF YORKVILLE - SEWER	ROR	--	--	--	--	--
UA206	TOWN OF YORKVILLE - WATER	MUNICIPAL UTILITY AGREEMENT	--	--	--	--	--
UA208	TOWN OF YORKVILLE - SEWER	MUNICIPAL UTILITY AGREEMENT	--	--	--	--	--

WEST FRONTAGE ROAD
PI STA. = 4827+33.81
Y = 182002.51
X = 593908.19
PC STA = 4826+19.19
PT STA. = 4828+48.41
DELTA = 1°05'40"
D = 0°28'39"
L = 229.22'
R = 12000.00'
LCH = 229.22'
LCB = N 00°50'37" W

EAST FRONTAGE ROAD
PI STA. = 5830+76.92
Y = 182346.11
X = 594148.00
PC STA = 5826+21.00
PT STA. = 5835+02.52
DELTA = 36°04'37"
D = 04°05'33"
L = 881.52'
R = 1400.00'
LCH = 867.03'
LCB = N 17°35'07" E

I-94
PI STA. = 805+08.21
Y = 179777.30
X = 594047.06
PC STA = 800+73.62
PT STA. = 809+42.80
DELTA = 00°21'44"
D = 00°02'30"
L = 869.17'
R = 137515.87'
LCH = 869.17'
LCB = N 00°16'19" W

CURVE B
R = 137515.87'
L = 511.09'
LCH = 511.09
LCB = N 00°20'48" W

CURVE C
R = 1400.00'
L = 475.12'
LCH = 472.84'
LCB = N 09°16'09" E

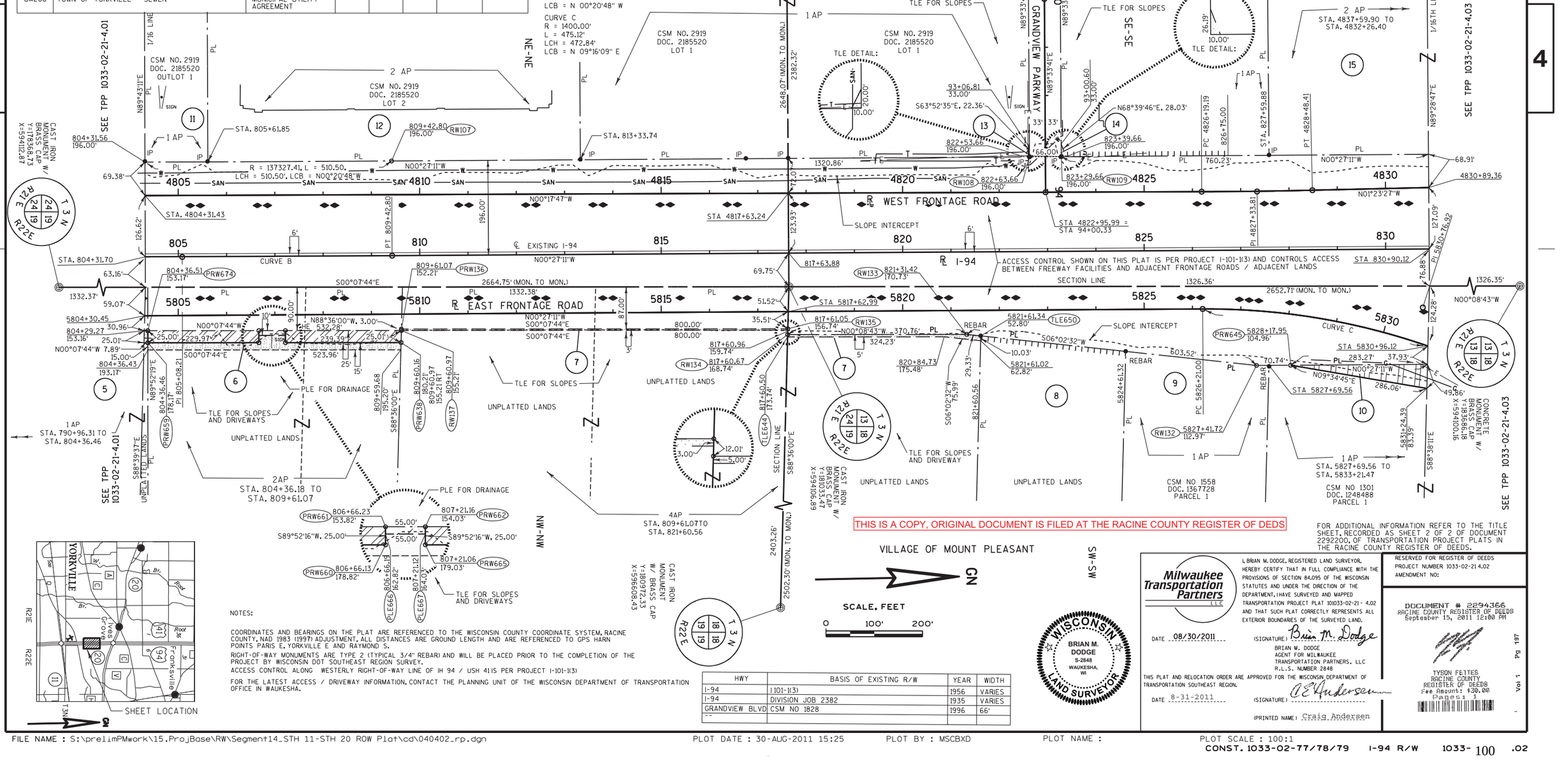
CAST IRON MONUMENT W/ BRASS CAP Y=180012.86 X=591658.89

100 PARCEL 5 - NO EASEMENT OF RECORD
PARCEL 10 - DOC. NO. 1419680
PARCEL 13 - DOC. NO. 1443397
PARCEL 14 - DOC. NO. 1443397
PARCEL 14 - DOC. NO. 1923813

101 PARCEL 10 -NO EASEMENT OF RECORD

103 PARCEL 10 -DOC. NO. 1419680
PARCEL 13 - DOC. NO. 2194094

108 PARCEL 13 -NO EASEMENT OF RECORD



NOTES:

COORDINATES AND BEARINGS ON THE PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, RACINE COUNTY, NAD 1983 (1997) ADJUSTMENT. ALL DISTANCES ARE GROUND LENGTH AND ARE REFERENCED TO GPS HARN POINTS PARIS E, YORKVILLE E AND RAYMOND S.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY WISCONSIN DOT SOUTHEAST REGION SURVEY.

ACCESS CONTROL ALONG WESTERLY RIGHT-OF-WAY LINE OF IH 94 / USH 41 IS PER PROJECT I-101-1(3)

FOR THE LATEST ACCESS / DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

HWY	BASIS OF EXISTING R/W	YEAR	WIDTH
I-94	I 101-1(3)	1956	VARIES
I-94	DIVISION JOB 2382	1935	VARIES
GRANDVIEW BLVD	CSM NO 1828	1996	66'
--			

THIS IS A COPY, ORIGINAL DOCUMENT IS FILED AT THE RACINE COUNTY REGISTER OF DEEDS

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF DOCUMENT 2292200, OF TRANSPORTATION PROJECT PLATS IN THE RACINE COUNTY REGISTER OF DEEDS.

Milwaukee Transportation Partners LLC

I, BRIAN M. DODGE, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1033-02-21 - 4.02 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 08/30/2011 (SIGNATURE) Brian M. Dodge
BRIAN M. DODGE
AGENT FOR MILWAUKEE TRANSPORTATION PARTNERS, LLC
R.L.S. NUMBER 2848

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION SOUTHEAST REGION.

DATE 8-31-2011 (SIGNATURE) OE Andersen
(PRINTED NAME) Craig Andersen

BRIAN M. DODGE S-2848 WAUKESHA, WI WISCONSIN LAND SURVEYOR

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1033-02-21.4.02
AMENDMENT NO:

DOCUMENT # 2294366
RACINE COUNTY REGISTER OF DEEDS
September 15, 2011 12:00 PM
TYSON FEITES
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: $20.00
Pages: 1
Vol 1 Pg 197

TRANSPORTATION PROJECT PLAT NO: 1033-02-21 - 4.03

THAT PART PARCEL 1 OF CSM NO. 2413 AND PART OF PARCELS 4 AND 5 AND OUTLOT 2 OF CSM NO. 2008 ALL IN THE NORTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 13, TOWNSHIP 3 NORTH, RANGE 21 EAST, TOWN OF YORKVILLE, AND PART OF PARCEL 1 CSM NO. 1301 LOCATED IN AND INCLUDING THAT PART OF AND THE NORTHWEST 1/4 OF THE SOUTHWEST 1/4 OF SECTION 18, TOWNSHIP 3 NORTH, RANGE 22 EAST, VILLAGE OF MOUNT PLEASANT, ALL IN RACINE COUNTY, WISCONSIN.

RELOCATION ORDER I-94, STH 11 TO STH 20 RACINE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

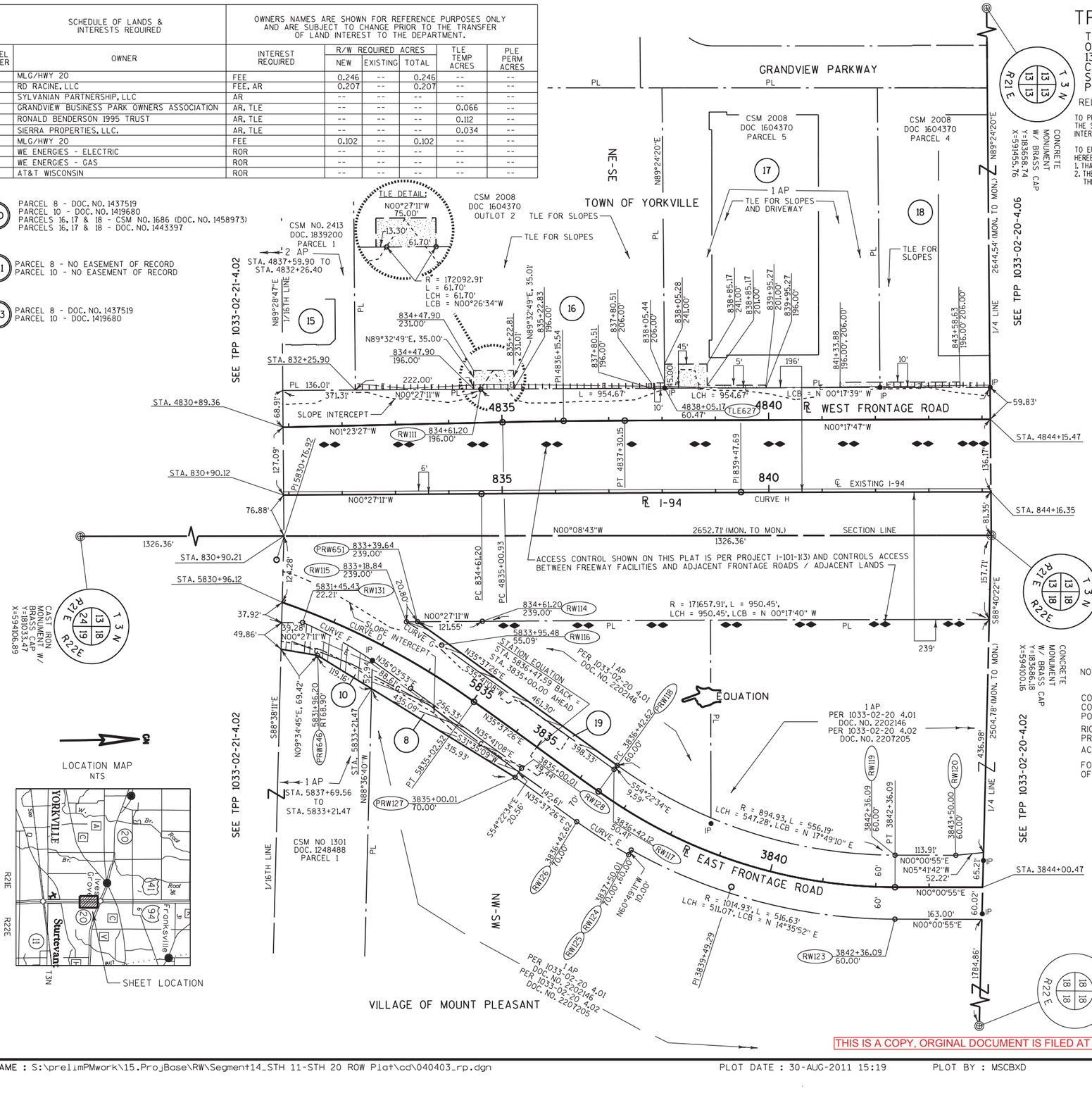
TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

SCHEDULE OF LANDS & INTERESTS REQUIRED		OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.					
			R/W REQUIRED ACRES				
PARCEL NUMBER	OWNER	INTEREST REQUIRED	NEW	EXISTING	TOTAL	TLE TEMP ACRES	PLE PERM ACRES
8	MLG/HWY 20	FEE	0.246	--	0.246	--	--
10	RD RACINE, LLC	FEE, AR	0.207	--	0.207	--	--
15	SYLVANIAN PARTNERSHIP, LLC	AR	--	--	--	--	--
16	GRANDVIEW BUSINESS PARK OWNERS ASSOCIATION	AR, TLE	--	--	--	0.066	--
17	RONALD BENDERSON 1995 TRUST	AR, TLE	--	--	--	0.112	--
18	SIERRA PROPERTIES, LLC.	AR, TLE	--	--	--	0.034	--
19	MLG/HWY 20	FEE	0.102	--	0.102	--	--
100	WE ENERGIES - ELECTRIC	ROR	--	--	--	--	--
101	WE ENERGIES - GAS	ROR	--	--	--	--	--
103	AT&T WISCONSIN	ROR	--	--	--	--	--

100 PARCEL 8 - DOC. NO. 1437519
PARCEL 10 - DOC. NO. 1419680
PARCELS 16, 17 & 18 - CSM NO. 1686 (DOC. NO. 1458973)
PARCELS 16, 17 & 18 - DOC. NO. 1443397

101 PARCEL 8 - NO EASEMENT OF RECORD
PARCEL 10 - NO EASEMENT OF RECORD

103 PARCEL 8 - DOC. NO. 1437519
PARCEL 10 - DOC. NO. 1419680



HWY	BASIS OF EXISTING R/W	YEAR	WIDTH
I-94	I 101-1(3)	1956	VARIES
EAST FRONTAGE ROAD	1032-06-29	1989	VARIES
EAST FRONTAGE ROAD	1033-02-20	2009	VARIES
--			

CURVE D
L 406.40'
R 1400.00'
LCH 404.98'
LCB S 27°18'27" W

CURVE E
R 1024.93'
L 115.26'
LCH 115.20'
LCB N 32°24'07" E

CURVE F
R 800.00'
L 149.12'
LCH 148.90'
LCB N 28°33'42" E

CURVE G
R 991.85'
L 79.36'
LCH 79.34'
LCB N 33°23'35" E

CURVE H
R 17188I.34
L 955.15
LCH 955.15'
LCB N 00°17'38" W

I-94
PI STA. = 839+47.69
Y = 183216.67
X = 594019.87
PC STA = 834+61.20
PT STA. = 844+34.17
DELTA = 00°19'28"
D = 00°02'00"
L = 972.97'
R = 171881.34'
LCH = 972.97'
LCB = N 00°17'27" W

WEST FRONTAGE ROAD
PI STA. = 4836+15.54
Y = 182884.00
X = 593886.79
PC STA = 4835+00.93
PT STA. = 4837+30.15
DELTA = 01°05'40"
D = 00°28'039"
L = 229.22'
R = 12000.00'
LCH = 229.22'
LCB = N 00°50'37" W

EAST FRONTAGE ROAD
PI STA. = 5830+76.92
Y = 182346.11
X = 594148.00
PC STA = 5826+21.00
PT STA. = 5835+02.52
DELTA = 36°04'37"
D = 36°04'37"
L = 881.52'
R = 1400.00
LCH = 881.52'
LCB = N 17°35'07" E

EAST FRONTAGE ROAD
PI STA. = 3839+49.29
Y = 183199.84
X = 594759.75
PC STA = 3836+42.62
PT STA. = 3842+36.09
DELTA = 35°36'31"
D = 06°00'00"
L = 593.47'
R = 954.93'
LCH = 583.97'
LCB = N 17°49'10" E

NOTES:

COORDINATES AND BEARINGS ON THE PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, RACINE COUNTY, NAD 1983 (1997) ADJUSTMENT. ALL DISTANCES ARE GROUND LENGTH AND ARE REFERENCED TO GPS HARN POINTS PARIS E, YORKVILLE E AND RAYMOND S.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY WISCONSIN DOT SOUTHEAST REGION SURVEY.

ACCESS CONTROL ALONG WESTERLY RIGHT-OF-WAY LINE OF IH 94 / USH 41 IS PER PROJECT I-101-1(3)

FOR THE LATEST ACCESS / DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF DOCUMENT 2292200, OF TRANSPORTATION PROJECT PLATS IN THE RACINE COUNTY REGISTER OF DEEDS.

LOCATION MAP
NTS

BRIAN M. DODGE S-2848 WAUKESHA, WI
WISCONSIN LAND SURVEYOR

Milwaukee Transportation Partners LLC

I, BRIAN M. DODGE, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 101033-02-21- 4.03 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE 08/30/2011 (SIGNATURE) Brian M. Dodge
BRIAN M. DODGE
AGENT FOR MILWAUKEE TRANSPORTATION PARTNERS, LLC
R.L.S. NUMBER 2848

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION SOUTHEAST REGION.

DATE 8-31-2011 (SIGNATURE) O.E. Andersen
(PRINTED NAME) Craig Andersen

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1033-02-21 4.03
AMENDMENT NO:

DOCUMENT # 2294367
RACINE COUNTY REGISTER OF DEEDS
September 15, 2011 12:00 PM
TYSON FETTES
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: $30.00
Pages: 1
Vol 1 Pg 198

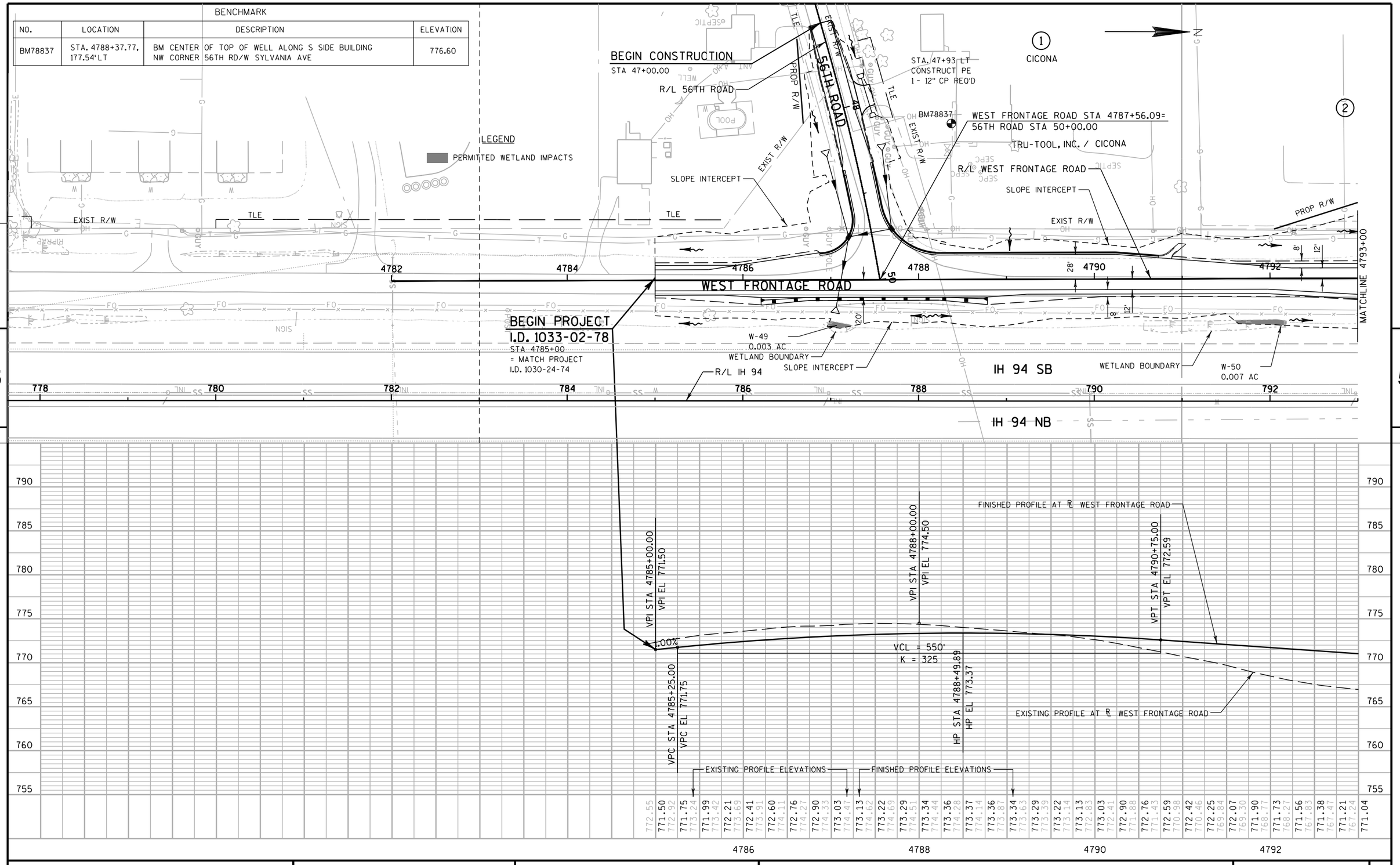
THIS IS A COPY, ORGINAL DOCUMENT IS FILED AT THE RACINE COUNTY

FILE NAME : S:\prelimPMwork\15.ProjBase\RW\Segment14_STH 11-STH 20 ROW Plat\cd\040403_rp.dgn PLOT DATE : 30-AUG-2011 15:19 PLOT BY : MSCBXD PLOT NAME : PLOT SCALE : 100:1

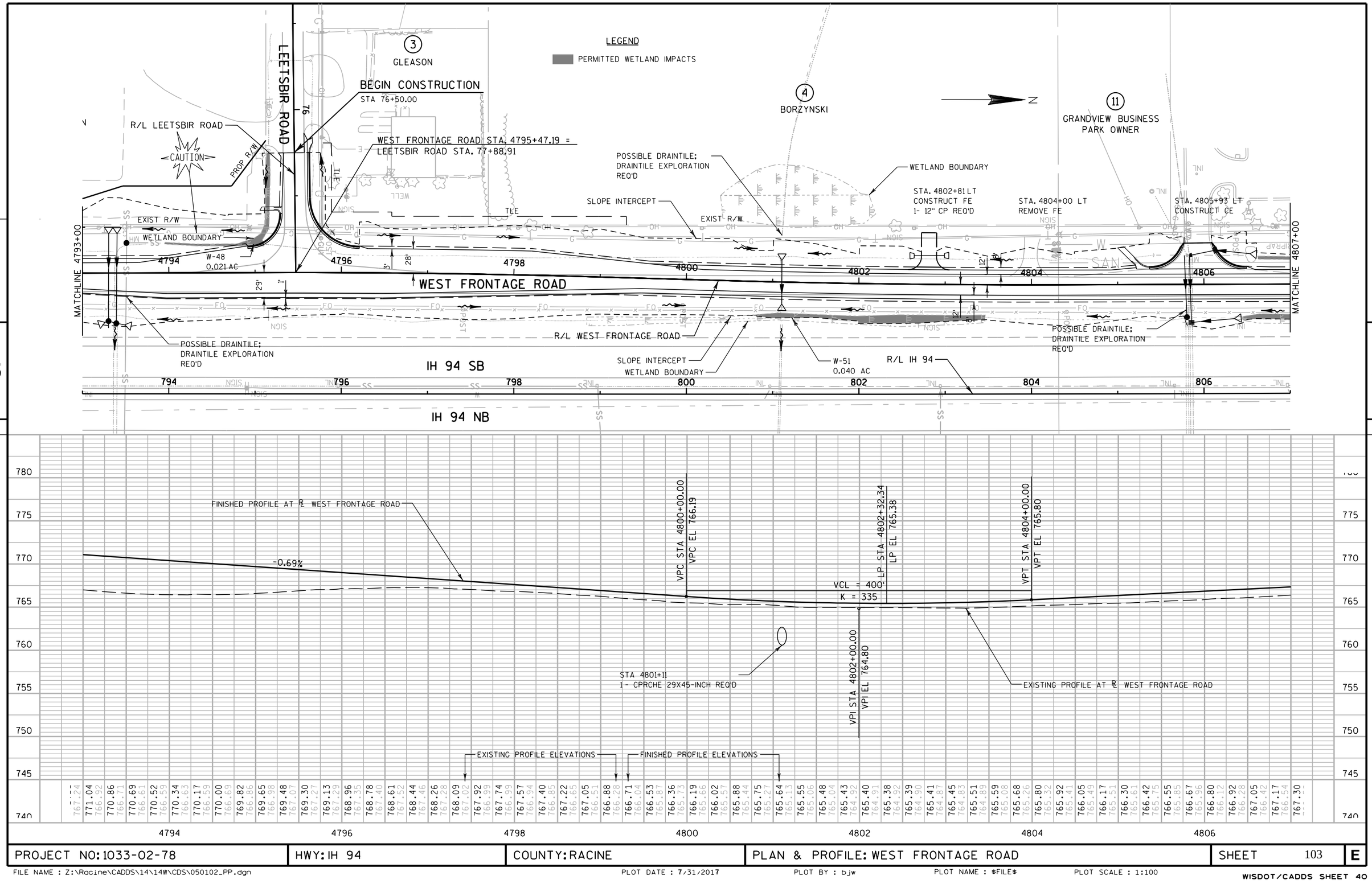
CONST. 1033-02-77/78/79 I-94 R/W 1033- 101 .03

BENCHMARK

NO.	LOCATION	DESCRIPTION	ELEVATION
BM78837	STA. 4788+37.77, 177.54'LT	BM CENTER OF TOP OF WELL ALONG S SIDE BUILDING NW CORNER 56TH RD/W SYLVANIA AVE	776.60



PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	PLAN & PROFILE: WEST FRONTAGE ROAD	SHEET 102	E



PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	PLAN & PROFILE: WEST FRONTAGE ROAD	SHEET 103	E

FILE NAME : Z:\Racine\CADDS\14\14W\CDS\050102_PP.dgn PLOT DATE : 7/31/2017 PLOT BY : bjw PLOT NAME : $FILE$ PLOT SCALE : 1:100

LEGEND

PERMITTED WETLAND IMPACTS

N

(12) GRANDVIEW INTERSTATE CENTER ON

CENTERPOINT WISPARK LAND COMPANY, LLC

(13) CENTERPOINT WISPARK LAND COMPANY, LLC

ENCROACHMENT SPRINKLER SYSTEM

SLOPE INTERCEPT

STA. 4813+02 LT CONSTRUCT CE

STA. 4816+40 LT CONSTRUCT FE

CAUTION

EXIST R/W

EXIST R/W

W-52 0.004 AC

MATCHLINE 4807+00

MATCHLINE 4821+00

4808 4810 4812 4814 4816 4818 4820

WEST FRONTAGE ROAD

12" 8"

12" 8"

WETLAND BOUNDARY

SLOPE INTERCEPT

W-54 0.073 AC

W-53 0.091 AC

R/L WEST FRONTAGE ROAD

WETLAND BOUNDARY

R/L IH 94

IH 94 SB

808 810 812 814 816 818 820

IH 94 NB

785 780 775 770 765 760 755 750

FINISHED PROFILE AT ℄ WEST FRONTAGE ROAD

VPI STA 4816+25.00
VPI EL 771.92

VPT STA 4818+25.00
VPT EL 770.32

VPC STA 4820+50.00
VPC EL 768.52

0.50%

VCL = 400'
K = 308

-0.80%

VPC STA 4814+25.00
VPC EL 770.92

HP STA 4815+78.85
HP EL 771.31

EXISTING PROFILE AT ℄ WEST FRONTAGE ROAD

EXISTING PROFILE ELEVATIONS

FINISHED PROFILE ELEVATIONS

766.54 767.30 766.58 767.42 766.69 767.55 766.73 767.67 766.79 767.80 766.93 767.92 767.03 768.05 767.39 768.17 767.56 768.30 767.67 768.42 767.77 768.55 767.90 768.67 768.07 768.80 768.15 768.92 768.27 769.05 768.35 769.17 768.43 769.30 768.53 769.42 768.72 769.55 768.93 769.67 768.98 769.80 768.99 769.92 769.08 770.05 769.14 770.17 769.16 770.30 769.27 770.42 769.29 770.55 769.48 770.67 769.66 770.80 769.88 770.92 770.01 771.04 770.17 771.13 770.30 771.21 770.44 771.26 770.54 771.30 770.69 771.31 770.68 771.30 770.74 771.27 770.72 771.23 770.74 771.16 770.70 771.07 770.69 770.96 770.69 770.83 770.50 770.68 770.35 770.51 770.25 770.32 770.13 770.12 769.85 769.92 769.66 769.72 769.55 769.52 769.37 769.32 769.17 769.12 769.00 768.92 768.91 768.72 768.73 768.52 768.68 768.34 768.55 768.17

4808 4810 4812 4814 4816 4818 4820

PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	PLAN & PROFILE: WEST FRONTAGE ROAD	SHEET 104	E

FILE NAME : Z:\Racine\CADDS\14\14W\CDS\050103_PP.dgn PLOT DATE : 7/31/2017 PLOT BY : bjw PLOT NAME : $FILE$ PLOT SCALE : 1:100

WISDOT/CADDS SHEET 40

BENCHMARK

NO.	LOCATION	DESCRIPTION	ELEVATION
BM83467	STA. 4834+67.81, 103.20' LT	BM CHIS SQ S END TOP WEIR DAM WALL W SIDE S SYLVANIA AVE	769.34

LEGEND

PERMITTED WETLAND IMPACTS

N

COASTAL CV9 LLC (14)

(15) SYLVANIA PARTNERSHIP, LLC

(16) GRANDVIEW BUS PARK OWNERS ASSOC.

PRIVATE DETENTION POND

GRANDVIEW PARKWAY

R/L GRANDVIEW PARKWAY

BEGIN CONSTRUCTION
STA 93+00.00

WEST FRONTAGE ROAD STA. 4822+95.99=
GRANDVIEW PKWY STA. 94+00.33

CAUTION

W-55
0.016 AC

SLOPE INTERCEPT

POSSIBLE DRAINTILE; DRAINTILE EXPLORATION REQ'D

WETLAND BOUNDARY

W-55
0.069 AC

APRON TO REMAIN GRADE AROUND OUTLET

EXIST R/W

STA. 4827+02 LT
CONSTRUCT CE

STA. 4827+88 LT
CONSTRUCT CE

SLOPE INTERCEPT

STA. 4832+06 LT
CONSTRUCT CE
1- 12" CP REQ'D

EXIST R/W

R/L WEST FRONTAGE ROAD

BM83467

TLE

W-56
0.087 AC

WETLAND BOUNDARY

MATCHLINE 4821+00

MATCHLINE 4835+00

WEST FRONTAGE ROAD

WETLAND BOUNDARY

POSSIBLE DRAINTILE; DRAINTILE EXPLORATION REQ'D

SLOPE INTERCEPT

IH 94 SB

IH 94 NB

R/L IH 94

LP STA 4822+65.38
LP EL 767.66

VPI STA 4822+25.00
VPI EL 767.12

VPT STA 4824+00.00
VPT EL 768.00

VPC STA 4826+75.00
VPC EL 769.37

VPI STA 4828+75.00
VPI EL 770.37

HP STA 4828+75.00
HP EL 769.87

VPT STA 4830+75.00
VPT EL 769.37

VPC STA 4833+50.00
VPC EL 768.00

EXISTING PROFILE AT ℄ WEST FRONTAGE ROAD

VCL = 350'
K = 269

0.50%

VCL = 400'
K = 400

0.50%

VCL = 400'
K = 393

FINISHED PROFILE AT ℄ WEST FRONTAGE ROAD

EXISTING PROFILE ELEVATIONS	FINISHED PROFILE ELEVATIONS
768.55	
768.17	768.15
768.03	767.91
767.91	767.64
767.82	767.44
767.74	767.34
767.69	767.21
767.67	767.17
767.67	767.17
767.69	767.22
767.73	767.30
767.80	767.47
767.89	767.62
768.00	767.90
768.12	768.30
768.25	768.44
768.37	768.52
768.50	768.71
768.62	768.86
768.75	769.07
768.87	769.26
769.00	769.39
769.12	769.49
769.25	769.56
769.37	769.71
769.49	769.96
769.59	770.21
769.68	770.41
769.75	770.53
769.80	770.62
769.84	770.63
769.87	770.64
769.87	770.61
769.87	770.54
769.84	770.45
769.80	770.41
769.75	770.29
769.68	770.13
769.59	770.04
769.49	769.85
769.37	769.69
769.25	769.46
769.12	769.47
769.00	769.38
768.87	769.36
768.75	769.25
768.62	769.01
768.50	768.85
768.37	768.70
768.25	768.56
768.12	768.48
768.00	768.42
767.88	768.26
767.78	768.29
767.70	768.24
767.63	768.32
767.57	768.34
767.54	

PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	PLAN & PROFILE: WEST FRONTAGE ROAD	SHEET 105	E

LEGEND

PERMITTED WETLAND IMPACTS

(17) ANDERSON 1995 TRUST

(18) SIERRA PROPERTIES LLC

PRIVATE DETENTION POND

WETLAND BOUNDARY

STA. 4838+47 LT
CONSTRUCT CE
1- 30" CP REQ'D

W-56
0.087 AC

W-57
0.135 AC

SLOPE INTERCEPT

TLE

EXIST R/W

R/L WEST FRONTAGE ROAD

WEST FRONTAGE ROAD

SB ON RAMP

MATCHLINE 4835+00

POSSIBLE DRAINTILE; DRAINTILE EXPLORATION REQ'D

R/L IH 94

IH 94 SB

IH 94 NB

END PROJECT
I.D. 1033-02-78
STA 4845+07.63
= MATCH PROJECT
I.D. 1033-02-74
(PREVIOUSLY CONSTRUCTED)

LP STA 4835+46.60
LP EL 767.51

VCL = 400'
K = 393

VPI STA 4835+50.00
VPI EL 767.00

VPT STA 4837+50.00
VPT EL 768.03

0.52%

EXISTING PROFILE AT ℄ WEST FRONTAGE ROAD

FINISHED PROFILE AT ℄ WEST FRONTAGE ROAD

VPC STA 4841+75.00
VPC EL 770.23

VCL = 300'
K = 585

VPI STA 4843+25.00
VPI EL 771.01

VPT STA 4844+75.00
VPT EL 772.56

0.45%

1.03%

VPI STA 4844+90.00
VPI EL 772.71

VPI STA 4845+07.63
VPI EL 772.79

EXISTING PROFILE ELEVATIONS

FINISHED PROFILE ELEVATIONS

4836	4838	4840	4842	4844
767.54 / 768.15	769.46 / 769.89	770.10 / 770.65	771.01 / 771.53	772.30 / 772.53
767.51 / 768.04	769.59 / 770.13	770.23 / 770.76	771.20 / 771.73	772.56
767.51 / 768.05	769.72 / 770.36	770.37 / 770.97	771.40 / 771.92	
767.52 / 768.18	769.85 / 770.50	770.51 / 771.09	771.61 / 772.04	
767.54 / 768.28	769.97 / 770.63	770.67 / 771.23	771.83 / 772.18	
767.59 / 768.45		770.84 / 771.35	772.06 / 772.35	
767.64 / 768.50		771.01 / 771.53		
767.72 / 768.64		771.20 / 771.73		
767.81 / 768.67		771.40 / 771.92		
767.91 / 768.74		771.61 / 772.04		
768.03 / 768.72		771.83 / 772.18		
768.16 / 768.88		772.06 / 772.35		
768.29 / 769.15				
768.42 / 769.29				
768.55 / 769.30				
768.68 / 769.43				
768.81 / 769.54				
768.94 / 769.66				
769.07 / 769.64				
769.20 / 769.74				
769.33 / 769.78				

PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	PLAN & PROFILE: WEST FRONTAGE ROAD	SHEET 106	E

FILE NAME : Z:\Racine\CADDS\14\14W\CDS\050105_PP.dgn | PLOT DATE : 7/31/2017 | PLOT BY : bjw | PLOT NAME : $FILE$ | PLOT SCALE : 1:100

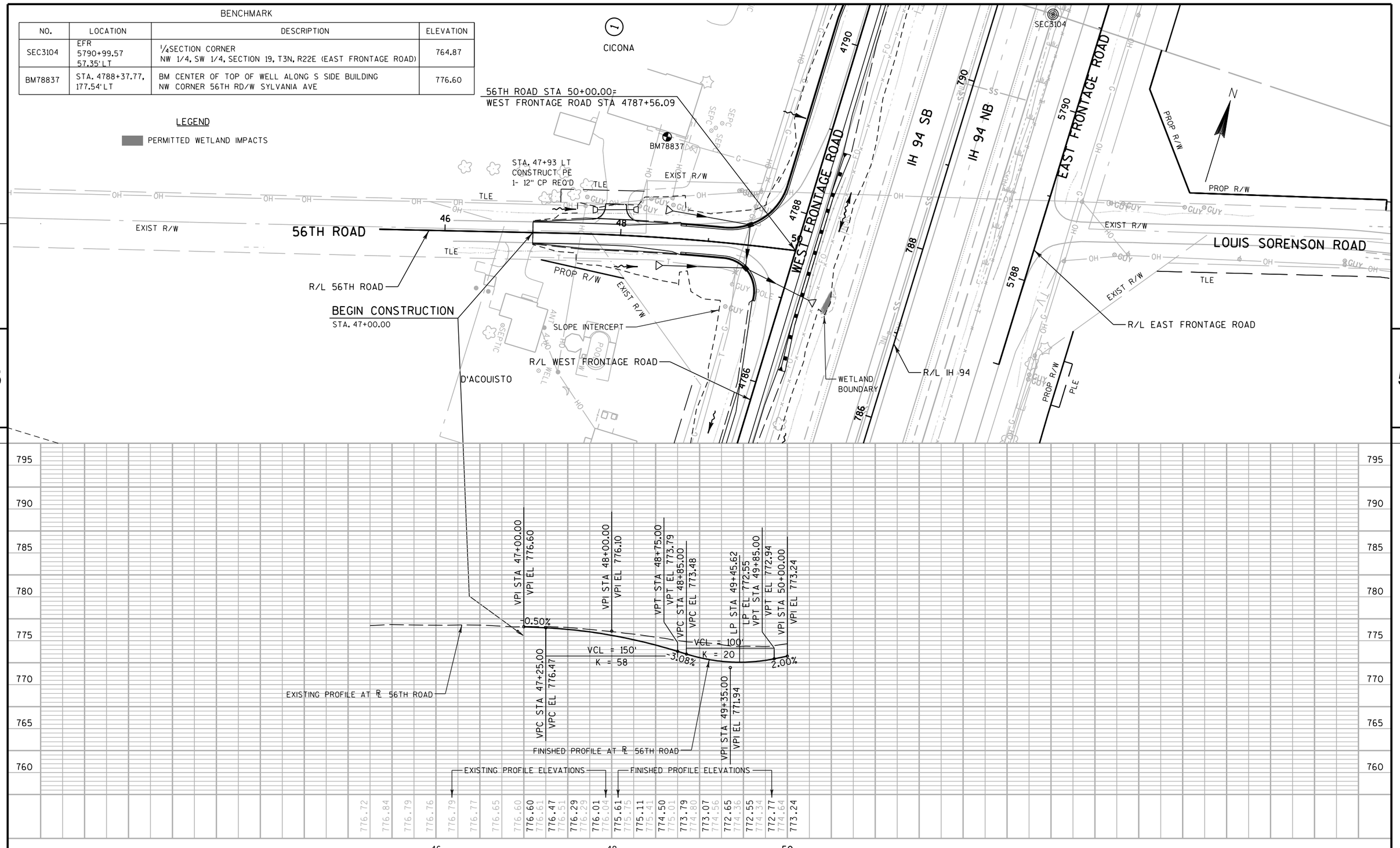
WISDOT/CADDS SHEET 40

BENCHMARK

NO.	LOCATION	DESCRIPTION	ELEVATION
SEC3104	EFR 5790+99.57 57.35' LT	1/4 SECTION CORNER NW 1/4, SW 1/4, SECTION 19, T3N, R22E (EAST FRONTAGE ROAD)	764.87
BM78837	STA. 4788+37.77, 177.54' LT	BM CENTER OF TOP OF WELL ALONG S SIDE BUILDING NW CORNER 56TH RD/W SYLVANIA AVE	776.60

LEGEND

PERMITTED WETLAND IMPACTS



PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	PLAN & PROFILE: 56TH ROAD	SHEET 107	E

LEGEND

PERMITTED WETLAND IMPACTS

R/L WEST FRONTAGE ROAD

GLEASON ③

TLE

EXIST R/W

LEETSBIR ROAD

76

EXIST R/W

R/L LEETSBIR ROAD

BEGIN CONSTRUCTION

STA. 76+50.00

LEETSBIR ROAD STA. 77+88.91=
WEST FRONTAGE ROAD STA. 4795+47.19

WETLAND BOUNDARY

SLOPE INTERCEPT

POSSIBLE DRAINTILE:
DRAINTILE EXPLORATION
REQ'D

GLEASON ②

PROP R/W

EXIST R/W

4796

4794

WEST FRONTAGE ROAD

IH 94 SB

IH 94 NB

796

794

R/L IH 94

5796

5794

EAST FRONTAGE ROAD

EXIST R/W

PROP R/W

R/L EAST FRONTAGE ROAD

⑤

N

5

5

BEGIN CONSTRUCTION

STA. 76+35.00

EXISTING PROFILE AT ℄ LEETSBIR ROAD

FINISHED PROFILE AT ℄ LEETSBIR ROAD

VPI STA 76+50.00
VPI EL 766.17

VPC STA 76+70.00
VPC EL 766.27

VPT STA 77+30.00
VPT EL 767.63

VPI STA 77+55.00
VPI EL 768.64

VPT STA 77+75.00
VPT EL 769.04

VPI STA 77+88.91
VPI EL 769.32

VCL = 60'
K = 17

4.0A%

2.00%

0.50%

VCL = 40'
K = 20

VPI STA 77+00.00
VPI EL 766.42

VPC STA 77+35.00
VPC EL 767.83

EXISTING PROFILE ELEVATIONS												FINISHED PROFILE ELEVATIONS											
765.71	765.75	765.89	765.96	765.97	766.10	766.16	766.17	766.17	766.27	766.30	766.40	766.69	766.60	767.44	766.87	768.38	767.01	769.04					

785 780 775 770 765 760 755 750

74 76 78

PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	PLAN & PROFILE: LEETSBIR ROAD	SHEET 108	E

FILE NAME : Z:\Racine\CADDS\14\14W\CDS\050107_PP.dgn PLOT DATE : 7/31/2017 PLOT BY : bjw PLOT NAME : $FILE$ PLOT SCALE : 1:100.004

WISDOT/CADDS SHEET 40

COASTAL CV9 LLC

CENTERPOINT WISPARK
LAND COMPANY, LLC

WETLAND BOUNDARY
W-55
0.068 AC

R/L WEST FRONTAGE ROAD

GRANDVIEW PKWY STA. 94+00.33=
WEST FRONTAGE ROAD STA. 4822+95.99

LEGEND

PERMITTED WETLAND IMPACTS

R/L GRANDVIEW PARKWAY

EXIST R/W

GRANDVIEW PARKWAY

BEGIN CONSTRUCTION
STA. 93+00.00

W-55
0.016 AC

SLOPE INTERCEPT

POSSIBLE DRAINTILE:
DRAINTILE EXPLORATION
REQ'D

WETLAND BOUNDARY

WEST FRONTAGE ROAD

IH 94 SB

IH 94 NB

R/L IH 94

EAST FRONTAGE ROAD

HOODS CREEK
INTERMITTENT STREAM CROSSING

WETLAND BOUNDARY

(8)

R/L EAST FRONTAGE ROAD

N

BEGIN CONSTRUCTION
STA 93+00.00

VPC STA 93+00.00
VPC EL 767.10
LP STA 93+28.89
LP EL 767.02
VPT STA 93+80.00
VPT EL 767.27
VPI STA 94+00.33
VPI EL 767.68

VCL = 80'
K = 51

1.00%
2.00%

EXISTING PROFILE AT ℄ GRANDVIEW PARKWAY

VPI STA 93+40.00
VPI EL 766.87

FINISHED PROFILE AT ℄ GRANDVIEW PARKWAY

FINISHED PROFILE ELEVATIONS

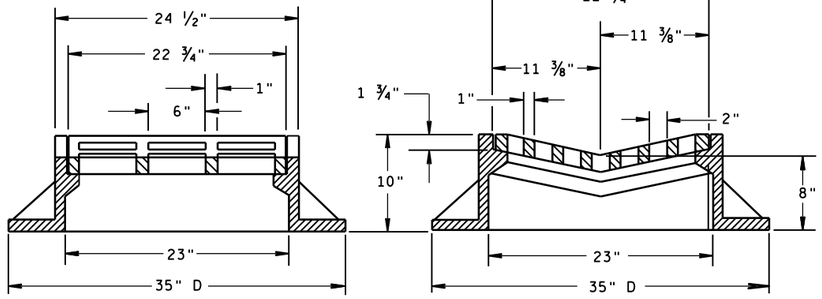
EXISTING PROFILE ELEVATIONS

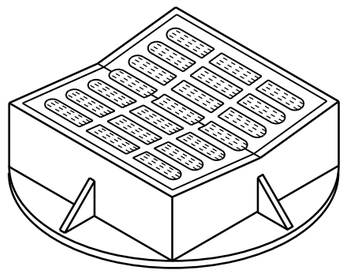
| | | |

Standard Detail Drawing List

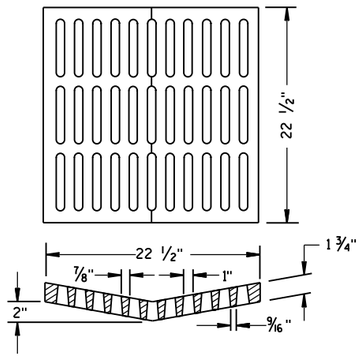
08A05-19B	INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM
08A05-19C	INLET COVERS TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S
08A05-19D	INLET COVER TYPE BW, MANHOLE COVERS, TYPE K, J, J-S, L & M
08B09-02	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER
08C07-02	INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT
08C08-02	INLETS MEDIAN 1 AND 2 GRATE
08D01-19	CONCRETE CURB, CONCRETE CURB AND GUTTER AND TIES
08D04-05	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08D15-05A	EDGEDRAIN OUTLET AND OUTFALL MARKERS
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08E14-01	TRACKING PAD
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F02-01	APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
08F07-05	STEEL APRON ENDWALLS FOR CULVERT PIPE AND PIPE ARCH SLOPED SIDE FRAINS
08F10-01	CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH
09A01-13A	AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND D AND TEE INTERSECTION BYPASS LANE
14B15-09A	STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION & ELEMENTS
14B15-09B	STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION & ELEMENTS
14B15-09C	STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS
14B18-06A	STEEL PLATE BEAM GUARD, CLASS "A" (AT BRIDGES, OBSTACLES AND SIDEROADS/DRIVEWAYS)
14B20-11A	STEEL THRIE BEAM STRUCTURE APPROACH
14B24-08A	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
14B24-08B	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
14B24-08C	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
14B28-03	GUARDRAIL MOW STRIP
14B42-04A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-04B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-04C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B43-03A	MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L)
14B43-03B	MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L)
14B43-03C	MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L)
14B44-02A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-02B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-02C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15B01-08A	FENCE WOVEN WIRE
15B01-08B	FENCE WOVEN WIRE
15C02-06A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C03-03	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C07-13B	PAVEMENT MARKING WORDS
15C07-13C	PAVEMENT MARKING ARROWS
15C08-17A	LONGITUDINAL MARKING (MAINLINE)
15C08-17B	PAVEMENT MARKING (TURN LANES)
15C12-04	TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
15C12-05	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C29-04A	BICYCLE LANE MARKING
15C33-02	STOP LINE AND CROSSWALK PAVEMENT MARKING
15D29-04	TRAFFIC CONTROL, VEHICLE ENTRANCE/EXIT OR HAUL ROAD
15D38-01A	TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS
15D38-01B	ATTACHMENT OF SIGNS TO POSTS

6



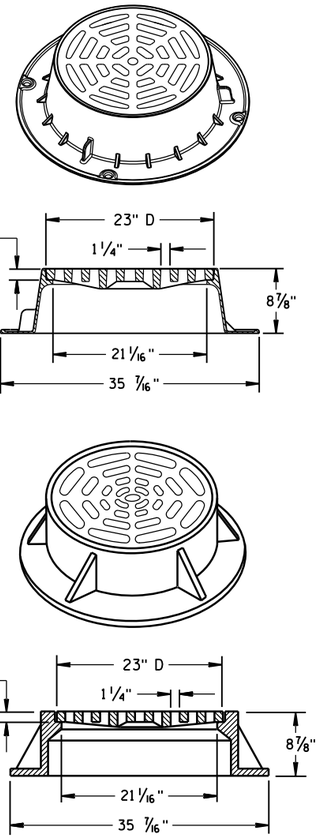


TYPE "B"



ALTERNATIVE GRATE FOR TYPE "B" COVER

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS POSSIBLE.
NOTED AS TYPE B-A ON THE DRAINAGE TABLE



TYPE "C"

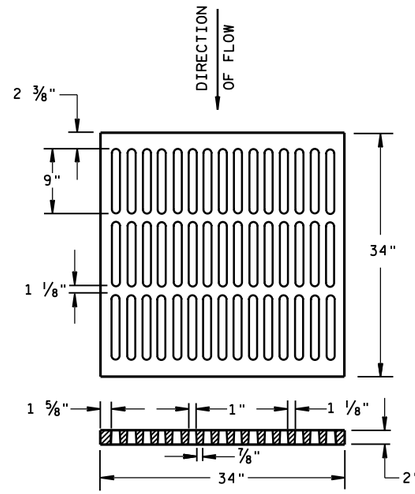
NOTE: EITHER CASTING IS ACCEPTABLE

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

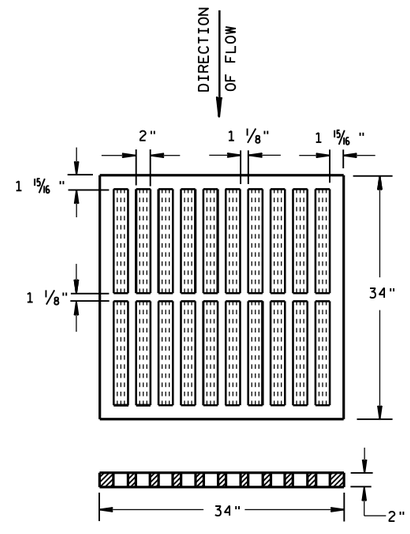
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.



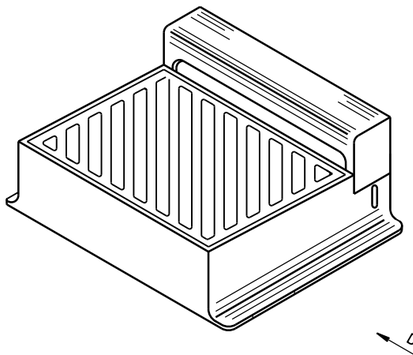
ALTERNATIVE TYPE "MS"

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS PERMITTED
NOTED AS TYPE MS-A ON THE DRAINAGE TABLE

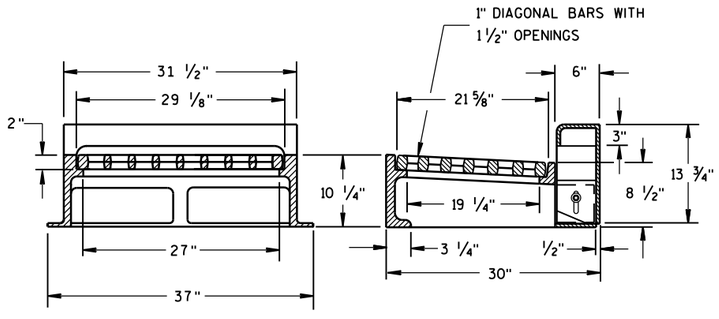


TYPE "MS"

USE ON FREEWAYS AND EXPRESSWAYS
NOTED AS TYPE MS ON DRAINAGE TABLE



DIAGONAL SLOTS, SHALL BE ORIENTED TO THE DIRECTION OF FLOW AS ILLUSTRATED. GRATES ARE MANUFACTURED TO BE REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

TYPE "WM"

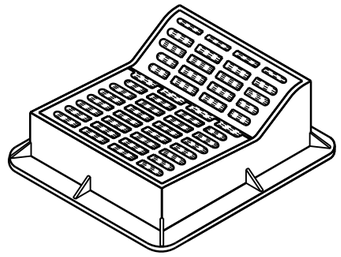
INLET COVERS
TYPE B, B-A, C, MS, MS-A, & WM

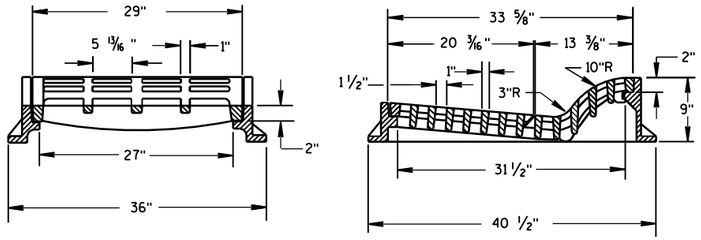
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

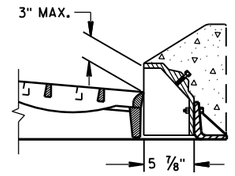
S.D.D. 8 A 5-19b





TYPE "F"

USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.



ALTERNATIVE CURB BOX FOR TYPE "HM" COVER

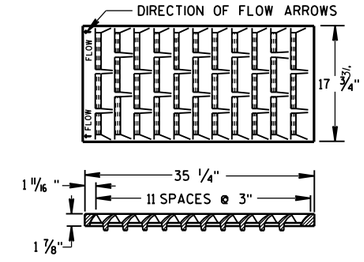
USE WITH TYPES G & J CONCRETE CURB & GUTTER, 30 INCH
NOTED AS TYPE HM-GJ ON DRAINAGE TABLE

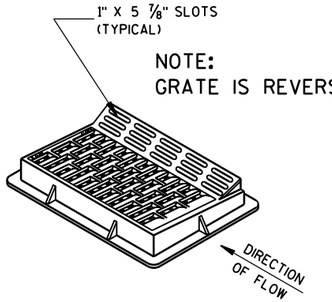
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM-GJ" COVER
NOTED AS TYPE HM-GJ-S ON DRAINAGE TABLE

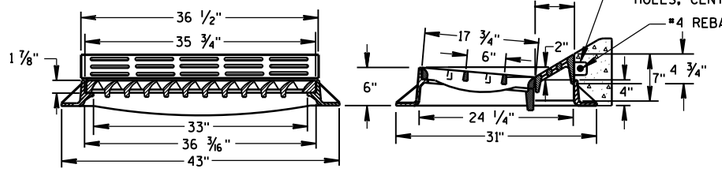
GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.



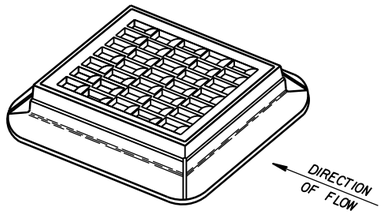


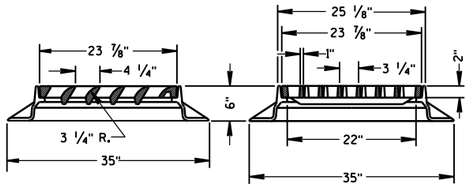


TYPE "HM"

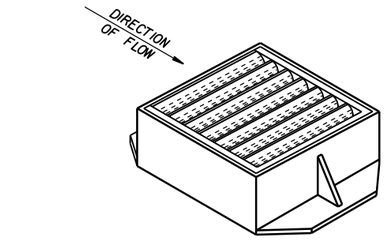
USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.

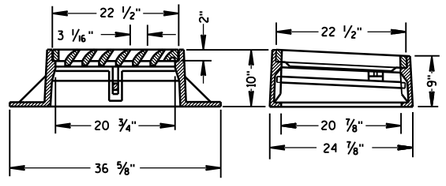
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM" COVER
NOTED AS TYPE HM-S ON DRAINAGE TABLE



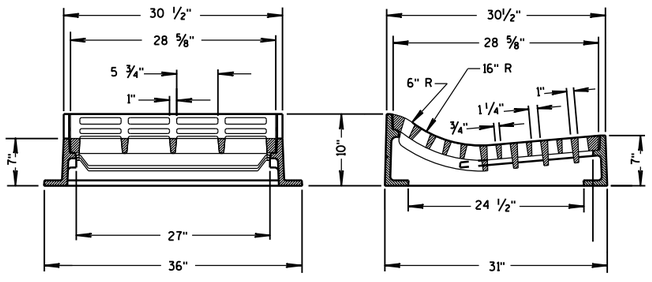


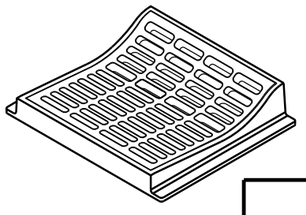
TYPE "S"





TYPE "V"





TYPE "T"

USE WITH TYPES R & T CONCRETE CURB & GUTTER, 36 INCH.

INLET COVERS
TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

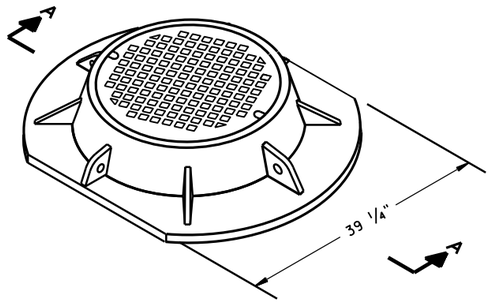
APPROVED
11/27/2013
DATE

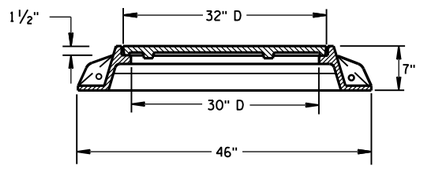
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

FHWA

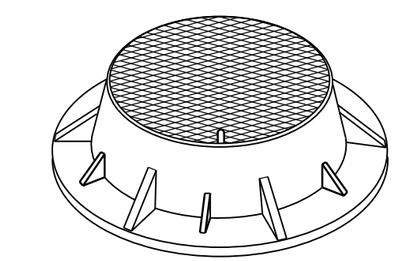
6

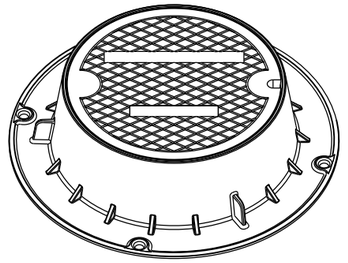
S.D.D. 8 A 5-19c

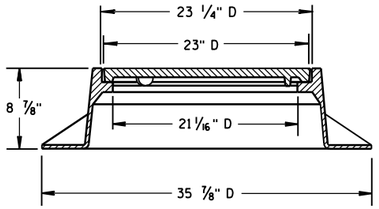


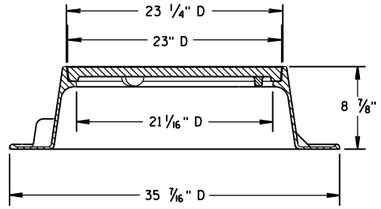


SECTION A-A
TYPE "K"









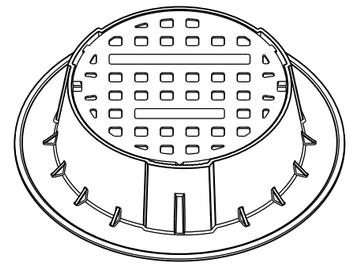
TYPE "J"
NOTE: EITHER CASTING IS ACCEPTABLE

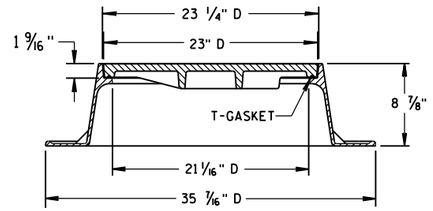
GENERAL NOTES

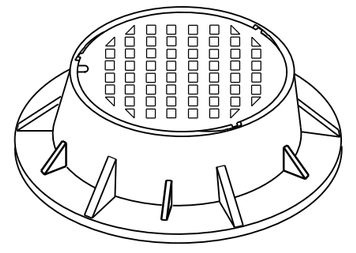
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

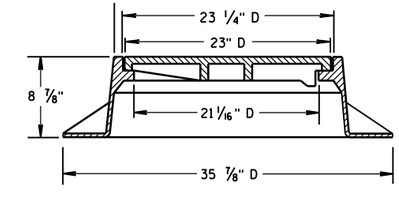
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR MANHOLE COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

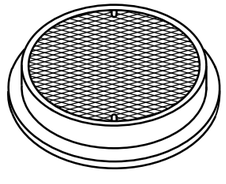


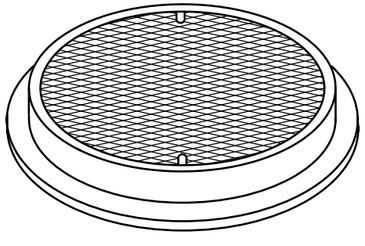


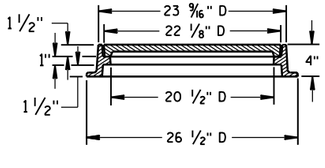




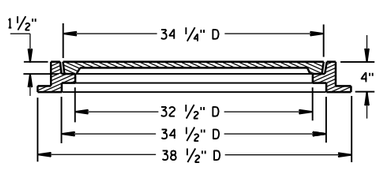
TYPE "J" SPECIAL
TYPE "B" NON-ROCKING SELF-SEAL LID
(NOTED AS TYPE J-S ON THE DRAINAGE TABLE)
NOTE: EITHER CASTING IS ACCEPTABLE



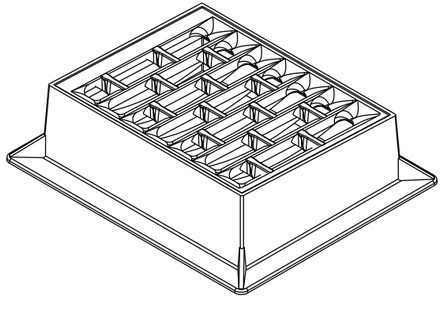


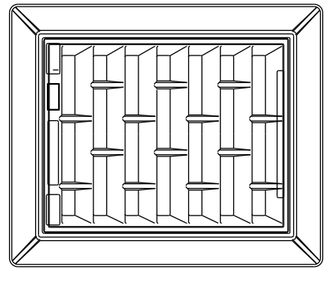


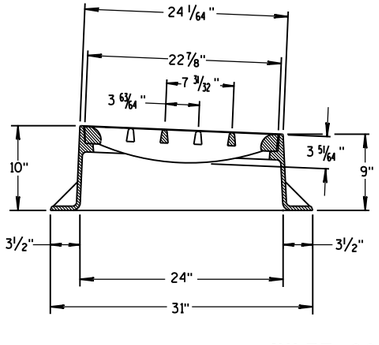
TYPE "L"

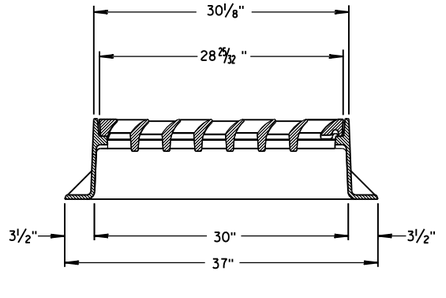


TYPE "M"









INLET COVER TYPE "BW"

INLET COVER TYPE BW
MANHOLE COVERS, TYPE K, J, J-S, L & M

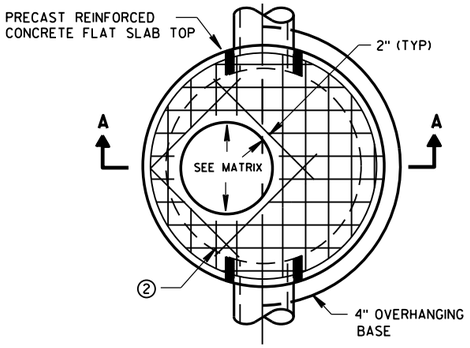
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013
DATE
FHWA

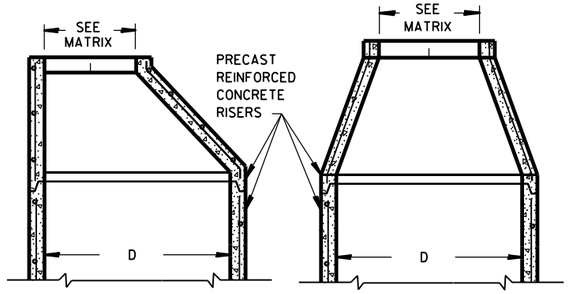
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

6

S.D.D. 8 A 5-19d

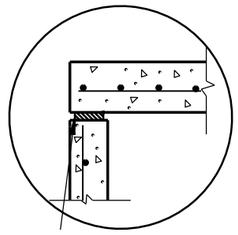


PLAN VIEW CIRCULAR OPENING

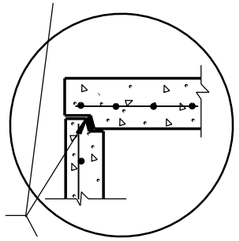


OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

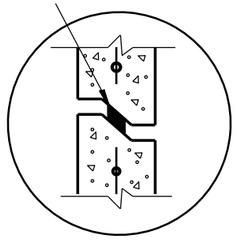


TOP WITH PLAIN END JOINT



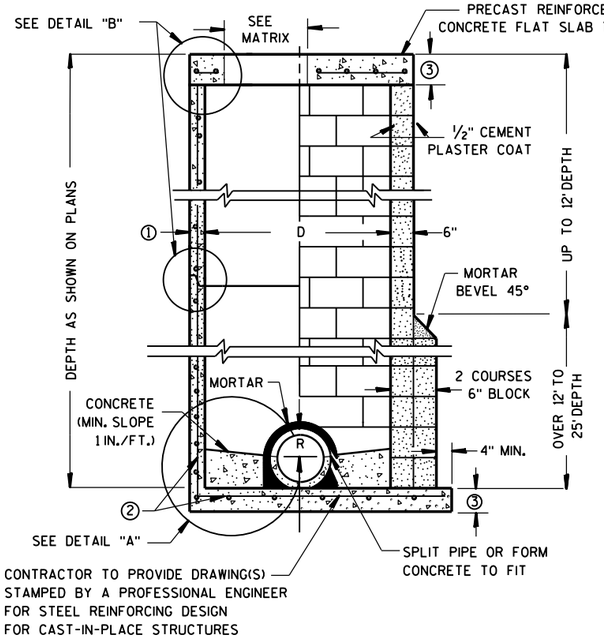
JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C990 (TYP)

TOP WITH TONGUE AND GROOVE JOINT



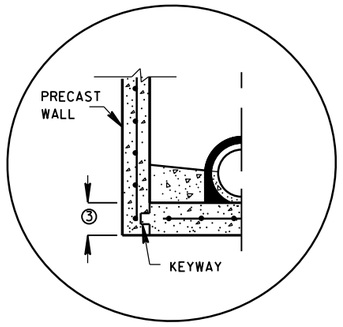
RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"

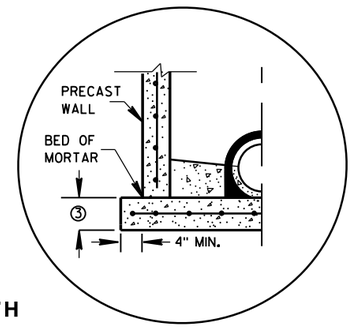


PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

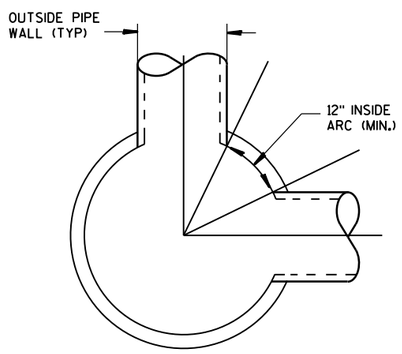


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "C"

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST MANHOLE UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES, AND CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 5 FEET OR LESS IN DEPTH, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

STEPS MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF ½" AND MEET THE REQUIREMENTS OF ASTM A615.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

CONCRETE BLOCK WILL NOT BE PERMITED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

ALL PRECAST MANHOLE UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT, 5 INCHES FOR 4-FT, 6 INCHES FOR 5-FT, 7 INCHES FOR 6-FT, 8 INCHES FOR 7-FT AND 9 INCHES FOR 8-FT DIAMETER PRECAST MANHOLES.

② FOR PRECAST MANHOLES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

③ PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER OF 48" AND LESS SHALL HAVE A MINIMUM THICKNESS OF 6". PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER LARGER THAN 48" SHALL HAVE A MINIMUM THICKNESS OF 8".

MANHOLE COVER OPENING MATRIX

MANHOLE COVER TYPE	C	ALL J'S	K	L	M
OPENING SIZE (FT)					
2 DIA.	X	X		X	
3 DIA.			X		X

PIPE MATRIX

MANHOLE SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18
5-FT	36	24
6-FT	42	36
7-FT	48	36
8-FT	60	42

MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

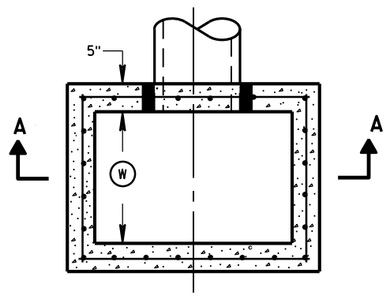
APPROVED

Sept., 2016
DATE

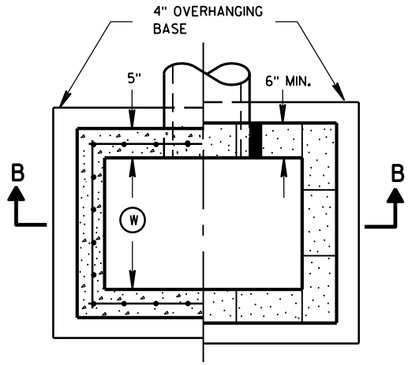
/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT
UNIT SUPERV

FHWA

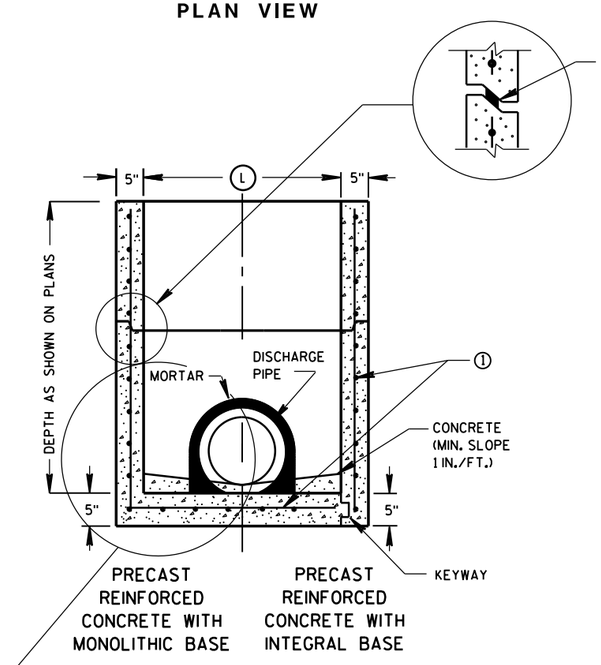
6
S.D.D. 8 B 9-2



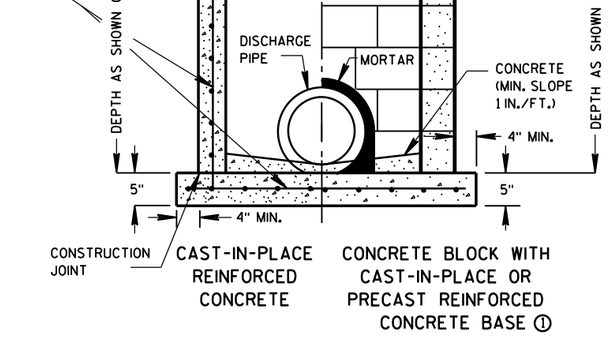
PLAN VIEW



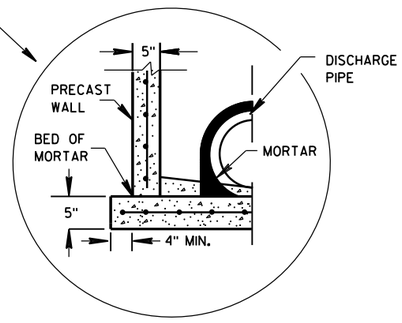
PLAN VIEW



SECTION A-A



SECTION B-B



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATES THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANGING BASES ARE REQUIRED FOR CAST-IN-PLACE REINFORCED CONCRETE AND CONCRETE BLOCK INSTALLATIONS.
4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED.
OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3 INCH CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

① FOR PRECAST INLETS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

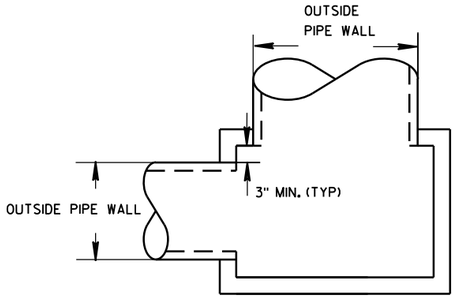
② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

INLET COVER MATRIX

INLET SIZE		INLET COVER TYPE	ALL A'S	ALL B'S	BW	F	ALL H'S	S	T	V	WM
	WIDTH Ⓦ (FT)	LENGTH Ⓛ (FT)									
2X2-FT	2	2	X	X				X		X	
2X2.5-FT	2	2.5			X			X	X	X	X
2X3-FT	2	3					X				
2.5X3-FT	2.5	3				X					

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER	
	WIDTH (IN)	LENGTH (IN)
2X2-FT	12	12
2X2.5-FT	12	18
2X3-FT	12	24
2.5X3-FT	18	24



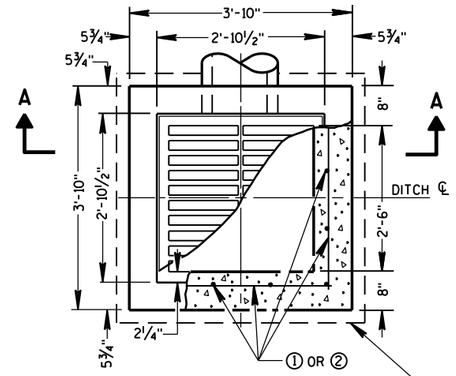
DETAIL "A"

INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

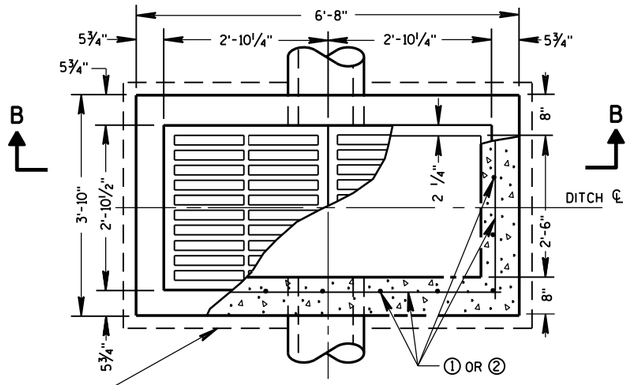
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2016
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS D IT
UNIT SUPERVIS
FHWA

INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

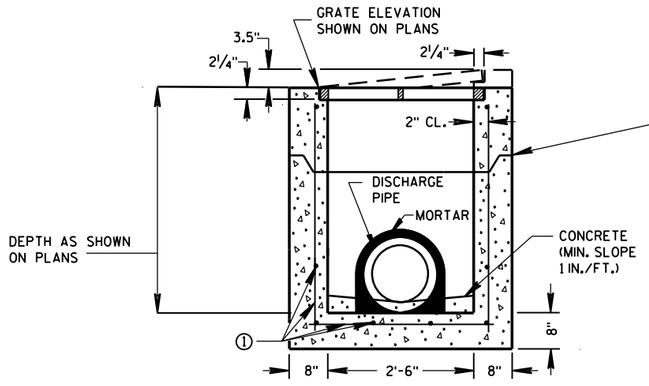


PLAN VIEW

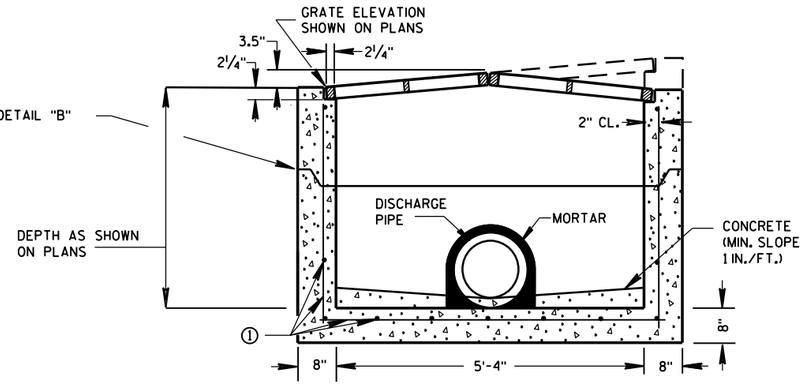


PLAN VIEW

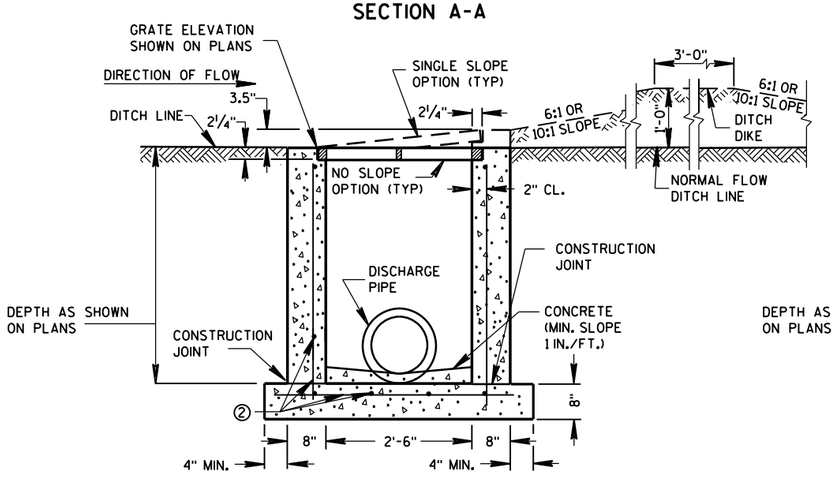
4" OVERHANGING BASE ON REINFORCED CAST-IN-PLACE CONCRETE INLETS



PRECAST REINFORCED CONCRETE SECTION A-A

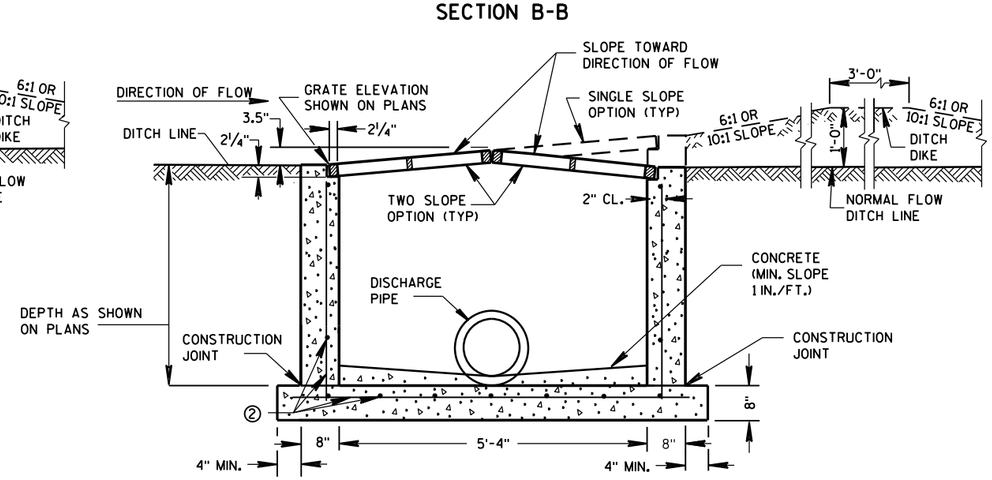


PRECAST REINFORCED CONCRETE SECTION B-B



REINFORCED CAST-IN-PLACE CONCRETE SECTION A-A

INLETS MEDIAN 1 GRATE



REINFORCED CAST-IN-PLACE CONCRETE SECTION B-B

INLETS MEDIAN 2 GRATE

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLETS WHICH MAY INCLUDE PRECAST REINFORCED CONCRETE INLETS, SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL MEDIAN INLETS ARE DESIGNATED ON THE PLANS AS "INLETS, 1G-MS", ETC. THE FIRST NUMBER AND LETTER DESIGNATE THE TYPE OF STRUCTURE, AND THE FOLLOWING LETTERS DESIGNATE THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

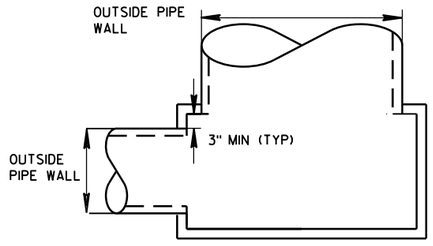
MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3" CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

① FOR PRECAST INLETS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

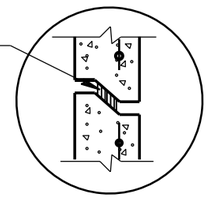
PIPE MATRIX

	MAXIMUM INSIDE PIPE DIAMETER	
INLET SIZE	WIDTH (IN)	LENGTH (IN)
1 GRATE	18	18
2 GRATE	18	42



DETAIL "A"

JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 (TYP)



DETAIL "B"

INLETS MEDIAN 1 AND 2 GRATE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2016 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS UNIT SUPERVI ENT
FHWA

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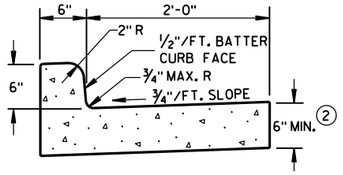
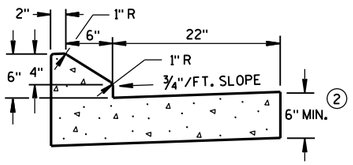
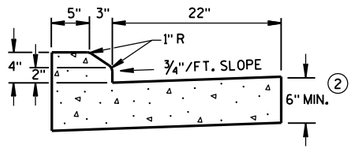
S.D.D. 8 C 8-2



TYPES A & D ①

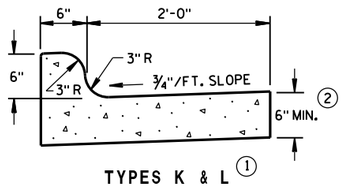


6" SLOPED CURB TYPES G & J ①

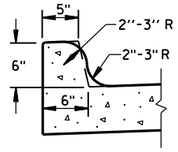


4" SLOPED CURB TYPES G & J ①

CONCRETE CURB & GUTTER 30"

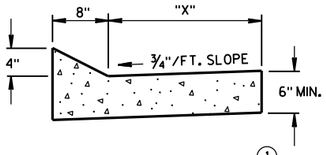


TYPES K & L ①



OPTIONAL CURB SHAPE FOR TYPES K & L ①

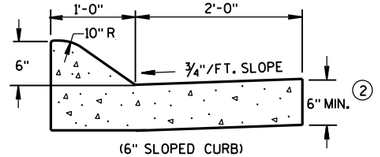
CONCRETE CURB & GUTTER 30"



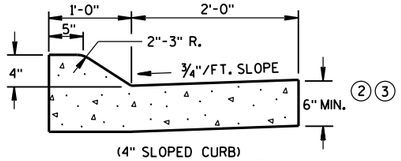
TYPES TBT & TBTT ①

CONCRETE CURB & GUTTER

TBT & TBTT	"X"
30"	22"
36"	28"

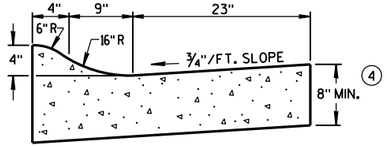


(6" SLOPED CURB)



(4" SLOPED CURB)

TYPES A & D ①



4" SLOPED CURB TYPES R & T ①⑤

CONCRETE CURB & GUTTER 36"

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

INTEGRAL CURB & GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB & GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE. A LONGITUDINAL CONSTRUCTION JOINT IS NOT REQUIRED WITH INTEGRAL CURB AND GUTTER.

WHERE THE TRANSVERSE JOINTS IN THE PAVEMENT ARE REQUIRED TO BE SEALED, THE JOINTS IN THE INTEGRAL CURB AND GUTTER SHALL BE SEALED TO THE FACE OF CURB WITH THE SAME TYPE OF SEALANT. THE COST OF FURNISHING AND INSTALLING THIS SEALANT SHALL BE INCIDENTAL TO THE ITEM CONCRETE CURB AND GUTTER.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2'-0" BEHIND THE BACK OF CURBS.

① TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K, R AND TBTT.

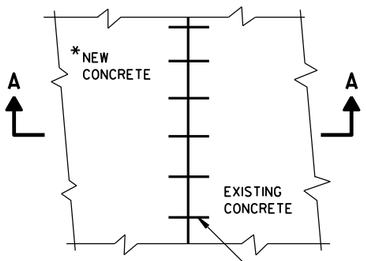
② THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

③ USE 8" MINIMUM GUTTER THICKNESS WHEN USED WITH AN ADJACENT CONCRETE TRUCK APRON PLACED BEHIND BACK OF CURB.

④ THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.

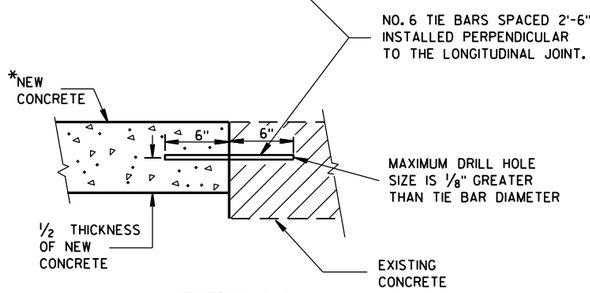
⑤ THE FACE OF CURB IS 6" FROM THE BACK OF CURB.

⑥ WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.



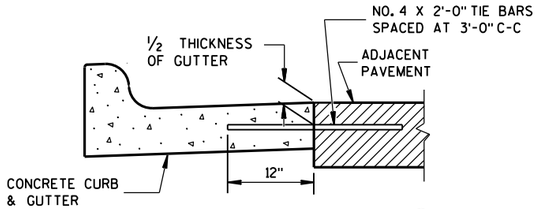
PLAN VIEW

*NEW CURB & GUTTER, SURFACE DRAINS, CONCRETE PAVEMENT OR OTHER NEW CONCRETE.

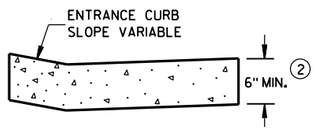


SECTION A-A

TIE BARS DRILLED INTO EXISTING PAVEMENT

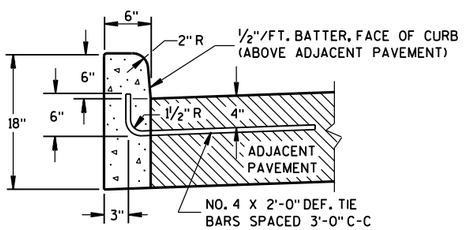


TYPICAL TIE BAR LOCATION ①

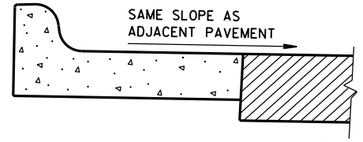


DRIVEWAY ENTRANCE CURB

(WHEN DIRECTED BY THE ENGINEER)

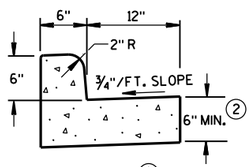


① TYPES A & D



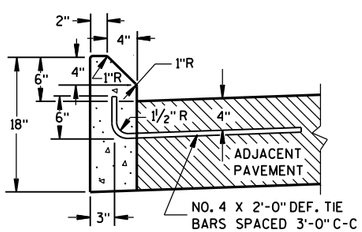
⑥ REVERSE SLOPE GUTTER

(TYPICAL FOR ALL CURB & GUTTER TYPES)



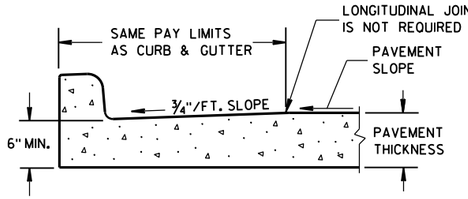
① TYPES A & D

CONCRETE CURB & GUTTER 18"

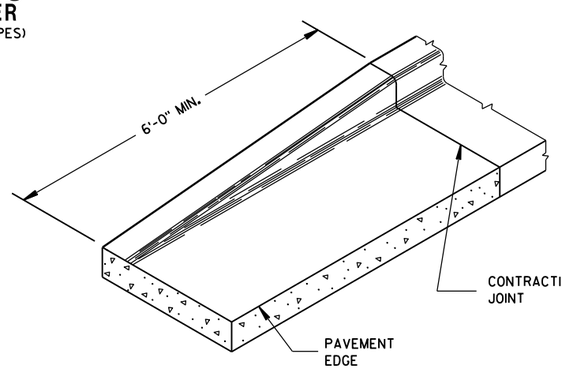


① TYPES G & J

CONCRETE CURB



PARTIAL SECTION OF PAVEMENT WITH INTEGRAL CURB & GUTTER



END SECTION CURB & GUTTER

CONCRETE CURB, CONCRETE CURB & GUTTER AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June, 2016 — DATE

/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA

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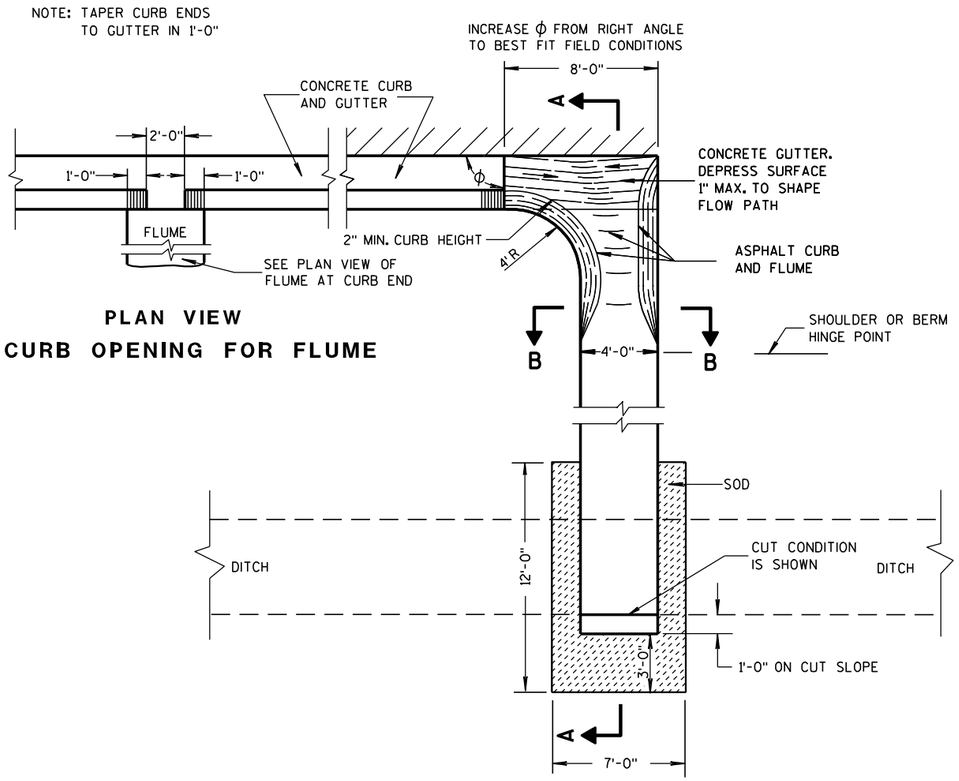
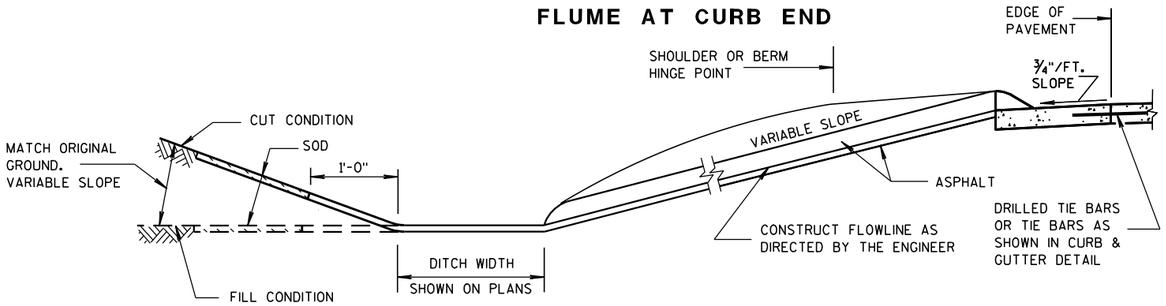
S.D.D. 8 D 1-19

ASPHALTIC FLUME

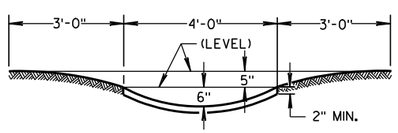


PLAN VIEW
CURB OPENING FOR FLUME

PLAN VIEW
FLUME AT CURB END



SECTION A-A



SECTION B-B

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

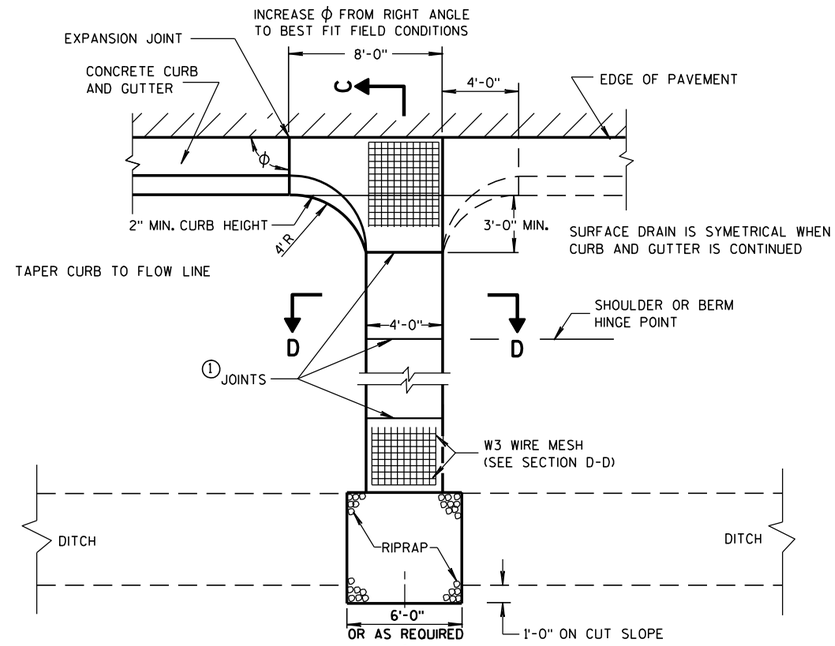
WELDED STEEL WIRE FABRIC SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

① JOINTS SHALL BE $\frac{1}{8}$ TO $\frac{1}{4}$ INCH WIDE BY $1\frac{1}{2}$ INCHES DEEP AND SPACED AT UNIFORM INTERVALS OF APPROXIMATELY 4 FEET.

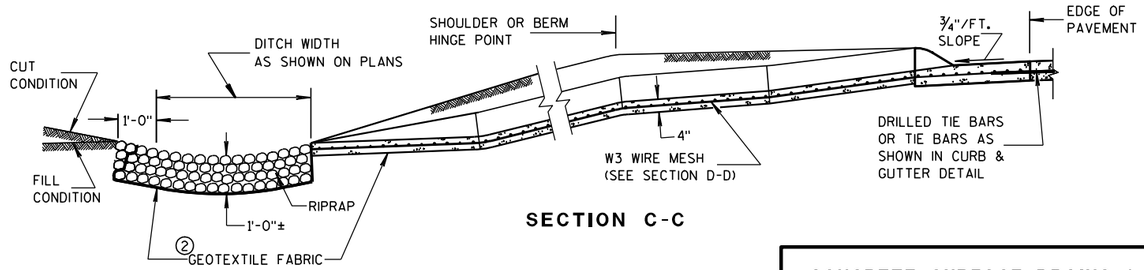
② GEOTEXTILE FABRIC TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.

③ CONCRETE SURFACE DRAIN WITHOUT CURB AND GUTTER MAY BE USED ON BACKSLOPES WHEN SPECIFIED

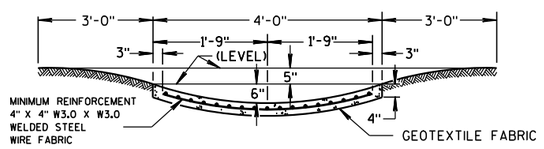
③ CONCRETE SURFACE DRAIN



PLAN VIEW



SECTION C-C



SECTION D-D

CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
9-4-08 DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER
MENT
FHWA

6

S.D.D. 8 D 4-5

6

S.D.D. 8 D 4-5

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(1) UNPERFORATED PIPE UNDERDRAIN AND FITTINGS FURNISHED FOR OUTFALL PIPE SHALL MEET THE REQUIREMENTS OF ONE OF THE FOLLOWING SPECIFICATIONS:

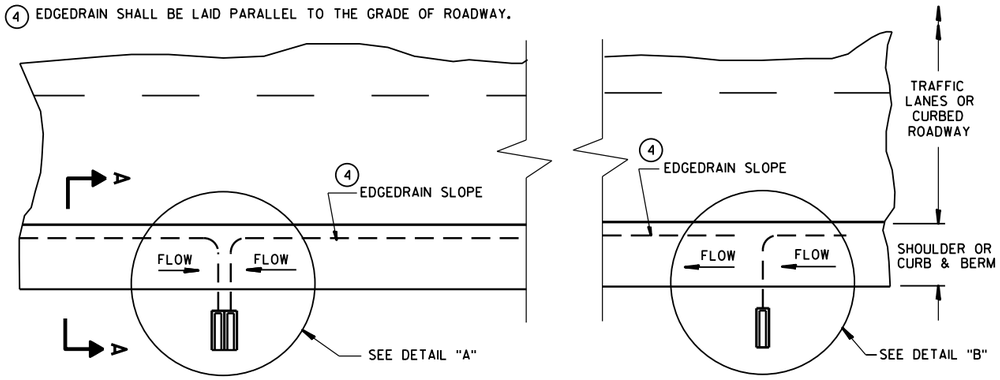
POLYVINYL CHLORIDE (PVC) PLASTIC DRAIN, WASTE, AND VENT PIPE AND FITTINGS, ASTM D 2665, SCHEDULE 40 PVC.

TYPE PSM POLYVINYL CHLORIDE (PVC) SEWER PIPE AND FITTINGS, ASTM D 3034, SDR 23.5 PVC SEWER PIPE.

(2) MAXIMUM SPACING OF EDGEDRAIN OUTLETS SHALL BE 250 FEET UNLESS OTHERWISE SPECIFIED IN THE CONTRACT OR DIRECTED BY THE ENGINEER.

(3) EDGEDRAIN SHALL BE CONNECTED TO INLETS REGARDLESS OF FLOW DIRECTION FOR DRAINAGE AND MAINTENANCE ACCESS.

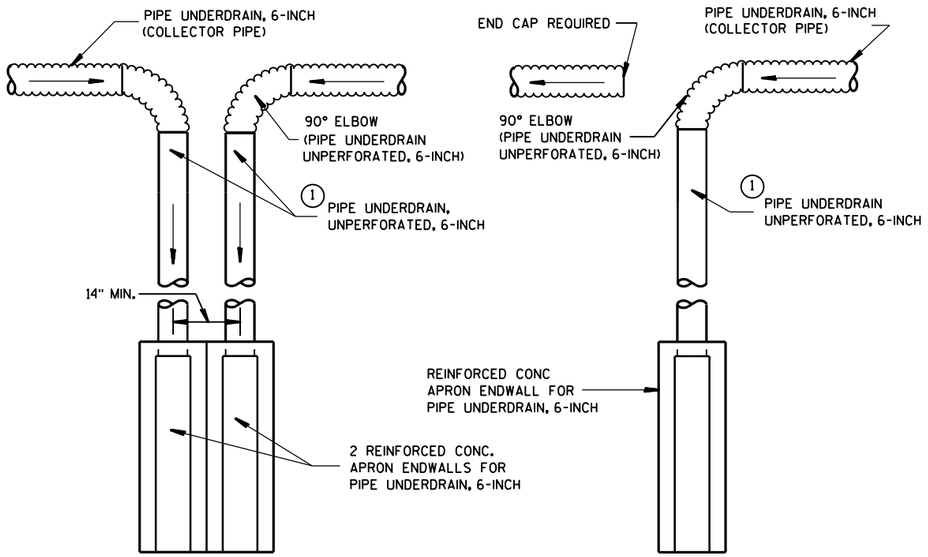
(4) EDGEDRAIN SHALL BE LAID PARALLEL TO THE GRADE OF ROADWAY.



PLAN VIEW

ROADWAY WITH SHOULDERS OR CURBS

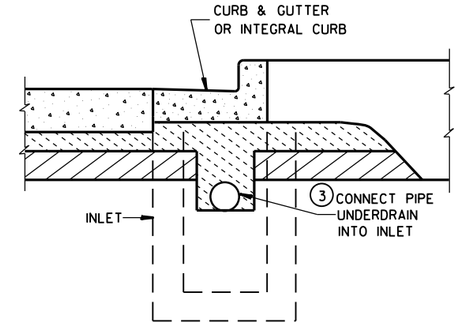
(EDGEDRAIN OUTLETS TO ROADSIDE)(2)



DETAIL "A"
TO BE USED AT LOW POINT LOCATIONS

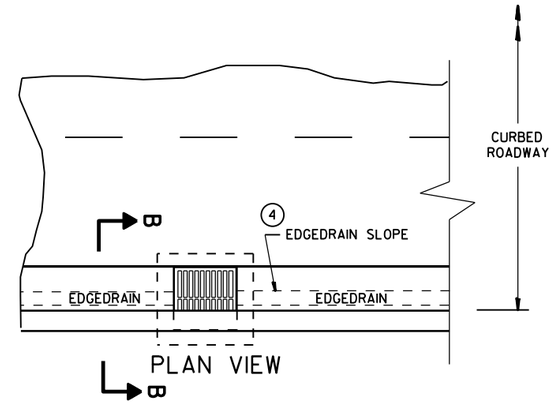
DETAIL "B"
TO BE USED AT INTERMEDIATE LOCATIONS

TYPICAL DRAIN OUT DETAILS



SECTION B-B

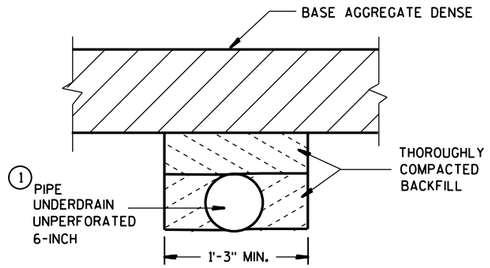
URBAN CROSS SECTION



PLAN VIEW

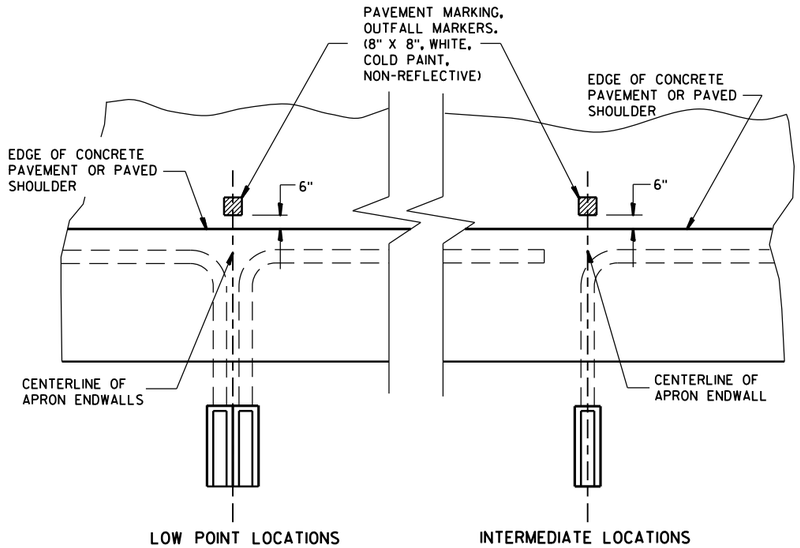
ROADWAY WITH CURBS

(EDGEDRAIN CONNECTS INTO INLET STRUCTURE)



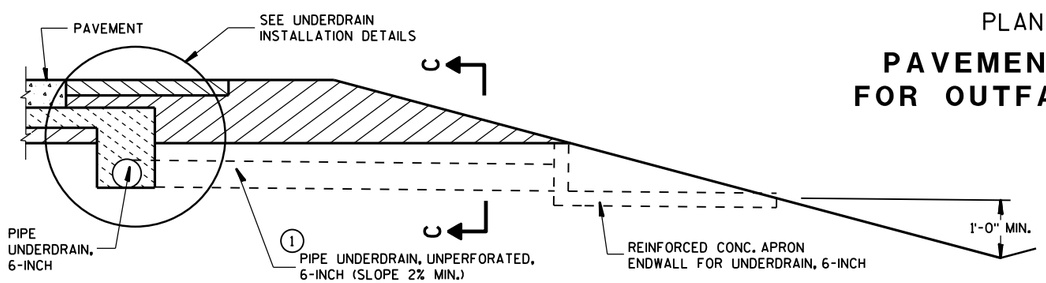
SECTION C-C

(TRENCH FOR OUTFALL PIPE)



PLAN VIEW

PAVEMENT MARKING FOR OUTFALL MARKERS



SECTION A-A

RURAL CROSS SECTION

EDGEDRAIN OUTLET AND OUTFALL MARKERS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

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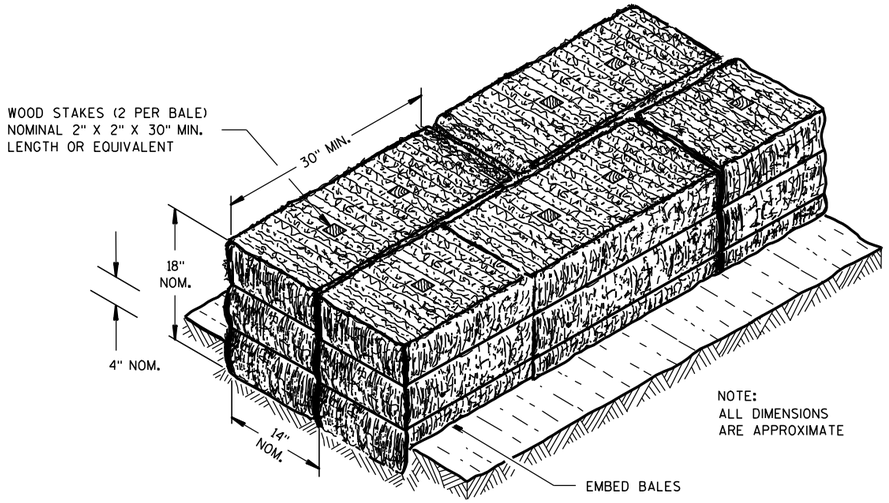
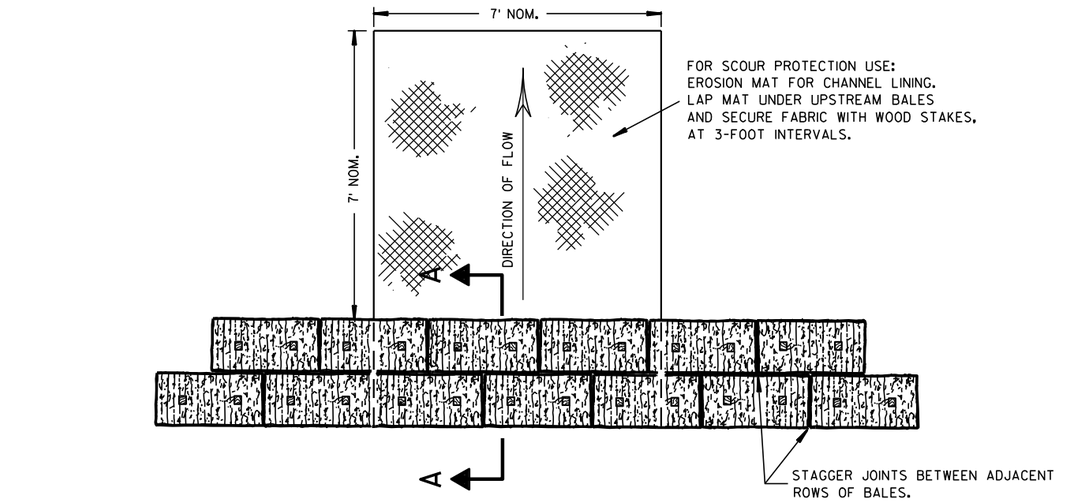
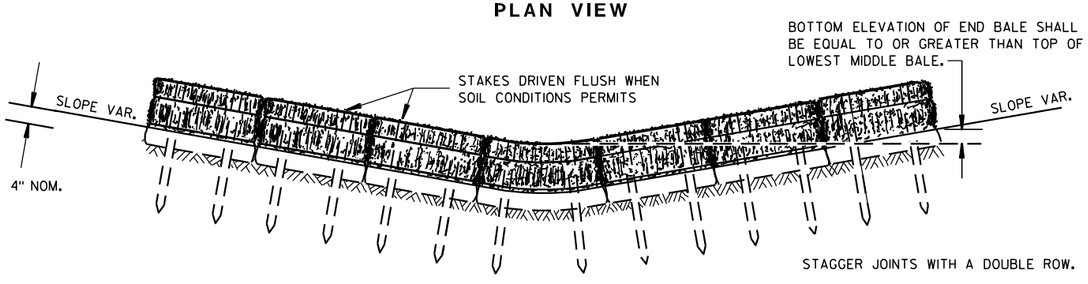
S.D.D. 8 D 15-5a



SECTION A-A



PLAN VIEW



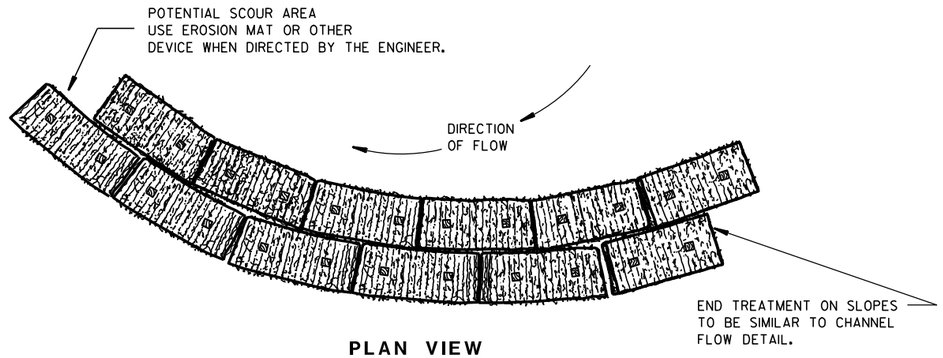
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES (1)

GENERAL NOTES

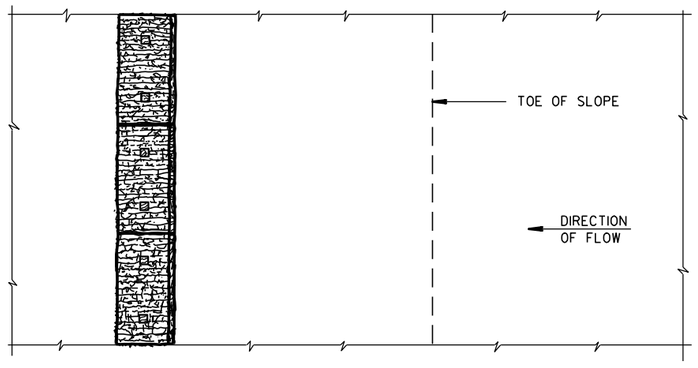
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(1) TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.

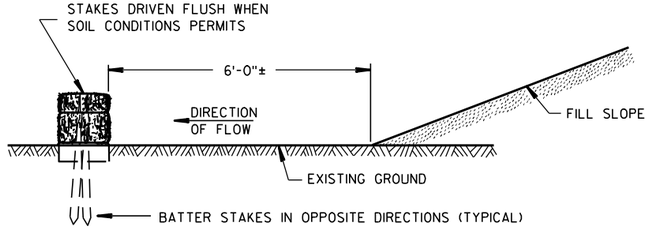


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

6/04/02 — DATE

/S/ Beth Cannestra — CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

6

S.D.D. 8 E 8-3

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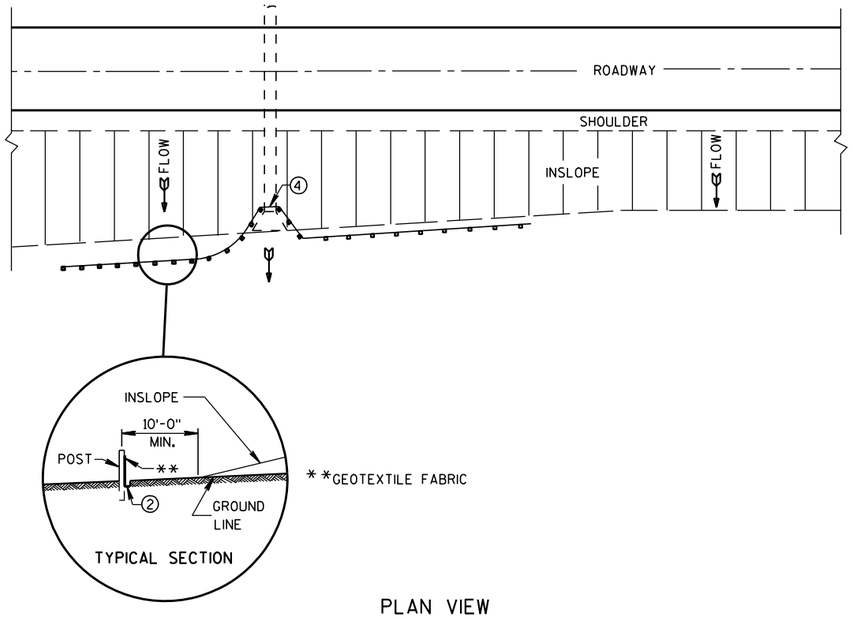
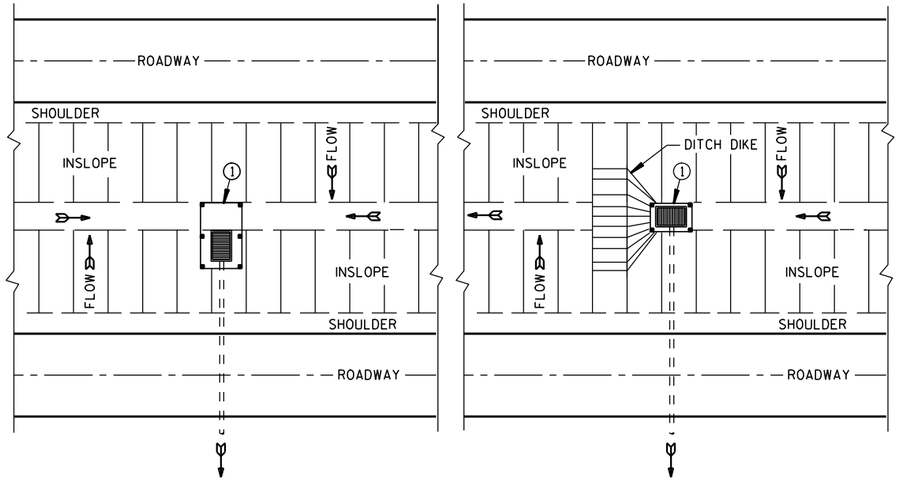
S.D.D. 8 E 8-3



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



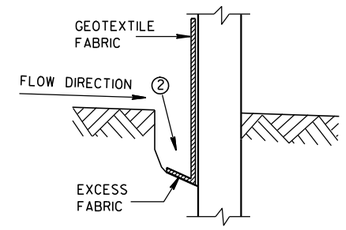
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

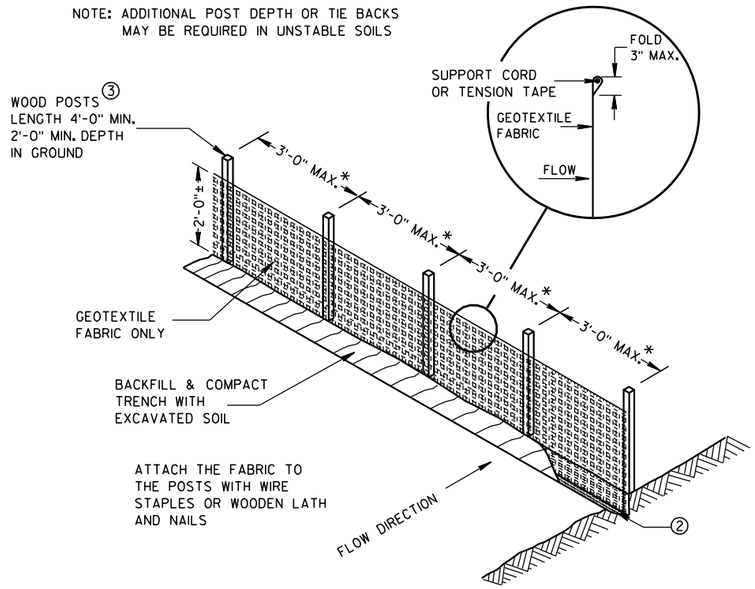
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

1. HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
2. FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.
4. SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
5. CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.

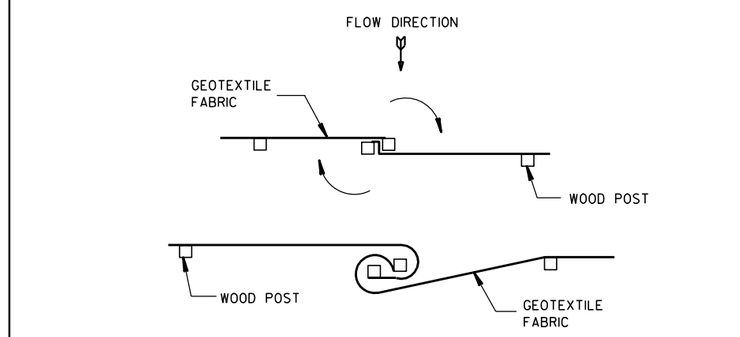


TRENCH DETAIL

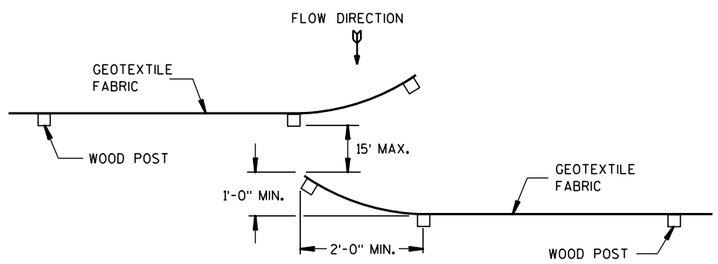


*NOTE: 8'-0" POST SPACING ALLOWED IF A WOVEN GEOTEXTILE FABRIC IS USED.

SILT FENCE

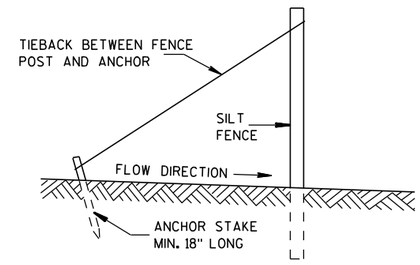


TWIST METHOD



HOOK METHOD

JOINING TWO LENGTHS OF SILT FENCE 5



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 8 E 9-6

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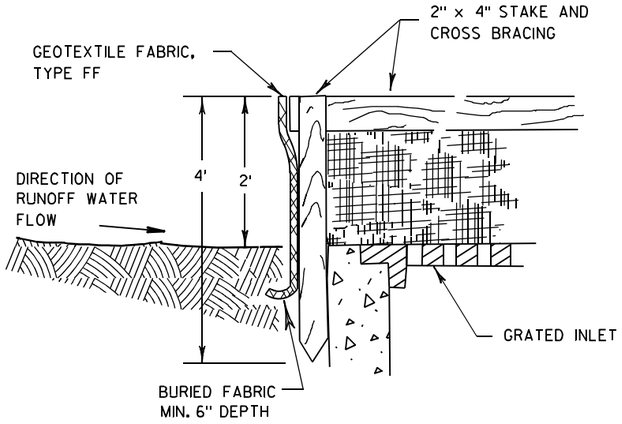
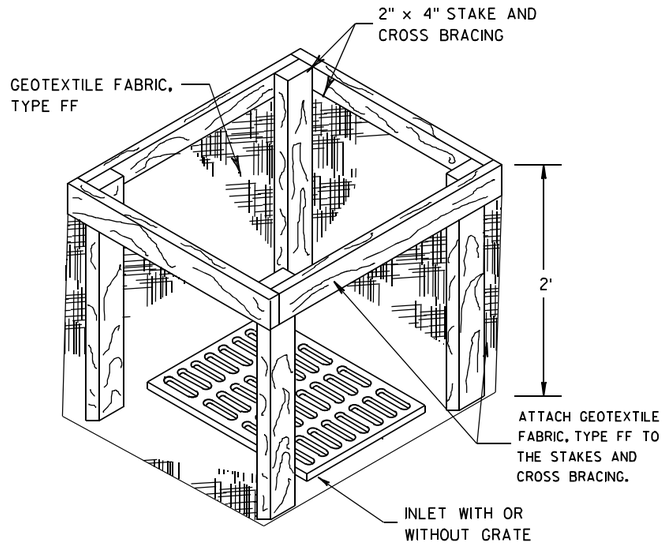
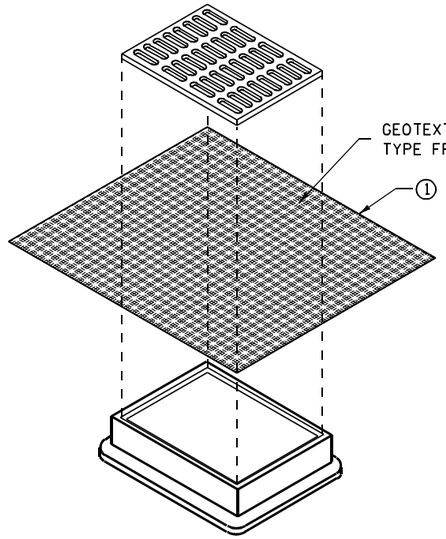
S.D.D. 8 E 9-6



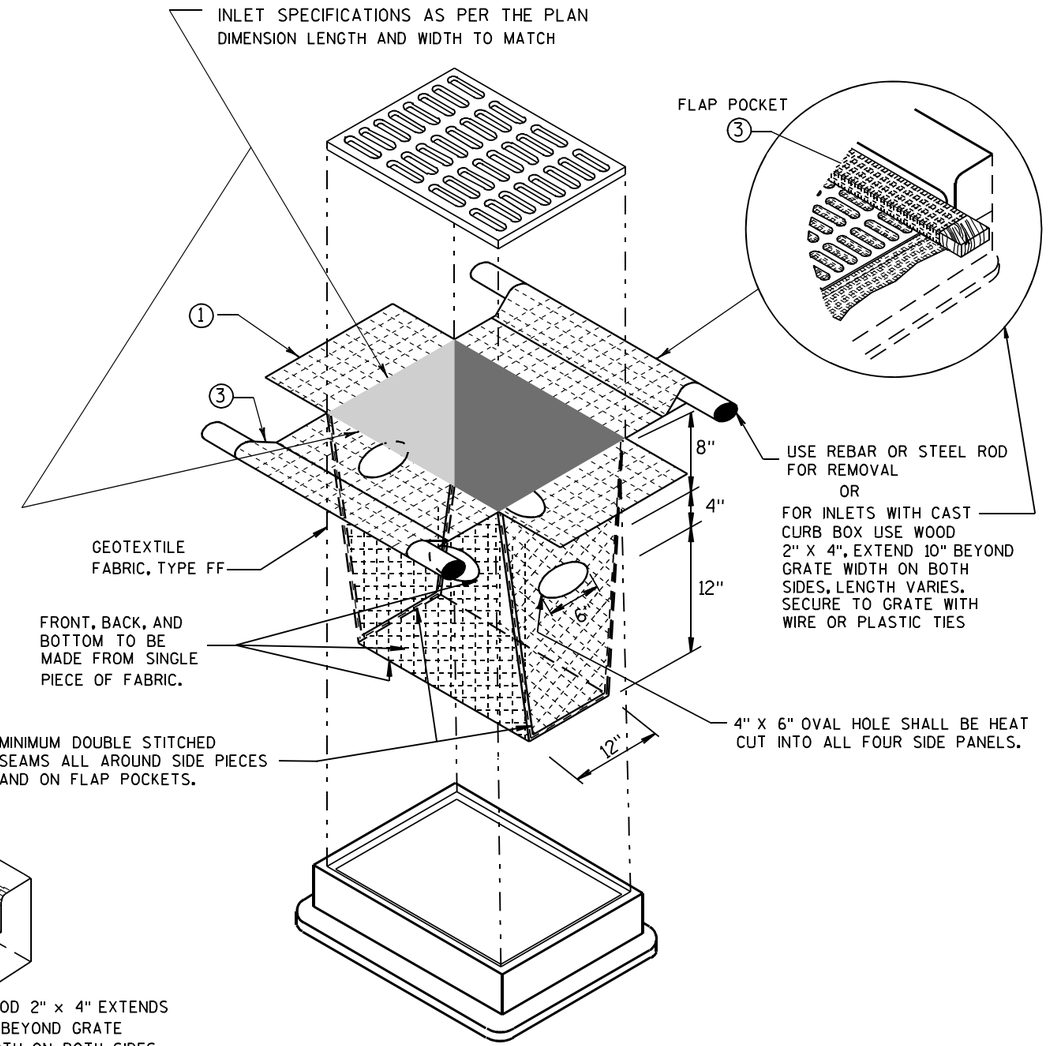


INLET PROTECTION, TYPE A



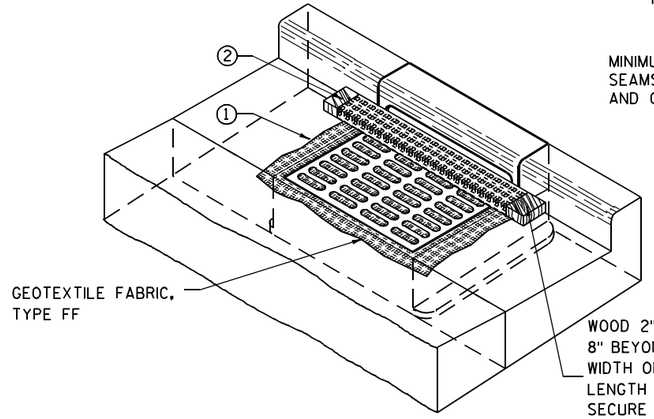
INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH
OR WITHOUT A CURB BOX AS PER NOTE ②)



INLET PROTECTION, TYPE C (WITH CURB BOX)

GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION
TYPE A, B, C, AND D

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

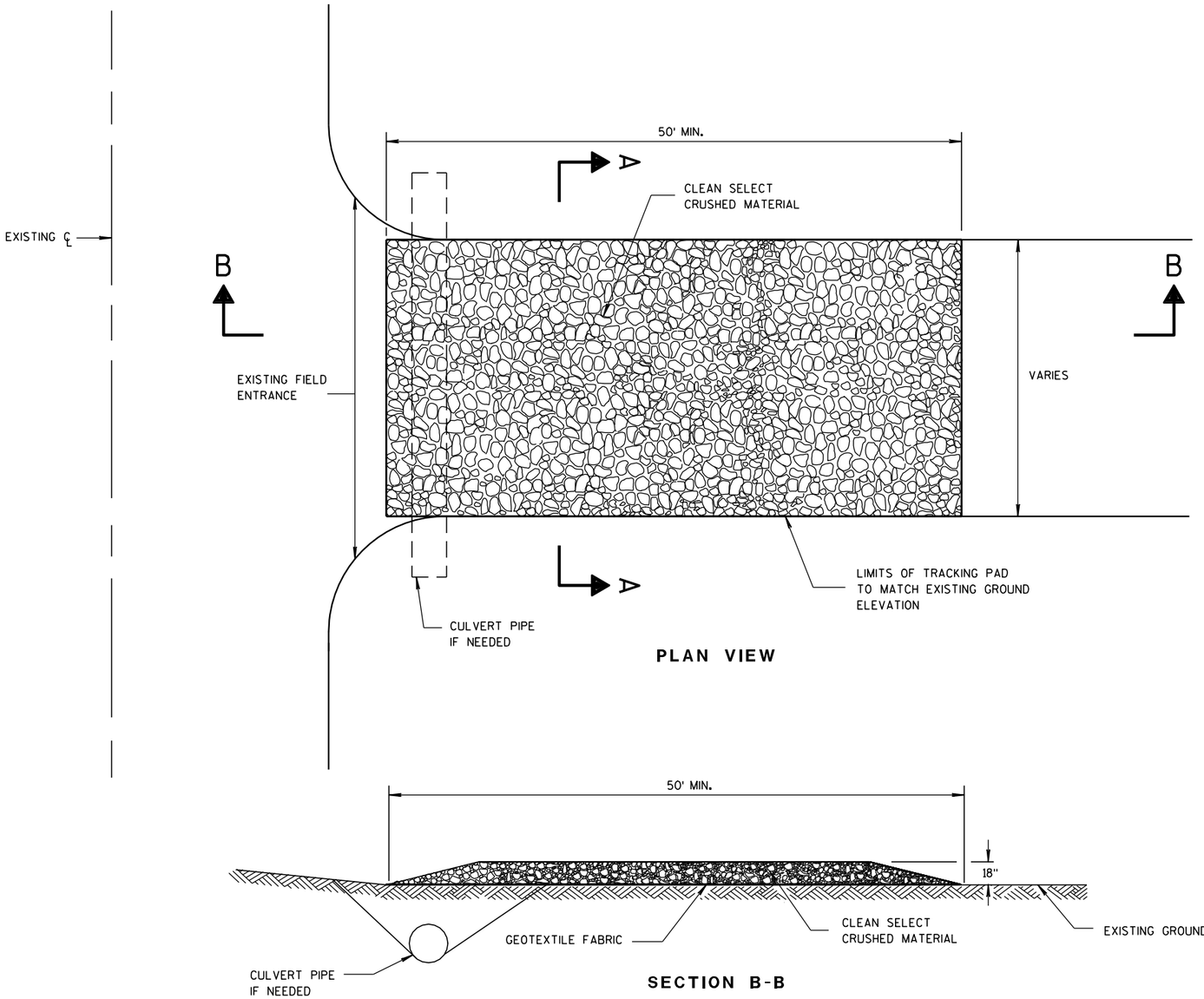
APPROVED

10/16/02
DATE

/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

6
S.D.D. 8 E 10-2



PLAN VIEW

SECTION B-B

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

TRACKING PAD SHALL BE INSPECTED DAILY. DEFICIENT AREAS SHALL BE REPAIRED OR REPLACED IMMEDIATELY.

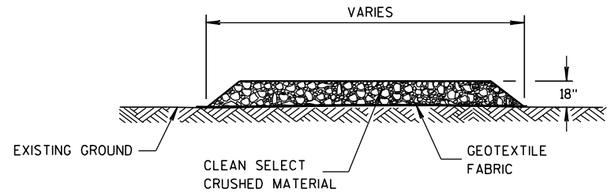
TRACKING PAD TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

TRACKING PAD SHALL BE THE FULL WIDTH OF THE EGRESS POINT.

SURFACE WATER MUST BE PREVENTED FROM PASSING THROUGH THE TRACKING PAD. FLOWS SHALL BE DIVERTED AWAY, AROUND OR CONVEYED UNDER THE TRACKING PAD.

CULVERT PIPE OR OTHER BMP USED TO DIVERT WATER AWAY, AROUND OR UNDER THE TRACKING PAD SHALL BE DESIGNED TO CONVEY THE 2 YEAR - 24 HOUR EVENT.

THE COST OF ADDITIONAL BMP TO DIVERT WATER ARE INCIDENTAL TO THE TRACKING PAD BID ITEM.



SECTION A-A

TRACKING PAD

TRACKING PAD	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 3/24/2011 DATE FHWA	/S/ Jerry H. Zoda ROADWAY STANDARDS ENGINEER

6

S.D.D. 8 E 14-1

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S.D.D. 8 E 14-1

METAL APRON ENDWALLS

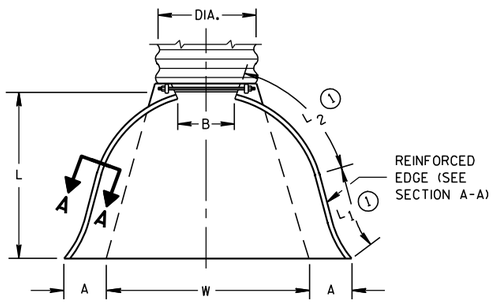
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	36	2 1/2 to 1	1 Pc.
21	.064	.060	9	12	6	36	18	29 5/8	42	2 1/2 to 1	1 Pc.
24	.064	.075	10	13	6	41	18	37 1/4	48	2 1/2 to 1	1 Pc.
30	.079	.075	12	16	8	51	18	52 1/4	60	2 1/2 to 1	1 Pc.
36	.079	.105	14	19	9	60	24	59 3/4	72	2 1/2 to 1	2 Pc.
42	.109	.105	16	22	11	69	24	75 5/8	84	2 1/2 to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 1/4 to 1	3 Pc.
54	.109	.105	18	30	12	84	30	85 1/2	102	2 1/4 to 1	3 Pc.
60	.109×	.105×	18	33	12	87	—	—	114	2 to 1	3 Pc.
66	.109×	.105×	18	36	12	87	—	—	120	2 to 1	3 Pc.
72	.109×	.105×	18	39	12	87	—	—	126	2 to 1	3 Pc.
78	.109×	.105×	18	42	12	87	—	—	132	1 1/2 to 1	3 Pc.
84	.109×	.105×	18	45	12	87	—	—	138	1 1/2 to 1	3 Pc.
90	.109×	.105×	18	37	12	87	—	—	144	1 1/2 to 1	3 Pc.
96	.109×	.105×	18	35	12	87	—	—	150	1 1/2 to 1	3 Pc.

× EXCEPT CENTER PANEL SEE GENERAL NOTES

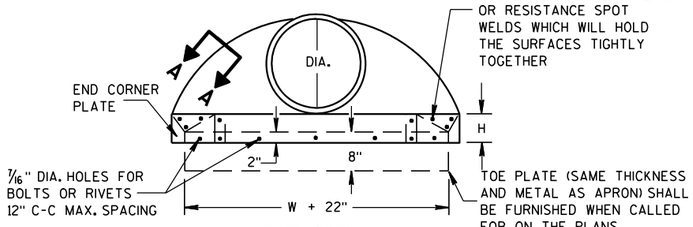
REINFORCED CONCRETE APRON ENDWALLS

PIPE DIA. (IN.)	DIMENSIONS (Inches) T	A	B	C	D	E	G	APPROX. SLOPE
12	2	4	24	48 7/8	72 1/8	24	2	3 to 1
15	2 1/4	6	27	46	73	30	2 1/4	3 to 1
18	2 1/2	9	27	46	73	36	2 1/2	3 to 1
21	2 3/4	9	36	37 1/2	73 1/2	42	2 3/4	3 to 1
24	3	9 1/2	43 1/2	30	73 1/2	48	3	3 to 1
27	3 1/4	10 1/2	49 1/2	24	73 1/2	54	3 1/4	3 to 1
30	3 1/2	12	54	19 3/4	73 1/2	60	3 1/2	3 to 1
36	4	15	63	34 3/4	97 3/4	72	4	3 to 1
42	4 1/2	21	63	35	98	78	4 1/2	3 to 1
48	5	24	72	26	98	84	5	3 to 1
54	5 1/2	27	65	* 33 1/4 - ** 35	* 98 1/4 - ** 100	90	5 1/2	2 2/5 to 1
60	6	* 30 - ** 35	60	39	99	96	5	2 to 1
66	6 1/2	* 24 - ** 30	* 72 - ** 78	* 21 - ** 27	99	102	5 1/2	2 to 1
72	7	* 24 - ** 36	78	21	99	108	6	2 to 1
78	7 1/2	* 24 - ** 36	78	21	99	114	6 1/2	2 to 1
84	8	36	90 1/2	21	111 1/2	120	6 1/2	1 1/2 to 1
90	8 1/2	41	87 1/2	24	111 1/2	132	6 1/2	1 1/2 to 1

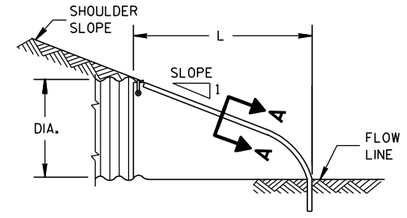
*MINIMUM
**MAXIMUM



PLAN VIEW

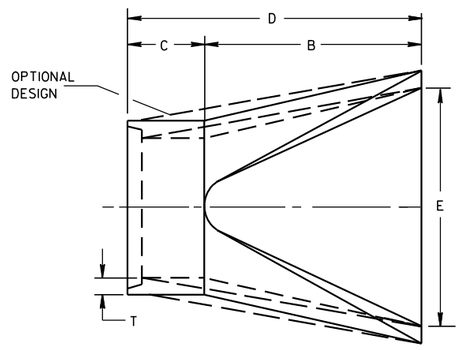


END VIEW

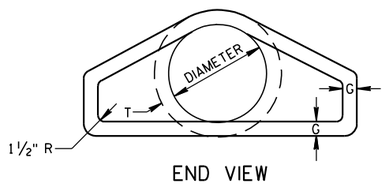


SIDE ELEVATION

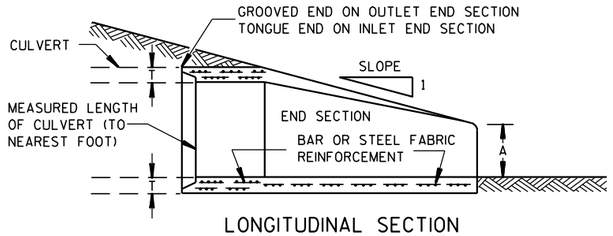
METAL ENDWALLS



PLAN

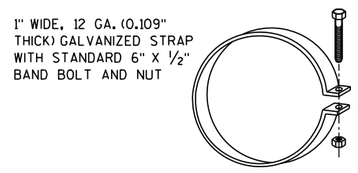


END VIEW



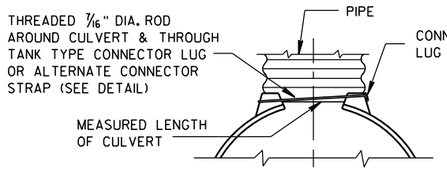
LONGITUDINAL SECTION

CONCRETE ENDWALLS

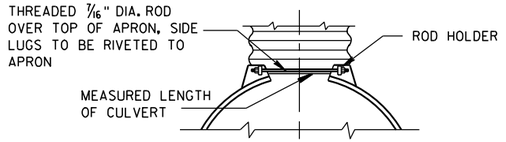


ALTERNATE FOR TYPE 1 CONNECTION

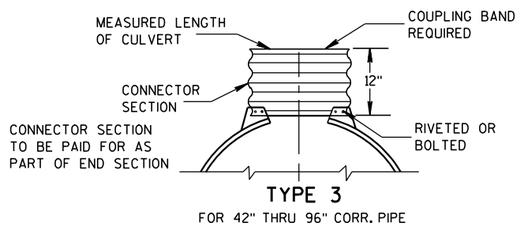
END SECTION CONNECTOR STRAP



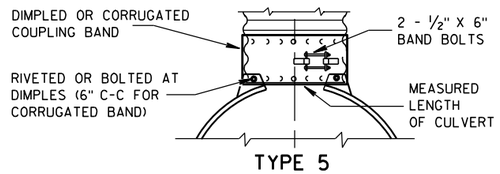
TYPE 1
FOR 12" THRU 24" CORR. PIPE



TYPE 2
FOR 30" THRU 96" CORR. PIPE



TYPE 3
FOR 42" THRU 96" CORR. PIPE



TYPE 5
ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

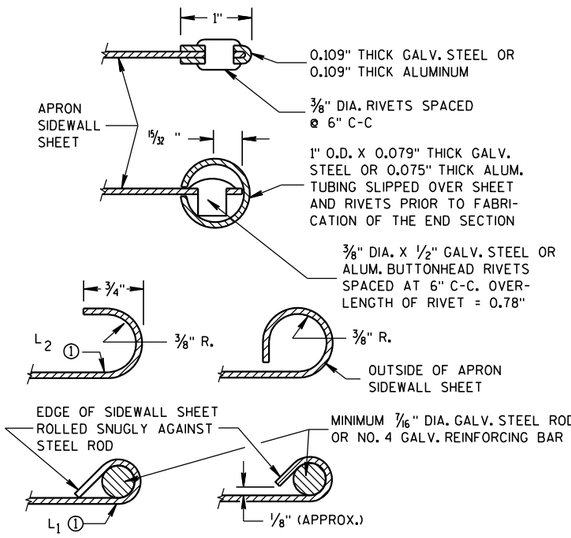
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5 AS APPLICABLE.

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

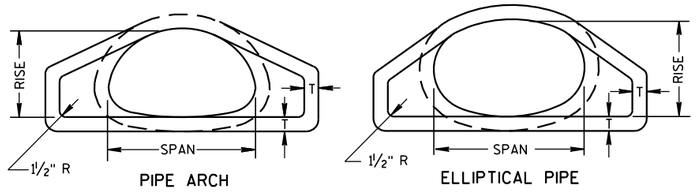
APRON ENDWALLS FOR CULVERT PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

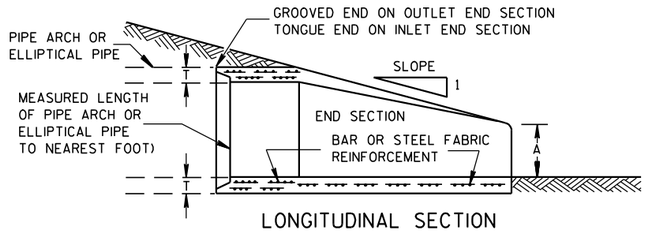
APPROVED
11/30/94 DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

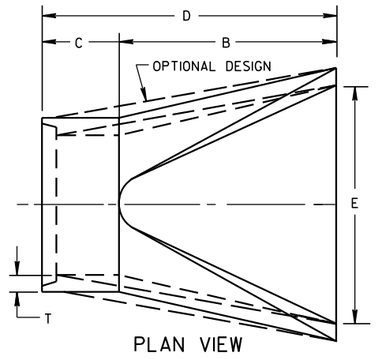
S.D.D. 8 F 1-11



END VIEW

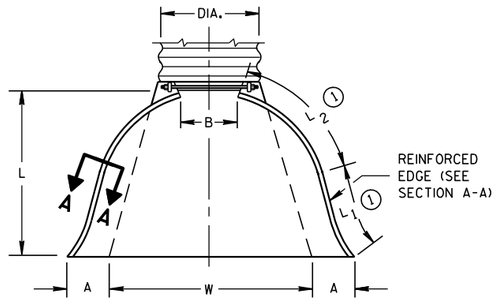


LONGITUDINAL SECTION

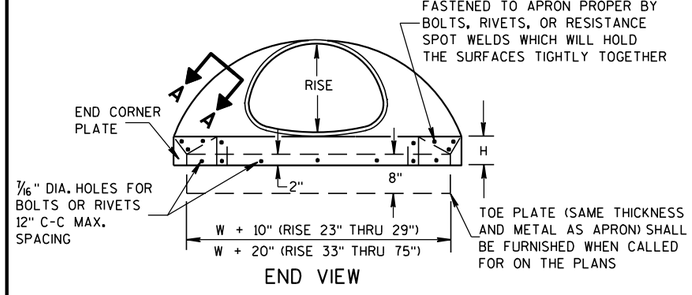


PLAN VIEW

CONCRETE ENDWALLS

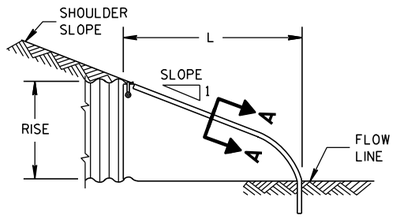


PLAN VIEW



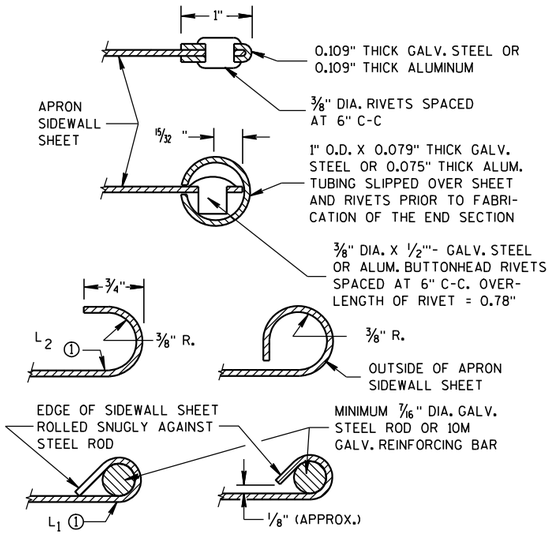
END CORNER PLATES MAY BE FASTENED TO APRON PROPER BY BOLTS, RIVETS, OR RESISTANCE SPOT WELDS WHICH WILL HOLD THE SURFACES TIGHTLY TOGETHER

END VIEW



SIDE ELEVATION

METAL ENDWALLS



SECTION A-A

2- ⅔" X ½" CORRUGATIONS													
EQUIV. DIA. (Inches)	(Inches)		MIN. THICK. (Inches)		DIMENSIONS (Inches)							APPROX. SLOPE	BODY
	SPAN	RISE	STEEL	ALUM.	A (±1")	B (MAX.)	H (±1")	L (±1½")	L1 ①	L2 ①	W (±2")		
15	17	13	.064	.060	7	9	6	19	14	16	30	2½ to 1	1 Pc.
18	21	15	.064	.060	7	10	6	23	14	19⅜	36	2½ to 1	1 Pc.
21	24	18	.064	.060	8	12	6	28	18	21¾	42	2½ to 1	1 Pc.
24	28	20	.064	.060	9	14	6	32	18	27½	48	2½ to 1	1 Pc.
30	35	24	.079	.075	10	16	6	39	18	37⅝	60	2½ to 1	1 Pc.
36	42	29	.079	.075	12	18	8	46	24	45⅜	75	2½ to 1	1 Pc.
42	49	33	.109	.105	13	21	9	53	24	54¾	85	2½ to 1	2 Pc.
48	57	38	.109	.105	18	26	12	63	24	68	90	2½ to 1	3 Pc.
54	64	43	.109	.105	18	30	12	70	24	72¾	102	2¼ to 1	3 Pc.
60	71	47	.109*	.105*	18	33	12	77	30	82¼	114	2¼ to 1	3 Pc.
66	77	52	.109*	.105*	18	36	12	77	—	—	126	2 to 1	3 Pc.
72	83	57	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.

3" X 1" CORRUGATIONS													
EQUIV. DIA. (Inches)	(Inches)		MIN. THICK. (Inches)		DIMENSIONS (Inches)							APPROX. SLOPE	BODY
	SPAN	RISE	STEEL	ALUM.	A (±1")	B (MAX.)	H (±1")	L (±1½")	L1 ①	L2 ①	W (±2")		
48	53	41	.109	.105	18	26	12	63	24	72¾	90	2½ to 1	2 Pc.
54	60	46	.109	.105	18	30	12	70	30	82¼	102	2 to 1	2 Pc.
60	66	51	.109*	.105*	18	33	12	77	—	—	114	1½ to 1	3 Pc.
66	73	55	.109*	.105*	18	36	12	77	—	—	126	1½ to 1	3 Pc.
72	81	59	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.
78	87	63	.109*	.105*	22	38	12	77	—	—	148	1½ to 1	3 Pc.
84	95	67	.109*	.105*	22	34	12	77	—	—	162	1½ to 1	3 Pc.
90	103	71	.109*	.105*	22	38	12	77	—	—	174	1½ to 1	3 Pc.
96	112	75	.109*	.105*	24	40	12	77	—	—	174	1½ to 1	3 Pc.

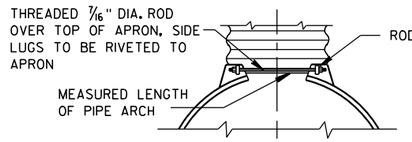
NOTE: ALL SPLICES TO BE LAP RIVETED OR BOLTED.

* EXCEPT CENTER PANEL SEE GENERAL NOTES

REINFORCED CONCRETE PIPE ARCH									
EQUIV. DIA. (Inches)	DIMENSIONS (Inches)								APPROX. SLOPE
	** SPAN	** RISE	T	A	B	C	D	E	
24	29	18	3	8½	39	33	72	48	3 to 1
30	36	22	3½	9½	50	46	96	60	3 to 1
36	44	27	4	11⅛	60	36	96	72	3 to 1
42	51	31	4½	15 13/16	60	36	96	78	3 to 1
48	58	36	5	21	60	36	96	84	3 to 1
54	65	40	5½	25½	60	36	96	90	3 to 1
60	73	45	6	31	60	36	96	96	3 to 1
72	88	54	7	31	60	39	99	120	2 to 1
84	102	62	8	28½	83	19	102	144	2 to 1

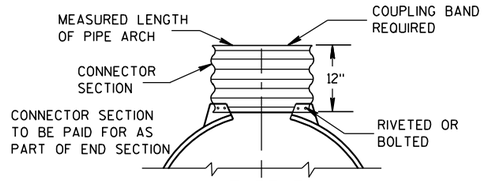
REINFORCED CONCRETE ELLIPTICAL PIPE									
EQUIV. DIA. (Inches)	DIMENSIONS (Inches)								APPROX. SLOPE
	** SPAN	** RISE	T	A	B	C	D	E	
24	30	19	3¼	8½	39	33	72	48	3 to 1
30	38	24	3¾	9½	54	18	72	60	3 to 1
36	45	29	4½	11⅛	60	24	84	72	2½ to 1
42	53	34	5	15¾	60	36	96	78	2½ to 1
48	60	38	5½	21	60	36	96	84	2½ to 1
54	68	43	6	25½	60	36	96	90	2½ to 1
60	76	48	6½	30	60	36	96	96	2½ to 1

**NOMINAL SIZE



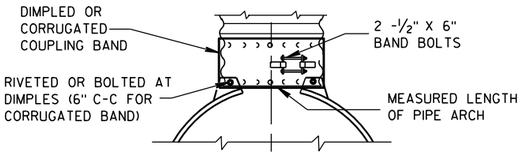
TYPE 2

FOR 17" X 13" THRU 112" X 75" PIPE ARCH



TYPE 3

FOR 64" X 43" THRU 112" X 75" PIPE ARCH



TYPE 5

ALTERNATE FOR:

ALL SIZES CORRUGATED PIPE ARCHES

NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL, AND CORRUGATED BAND FITS INSIDE ENDWALL.

CONNECTION DETAILS

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

CONCRETE APRON ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM APRON ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE ARCH PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 77" X 52" THROUGH 112" X 75" APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

① FOR PIPE ARCH SIZES UP TO 73" X 55" A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

11/30/94
DATE

/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER

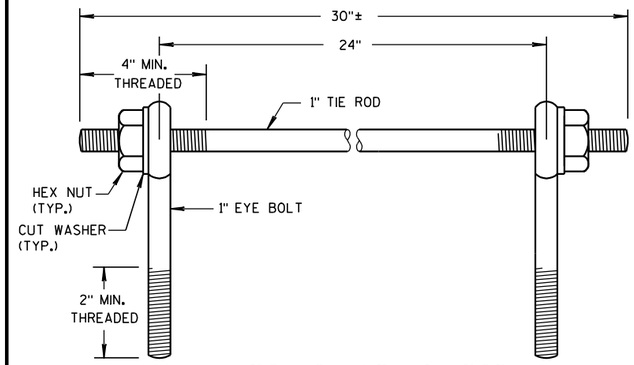
FHWA

6

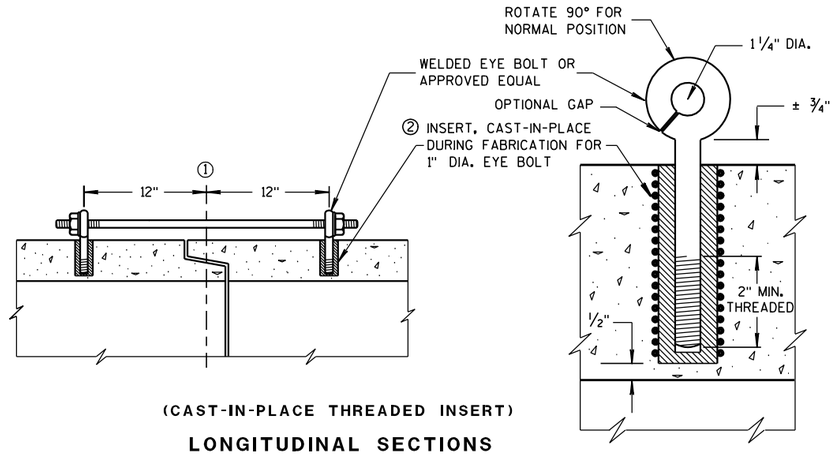
S.D.D. 8 F 2-1

6

S.D.D. 8 F 2-1



EYE BOLTS AND TIE ROD



(CAST-IN-PLACE THREADED INSERT)

LONGITUDINAL SECTIONS

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 1)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT AND STORM SEWER PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED IN THE STANDARD SPECIFICATIONS AND THE PLAN. THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR DRAINAGE STRUCTURES. ONLY ALTERNATE 1 AND 3 MAY BE USED FOR CATTLE PASSES, UNLESS OTHERWISE STATED IN THE CONTRACT. THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE THE PIPE BY THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO THE PIPE AND APRON ENDWALLS IF REQUIRED.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

JOINT TIES TO BE HOT-DIP GALVANIZED PER ASTM A 153.

① ℄ OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.

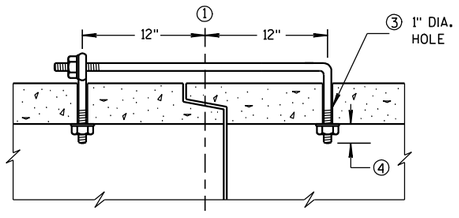
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

③ HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12 INCHES FROM ℄ OF TONGUE AND GROOVE.

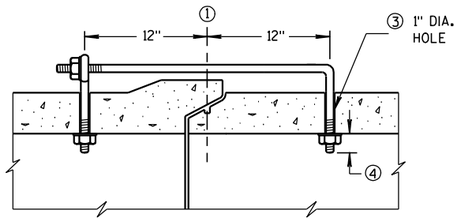
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

⑤ OPENING TO BE ROD DIAMETER PLUS 1 INCH.

⑥ LENGTH ADEQUATE TO EXTEND TO WITHIN 1/2 INCH OF THE INNER SURFACE OF THE PIPE.



(TONGUE & GROOVE PIPE)

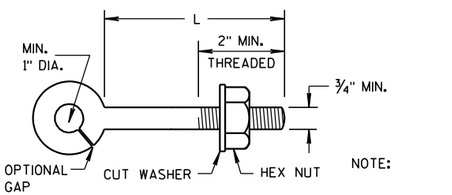


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

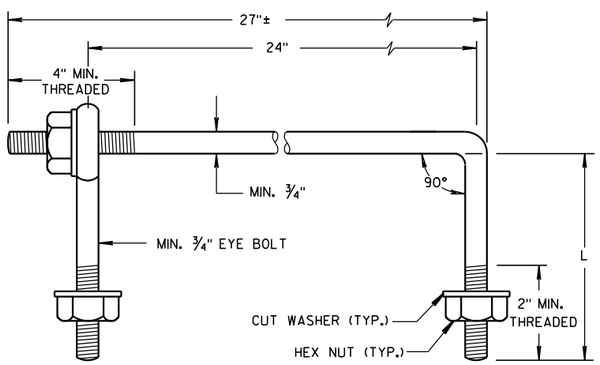
EYE BOLT DIMENSION TABLE

PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	



EYE BOLT

NOTE: TWO EYE BOLTS MAY BE USED WITH A 30" LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.



EYE BOLT AND TIE ROD

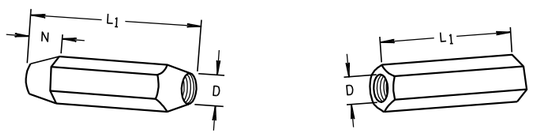
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 2)

ADJUSTABLE TIE ROD TABLE

PIPE DIAMETER	TIE ROD DIAMETER	D	L_1	N
12-60	5/8	5/8	5	1/2
66-84	3/4	3/4	5	1/2
90-108	1	1	7	1 1/16

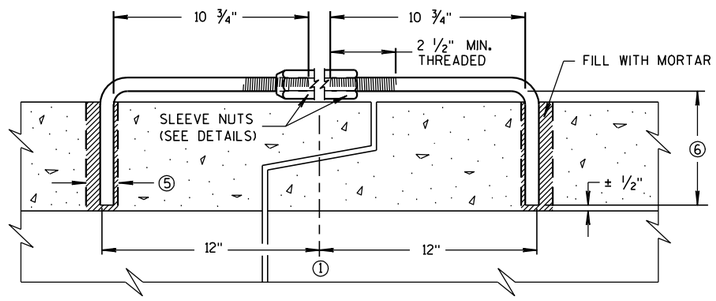
DIMENSIONS SHOWN ARE IN INCHES



TAPERED PLAIN

RIGHT AND LEFT THREADS

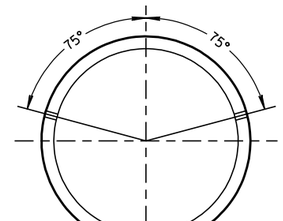
SLEEVE NUTS



LONGITUDINAL SECTION

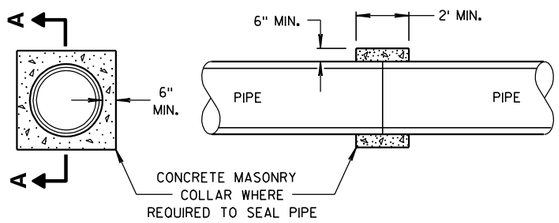
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



PLACEMENT OF (2) CAST-IN-PLACE INSERTS OR HOLES DURING FABRICATION FOR PIPE SECTIONS REQUIRING TIE RODS

TRANSVERSE SECTION



SECTION A-A

CONCRETE COLLAR DETAIL

JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/5/2012 DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER
FHWA

6

S.D.D. 8 F 4-7

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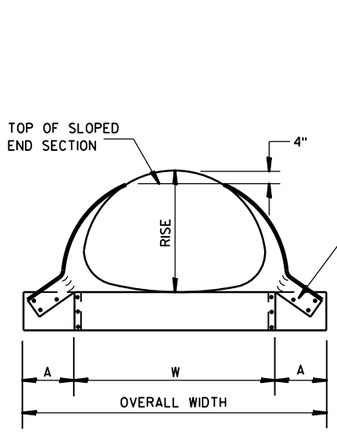
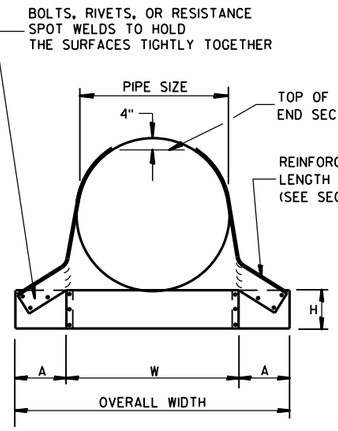
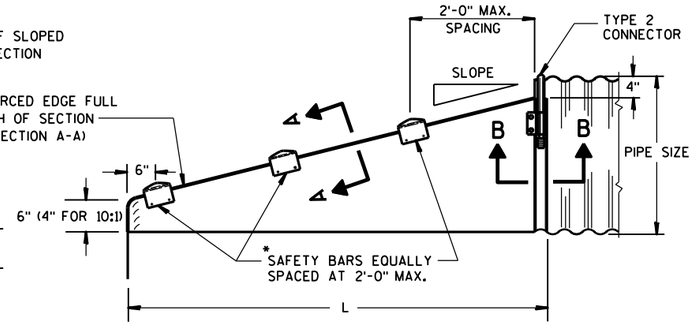
S.D.D. 8 F 4-7



FRONT VIEW



FRONT VIEW



SIDE VIEW

GENERAL NOTES

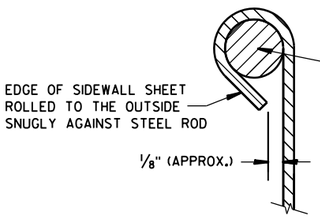
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

SLOPED END SECTIONS SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS, SECTION 521 FOR STEEL APRON ENDWALLS.

SAFETY BARS SHALL BE FABRICATED FROM GALVANIZED STEEL PIPE MEETING THE REQUIREMENTS OF ASTM A-53, GRADE B, SCHEDULE 40 OR APPROVED EQUAL.

STEEL APRON ENDWALLS FOR CULVERT PIPE
SLOPED SIDE DRAINS

PIPE DIA. (IN.)	MIN. THICK. (Inches)	DIMENSIONS (Inches)				L DIMENSIONS					
		A	H	W	OVERALL WIDTH	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES
15	.064	8	6	21	37	4:1	20	6:1	30	10:1	70
18	.064	8	6	24	40	4:1	32	6:1	48	10:1	100
21	.064	8	6	27	43	4:1	44	6:1	66	10:1	130
24	.064	8	6	30	46	4:1	56	6:1	84	10:1	160
30	.109	12	9	36	60	4:1	80	6:1	120	10:1	220
36	.109	12	9	42	66	4:1	104	6:1	156	10:1	280
42	.109	16	12	48	80	4:1	128	6:1	192	——	——
48	.109	16	12	54	86	4:1	152	6:1	228	——	——
54	.109	16	12	60	92	4:1	176	6:1	264	——	——
60	.109	16	12	66	98	4:1	200	6:1	300	——	——



SECTION A-A

*NOTE:
THREE SAFETY BARS ARE SHOWN. ACTUAL NUMBER OF BARS REQUIRED AT A 2'-0" C-C MAX. SPACING WILL VARY DEPENDING ON THE LENGTH OF THE END SECTION.

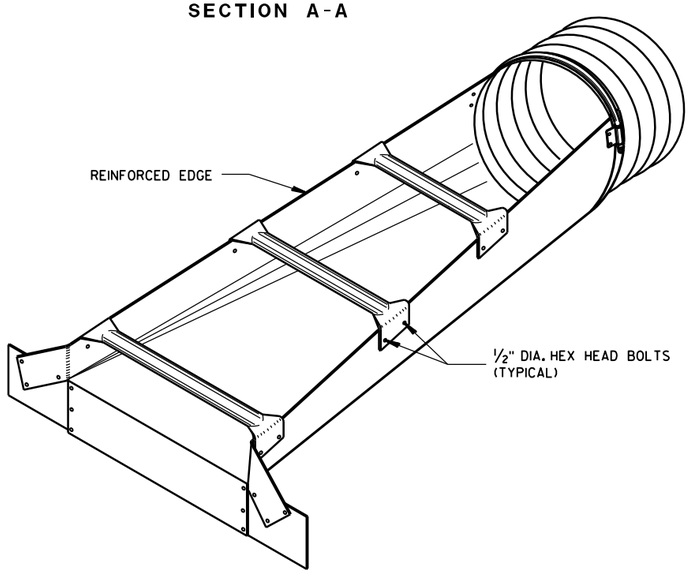
3" GALVANIZED PIPE. FLATTEN ENDS, THEN BEND OUTSIDE 4" TO MATCH END SECTION SIDES.

DETAIL OF SAFETY BAR

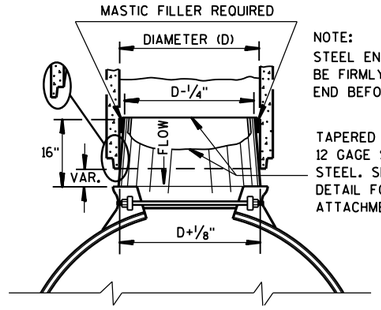
STEEL APRON ENDWALLS FOR PIPE ARCH
SLOPED SIDE DRAINS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) ①	DIMENSIONS (Inches) A	H	W	OVERALL WIDTH	L DIMENSIONS SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES
15	17	13	.064 *	7	6	30	44	4:1	19	6:1	30	10:1 ②	70
18	21	15	.064 *	8	6	27	43	4:1	20	6:1	30	10:1	70
21	24	18	.064 *	8	6	30	46	4:1	32	6:1	48	10:1	100
24	28	20	.064 *	8	6	34	50	4:1	40	6:1	60	10:1	120
30	35	24	.079 *	12	9	41	65	4:1	56	6:1	84	10:1	160
36	42	29	.109 *	12	9	48	72	4:1	76	6:1	114	10:1	210
42	49	33	.109	16	12	55	87	4:1	92	6:1	138	——	——
48	57	38	.109	16	12	63	95	4:1	112	6:1	168	——	——
54	64	43	.109	16	12	70	102	4:1	132	6:1	198	——	——

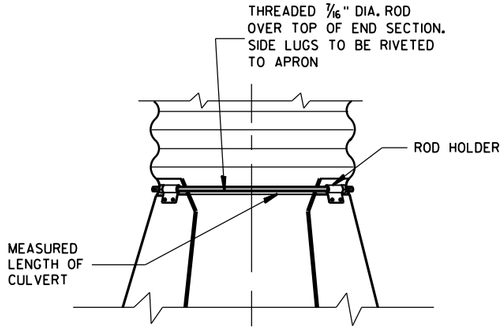
① * MINIMUM THICKNESS OF ALL 10:1 SLOPED SIDE DRAINS IS 0.109".
② ACTUAL SLOPE GREATER THAN 10:1.



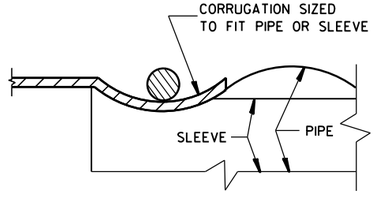
ISOMETRIC VIEW



STEEL ADAPTER SLEEVE FOR CONCRETE PIPE



TYPE 2
CONNECTION DETAIL



SECTION B-B

STEEL APRON ENDWALLS FOR CULVERT PIPE AND PIPE ARCH SLOPED SIDE DRAINS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
9/14/2012 — DATE
/S/ Jerry H. Zoda — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 8 F 7-5

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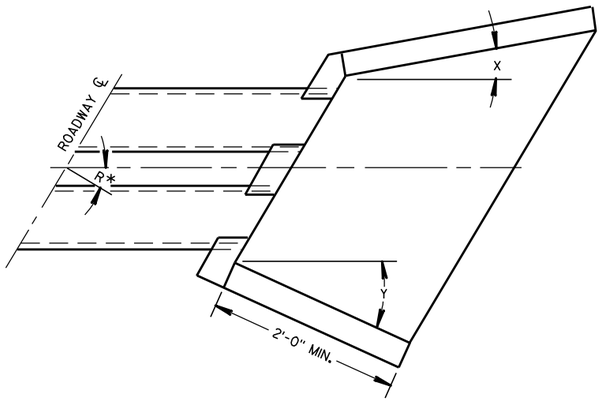
S.D.D. 8 F 7-5



WINGWALL ANGLE DETAILS

INLET			OUTLET		
R*	X	Y	R*	X	Y
0 - 7°	30°	30°	0 - 15°	15°	15°
8 - 22°	25°	"	16 - 45°	10°	"
23 - 37°	20°	"	46 - 75°	5°	"
38 - 52°	15°	"	OVER 75°	0°	"
53 - 67°	10°	"			
68 - 82°	5°	"			
OVER 82°	0°	"			

*R = NUMBER OF DEGREES RIGHT OR LEFT HAND FORWARD

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

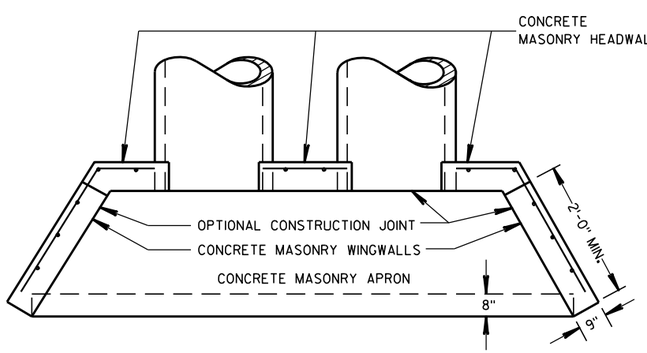
FILL SLOPES FLATTER THAN 2 ½:1 SHALL BE WARPED TO MEET THE TOP OF THE WINGWALLS.

ALL STEEL REINFORCEMENT AND WELDED STEEL WIRE FABRIC SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE NOTED.

(1) MINIMUM REINFORCEMENT SHALL BE 6" X 6" - W4.0 X W4.0 OR NO. 3 BARS SPACED 12" C-C IN BOTH DIRECTIONS.

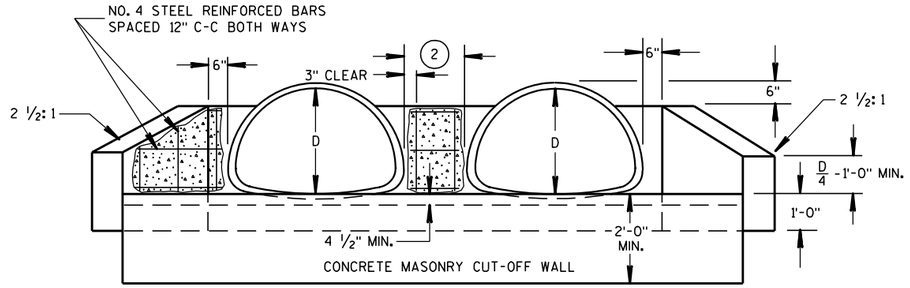
(2) THE SPACE BETWEEN PIPES SHALL BE AS FOLLOWS:

DIAMETER OR SPAN	SPACE
UP TO AND INCLUDING 48"	2'-0"
OVER 48" TO 72"	½ DIA. OR SPAN
OVER 72"	3'-0"



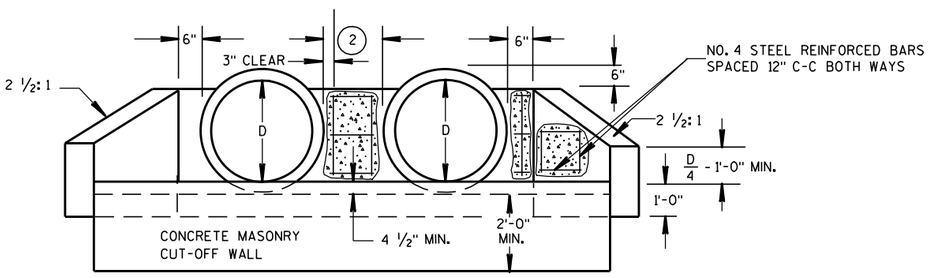
PLAN VIEW

CULVERT PIPE AND PIPE ARCH



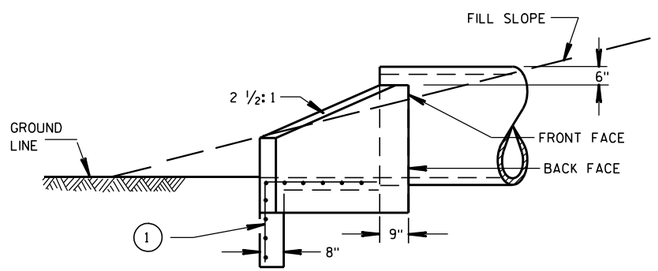
END ELEVATION

PIPE ARCH



END ELEVATION

CULVERT PIPE



SIDE ELEVATION

CULVERT PIPE AND PIPE ARCH

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

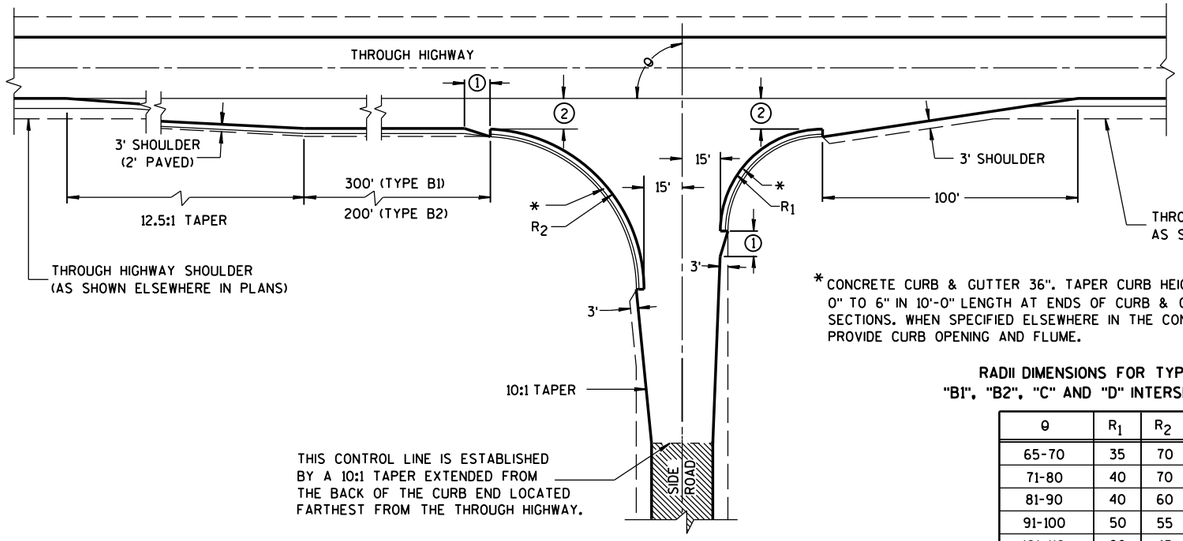
APPROVED
9/14/98 DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 8 F 10-1

6

S.D.D. 8 F 10-1

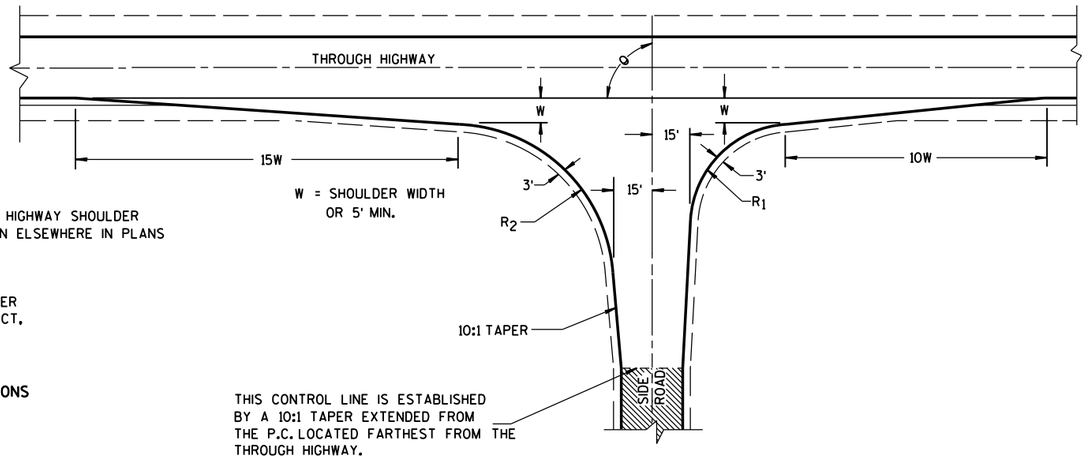


TYPE "B1" AND "B2"

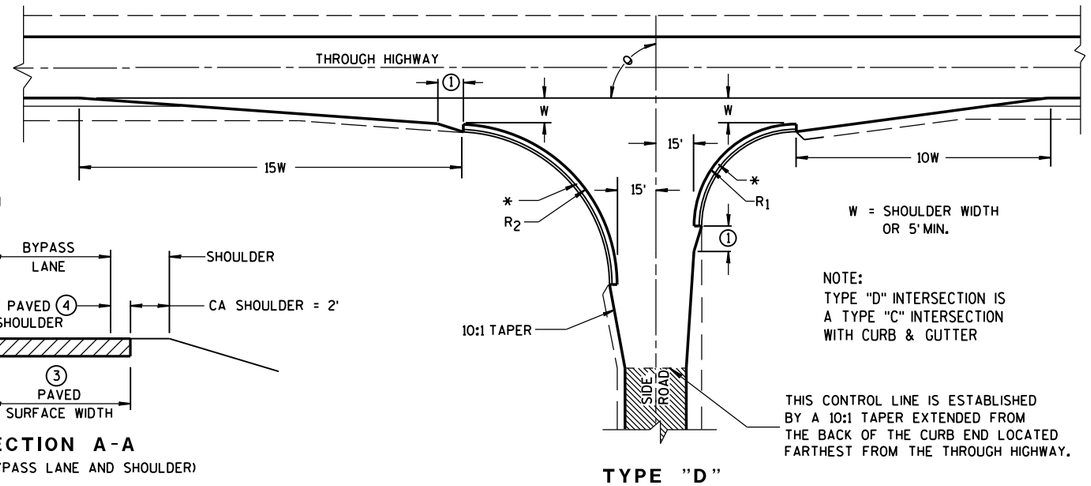
*CONCRETE CURB & GUTTER 36". TAPER CURB HEIGHT 0" TO 6" IN 10'-0" LENGTH AT ENDS OF CURB & GUTTER SECTIONS. WHEN SPECIFIED ELSEWHERE IN THE CONTRACT, PROVIDE CURB OPENING AND FLUME.

RADII DIMENSIONS FOR TYPES "B1", "B2", "C" AND "D" INTERSECTIONS

θ	R_1	R_2
65-70	35	70
71-80	40	70
81-90	40	60
91-100	50	55
101-110	60	45



TYPE "C"



TYPE "D"

GENERAL NOTES

DESIGNS MAY BE USED INTERCHANGEABLY IN COMBINATION OR SEPARATELY FOR ANY ONE COMPLETE INTERSECTION DEPENDING UPON INTERSECTION ANGLE AND SURFACING OF EACH APPROACH ROADWAY.

SIDE ROAD SURFACING NOTE

WHEN THE SIDE ROAD IS NOT PRESENTLY PAVED, PAVEMENT SHALL BE PLACED TO THE LIMITS SHOWN UNLESS OTHERWISE PROVIDED IN THE CONTRACT. WHERE THE CONSTRUCTION LIMITS ARE BEYOND THE PAVING LIMITS, CRUSHED AGGREGATE SURFACING SHALL BE PLACED BETWEEN THE PAVING LIMITS AND CONSTRUCTION LIMITS.

WHEN THE SIDE ROAD IS PRESENTLY PAVED, NEW PAVEMENT SHALL BE PLACED TO THE LIMITS OF DESIGN AS SHOWN AND BEYOND, IF NECESSARY, TO MEET EXISTING PAVEMENT.

WHEN THE SIDE ROAD IS THE CONSTRUCTION PROJECT, THE INTERSECTION SURFACING SHALL BE THE SAME AS FOR THE PROJECT.

EXISTING PAVED SURFACE

BYPASS LANE

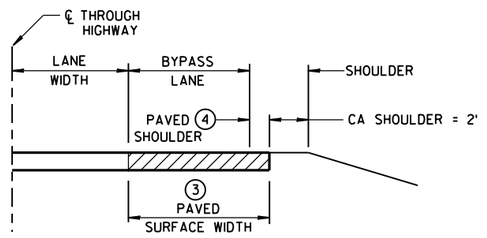
(1) 10-FT TYPICAL.

(2) 12-FT** PLUS ADDITIONAL WIDTH FOR BIKE LANE IF SHOWN ELSEWHERE IN THE PLAN.

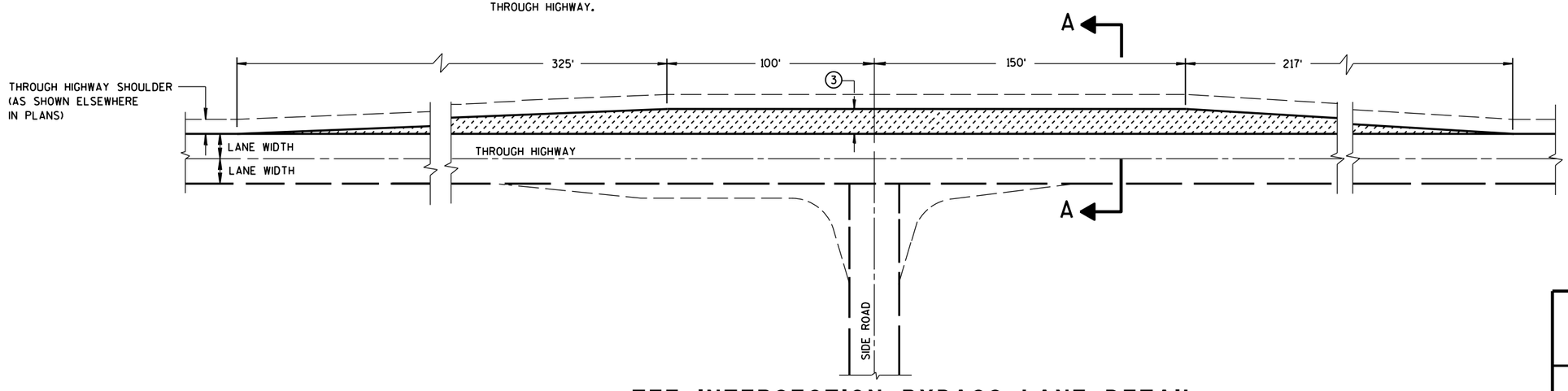
**10-FT MAY BE USED ON TYPE B2 ON RESURFACING PROJECTS IF SPECIFIED IN THE CONTRACT.

(3) BYPASS LANE PAVED SURFACE WIDTH OUTSIDE OF TRAVEL LANE
-ASPHALT = 12-FT PLUS PAVED SHOULDER WIDTH.
-PC CPNCRETE = 13-FT PLUS PAVED SHOULDER WIDTH.

(4) BYPASS LANE PAVED SHOULDER WIDTH = THE GREATER OF 1-FT OR THE PAVED SHOULDER WIDTH OF THE THROUGH HIGHWAY.



SECTION A-A
(SHOWING BYPASS LANE AND SHOULDER)



TEE INTERSECTION BYPASS LANE DETAIL

AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND "D" AND TEE INTERSECTION BYPASS LANE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

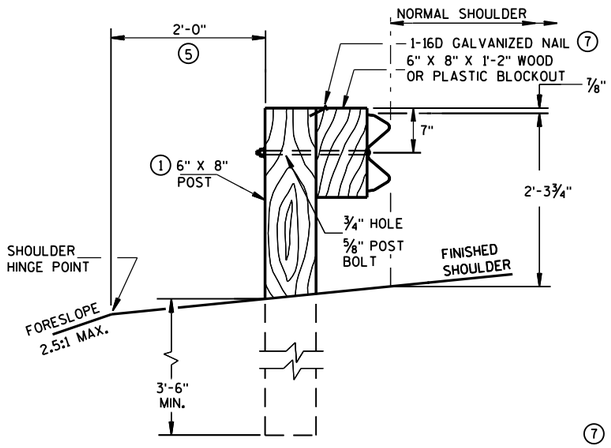
6

S.D.D. 9 A 1-13a

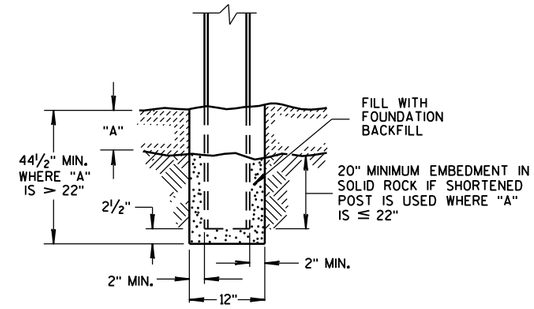
GENERAL NOTES

1. W6 X 9 OR W6 X 8.5 STEEL POSTS AND NOTCHED PLASTIC BLOCKOUTS ARE ACCEPTABLE ALTERNATIVES FOR 6" X 8" WOOD POSTS WITH WOOD OR PLASTIC BLOCKOUTS. USE APPROVED NOTCHED PLASTIC BLOCKOUTS WITH STEEL POSTS. APPROVED PLASTIC BLOCKOUT DESIGNS MAY VARY FROM THIS TYPICAL DETAIL WHEN USED IN CONJUNCTION WITH STEEL POSTS.
   DO NOT MIX STEEL POSTS AND WOOD POSTS IN A SINGLE INSTALLATION.
2. USE STRUCTURAL STEEL POSTS CONFORMING TO ASTM A 36. GALVANIZED POSTS ACCORDING TO AASHTO M 111. EITHER SET THE POSTS IN DRILLED HOLES OR DRIVE TO GRADE. REMOVE MUSHROOMING CAUSED BY DRIVING AND REPAIR DAMAGED SPELTER COATING ON GALVANIZED POSTS.
3. INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.
4. USE EITHER WOOD OR APPROVED PLASTIC BLOCKOUTS ON WOOD POSTS.
5. IF THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING, W BEAM (LHW).
6. IF ROCK IS ENCOUNTERED DURING EXCAVATION, THE ENGINEER MAY APPROVE USING A 12 INCH DIAMETER POST HOLE EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE APPROXIMATELY 2½ INCHES DEEP. CUT THE POSTS TO LENGTH AND PLACE IN YHE HOLE. BACKFILL WITH MATERIAL EXCAVATED FROM THE HOLE AND COMPACT ADEQUATEY.
7. WHEN USING STEEL POSTS AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

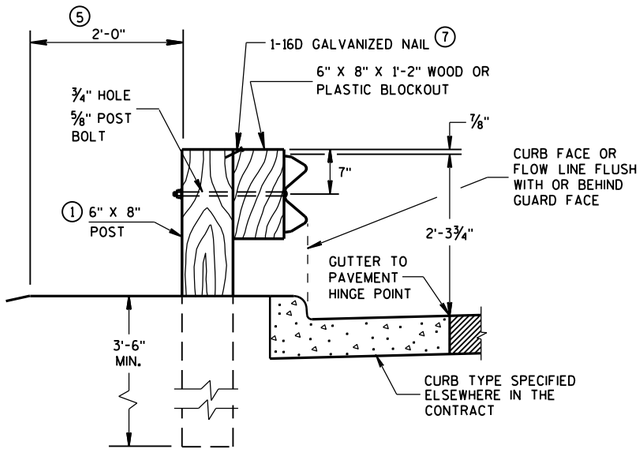
INSTALL BEAM GUARD SECTIONS AND ALL NECESSARY HARDWARE ACCORDING TO THE APPLICABLE PLAN AND CURRENT STANDARD AND SUPPLEMENTAL SPECIFICATIONS.
ALL DIMENSIONS ARE SUBJECT TO MANUFACTURER'S TOLERANCES EXCEPT WHERE ALLOWABLE TOLERANCES ARE SHOWN.



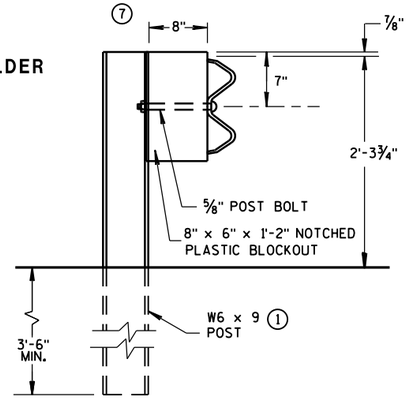
END VIEW
LOCATED ALONG A ROADWAY SHOULDER
STANDARD INSTALLATION



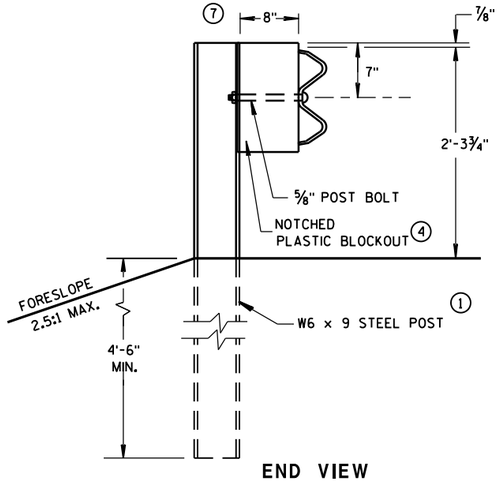
END VIEW
SETTING STEEL OR WOOD POST IN ROCK ⑥



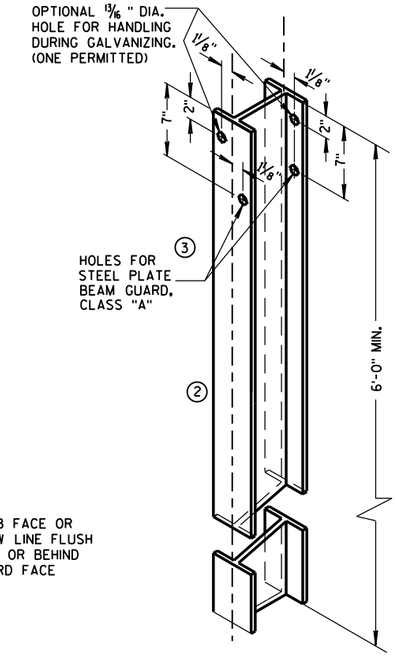
END VIEW
LOCATED ALONG A CURBED ROADWAY



END VIEW
STEEL POST & NOTCHED
PLASTIC BLOCKOUT ALTERNATIVE
STANDARD INSTALLATION

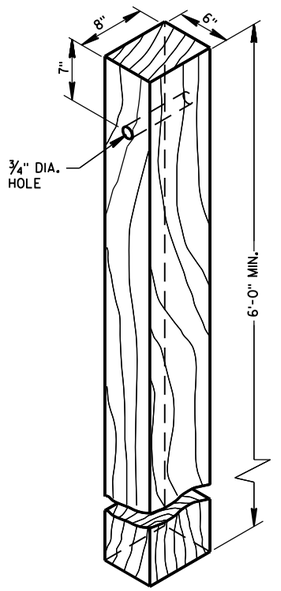


END VIEW
LONGER POST AT HALF
POST SPACING W BEAM
(LHW)

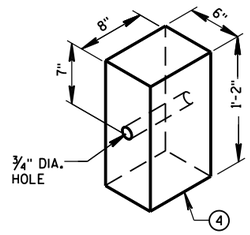


STEEL POST &
HOLE PUNCHING DETAIL
(W6 X 9) ①

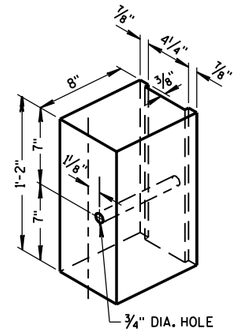
ALL HOLES 13/16" DIAMETER EXCEPT AS NOTED



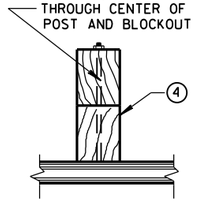
WOOD POST
(6"X8") NOMINAL



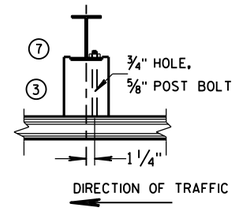
WOOD OR PLASTIC
BLOCKOUT FOR
WOOD POSTS



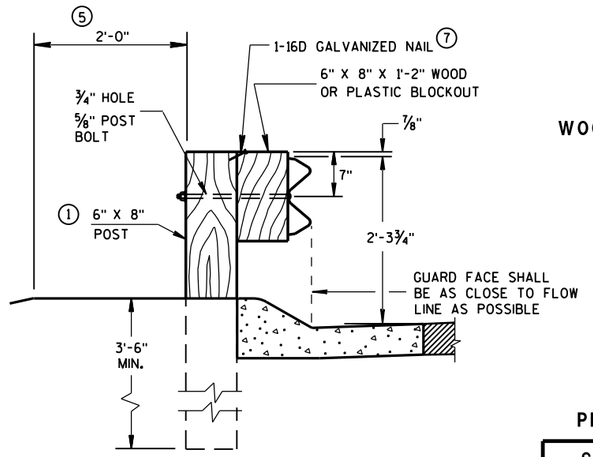
TYPICAL NOTCHED ①
PLASTIC BLOCKOUT
FOR STEEL POSTS



PLAN VIEW
WOOD POST, BLOCKOUT & BEAM



PLAN VIEW
STEEL POST, NOTCHED
PLASTIC BLOCKOUT & BEAM



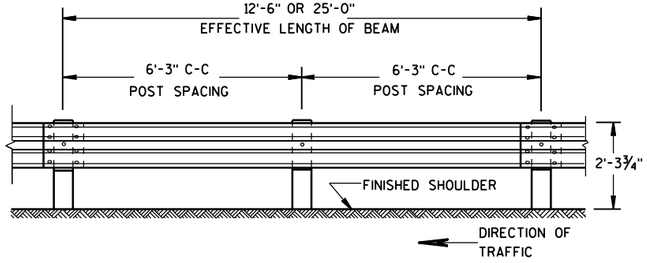
END VIEW
LOCATED ALONG A
MOUNTABLE CURBED ROADWAY

STEEL PLATE BEAM GUARD,
CLASS "A"
INSTALLATION & ELEMENTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

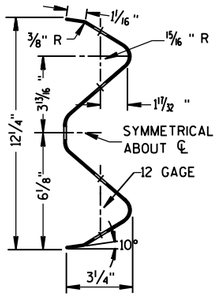
TYPICAL INSTALLATION OF STEEL PLATE BEAM GUARD

6
S.D.D. 14 B 15-9a

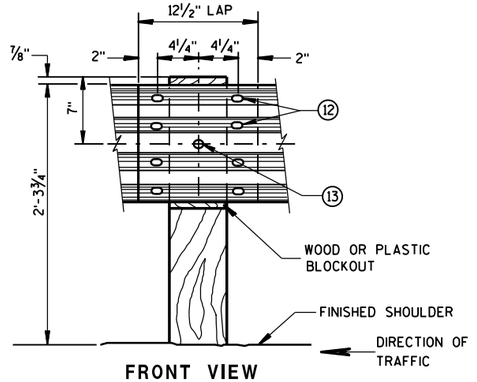


FRONT VIEW

POST SPACING STANDARD INSTALLATION



SECTION THRU W BEAM



FRONT VIEW

BEAM SPLICE AT WOOD POST AND POST MOUNTING DETAIL

GENERAL NOTES

(8) PROVIDE SILVER REFLECTIVE SHEETING ON ALL REFLECTORS EXCEPT THOSE LOCATED ALONG THE LEFT EDGE OF ONE-WAY ROADWAYS, WHICH SHALL BE PROVIDED WITH YELLOW REFLECTIVE SHEETING. SHEETING IS TYPE H. SEE STANDARD SPECIFICATION 637.

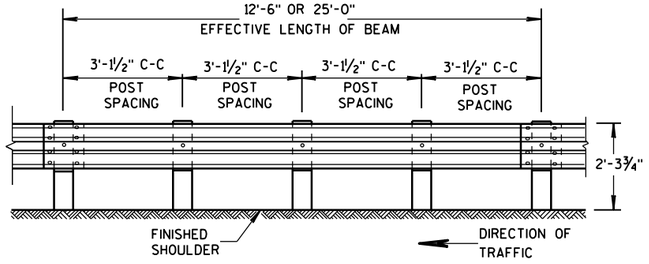
(9) DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

(10) REVERSE EVERY OTHER REFLECTOR FOR 2-WAY VISIBILITY. THE CONTRACTOR MAY FURNISH TWO-SIDED REFLECTORS IN LIEU OF ONE-SIDED REFLECTORS.

(11) PROVIDE AN ANGLE OF BEND OF 90° ± 1° FOR TWO-SIDED REFLECTORS.

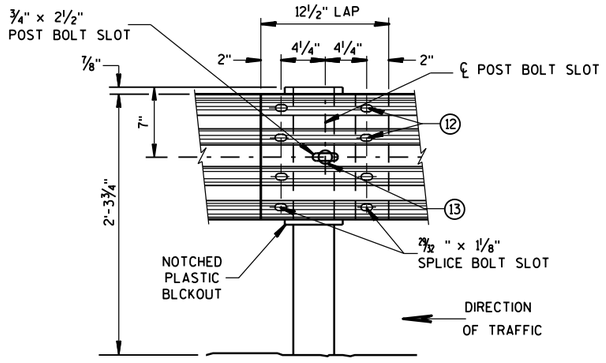
(12) 8 -⅝" ϕ X 2" BUTTON HEAD BOLTS WITH OVAL SHOULDERS & RECESS NUTS.

(13) ⅝" DIA. BUTTON HEAD BOLT AND RECESS NUT WITH ⅝" DIA. F844 FLAT WASHER UNDER NUT.



FRONT VIEW

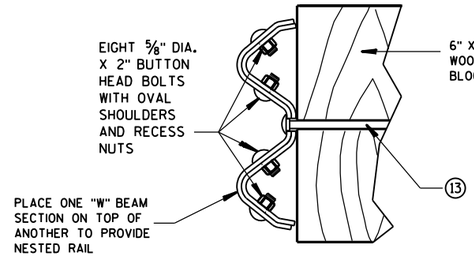
POST SPACING FOR LONGER POST AT HALF POST SPACING W BEAM (LHW)



FRONT VIEW

BEAM SPLICE AT STEEL POST

TYPICAL SPLICING DETAILS OF STEEL PLATE BEAM GUARD

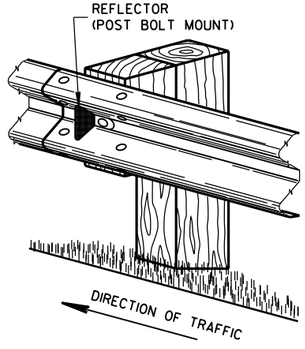


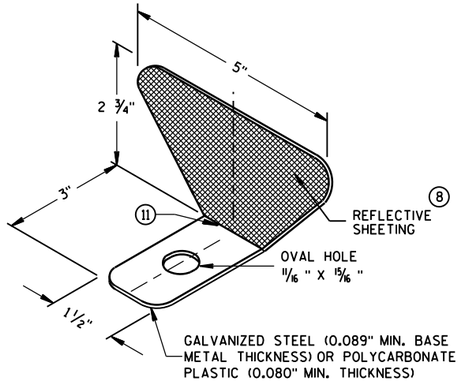
NESTED W BEAM (NW)

USE ALL OTHER STANDARD BEAM GUARD DETAILS FOR CONSTRUCTING NESTED W BEAM (NW)

REFLECTOR SPACING (9)

	BEAM GUARD LENGTH	REFLECTOR SPACING	NO. SURFACES REFLECTORIZED	MIN. NO. REFLECTORS
ONE WAY TRAFFIC	< 200'	50' C-C	1	3
	> 200'	100' C-C	1	
TWO WAY TRAFFIC	< 200'	25' C-C	1 (10)	6
	> 200'	50' C-C	1	
TWO WAY TRAFFIC	< 200'	50' C-C	2 (11)	3
	> 200'	100' C-C	2	





ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION (8)

STEEL PLATE BEAM GUARD,
CLASS "A",
INSTALLATION & ELEMENTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

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S.D.D. 14 B 15-9b

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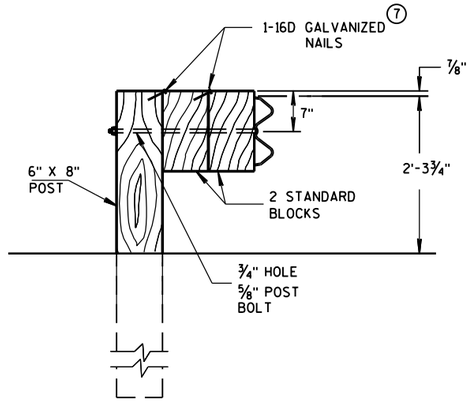
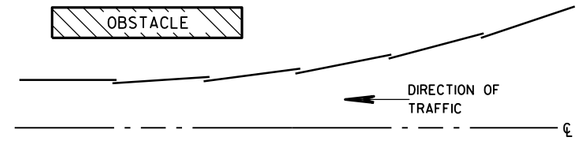
S.D.D. 14 B 15-9b

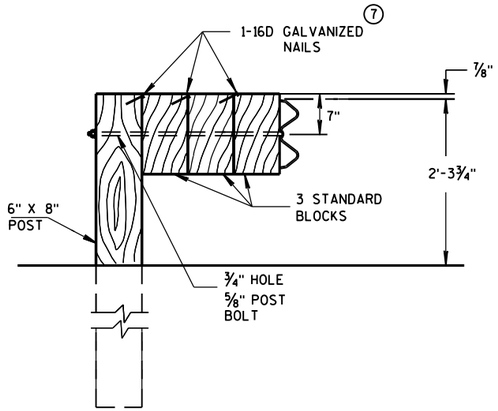


DETAIL FOR DOUBLE BLOCKS

THE NUMBER OF DOUBLE BLOCK POSTS WITHIN A BARRIER RUN IS UNLIMITED

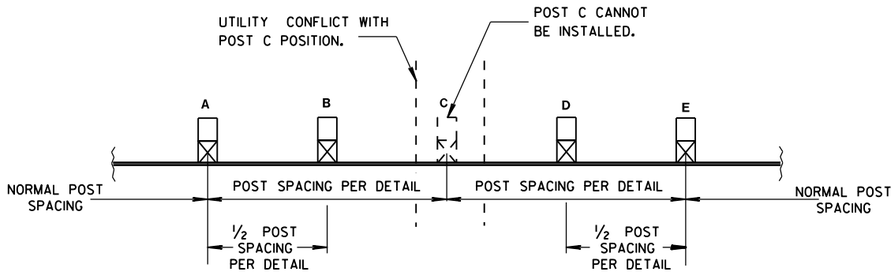


PLAN VIEW
BEAM LAPPING DETAIL



DETAIL FOR TRIPLE BLOCKS

TRIPLE BLOCK DETAIL IS LIMITED TO ONE LOCATION WITHIN A BEAM GUARD RUN.



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION

NOTES: USE DOUBLE OR TRIPLE BLOCKS WHEN UNDERGROUND OBSTACLES PREVENT THE POST FROM BEING INSTALLED.

DO NOT USE EXTRA BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS

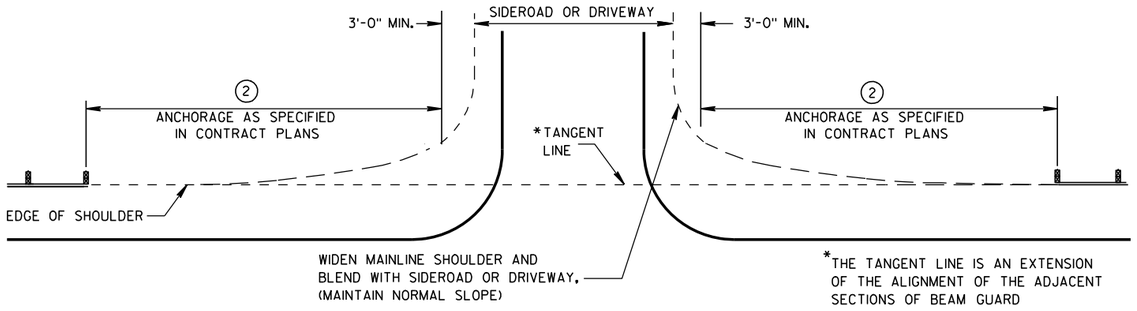
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

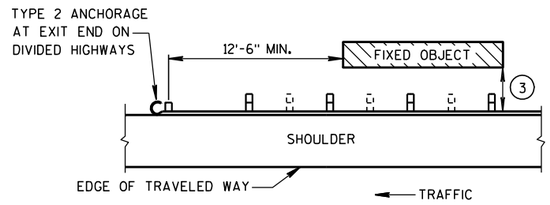
June 2016	/S/ Jerry H. Zogg	
DATE	ROADWAY STANDARDS DEVELOPMENT ENGINEER	FHWA

6

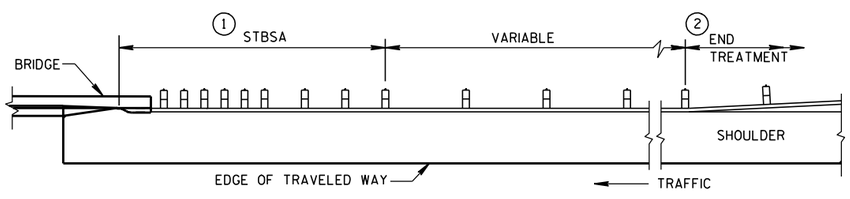
S.D.D. 14 B 15-9c



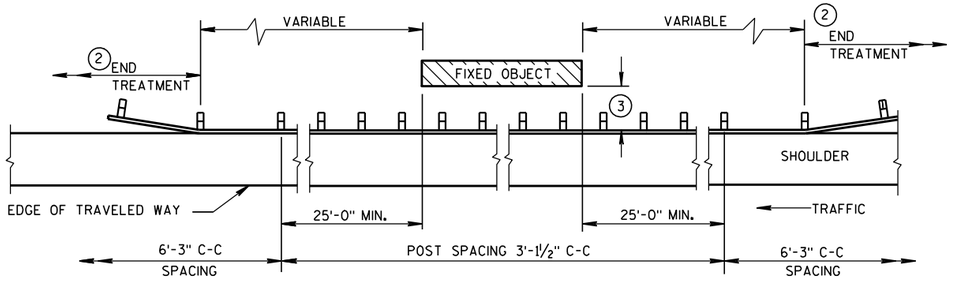
BEAM GUARD AT SIDEROADS OR DRIVEWAYS



BEAM GUARD AT OBSTACLES EXIT END - ONE WAY TRAFFIC

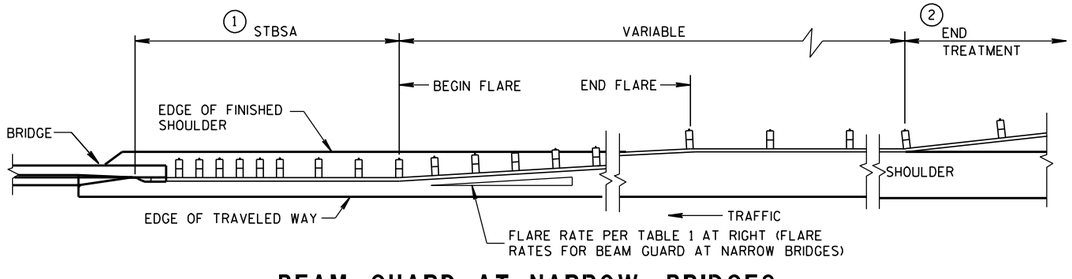


BEAM GUARD AT FULL WIDTH BRIDGES



BEAM GUARD AT OBSTACLES - TWO WAY TRAFFIC

(RAIL TO OBSTACLE CLEARANCE 3'-6" TO 4'-6")



BEAM GUARD AT NARROW BRIDGES

(FLARED TO SHOULDER EDGE, THEN PARALLEL TO ROADWAY)

TABLE 1
FLARE RATES FOR BEAM GUARD AT NARROW BRIDGES

POSTED SPEED (MPH)	FLARE RATE
25	13:1
30	15:1
35	16:1
40	18:1
45	21:1
50	24:1
55	26:1
65	30:1

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE PERTINENT STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

W6 X 9 OR W6 X 8.5 STEEL POSTS WITH NOTCHED PLASTIC BLOCKOUTS ARE ACCEPTABLE ALTERNATIVES FOR 6" X 8" WOOD POSTS WITH WOOD OR PLASTIC BLOCKOUTS. USE APPROVED NOTCHED PLASTIC BLOCKOUTS WITH STEEL POSTS.

THE LOCATIONS AND LENGTHS OF BEAM GUARD ARE SHOWN ELSEWHERE IN THE PLAN.

(1) STEEL THRIE BEAM STRUCTURAL APPROACH (STBSA) - SEE CURRENT SDD 14B20.

(2) USE AN APPROVED END TREATMENT FOR THE TRAFFIC APPROACH SIDE OF BRIDGE/OBSTACLES. USE TYPE 2 ANCHORAGE ONLY AT THE DOWNSTREAM ENDS OF BEAM GUARD LOCATED ALONG ROADWAYS WITH ONE WAY TRAFFIC.

(3)

MINIMUM LATERAL DISTANCE FROM FACE OF BEAM GUARD TO FIXED OBJECT	POST SPACING
3'-6"	3' - 1½"
4'-6"	6' - 3"

STEEL PLATE BEAM GUARD CLASS "A" AT BRIDGES, OBSTACLES AND SIDEROADS/DRIVEWAYS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

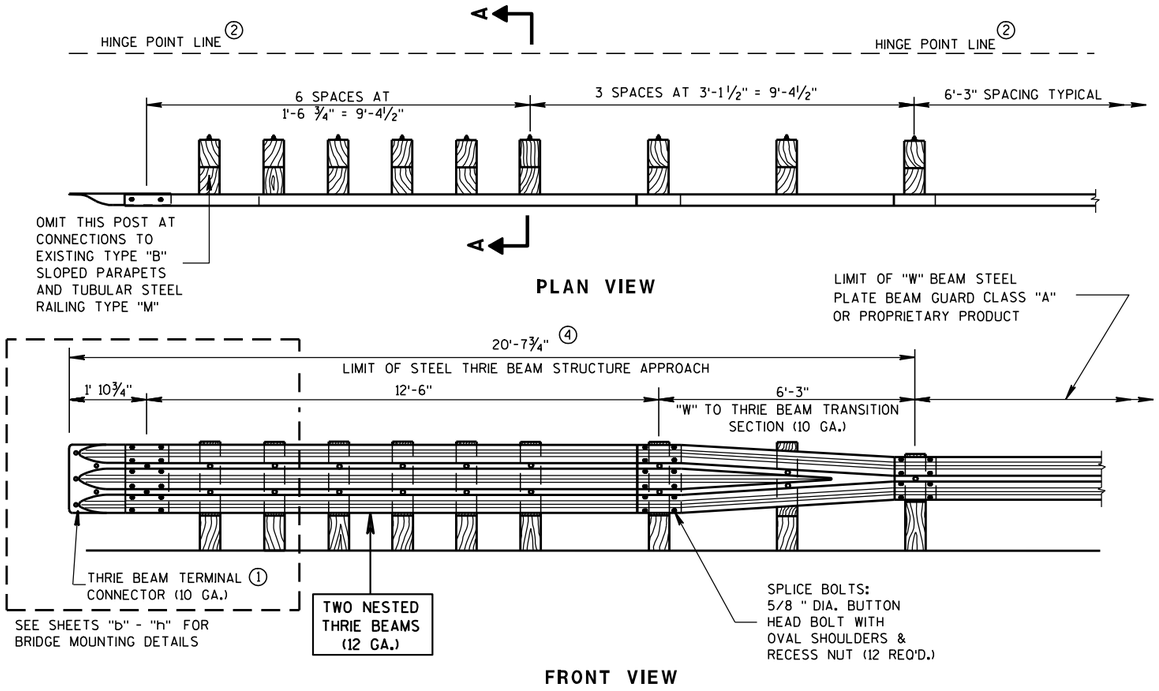
8-21-07
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA

6

S.D.D. 14 B 18-6a



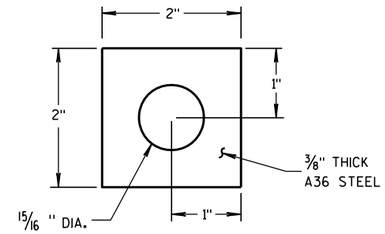


PLATE WASHER DETAIL

GENERAL NOTES

BOLT THE THRIE BEAM TO ALL POSTS AND BLOCKOUTS. DRILL OR PUNCH BOLT HOLES IN THE BEAM IF THE POST SPACING IS LESS THAN 6'-3".

DO NOT USE STEEL POSTS AND NOTCHED PLASTIC BLOCKOUTS IN THE STEEL THRIE BEAM STRUCTURAL APPROACH AND THE TRANSITION SECTION OF STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATIONS.

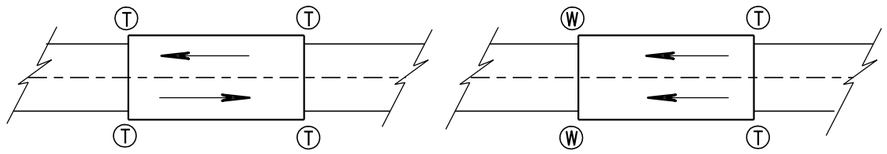
IF ROCK IS ENCOUNTERED, REMOVE ROCK TO FULL DEPTH OF POST PLUS 2 1/2" , AND 12" DIAMETER AROUND POST. SEE 14B15 FOR MORE DETAILS.

① BRIDGE RAILING TYPE "W" DOES NOT REQUIRE A TERMINAL CONNECTOR.

② MINIMUM EMBEDMENT SHALL BE 4'-0". WHERE EXISTING CONDITIONS DO NOT PERMIT THE APPROPRIATE EARTHWORK SHOWN ON THE PLAN TYPICAL SECTIONS OR DETAILS, THE ENGINEER MAY ALLOW THE REDUCTION OR ELIMINATION OF THE 2 FOOT DISTANCE TO THE HINGE POINT. OTHERWISE BUILD AS THE PLAN SHOWS OR AS THE ENGINEER DIRECTS. IF THE 2 FOOT DISTANCE TO THE HINGE POINT IS REDUCED OR ELIMINATED, INCREASE THE POST EMBEDMENT DEPTH TO 4'-6" OR MORE.

③ POST BOLTS ARE 5/8" DIAMETER ASTM A307 BUTTON HEAD BOLT. A POST BOLT REQUIRES A 5/8" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX AND A 5/8" DIAMETER F844 FLAT WASHER. LENGTH OF POST BOLT MAY VARY.

④ ALL WOOD POSTS MUST BE 6" X 8" AND AT LEAST 7'-0" LONG.



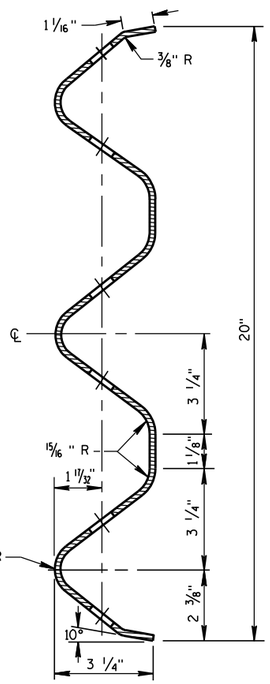
TWO WAY TRAFFIC

ONE WAY TRAFFIC

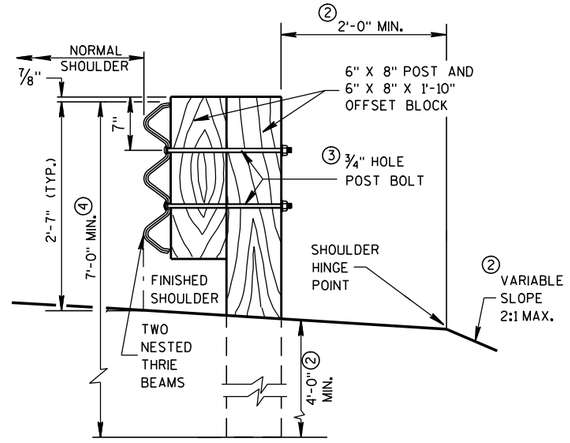
T THRIE BEAM CONNECTION

W W-BEAM CONNECTION WHEN REQUIRED

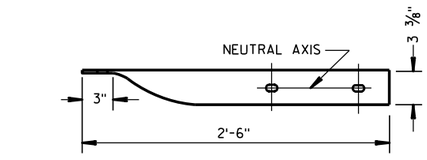
TYPICAL LOCATIONS OF THRIE BEAM AND W-BEAM CONNECTIONS TO BRIDGE

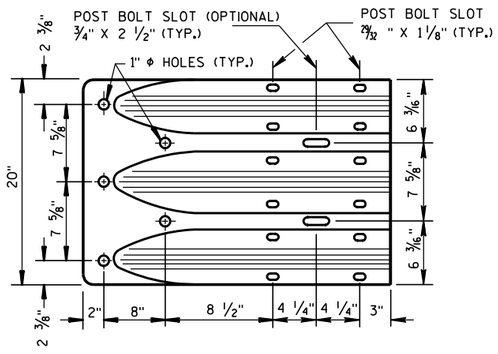


SECTION THRU THRIE BEAM RAIL ELEMENT

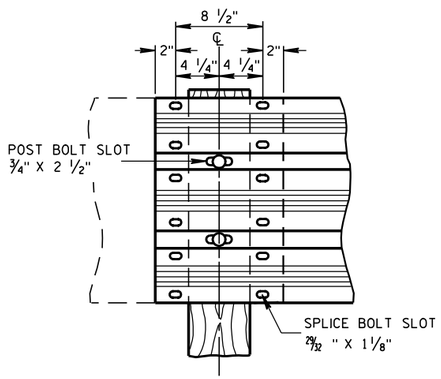


SECTION A-A





THRIE BEAM TERMINAL CONNECTOR



THRIE BEAM SPLICE

STEEL THRIE BEAM STRUCTURE APPROACH

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

8/31/2012 — DATE

/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER

FHWA

BILL OF MATERIALS

NOTE NO.	QTY.	DESCRIPTION
(1)	4	WOOD BREAKAWAY TERMINAL POST: 5½" X 7½" X 3'-9"
(2)	**	STEEL TUBE: OPTION 1 - QUANITY OF 4 TS 8" X 6" X 0.188", 4'-6" LONG OR OPTION 2 - QUANITY OF 2 TS 8" X 6" X 0.188", 6'-0" AND 2 TS 8" X 6" X 0.188", 4'-6" LONG
(3)	2	SOIL PLATE: 2'-0" X 1'-6" X ¼" **
(4)	4	WOOD BREAKAWAY CRT POST: 6" X 8" X 6'-0"
(5)	6	WOOD OFFSET BLOCKS: 6' X 8" X 1'-2"
(6)	1	PIPE SLEEVE: 2" X 5 ½" STANDARD PIPE
(7)	1	BEARING PLATE
(8)	1	BCT CABLE ASSEMBLY
(9)	1	CABLE ANCHOR BOX
(10)	1	STRUT & YOKE
(11)	1	STEEL PLATE BEAM, END PANEL 12 GA. 13'-6½" LONG FOR SKT-350, ET-2000 AND ET-2000 PLUS
(12)	3	STEEL PLATE BEAM: 12 GA. 13'-6½"
(13)	1	ET-2000/ET-2000 PLUS GUARDRAIL EXTRUDER OR SKT-350 IMPACT HEAD: AS FURNISHED BY MANUFACTURER
(14)	1	0.040" ALUMINUM SHEET WITH REFLECTIVE SHEETING TYPE F PER SECTION 637 OF THE STANDARD SPECIFICATIONS
(15)	1	E.A.T. MARKER POST

GENERAL NOTES

FOLLOW MANUFACTURE'S BOLTING RECOMMENDATIONS. IF NONE ARE AVAILABLE, INSTALL ⅝" ø X 1'-6" BUTTON HEAD BOLTS AT ALL POSTS EXCEPT FOR POST 1.

(A) THE SLOPE IN THE AREA BOUNDED BY THE GRADELINE, THE HINGE POINT LINE (HPL), AND THE CLEAR ZONE LIMITS (CZL) SHALL BE 4:1 OR FLATTER.

(B) AFTER FINAL ASSEMBLY, RECHECK CABLE TO BE SURE IT IS TAUT AND HAS NOT RELAXED.

(C) THE 13 SLOT FIRST RAIL PANEL MAY BE USED IN LIEU OF THE 3 SLOT RAIL PANEL ON SKT-350 ONLY.

(D) THE TOP OF THE STEEL TUBE ON POSTS 1 THROUGH 4 SHALL NOT BE MORE THAN 3" ABOVE THE FINISH GROUND ELEVATION.

(E) THE CENTER OF THE UPPER 3½" DIAMETER HOLE ON POST 5 THROUGH 8 SHALL BE ¾" ABOVE THE FINISHED GROUND LINE.

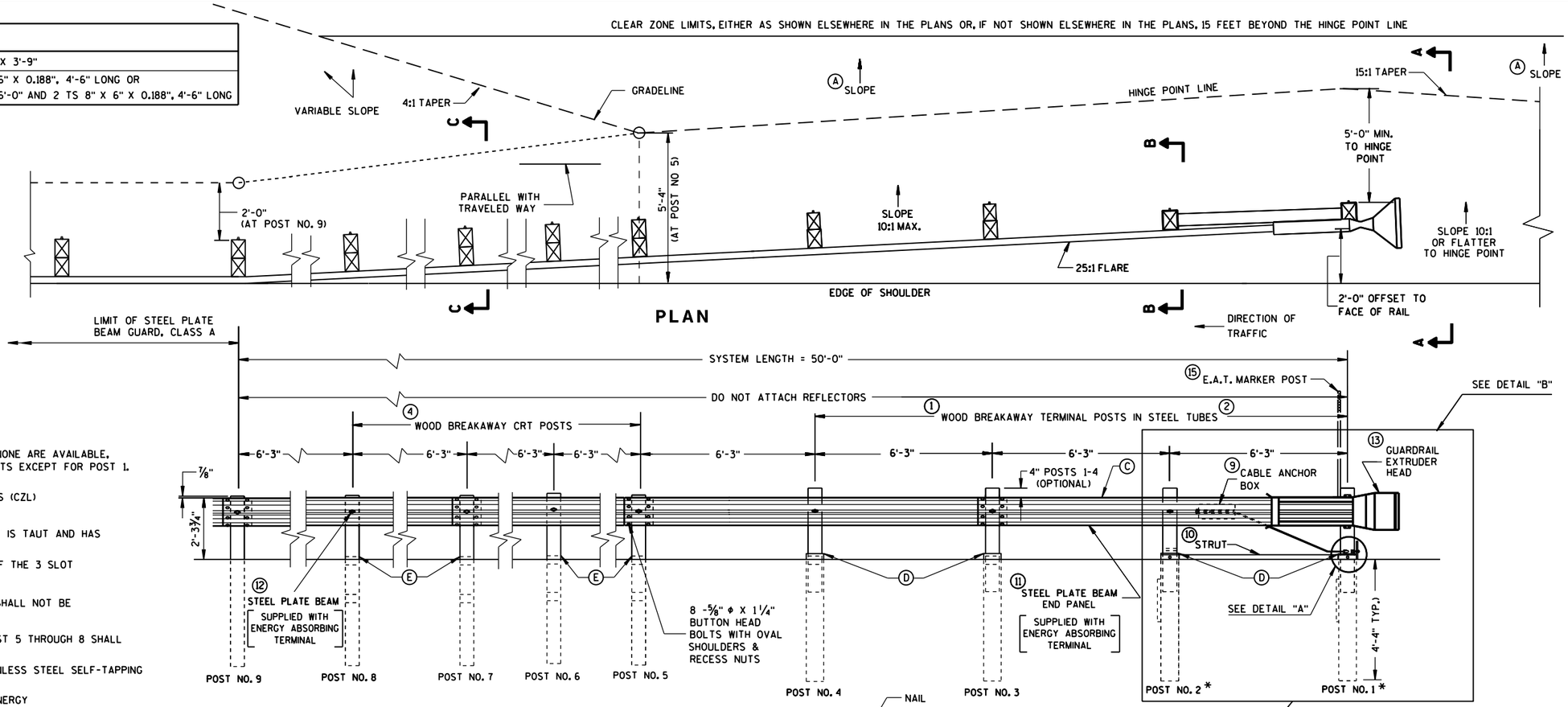
(F) ATTACH ALUMINUM SHEET TO E.A.T. HEAD USING 4 STAINLESS STEEL SELF-TAPPING SCREWS. ONE SCREW PER CORNER.

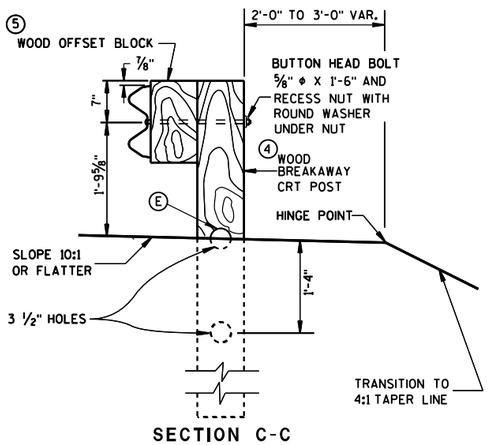
STEEL POSTS SHALL NOT BE ALLOWED FOR USE WITH ENERGY ABSORBING TERMINALS.

DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

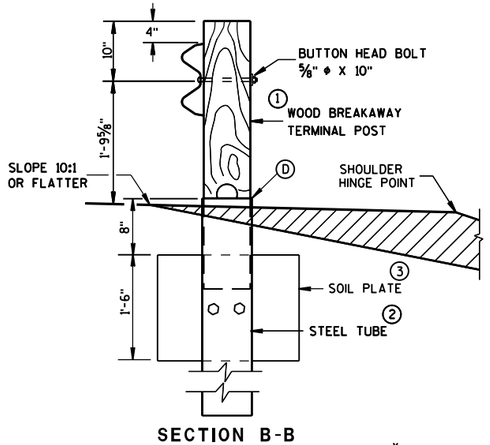
* DO NOT ATTACH BLOCKOUTS TO POSTS 1 AND 2.

** SDD SHOWS 4 - 54 INCH STEEL TUBES WITH SOIL PLATES INSTALLED ON POST 1 AND POST 2. POST 3 AND 4 DO NOT NEED SOIL PLATES. AN ALTERNATIVE INSTALLATION WOULD CONSIST OF 2 - 72 INCH STEEL TUBES ON POST 1 AND POST 2 AND 54 INCH SOIL TUBES ON POSTS 3 AND 4. THE ALTERNATIVE INSTALLATION DOES NOT REQUIRE SOIL PLATES.

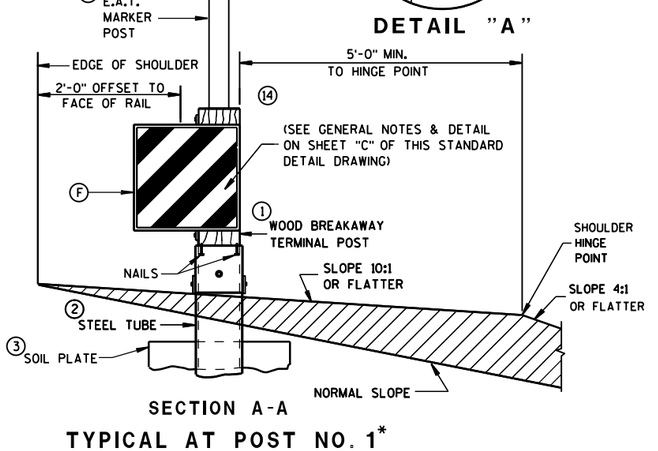




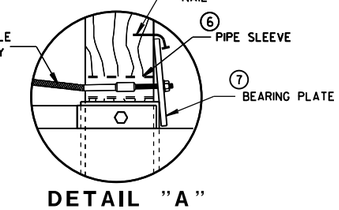
SECTION C-C
TYPICAL AT POST NOS. 6, 8



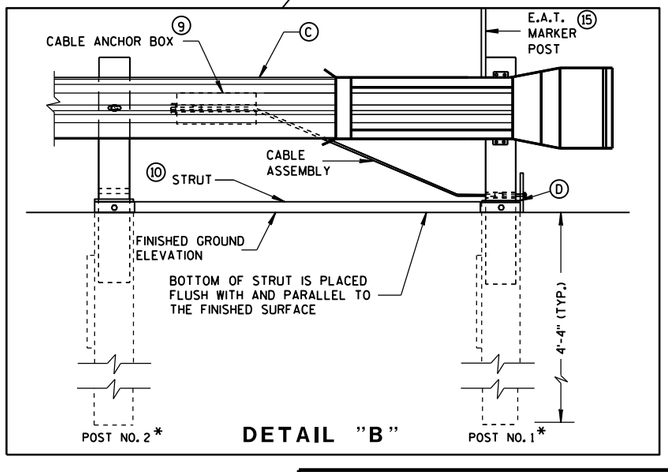
SECTION B-B
TYPICAL AT POST NO. 2*



SECTION A-A
TYPICAL AT POST NO. 1*



DETAIL "A"



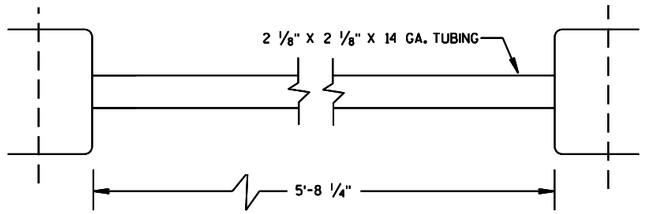
DETAIL "B"

STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL

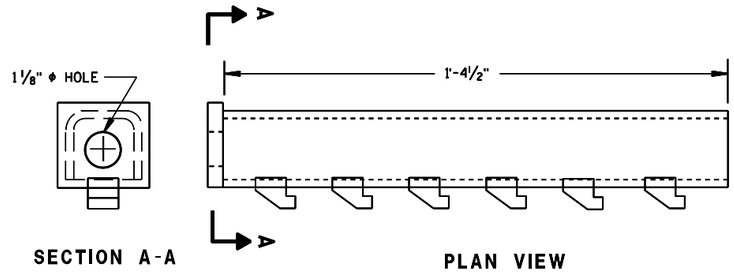
STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

6

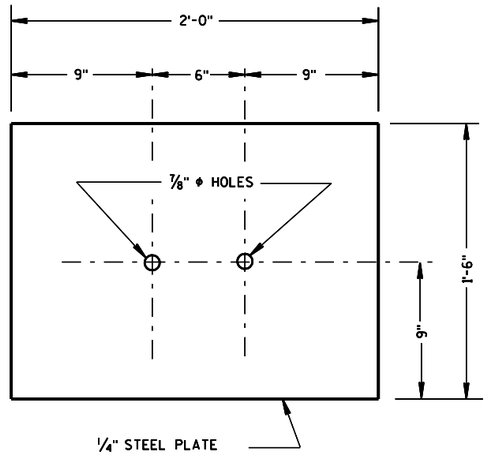
S.D.D. 14 B 24-8a



⑩ STRUT DETAIL (SKT-350)

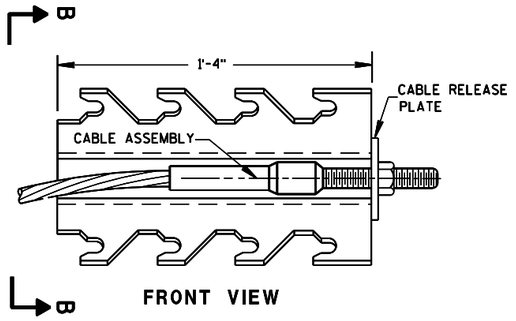


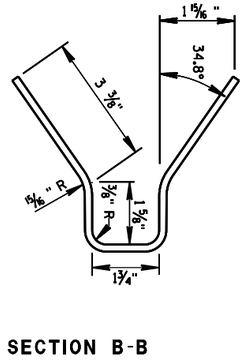
⑨ CABLE ANCHOR BOX (ET-2000/ET-2000 PLUS)



③ SOIL PLATE

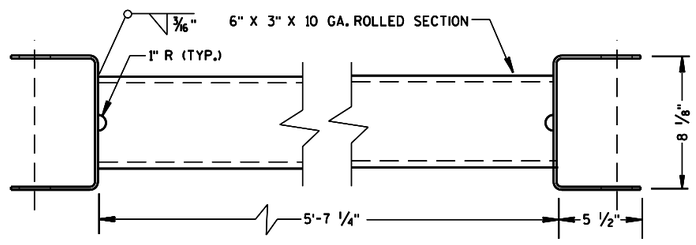
(SKT-350, ET-2000/ET-2000 PLUS)





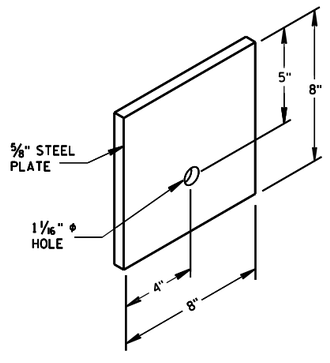
⑨ CABLE ANCHOR BOX (SKT-350)

(SKT-350)



⑩ STRUT DETAIL (ET-2000/ET-2000 PLUS)

(ET-2000/ET-2000 PLUS)



⑦ STEEL BEARING PLATE

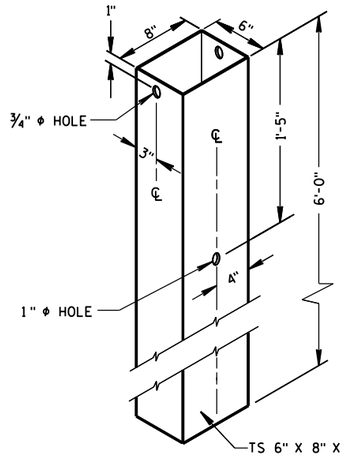
(SKT-350, ET-2000/ET-2000 PLUS)

STEEL PLATE BEAM GUARD
ENERGY ABSORBING TERMINAL

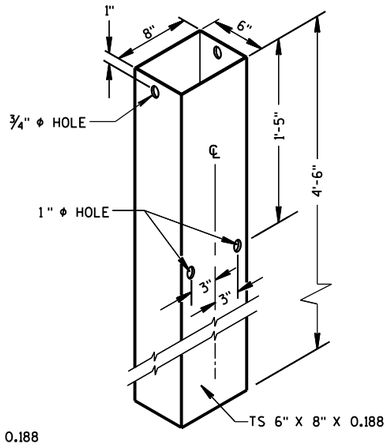
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

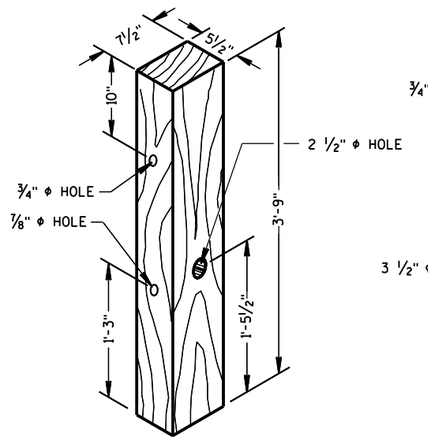
S.D.D. 14 B 24-8b



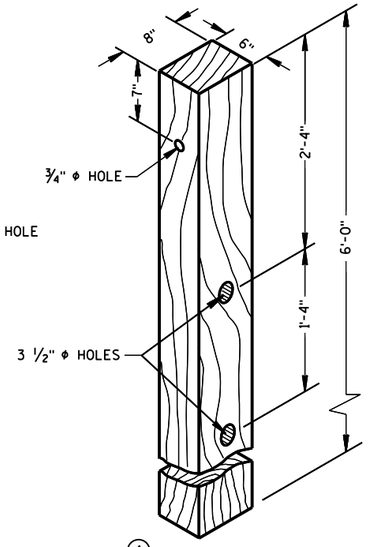
② 72" STEEL TUBE
(POSTS NO. 1-4



② 54" STEEL TUBE
(POSTS NO. 1-4



① TERMINAL POST
(POSTS NO. 1-4



④ CRT POST
(POSTS NO'S 5-8

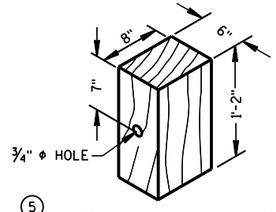
WOOD BREAKAWAY POSTS

GENERAL NOTES

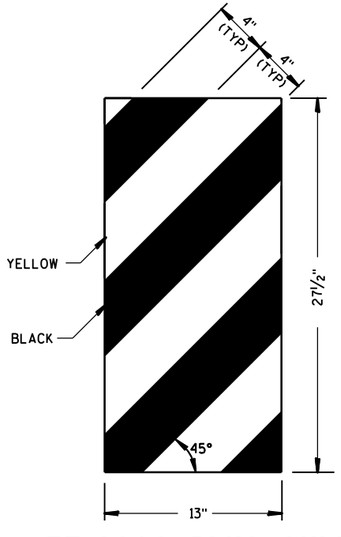
WHEN ROCK IS ENCOUNTERED DURING EXCAVATION, A 12 INCH DIA. POST HOLE EXTENDING 20 INCHES DEEP INTO THE ROCK MAY BE USED IF APPROVED BY THE ENGINEER. GRANULAR MATERIAL SHALL BE PLACED IN THE BOTTOM OF THE HOLE APPROXIMATELY 2 ½" INCHES DEEP TO PROVIDE DRAINAGE. THE SOIL TUBES SHALL BE FIELD CUT TO LENGTH, PLACED IN THE HOLE AND BACKFILLED WITH ADEQUATELY COMPACTED MATERIAL EXCAVATED FROM THE HOLE.

SEE APPROVED PRODUCTS LIST FOR ACCEPTABLE E. A. T. MARKER POST.

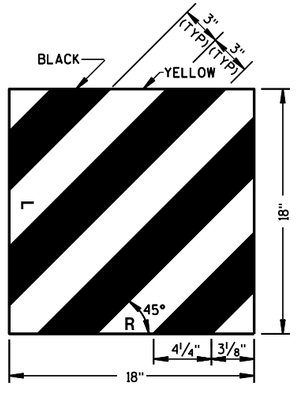
(G) ½" DIA. X 3" LAG BOLT WITH WASHER.



⑤ WOOD OFFSET BLOCK
REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2

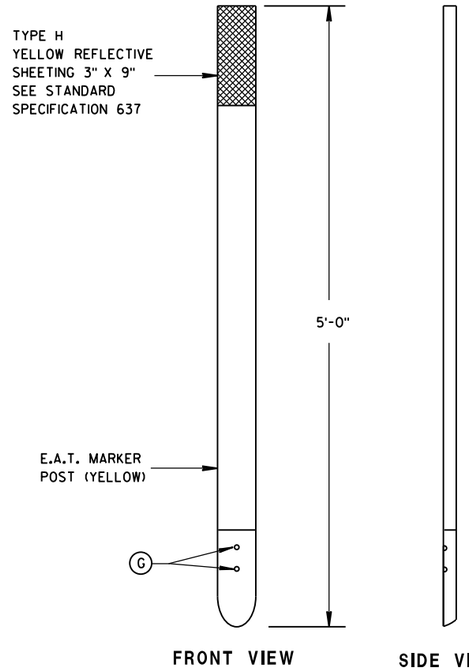


ET-2000 PLUS ONLY

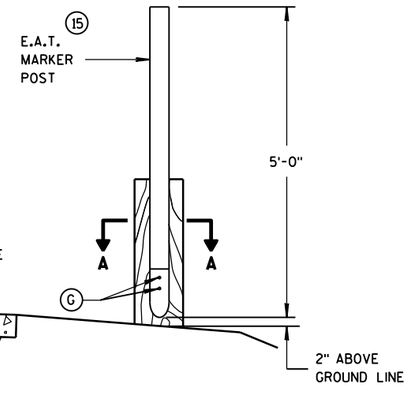


ET-2000 AND SKT-350

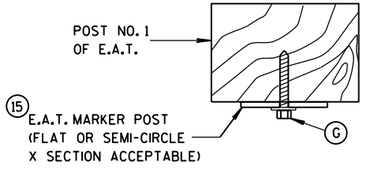
⑭ REFLECTIVE SHEETING DETAILS



⑮ E.A.T. MARKER POST



TYPICAL INSTALLATION OF E.A.T.
MARKER POST BACKSIDE OF POST NO. 1
(E.A.T. AND RAIL REMOVED FOR CLARITY)



SECTION A-A

STEEL PLATE BEAM GUARD
ENERGY ABSORBING TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

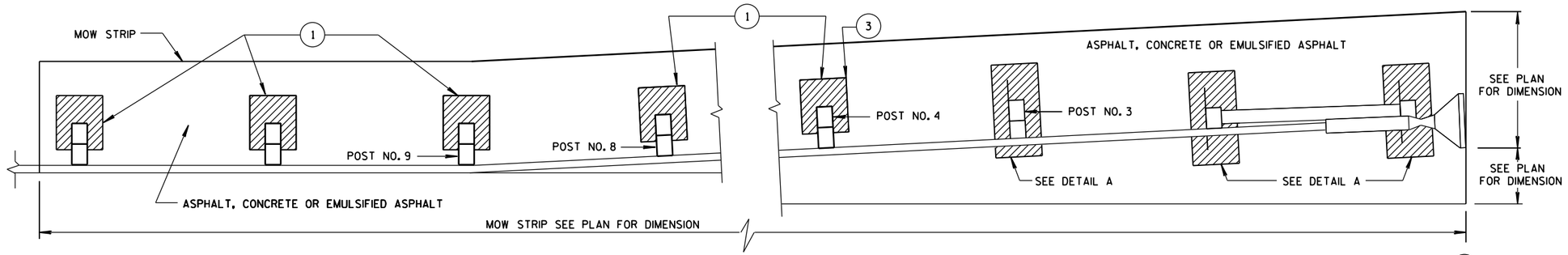
APPROVED
June 2014
DATE
/S/ Jerry H. Zoda
ROADWAY STANDARDS ENGINEER
FHWA

6

S.D.D. 14 B 24-8c

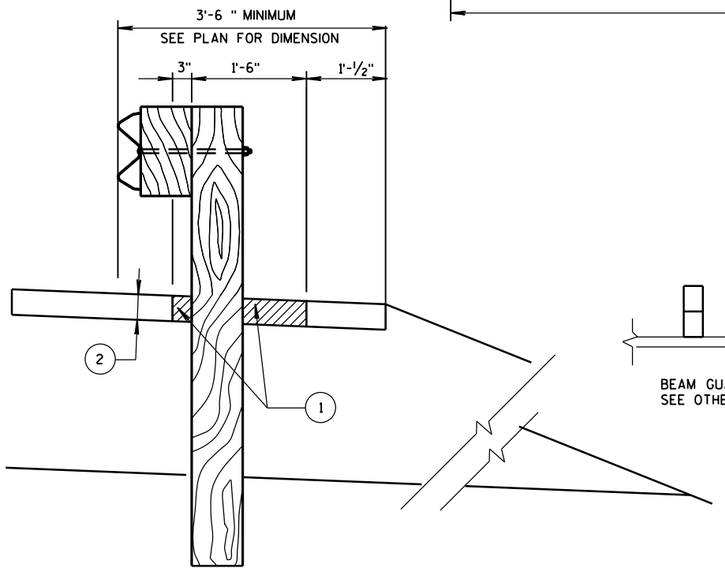
6

S.D.D. 14 B 24-8c

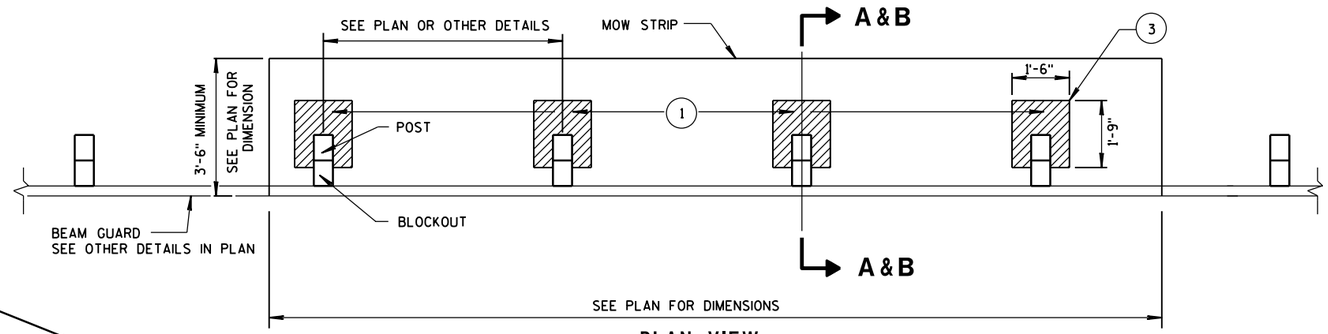


PLAN VIEW

MOW STRIP LAYOUT FOR ENERGY ABORBING TERMINAL

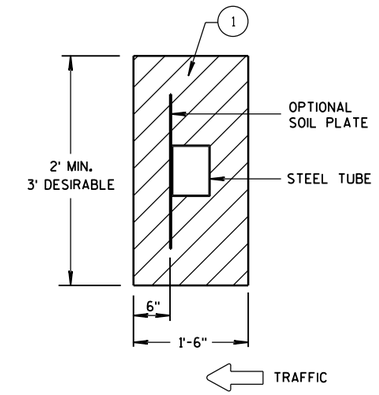


SECTION A-A

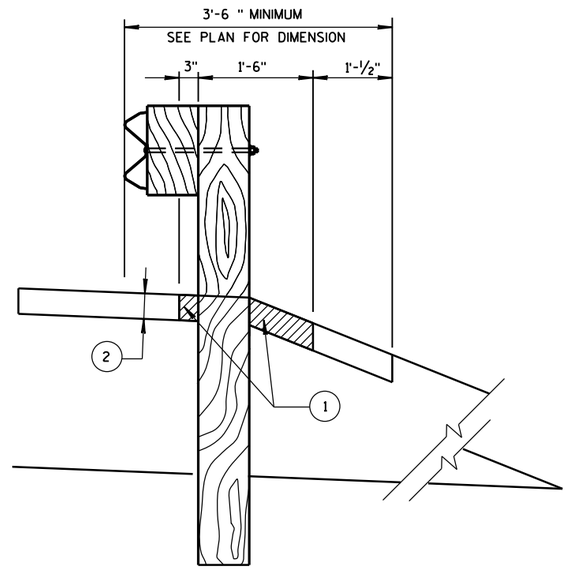


PLAN VIEW

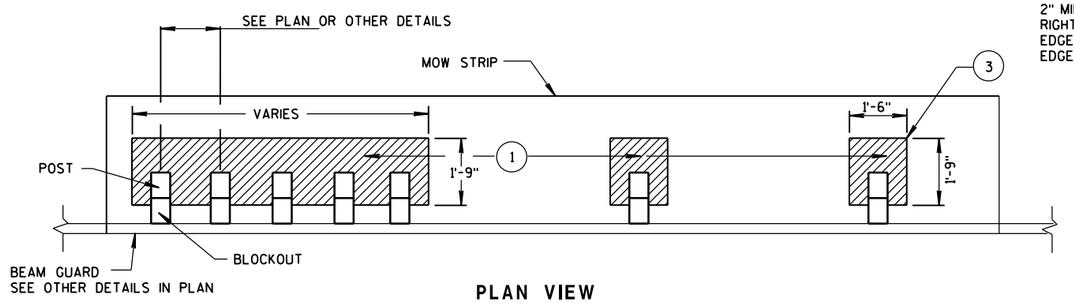
MOW STRIP FOR TYPICAL BLOCKOUT LAYOUT



DETAIL A

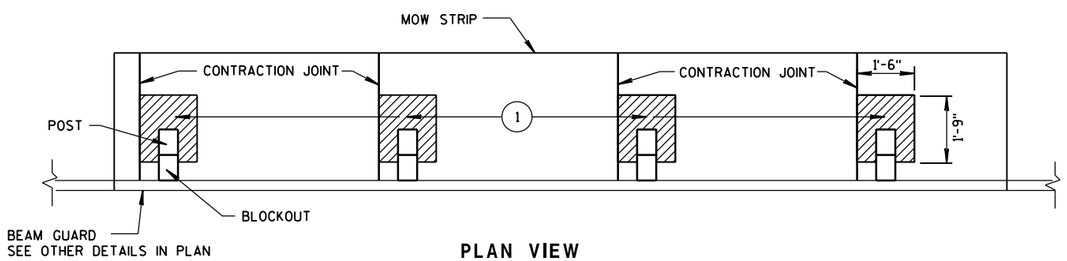


SECTION B-B



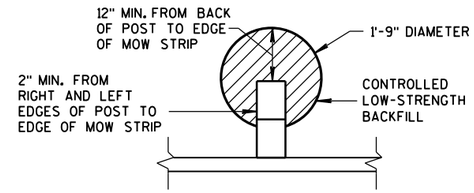
PLAN VIEW

MOW STRIP FOR TIGHT SPACING LAYOUT



PLAN VIEW

JOINT PLACEMENT FOR CONCRETE MOW STRIP



ALTERNATIVE HMA
MOW STRIP DESIGN

(1) CONTROLLED LOW-STRENGTH BACKFILL OR EMULSIFIED ASPHALT.

(2) DEPTH OF MOW STRIP:
ASPHALT - 4"
CONCRETE - 4"
EMULSIFIED ASPHALT - 1" OR LESS

(3) FOR EMULSIFIED ASPHALT MOW STRIP LEAVE OUTS NOT REQUIRED. (TYPICAL FOR ALL POSTS.)

GUARDRAIL MOW STRIP

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2014
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

NT

6

S.D.D. 14 B 28-3

6

S.D.D. 14 B 28-3

① WOOD OR STEEL POSTS (w6X9 OR w6X8.5) MAY BE USED. DO NOT INTERMIX WOOD AND STEEL POSTS. INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.

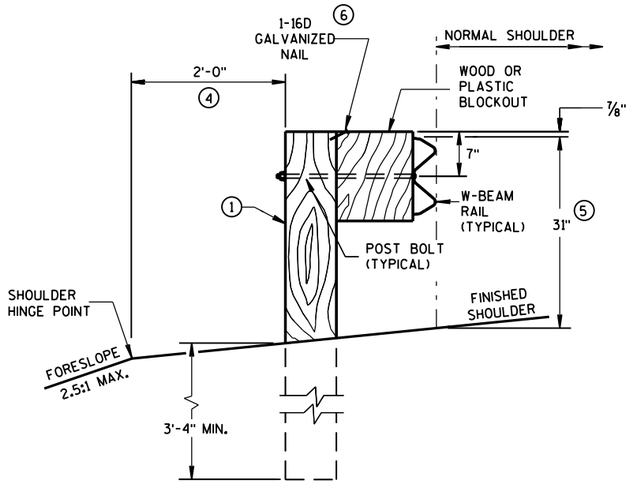
② USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.

③ IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2½ INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS TO BE FREE OF LARGE ROCKS.

④ WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).

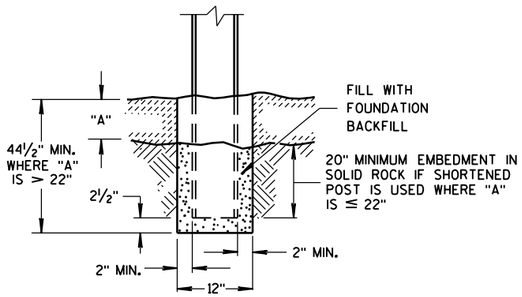
⑤ FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ± 1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27¾" TO 32".

⑥ WHEN USING STEEL POST AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.



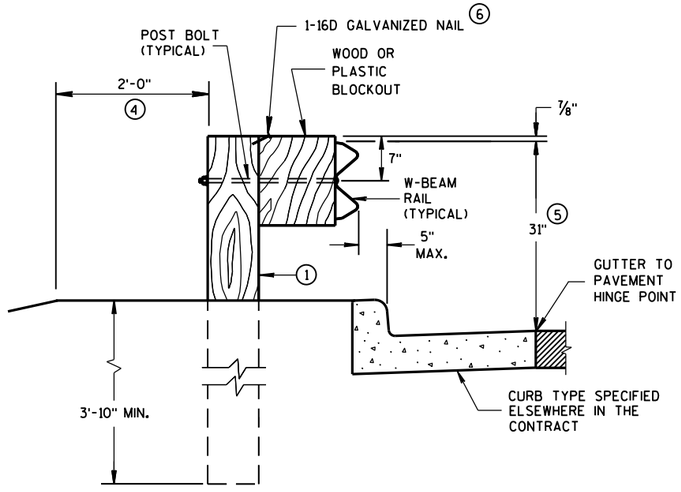
END VIEW

LOCATED ALONG A ROADWAY SHOULDER
STANDARD INSTALLATION



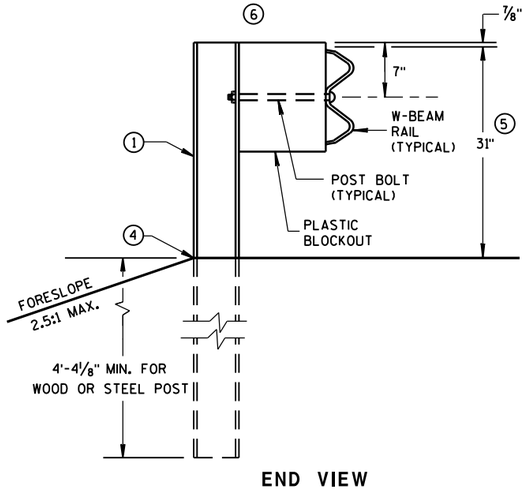
END VIEW

SETTING STEEL OR WOOD POST IN ROCK ③



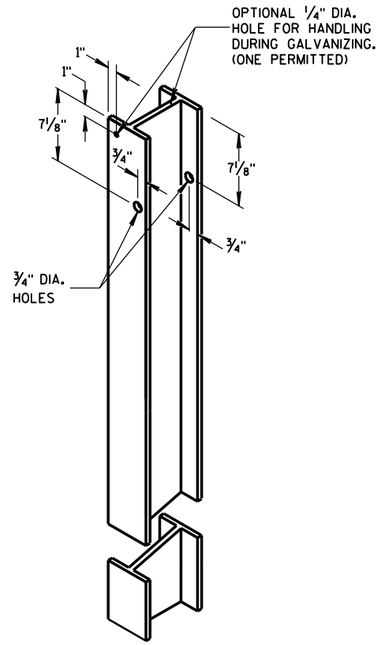
END VIEW

LOCATED ALONG A CURBED ROADWAY

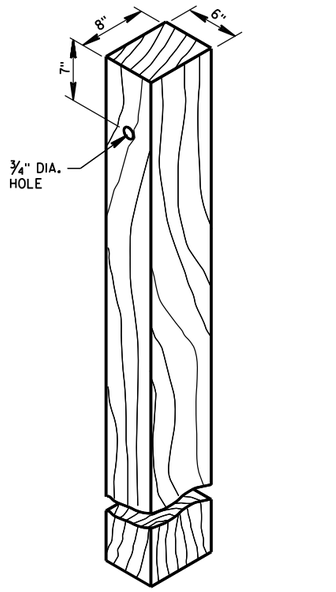


END VIEW

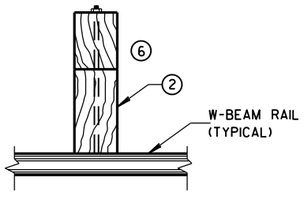
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



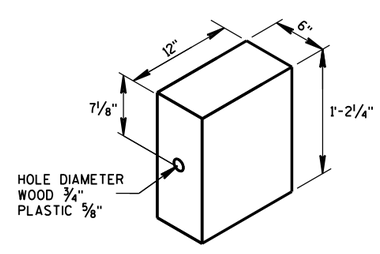
STEEL POST &
HOLE PUNCHING DETAIL
(w6X9) ①



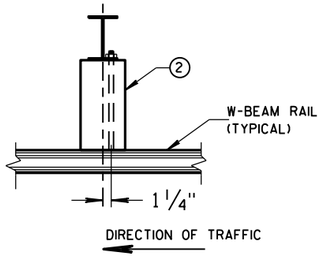
WOOD POST
(6" X 8") NOMINAL ①



PLAN VIEW
WOOD POST,
BLOCKOUT & BEAM



WOOD OR
PLASTIC BLOCKOUT ②



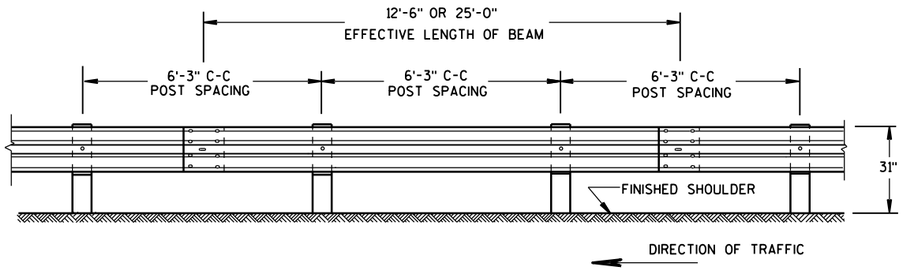
PLAN VIEW
STEEL POST,
PLASTIC BLOCKOUT & BEAM

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

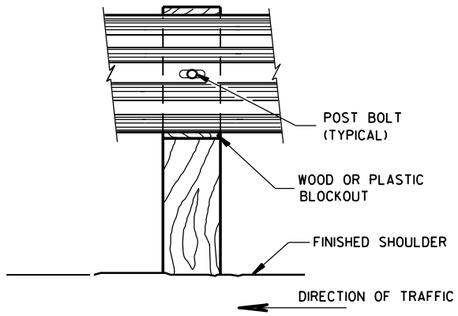
6

S.D.D. 14 B 42-4a



FRONT VIEW

POST SPACING STANDARD INSTALLATION



FRONT VIEW AT WOOD POST

7. PROVIDE SILVER REFLECTIVE SHEETING ON ALL REFLECTORS EXCEPT THOSE LOCATED ALONG THE LEFT EDGE OF ONE-WAY ROADWAYS, WHICH SHALL BE PROVIDED WITH YELLOW REFLECTIVE SHEETING. SHEETING IS TYPE H. SEE STANDARD SPECIFICATION 637.

8. DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL. RAIL SPLICE LOCATIONS ARE THE ONLY ACCEPTABLE LOCATIONS FOR REFLECTORS.

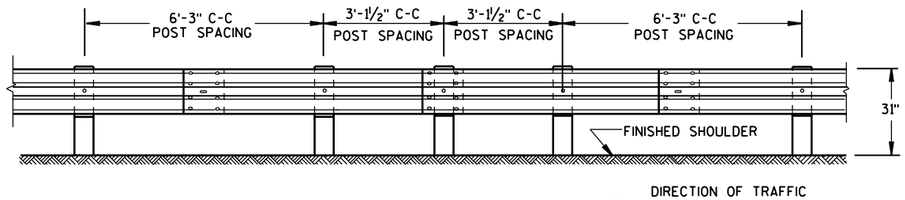
9. REVERSE EVERY OTHER REFLECTOR FOR 2-WAY VISIBILITY. THE CONTRACTOR MAY FURNISH TWO-SIDED REFLECTORS IN LIEU OF ONE-SIDED REFLECTORS.

10. PROVIDE AN ANGLE OF BEND OF 90° ± 1° FOR TWO-SIDED REFLECTORS.

11. 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.

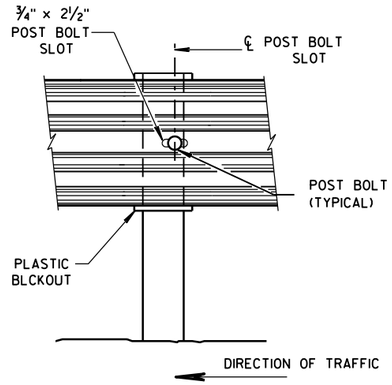
POST BOLTS ARE A 5/8" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT REQUIRES 5/8" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND 5/8" DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS ARE BEING USED.

GUARD RAIL SPLICE BOLTS ARE A 5/8" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES 5/8" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.

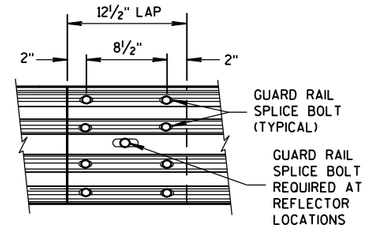


FRONT VIEW

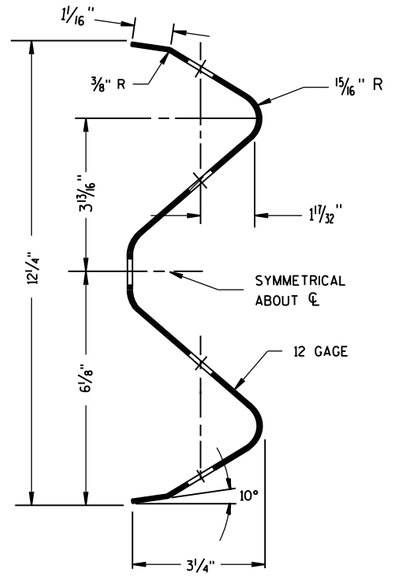
HALF POST SPACING (HS) AND HALF POST SPACING WITH LONGER POSTS (K)



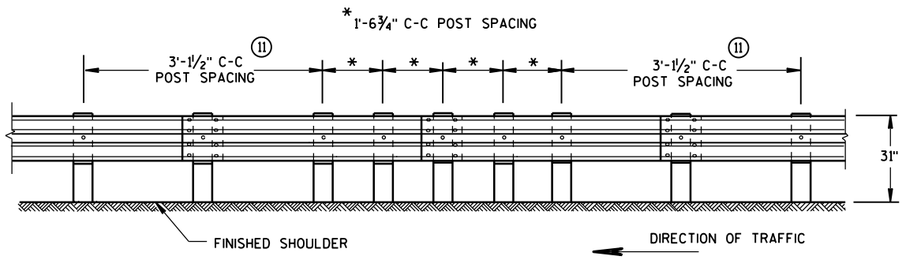
FRONT VIEW AT STEEL POST



FRONT VIEW
MID-SPAN BEAM SPLICE

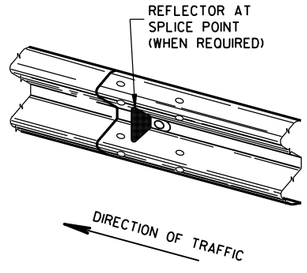


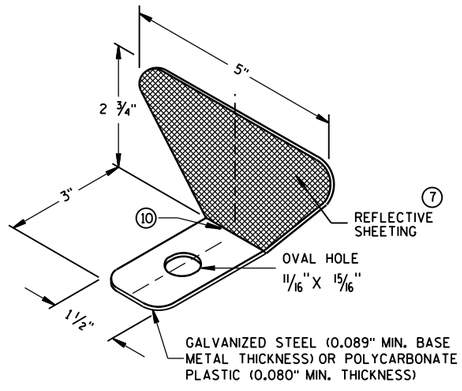
SECTION THRU W-BEAM RAIL



FRONT VIEW

QUARTER POST SPACING (QS)





REFLECTOR SPACING 8

	BEAM GUARD LENGTH	REFLECTOR SPACING	NO. SURFACES REFLECTORIZED	MIN. NO. REFLECTORS
ONE WAY TRAFFIC	< 200'	50' C-C	1	3
	> 200'	100' C-C	1	
TWO WAY TRAFFIC	< 200'	25' C-C	1 9	6
	> 200'	50' C-C	1	
TWO WAY TRAFFIC	< 200'	50' C-C	2	3
	> 200'	100' C-C	2 10	

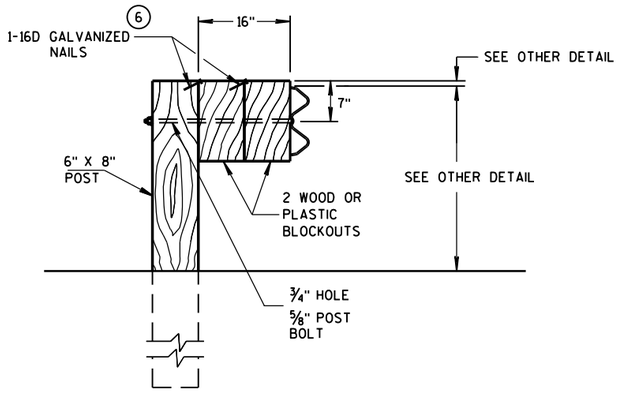
ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION 7

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

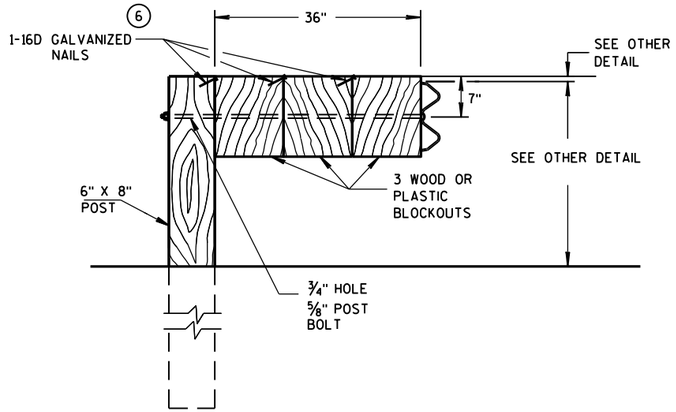
6

S.D.D. 14 B 42-4b



DETAIL FOR 16" BLOCKOUT DEPTH

IT IS ACCEPTABLE TO USE BLOCKOUTS UP TO 16" DEEP TO INCREASE THE POST OFFSET TO AVOID UNDERGROUND OBSTACLES. THERE IS NO LIMIT TO THE NUMBER OF POSTS THAT CAN HAVE ADDITIONAL BLOCKOUTS UP TO 16" DEEP.

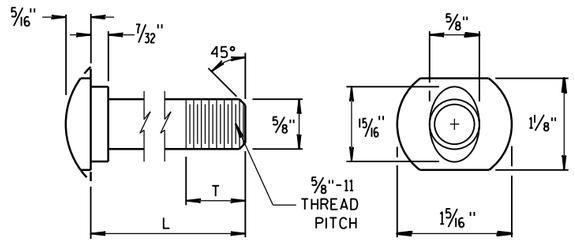


DETAIL FOR 36" BLOCKOUT DEPTH

NOTES: UNDER SPECIAL CIRCUMSTANCES, SUCH AS AVOIDING OBSTACLES THAT ARE NOT RELOCATED, IT IS ACCEPTABLE TO INSTALL ADDITIONAL BLOCKOUTS TO OBTAIN UP TO 36" DEPTH FOR ONE OR TWO POSTS IN A SECTION OF GUARDRAIL.

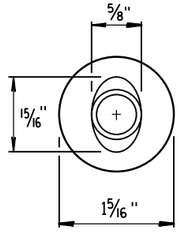
DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

NOTE: 1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF 1/16".
2. IF THE BOLT EXTENDS MORE THAN 1/4" FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.

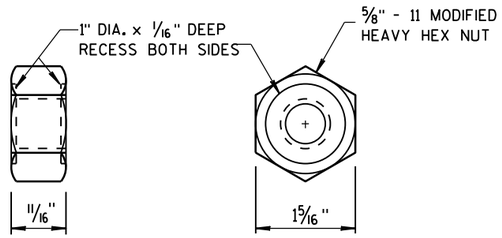


POST BOLT TABLE

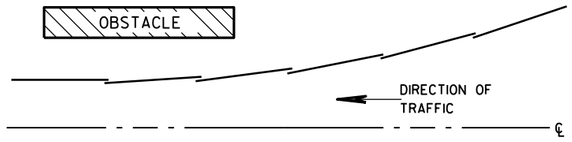
L	T (MIN.)
1 1/4"	1 1/8"
2"	1 3/4"
10"	4"
14"	4 1/16"
18"	4"
21"	4 1/16"
25"	4"



ALTERNATE BOLT HEAD

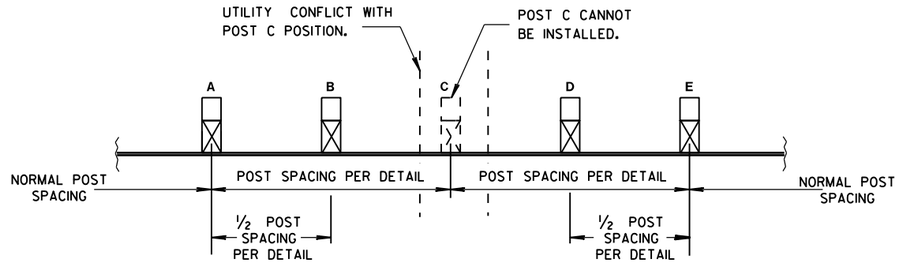


POST BOLT, SPLICE BOLT AND RECESS NUT

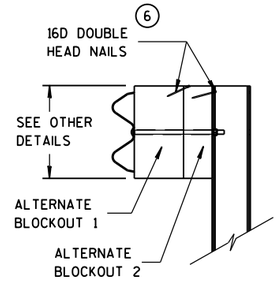


PLAN VIEW

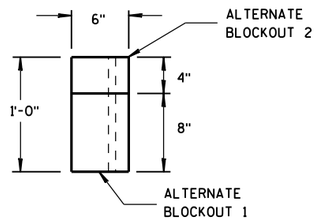
BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION



SIDE VIEW



TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2016 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

6
S.D.D. 14 B 42-4c

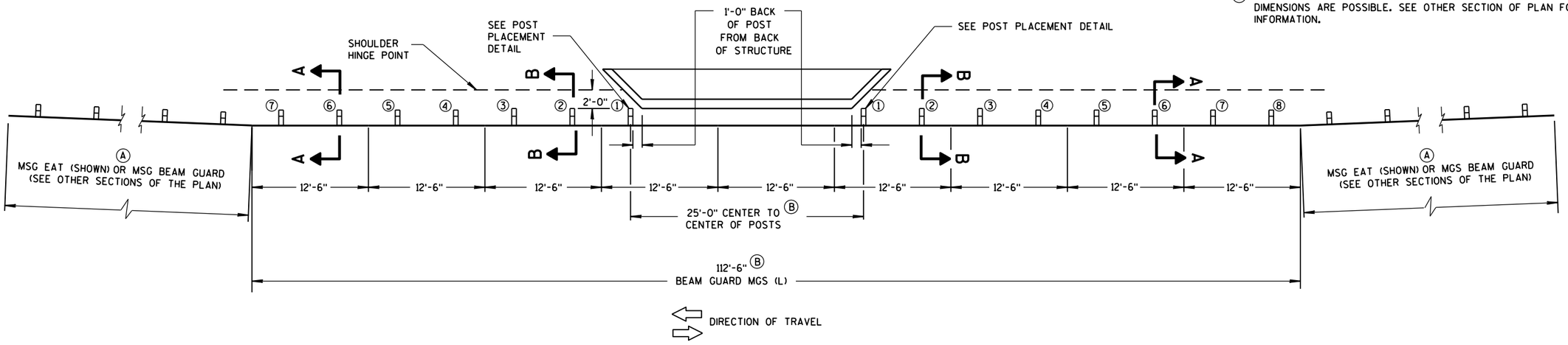
GENERAL NOTES

POSTS 1 THROUGH 3 ARE CRT POSTS.
ALL OTHER POSTS SHALL BE WOOD OR STEEL.

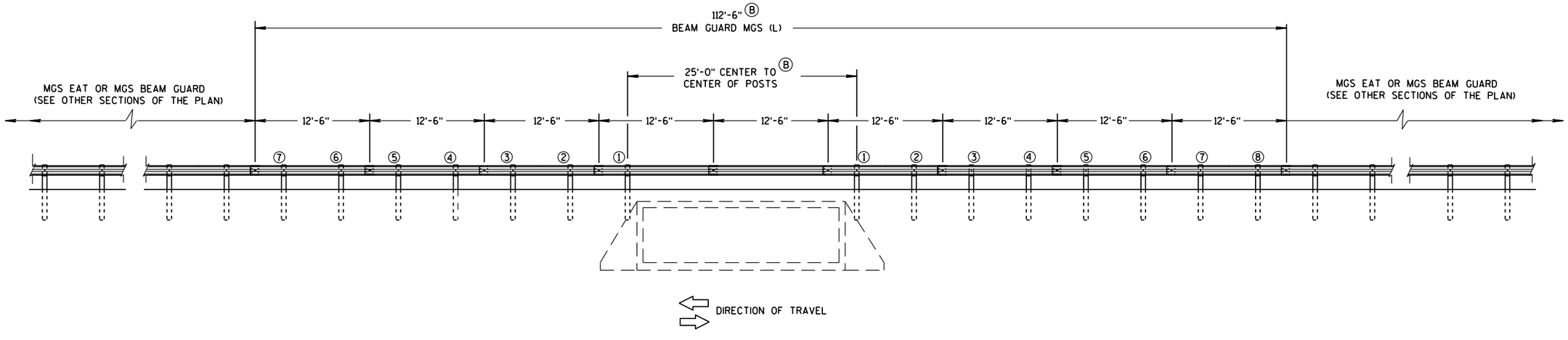
SEE SDD 14 B 42 FOR MORE DETAILS.

(A) FLARE FOR MGS EAT SHOWN. IF INSTALLING MGS NO FLARE NEEDED.

(B) VALUES SHOWN ON DRAWING REPRESENT THE MAXIMUM LENGTH. SHORTER DIMENSIONS ARE POSSIBLE. SEE OTHER SECTION OF PLAN FOR MORE INFORMATION.



PLAN VIEW



ELEVATION VIEW

MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L) TWO-WAY TRAFFIC

MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L)
STATE OF WISCONSIN DEPARTMENT OF TRANSPOI

6
S.D.D. 14 B 43-3a

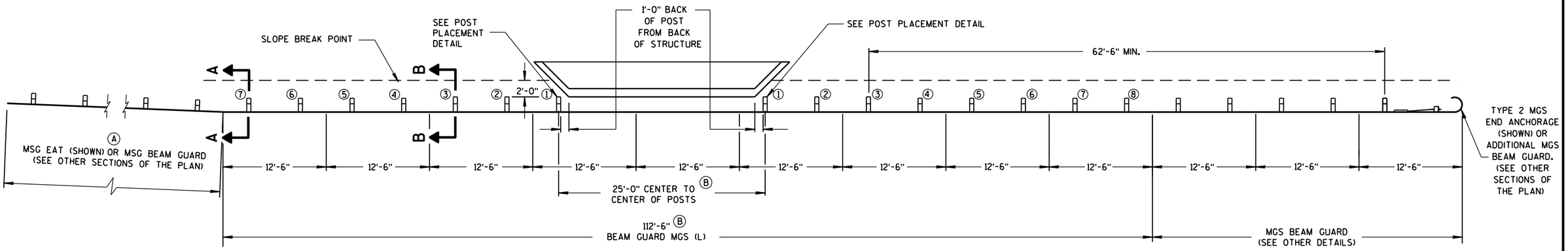
GENERAL NOTES

POSTS 1 THROUGH 3 ARE CRT POSTS.
ALL OTHER POSTS SHALL BE WOOD OR STEEL.

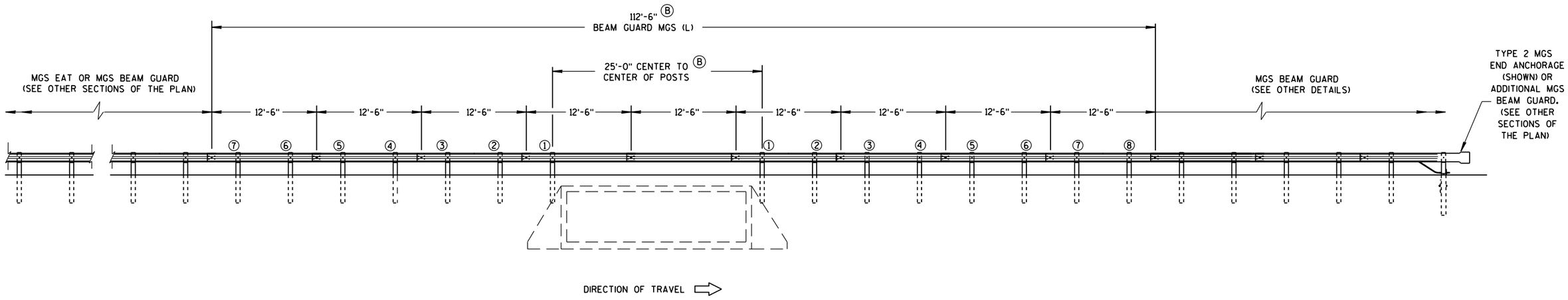
SEE SDD 14 B 42 FOR MORE DETAILS.

(A) FLARE FOR MGS EAT SHOWN. IF INSTALLING MGS NO FLARE NEEDED.

(B) VALUES SHOWN ON DRAWING REPRESENT THE MAXIMUM LENGTH. SHORTER DIMENSIONS ARE POSSIBLE. SEE OTHER SECTION OF PLAN FOR MORE INFORMATION.



PLAN VIEW



ELEVATION VIEW

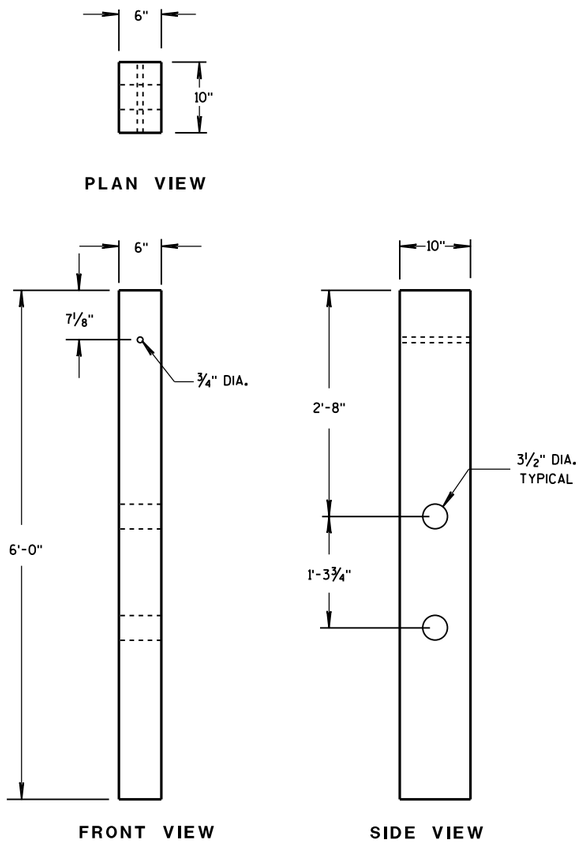
MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L) ONE-WAY TRAFFIC

MIDWEST GUARDRAIL SYSTEM
LONG SPAN MGS (L)

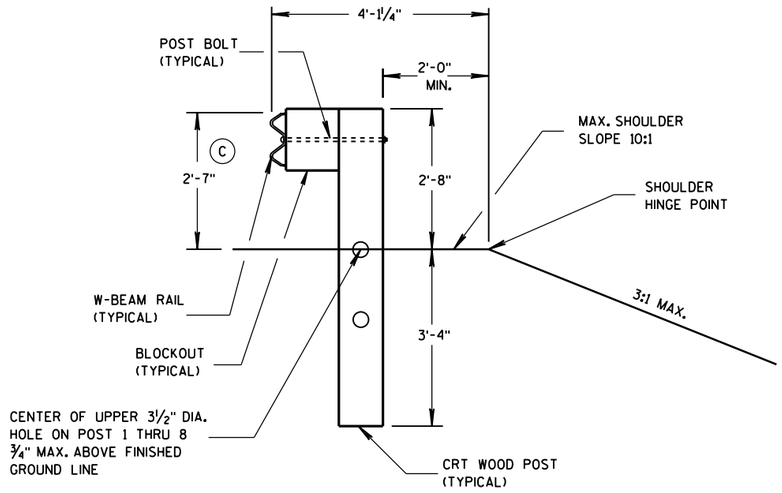
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 14 B 43-3b



CRT WOOD POST



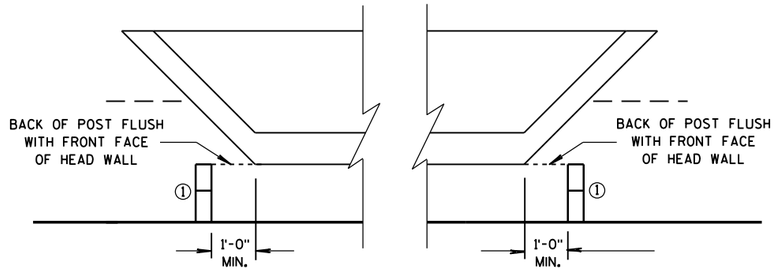
SECTION B-B

POSTS NO. 1-3

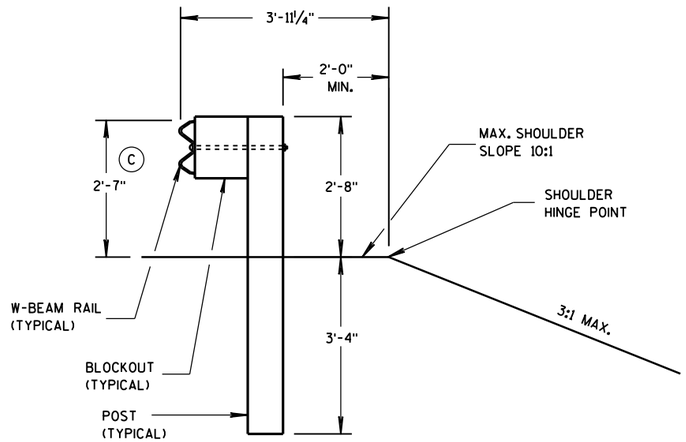
SEE OTHER DETAILS

GENERAL NOTES

(C) TOLERANCE FOR TOP OF W-BEAM RAIL IS ± 1".



POST PLACEMENT DETAIL



SECTION A-A

POSTS NO. 4-8

SEE OTHER DETAILS

MIDWEST GUARDRAIL SYSTEM
LONG SPAN MGS (L)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

5/10/2013
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

FHWA

6

S.D.D. 14 B 43-3c

6

S.D.D. 14 B 43-3c

GENERAL NOTES

(A) THE SLOPE IN THE AREA BOUNDED BY THE GRADELINE, THE HINGE POINT LINE (HPL), AND THE CLEAR ZONE LIMITS (CZL) SHALL BE 4:1 OR FLATTER.

(B) AFTER FINAL ASSEMBLY, RECHECK CABLE TO BE SURE IT IS TAUT AND HAS NOT RELAXED.

(C) DIFFERENT MANUFACTURES REQUIRE DIFFERENT PERFORATED W-BEAM RAIL END PANELS. SEE MANUFACTURES INFORMATION.

(D) THE TOP OF THE STEEL TUBE ON POST 1 AND POST 2 SHALL NOT BE MORE THAN 3" ABOVE THE FINISH GROUND ELEVATION.

(F) ATTACH ALUMINUM SHEET TO E.A.T. HEAD USING 4 STAINLESS STEEL SELF-TAPPING SCREWS. ONE SCREW PER CORNER.

(G) ½" DIAMETER X 3" LONG LAG BOLT AND WASHER.

(H) HARDWARE VARIES BETWEEN DIFFERENT MANUFACTURES. SEE MANUFACTURE'S DRAWING FOR INFORMATION.

(I) DIMENSIONS MAY VARY. SEE MANUFACTURE'S INFORMATION.

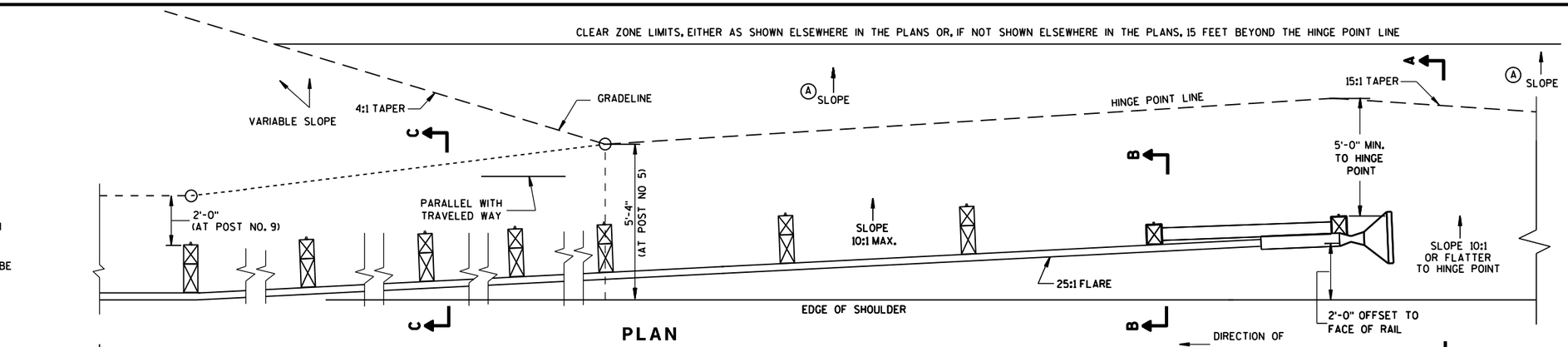
SEE SDD 14B42 FOR MORE INFORMATION.

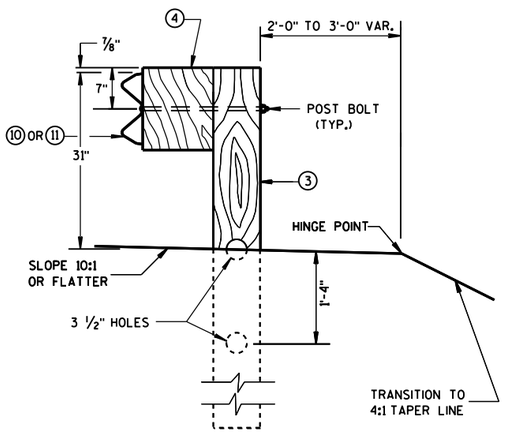
* DO NOT ATTACH BLOCKOUTS TO POSTS 1 AND 2.

DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

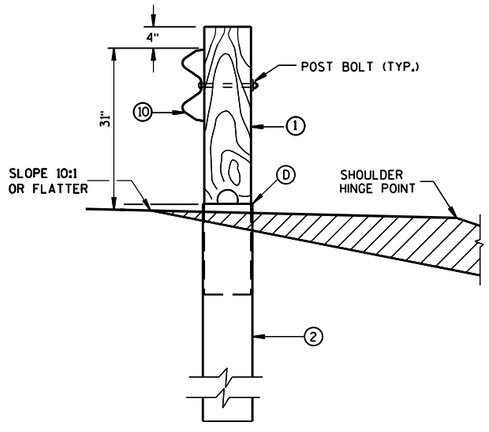
W-BEAM RAIL SPLICES ARE LOCATED AT POST NUMBER 3, AND BETWEEN POST 5 AND 6, BETWEEN POSTS 7 AND 8, AND MIDDLE OF THE SPAN AFTER POST 9.

THE CENTER OF THE UPPER 3½" DIAMETER HOLE ON POST NUMBER 3 THROUGH POST 9 IS TO BE FLUSH WITH THE GROUND LINE UP TO A MAXIMUM OF 2" ABOVE GROUND LINE.

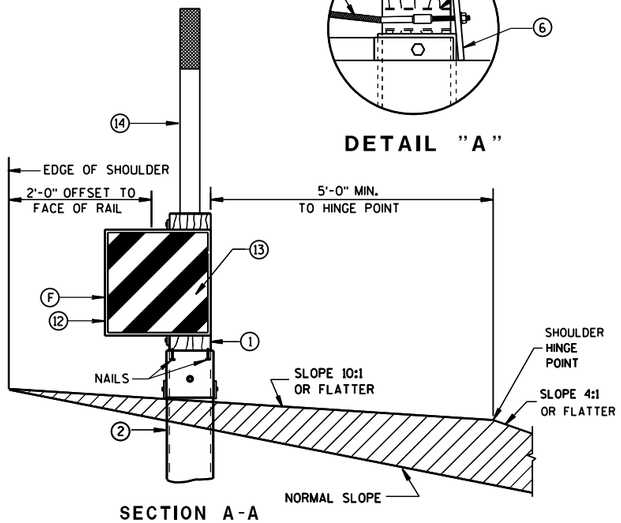




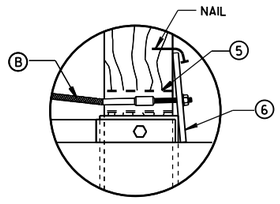
SECTION C-C
TYPICAL AT POST NOS. 3-9



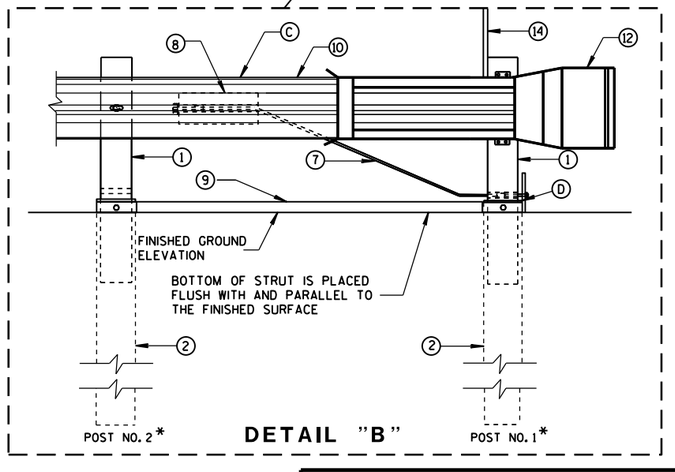
SECTION B-B
TYPICAL AT POST NO. 2*



SECTION A-A
TYPICAL AT POST NO. 1*



DETAIL "A"



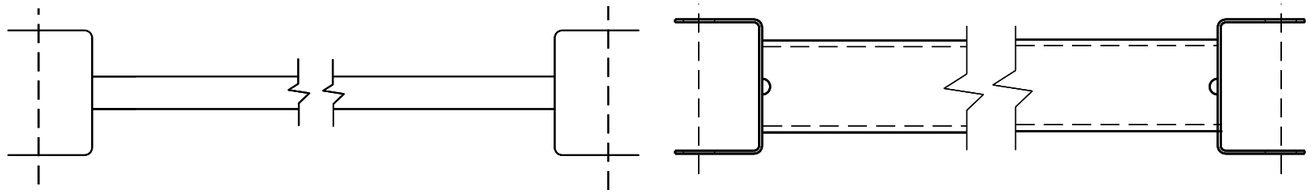
DETAIL "B"

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

S.D.D. 14 B 44-2a

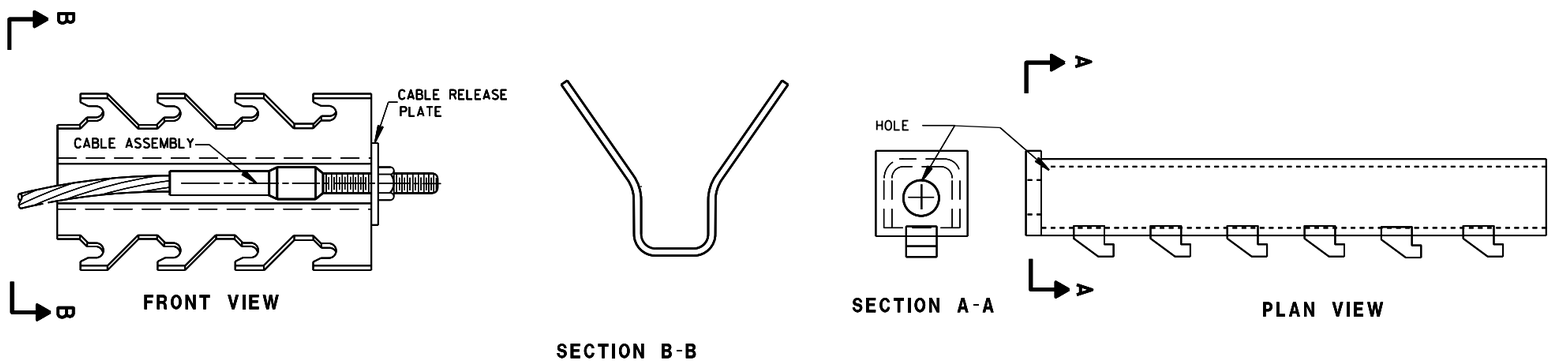
6



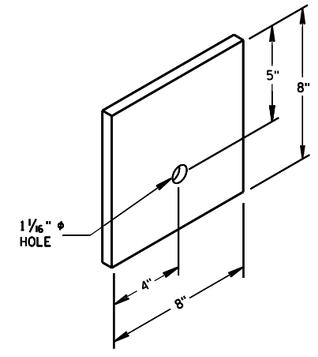
GENERIC GROUND STRUT (9) (H)

BILL OF MATERIALS

PART NO.	DESCRIPTION MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUFACTURER'S DETAILS FOR MORE INFORMATION.
(1)	WOOD BREAKAWAY POST
(2)	6" X 8" X 0.188", 6'-0" LONG FOUNDATION TUBE AT POSTS 1 AND 2
(3)	WOOD CRT
(4)	WOOD BLOCKOUT
(5)	PIPE SLEEVE
(6)	BEARING PLATE
(7)	BCT CABLE ASSEMBLY
(8)	ANCHOR CABLE BOX
(9)	GROUND STRUT
(10)	PERFORATED W-BEAM RAIL END PANEL, 12'-6" LONG.
(11)	STANDARD W-BEAM RAIL. MULTIPLE SECTIONS REQUIRED. SECTIONS VARY IN LENGTH.
(12)	END SECTION EAT
(13)	0.040" ALUMINUM SHEET WITH REFLECTIVE SHEETING TYPE F PER SECTION 637 OF THE STANDARD SPECIFICATIONS
(14)	EAT MARKER POST - YELLOW (SEE APPROVED PRODUCTS LIST)



GENERIC ANCHOR CABLE BOX (8) (H)



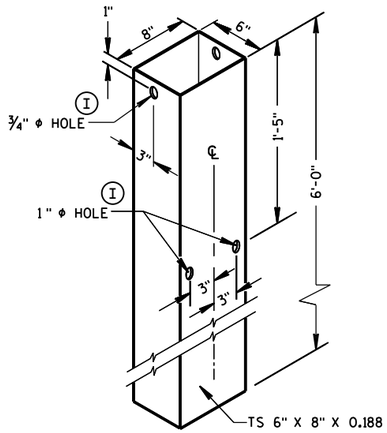
BEARING PLATE (6)

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

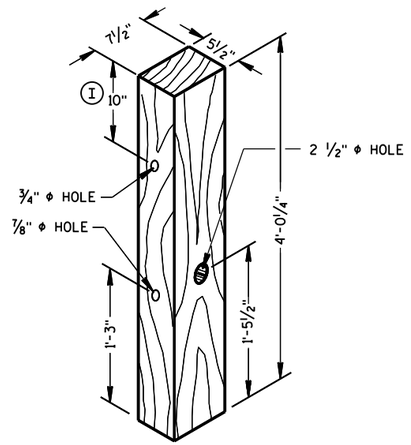
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 14 B 44-2b

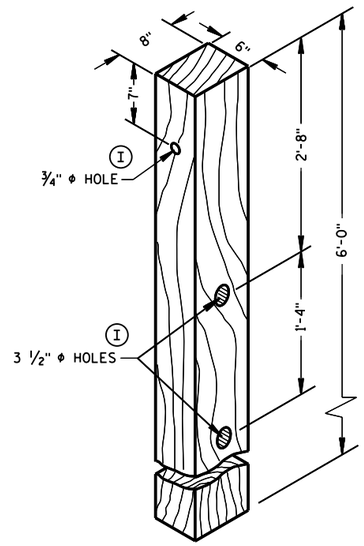


FOUNDATION TUBE (2)



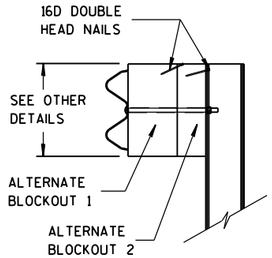
POSTS NUMBER 1 AND 2

WOOD BREAKAWAY POST (1)

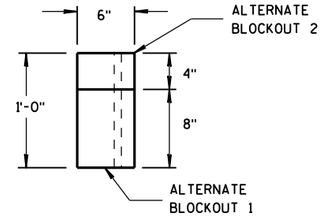


POSTS NUMBER 3-9

WOOD CRT POST (3)

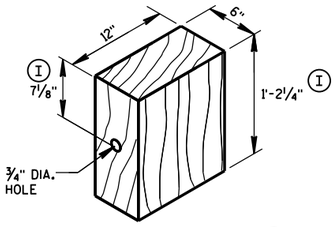


SIDE VIEW



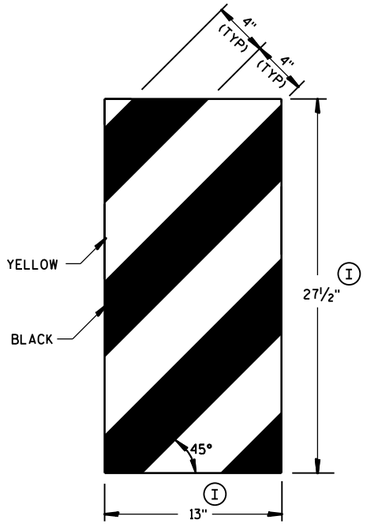
TOP VIEW

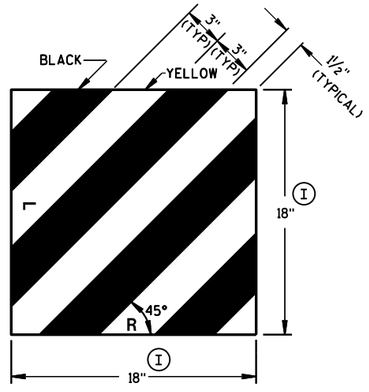
ALTERNATE WOOD BLOCKOUT DETAIL



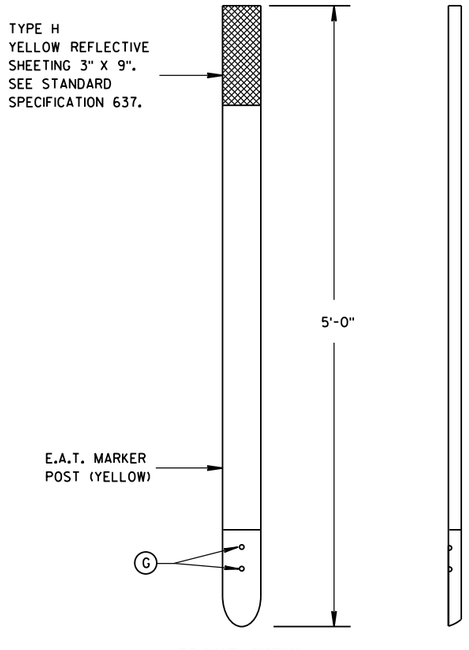
WOOD BLOCKOUT (4)

REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2





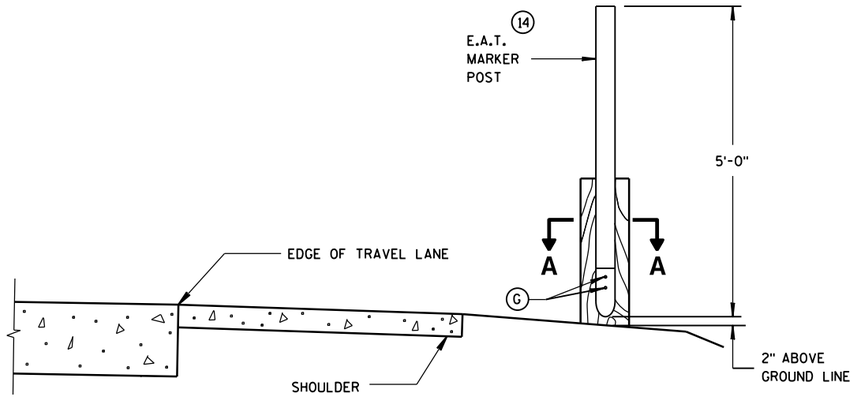
GENERIC REFLECTIVE SHEETING (13) (H)



FRONT VIEW

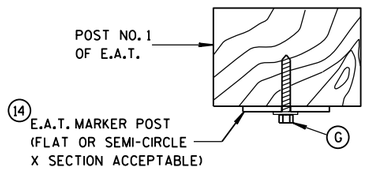
SIDE VIEW

E.A.T. MARKER POST (14)



TYPICAL INSTALLATION OF E.A.T. MARKER POST BACKSIDE OF POST NO. 1

(E.A.T. AND RAIL REMOVED FOR CLARITY)



SECTION A-A

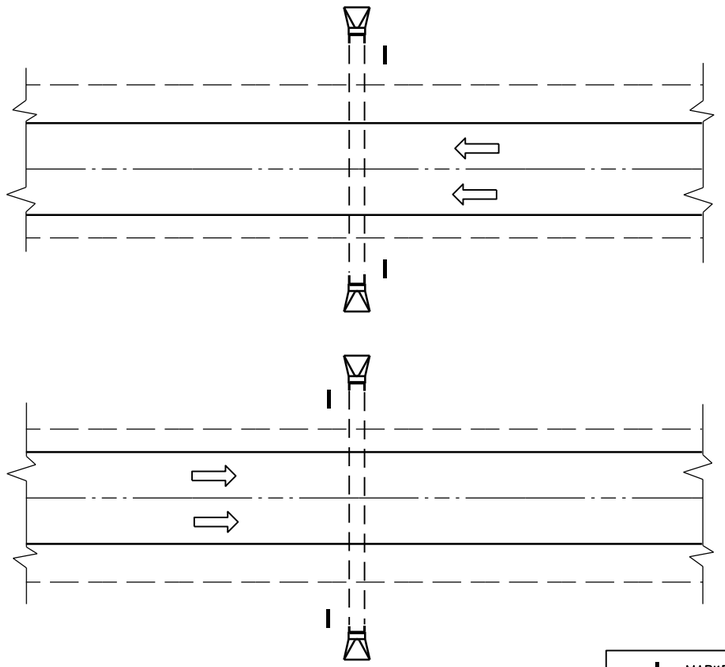
MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2014 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

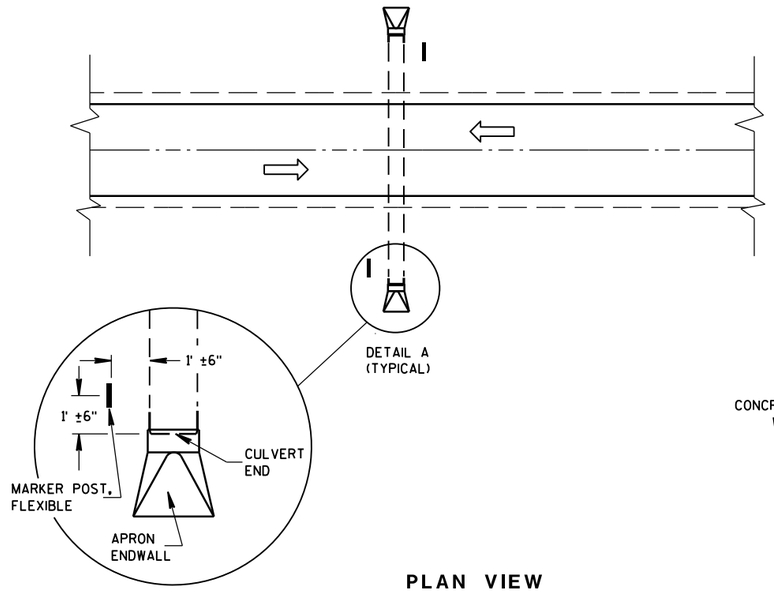
6

S.D.D. 14 B 44-2c



PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

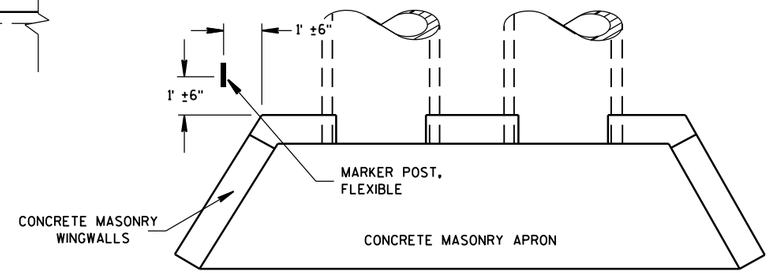
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

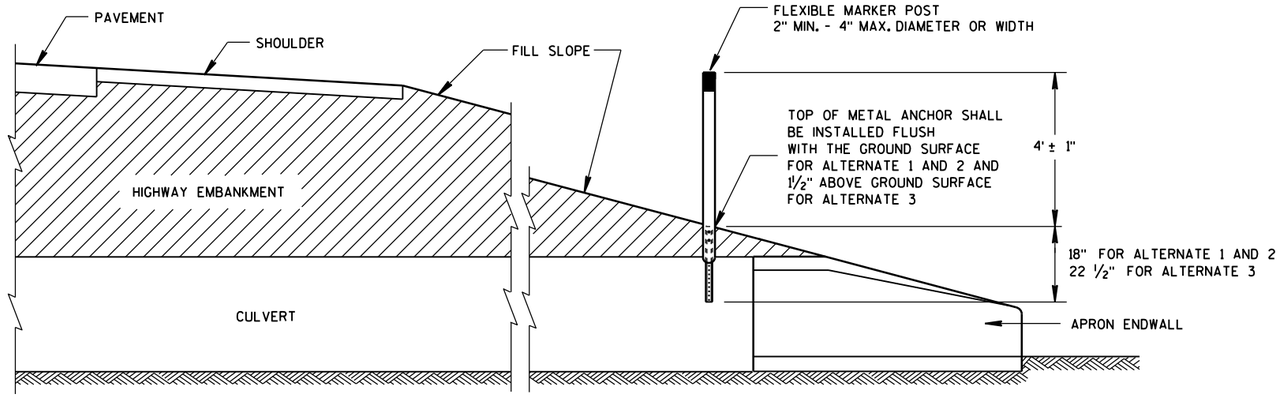
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



PLAN VIEW

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

FLEXIBLE MARKER POST LOCATION



CROSS SECTION

FLEXIBLE MARKER POST

FLEXIBLE MARKER POST FOR CULVERT END

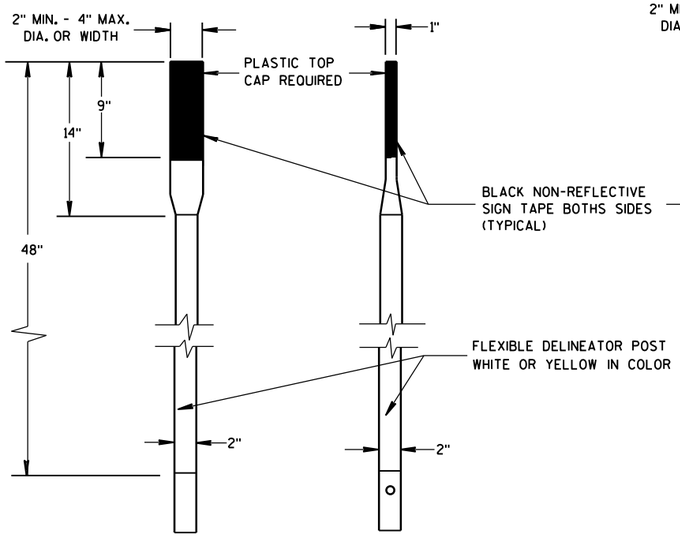
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

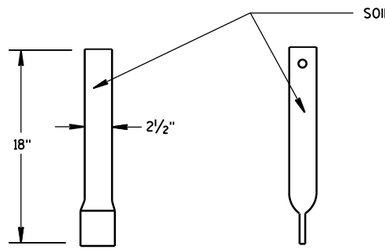
6

S.D.D. 15 A 3-2a

6

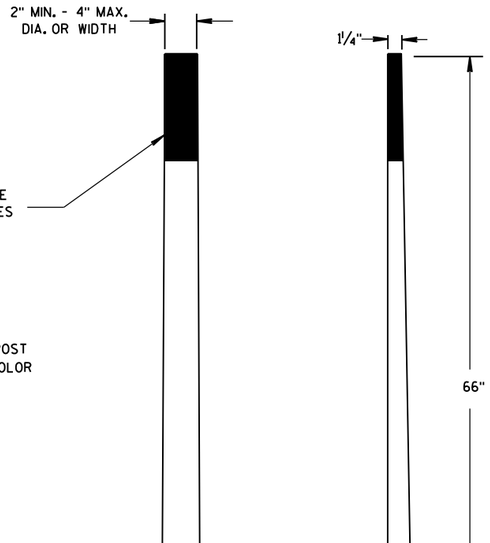
S.D.D. 15 A 3-2a





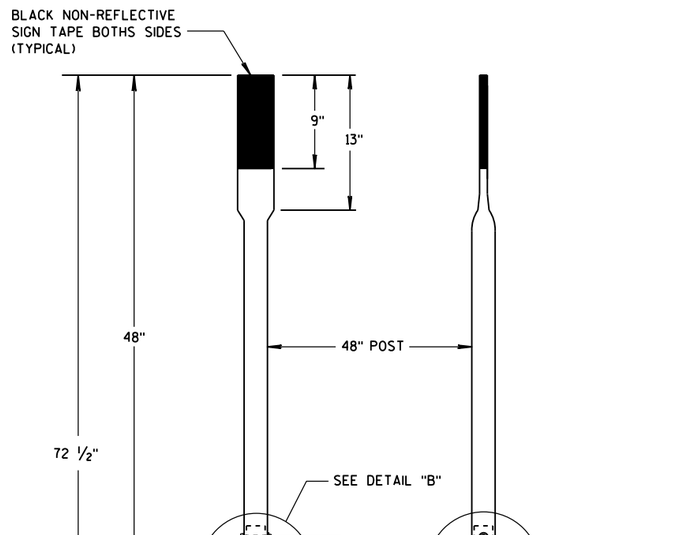
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

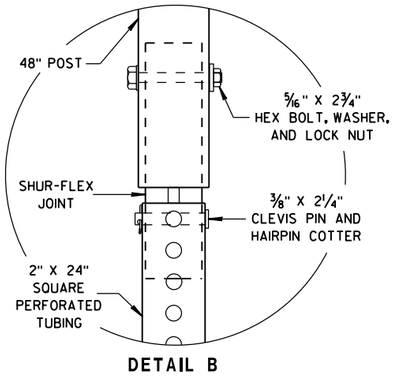
ALTERNATE 2



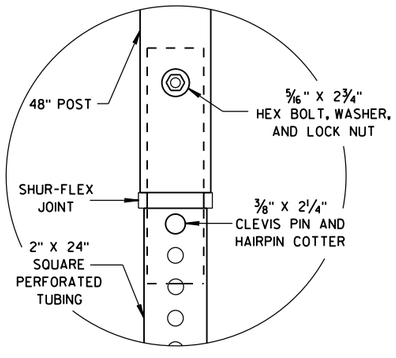
FRONT VIEW SIDE VIEW

ALTERNATE 3

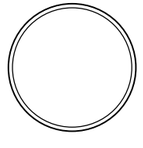
FLEXIBLE MARKER POSTS



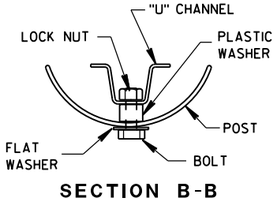
DETAIL B



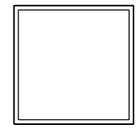
DETAIL C



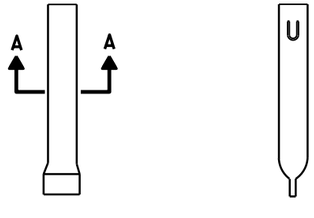
SECTION A-A



SECTION B-B

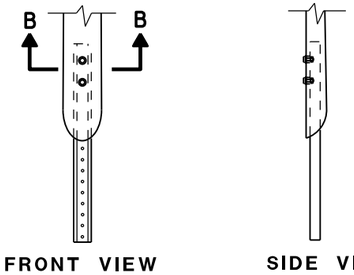


SECTION C-C



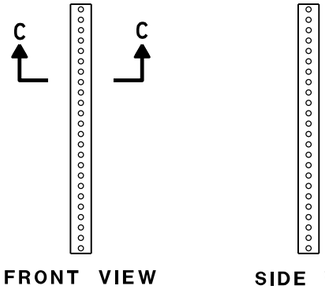
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

ALTERNATE 2



FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POST ANCHORS

FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/1/2012 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

6

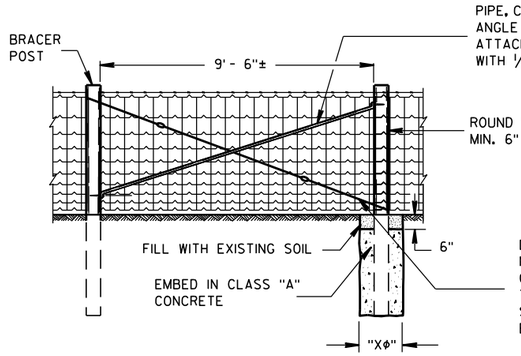
S.D.D. 15 A 3-2b

6

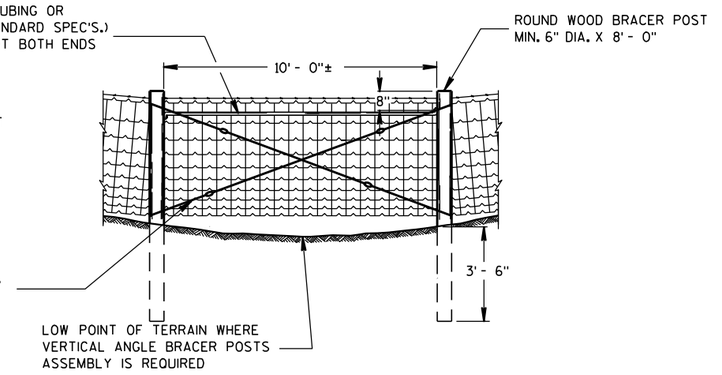
S.D.D. 15 A 3-2b

NOTE: PULL OR STRETCHER POST ASSEMBLIES SHALL BE PLACED MIDWAY BETWEEN END POSTS AND CORNER POSTS WHERE A RUN OF FENCE EXCEEDS 660' BUT IS LESS THAN 1,320'. FOR RUNS OF FENCE IN EXCESS OF 1,320' MAXIMUM SPACING OF PULL OR STRETCHER POST ASSEMBLIES SHALL BE 660'± C-C.

ILLUSTRATION SHOWS POSITION OF STANDARD STEEL BRACE, DOUBLE STRAND GALVANIZED WIRE, AND THE POST TO BE EMBEDDED IN CONCRETE WHEN WIRE FENCE IS INSTALLED FROM LEFT TO RIGHT. THE BRACES SHALL BE POSITIONED ON THE OPPOSITE DIAGONALS AND THE OPPOSITE POST SHALL BE EMBEDDED IN CONCRETE WHEN WIRE FENCE IS INSTALLED FROM RIGHT TO LEFT.



PULL OR STRETCHER POSTS ASSEMBLY



VERTICAL ANGLE BRACER POSTS ASSEMBLY

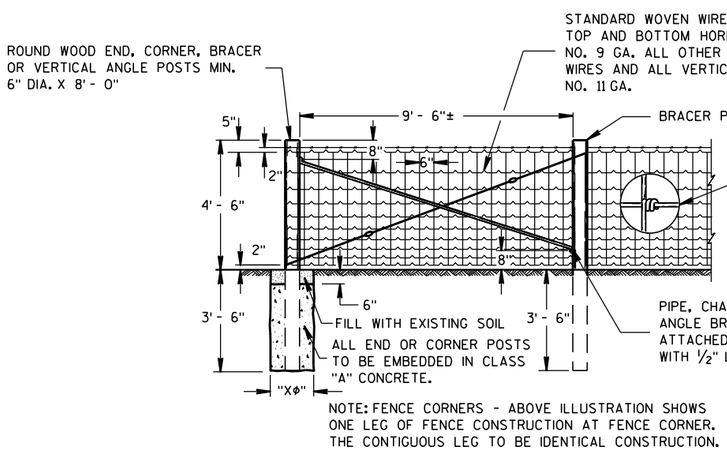
GENERAL NOTES

"XΦ" = DIAMETER OF THE POST PLUS 12".

FENCE STAPLES SHOULD NEVER BE DRIVEN VERTICALLY INTO WOOD POSTS (WITH BOTH LEGS PARALLEL WITH THE WOOD GRAIN). DOING SO CAN SEPARATE THE GRAIN AND SIGNIFICANTLY REDUCE THE HOLDING POWER. ROTATING THE STAPLES SLIGHTLY OFF VERTICAL STRADDLES THE GRAIN AND PROVIDES MORE RESISTANCE TO PULL-OUT.

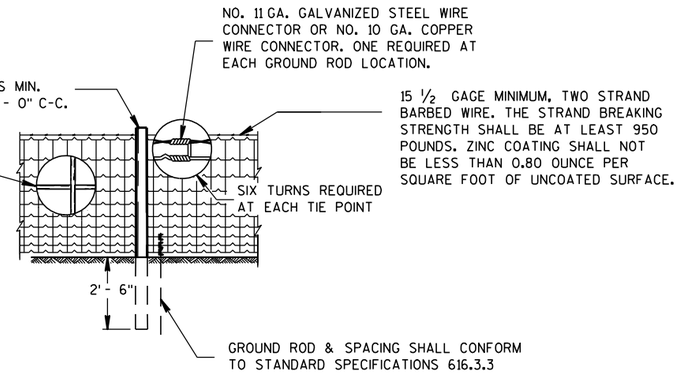
DO NOT STAPLE WIRE TIGHT TO THE LINE POSTS. ALLOW MOVEMENT OF WIRE FOR EXPANSION AND CONTRACTION. STAPLE ARRANGEMENT SHALL BE THE SAME FOR ALL OTHER POSTS EXCEPT THAT THEY SHALL BE DRIVEN TIGHT TO POSTS. ALL STAPLES SHALL BE 2" X 9 GAGE AND SHALL BE MANUFACTURED FROM GALVANIZED WIRE OR HOT DIP GALVANIZED AFTER FORMING. STAPLES SHALL HAVE SLASH-CUT POINTS.

FENCE SHALL BE LOCATED 3'-0" INSIDE THE RIGHT OF WAY LINE UNLESS OTHERWISE INDICATED ON THE PLANS.



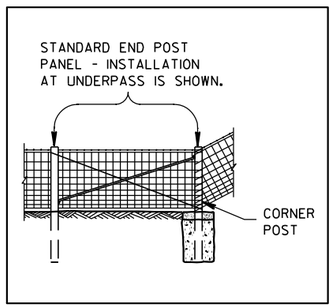
NOTE: FENCE CORNERS - ABOVE ILLUSTRATION SHOWS ONE LEG OF FENCE CONSTRUCTION AT FENCE CORNER. THE CONTIGUOUS LEG TO BE IDENTICAL CONSTRUCTION.

END OR CORNER POSTS ASSEMBLY

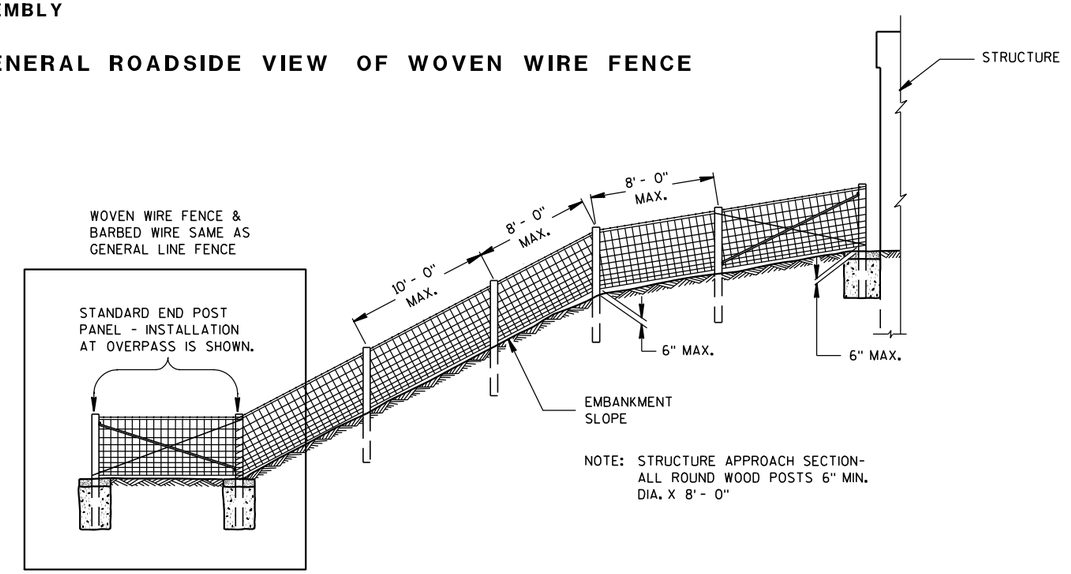


LINE FENCE CONSTRUCTION

GENERAL ROADSIDE VIEW OF WOVEN WIRE FENCE



ALTERNATE FENCE DESIGN AT STRUCTURE



NOTE: STRUCTURE APPROACH SECTION- ALL ROUND WOOD POSTS 6" MIN. DIA. X 8' - 0"

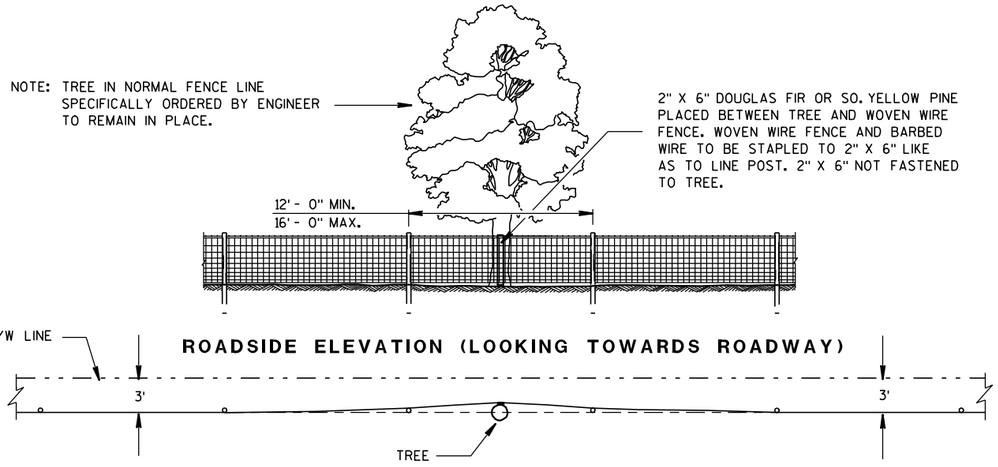
FENCE DESIGN AT STRUCTURE APPROACH

FENCE WOVEN WIRE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

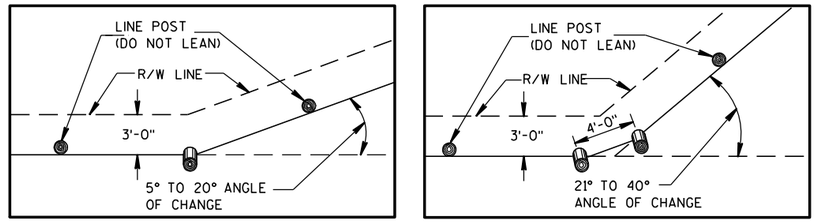
6

S.D.D. 15 B 1-8a



PLAN VIEW

FENCE DESIGN AT TREES REMAINING IN NORMAL FENCE LINE



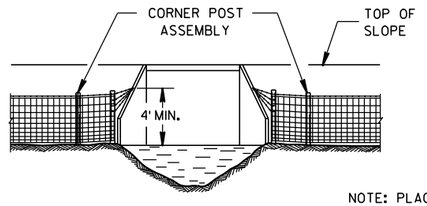
PLAN VIEW
SINGLE POST CORNER

PLAN VIEW
DOUBLE POST CORNER

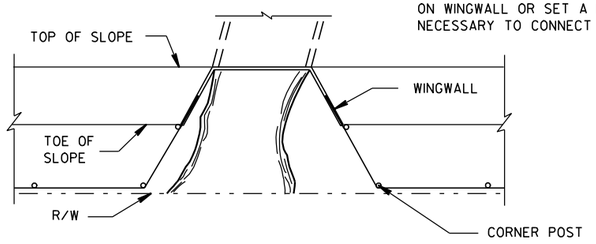
RIGHT OF WAY LINE CHANGE 40° AND LESS

NOTE: SINGLE AND DOUBLE POSTS SHALL BE A MIN. 6" DIA. X 8'-0" WITH A LEAN OF 4" TOWARD THE OUTSIDE OF THE CURVE.

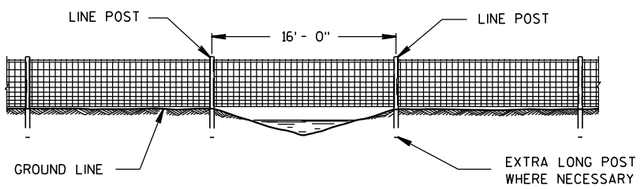
WHEN THE RIGHT OF WAY LINE CHANGE IS MORE THAN 40° USE THE CORNER OR STRETCHER POSTS ASSEMBLY.



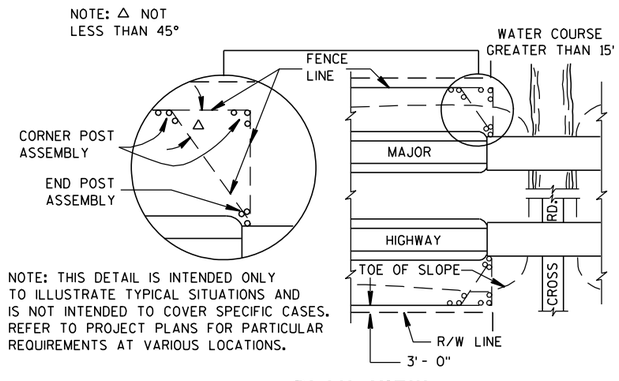
NOTE: PLACE A MINIMUM OF 4 STRANDS OF BARBED WIRE, 6" MAXIMUM CENTERS IN FAN SHAPE CONNECTED TO AN EYE BOLT ON WINGWALL OR SET A LONE POST WHEN NECESSARY TO CONNECT BARBED WIRE.



FENCE INSTALLATION TO WINGWALLS

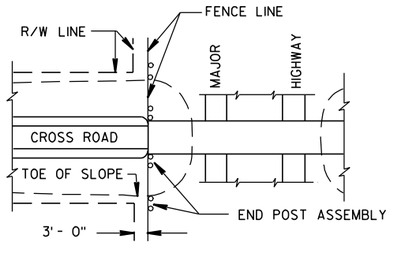


FENCE CONSTRUCTION OVER STREAM COURSES OF 15 FT. OR LESS IN WIDTH



PLAN VIEW

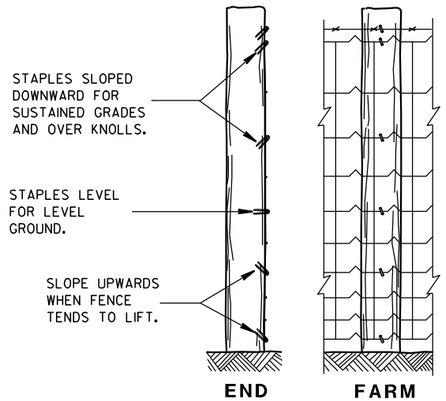
MAJOR HIGHWAY OVERPASS OR STREAM COURSE CROSSING OF GREATER THAN 15 FT. IN WIDTH



PLAN VIEW

MAJOR HIGHWAY UNDERPASS

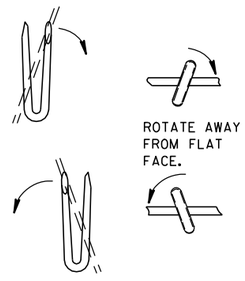
NOTE: WHEN POSTS ARE DRIVEN THE SMALL END SHALL BE DOWN.



END ELEVATION

FARM SIDE ELEVATION

FENCE MOUNTING DETAIL



LINE POST

FENCE LOCATION AT STRUCTURES

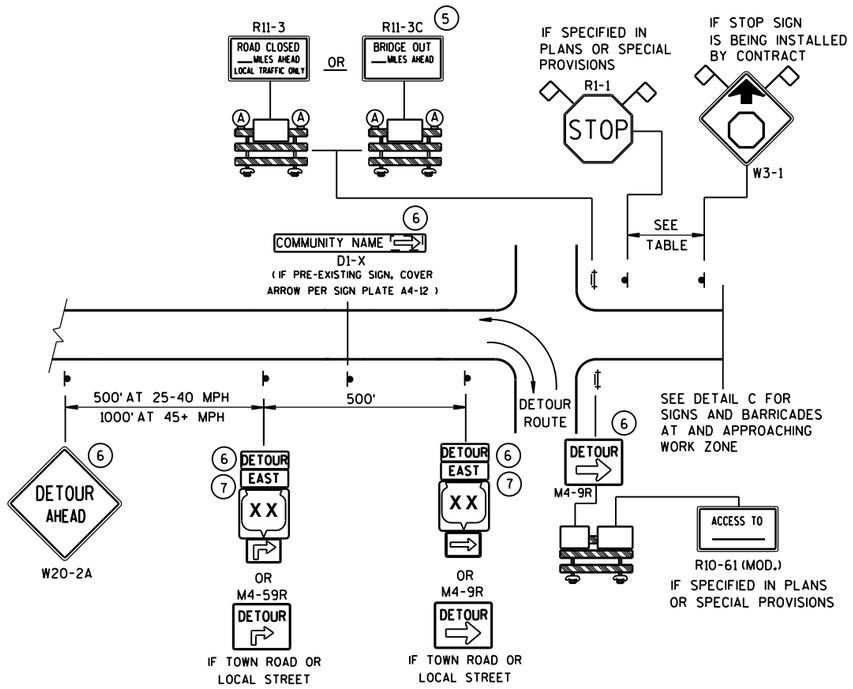
FENCE WOVEN WIRE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4/4/2008
DATE
/S/ Jerry H. [illegible]
ROADWAY STANDARDS [illegible]
ENGINEER
FHWA

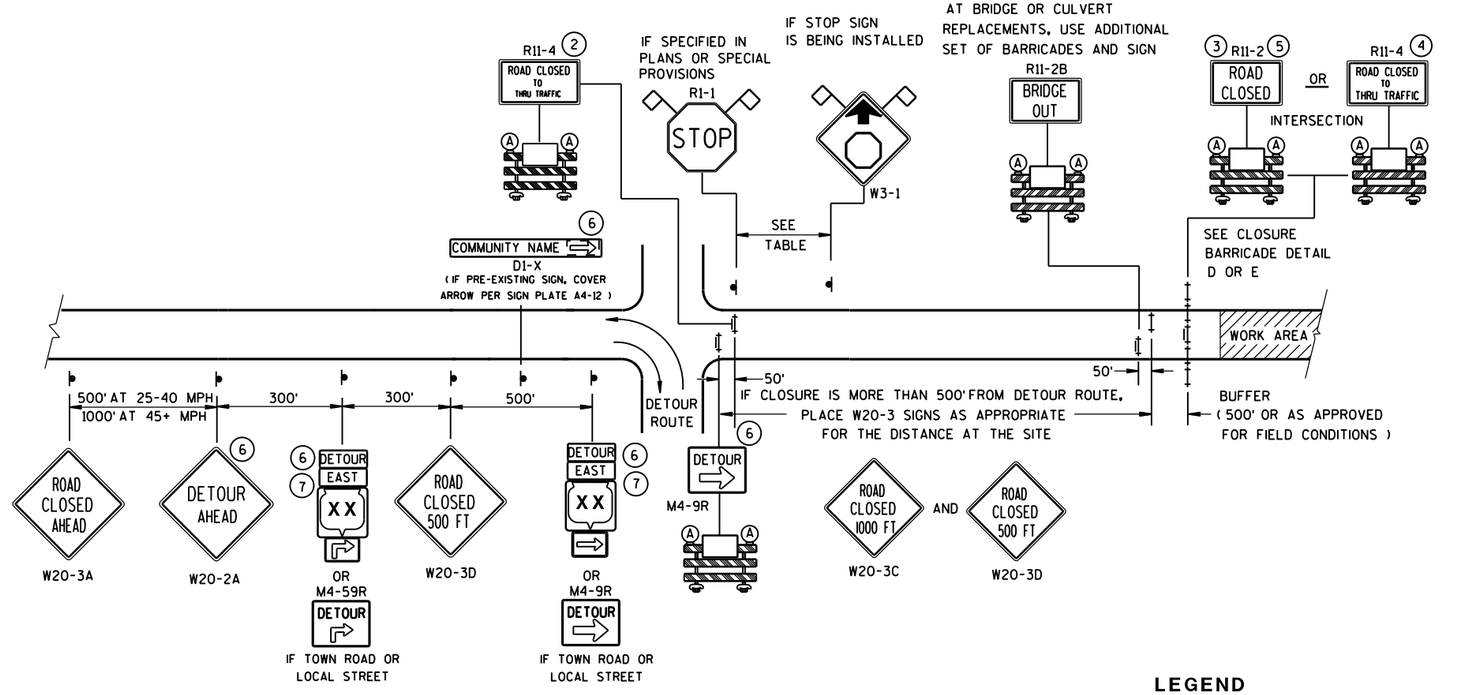
6

S.D.D. 15 B 1-8b



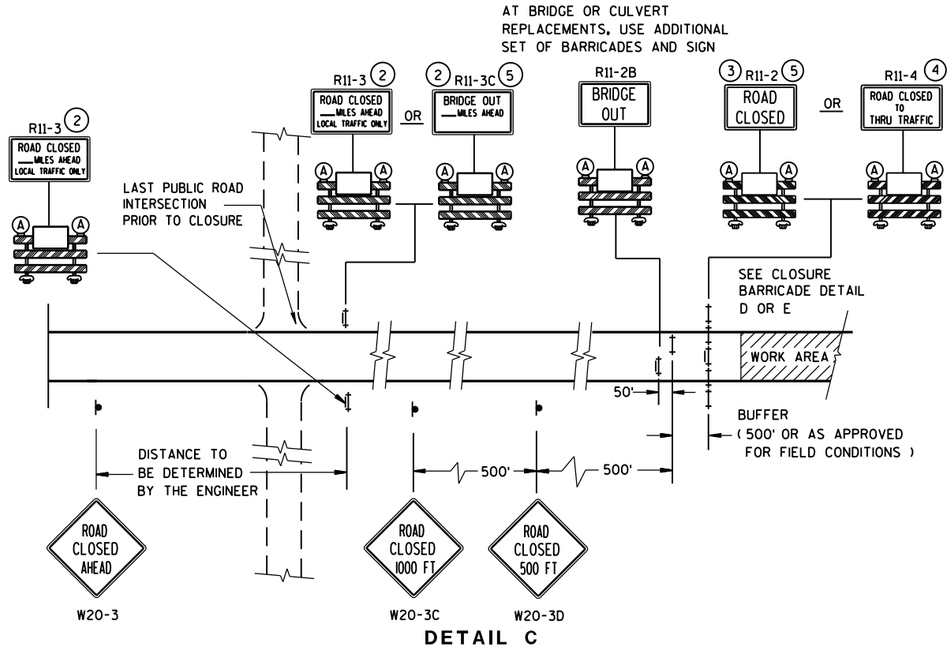
DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE GREATER THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE LESS THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR

SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (FT)
25	200
30	200
35	350
40	350
45	500
50	550
55	750

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA
- DETOUR / EAST — M4-8 / M3-X
- XX — M1-4; COUNTY XX — M1-5A; XX — M1-6
- M05-1 OR M06-1
- FLAGS, 16" X 16" MIN., (ORANGE)

SEE SDD 15C2-SHEET "**b**" FOR GENERAL NOTES AND FOOTNOTES (1) THROUGH (7)

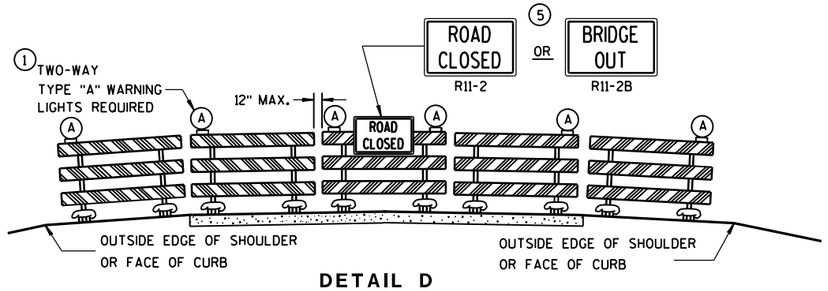
BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

Sept. 2015 — DATE
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER
FHWA

S.D.D. 15 C 2-6a

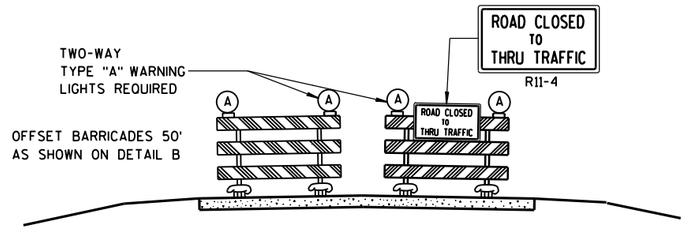
6



DETAIL D

ROAD CLOSURE BARRICADE DETAIL

APPROACH VIEW



DETAIL E

LANE CLOSURE BARRICADE DETAIL

APPROACH VIEW

SEE SDD 15C2-SHEET "**a**" FOR LEGEND

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL D FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3, M4-9, R11-4 AND R10-61 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

"WO AND "MO" SIGNS ARE THE SAME AS "W" AND "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
- R11-2 SHALL BE 48" X 30".
- R11-3, R11-4 AND R10-61 SHALL BE 60" X 30".
- M4-9 SHALL BE 30" X 24".
- M3-X SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS.)
- M4-8 SHALL BE 24" X 12". (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS.)
- M1-4, M1-5A, AND M1-6 SHALL BE 24" X 24". (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS.)
- M05-1 AND M06-1 SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS.)
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1-1 SHALL BE 36" X 36".

(1) TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8-FOOT LIGHT SPACING).

(2) THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT INTERSECTION.

(3) FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL D.

(4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE LANE CLOSURE BARRICADE DETAIL E.

(5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11-2 AND R11-3 SIGNS.

(6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.

(7) "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

Sept. 2015 — DATE

/S/ Peter Amakobe Atepe
STATEWIDE WORK ZO SAFETY ENGI — FIC

FHWA

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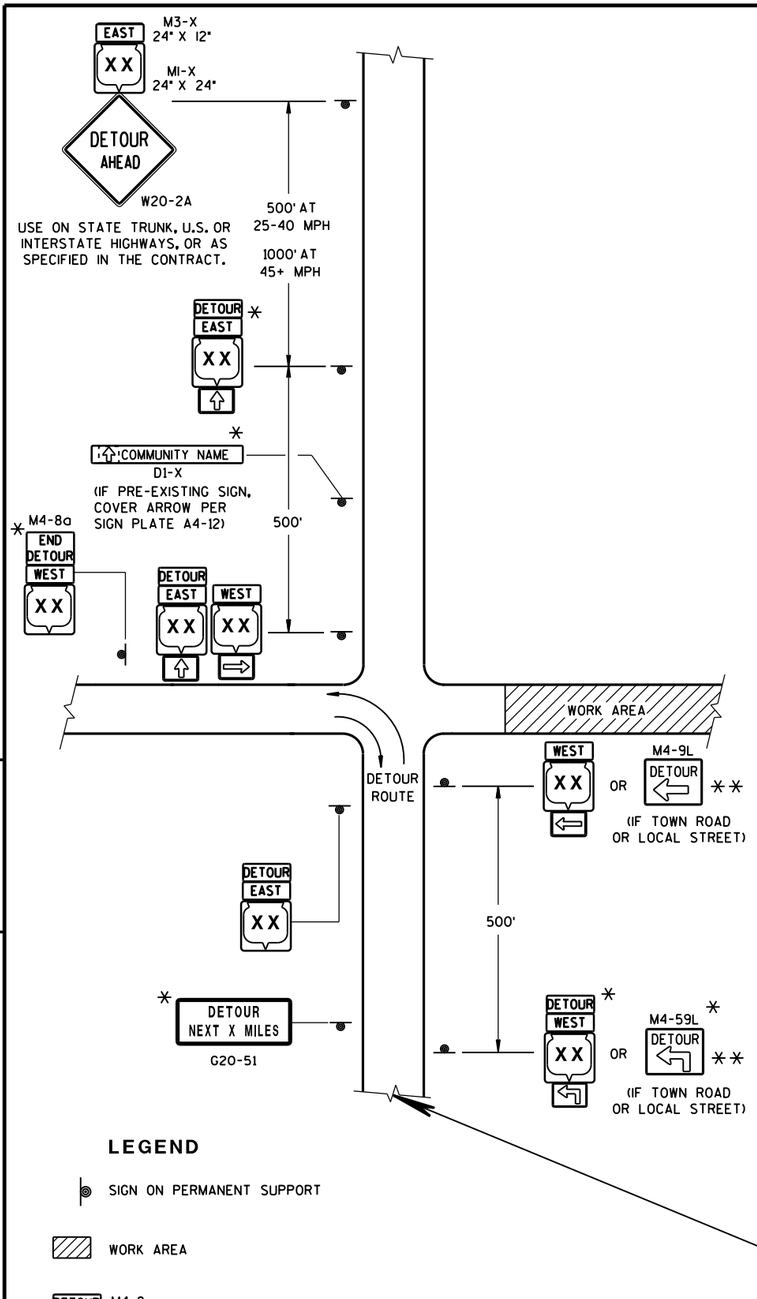
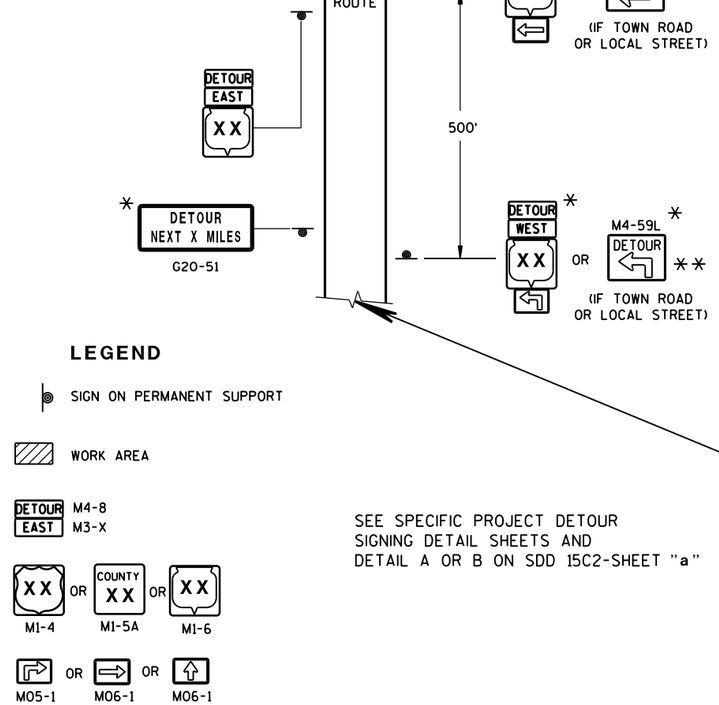
S.D.D. 15 C 2-6b

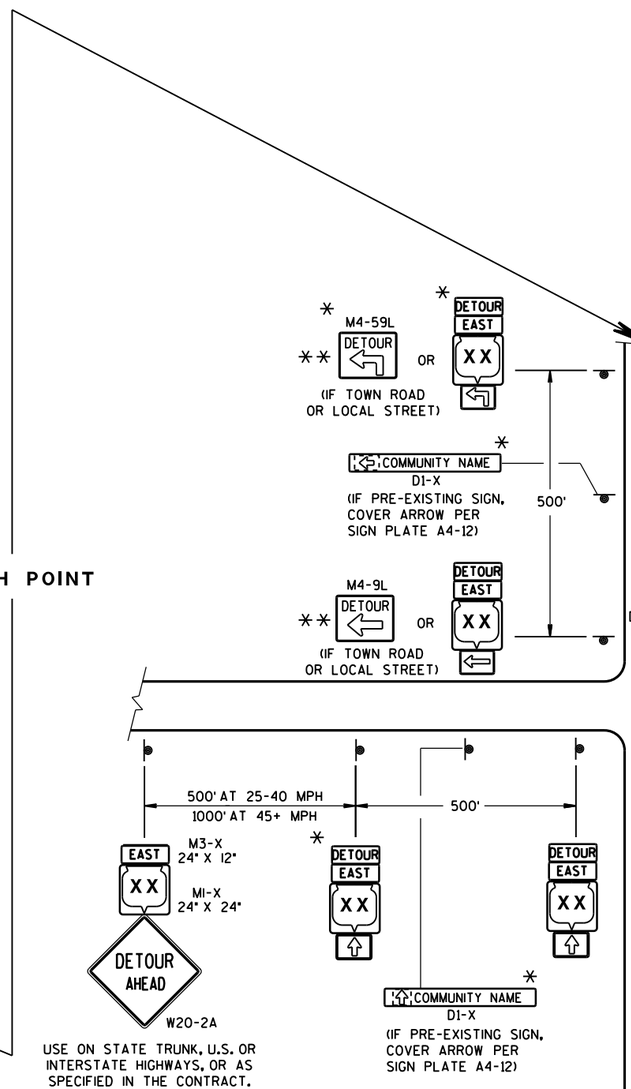


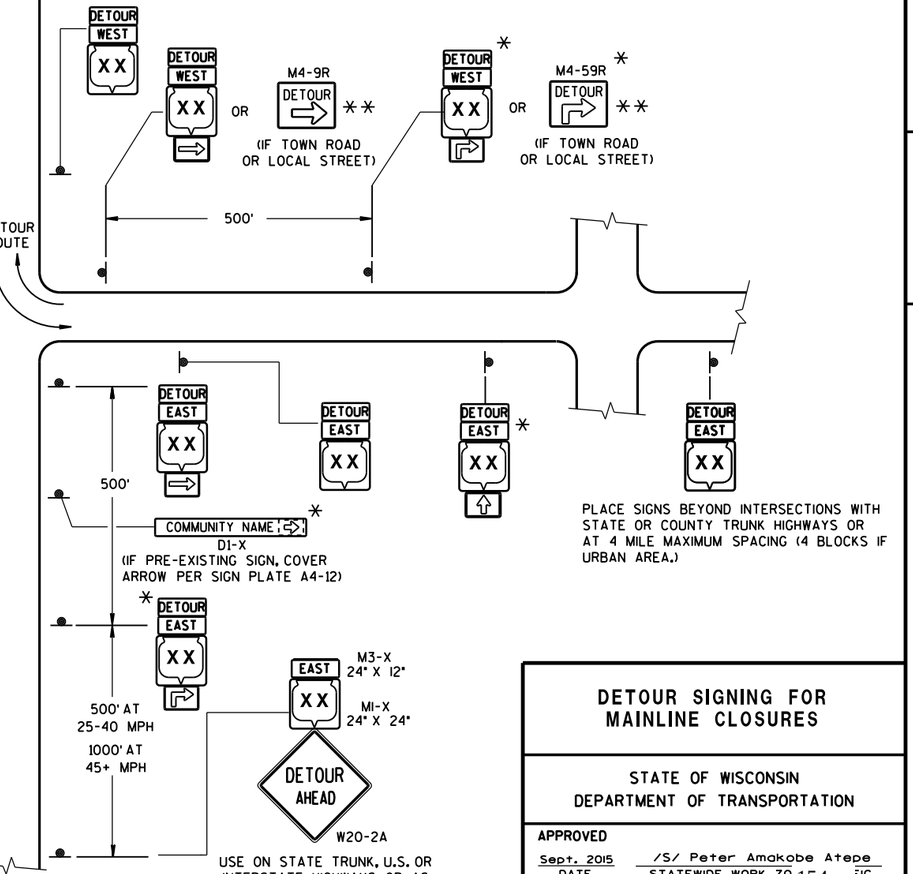


SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS AND DETAIL A OR B ON SDD 15C2-SHEET "a"

THIS DRAWING PROVIDES GENERAL GUIDANCE ON TYPICAL DETOUR SIGN LAYOUT AND SPACING. SEE PROJECT DETOUR SIGNING SHEETS FOR SPECIFIC DETAILS FOR EACH PROJECT.

MATCH POINT





GENERAL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.

THE SPACING BETWEEN TRAFFIC CONTROL AND DETOUR SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE", SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGN SIZES SHALL BE AS FOLLOWS:

- M3-X SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS.)
- M4-8 SHALL BE 24" X 12". (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS.)
- M1-4, M1-5A, AND M1-6 SHALL BE 24" X 24". (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS.)
- MO5-1 AND MO6-1 SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS.)
- M4-9 SHALL BE 30" X 24".
- M4-8a SHALL BE 24" X 18".
- G20-51 SHALL BE 60" X 24".
- W20-2 SHALL BE 48" X 48".
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

* OPTIONAL SIGNS. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS.

** FOR A TOWN ROAD OR LOCAL STREET DETOURED ONTO A STATE TRUNK HIGHWAY, PLACE A ROAD NAME PLAQUE ABOVE THE M4-9 SIGN AS SPECIFIED IN THE CONTRACT.

DETAIL F

DETOUR SIGNING

DETOUR SIGNING FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

Sept. 2015 — DATE

/S/ Peter Amakobe Atepe
STATEWIDE WORK ZO... SAFETY ENGI...

FHWA

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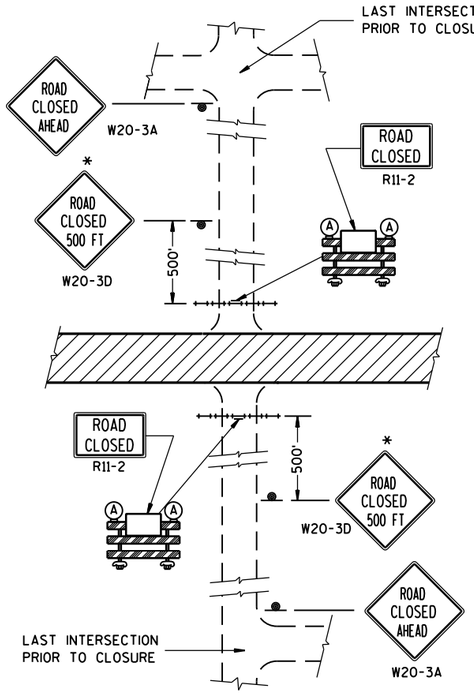
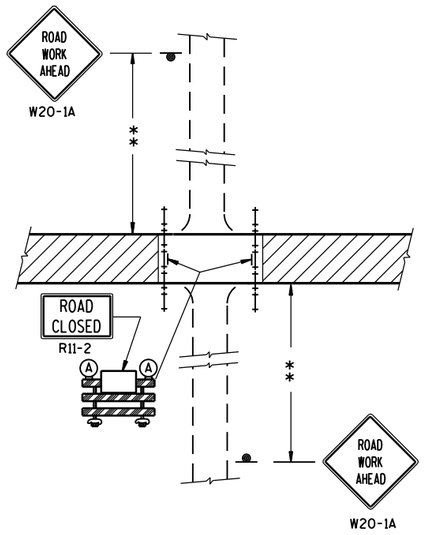
S.D.D. 15 C 2-6c



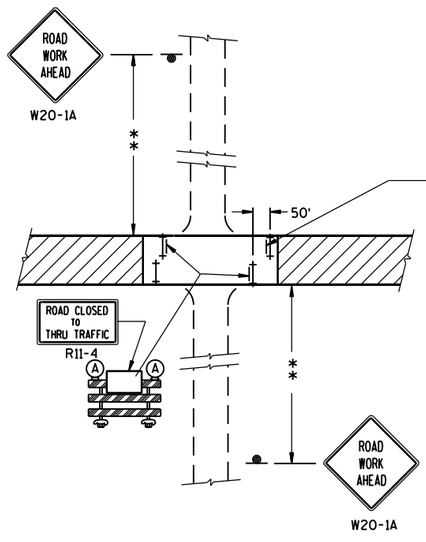
DETAIL 1

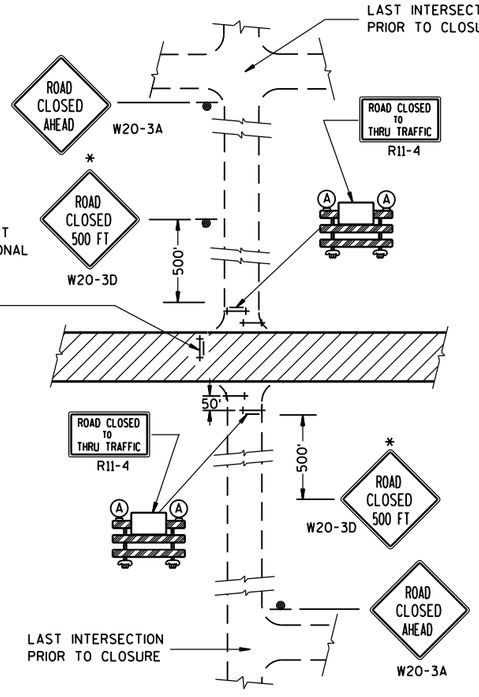
(NO ACCESS TO PROJECT)



DETAIL 2

(PUBLIC CROSS-TRAFFIC MAINTAINED. NO ACCESS TO PROJECT).





DETAIL 3

(PUBLIC CROSS-TRAFFIC MAINTAINED. CONTRACTOR, LOCAL BUSINESS AND RESIDENT ACCESS).

DETAIL 4

(CONTRACTOR, LOCAL BUSINESS AND RESIDENT ACCESS TO PROJECT)

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL D FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3 AND R11-4 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
R11-2 SHALL BE 48" X 30".
R11-4 AND R11-3 SHALL BE 60" X 30".

*OMIT THE "ROAD CLOSED 500 FT." SIGN IF THE LAST INTERSECTION IS 500 FT. OR LESS FROM THE WORK ZONE.

**500' MAX. OR AT LAST INTERSECTION WHICHEVER IS CLOSER.

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2015 — DATE
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZO[illegible]FIC SAFETY ENGI[illegible]
FHWA

6

S.D.D. 15 C 3-3

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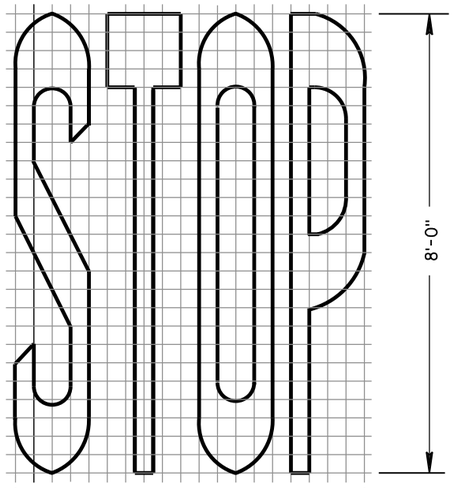
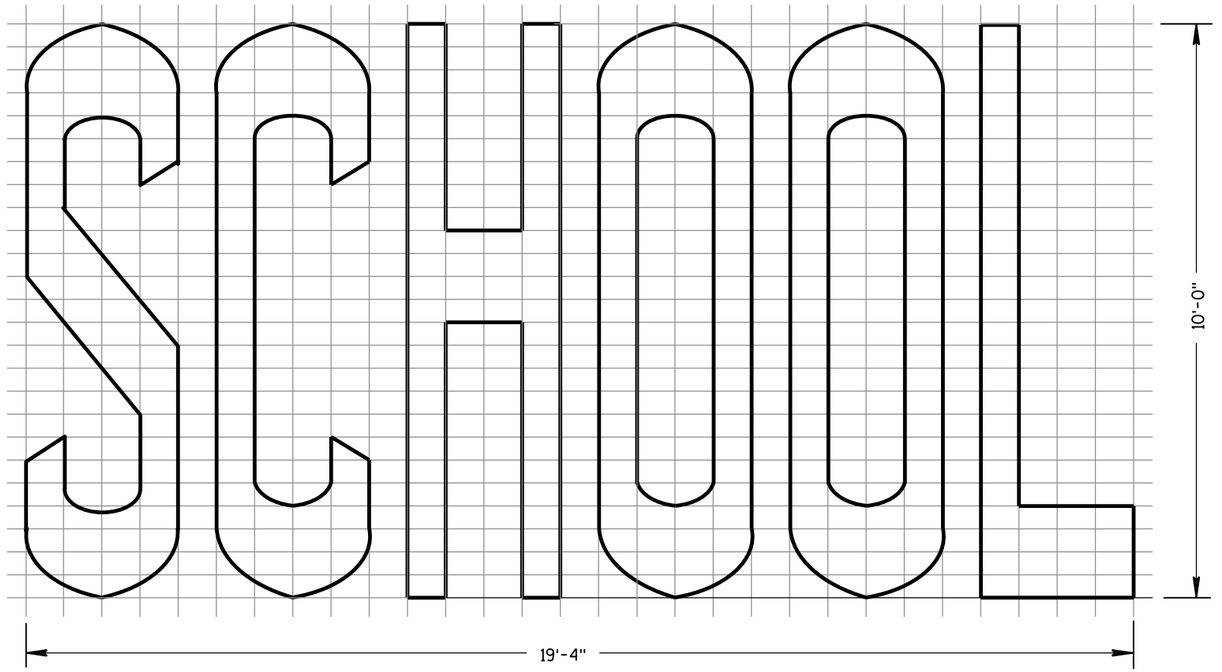
S.D.D. 15 C 3-3

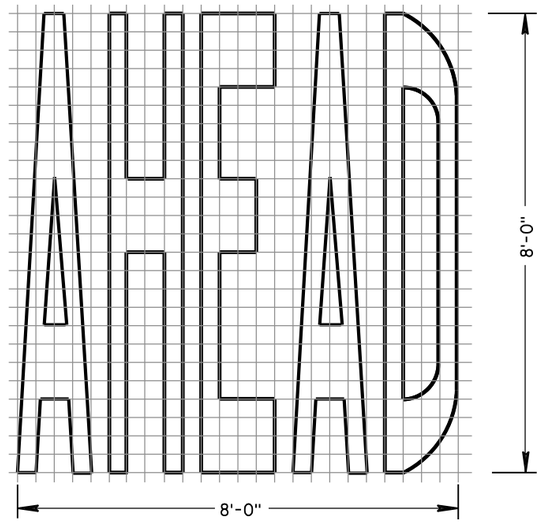
GENERAL NOTES

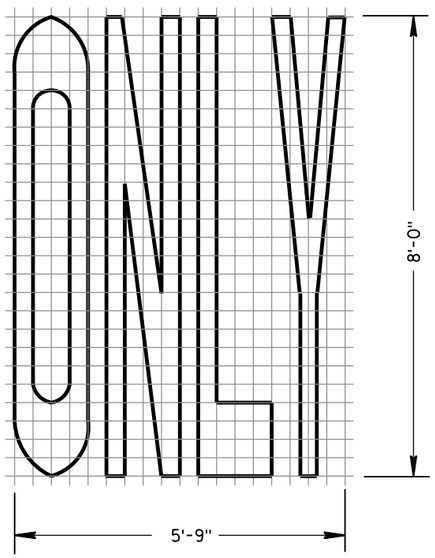
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

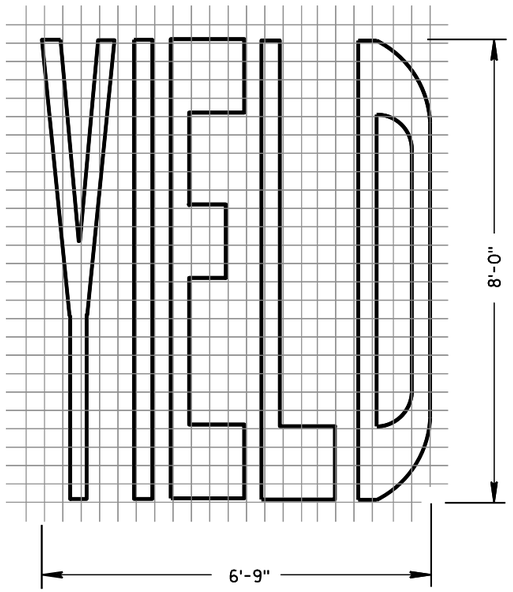


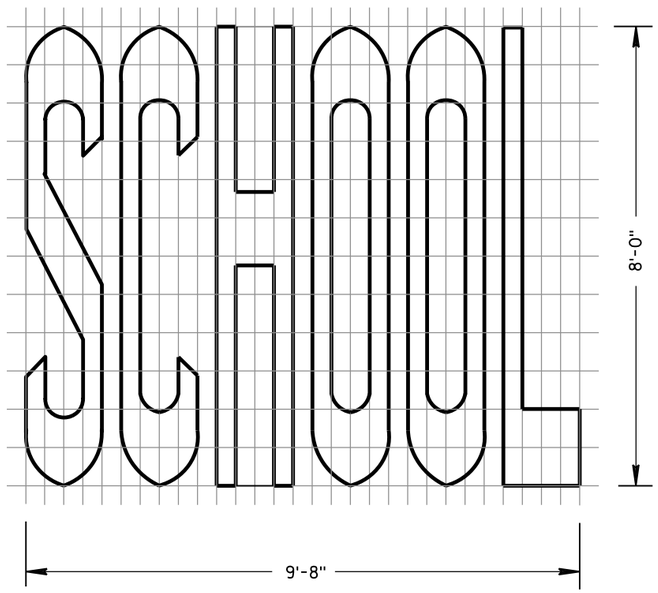


TWO-LANE









SINGLE-LANE

PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

4-18-16	/S/ Matthew R. Rauch	
DATE	STATE SIGNING AND MARK	EER

FHWA

6

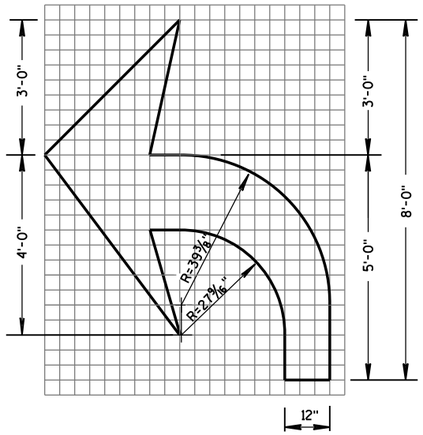
S.D.D. 15 C 7-13b

6

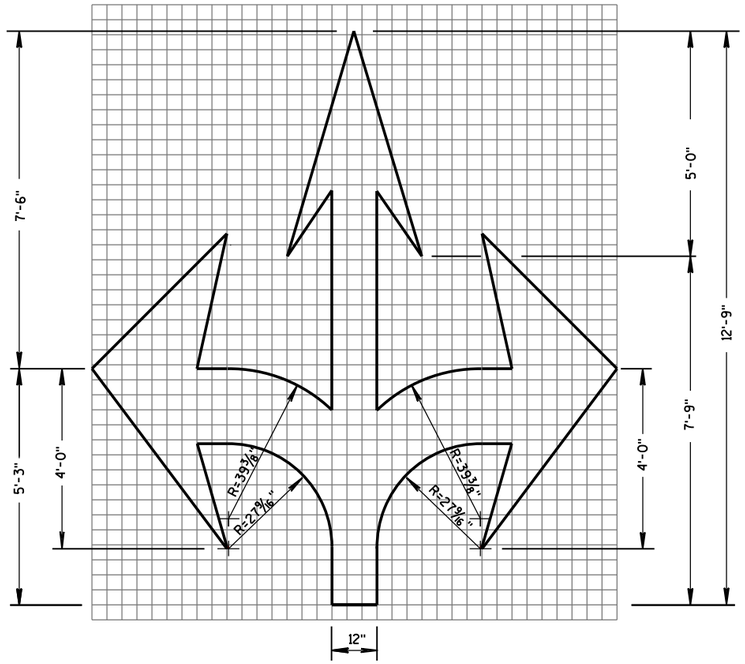
S.D.D. 15 C 7-13b

GENERAL NOTES

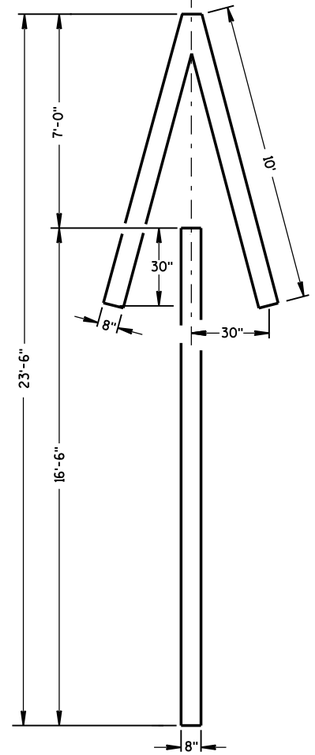
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



TYPE 2



TYPE 6



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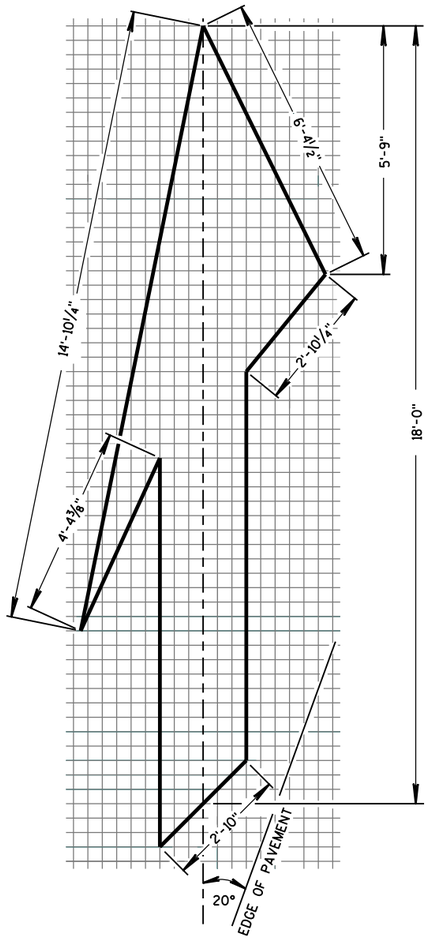
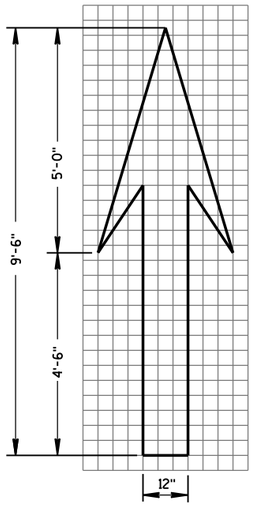
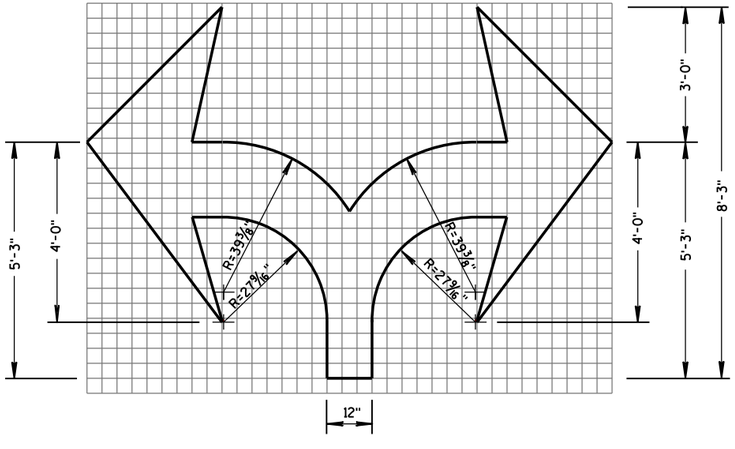


TYPE 5 LANE DROP ARROW



TYPE 1



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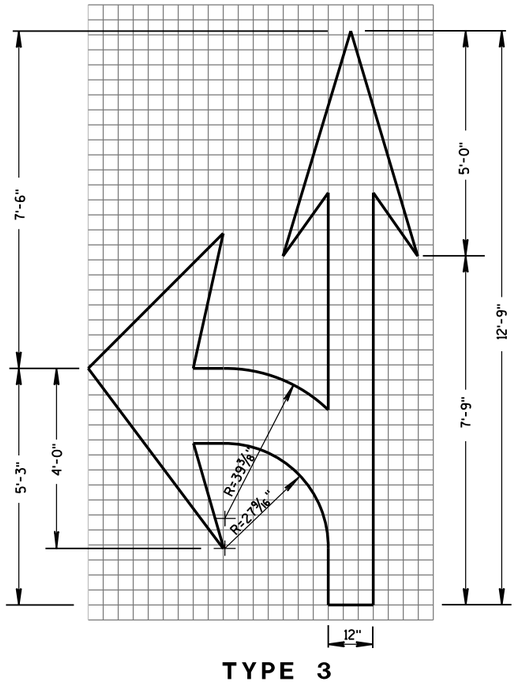

TYPE 3

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4-18-16
DATE
/S/ Matthew R. Rauch
STATE SIGNING AND MAR
ENGINEER
FHWA

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S.D.D. 15 C 7-13c

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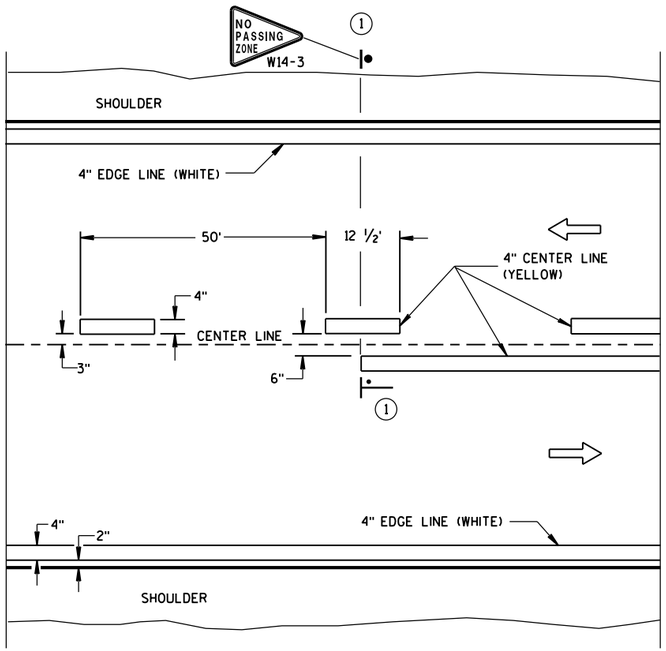
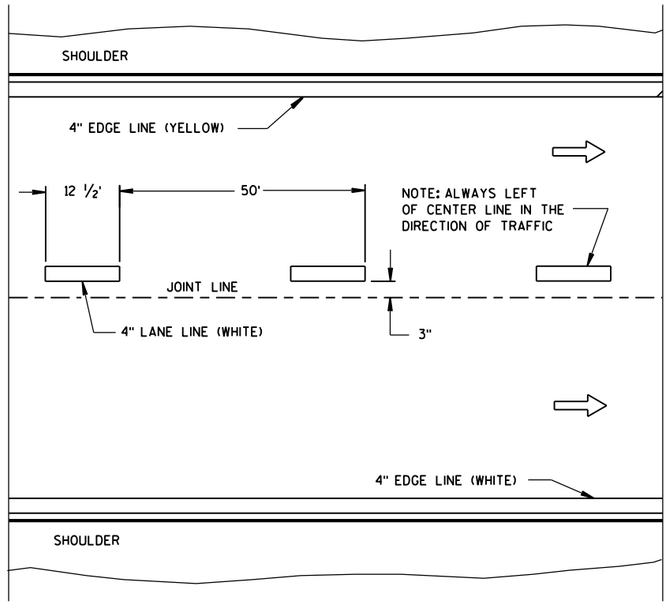
S.D.D. 15 C 7-13c



TWO WAY TRAFFIC



ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING

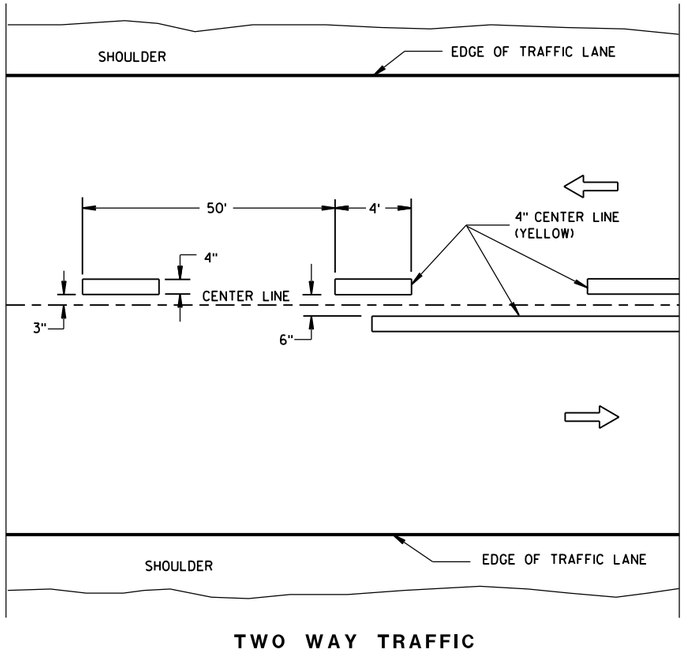
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

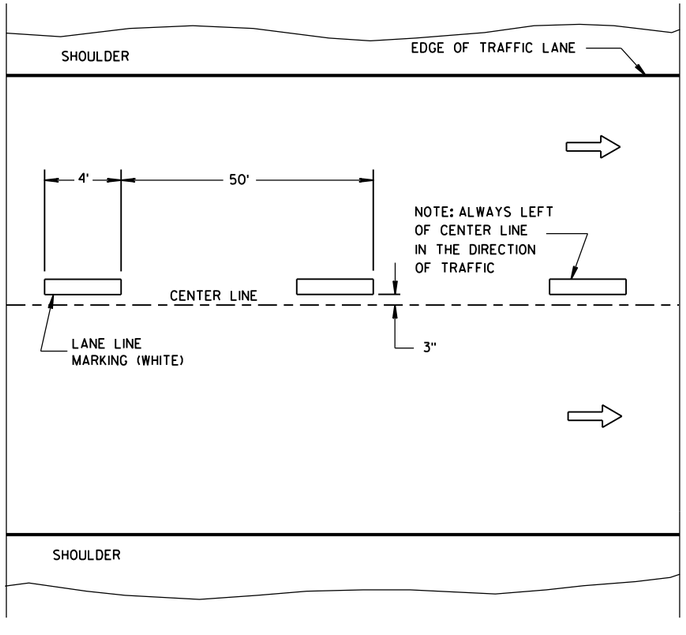
(1) NO PASSING ZONE W14-3 SIGN SHALL BE LOCATED WITHIN 50 FEET OF THE "T" MARKING.

NOTE

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY PAVEMENT MARKING

LEGEND

"T" MARKING

POST MOUNTED SIGN

LONGITUDINAL MARKING (MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2016 — DATE
/S/ Matthew R. Rauch — STATE SIGNING AND MAR[K]ING ENGINEER
FHWA

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S.D.D. 15 C 8-17a

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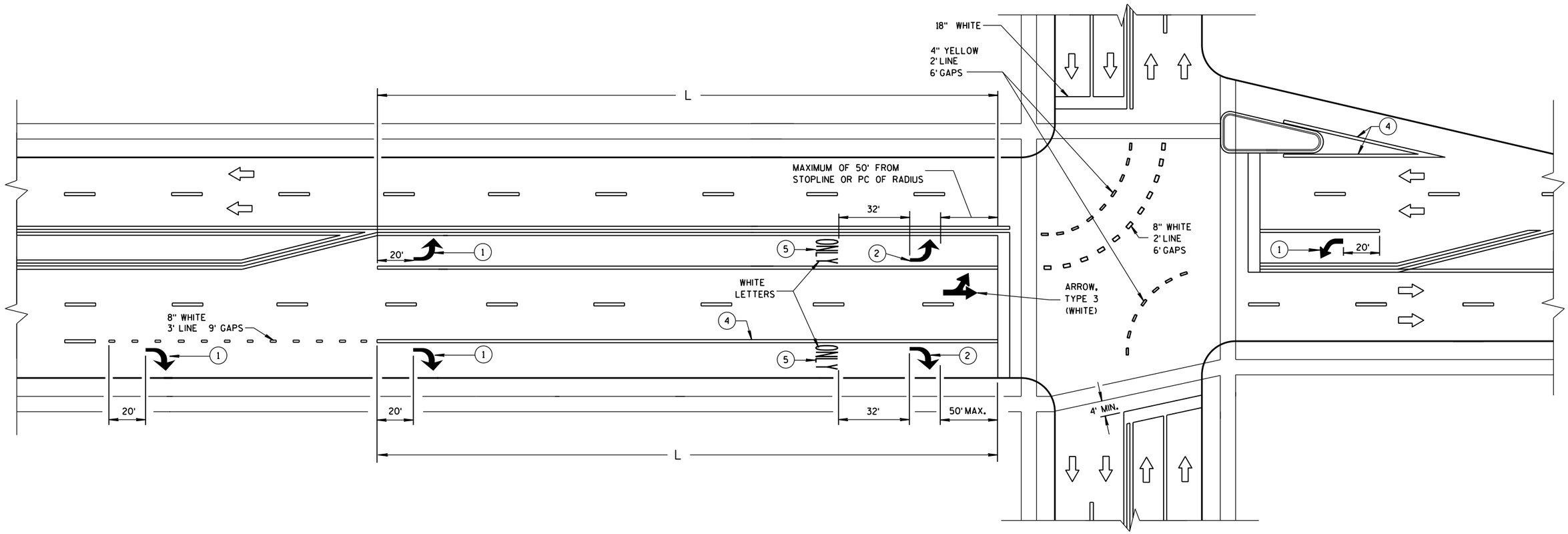
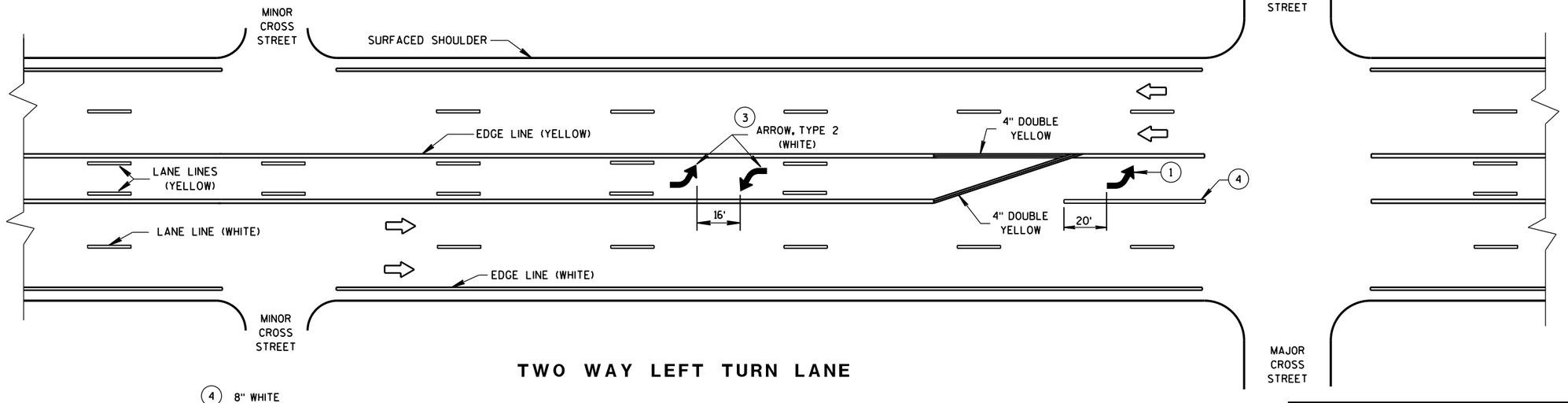
S.D.D. 15 C 8-17a





TWO WAY LEFT TURN LANE

GENERAL NOTES

(1) REQUIRED ARROW, TYPE 2 (WHITE).

(2) REQUIRED ARROW, TYPE 2 (WHITE) WHEN L IS GREATER THAN 78 FEET AND LESS THAN OR EQUAL TO 166 FEET.

(3) A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.

(4) 8" WHITE

(5) REQUIRED WORD ONLY WHEN L IS GREATER THAN 166 FEET.

NOTE:
ARROW SYMBOL (⇨)
SHOWS DIRECTION OF TRAVEL

L = LENGTH OF TURN BAY

PAVEMENT MARKING (TURN LANES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 15 C 8-17b

LEGEND

SIGN ON PORTABLE OR PERMANENT SUPPORT

DIRECTION OF TRAFFIC

WORK AREA

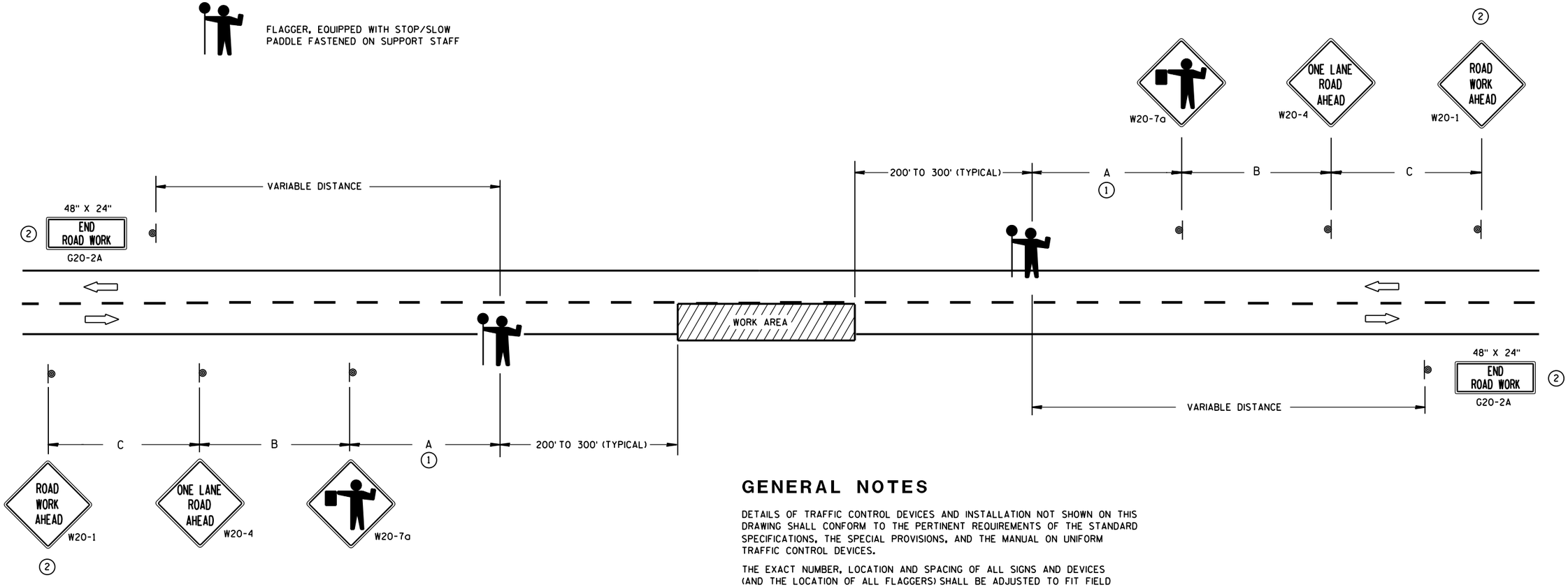
FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

SIGN SPACING TABLE

SPEED LIMIT	SIGN SPACING A,B,C
25-35 MPH	200'
35-40 MPH	350'
45-55 MPH	500'

W3-4

USE OF THE "BE PREPARED TO STOP" SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7a AND W20-4 SIGNS. A 500' TYPICAL SPACING SHALL BE PROVIDED BETWEEN THE SIGNS.



(1) FOR A MOVING WORK OPERATION,
SIGNING FOR BOTH DIRECTIONS SHALL BE REESTABLISHED (AS SIMULTANEOUSLY AS PRACTICAL) AT APPROXIMATELY 3500 FOOT INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.

(2) SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES (AND THE LOCATION OF ALL FLAGGERS) SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT, COVER OR REMOVE ALL TEMPORARY TRAFFIC CONTROL SIGNS.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
8/2013 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

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S.D.D. 15 C 12-4

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S.D.D. 15 C 12-4

LEGEND

SIGN ON PORTABLE OR PERMANENT SUPPORT

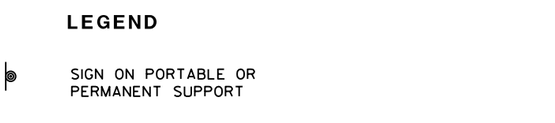
DIRECTION OF TRAFFIC

WORK AREA

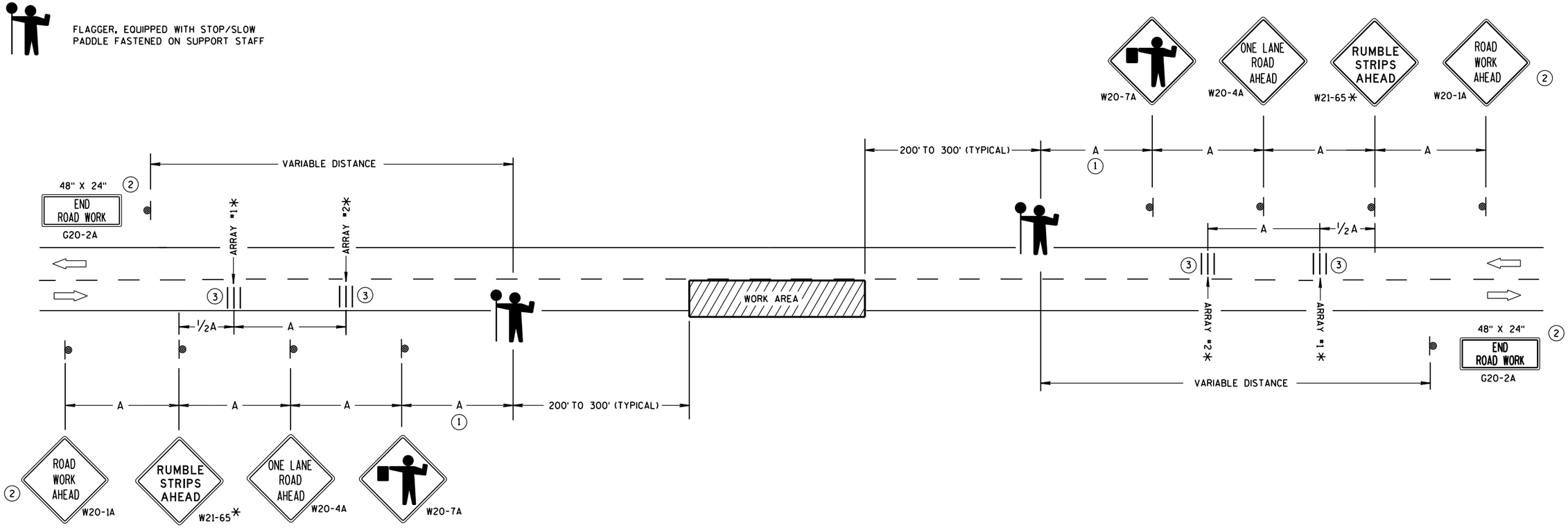
FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

SPEED LIMIT	SPACING A
25-35 MPH	200'
35-40 MPH	350'
45-55 MPH	500'



USE OF THE "BE PREPARED TO STOP" SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7A AND W20-4A SIGNS, USING SPACING A.



TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES (AND THE LOCATION OF ALL FLAGGERS) SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS.

PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT, REMOVE TEMPORARY RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.

* UTILIZE TEMPORARY RUMBLE STRIPS WHEN FLAGGING OPERATION IS ANTICIPATED TO BE STATIONARY IN EXCESS OF TWO HOURS.

(1) FOR A MOVING WORK OPERATION, SIGNING AND TEMPORARY RUMBLE STRIPS (IF USED) SHALL BE REESTABLISHED (AS SIMULTANEOUSLY AS PRACTICAL) AT APPROXIMATELY 3,500 FOOT INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.

(2) SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

(3) EACH TEMPORARY RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS SPACED ACCORDING TO MANUFACTURER'S RECOMMENDATION, PLACED TRANSVERSE ACROSS THE LANE AT LOCATIONS SHOWN.

TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
December, 2016 — /S/ Andrew Heldtke
DATE — WORK ZONE ENG
FHWA

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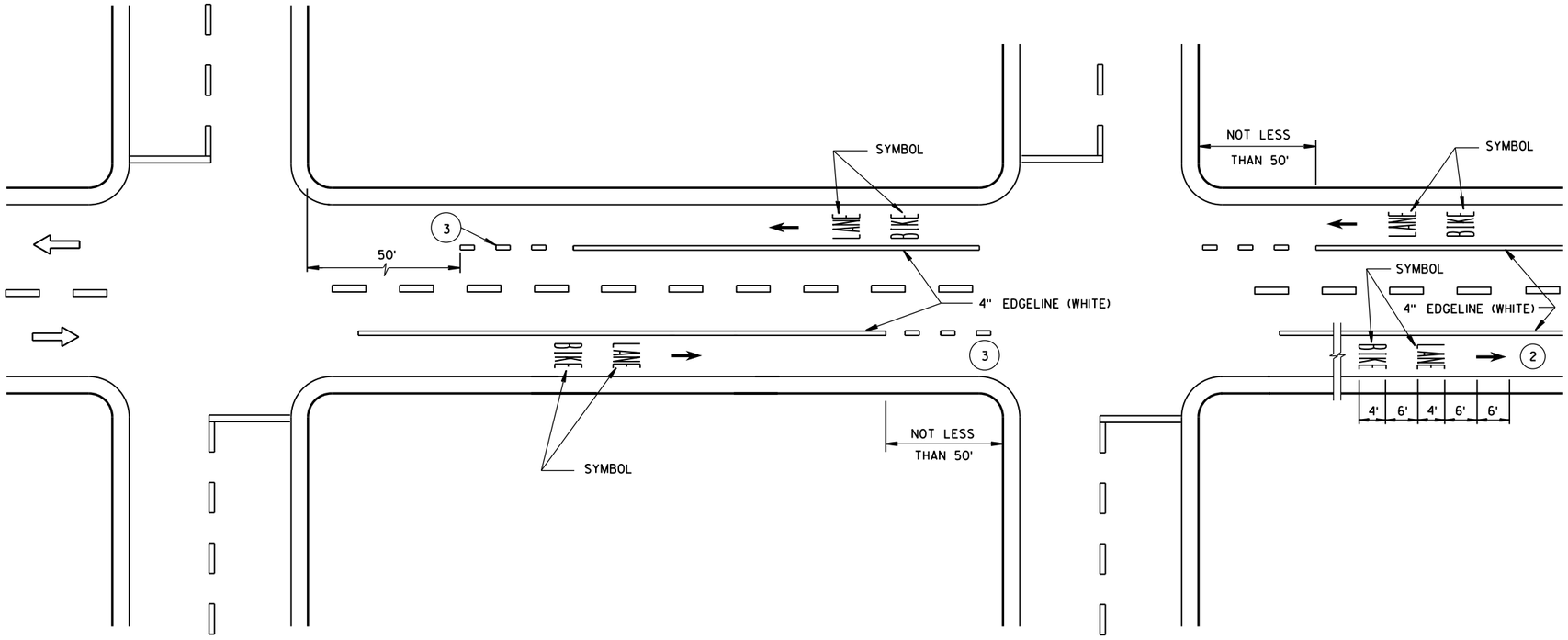
S.D.D. 15 C 12-5

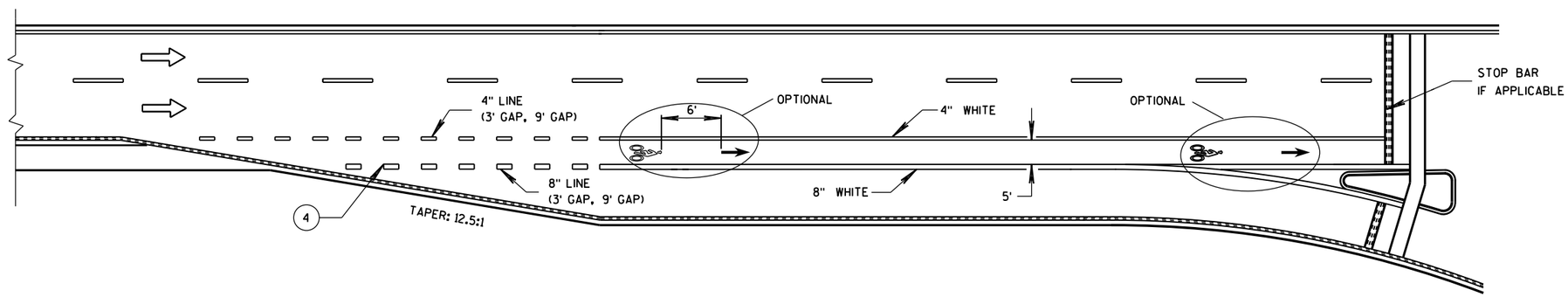


GENERAL NOTES

1. DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
2. MINIMUM OF ONE PER BLOCK. MAXIMUM OF 250 FEET.
3. DOTTED LINES (3'LINE, 9'GAP) SHOULD BE USED 50 FEET TO 200 FEET IN ADVANCE OF AN INTERSECTION WHERE THERE IS NO RIGHT TURN ONLY LANE AND THERE IS HEAVY RIGHT TURN TRAFFIC OR THERE IS A NEAR-SIDE BUS STOP. AT OTHER INTERSECTIONS WHERE RIGHT TURN TRAFFIC IS LIGHT TO MODERATE, A SOLID LINE CAN BE USED UP TO THE INTERSECTION.
4. IF SIGNED AND/OR MARKED AS A BICYCLE FACILITY INCLUDE SECOND LINE OF LINE-SPACE MARKING, OTHERWISE DO NOT.

DIRECTION OF TRAVEL

DESIGNATED BICYCLE LANE
NO PARKING



BIKE LANE - 4-LANE DIVIDED WITH RIGHT TURN LANE

BICYCLE LANE MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4-18-2016 DATE
/S/ Matthew R. Rauch
STATE SIGNING AND MAR NEER
FHWA

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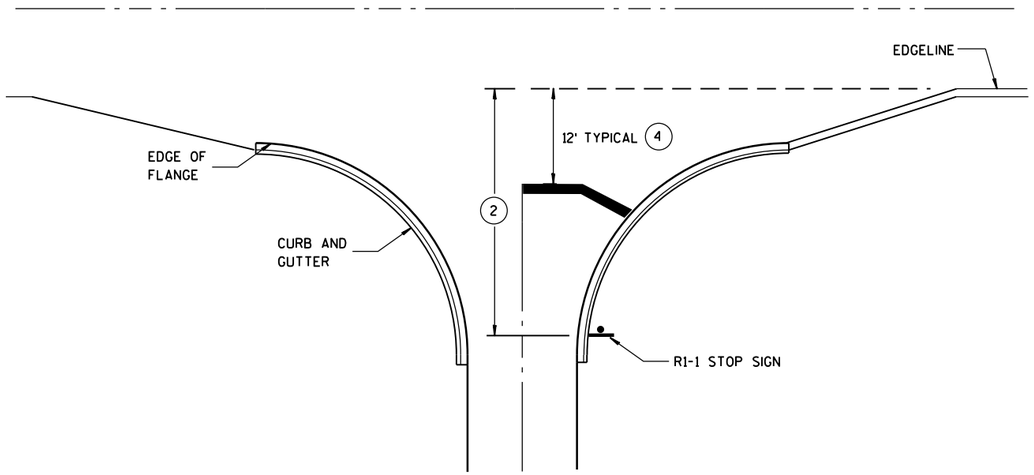
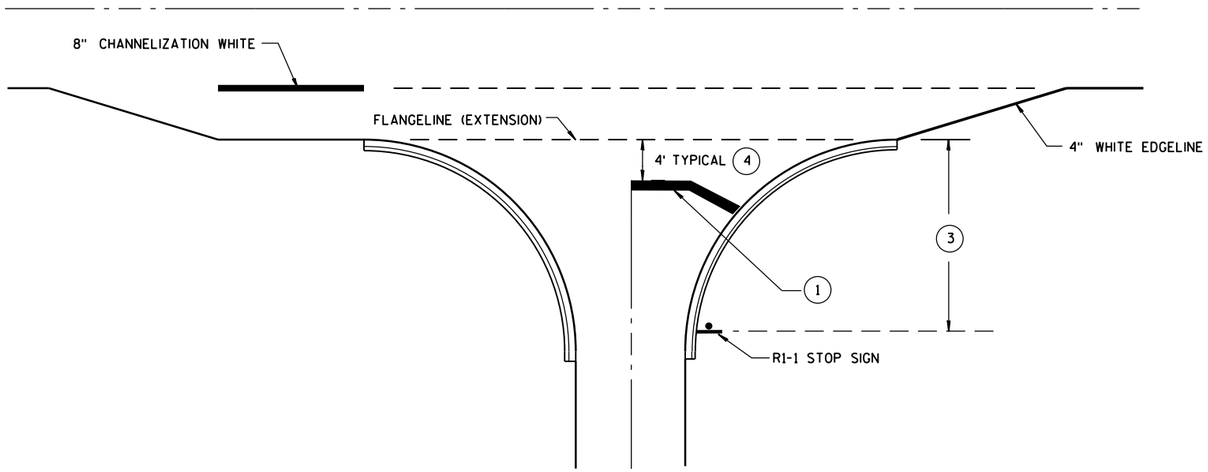
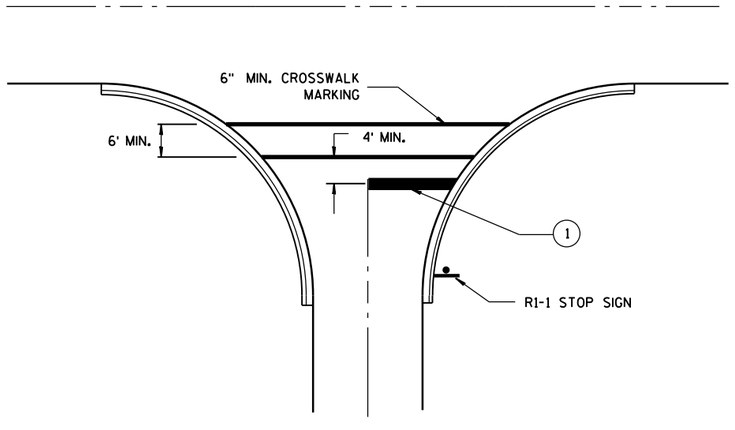
S.D.D. 15 C 29-4a



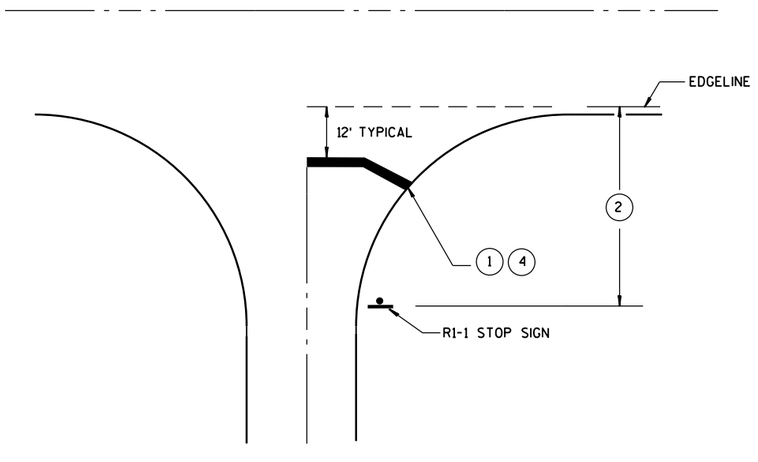
TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING



TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

GENERAL NOTES

1. 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE PROJECT ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
2. IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE THAN NO STOP LINE IS REQUIRED.
3. IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE EXTENSION THAN NO STOP LINE IS REQUIRED.
4. MOVE CLOSER TO EDGE OF TRAVEL LANE AS NEEDED FOR VISIBILITY AND SIGHT LINES. (NO CLOSER THAN 4 FEET).

STOP LINE AND CROSSWALK PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

4-18-2016
DATE

/S/ Matthew R. Rauch
STATE SIGNING AND MAR[illegible]NEER

FHWA

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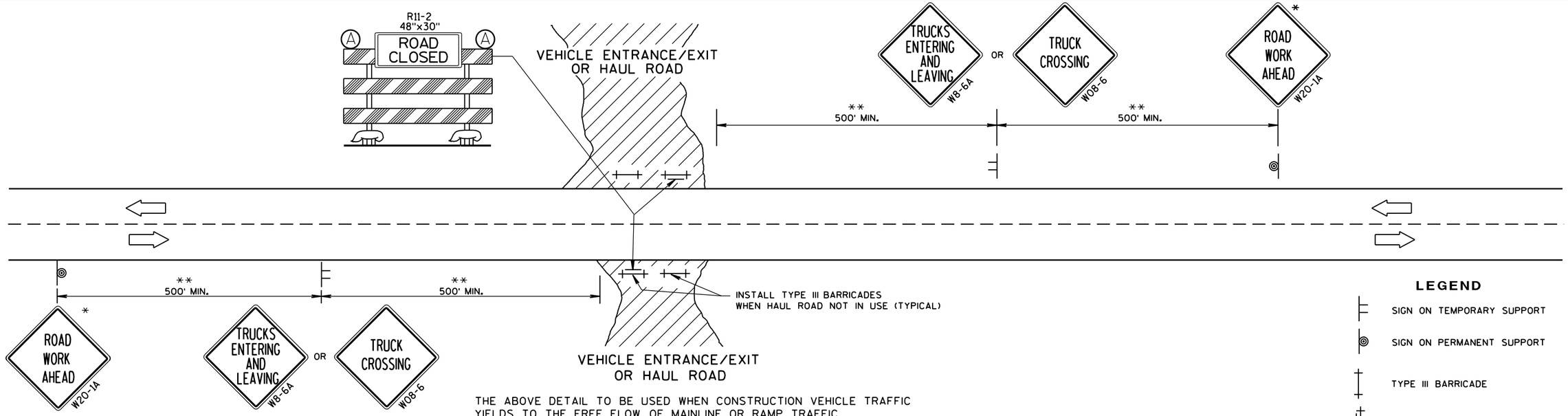
S.D.D. 15 C 33-2



THE ABOVE DETAIL TO BE USED WHEN CONSTRUCTION VEHICLE TRAFFIC YIELDS TO THE FREE FLOW OF MAINLINE OR RAMP TRAFFIC

LEGEND

- SIGN ON TEMPORARY SUPPORT
- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS, DEVICES AND FLAGGERS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

WHEN ACTIVITY REFLECTED BY THE SIGN IS NOT CURRENTLY TAKING PLACE, THE HIGHWAY SHALL BE RESTORED TO NORMAL CONDITION AND THE SIGNS SHALL BE REMOVED, COVERED OR TURNED AWAY FROM TRAFFIC.

WHEN A SIDE ROAD OR RAMP INTERSECTS WITHIN THE ADVANCE SIGNING AREA, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

* THESE SIGNS ARE TO BE USED ONLY WHEN VEHICLE **ENTRANCE/EXIT CONDITIONS ARE SEPARATED BY MORE THAN 2 MILES** FROM PREVIOUS WORK AREA OR SIGNING OR AS DIRECTED BY THE ENGINEER.

** 500 FEET SHOWN IS FOR ROADWAYS WITH A NON-CONSTRUCTION REGULATORY SPEED LIMIT OF 45 MPH OR MORE. FOR 35-40 MPH, USE 350 FEET. FOR 25-30 MPH, USE 200 FEET. USE 1000 FEET/1500 FEET FOR EXPRESSWAY/FREEWAY.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

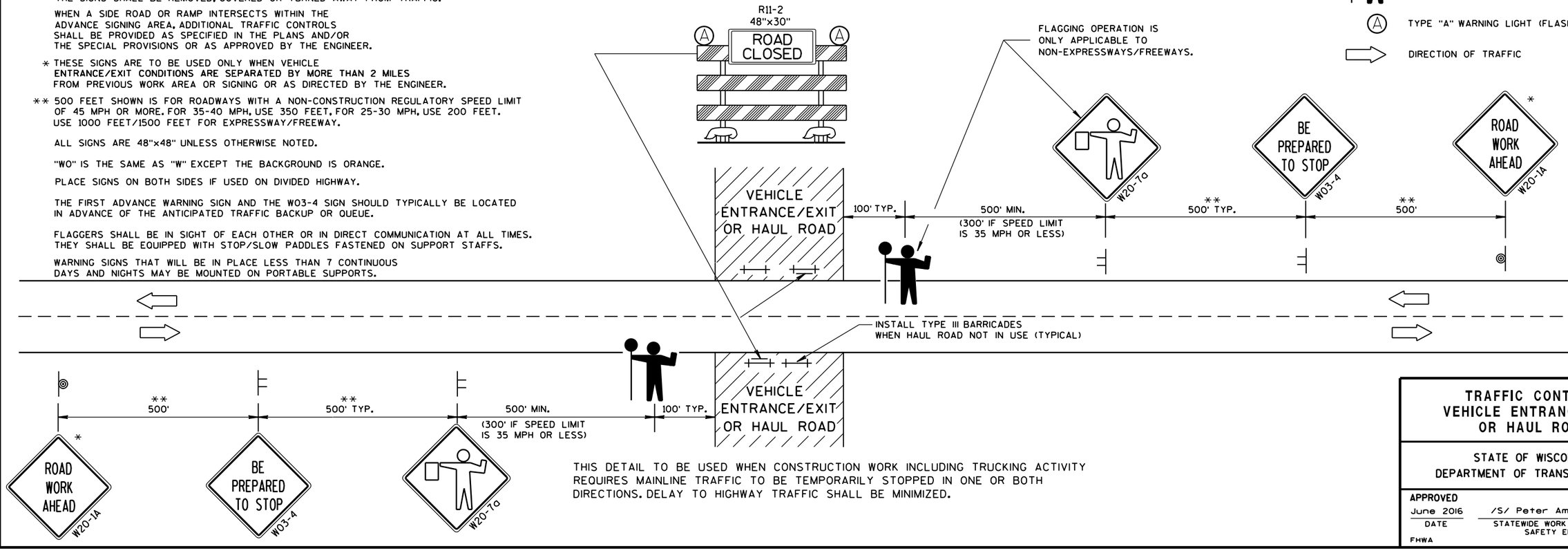
"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

PLACE SIGNS ON BOTH SIDES IF USED ON DIVIDED HIGHWAY.

THE FIRST ADVANCE WARNING SIGN AND THE W03-4 SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS.

WARNING SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.



THIS DETAIL TO BE USED WHEN CONSTRUCTION WORK INCLUDING TRUCKING ACTIVITY REQUIRES MAINLINE TRAFFIC TO BE TEMPORARILY STOPPED IN ONE OR BOTH DIRECTIONS. DELAY TO HIGHWAY TRAFFIC SHALL BE MINIMIZED.

TRAFFIC CONTROL, VEHICLE ENTRANCE/EXIT OR HAUL ROAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June 2016 — DATE

/S/ Peter Amakobe Atepe — STATEWIDE WORK ZONE SAFETY ENGINEER

FHWA

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S.D.D. 15 D 29-4

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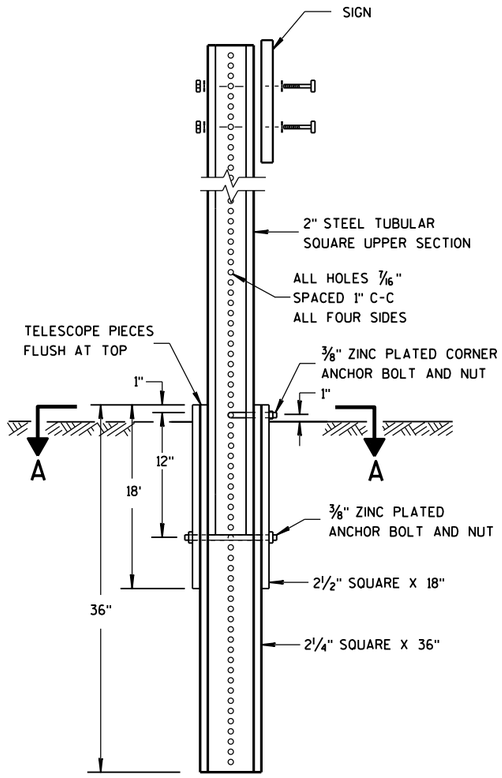
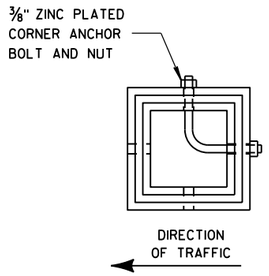
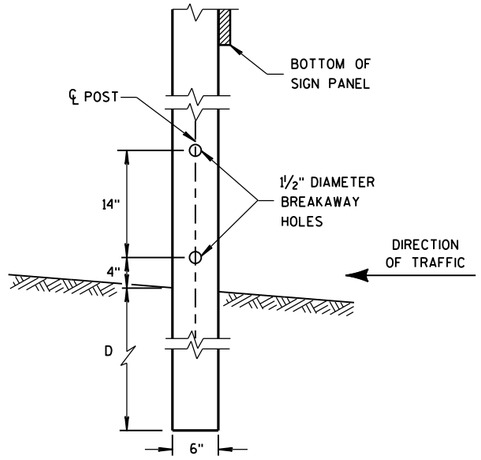
S.D.D. 15 D 29-4



DETAIL OF TUBULAR STEEL SIGN POST



SECTION A-A



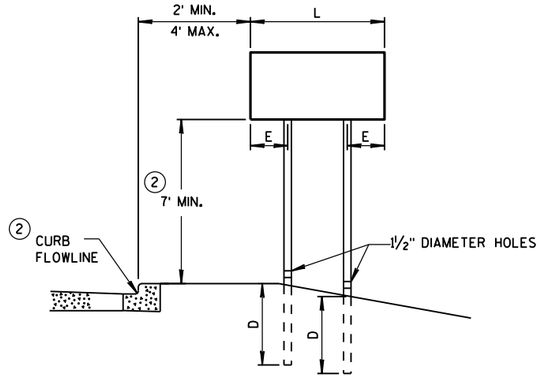
4"x6" WOOD POST MODIFICATION

GENERAL NOTES

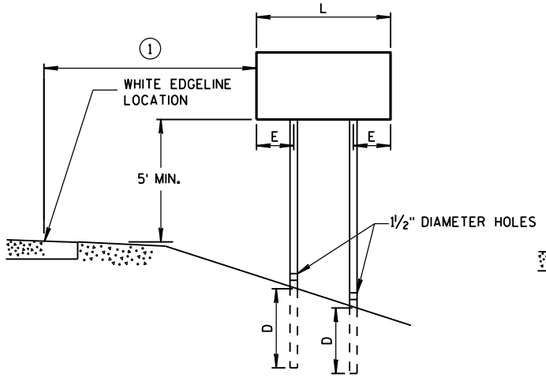
(1) 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.

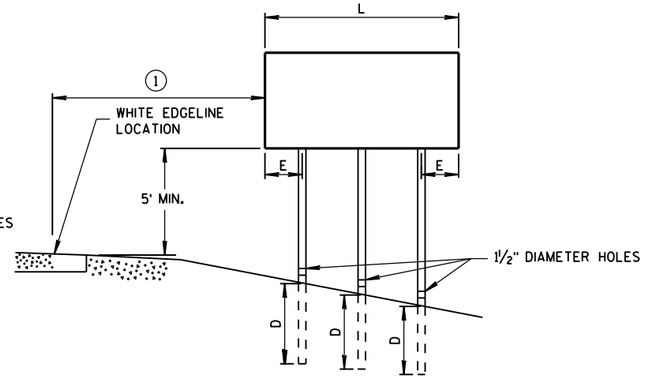
(2) THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY MEASURED WHERE THERE IS SIDEWALK ADJACENT TO THE ROADWAY OR PARKING IS PERMITTED. IN THE ABSENCE OF SIDEWALK, VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE CURB. IF NO SIDEWALK AND NO PARKING, VERTICAL CLEARANCE MAY BE REDUCED TO 5 FOOT MINIMUM. OFFSET OF SIGNS IS MEASURED FROM THE CURB FLOWLINE.

(3) FOR SIGNS REQUIRING 4 POSTS, SPACE INTERMEDIATE POSTS EVENLY.



URBAN AREA





RURAL AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

TUBULAR STEEL POSTS

AREA OF SIGN INSTALLATION (SQ. FT.)	NUMBER OF REQUIRED TUBULAR STEEL POSTS
9 OR LESS	1
GREATER THAN 9 LESS THAN OR EQUAL TO 18	2
GREATER THAN 18 LESS THAN OR EQUAL TO 27	3

SIGNS WIDER THAN 3 FEET OR LARGER THAN 9 SQ. FT. SHALL BE MOUNTED ON MULTIPLE POSTS (SEE ABOVE TABLE).

SIGNS LARGER THAN 27 SQ. FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.

WOOD POST EMBEDMENT DEPTH

AREA OF SIGN INSTALLATION (SQ. FT.)	D (MIN)
20 OR LESS	4'
GREATER THAN 20	5'

4" X 6" WOOD POST

POST SPACING REQUIREMENTS		NUMBER OF WOOD POSTS REQUIRED
L	E	
48" OR LESS AND LESS THAN 20 SQ. FT.	-	1
LESS THAN 60"	12"	2
60" TO 120"	L/5	2
GREATER THAN 120" LESS THAN 168"	12"	3
168" AND GREATER	12"	4

SEE NOTE (3)

TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

STATE OF WISCONSIN DEPARTMENT OF TRANSPOR

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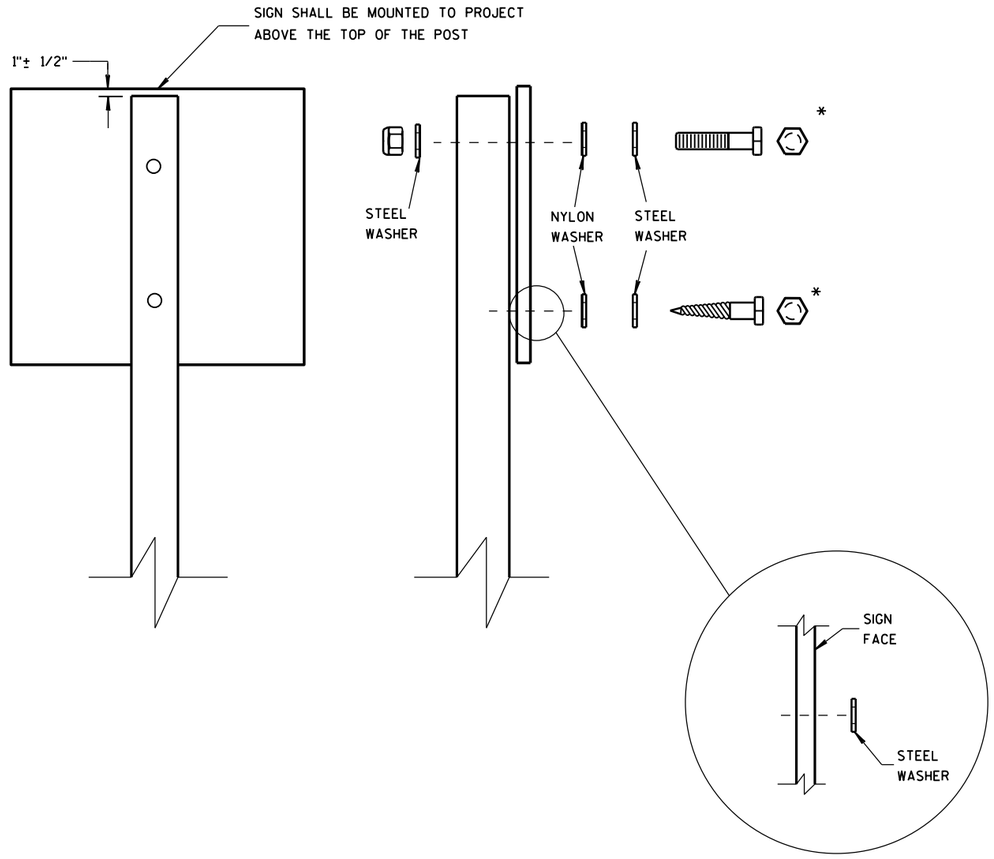
S.D.D. 15 D 38-1a



WASHER PLACEMENT WHEN SIGN HAS OTHER THAN TYPE H OR TYPE F FACE

NUTS, BOLTS AND LAGS USED FOR MOUNTING SIGNS SHALL HAVE HEXAGONAL HEADS AND SHALL BE EITHER:

A. HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: A 153, CLASS D, OR SC 3

B. ELECTRO-GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: B 633, TYPE III, SC 3

THREADS ON BOLTS AND NUTS SHALL BE MANUFACTURED WITH SUFFICIENT ALLOWANCE FOR THE CADMIUM PLATE OR GALVANIZED COATING TO PERMIT THE NUTS TO RUN FREELY ON THE BOLTS.

WOOD POSTS (4" x 4" or 4" x 6")

LAG SCREWS - 3/8" X 3"

MACHINE BOLTS - 5/16" X 6-1/2" OR 7" LENGTH W/ NUTS

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" LENGTH W/ NUTS

RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL

1-1/4" O.D. X 3/8" I.D. X .080 NYLON FOR ALL TYPE H SIGNS

* TWO DIFFERENT FASTENING SYSTEMS ARE SHOWN FOR ILLUSTRATION PURPOSES. ON ANY INDIVIDUAL SIGN, EITHER ONE OR THE OTHER SYSTEM SHALL BE USED. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA. FOR A SINGLE POST INSTALLATION, ALL SIGNS GREATER THAN 9 SQ. FT. REQUIRE THE USE OF 3 FASTENERS.

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S.D.D. 15 D 38-1b

S.D.D. 15 D 38-1b

ATTACHMENT OF SIGNS TO POSTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

Feb. 2015 — DATE

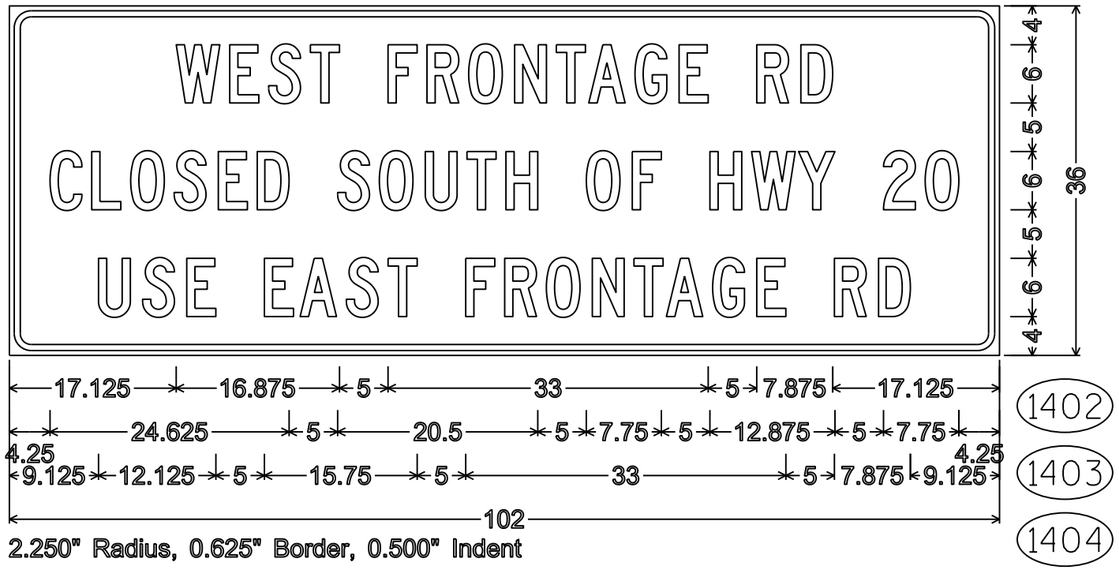
/S/ Travis Feltes — STATE TRAFFIC ENGINEER

FHWA

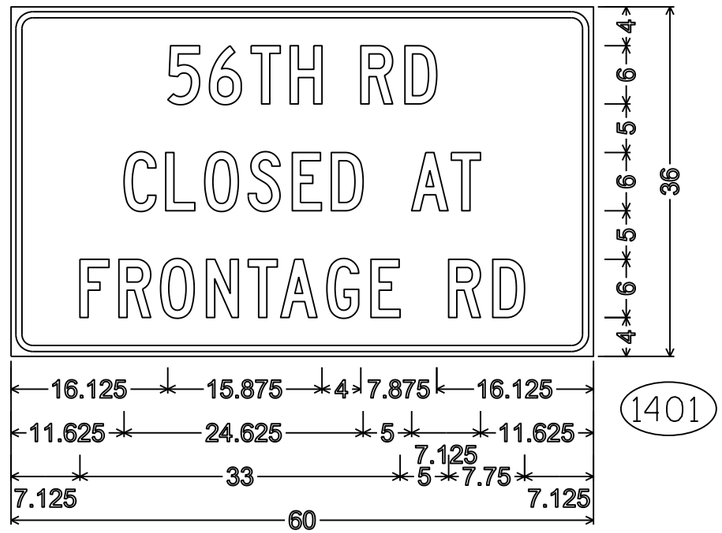
SIGN

NOTES

1. Fixed Message Type II Signs - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C

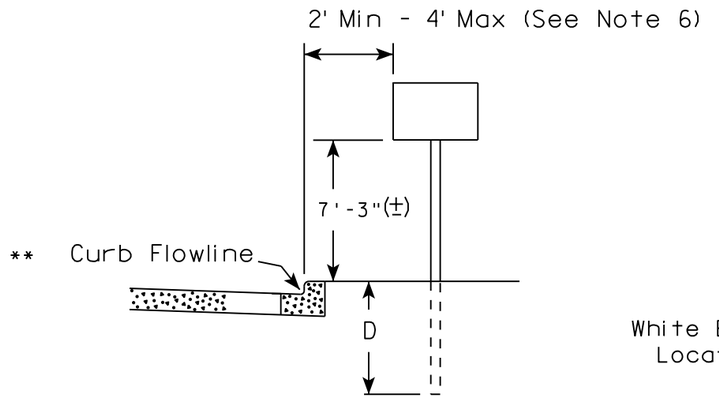


2.250" Radius, 0.625" Border, 0.500" Indent

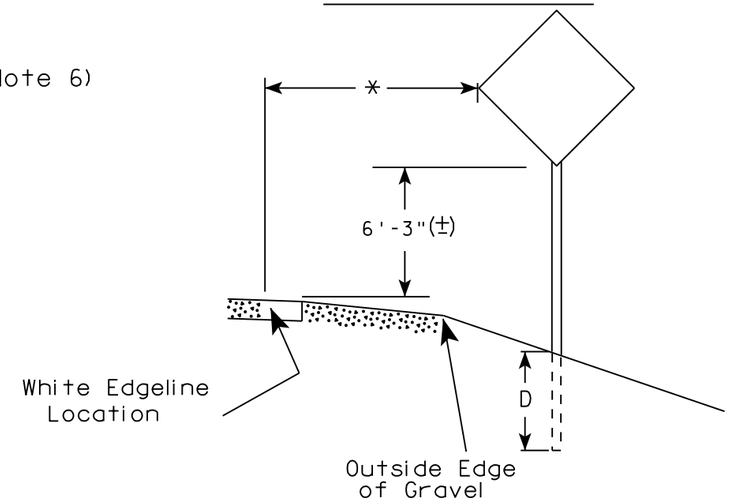


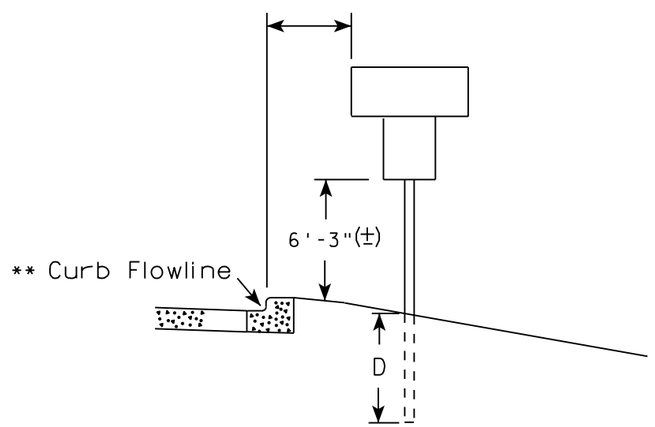
2.250" Radius, 0.625" Border, 0.500" Indent

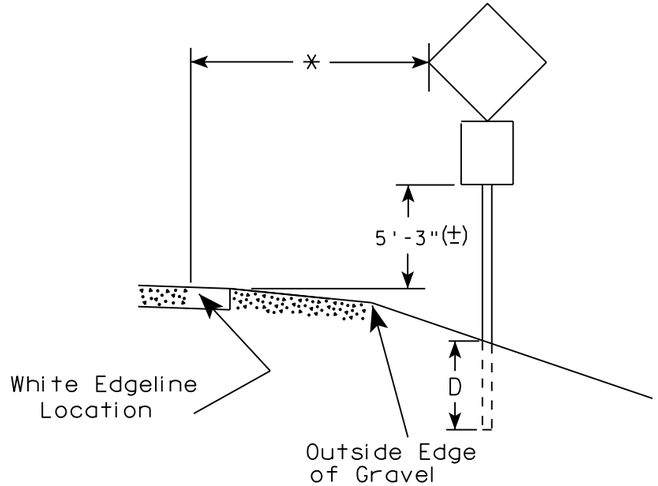
URBAN AREA



RURAL AREA (See Note 2)







** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq.Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on barrier wall, see A4-10 sign plate.
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. J-Assemblies are considered to be one sign for mounting height.
5. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. The (±) tolerance for mounting height is 3 inches.
8. Folding signs shall be mounted at a height of 5'-3" (±) or as directd by the Engineer.
9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).

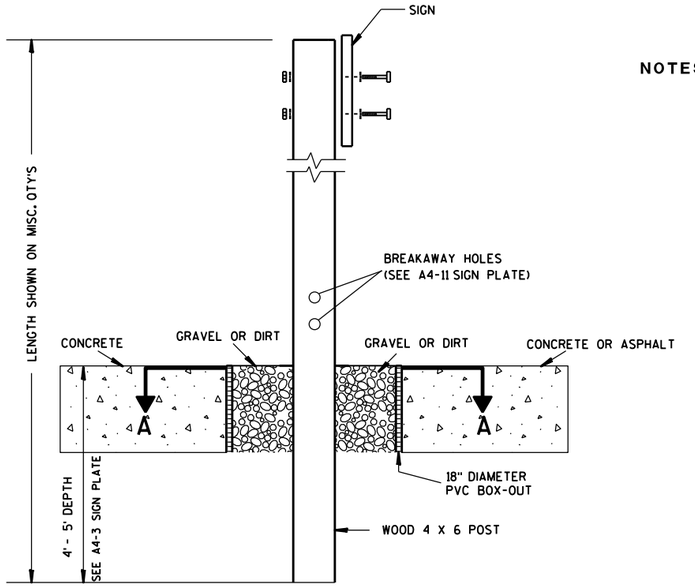
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/21/17 PLATE NO. A4-3.21

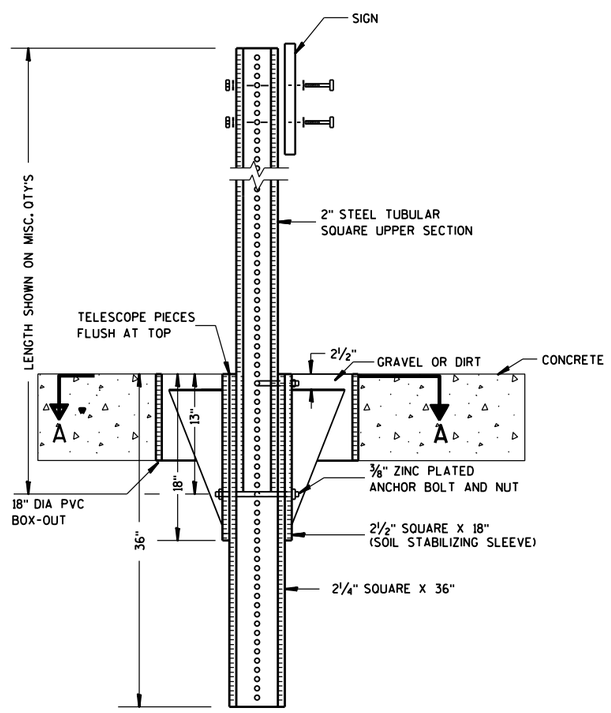
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 168	E



ELEVATION VIEW

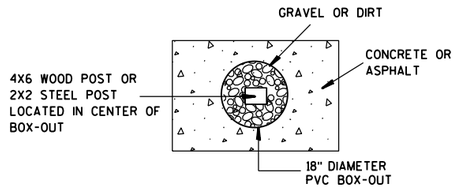
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

NOTES:
1. ALL MATERIAL TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION
2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

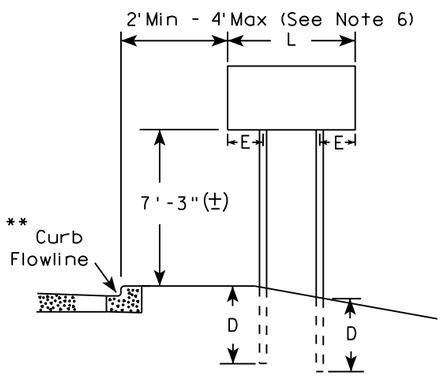
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

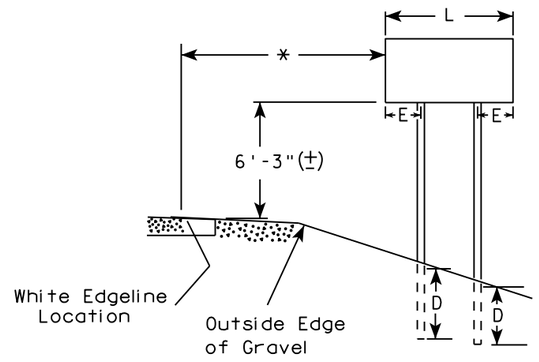
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

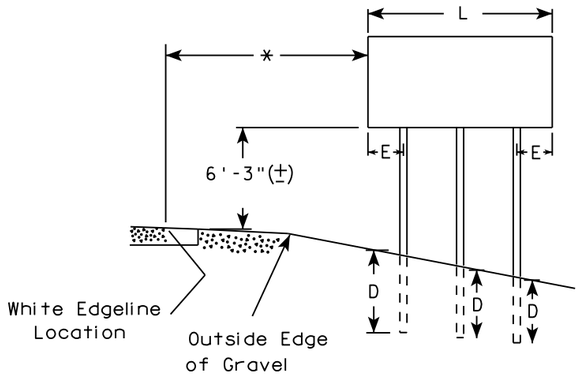
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN PLOT DATE : 27-JAN-2014 09:48 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42

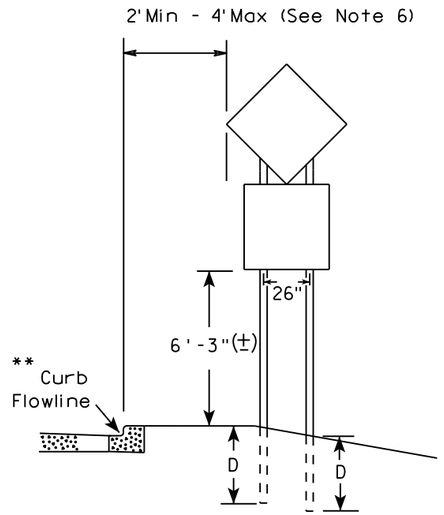
URBAN AREA



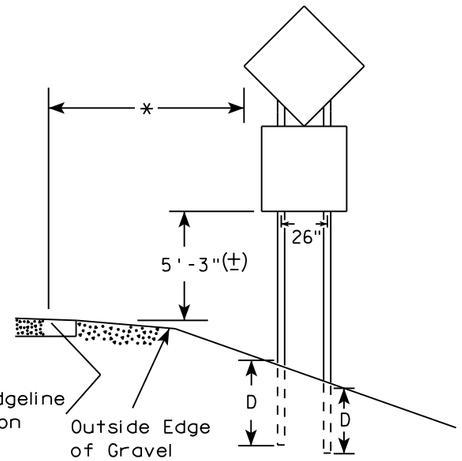
RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)		
	L	E
***	Greater than 48" Less than 60"	12"
	60" to 108"	L/5

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 108" to 144"	12"

GENERAL NOTES

1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
2. See tables below for required number of posts.
3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
4. The (±) tolerance for mounting height is 3 inches.
5. J-Assemblies are considered to be one sign for mounting height.
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±).

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

*** See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

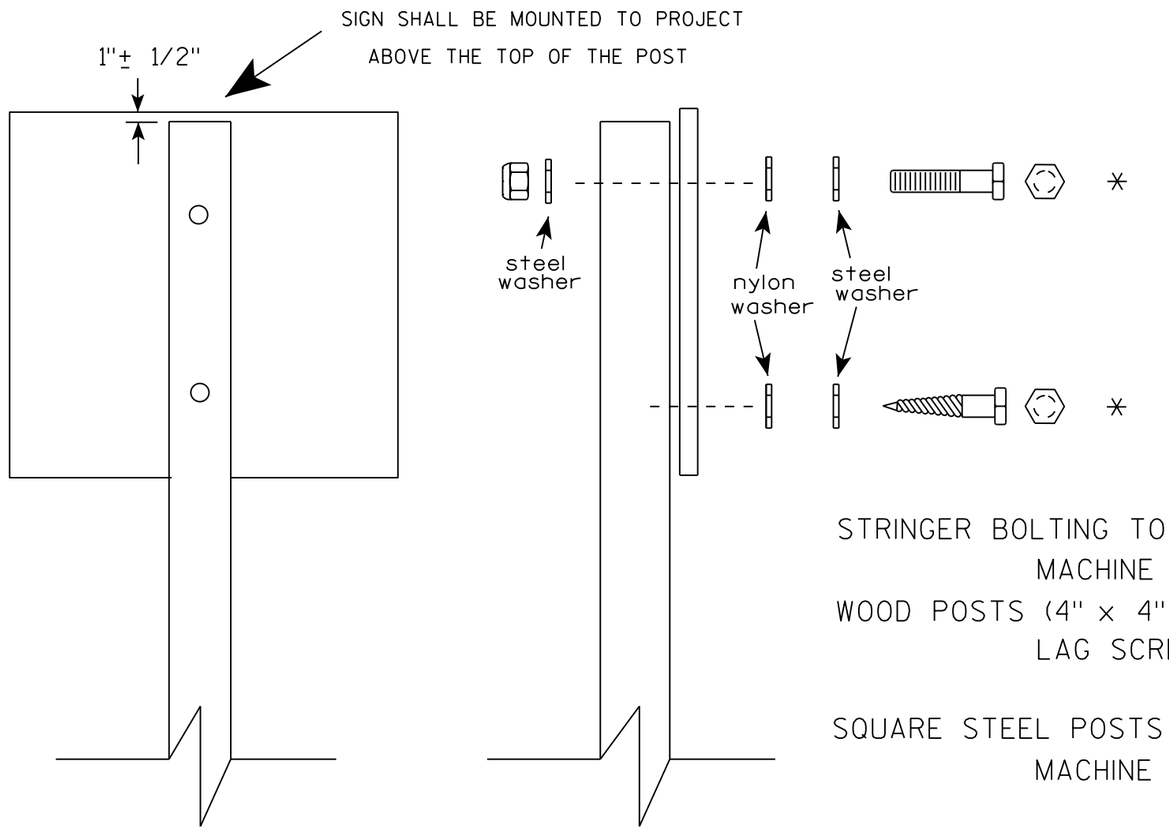
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/21/17 PLATE NO. A4-4.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 170	E



Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3
b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)
MACHINE BOLTS - 5/16" X 1-3/4" Length w/ lock nuts
WOOD POSTS (4" x 4" or 4" x 6")
LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)
3/8" X 4" (STRINGERS ON BACK OF SIGN)
SQUARE STEEL POSTS (2" x 2")
MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)
3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)
RIVETS - 9/32 " (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH
WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON

* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

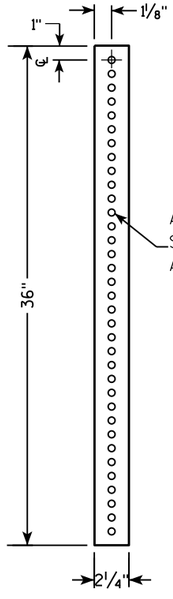
DATE 8/11/16 PLATE NO. A4-8.8

PROJECT NO: SHEET NO: E

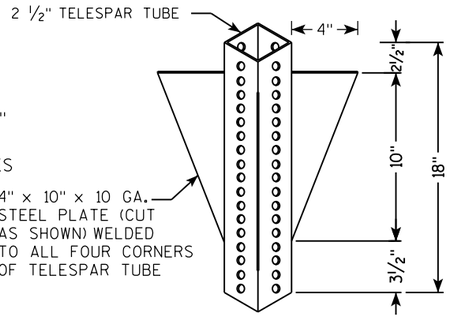
FILE NAME : C:\CADfiles\Projects\tr_stdplate\A48.DGN PLOT DATE : 11-AUG-2016 11:35 PLOT BY : $$ plotuser $$

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

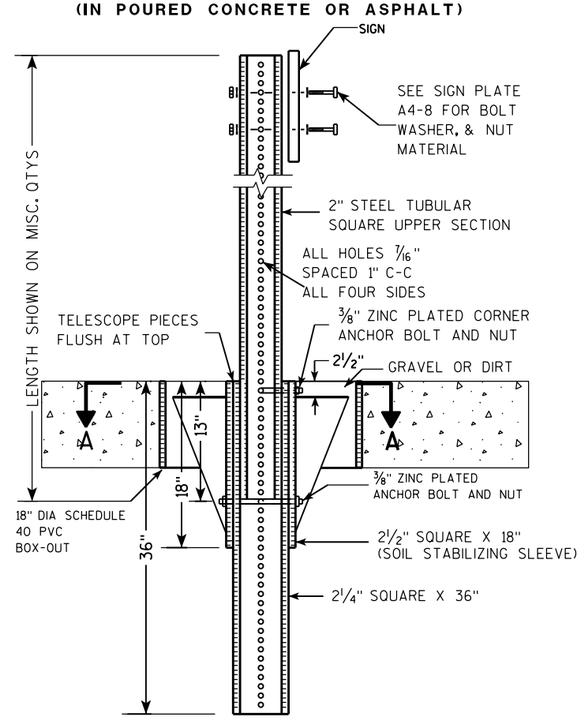
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



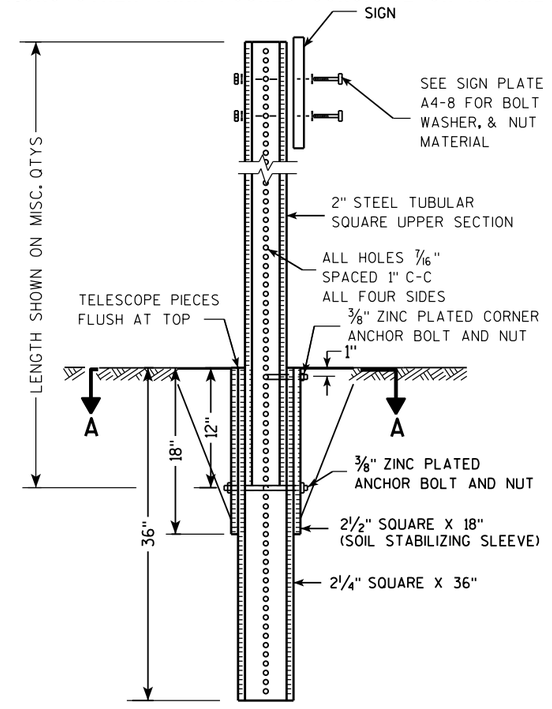
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

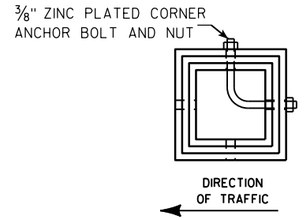


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



DETAIL OF TUBULAR STEEL SIGN POST
(IN LOCATIONS OTHER THAN POURED CONCRETE OR ASPHALT)





SECTION A-A

Area of Sign Installation (Sq. Ft.)	Number of Required Posts
9 or less	1
Greater than 9 less than or equal to 18	2
Greater than 18 less than or equal to 27	3

Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

TUBULAR STEEL
SIGN POST
A4-9

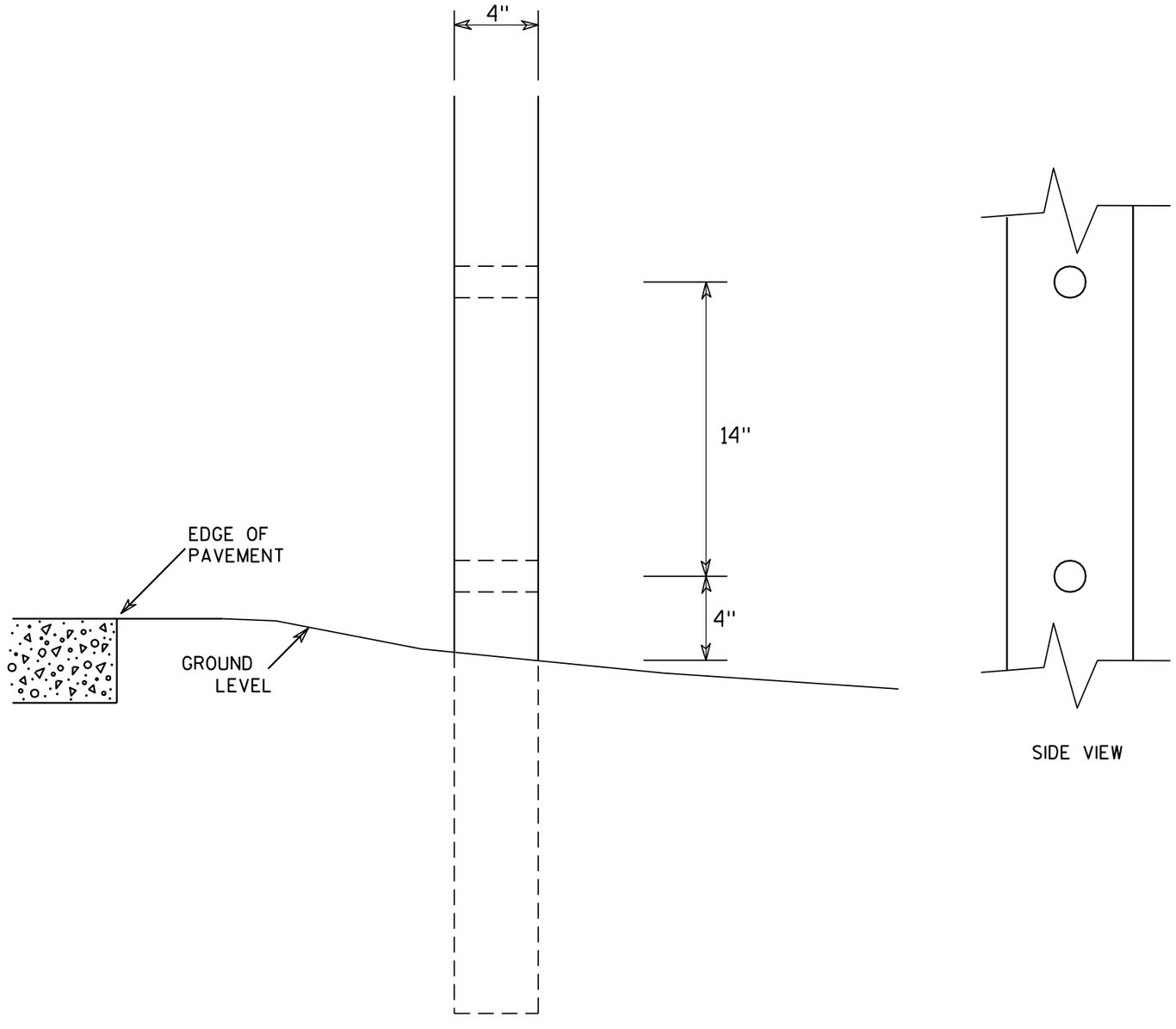
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE A4-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN PLOT DATE : 05-FEB-2015 17:09 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000
WISDOT/CADDS SHEET 42



SIDE VIEW

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

7

7

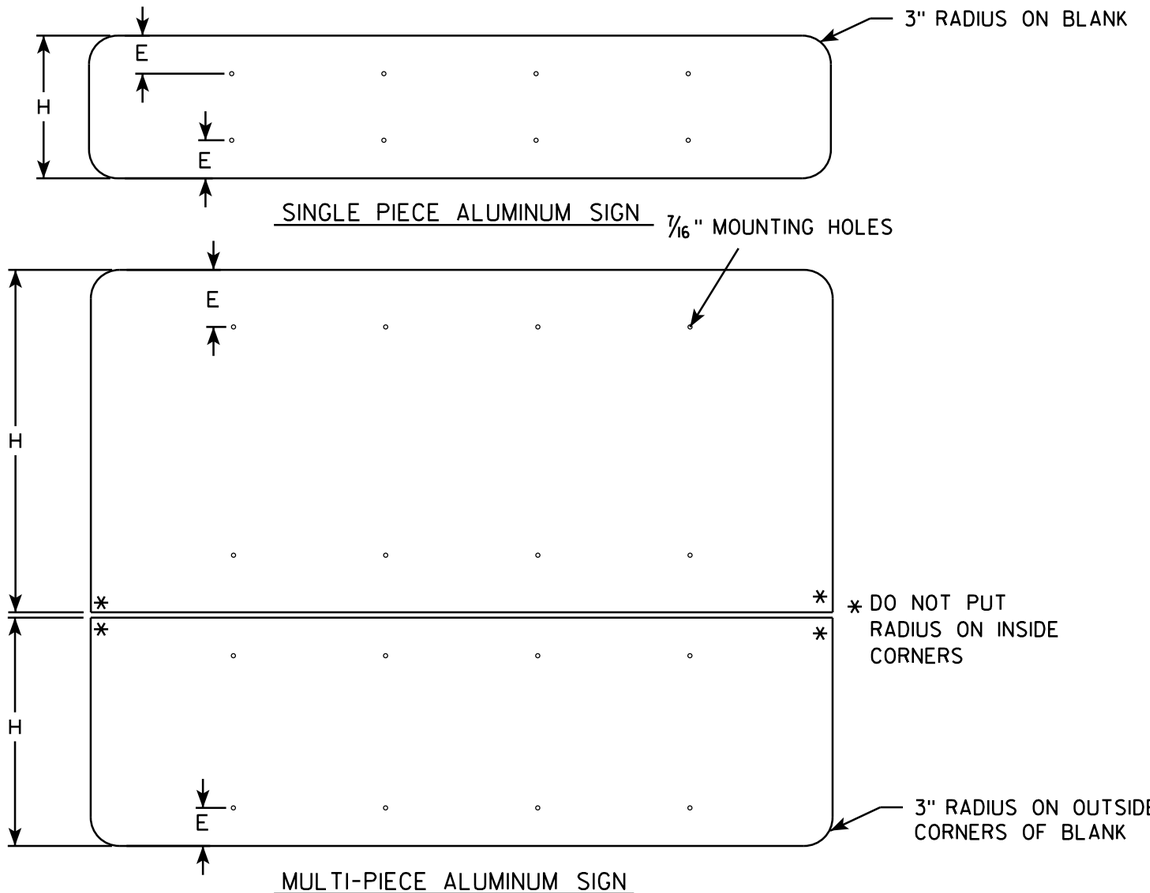
4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang for State Traffic Engineer

DATE 3/27/97 PLATE NO. A4-11.2

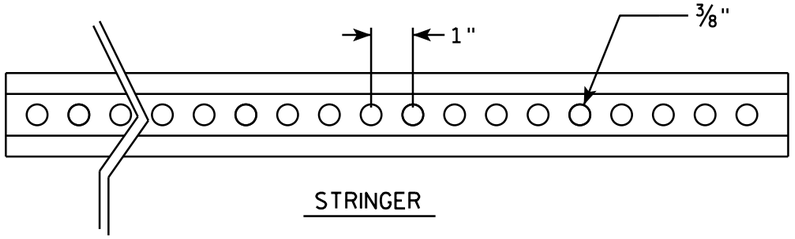
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 173	E



GENERAL NOTES

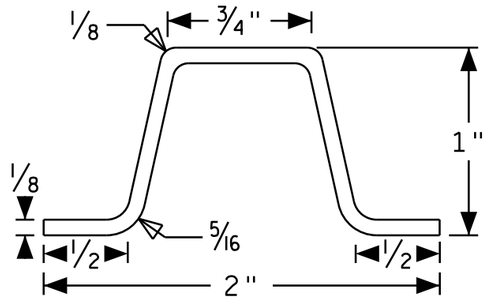
- ALL SIGNS OVER 60" IN WIDTH SHALL HAVE A 3" RADIUS ON THE OUTSIDE CORNERS OF THE ALUMINUM BLANK.
- MOUNTING HOLES SHALL BE 7/16" DIAMETER.
- SEE CHART FOR HOLE SPACING REQUIREMENTS
- FOR SIGN PANELS WITH DIMENSION (H) 36" AND OVER, DIMENSION E SHALL BE 6"
- FOR SIGN PANELS WITH DIMENSION (H) UNDER 36", DIMENSION E SHALL BE 4"
- SIGN STRINGER MATERIAL SHALL CONSIST OF STEEL CHANNEL POST SECTIONS, WEIGHING 1.12 LBS/FT IN ACCORDANCE WITH SECTION 633.2.1 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.
- SEE SIGN PLATE A4-8 FOR SIGN STRINGER BOLTING REQUIREMENTS.

SIGN WIDTH	STRINGER WIDTH	POSTS	HOLE SPACING	MOUNTING HOLES
78"	72"	2	16"	15" 31" 47" 63"
84"	72"	2	17"	16½" 33½" 50½" 67½"
90"	72"	2	18"	18" 36" 54" 72"
96"	90"	2	19"	19½" 38½" 57½" 76½"
102"	90"	2	20"	21" 41" 61" 81"
108"	90"	2	21"	22½" 43½" 64½" 85½"
114"	108"	3	15"	12" 27" 42" 57" 72" 87" 102"
120"	108"	3	16"	12" 28" 44" 60" 76" 92" 108"
126"	108"	3	17"	12" 29" 46" 63" 80" 97" 114"
132"	126"	3	18"	12" 30" 48" 66" 84" 102" 120"
138"	126"	3	19"	12" 31" 50" 69" 88" 107" 126"
144"	126"	3	20"	12" 32" 52" 72" 92" 112" 132"

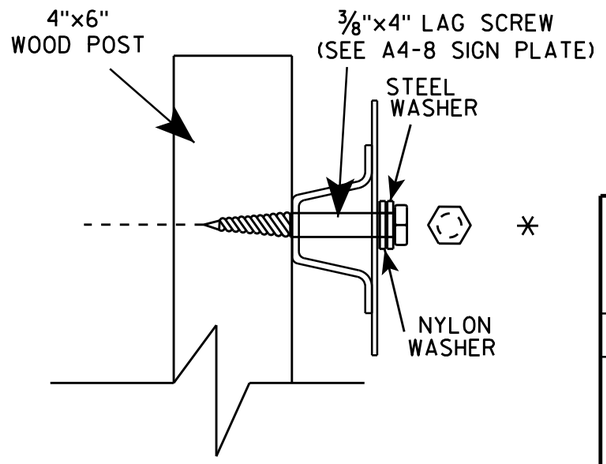


STRINGER

CROSS SECTION VIEW OF CHANNEL



POST MOUNTING



SIGN STRINGER MOUNTING REQUIREMENTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch

for State Traffic Engineer

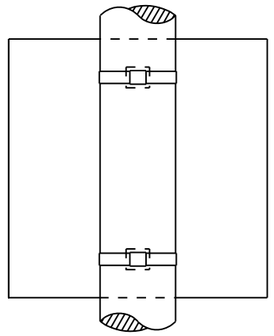
DATE 4/26/16 PLATE NO A4-18.1

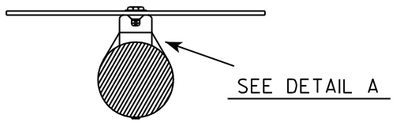
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A418.dgn PLOT DATE : 27-APR-2016 13:56 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 41.805205:1.000000 WISDOT/CADDS SHEET 42

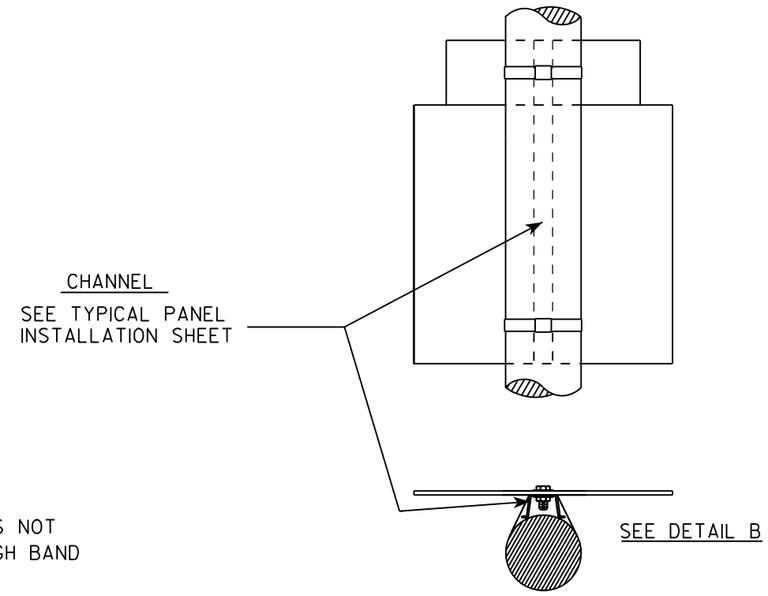
BANDING

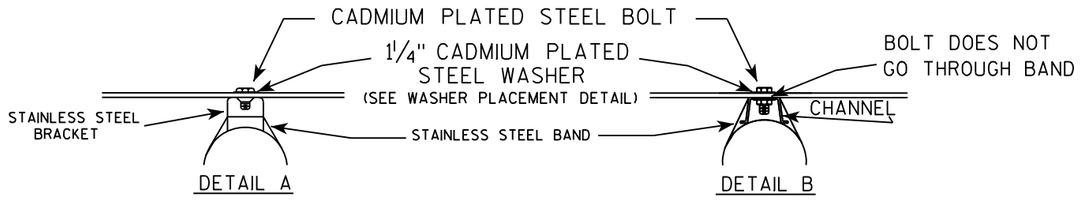
SINGLE SIGN



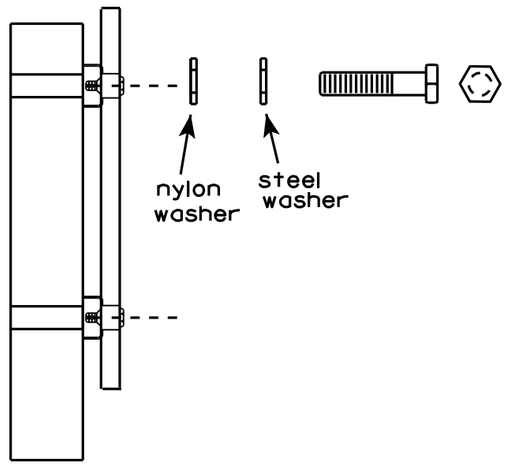


"J" ASSEMBLY





WASHER PLACEMENT



WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be 3/4" in width and 0.025" thickness.

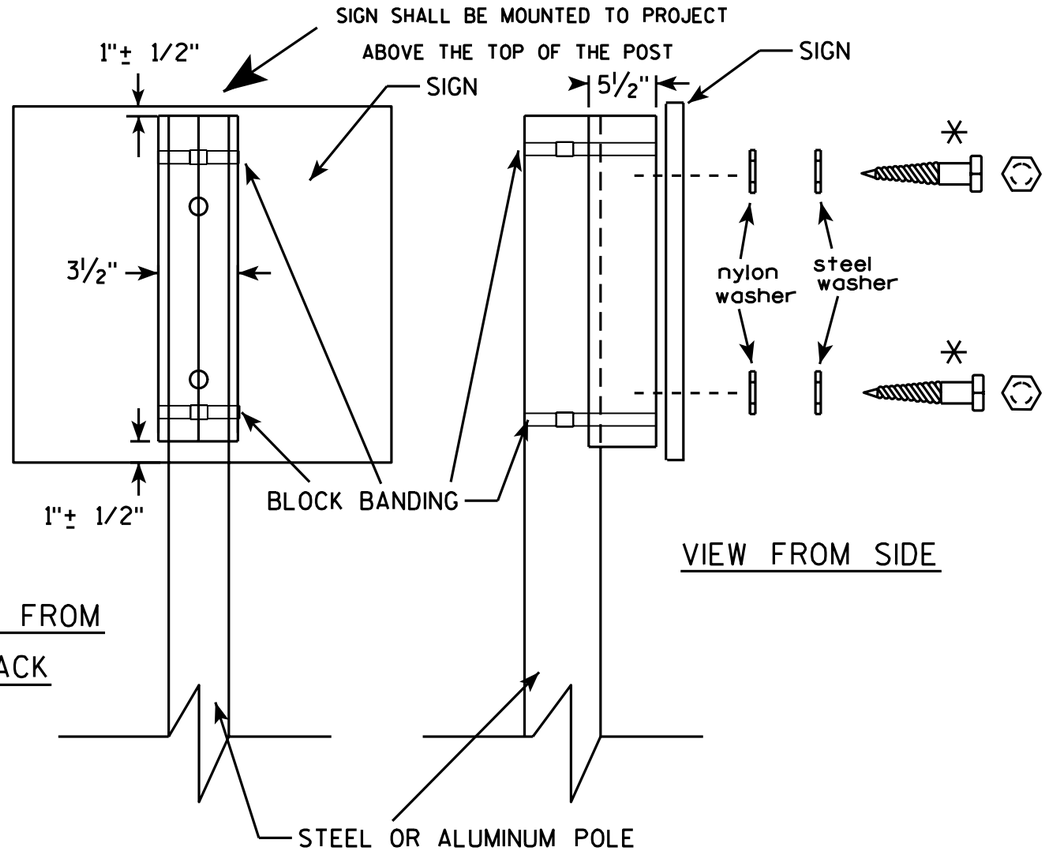
STANDARD SIGN
SIGN BANDING DETAILS

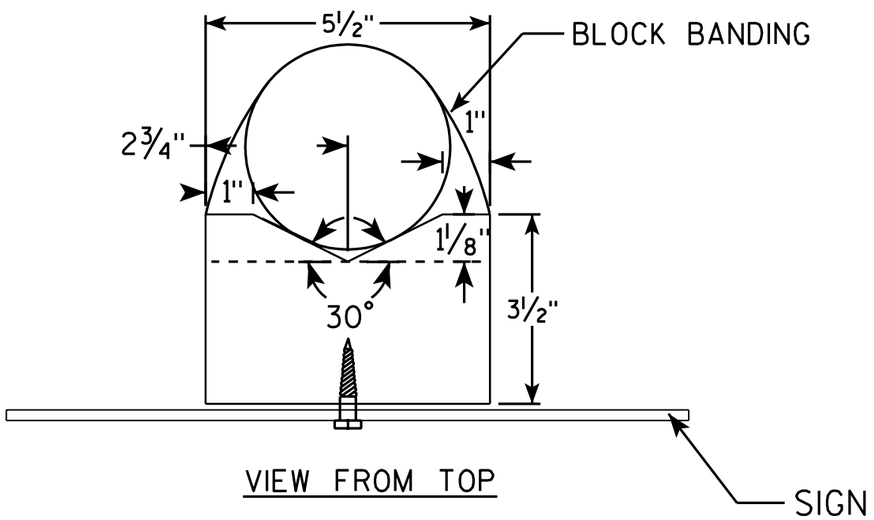
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/16/13 PLATE NO. A5-9.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 175	E





GENERAL NOTES

1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WisDOT STANDARD SPECIFICATIONS
2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, ¾" WIDTH AND 0.025" THICKNESS
3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D, or
   b. Cadmium plated in accordance with ASTM Designation : B 766 TYPE 3, Class 12, or
   c. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.
6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
7. STEEL WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X 1/16"
8. NYLON WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

✳ LAG BOLTS SHALL BE ⅜" X 2½"

BLOCK BANDING DETAIL (V-BLOCK OPTION)

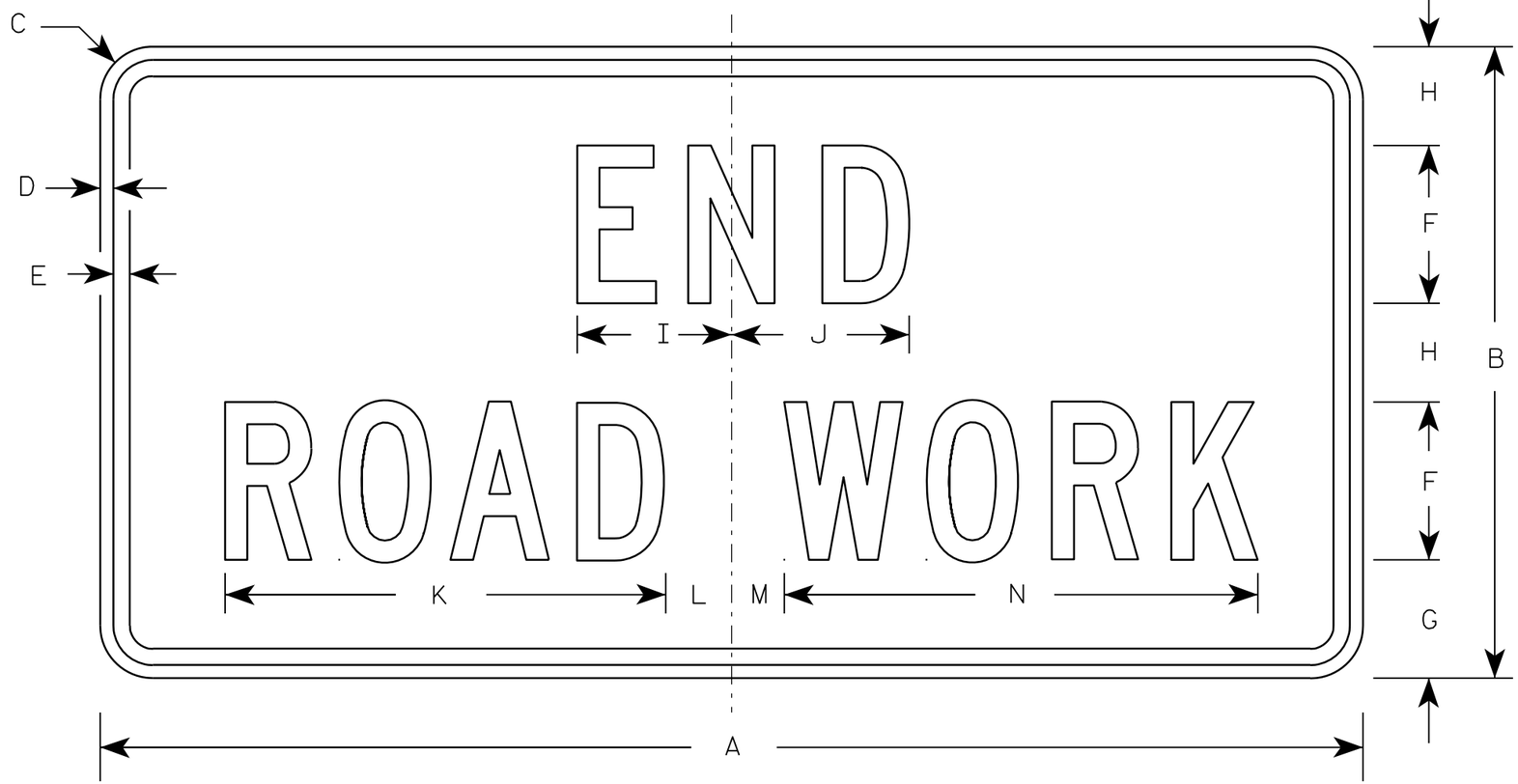
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/12/07 PLATE NO. A5-10.1

PROJECT NO:

SHEET NO: 176 E



G20-2A

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

Metric equivalent for this sign is:

SIZE	
1	900 mm X 450 mm
2	1200 mm X 600 mm
3	1200 mm X 600 mm
4	1200 mm X 600 mm
5	1200 mm X 600 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1	36	18	1 1/8	3/8	1/2	4	3 3/4	2 1/2	4 1/8	4 1/8	11 1/8	2	1	12 1/8													4.5	0.41
2	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
3	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
4	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
5	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72

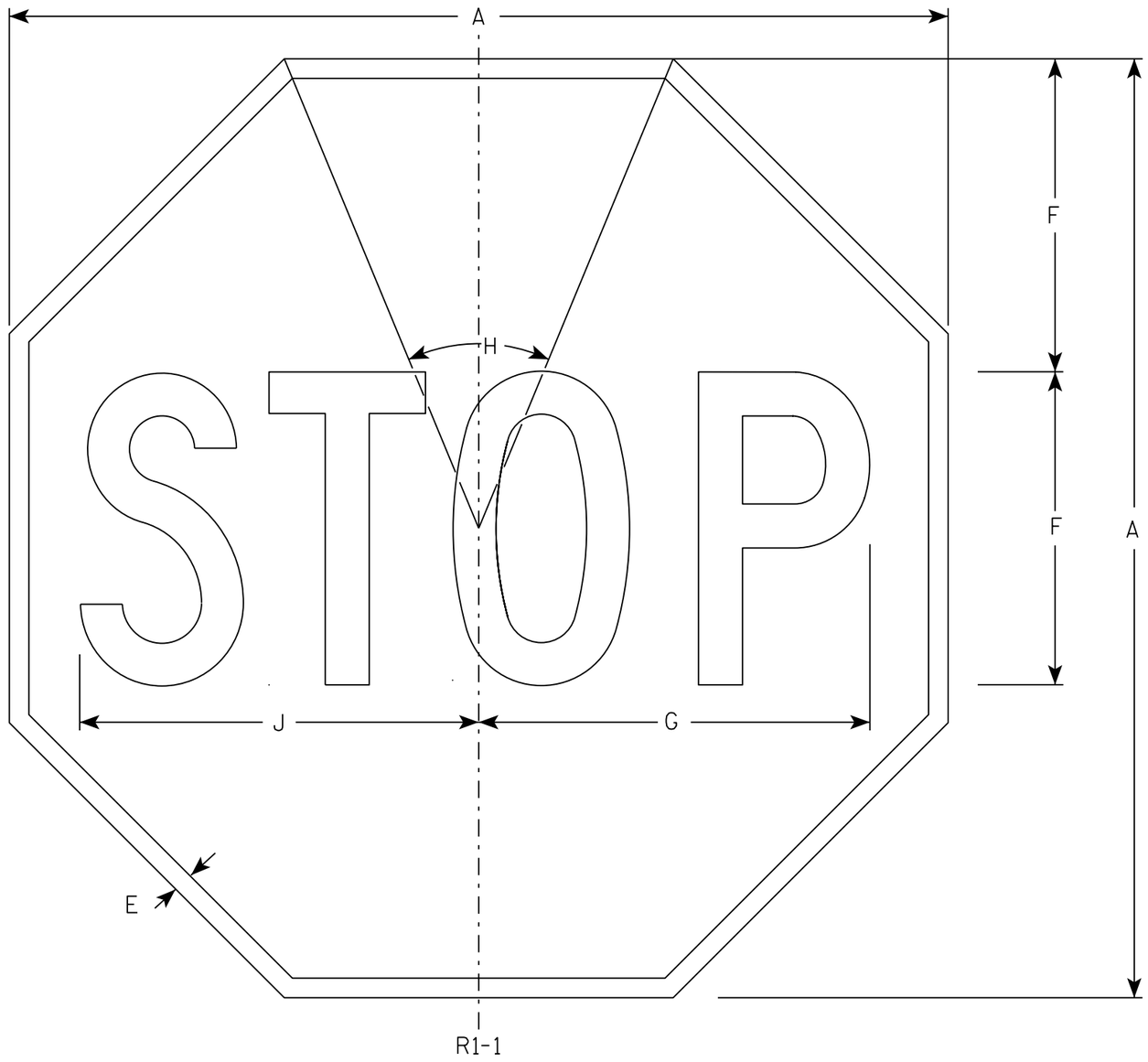
STANDARD SIGN
G20-2A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/30/09 PLATE NO. G20-2A.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 177	E



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - C

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2S	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2M	36				3/4	12	15	45°		15 3/8																	7.46
3	36				3/4	12	15	45°		15 3/8																	7.46
4	48				1	16	20	45°		20 1/2																	13.25
5	48				1	16	20	45°		20 1/2																	13.25
6	18				3/8	6	7 3/4	45°		7 3/4																	1.86
7	12				1/4	4	5	45°		5 1/8																	0.78

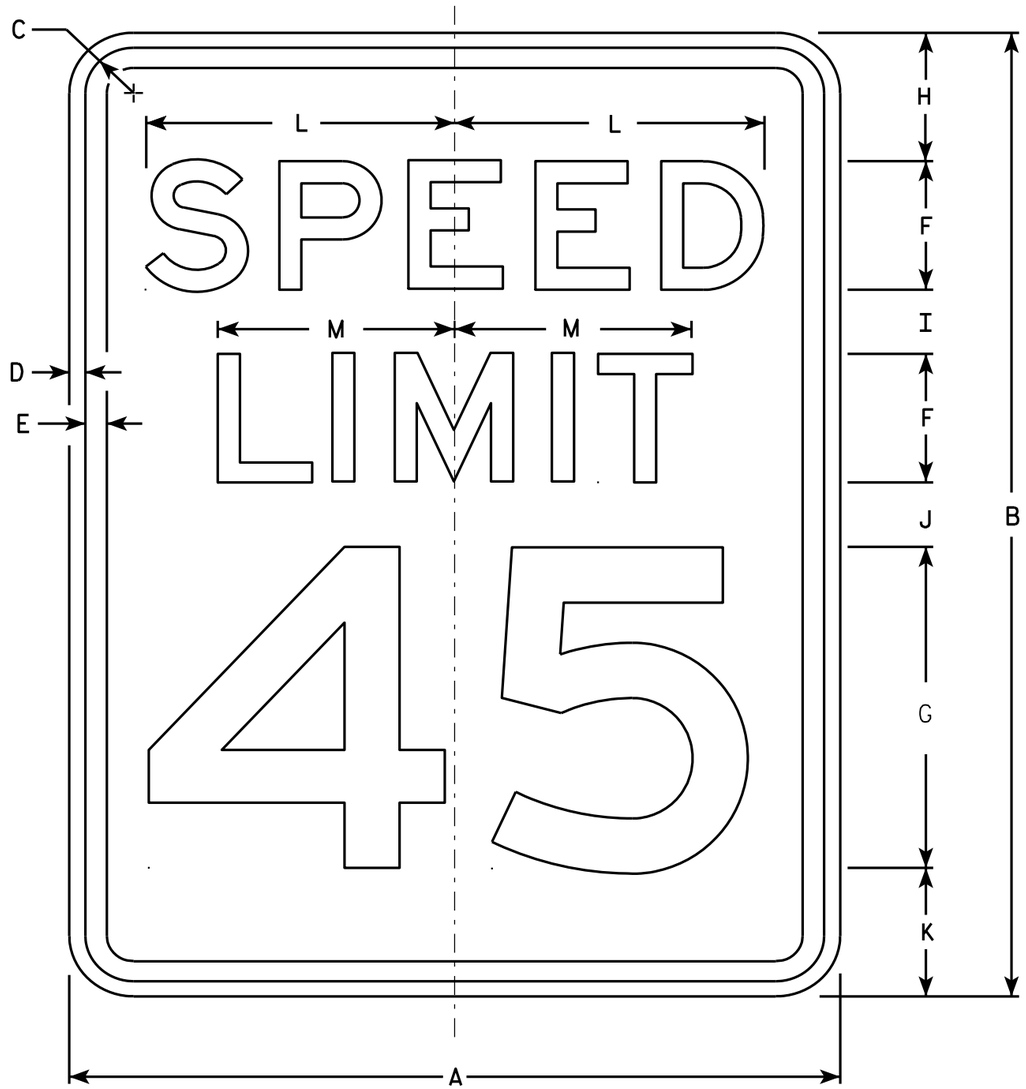
STANDARD SIGN
R1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/12/15 PLATE NO. R1-1.13

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 178	E



R2-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0
2S	24	30	1 1/8	3/8	1/2	4	10	3	2 1/4	3 3/8	3 3/8	9 5/8	7 3/8														5.0
2M	30	36	1 3/8	1/2	5/8	5	12	5	2 1/2	2 1/2	4	12	9 1/4														7.5
3	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
4	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
5	48	60	2 1/4	3/4	1	8	20	6	4 1/2	6 3/4	6 3/4	19 1/4	14 5/8														20.0

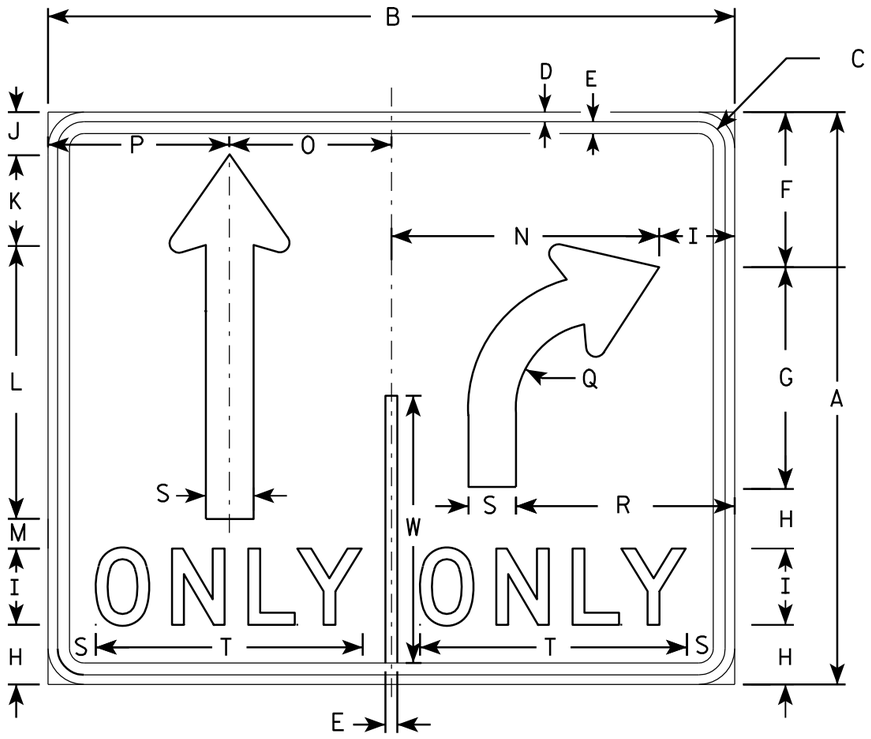
STANDARD SIGN
R2-1

WISCONSIN DEPT OF TRANSPORTATION

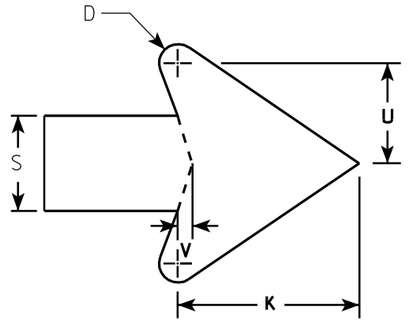
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/26/10 PLATE NO. R2-1.13

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 179	E



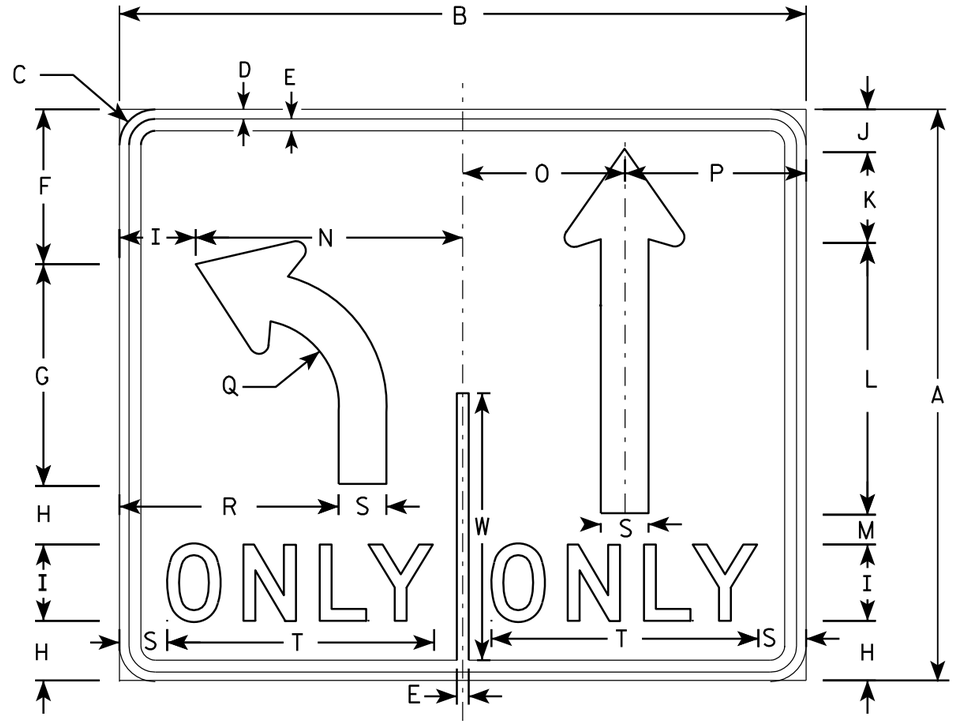
R3-8D



ARROW DETAIL

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - WHITE
   Message - BLACK
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



R3-8E

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	36	1 3/8	1/2	5/8	8 1/8	11 5/8	3 1/8	4	2 1/4	4 3/4	14 1/4	1 5/8	14	8 1/2	9 1/2	4 1/2	11 1/2	2 1/2	14	2 5/8	3/8	14				7.5
2M	30	36	1 3/8	1/2	5/8	8 1/8	11 5/8	3 1/8	4	2 1/4	4 3/4	14 1/4	1 5/8	14	8 1/2	9 1/2	4 1/2	11 1/2	2 1/2	14	2 5/8	3/8	14				7.5
3																											
4	48	54	2 1/4	3/4	1	13 1/4	18 1/2	5 1/8	6	3 1/2	7 1/8	21 1/2	4 3/4	21	12 3/4	14 1/4	7 1/4	17 1/8	3 3/4	20 5/8	4	5/8	22 3/8				18.0
5	48	54	2 1/4	3/4	1	13 1/4	18 1/2	5 1/8	6	3 1/2	7 1/8	21 1/2	4 3/4	21	12 3/4	14 1/4	7 1/4	17 1/8	3 3/4	20 5/8	4	5/8	22 3/8				18.0

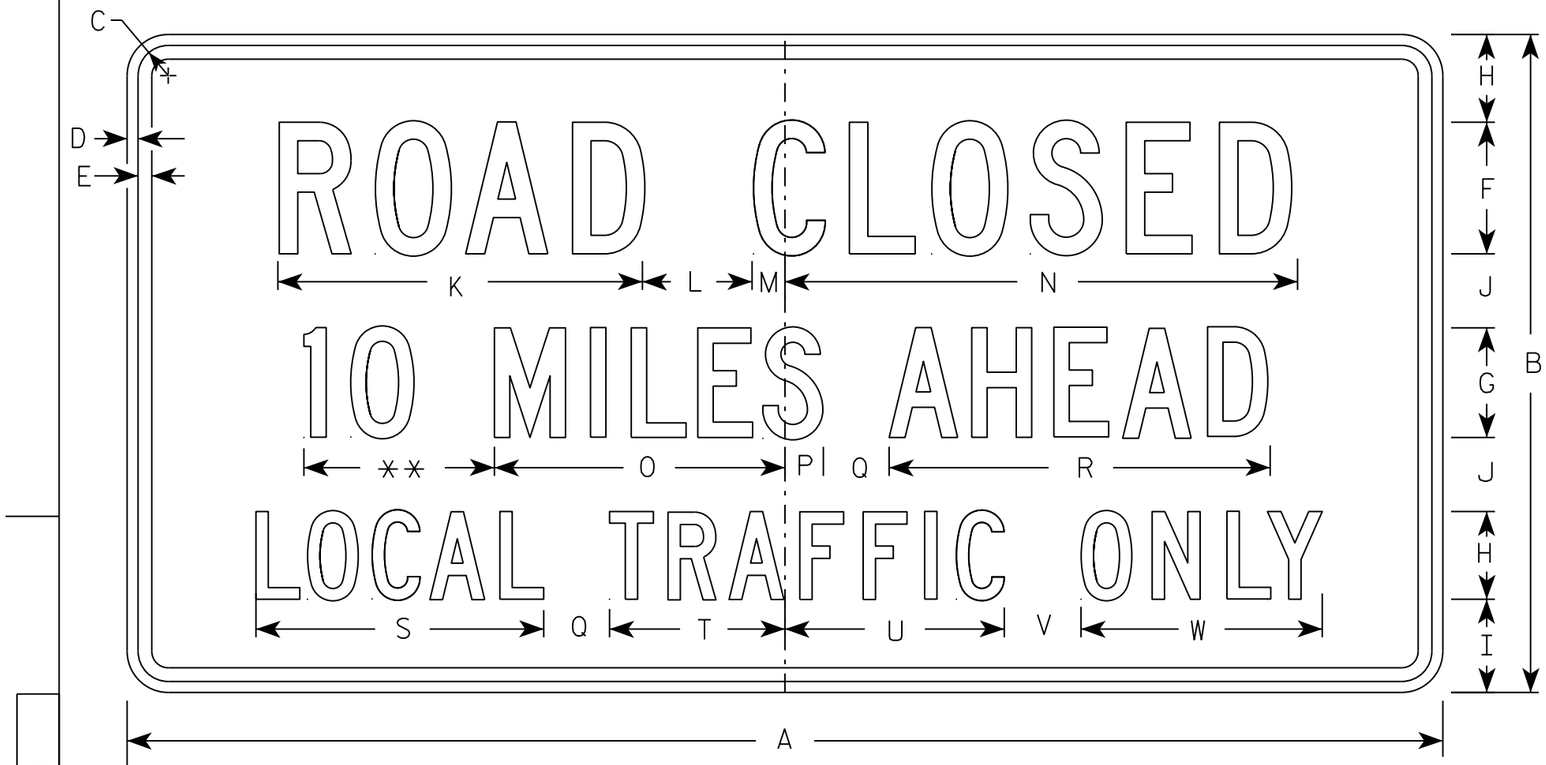
STANDARD SIGN
R3-8D & R3-8E

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

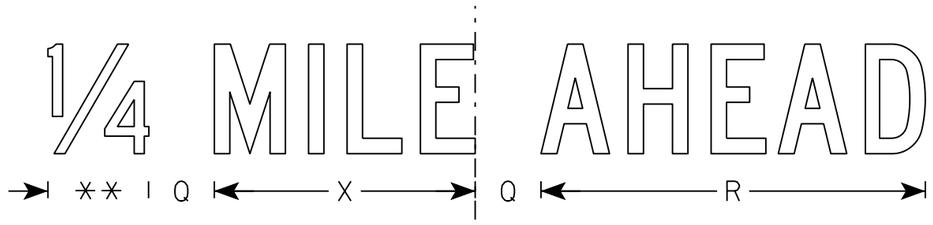
DATE 3/18/2011 PLATE NO. R3-8D.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 180	E



R11-3

** See Note 5



NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals to nearest quarter mile and optically adjust spacing to achieve proper balance.

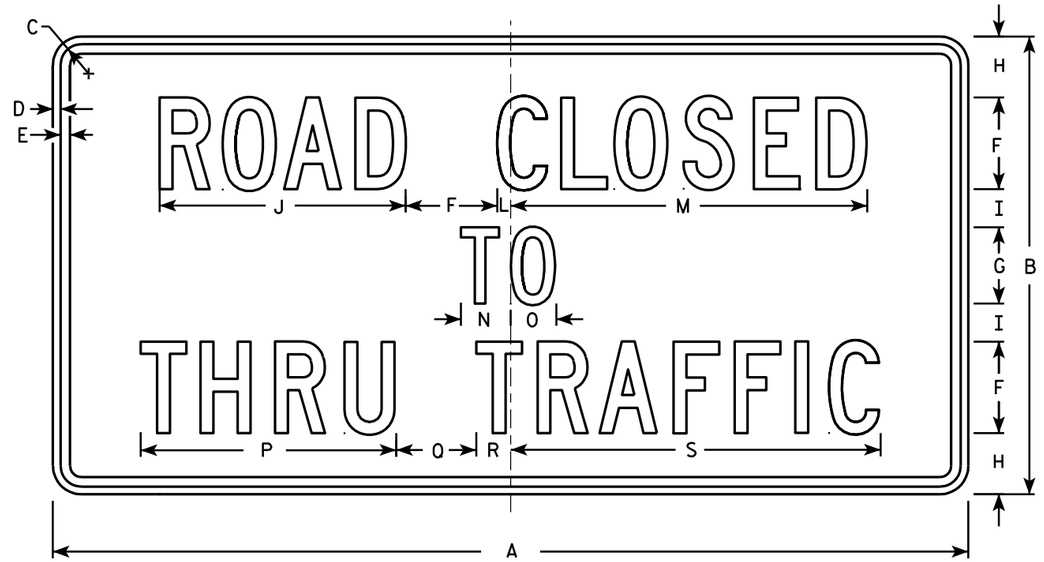
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	18	1 3/8	1/2	5/8	4	3	2 1/2	2	2	11 1/8	3	1 1/8	15 1/4	8	1 1/2	2	10 3/4	8 3/8	4 3/4	6 1/2	2	6 3/4	7 1/8			4.5
2S	60	30	1 3/8	1/2	5/8	6	5	4	4 1/4	3 3/8	16 5/8	5	1 1/2	23	13 1/4	1 3/4	3	17 3/8	13 1/8	8	10	3 1/2	11	11 7/8			12.5
2M	60	30	1 3/8	1/2	5/8	6	5	4	4 1/4	3 3/8	16 5/8	5	1 1/2	23	13 1/4	1 3/4	3	17 3/8	13 1/8	8	10	3 1/2	11	11 7/8			12.5
3																											
4																											
5																											

STANDARD SIGN
R11-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer
DATE 3/15/17 PLATE NO. R11-3.8

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 181 | E



R11-4

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	60	30	1 3/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
2M	60	30	1 3/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
3																											
4																											
5																											

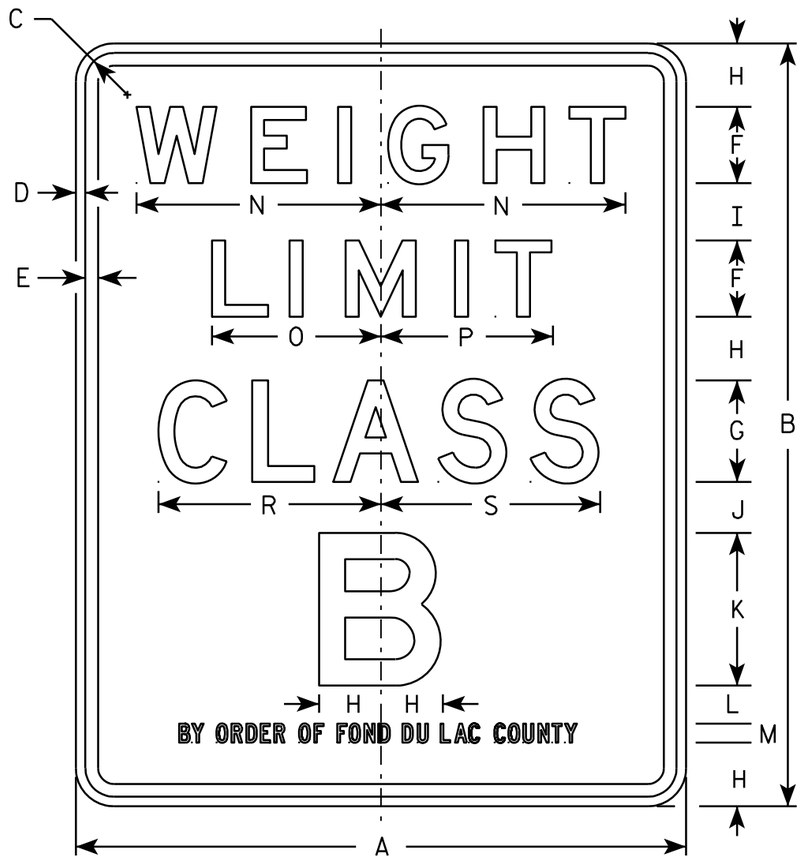
STANDARD SIGN
R11 - 4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 4/1/11 PLATE NO. R11-4.3

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 182 | E



R12-53

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - See Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1, 2 & 4 are Series E.
   Line 3 is Series D.
   Line 5 is Series C.
6. Line 5 of the sign shall vary with the name of the maintaining authority.

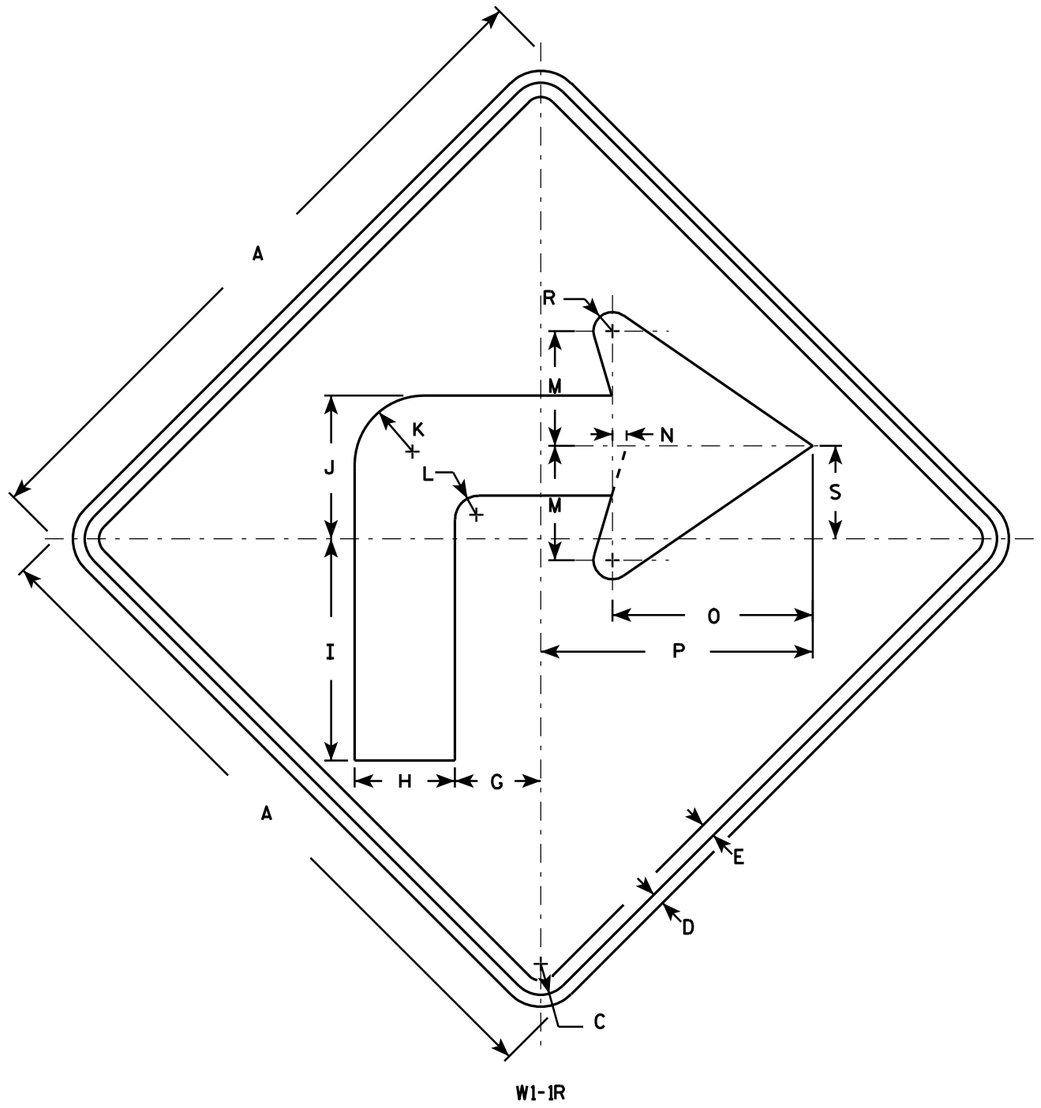
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	30	1 1/8	3/8	1/2	3	4	2 1/2	2 1/4	2	6	1 1/2	3/4	9 5/8	6 5/8	6 3/4		8 3/4	8 5/8								5.0
2M	24	30	1 1/8	3/8	1/2	3	4	2 1/2	2 1/4	2	6	1 1/2	3/4	9 5/8	6 5/8	6 3/4		8 3/4	8 5/8								5.0
3																											
4																											
5																											

STANDARD SIGN
R12-53

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer
DATE 4/1/11 PLATE NO. R12-53.3

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 183 | E



W1-1R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W1-1L is the same as W1-1R except the arrow is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2		3	3 1/2	7 3/4	5	2 1/2	7/8	4	1/2	7	9 1/2		5/8	3 1/4								4.0
2S	36		1 5/8	5/8	3/4		4 1/2	5 1/4	11 5/8	7 1/2	3 5/8	1 1/4	6	3/4	10 1/2	14 1/4		1	4 7/8								9.0
2M	36		1 5/8	5/8	3/4		4 1/2	5 1/4	11 5/8	7 1/2	3 5/8	1 1/4	6	3/4	10 1/2	14 1/4		1	4 7/8								9.0
3	36		1 5/8	5/8	3/4		4 1/2	5 1/4	11 5/8	7 1/2	3 5/8	1 1/4	6	3/4	10 1/2	14 1/4		1	4 7/8								9.0
4	48		2 1/4	3/4	1		6	7	15 1/2	10	4 7/8	1 5/8	8	1	14	19		1 1/4	6 1/2								16.0
5	48		2 1/4	3/4	1		6	7	15 1/2	10	4 7/8	1 5/8	8	1	14	19		1 1/4	6 1/2								16.0

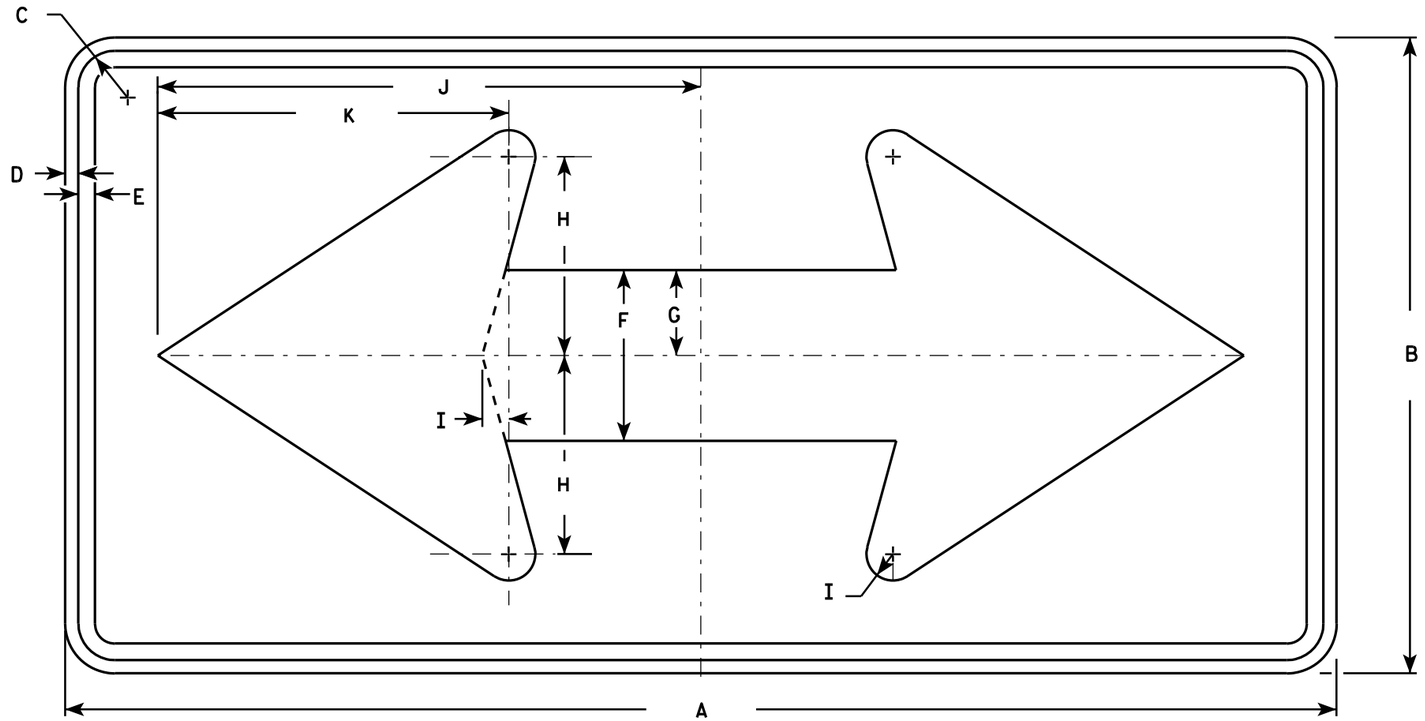
STANDARD SIGN
W1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/15/12 PLATE NO. W1-1.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 184 | E



W1-7

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	18	1 1/8	3/8	1/2	5	2 1/2	5 3/4	3/4	15 5/8	10 1/8																4.5
2S	48	24	1 3/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
2M	48	24	1 3/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
3	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5
4	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5
5	96	48	2 1/4	3/4	1	13	6 1/2	15	2	41	26 1/2																32.0

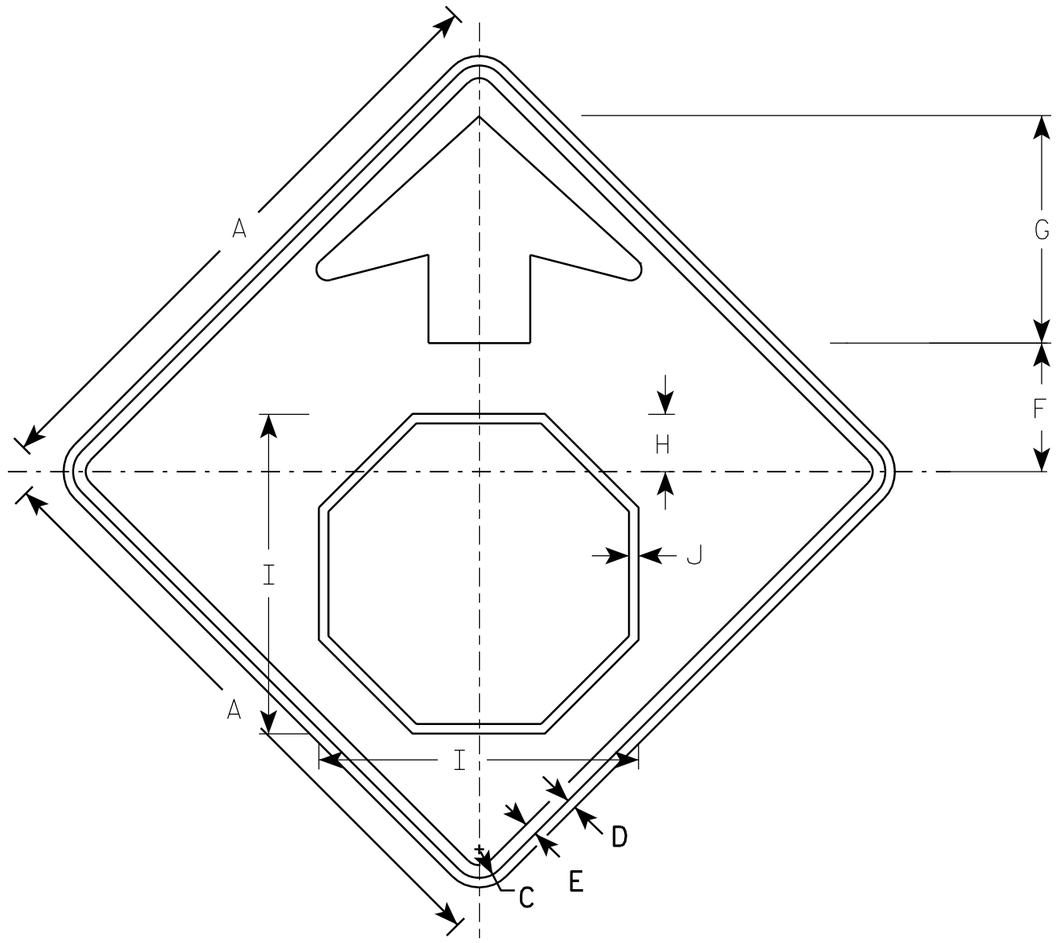
STANDARD SIGN
W1-7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W1-7.7

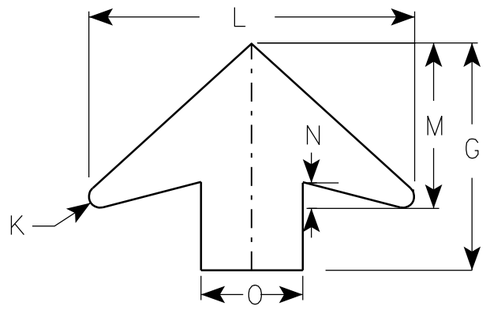
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 185 | E



W3-1

NOTES

1. All Signs Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - YELLOW
   Arrow & Border - BLACK
   Stop Symbol - WHITE BORDER ON RED BACKGROUND



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	6 1/4	11 1/4	2 7/8	15 3/4	1/2	1/2	16	8	1 1/4	5												6.25
2S	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
2M	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
3	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
4	48		2 1/4	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0
5	48		2 1/4	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0

STANDARD SIGN
W3-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W3-1.12

PROJECT NO:

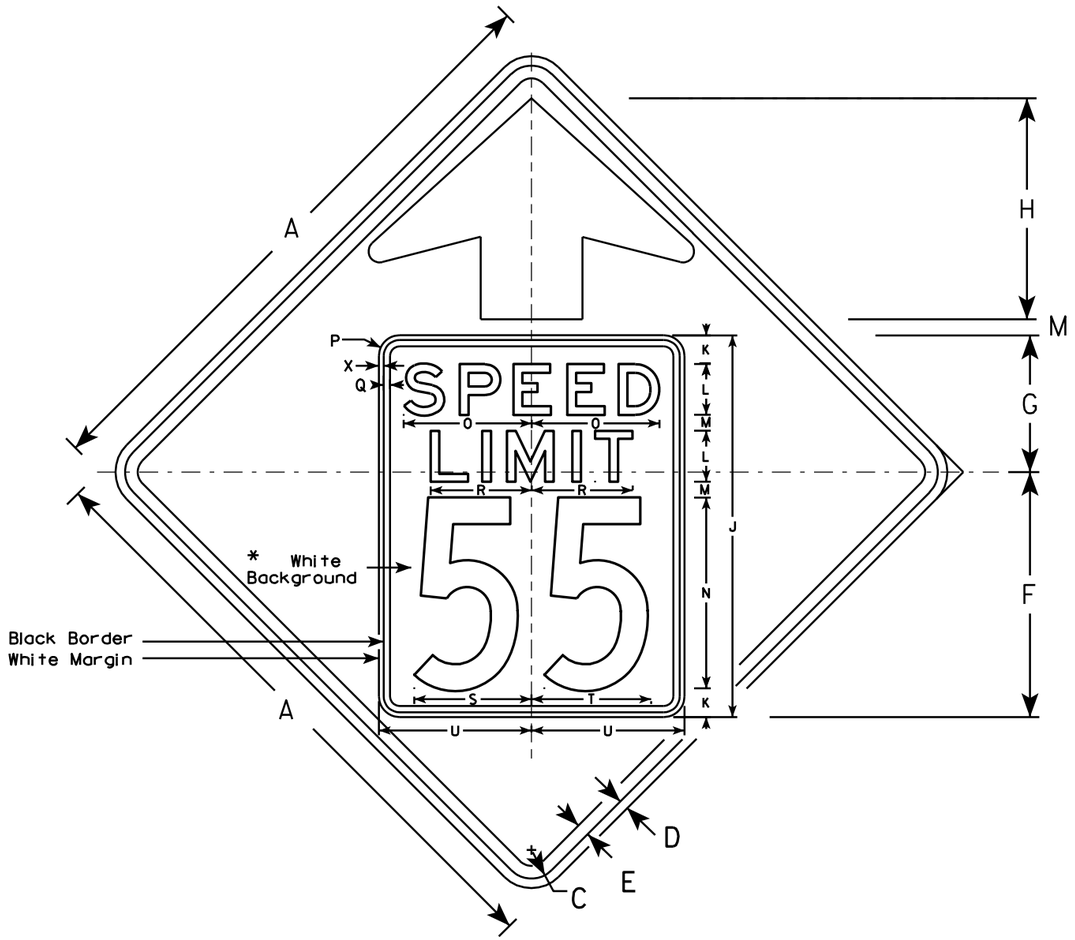
SHEET NO: 186 E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W31.DGN PLOT DATE : 07-JUN-2010 12:59 PLOT BY : ditjph

WISDOT/CADDS SHEET 42

7

7

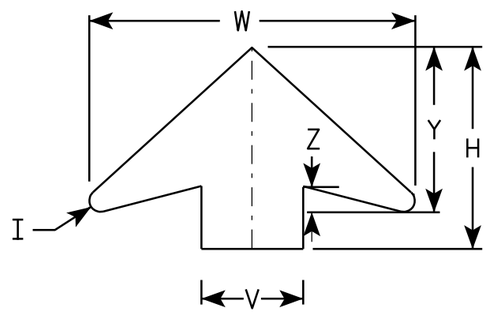


W3-5

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color: *
   Background - YELLOW*
   Message - BLACK
3. Message Series - C for numbers Series E for wording
4. Substitute appropriate numerals and optically adjust spacing to achieve proper balance

*Speed Limit Sign shall have a White Background



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
2M	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
3	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
4	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0
5	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0

STANDARD SIGN
W3-5

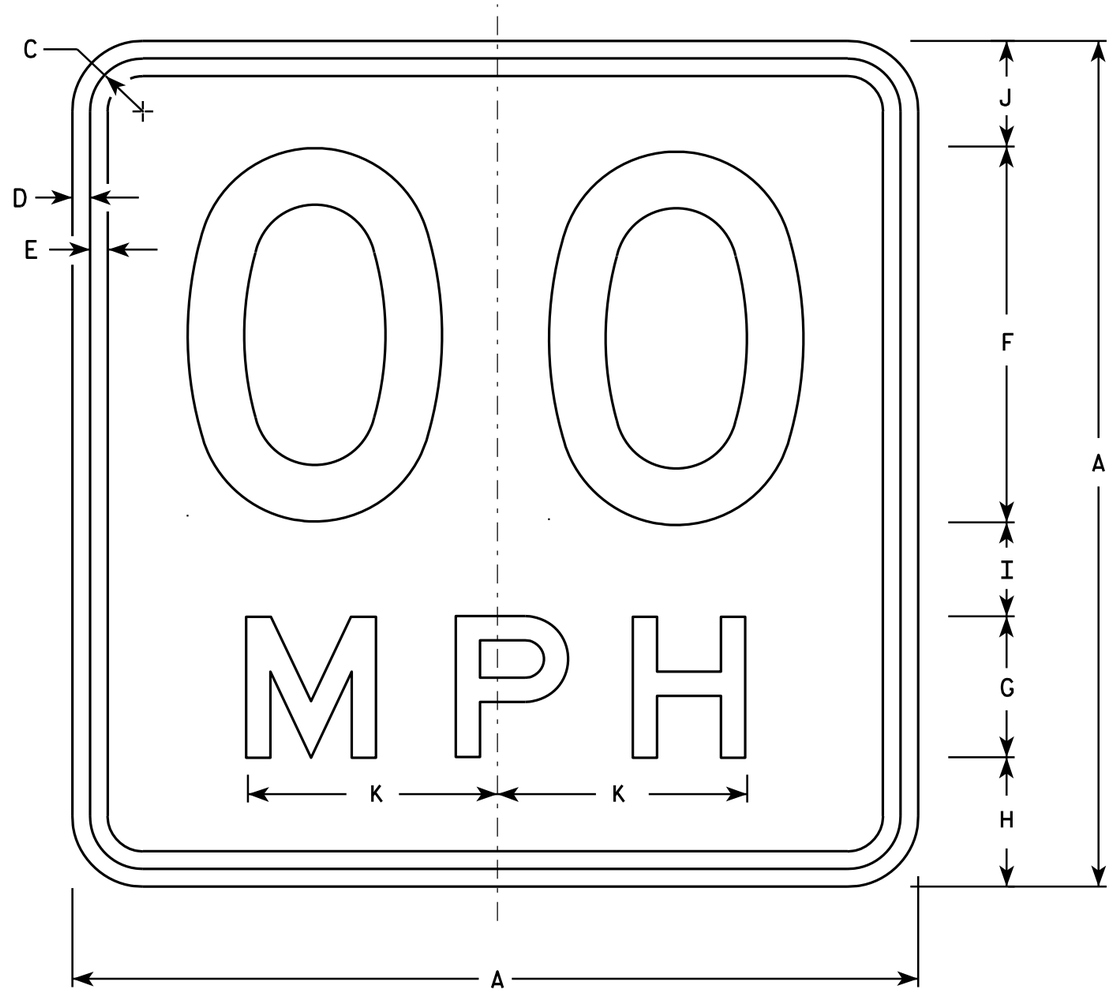
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/29/12 PLATE NO. W3-5.5

PROJECT NO:

SHEET NO: 187 E



W13-1

* For 30" x 30" Warning Signs, use 18" x 18" W13-1 signs.
For 36" x 36" Warning Signs, use 24" x 24" W13-1 signs.

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - See Note 6
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically space about centerline to achieve proper balance.
6. Line 1 is Series D
   Line 2 is Series E

	SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
	1	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
*	2S	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
*	2M	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
	3	24		1 1/8	3/8	1/2	10	4	4	2 3/4	3 1/4	6 5/8																4.00
	4	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
	5	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00

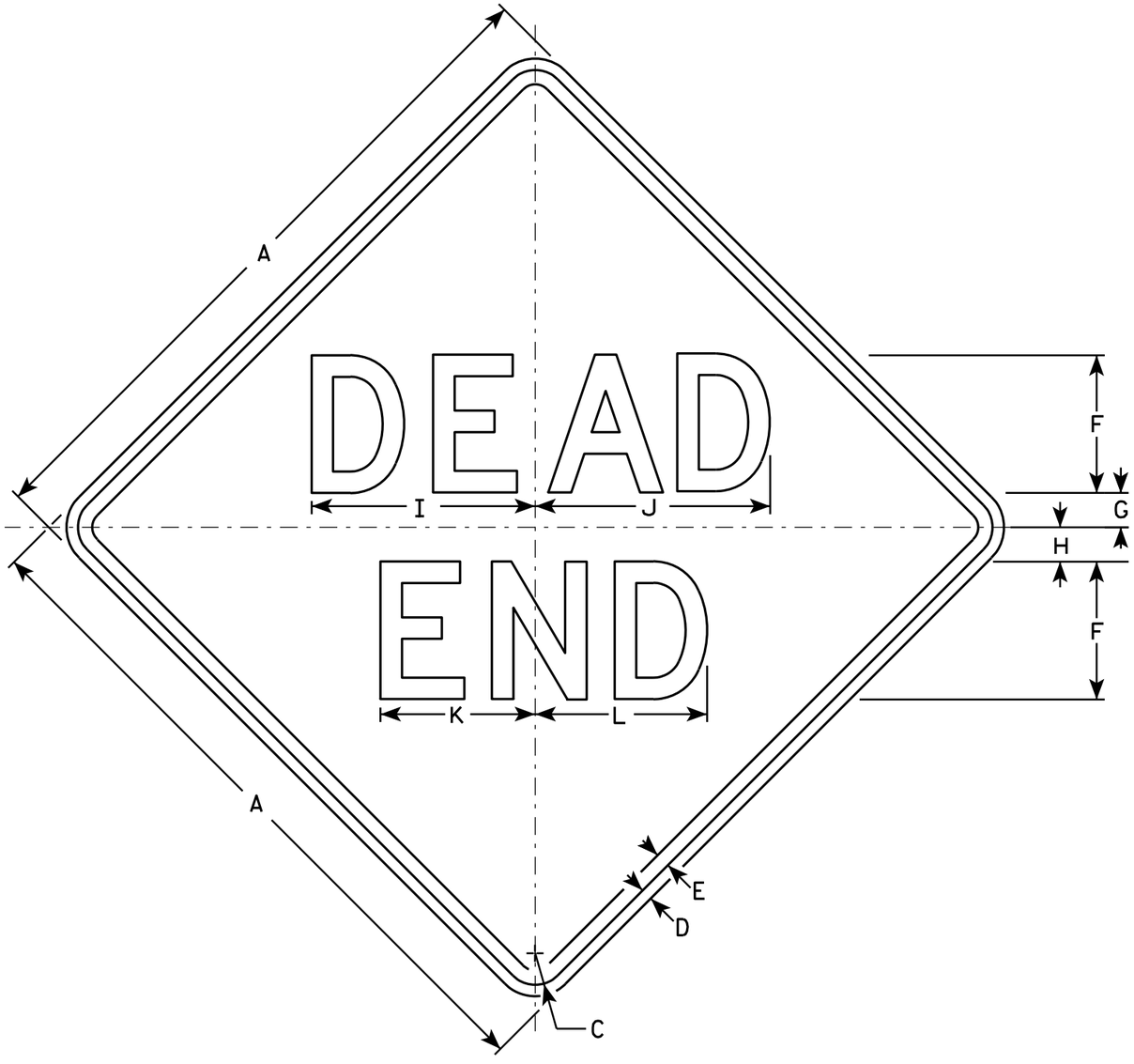
STANDARD SIGN
W13-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 5/31/12 PLATE NO. W13-1.16

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 188 | E



W14-1

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	5	1	2	8 1/4	8 5/8	5 5/8	6 1/4															4.0
2S	30		1 3/8	1/2	5/8	6	1 1/2	2 1/2	9 3/4	10 1/4	6 3/4	7 1/2															6.25
2M	30		1 3/8	1/2	5/8	6	1 1/2	2 1/2	9 3/4	10 1/4	6 3/4	7 1/2															6.25
3	36		1 5/8	5/8	3/4	7	2	3	11 3/8	12	7 7/8	8 3/4															9.0
4																											
5																											

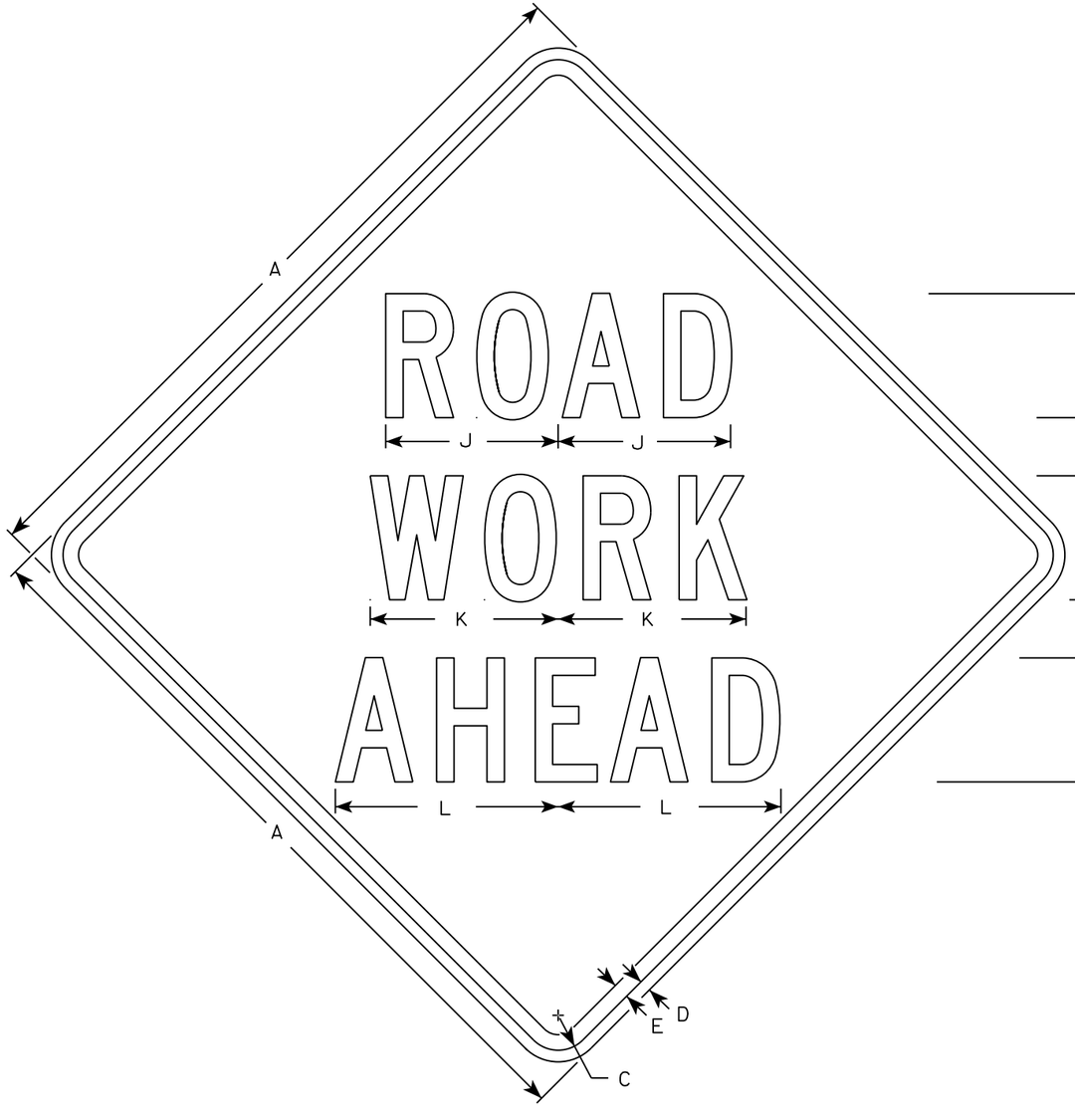
STANDARD SIGN
W14-1

WISCONSIN DEPT OF TRANSPORTATION

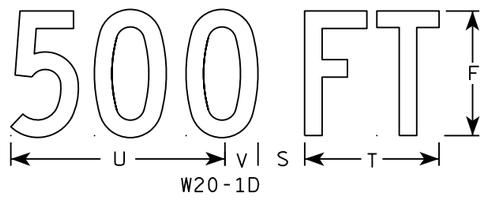
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/13/13 PLATE NO. W14-1.7

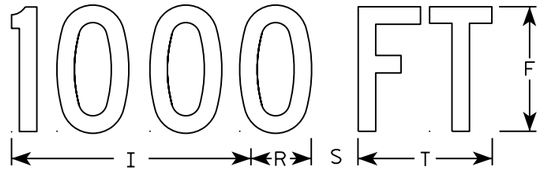
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 189	E



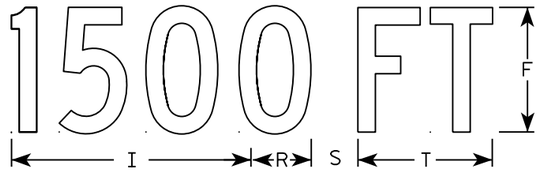
W20-1A



W20-1D

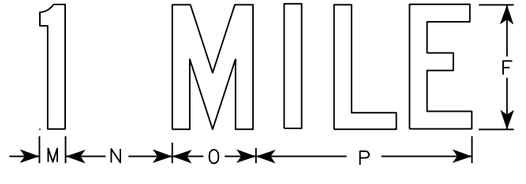


W20-1C

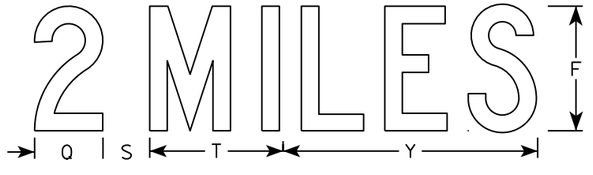


W20-1B

W20-1G



W20-1F



W20-1E

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 3/8	1/2	5/8	5	2 5/8	3 1/4	10 1/8	7	7 5/8	8 7/8	1 1/8	4 1/2	3 1/2	9		2 1/2	2 1/4	5 5/8	9	1 3/8	8	1 3/4	10 3/4	6	9.0
2S	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
2M	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
3	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
4	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
5	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0

STANDARD SIGN
W20-1A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

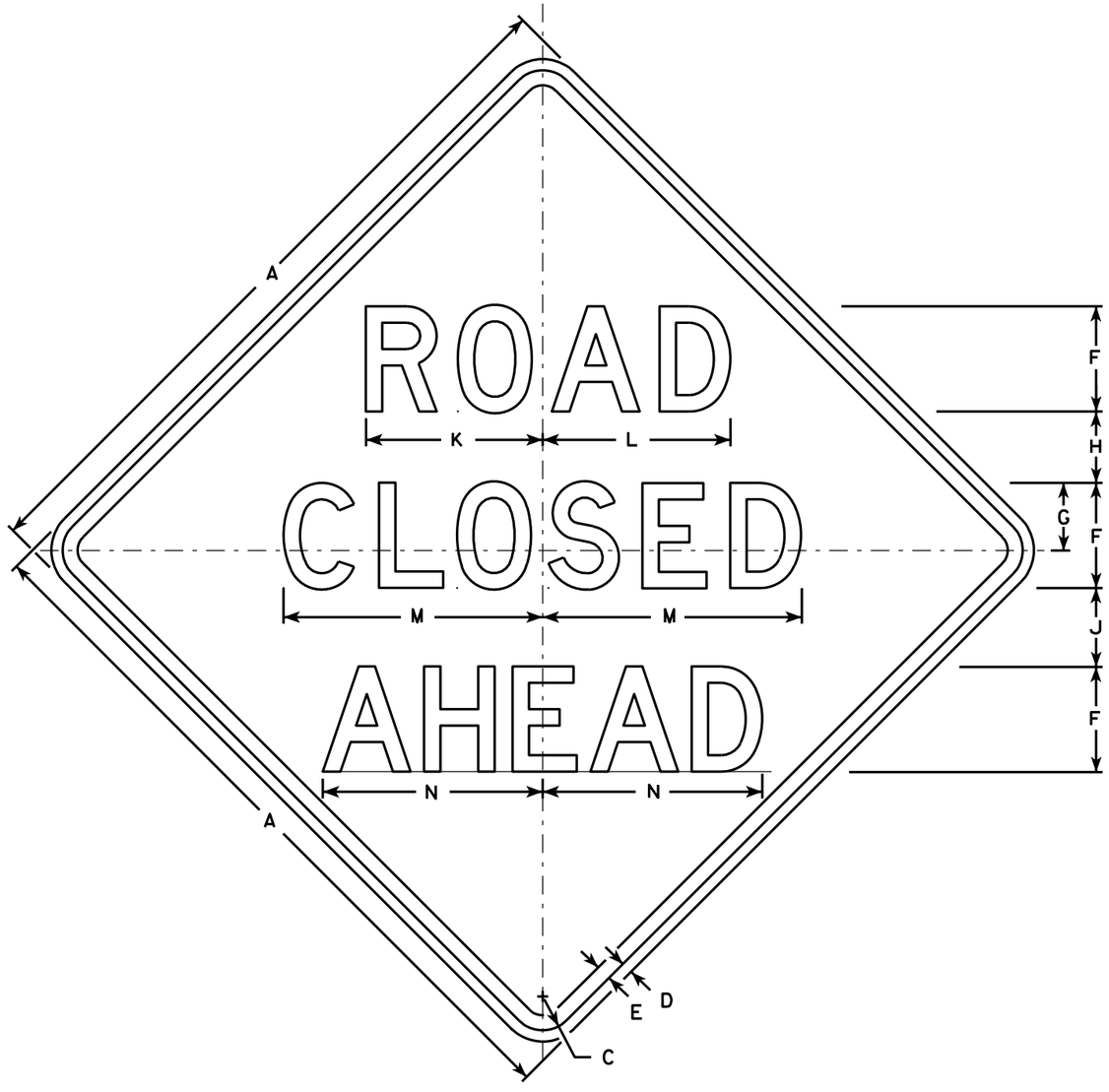
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/07/15 PLATE NO. W20-1.10

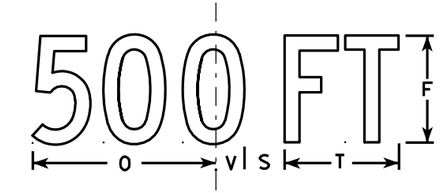
PROJECT NO:

SHEET NO: E

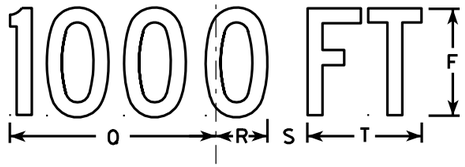
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W201.DGN PLOT DATE : 01-DEC-2015 18:24 PLOT BY : $$ plotuser $$



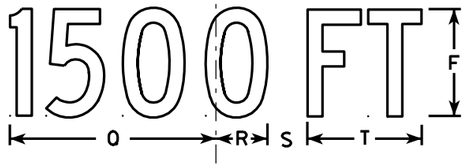
W20-3A



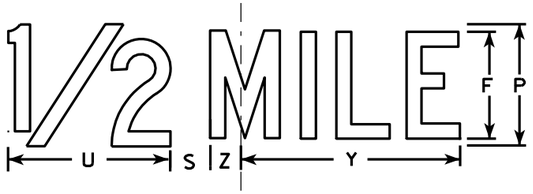
W20-3D



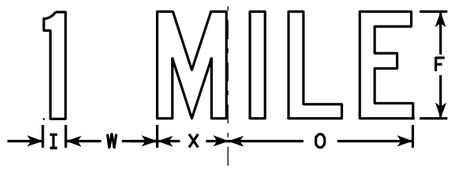
W20-3C



W20-3B



W20-3G



W20-3F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - see note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1 and 2 are Series D.
   Line 3 is Series D for AHEAD and Series C for all other distances.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5	3 3/8	3 1/2	1 1/8	4	8 3/8	8 7/8	12 1/2	11	9	6	10 1/8	2 1/2	1 7/8	5 5/8	8	1 3/8	4 1/2	3 1/2	10 3/4	1 3/4	9.0
2S	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
2M	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
3	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
4	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
5	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0

STANDARD SIGN
W20-3A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer
DATE 3/18/11 PLATE NO. W20-3.7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 191 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W203.DGN PLOT DATE : 18-MAR-2011 12:08 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 9.931739:1.000000

WISDOT/CADDS SHEET 42

7

7

		WEST FRONTAGE ROAD												
		AREA (SF)				Incremental Vol (CY) (Unadjusted)				Cumulative Vol (CY) (Unadjusted)				Unadjusted
STATION	DIstance	Cut	Salvaged/Unusable Pavement Materlal	FIll	Exlstlng Pavement EBS	Cut	Salvaged/Unusable Pavement Materlal	FIll	Exlstlng Pavement EBS	Cut 1.00	Salvaged/Unusable Pavement Materlal	FIll 1.00	Exlstlng Pavement EBS	Mass Ordlnate
4784+50	0.00	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0
4785+00	50.00	190.5	13.2	0.0	0.0	176	12	0	0	176	12	0	0	164
4785+50	50.00	239.3	13.2	0.0	0.0	398	24	0	0	574	37	0	0	538
4786+00	50.00	246.8	13.2	0.0	0.0	450	24	0	0	1,024	61	0	0	964
4786+50	50.00	273.3	13.2	0.0	0.0	482	24	0	0	1,506	85	0	0	1,421
4787+00	50.00	202.9	13.2	0.0	0.0	441	24	0	0	1,947	110	0	0	1,837
4787+50	50.00	221.2	13.2	0.0	0.0	393	24	0	0	2,340	134	0	0	2,206
4788+00	50.00	220.1	13.2	0.0	0.0	409	24	0	0	2,748	158	0	0	2,590
4788+50	50.00	160.6	13.2	4.8	0.0	353	24	4	0	3,101	183	4	0	2,913
4789+00	50.00	144.9	13.2	3.7	0.0	283	24	8	0	3,384	207	12	0	3,164
4789+50	50.00	123.4	13.2	0.5	0.0	248	24	4	0	3,632	232	16	0	3,384
4790+00	50.00	104.2	13.2	2.6	0.0	211	24	3	0	3,843	256	19	0	3,568
4790+50	50.00	65.5	13.2	7.8	5.0	157	24	10	5	4,000	280	29	5	3,691
4791+00	50.00	63.6	13.2	12.2	10.0	120	24	19	14	4,119	305	47	19	3,768
4791+50	50.00	17.0	13.2	31.9	15.0	75	24	41	23	4,194	329	88	42	3,777
4792+00	50.00	12.3	13.2	108.7	20.0	27	24	130	32	4,221	353	218	74	3,650
4792+50	50.00	21.6	13.2	187.3	25.0	31	24	274	42	4,253	378	492	116	3,382
4793+00	50.00	45.8	13.2	256.1	30.0	62	24	411	51	4,315	402	903	167	3,010
4793+50	50.00	103.4	13.2	302.8	30.0	138	24	518	56	4,453	427	1,420	222	2,606
4794+00	50.00	48.3	13.2	240.3	30.0	140	24	503	56	4,594	451	1,923	278	2,219
4794+50	50.00	27.1	13.2	214.7	27.9	70	24	421	54	4,663	475	2,345	331	1,844
4795+00	50.00	0.0	13.2	96.1	25.7	25	24	288	50	4,689	500	2,632	381	1,556
4795+50	50.00	2.4	13.2	17.5	23.6	2	24	105	46	4,691	524	2,738	427	1,429
4796+00	50.00	23.4	13.2	17.8	21.4	24	24	33	42	4,715	548	2,770	468	1,396
4796+50	50.00	92.2	13.2	4.0	19.3	107	24	20	38	4,822	573	2,790	506	1,458
4797+00	50.00	134.1	13.2	0.1	17.1	210	24	4	34	5,031	597	2,794	540	1,640
4797+50	50.00	154.0	13.2	0.0	15.0	267	24	0	30	5,298	622	2,794	569	1,882
4798+00	50.00	174.2	13.2	1.7	15.0	304	24	2	28	5,602	646	2,796	597	2,160
4798+50	50.00	146.4	13.2	3.3	15.0	297	24	5	28	5,899	670	2,800	625	2,428
4799+00	50.00	129.6	13.2	2.4	15.0	256	24	5	28	6,154	695	2,806	653	2,654
4799+50	50.00	104.1	13.2	7.7	15.0	216	24	9	28	6,371	719	2,815	681	2,836
4800+00	50.00	96.5	13.2	12.4	15.0	186	24	19	28	6,556	743	2,834	708	2,979
4800+50	50.00	90.4	13.2	17.2	15.0	173	24	27	28	6,729	768	2,861	736	3,100
4801+00	50.00	92.6	13.2	17.7	15.0	169	24	32	28	6,899	792	2,893	764	3,213
4801+50	50.00	80.4	13.2	12.1	15.0	160	24	28	28	7,059	817	2,921	792	3,321
4802+00	50.00	89.0	13.2	9.0	15.0	157	24	20	28	7,216	841	2,941	819	3,434
4802+50	50.00	90.5	13.2	8.6	15.0	166	24	16	28	7,382	865	2,957	847	3,560
4803+00	50.00	81.8	13.2	7.9	15.0	160	24	15	28	7,542	890	2,972	875	3,680
4803+50	50.00	78.4	13.2	9.1	15.0	148	24	16	28	7,690	914	2,988	903	3,788
4804+00	50.00	71.0	13.2	0.0	15.0	138	24	8	28	7,828	938	2,996	931	3,894
4804+50	50.00	103.1	13.2	13.9	15.0	161	24	13	28	7,990	963	3,009	958	4,017
4805+00	50.00	64.3	13.2	26.7	15.0	155	24	38	28	8,145	987	3,047	986	4,111
4805+50	50.00	70.3	13.2	46.3	15.0	125	24	68	28	8,269	1,012	3,114	1,014	4,143
4806+00	50.00	67.9	13.2	8.4	15.0	128	24	51	28	8,397	1,036	3,165	1,042	4,196
4806+50	50.00	46.7	13.2	46.2	15.0	106	24	51	28	8,503	1,060	3,216	1,069	4,227
4807+00	50.00	46.9	13.2	18.2	15.0	87	24	60	28	8,590	1,085	3,275	1,097	4,230
4807+50	50.00	40.5	13.2	17.7	15.0	81	24	33	28	8,671	1,109	3,308	1,125	4,253
4808+00	50.00	39.7	13.2	18.7	15.0	74	24	34	28	8,745	1,134	3,342	1,153	4,269
4808+50	50.00	39.1	13.2	17.4	15.0	73	24	33	28	8,818	1,158	3,376	1,181	4,285
4809+00	50.00	42.0	13.2	16.8	15.0	75	24	32	28	8,893	1,182	3,407	1,208	4,304
4809+50	50.00	45.4	13.2	14.9	15.0	81	24	29	28	8,974	1,207	3,437	1,236	4,331
4810+00	50.00	45.9	13.2	19.3	15.0	85	24	32	28	9,059	1,231	3,468	1,264	4,359
4810+50	50.00	56.4	13.2	13.4	15.0	95	24	30	28	9,153	1,255	3,499	1,292	4,399
4811+00	50.00	59.7	13.2	15.4	15.0	108	24	27	28	9,261	1,280	3,525	1,319	4,456
4811+50	50.00	61.6	13.2	12.1	15.0	112	24	25	28	9,373	1,304	3,551	1,347	4,518
4812+00	50.00	53.9	13.2	15.3	15.0	107	24	25	28	9,480	1,329	3,576	1,375	4,576
4812+50	50.00	44.4	13.2	52.7	15.0	91	24	63	28	9,571	1,353	3,639	1,403	4,579
4813+00	50.00	35.0	13.2	26.9	15.0	74	24	74	28	9,645	1,377	3,713	1,431	4,555
4813+50	50.00	34.6	13.2	41.2	15.0	64	24	63	28	9,709	1,402	3,776	1,458	4,532
4814+00	50.00	82.4	13.2	25.3	15.0	108	24	62	28	9,817	1,426	3,837	1,486	4,554
4814+50	50.00	81.5	13.2	26.5	15.0	152	24	48	28	9,969	1,450	3,885	1,514	4,633
4815+00	50.00	88.4	13.2	26.0	15.0	157	24	49	28	10,126	1,475	3,934	1,542	4,718

(CONTINUED ON NEXT SHEET)

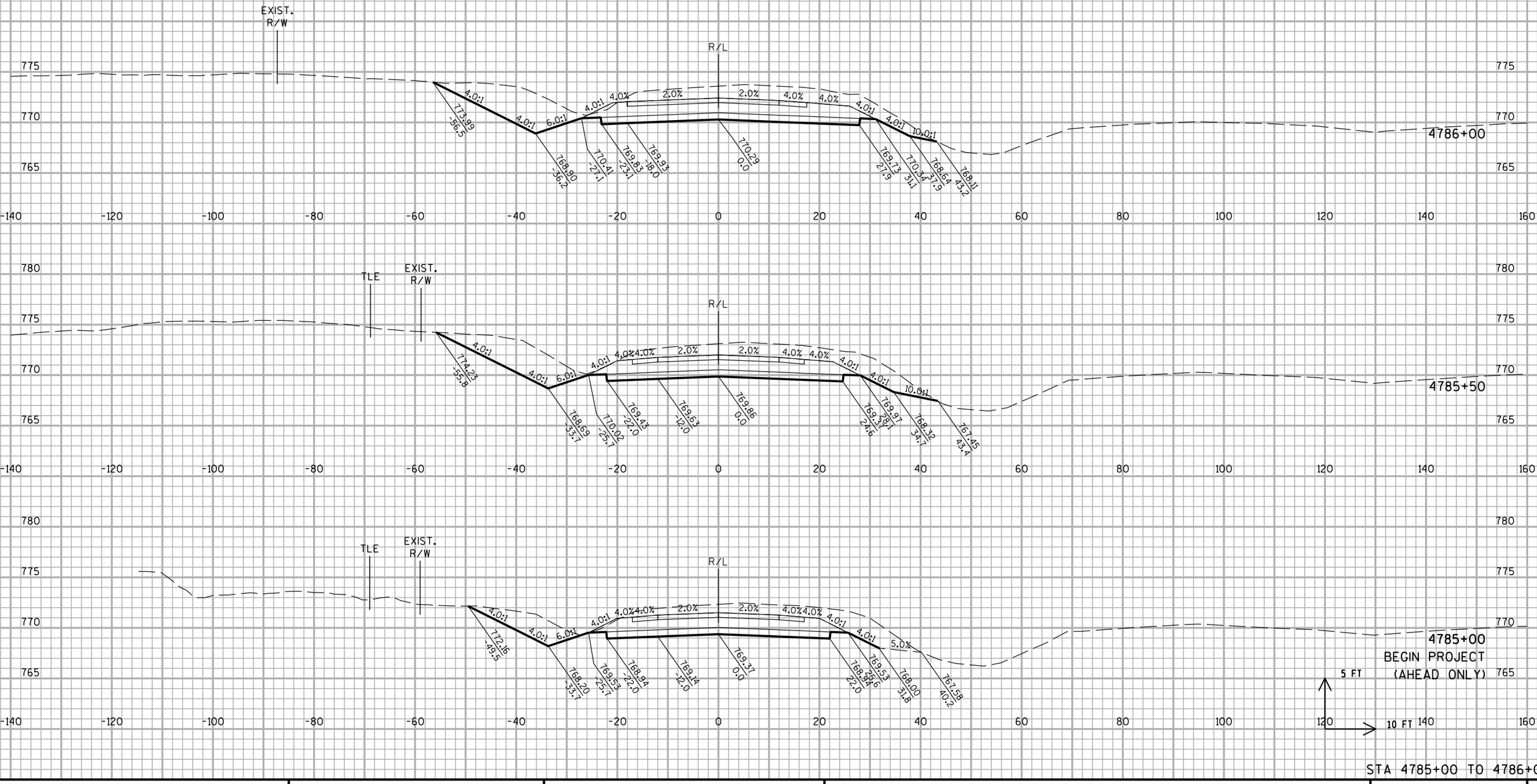
(CONTINUED)

		WEST FRONTAGE ROAD												
		AREA (SF)				Incremental Vol (CY) (Unadjusted)				Cumulative Vol (CY) (Unadjusted)				Unadjusted
		Cut	Salvaged/Unusable	Fill		Cut	Salvaged/Unusable	Fill		Cut	Salvaged/Unusable	Fill		Mass
STATION	Distance		Pavement Material		Existing Pavement EBS		Pavement Material		Existing Pavement EBS	1.00	Pavement Material	1.00	Existing Pavement EBS	Ordinate
4815+50	50.00	96.9	13.2	21.0	15.0	172	24	44	28	10,298	1,499	3,977	1,569	4,821
4816+00	50.00	101.2	13.2	17.8	15.0	183	24	36	28	10,481	1,524	4,013	1,597	4,945
4816+50	50.00	53.2	13.2	65.5	15.0	143	24	77	28	10,624	1,548	4,090	1,625	4,986
4817+00	50.00	62.9	13.2	23.6	15.0	108	24	83	28	10,732	1,572	4,173	1,653	4,987
4817+50	50.00	71.7	13.2	10.2	15.0	125	24	31	28	10,857	1,597	4,204	1,681	5,056
4818+00	50.00	75.2	13.2	12.7	0.0	136	24	21	14	10,993	1,621	4,225	1,694	5,146
4818+50	50.00	80.2	13.2	11.4	0.0	144	24	22	0	11,136	1,645	4,248	1,694	5,243
4819+00	50.00	79.5	13.2	14.8	0.0	148	24	24	0	11,284	1,670	4,272	1,694	5,343
4819+50	50.00	84.4	13.2	19.9	0.0	152	24	32	0	11,436	1,694	4,304	1,694	5,438
4820+00	50.00	95.0	13.2	50.0	0.0	166	24	65	0	11,602	1,719	4,369	1,694	5,515
4820+50	50.00	104.9	13.2	39.9	0.0	185	24	83	0	11,787	1,743	4,452	1,694	5,592
4821+00	50.00	112.3	13.2	24.3	0.0	201	24	59	0	11,988	1,767	4,512	1,694	5,710
4821+50	50.00	97.4	13.2	15.1	0.0	194	24	36	0	12,183	1,792	4,548	1,694	5,843
4822+00	50.00	102.1	13.2	27.6	3.3	185	24	40	3	12,367	1,816	4,588	1,698	5,964
4822+50	50.00	83.4	13.2	0.6	6.7	172	24	26	9	12,539	1,840	4,614	1,707	6,085
4823+00	50.00	82.4	13.2	0.2	10.0	154	24	1	15	12,693	1,865	4,614	1,722	6,213
4823+50	50.00	83.7	13.2	0.1	6.7	154	24	0	15	12,846	1,889	4,615	1,738	6,342
4824+00	50.00	84.1	13.2	29.7	3.3	155	24	28	9	13,002	1,914	4,642	1,747	6,446
4824+50	50.00	93.7	13.2	28.2	0.0	165	24	54	3	13,166	1,938	4,696	1,750	6,533
4825+00	50.00	88.1	13.2	27.6	0.0	168	24	52	0	13,335	1,962	4,748	1,750	6,625
4825+50	50.00	100.4	13.2	18.1	0.0	175	24	42	0	13,509	1,987	4,790	1,750	6,733
4826+00	50.00	98.7	13.2	17.8	0.0	184	24	33	0	13,694	2,011	4,823	1,750	6,859
4826+50	50.00	101.3	13.2	38.3	0.0	185	24	52	0	13,879	2,035	4,875	1,750	6,968
4827+00	50.00	88.1	13.2	26.1	0.0	175	24	60	0	14,054	2,060	4,935	1,750	7,060
4827+50	50.00	115.3	13.2	27.7	0.0	188	24	50	0	14,243	2,084	4,985	1,750	7,174
4828+00	50.00	172.9	13.2	32.4	0.0	267	24	56	0	14,509	2,109	5,040	1,750	7,361
4828+50	50.00	132.3	13.2	25.6	0.0	283	24	54	0	14,792	2,133	5,094	1,750	7,565
4829+00	50.00	137.8	13.2	16.8	0.0	250	24	39	0	15,042	2,157	5,133	1,750	7,752
4829+50	50.00	148.5	13.2	19.3	0.0	265	24	33	0	15,307	2,182	5,167	1,750	7,959
4830+00	50.00	142.5	13.2	19.9	0.0	269	24	36	0	15,577	2,206	5,203	1,750	8,168
4830+50	50.00	139.6	13.2	20.0	0.0	261	24	37	0	15,838	2,230	5,240	1,750	8,368
4831+00	50.00	123.9	13.2	17.7	0.0	244	24	35	0	16,082	2,255	5,275	1,750	8,552
4831+50	50.00	128.4	13.2	16.7	0.0	234	24	32	0	16,315	2,279	5,307	1,750	8,730
4832+00	50.00	146.4	13.2	14.7	0.0	254	24	29	0	16,570	2,304	5,336	1,750	8,931
4832+50	50.00	134.1	13.2	60.2	0.0	260	24	69	0	16,830	2,328	5,405	1,750	9,097
4833+00	50.00	140.9	13.2	15.2	0.0	255	24	70	0	17,084	2,352	5,475	1,750	9,257
4833+50	50.00	129.9	13.2	16.4	0.0	251	24	29	0	17,335	2,377	5,504	1,750	9,454
4834+00	50.00	118.4	13.2	14.1	0.0	230	24	28	0	17,565	2,401	5,532	1,750	9,631
4834+50	50.00	109.6	13.2	39.3	0.0	211	24	49	0	17,776	2,425	5,582	1,750	9,769
4835+00	50.00	120.5	13.2	30.0	0.0	213	24	64	0	17,989	2,450	5,646	1,750	9,893
4835+50	50.00	110.5	13.2	31.8	0.0	214	24	57	0	18,203	2,474	5,703	1,750	10,026
4836+00	50.00	113.6	13.2	25.9	0.0	208	24	53	0	18,410	2,499	5,757	1,750	10,155
4836+50	50.00	119.2	13.2	26.8	0.0	216	24	49	0	18,626	2,523	5,805	1,750	10,298
4837+00	50.00	117.6	13.2	26.2	0.0	219	24	49	0	18,845	2,547	5,854	1,750	10,443
4837+50	50.00	121.0	13.2	22.9	0.0	221	24	45	0	19,066	2,572	5,900	1,750	10,594
4838+00	50.00	117.1	13.2	81.9	0.0	220	24	97	0	19,287	2,596	5,997	1,750	10,694
4838+50	50.00	207.9	13.2	8.9	0.0	301	24	84	0	19,588	2,620	6,081	1,750	10,886
4839+00	50.00	150.8	13.2	23.1	0.0	332	24	30	0	19,920	2,645	6,111	1,750	11,164
4839+50	50.00	138.9	13.2	28.7	0.0	268	24	48	0	20,188	2,669	6,159	1,750	11,360
4840+00	50.00	114.7	13.2	32.6	0.0	235	24	57	0	20,423	2,694	6,215	1,750	11,514
4840+50	50.00	112.4	13.2	40.6	0.0	210	24	68	0	20,633	2,718	6,283	1,750	11,632
4841+00	50.00	113.5	13.2	37.3	0.0	209	24	72	0	20,842	2,742	6,355	1,750	11,744
4841+50	50.00	108.1	13.2	49.9	0.0	205	24	81	0	21,047	2,767	6,436	1,750	11,845
4842+00	50.00	104.3	13.2	64.5	0.0	197	24	106	0	21,244	2,791	6,542	1,750	11,911
4842+50	50.00	99.8	13.2	79.2	0.0	189	24	133	0	21,433	2,815	6,675	1,750	11,942
4843+00	50.00	94.8	13.2	78.8	0.0	180	24	146	0	21,613	2,840	6,821	1,750	11,952
4843+50	50.00	110.3	13.2	31.8	0.0	190	24	102	0	21,803	2,864	6,924	1,750	12,015
4844+00	50.00	110.0	13.2	16.9	0.0	204	24	45	0	22,007	2,889	6,969	1,750	12,150
4844+50	50.00	97.3	13.2	11.7	0.0	192	24	26	0	22,199	2,913	6,995	1,750	12,291
4845+00	50.00	102.7	13.2	7.4	0.0	185	24	18	0	22,384	2,937	7,013	1,750	12,434
4845+08	8.00	106.2	13.2	5.5	0.0	31	4	2	0	22,415	2,941	7,015	1,750	12,459
WEST FRONTAGE ROAD TOTAL						**22,415**	**2,941**	**7,015**	**1,750**	**22,415**	**2,941**	**7,015**	**1,750**	**12,459**

		56TH ROAD									
		AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)			
STATION	Distance	Cut	Salvaged/Unusable Pavement Material	Fill	Cut	Salvaged/Unusable Pavement Material	Fill	Cut 1.00	Salvaged/Unusable Pavement Material	Expanded Fill 1.20	Mass Ordinate
46+50	0.00	0.0	0.0	0.0	0	0	0	0	0	0	0
47+00	50.00	51.0	6.0	0.1	47	6	0	47	6	0	42
47+50	50.00	33.8	6.0	2.8	79	11	3	126	17	3	106
48+00	50.00	117.5	6.0	0.0	140	11	3	266	28	6	232
48+50	50.00	223.1	6.0	0.0	315	11	0	581	39	6	536
49+00	50.00	193.3	9.0	0.0	386	14	0	967	53	6	908
49+50	50.00	254.7	13.0	0.0	415	20	0	1,382	73	6	1,302
49+72	22.00	0.0	18.0	0.0	104	13	0	1,485	86	6	1,393
56TH ROAD					**1,485**	**86**	**5**	**1,485**	**86**	**6**	**1,393**

		LEETSBIR ROAD									
		AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)			
STATION	Distance	Cut	Salvaged/Unusable Pavement Material	Fill	Cut	Salvaged/Unusable Pavement Material	Fill	Cut 1.00	Salvaged/Unusable Pavement Material	Expanded Fill 1.20	Mass Ordinate
76+25	0.00	0.0	0.0	0.0	0	0	0	0	0	0	0
76+35	10.00	0.0	0.0	0.0	0	0	0	0	0	0	0
76+50	15.00	76.9	6.0	16.9	21	2	5	21	2	6	14
77+00	50.00	60.8	6.0	27.9	128	11	41	149	13	55	81
77+50	50.00	37.8	8.0	109.9	91	13	128	240	26	209	6
77+60	10.00	22.9	11.0	224.4	11	4	62	251	29	283	-61
LEETSBIR ROAD					**251**	**29**	**236**	**251**	**29**	**283**	**-61**

		GRANDVIEW PARKWAY									
		AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)			
STATION	Distance	Cut	Salvaged/Unusable Pavement Material	Fill	Cut	Salvaged/Unusable Pavement Material	Fill	Cut 1.00	Salvaged/Unusable Pavement Material	Expanded Fill 1.20	Mass Ordinate
92+50	0.00	0.0	0.0	0.0	0	0	0	0	0	0	0
93+00	50.00	83.3	8.0	0.0	77	7	0	77	7	0	70
93+50	50.00	103.3	8.0	4.5	173	15	4	250	22	5	223
93+72	22.00	198.6	12.0	20.0	123	8	10	373	30	17	326
GRANDVIEW PARKWAY TOTAL					**373**	**30**	**14**	**373**	**30**	**17**	**326**



PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 195	E

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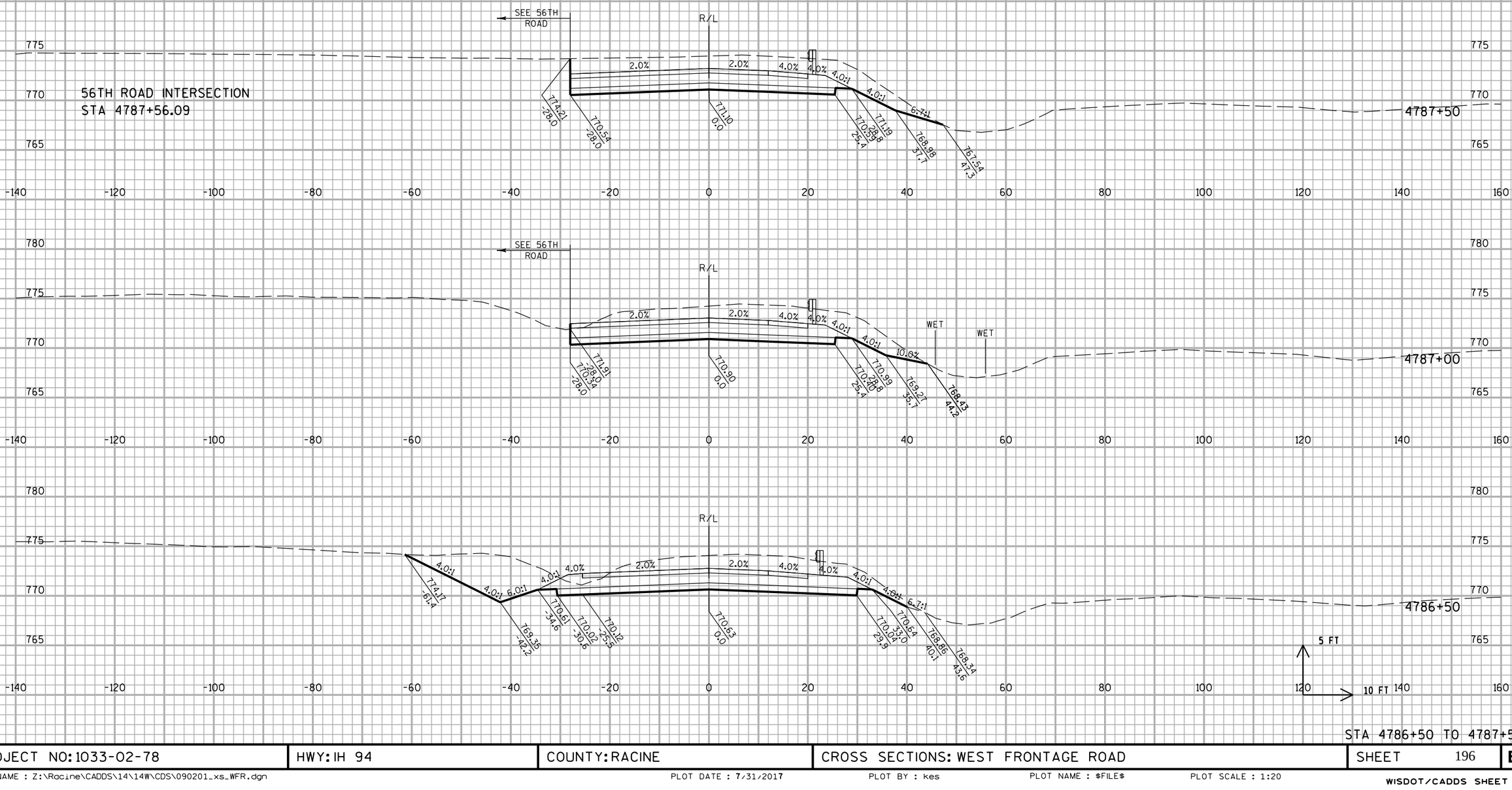
WISDOT/CADDS SHEET 21



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PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 196	E

STA 4786+50 TO 4787+50

9

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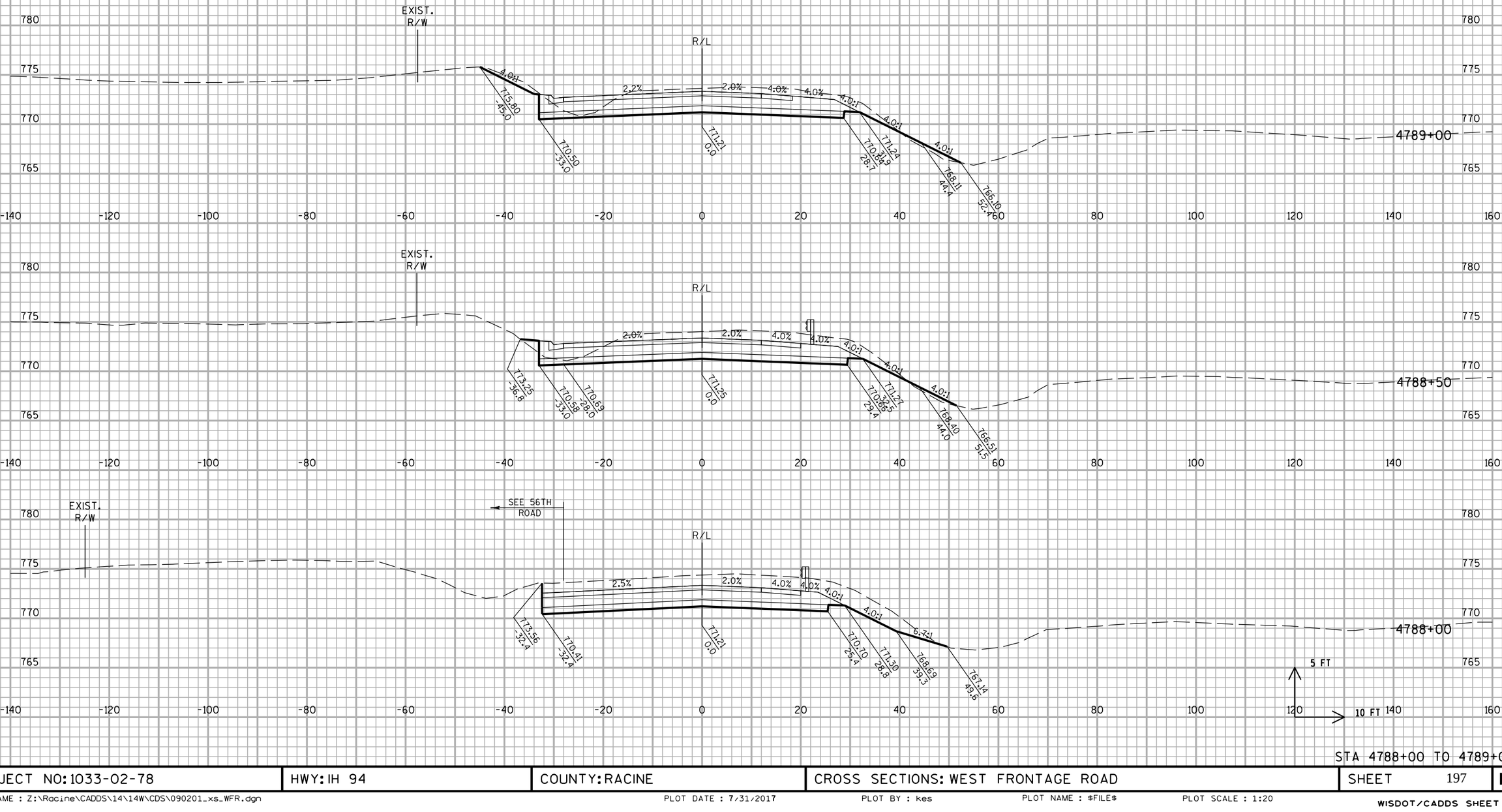
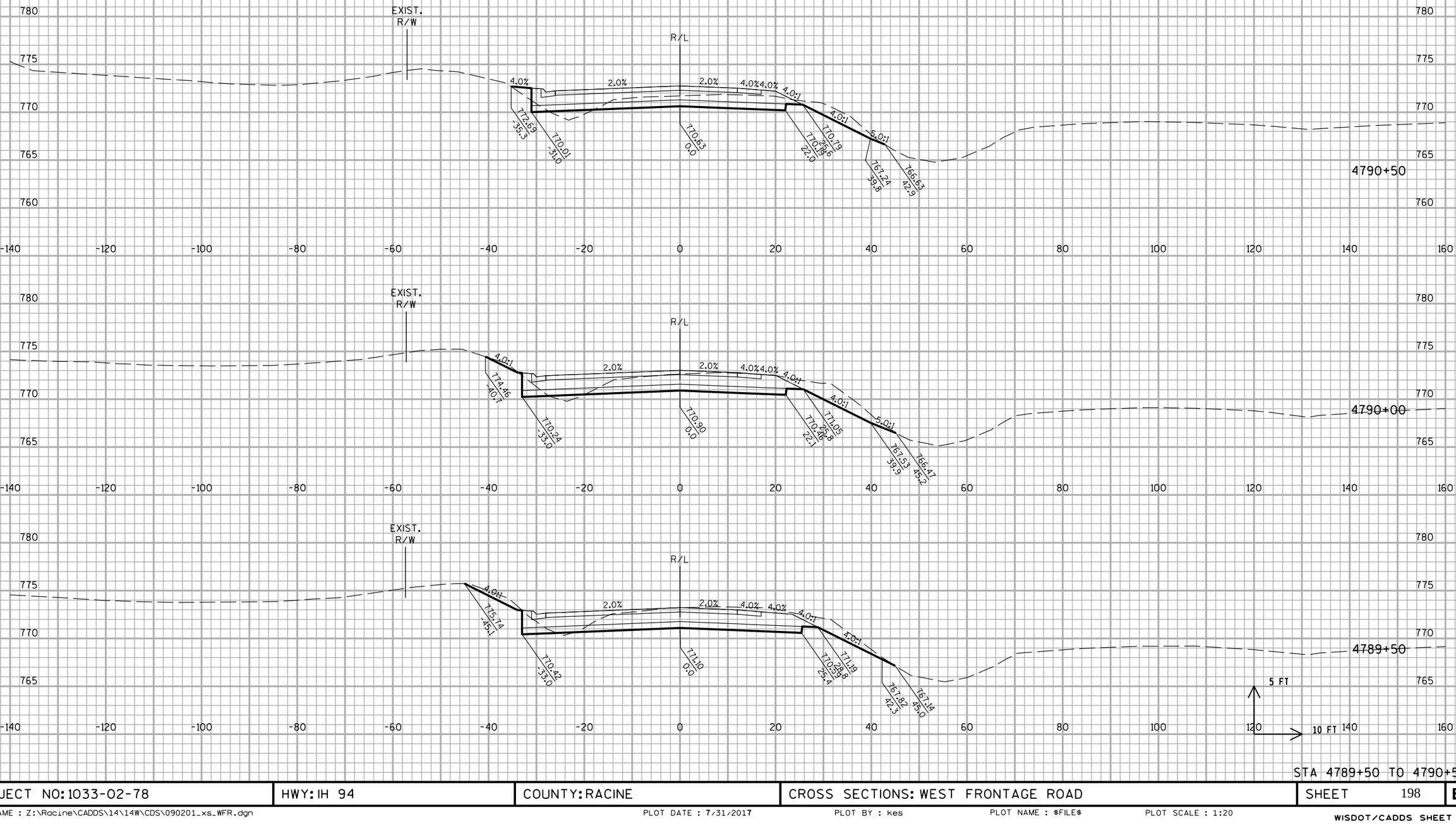
WISDOT/CADDS SHEET 21



STA 4788+00 TO 4789+00

PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 197	E



PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 198	E

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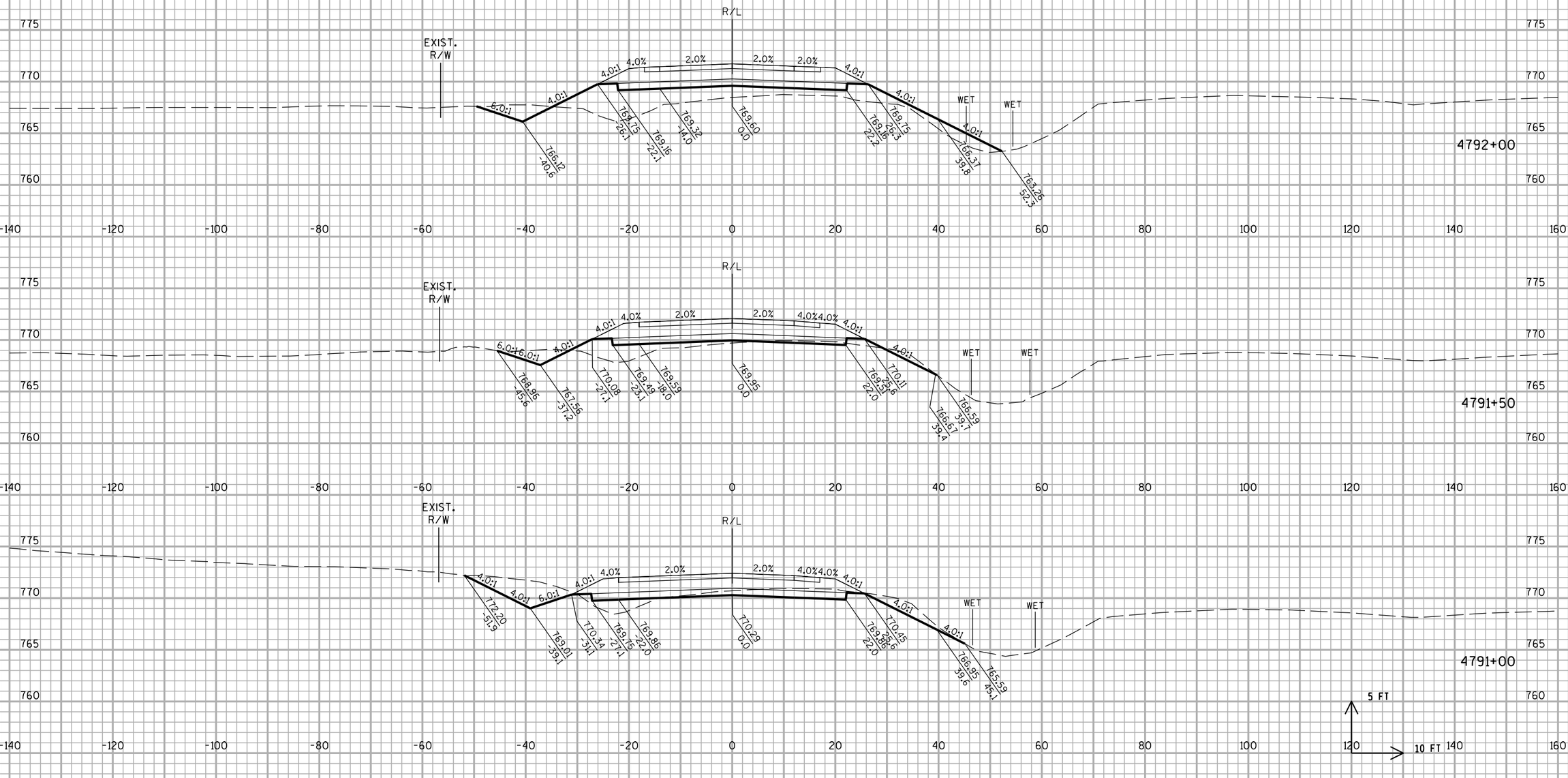
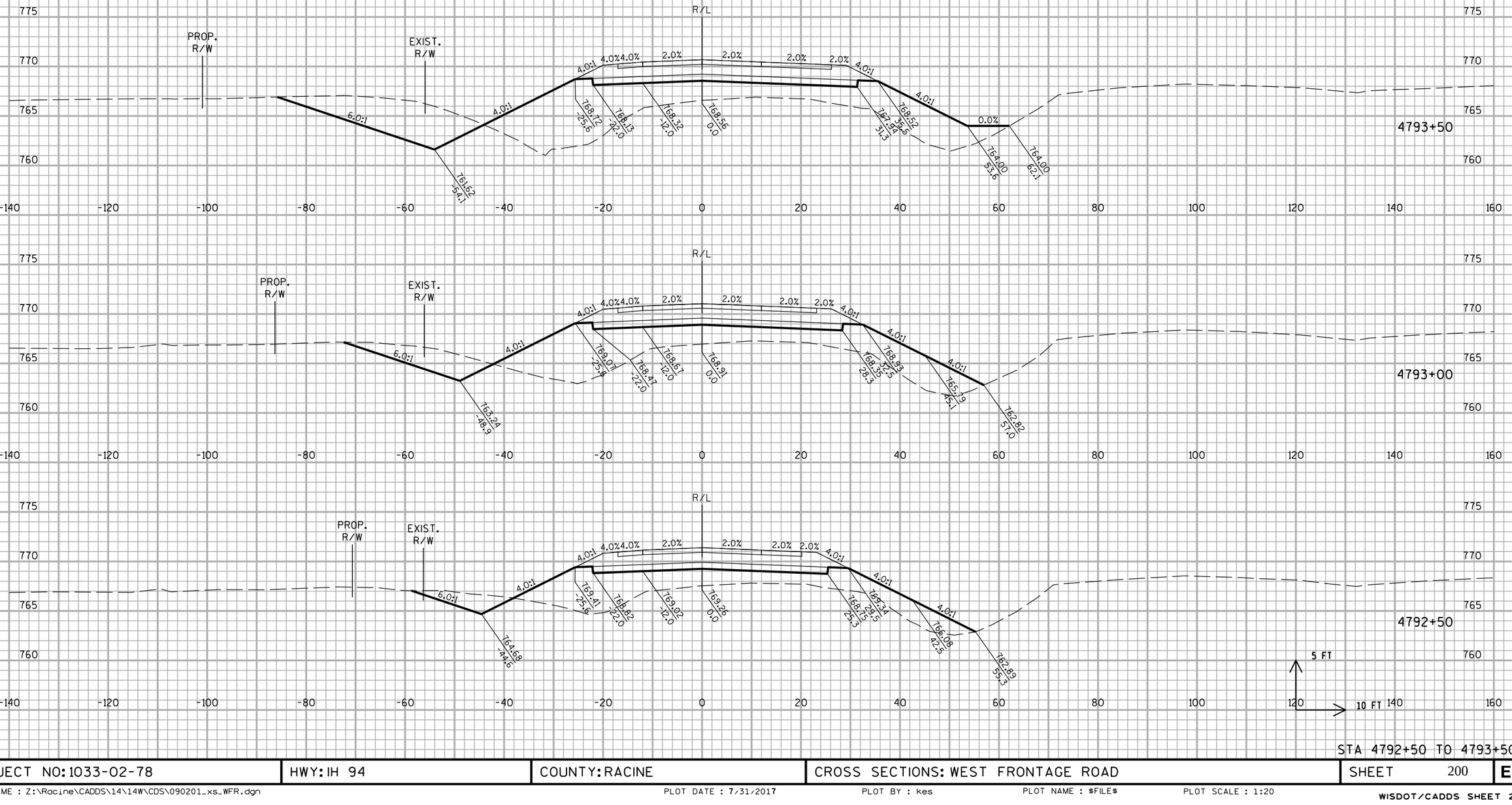
WISDOT/CADDS SHEET 21



STA 4791+00 TO 4792+00

PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 199	E



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STA 4792+50 TO 4793+50

PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 200	E

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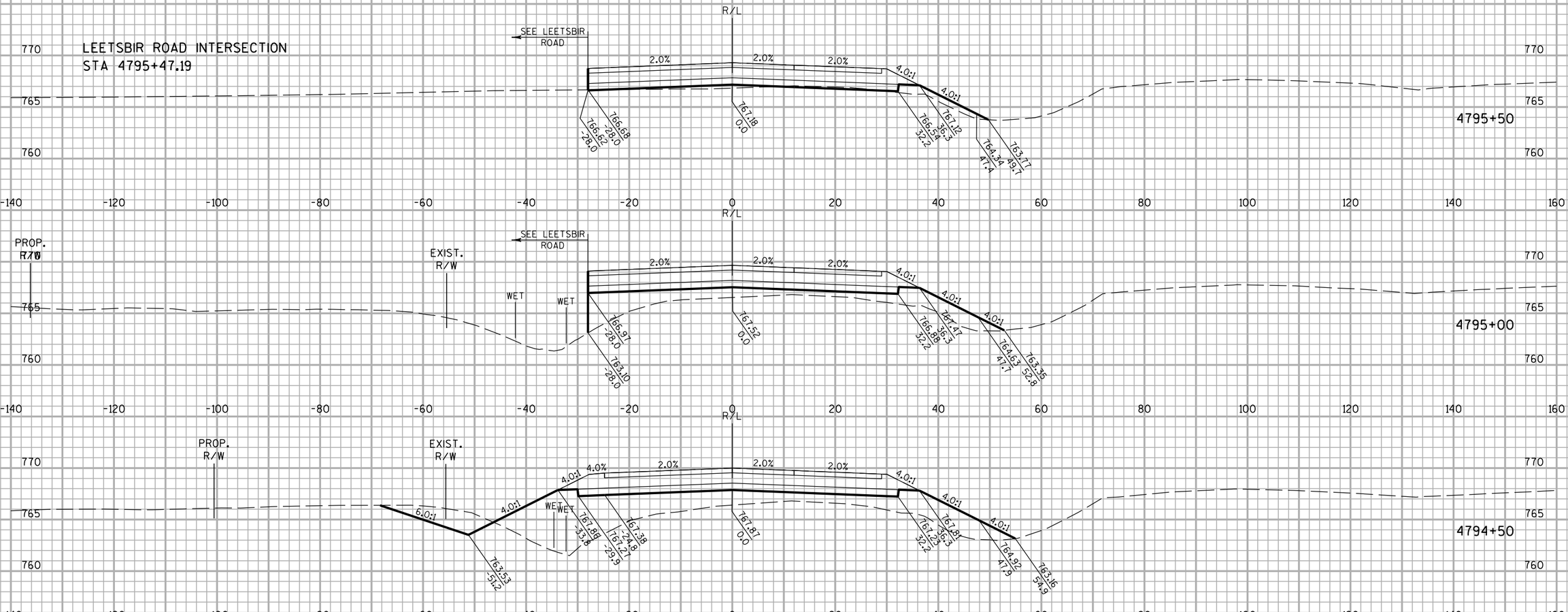
WISDOT/CADDS SHEET 21

LEETSBIR ROAD INTERSECTION
STA 4795+47.19



PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 201	E

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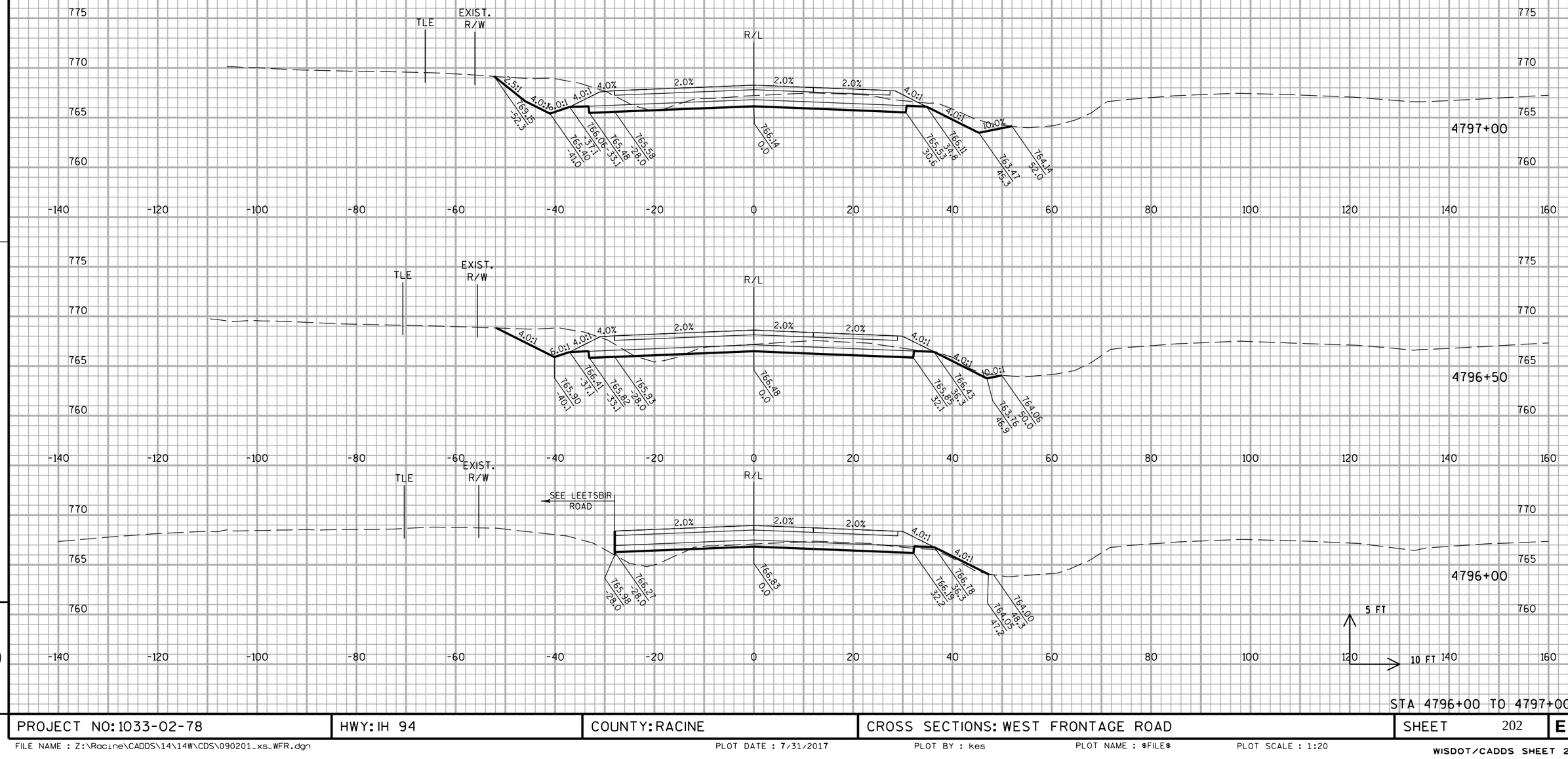
WISDOT/CADDS SHEET 21



STA 4796+00 TO 4797+00

PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 202	E

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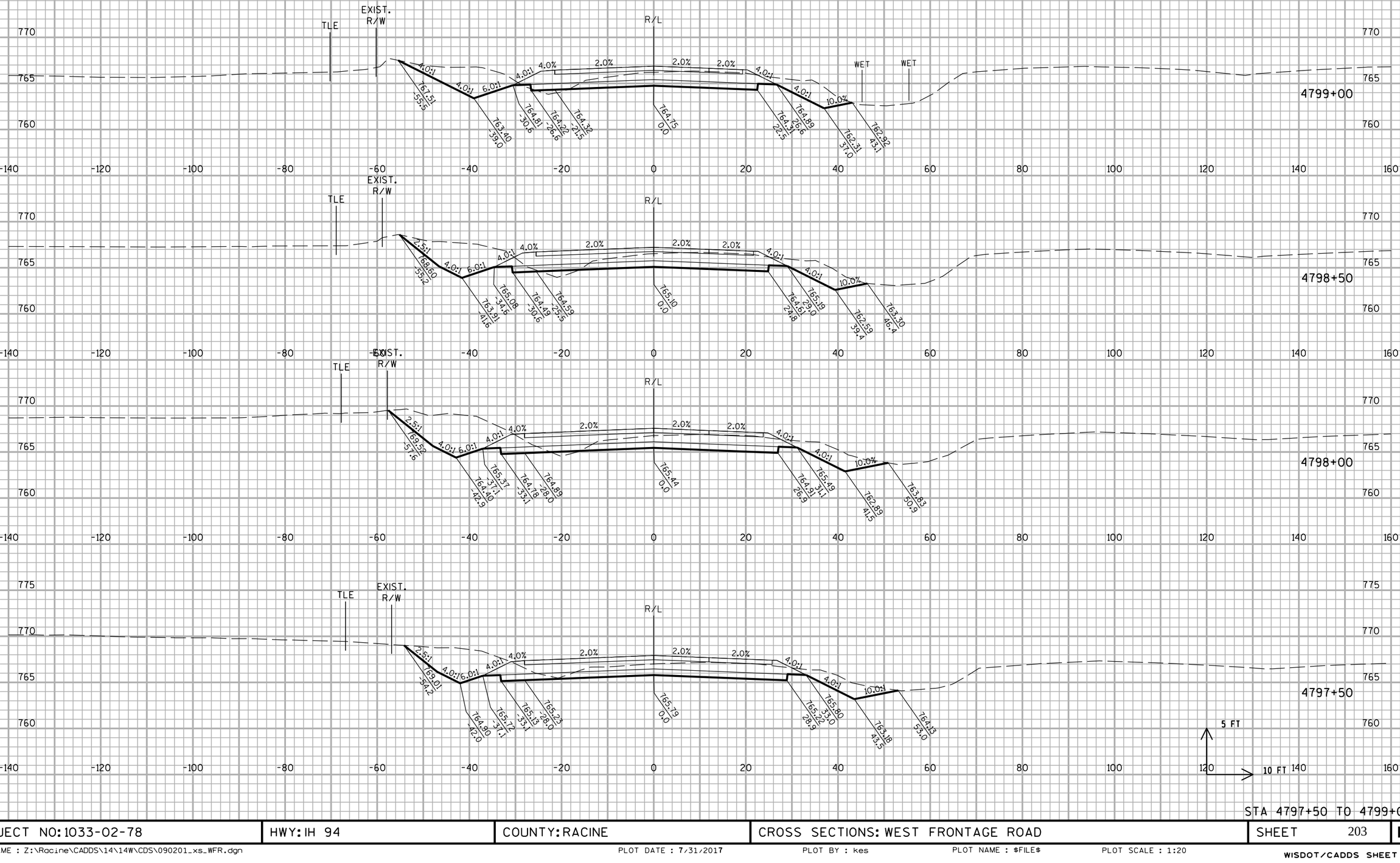
WISDOT/CADDS SHEET 21

9 9



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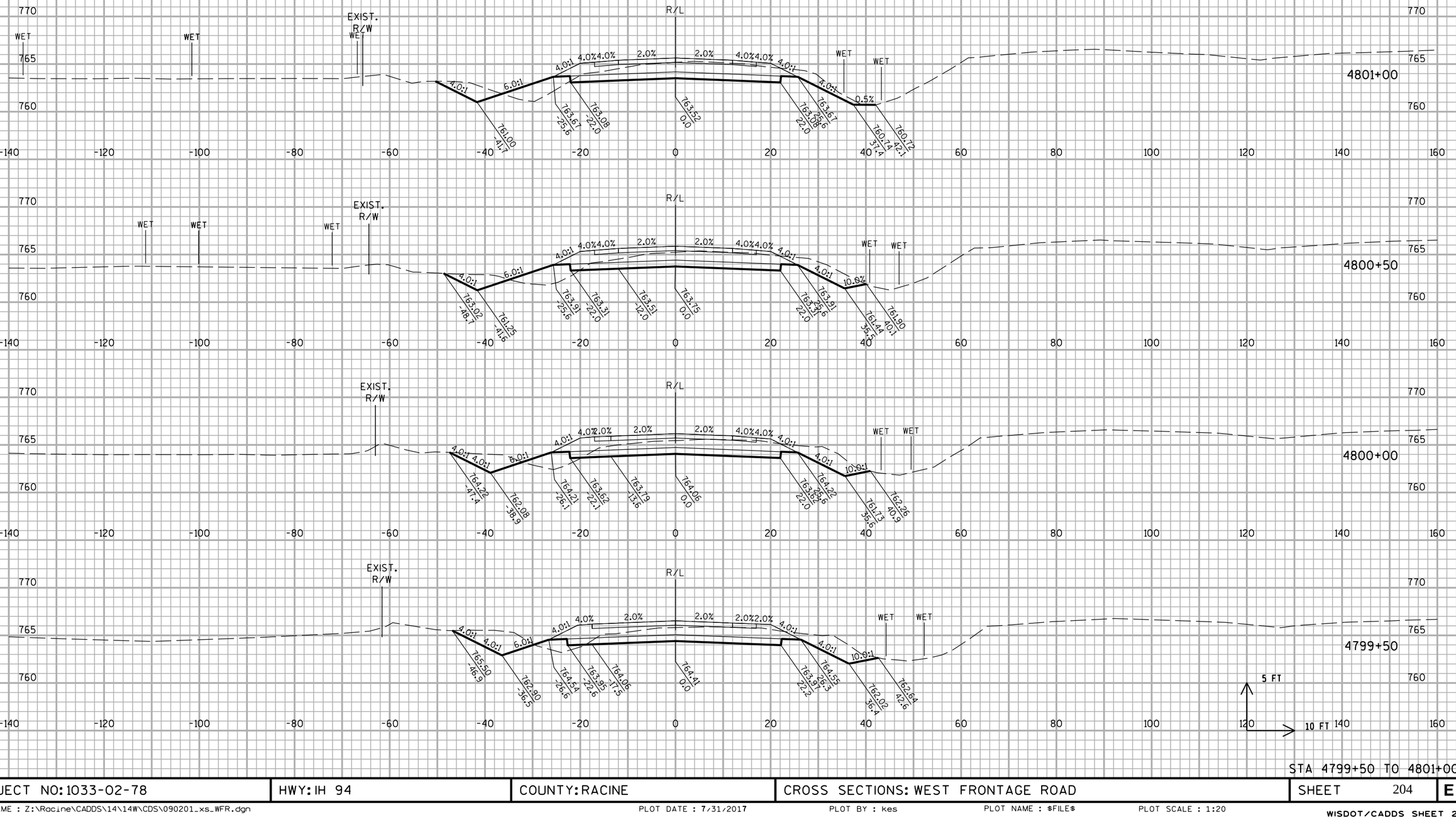
WISDOT/CADDS SHEET 21



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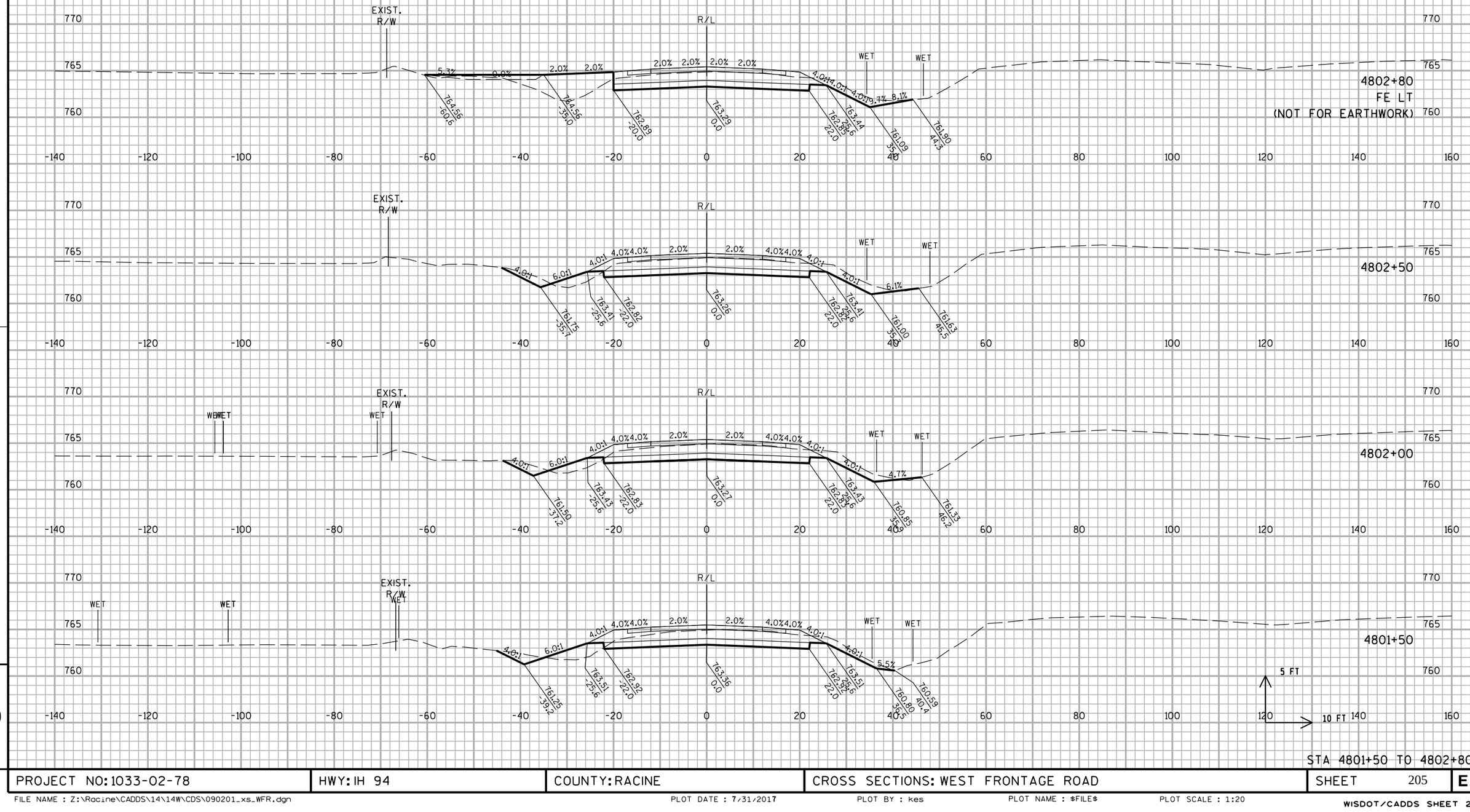
STA 4799+50 TO 4801+00

PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 204	E

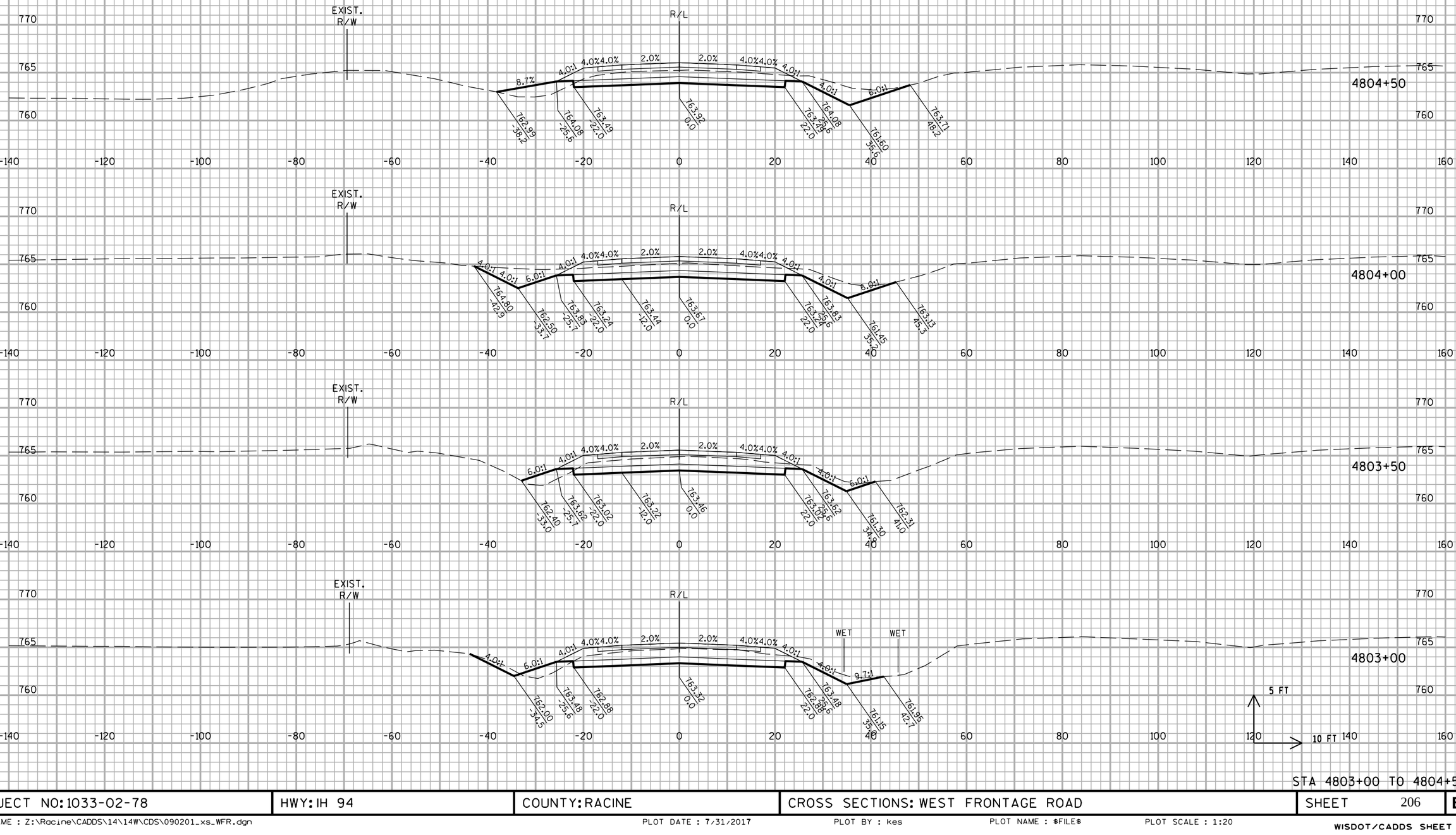
FILE NAME : Z:\Racine\CADDS\14\14W\CDS\090201_xs_WFR.dgn PLOT DATE : 7/31/2017 PLOT BY : kes PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



STA 4801+50 TO 4802+80

PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 205	E

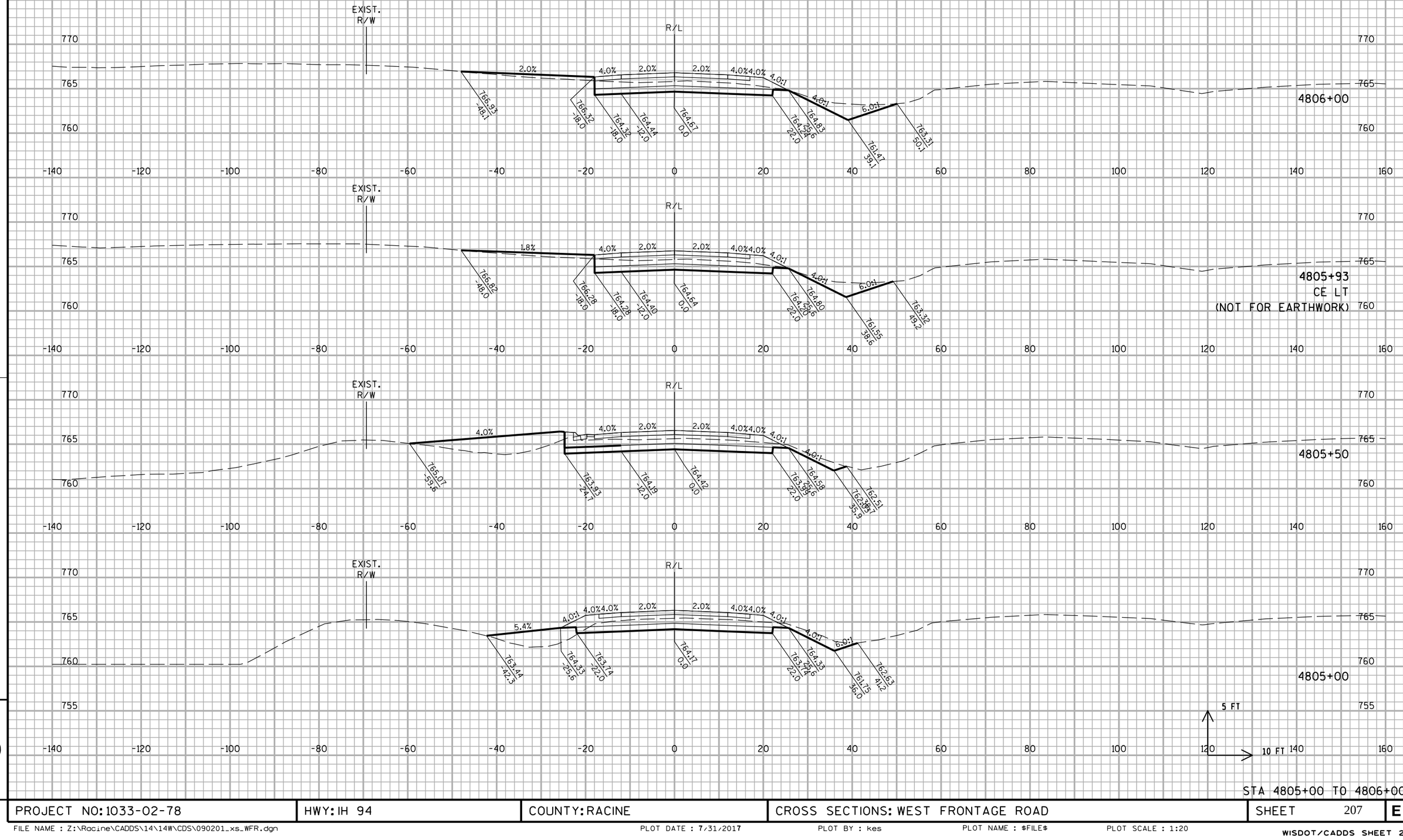


STA 4803+00 TO 4804+50

PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 206	E

FILE NAME : Z:\Racine\CADDS\14\14W\CDS\090201_xs_WFR.dgn PLOT DATE : 7/31/2017 PLOT BY : kes PLOT NAME : $FILE$ PLOT SCALE : 1:20

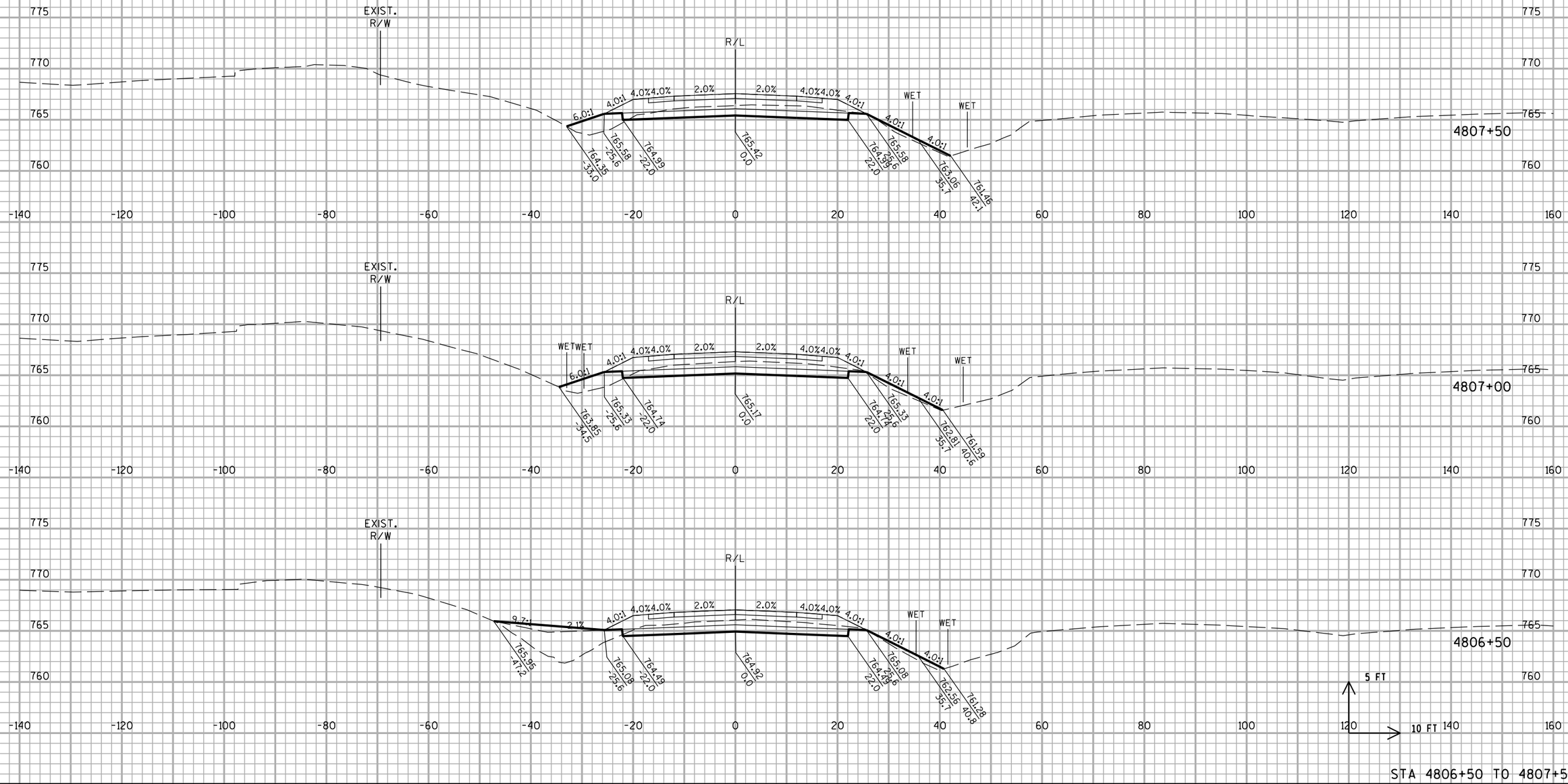
WISDOT/CADDS SHEET 21



PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 207	E

FILE NAME : Z:\Racine\CADDS\14\14W\CDS\090201_xs_WFR.dgn PLOT DATE : 7/31/2017 PLOT BY : kes PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

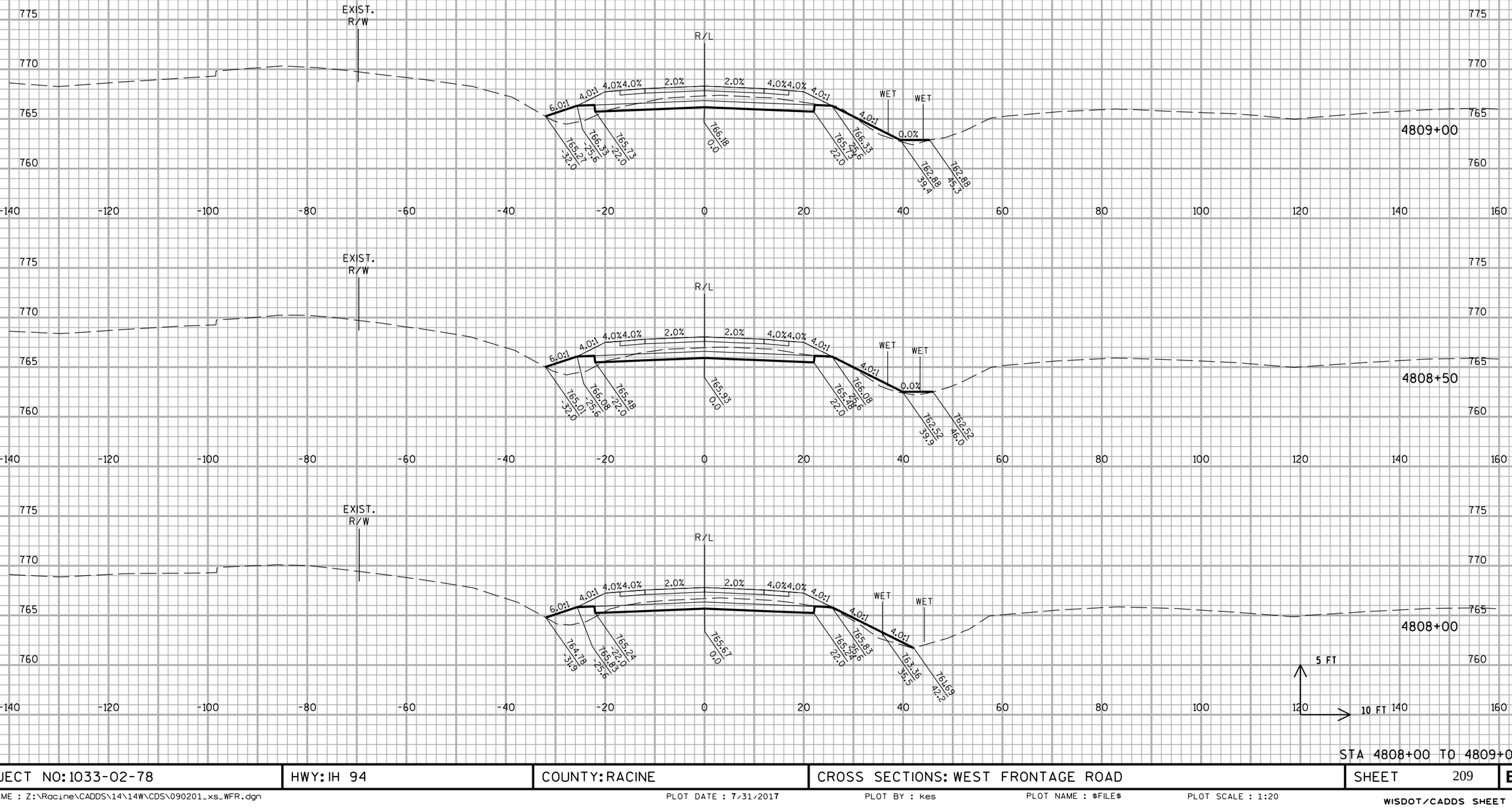


STA 4806+50 TO 4807+50

PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 208	E

FILE NAME : Z:\Racine\CADDS\14\14W\CDS\090201_xs_WFR.dgn PLOT DATE : 7/31/2017 PLOT BY : kes PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

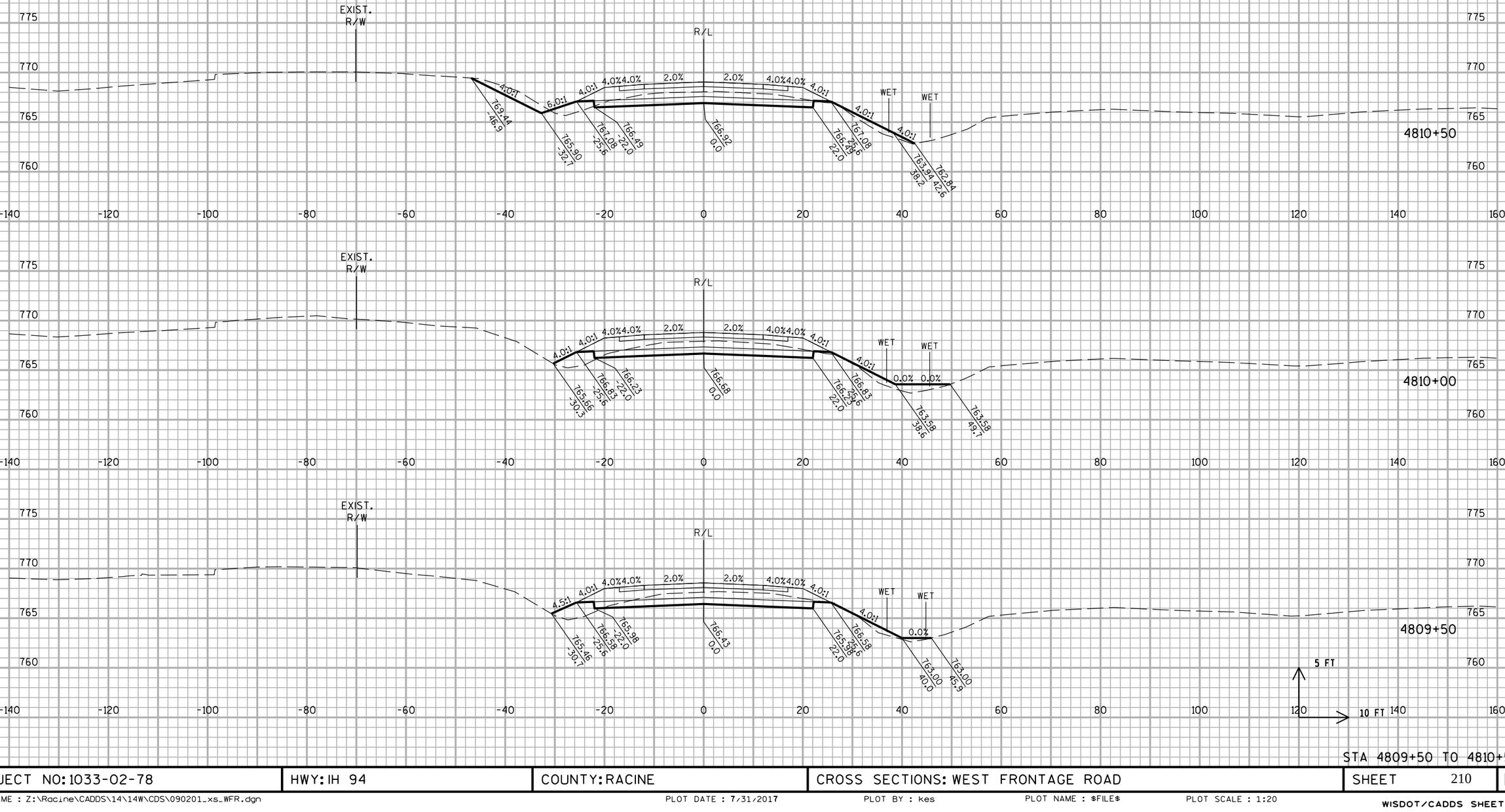


STA 4808+00 TO 4809+00

PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 209	E

FILE NAME : Z:\Racine\CADDS\14\14W\CDS\090201_xs_WFR.dgn PLOT DATE : 7/31/2017 PLOT BY : kes PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



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PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 210	E

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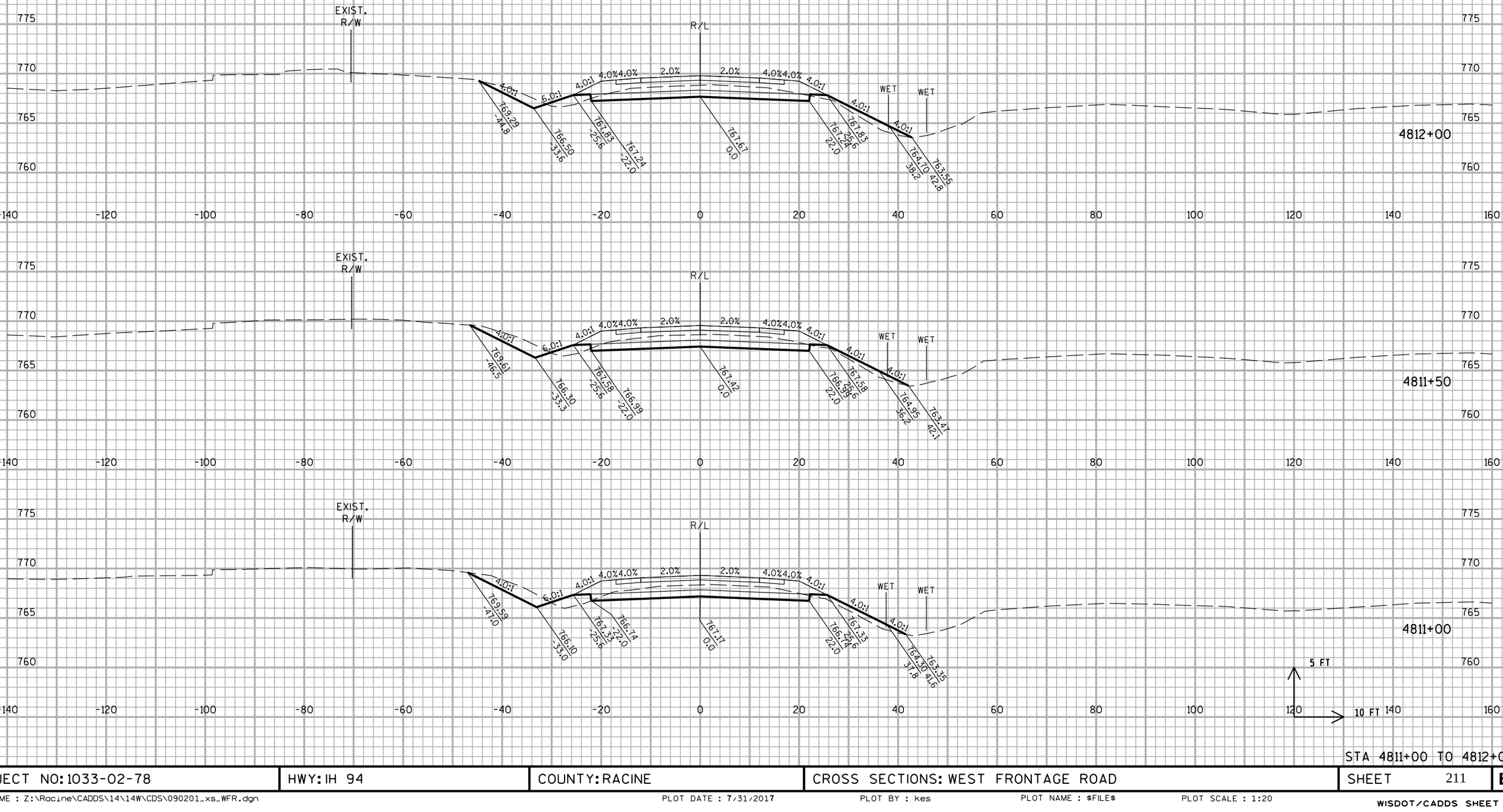

STA 4811+00 TO 4812+00

PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 211	E

FILE NAME : Z:\Racine\CADDS\14\14W\CDS\090201_xs_WFR.dgn PLOT DATE : 7/31/2017 PLOT BY : kes PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

9

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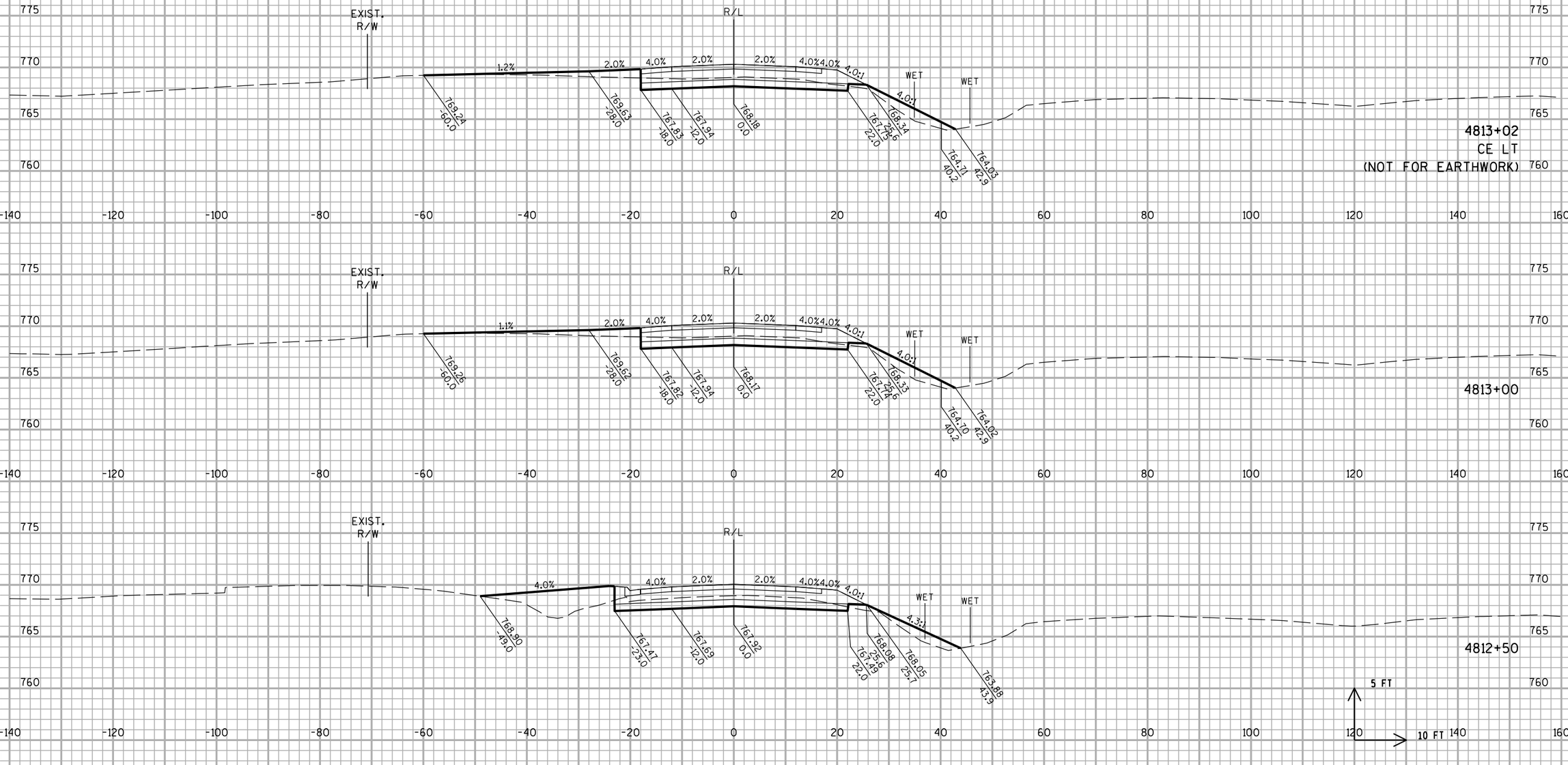
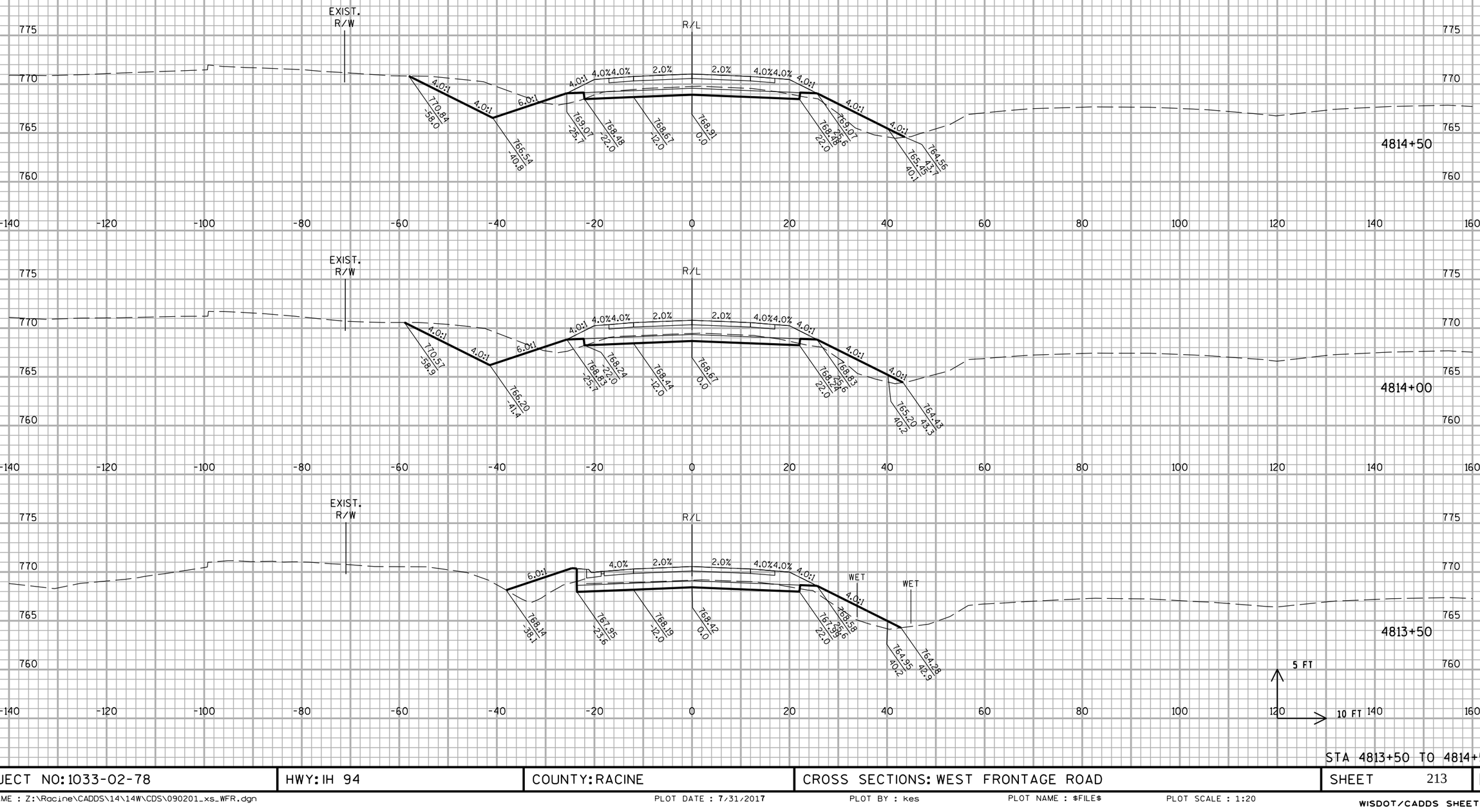


STA 4812+50 TO 4813+02

PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 212	E

FILE NAME : Z:\Racine\CADDS\14\14W\CDS\090201_xs_WFR.dgn PLOT DATE : 7/31/2017 PLOT BY : kes PLOT NAME : $FILE$ PLOT SCALE : 1:20

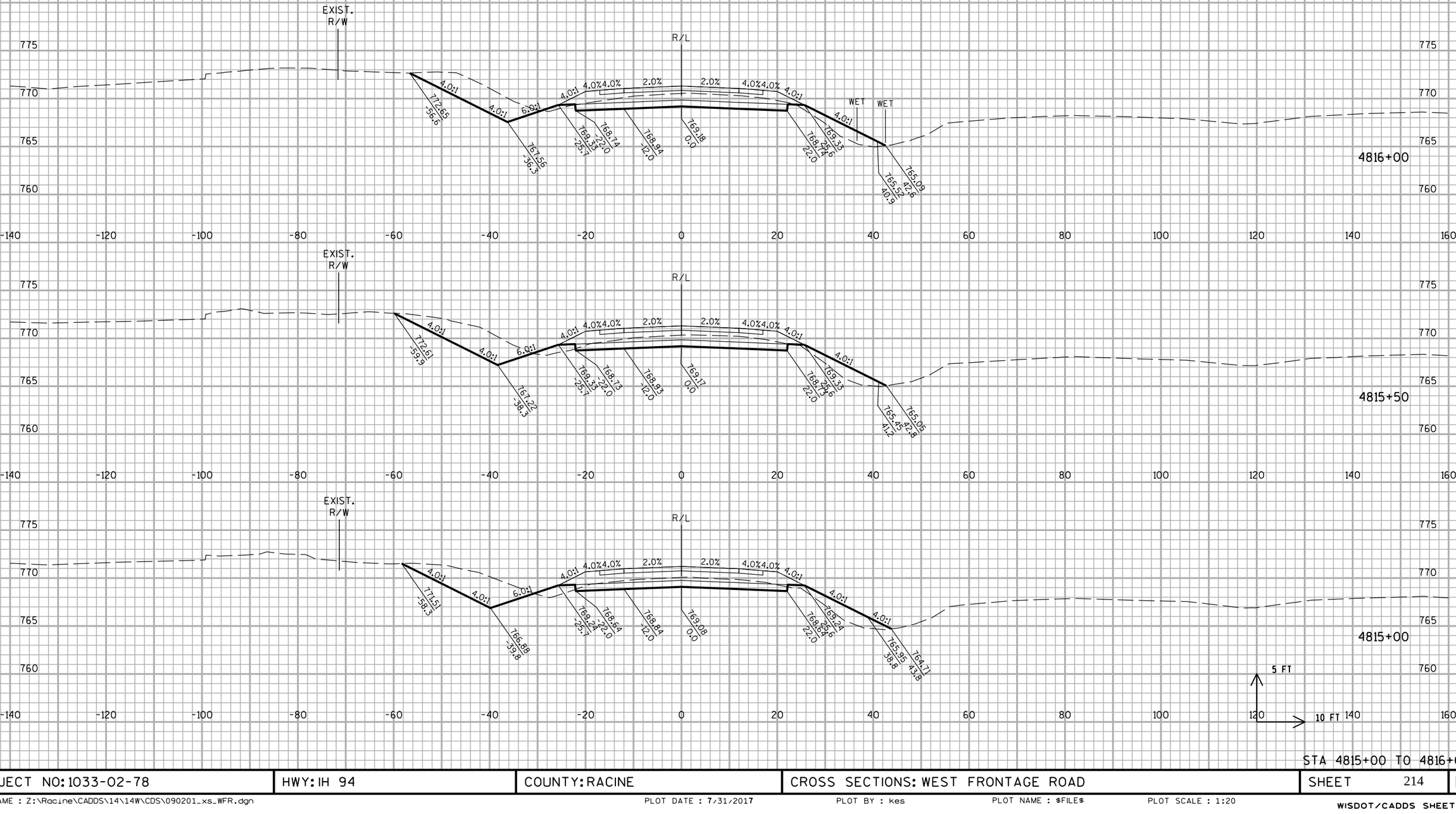
WISDOT/CADDS SHEET 21



PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 213	E

FILE NAME : Z:\Racine\CADDS\14\14W\CDS\090201_xs_WFR.dgn PLOT DATE : 7/31/2017 PLOT BY : kes PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



STA 4815+00 TO 4816+00

PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 214	E

FILE NAME : Z:\Racine\CADDS\14\14W\CDS\090201_xs_WFR.dgn PLOT DATE : 7/31/2017 PLOT BY : kes PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

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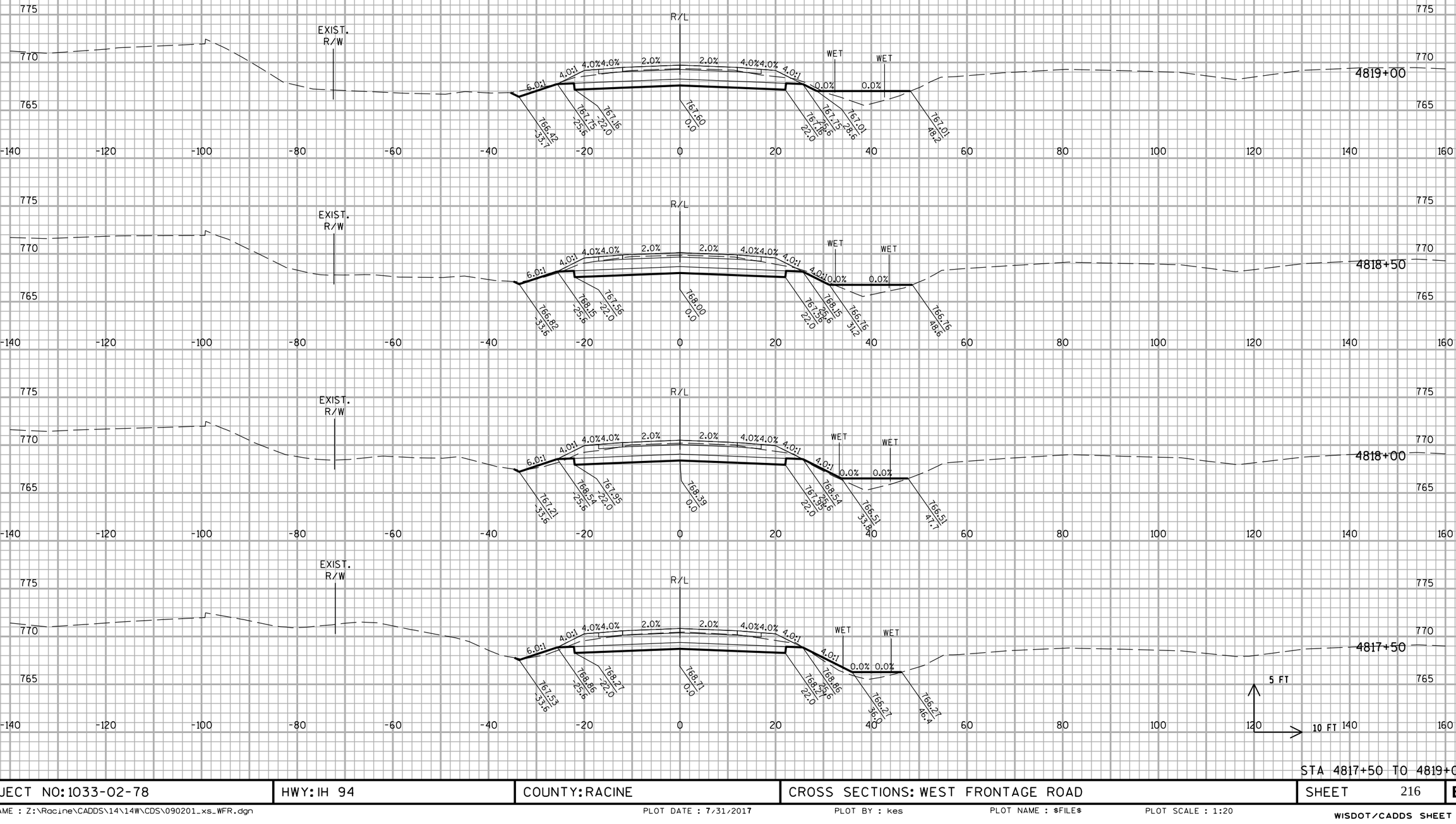
STA 4816+40 TO 4817+00

PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 215	E

FILE NAME : Z:\Racine\CADDS\14\14W\CDS\090201_xs_WFR.dgn PLOT DATE : 7/31/2017 PLOT BY : kes PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

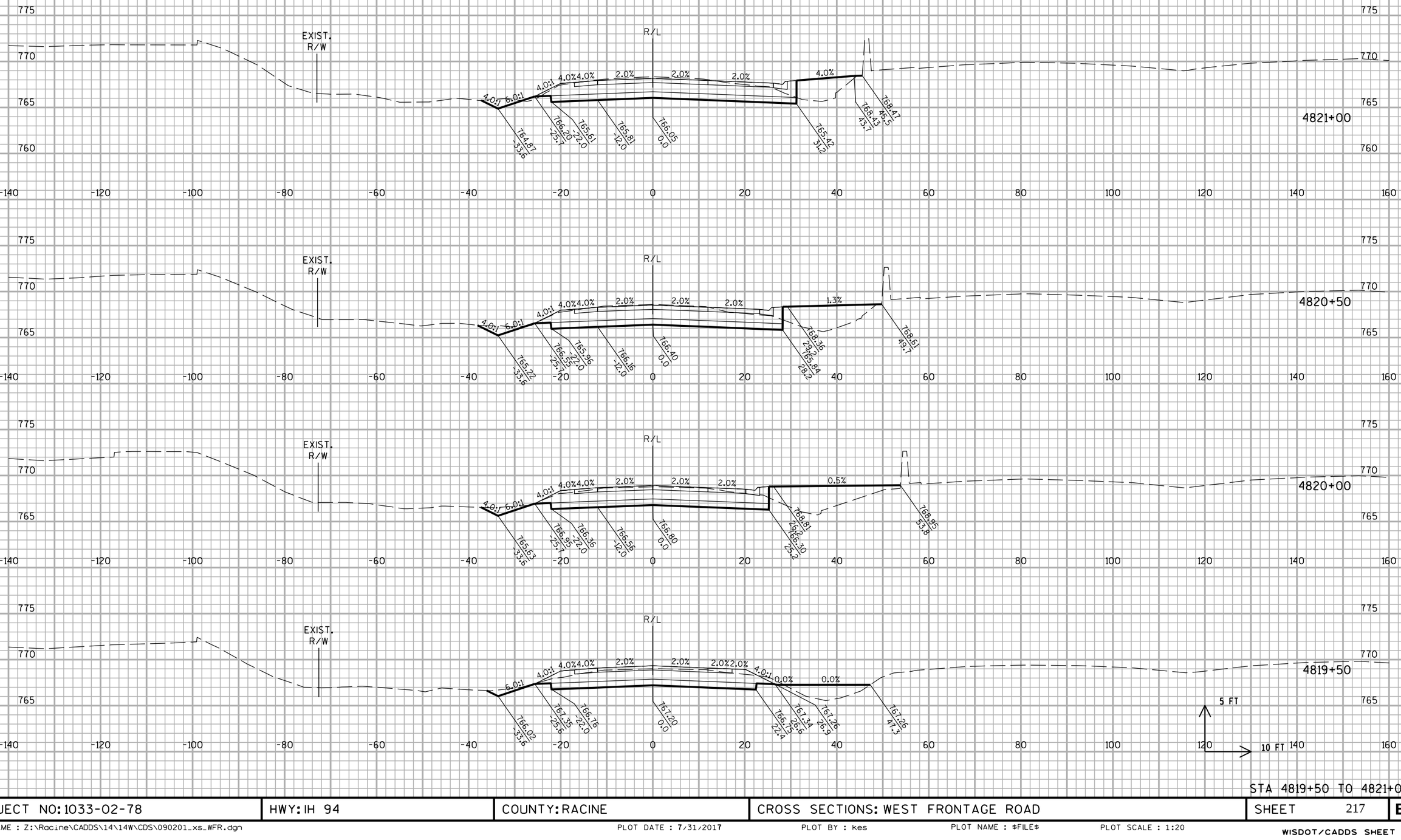


STA 4817+50 TO 4819+00

PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 216	E

FILE NAME : Z:\Racine\CADDS\14\14W\CDS\090201_xs_WFR.dgn PLOT DATE : 7/31/2017 PLOT BY : kes PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



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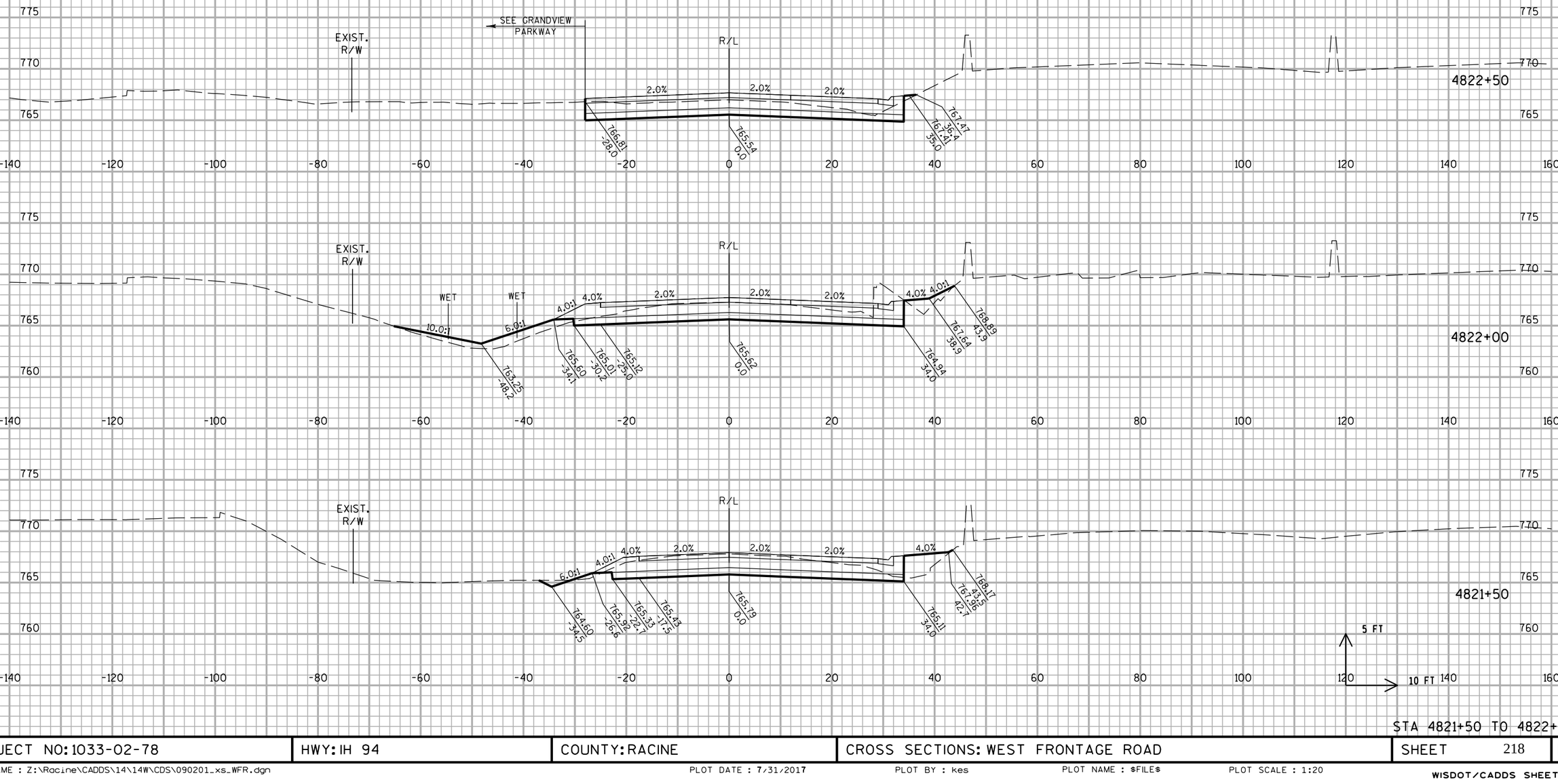
STA 4819+50 TO 4821+00

PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 217	E

FILE NAME : Z:\Racine\CADDS\14\14W\CDS\090201_xs_WFR.dgn PLOT DATE : 7/31/2017 PLOT BY : kes PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



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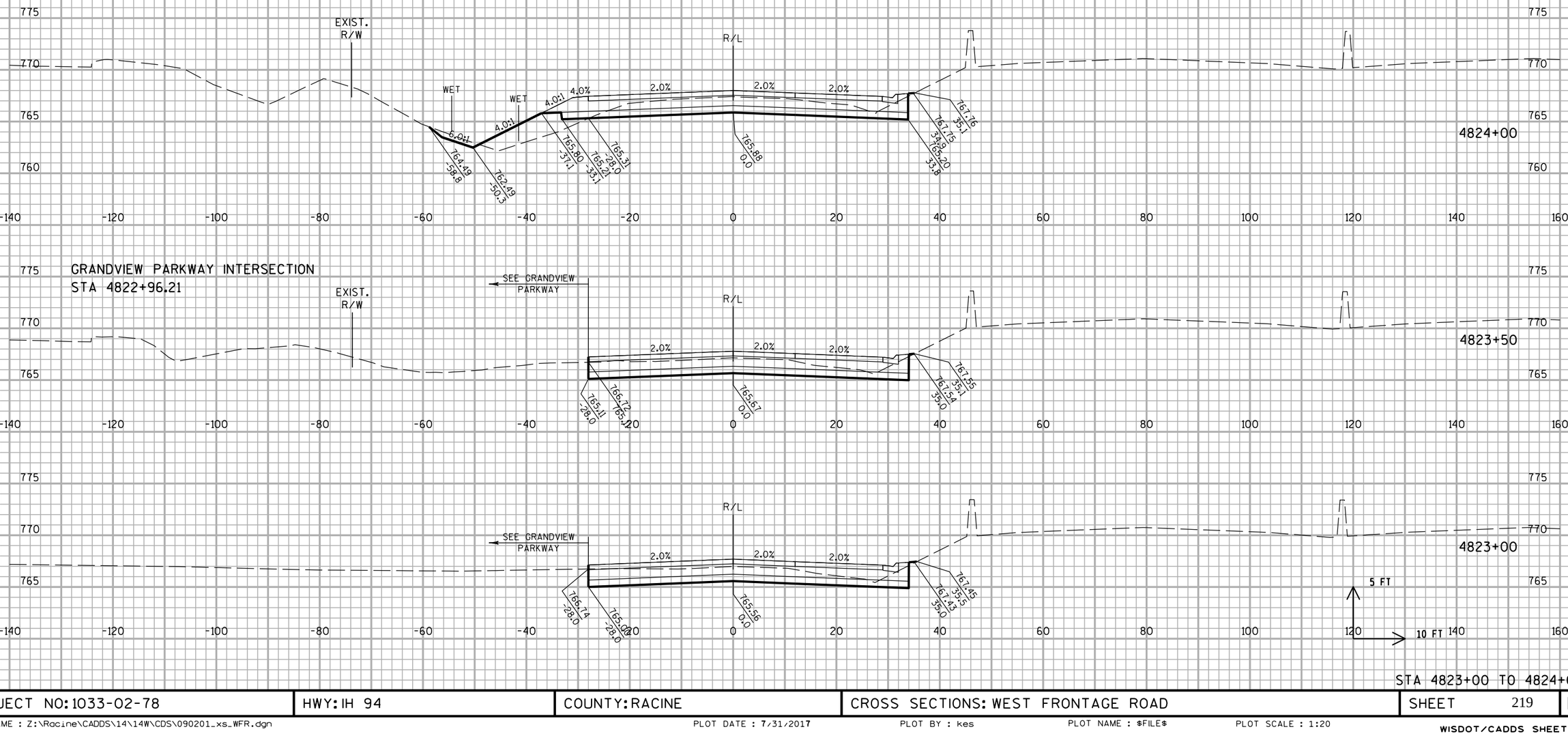
STA 4821+50 TO 4822+50

PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 218	E

FILE NAME : Z:\Racine\CADDS\14\14W\CDS\090201_xs_WFR.dgn PLOT DATE : 7/31/2017 PLOT BY : kes PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

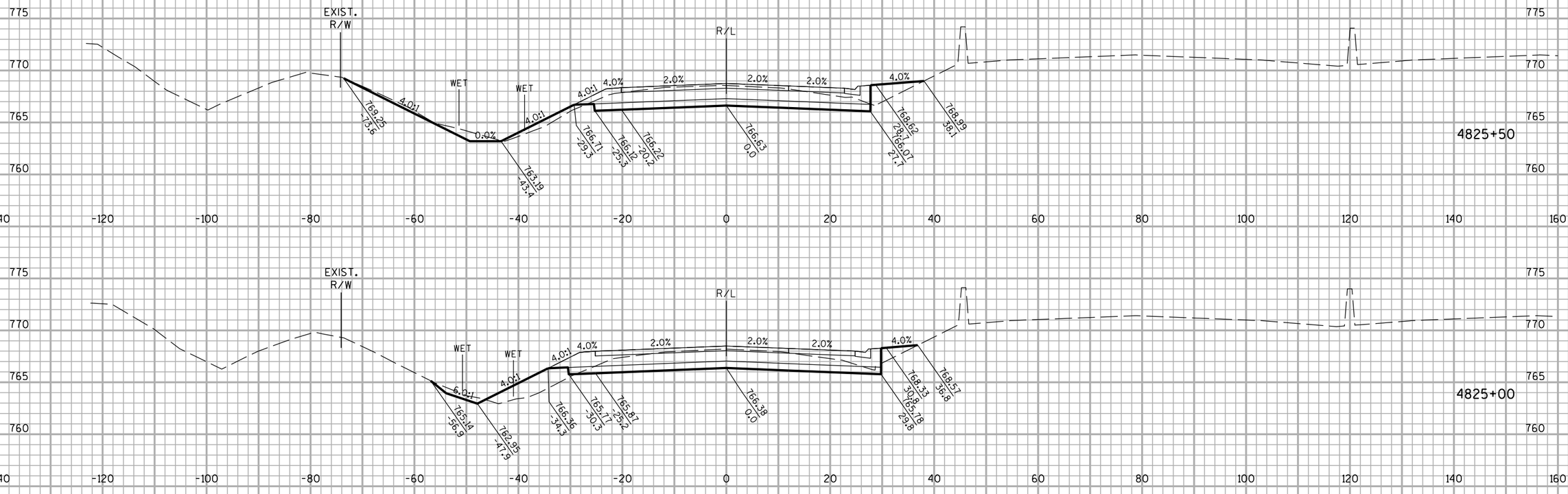


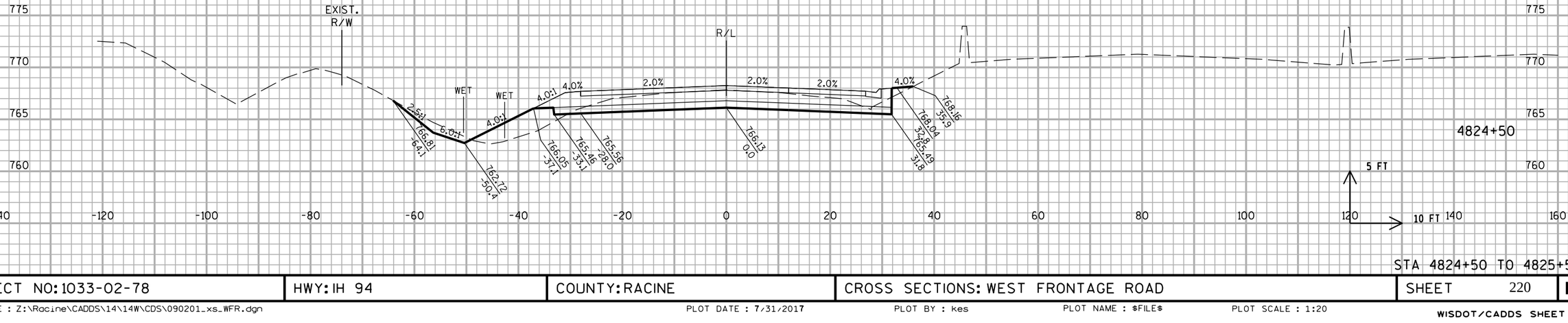
STA 4823+00 TO 4824+00

PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 219	E

FILE NAME : Z:\Racine\CADDS\14\14W\CDS\090201_xs_WFR.dgn PLOT DATE : 7/31/2017 PLOT BY : kes PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



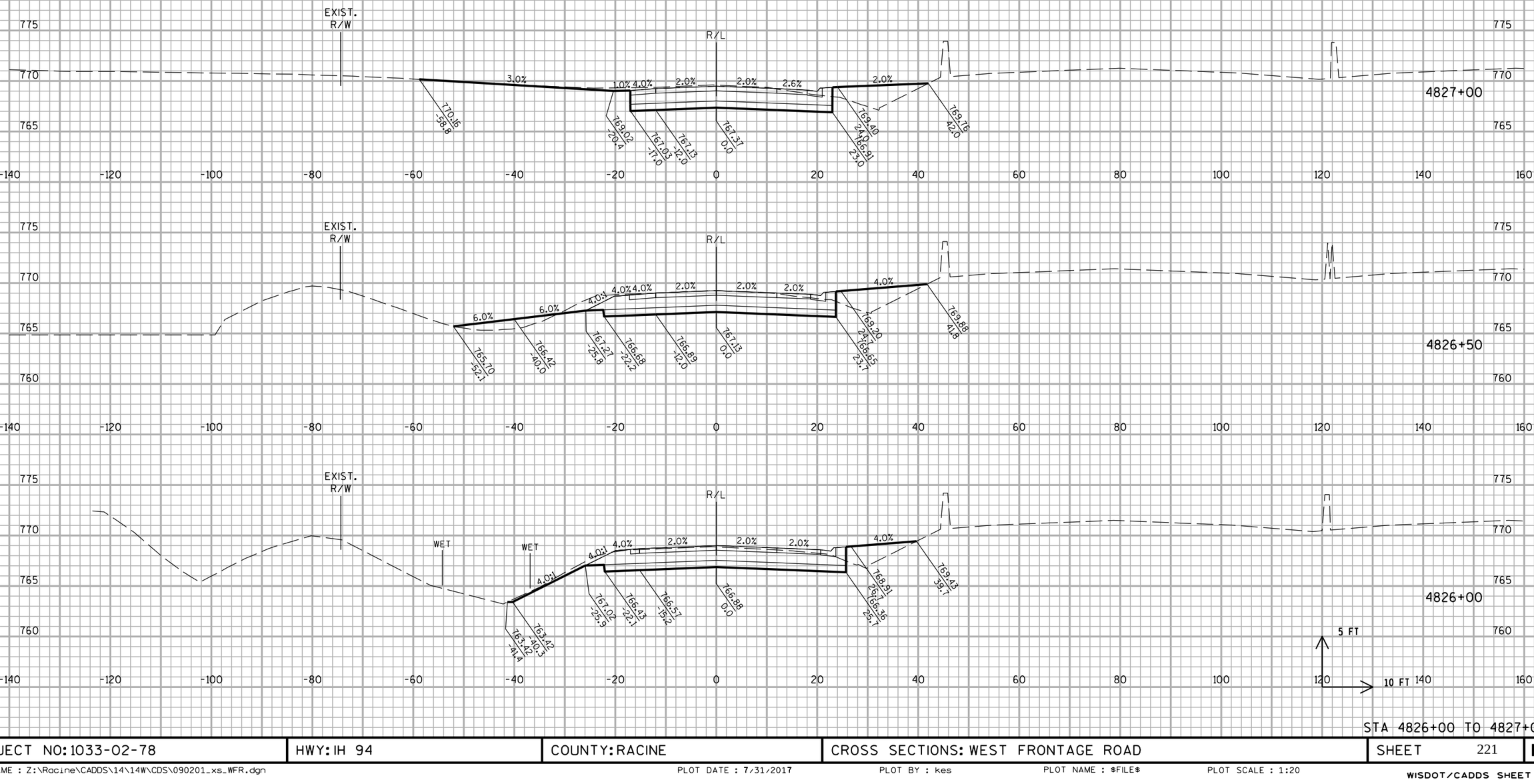


STA 4824+50 TO 4825+50

PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 220	E

FILE NAME : Z:\Racine\CADDS\14\14W\CDS\090201_xs_WFR.dgn PLOT DATE : 7/31/2017 PLOT BY : kes PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

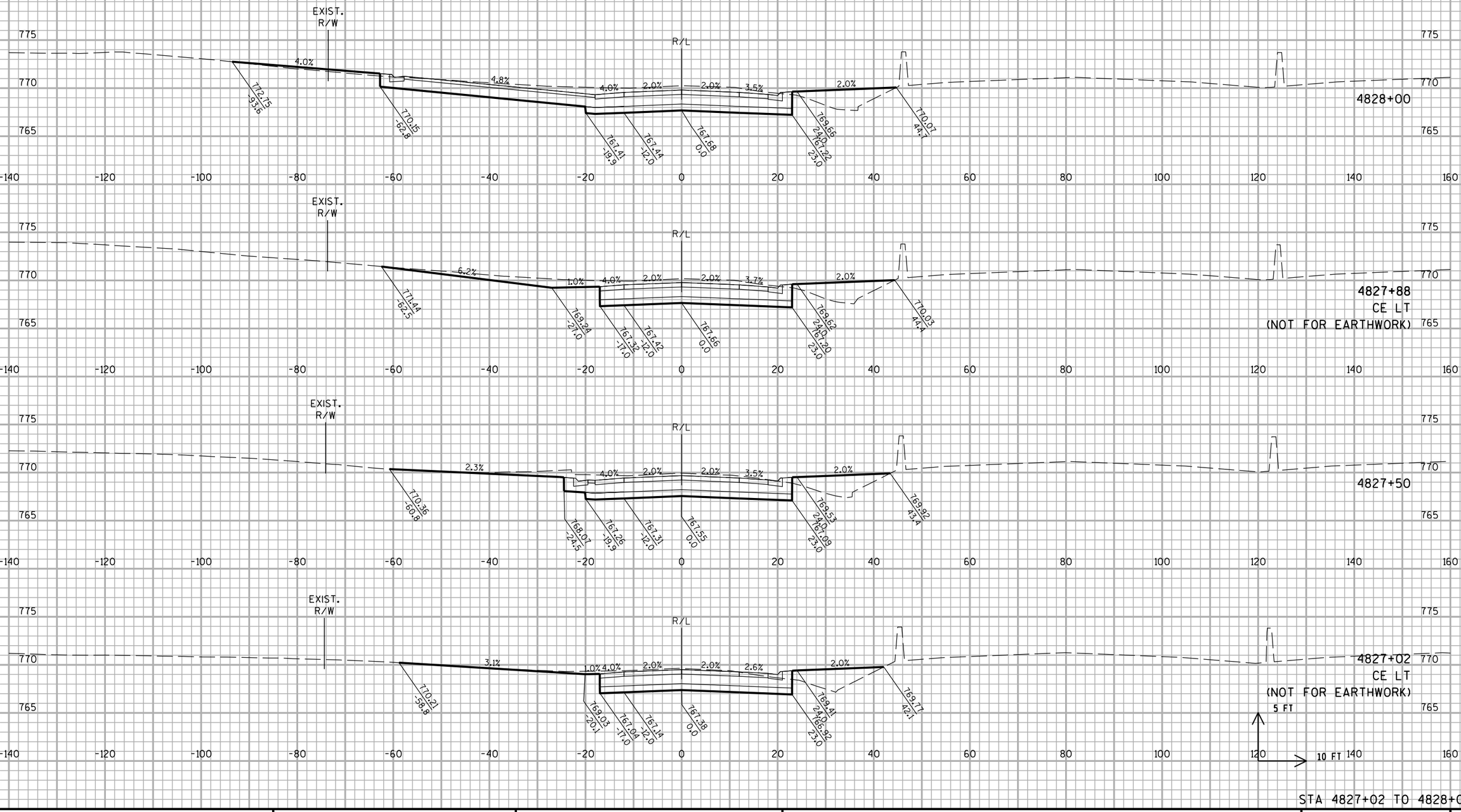


STA 4826+00 TO 4827+00

PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 221	E

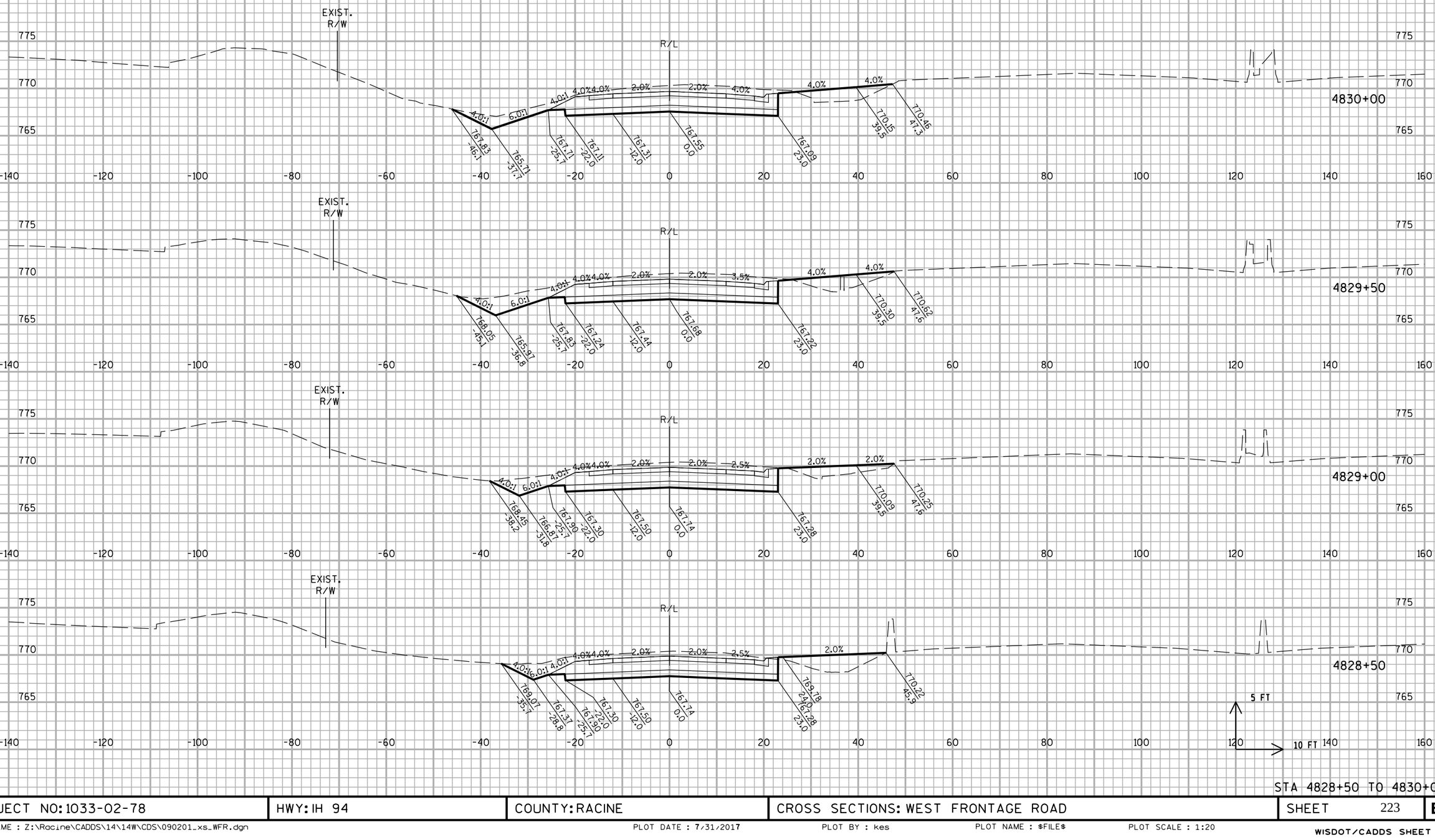
FILE NAME : Z:\Racine\CADDS\14\14W\CDS\090201_xs_WFR.dgn PLOT DATE : 7/31/2017 PLOT BY : kes PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



STA 4827+02 TO 4828+00

PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 222	E



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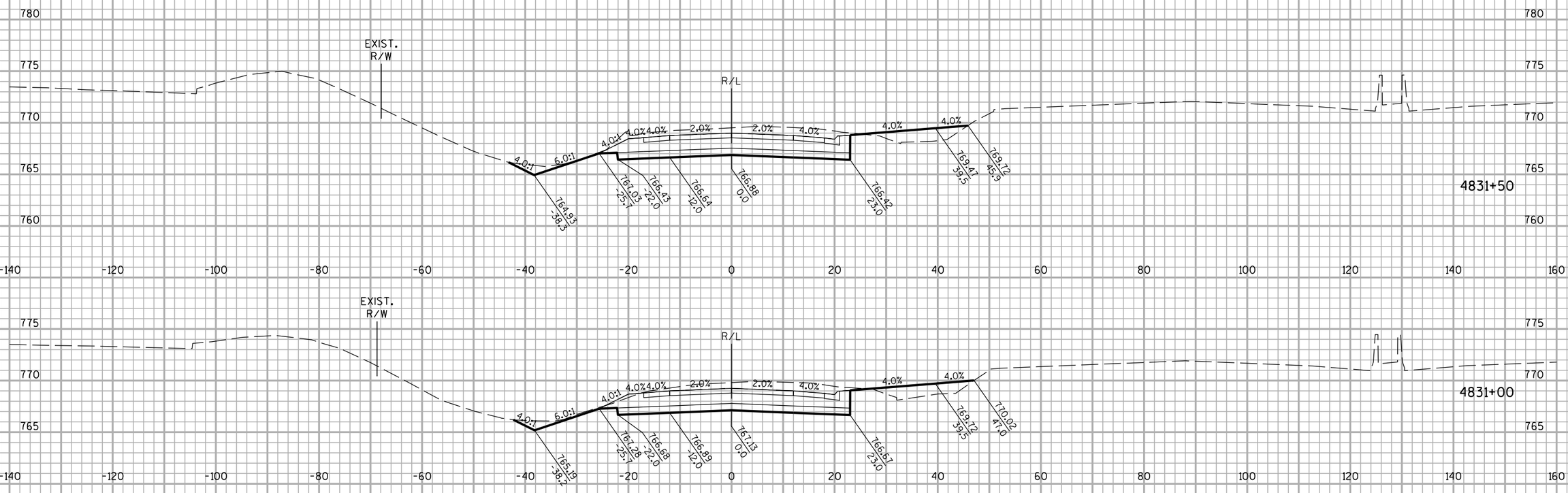
STA 4828+50 TO 4830+00

PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 223	E

FILE NAME : Z:\Racine\CADDS\14\14W\CDS\090201_xs_WFR.dgn PLOT DATE : 7/31/2017 PLOT BY : kes PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

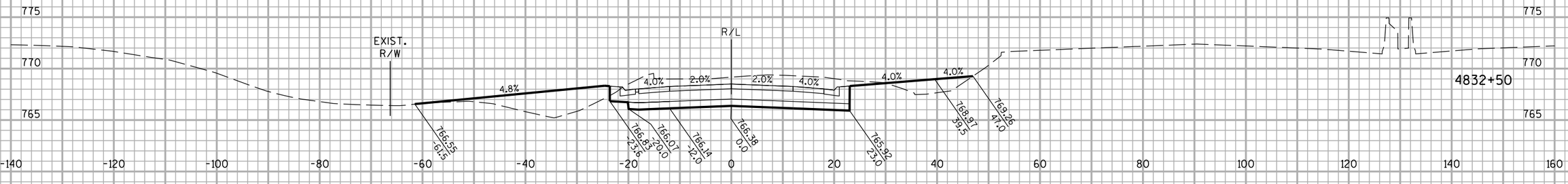


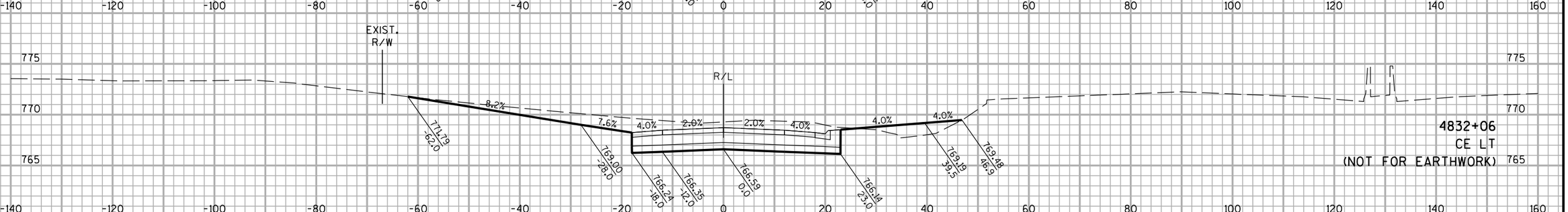
STA 4830+50 TO 4831+50

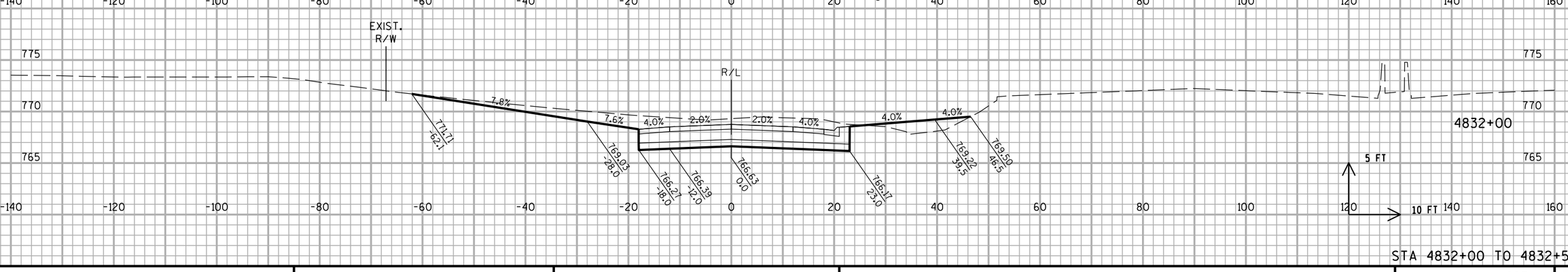
PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 224	E

FILE NAME : Z:\Racine\CADDS\14\14W\CDS\090201_xs_WFR.dgn PLOT DATE : 7/31/2017 PLOT BY : kes PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21







9

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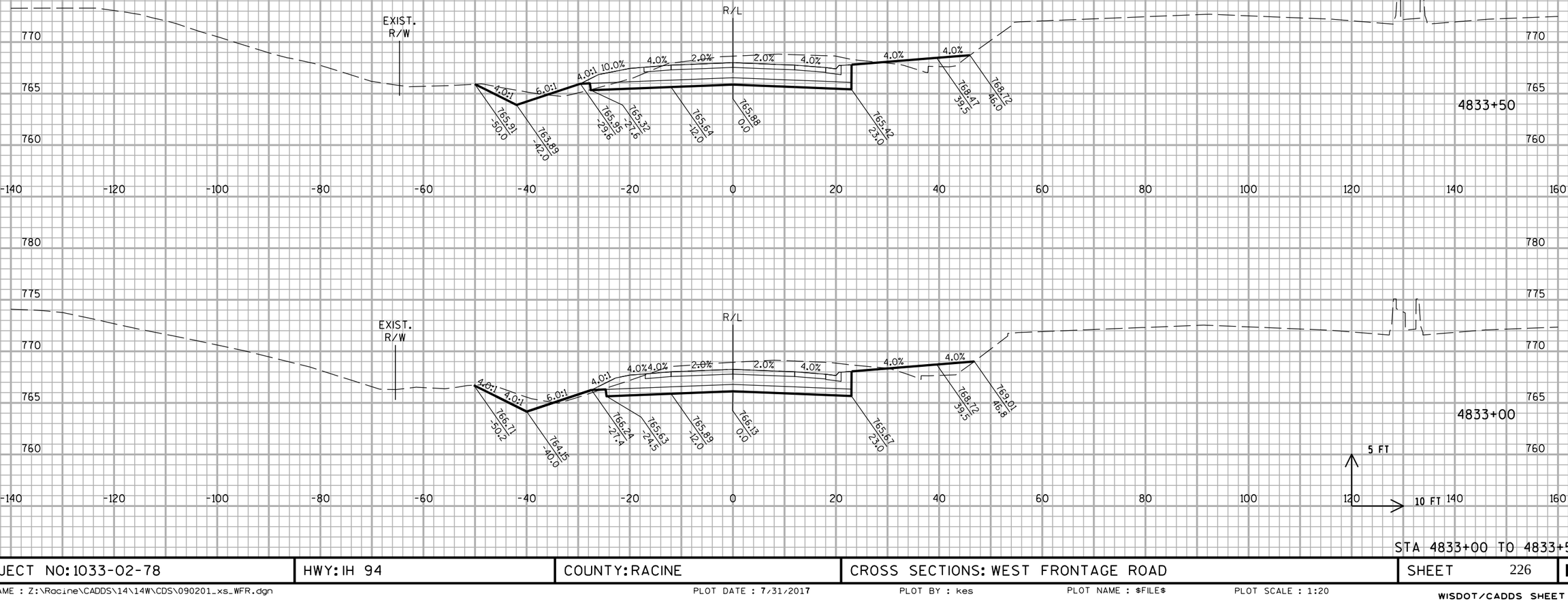
STA 4832+00 TO 4832+50

PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 225	E

FILE NAME : Z:\Racine\CADDS\14\14W\CDS\090201_xs_WFR.dgn PLOT DATE : 7/31/2017 PLOT BY : kes PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



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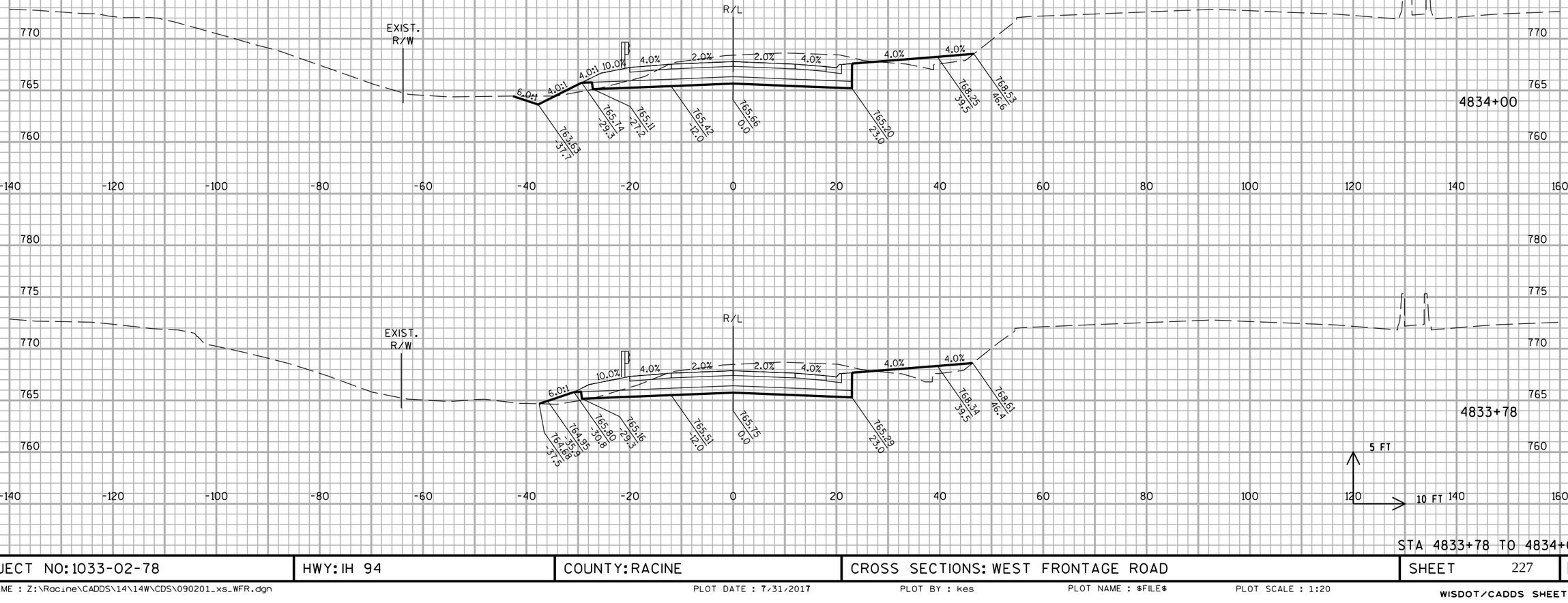
STA 4833+00 TO 4833+50

PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 226	E

FILE NAME : Z:\Racine\CADDS\14\14W\CDS\090201_xs_WFR.dgn PLOT DATE : 7/31/2017 PLOT BY : kes PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



9

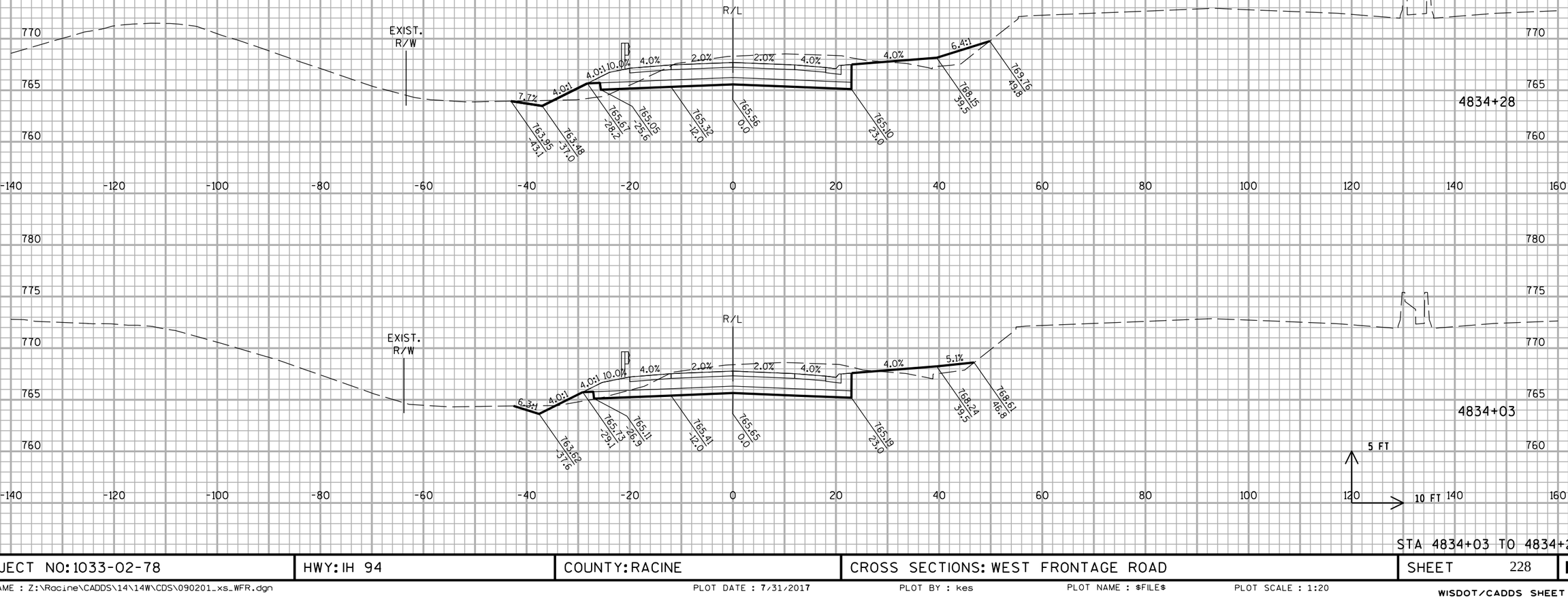
9

STA 4833+78 TO 4834+00

PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 227	E

FILE NAME : Z:\Racine\CADDS\14\14W\CDS\090201_xs_WFR.dgn PLOT DATE : 7/31/2017 PLOT BY : kes PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



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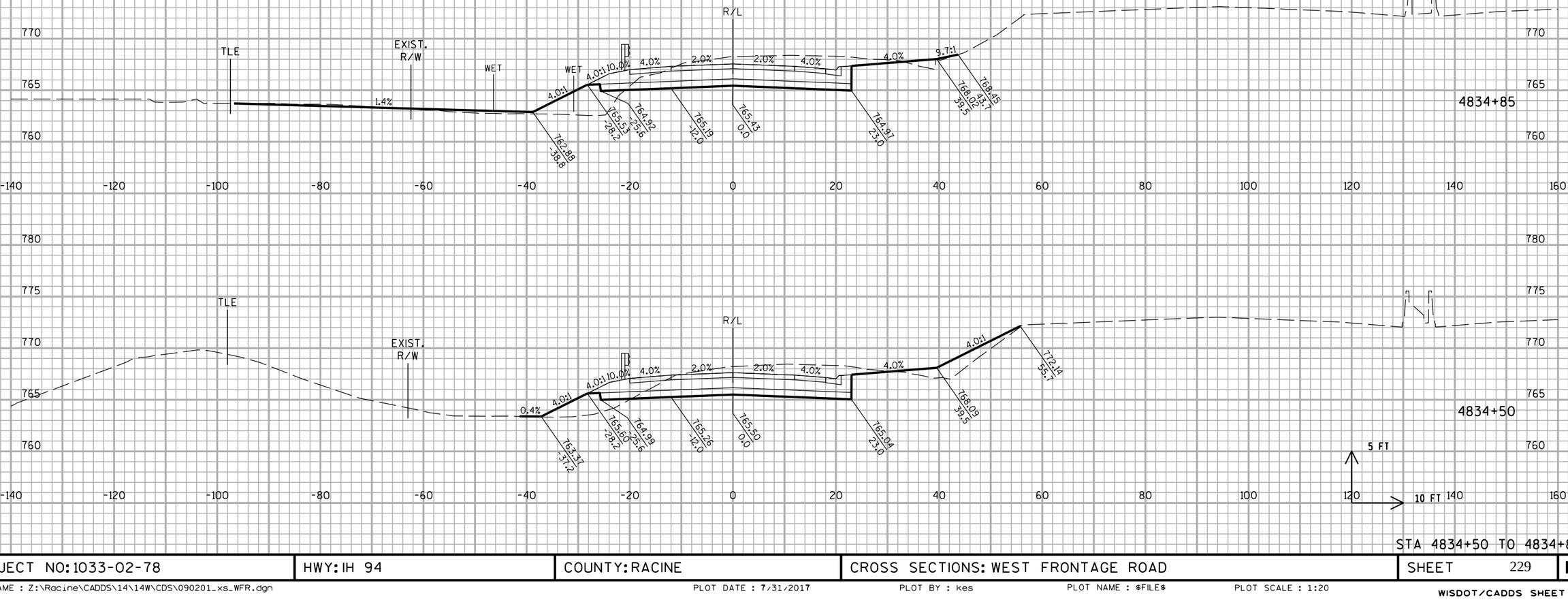
9

STA 4834+03 TO 4834+28

PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 228	E



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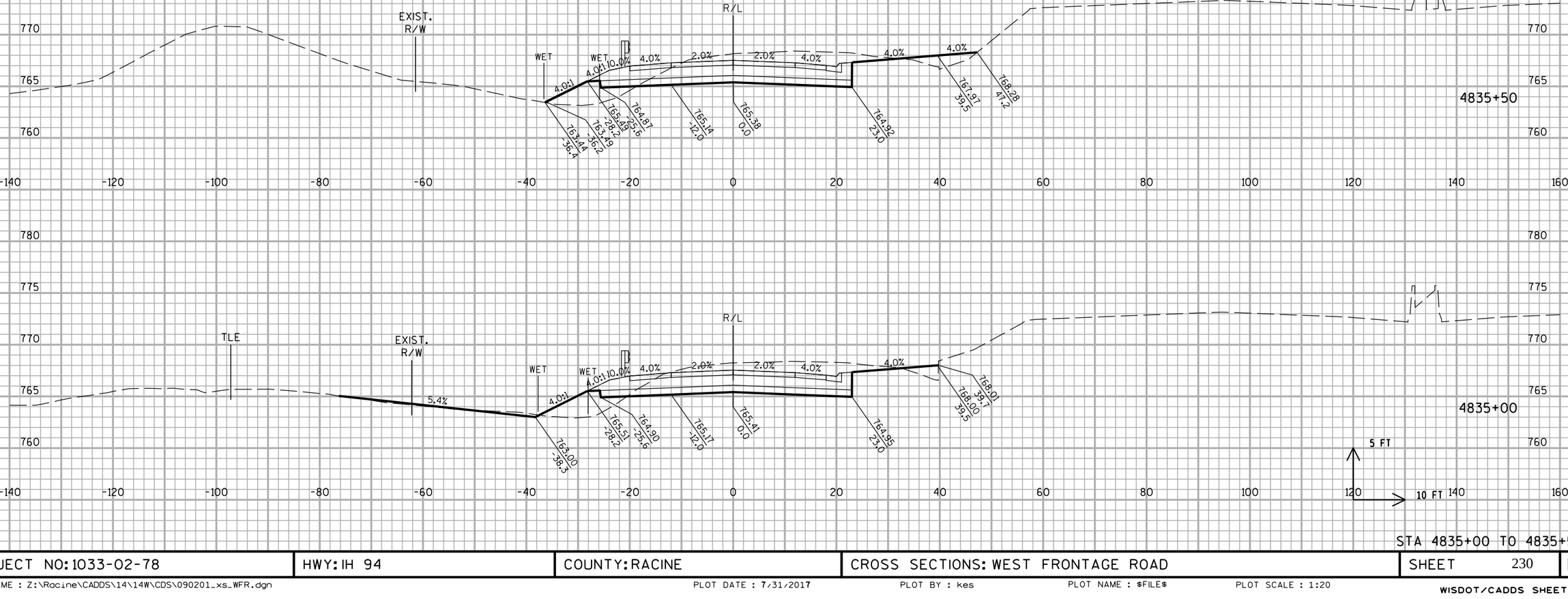
9

STA 4834+50 TO 4834+85

PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 229	E



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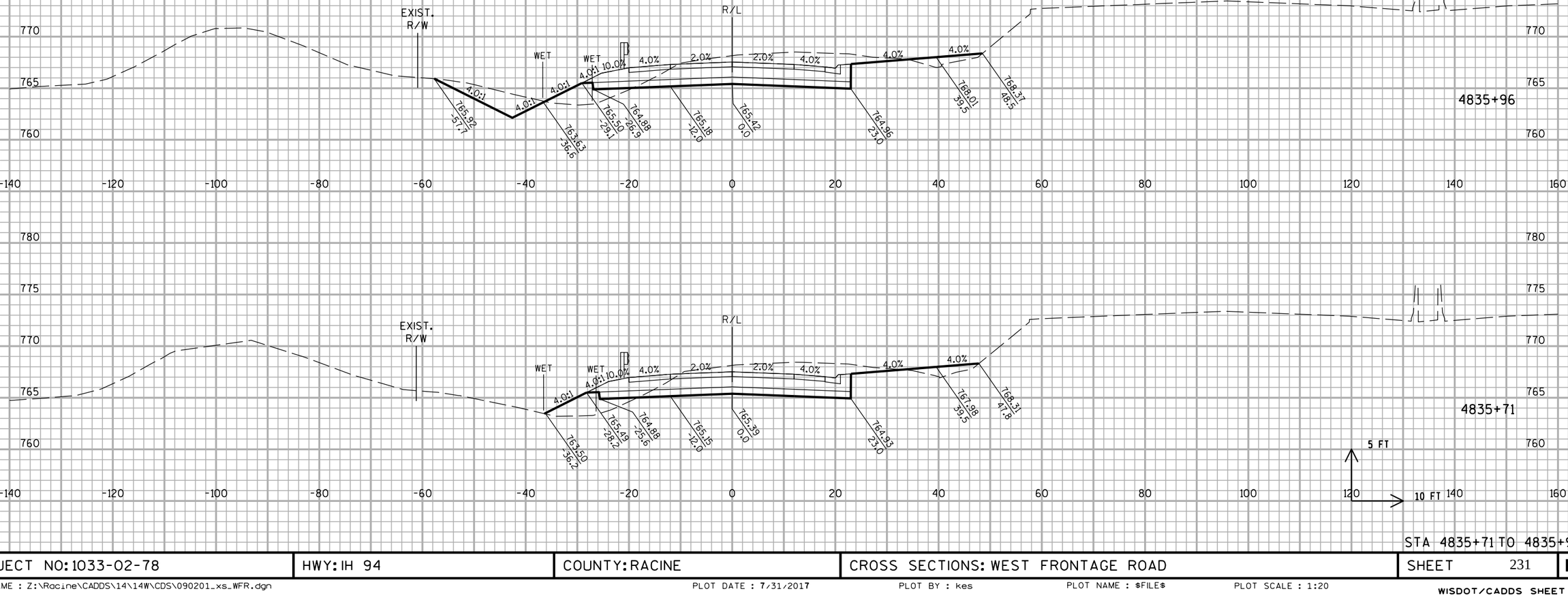
STA 4835+00 TO 4835+50

PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 230	E

FILE NAME : Z:\Racine\CADDS\14\14W\CDS\090201_xs_WFR.dgn PLOT DATE : 7/31/2017 PLOT BY : kes PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



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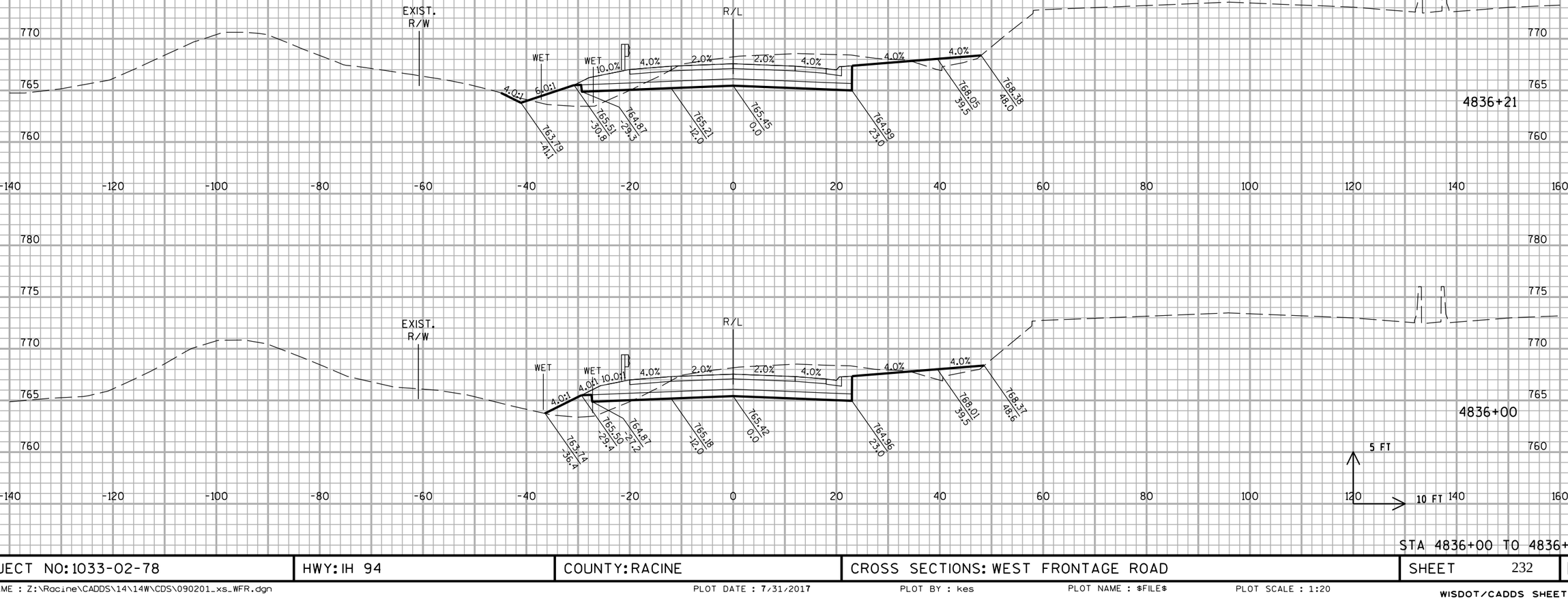
9

STA 4835+71 TO 4835+96

PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 231	E

FILE NAME : Z:\Racine\CADDS\14\14W\CDS\090201_xs_WFR.dgn
PLOT DATE : 7/31/2017
PLOT BY : kes
PLOT NAME : $FILE$
PLOT SCALE : 1:20
WISDOT/CADDS SHEET 21



9

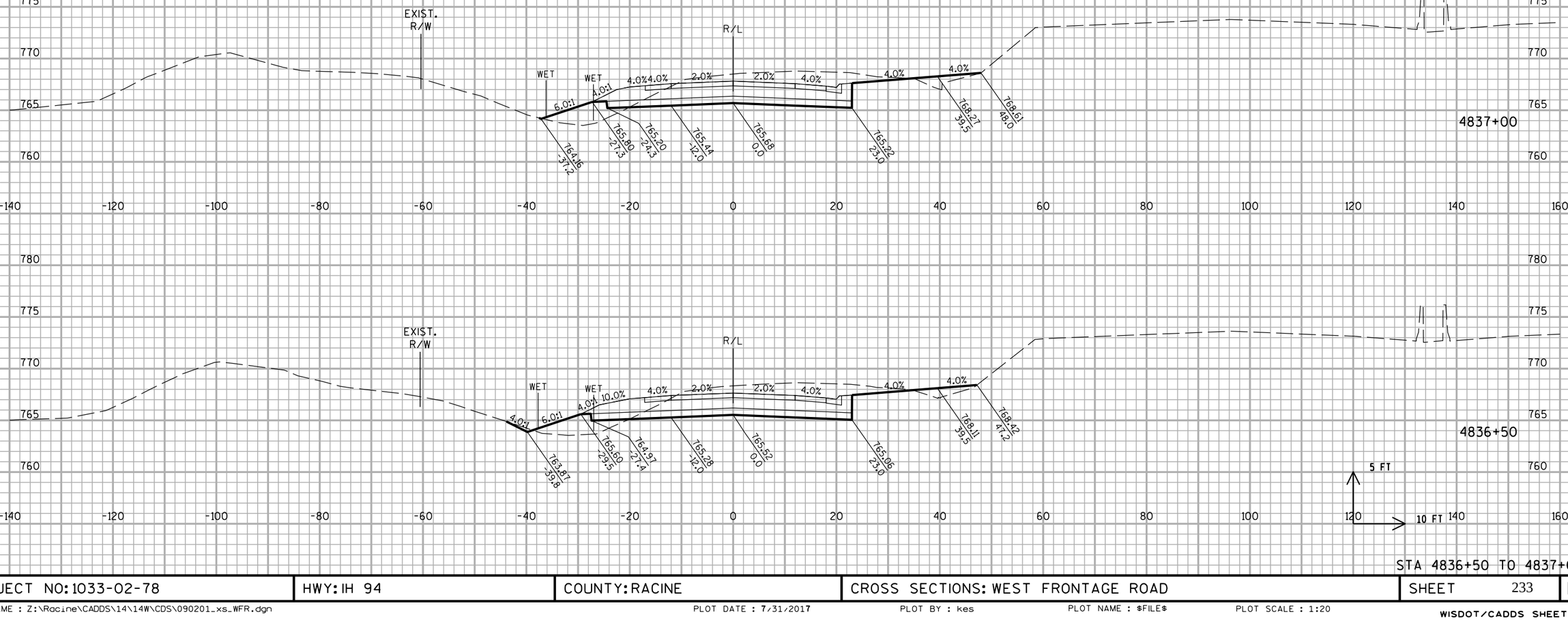
9

STA 4836+00 TO 4836+21

PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 232	E

FILE NAME : Z:\Racine\CADDS\14\14W\CDS\090201_xs_WFR.dgn PLOT DATE : 7/31/2017 PLOT BY : kes PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



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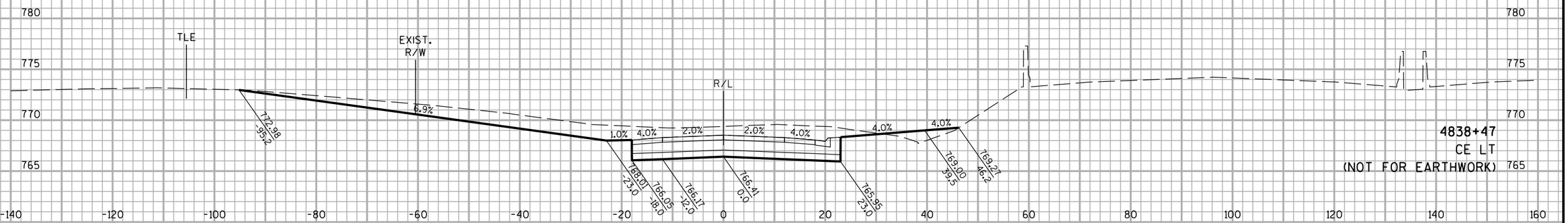
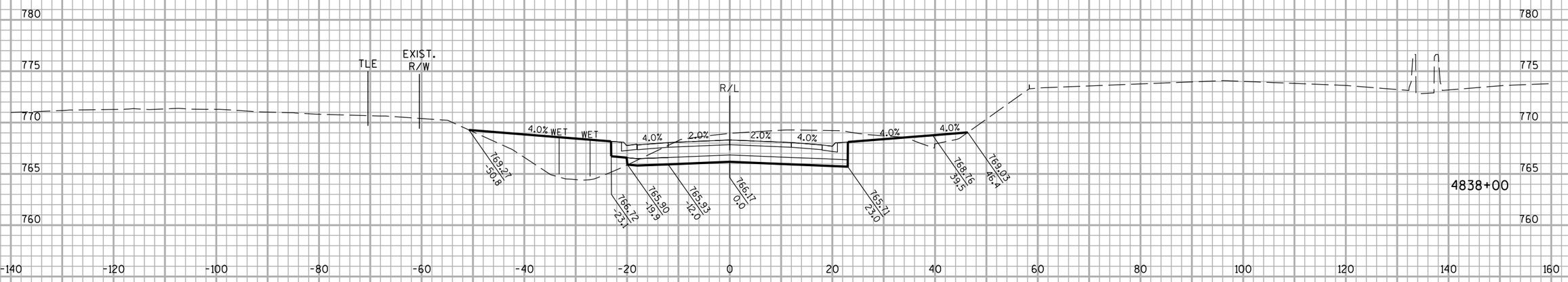
STA 4836+50 TO 4837+00

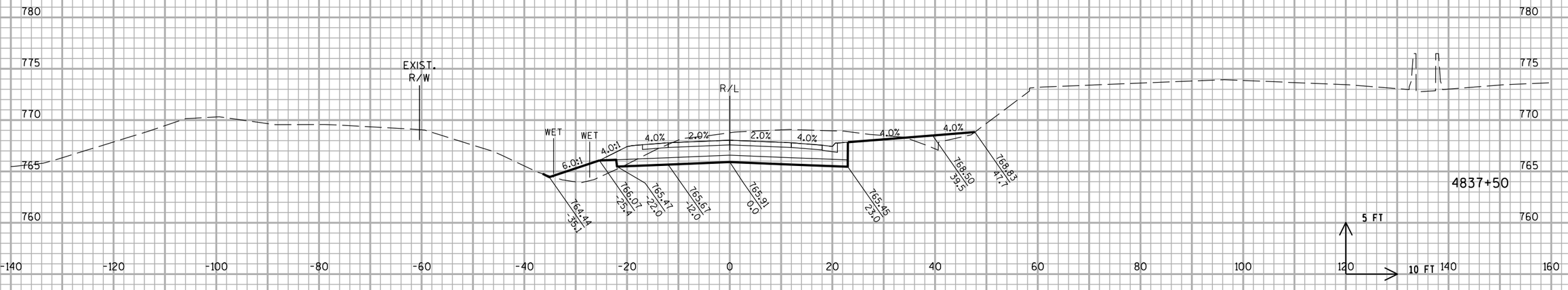
PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 233	E

FILE NAME : Z:\Racine\CADDS\14\14W\CDS\090201_xs_WFR.dgn PLOT DATE : 7/31/2017 PLOT BY : kes PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21





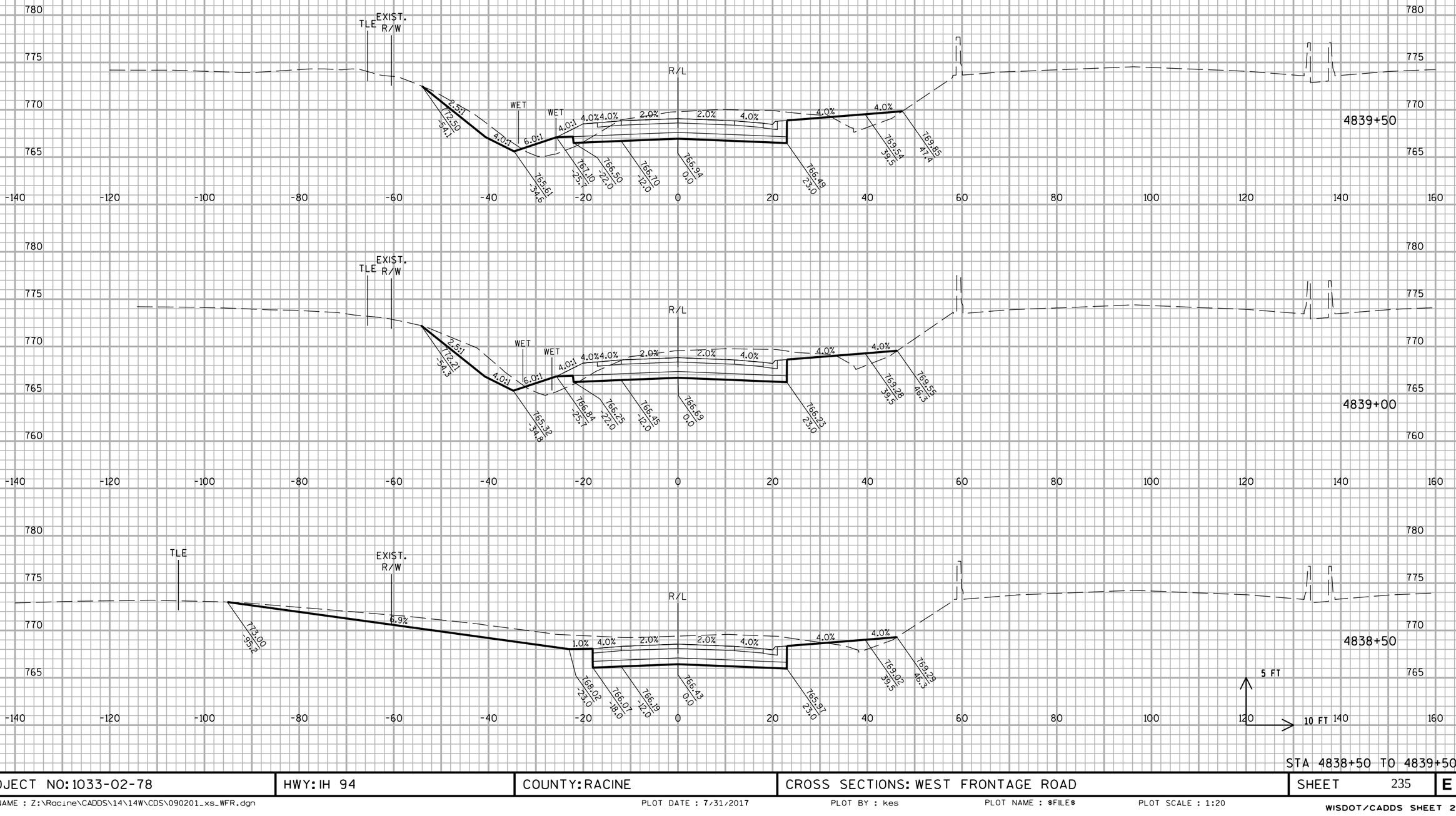


STA 4837+50 TO 4838+47

PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 234	E

FILE NAME : Z:\Racine\CADDS\14\14W\CDS\090201_xs_WFR.dgn PLOT DATE : 7/31/2017 PLOT BY : kes PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



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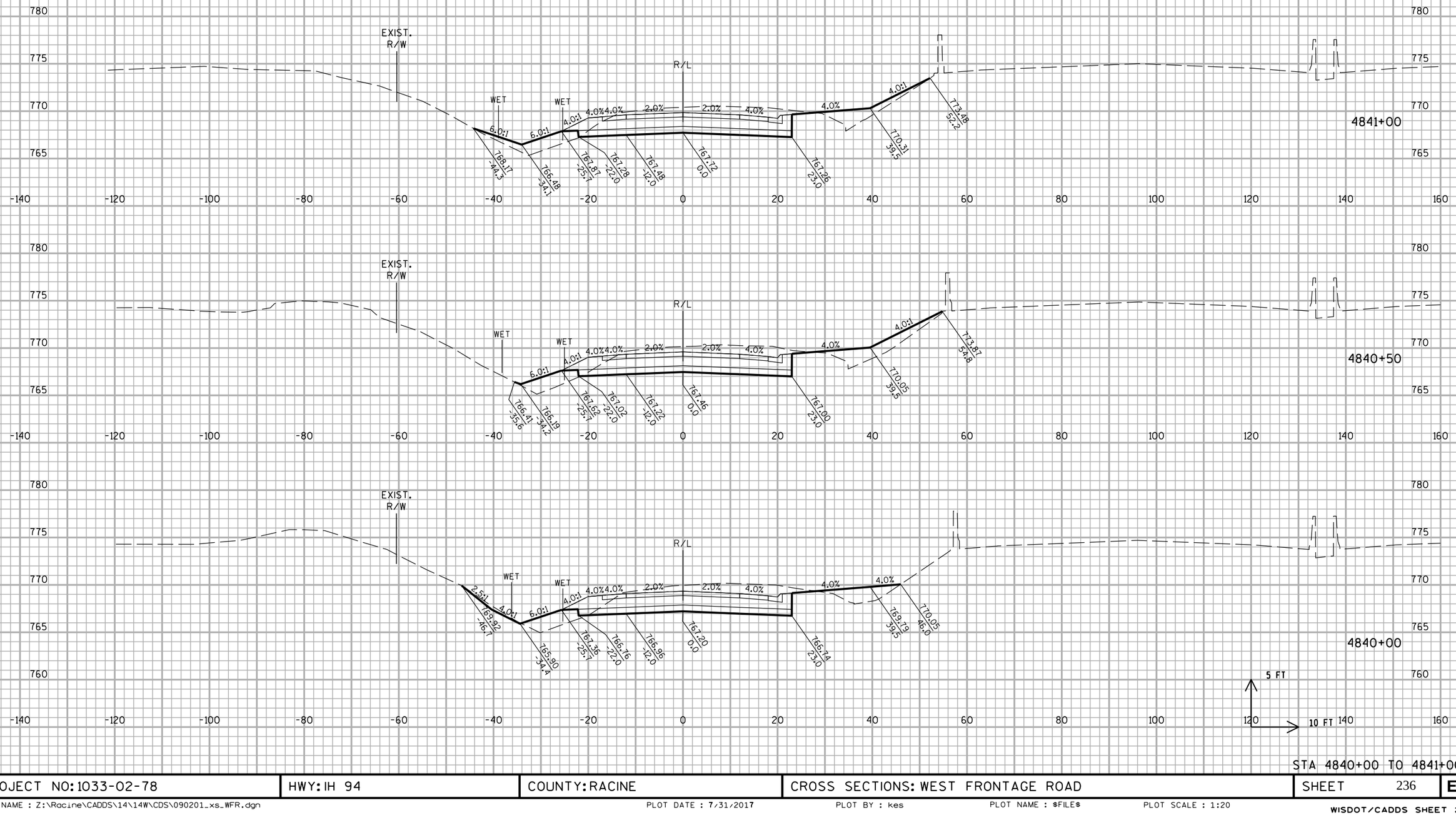
STA 4838+50 TO 4839+50

PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 235	E

FILE NAME : Z:\Racine\CADDS\14\14W\CDS\090201_xs_WFR.dgn PLOT DATE : 7/31/2017 PLOT BY : kes PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

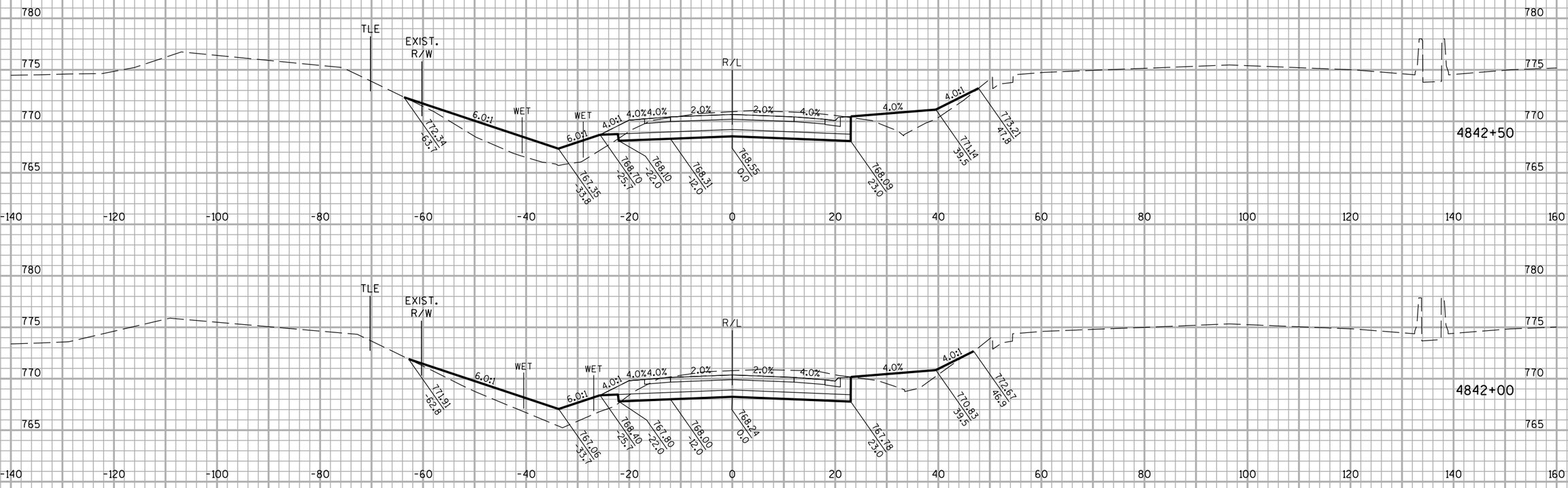


STA 4840+00 TO 4841+00

PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 236	E

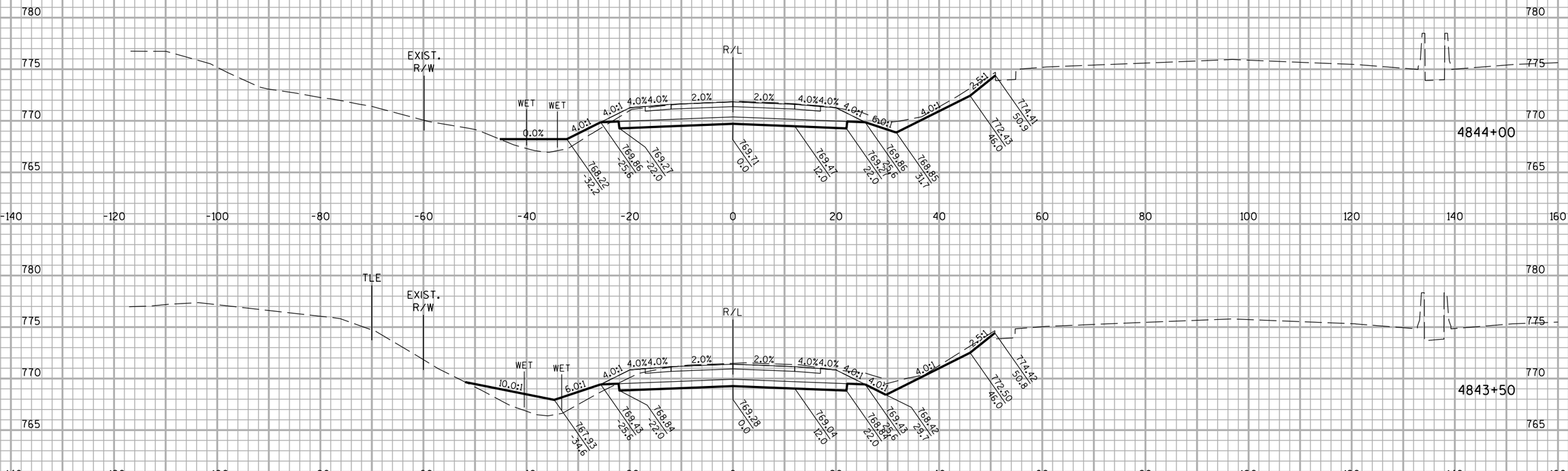
FILE NAME : Z:\Racine\CADDS\14\14W\CDS\090201_xs_WFR.dgn PLOT DATE : 7/31/2017 PLOT BY : kes PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



STA 4841+50 TO 4842+50

PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 237	E



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STA 4843+00 TO 4844+00

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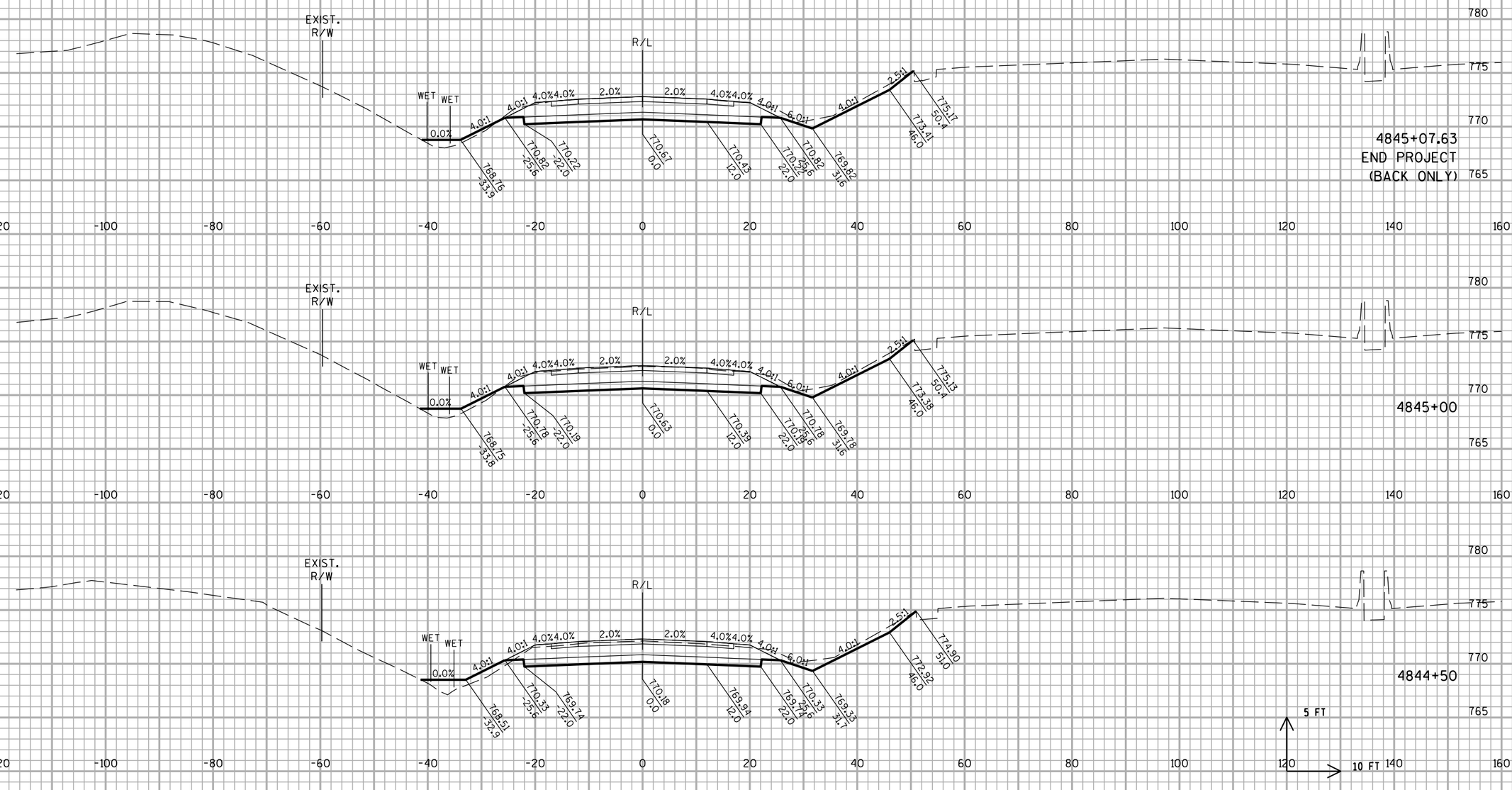
PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 238	E

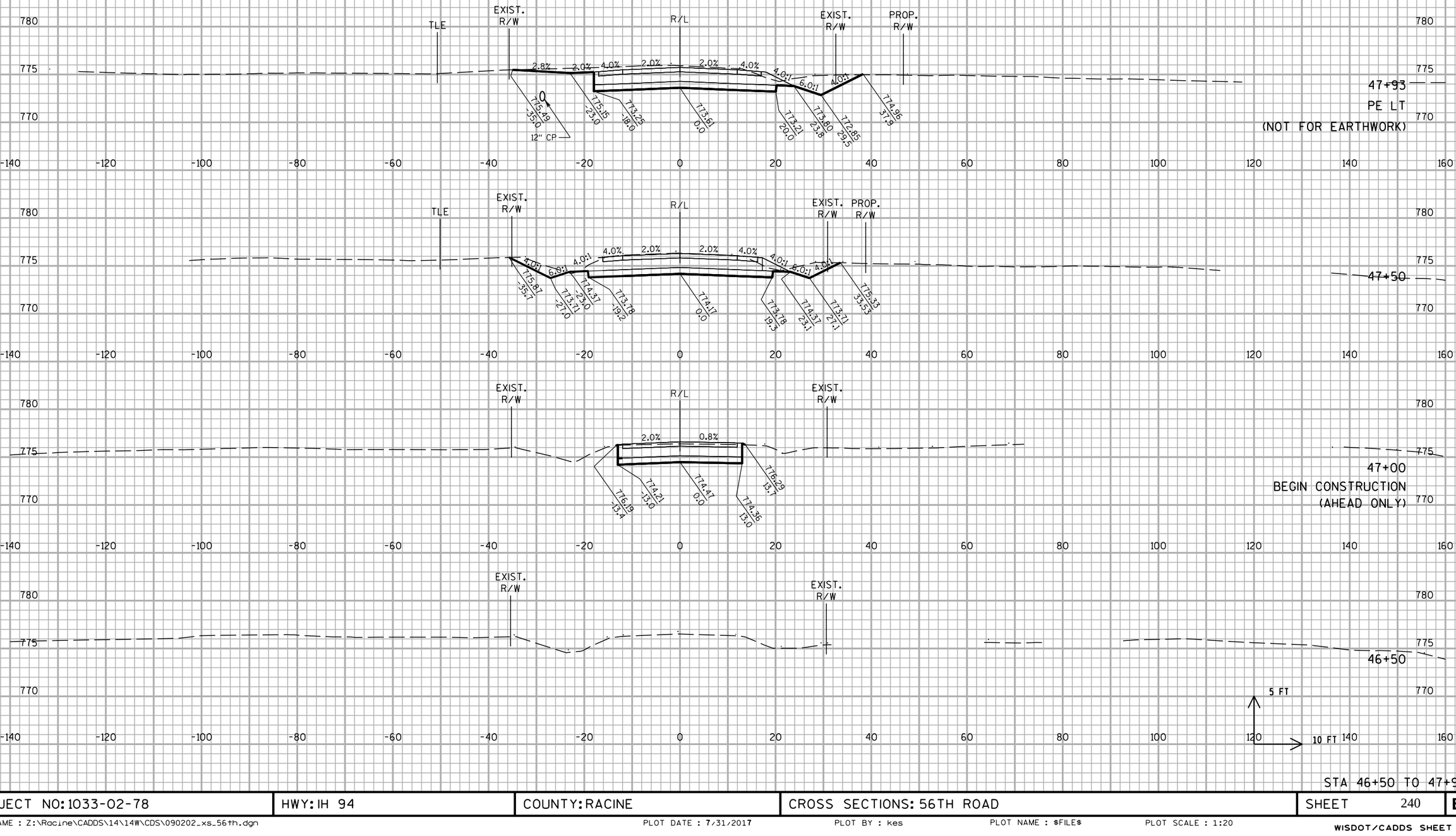
FILE NAME : Z:\Racine\CADDS\14\14W\CDS\090201_xs_WFR.dgn PLOT DATE : 7/31/2017 PLOT BY : kes PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



STA 4844+50 TO 4845+08

PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 239	E



STA 46+50 TO 47+93

PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: 56TH ROAD	SHEET 240	E

FILE NAME : Z:\Racine\CADDS\14\14W\CDS\090202_xs_56th.dgn | PLOT DATE : 7/31/2017 | PLOT BY : kes | PLOT NAME : $FILE$ | PLOT SCALE : 1:20

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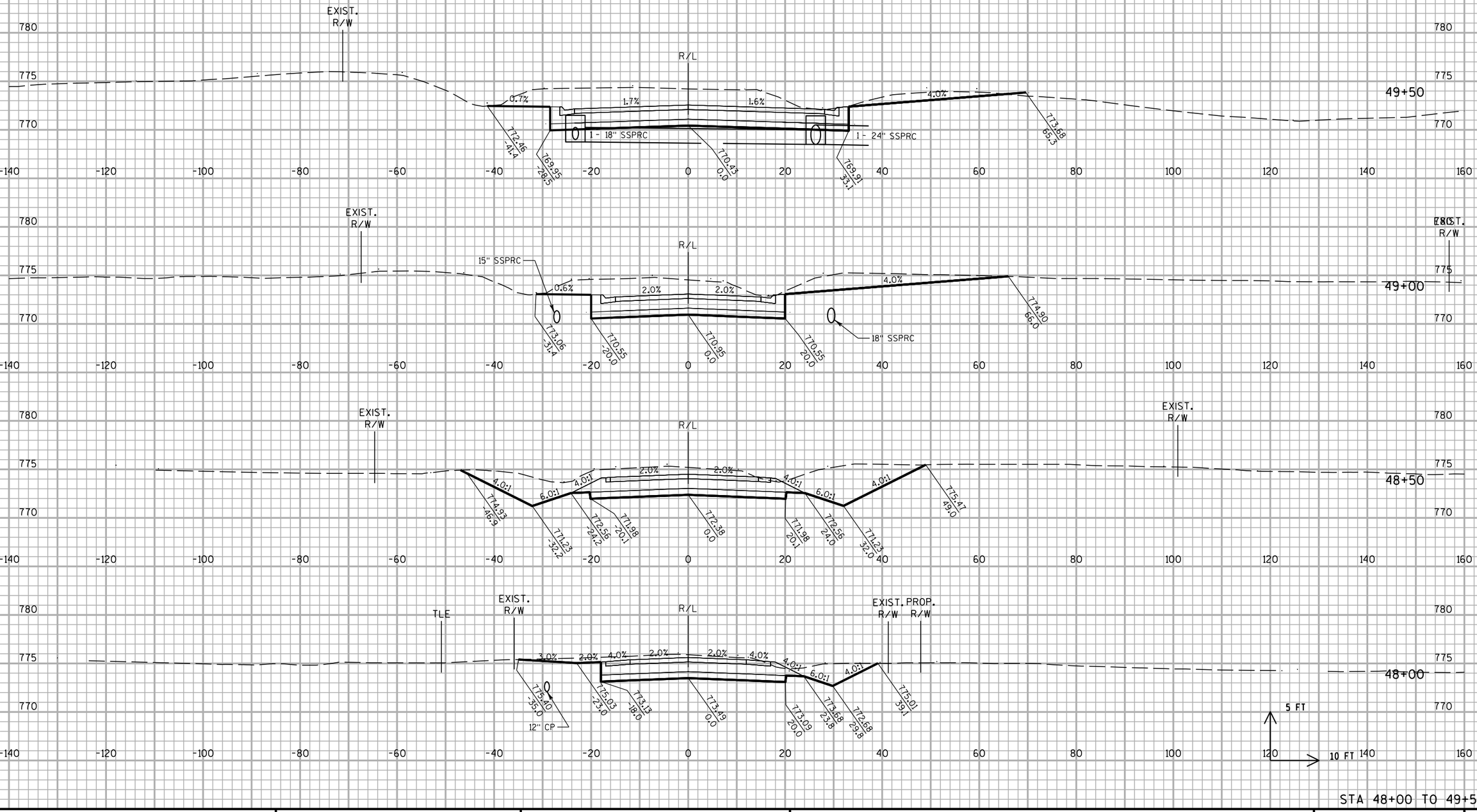

STA 48+00 TO 49+50

PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: 56TH ROAD	SHEET 241	E

FILE NAME : Z:\Racine\CADDS\14\14W\CDS\090202_xs_56th.dgn PLOT DATE : 7/31/2017 PLOT BY : kes PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

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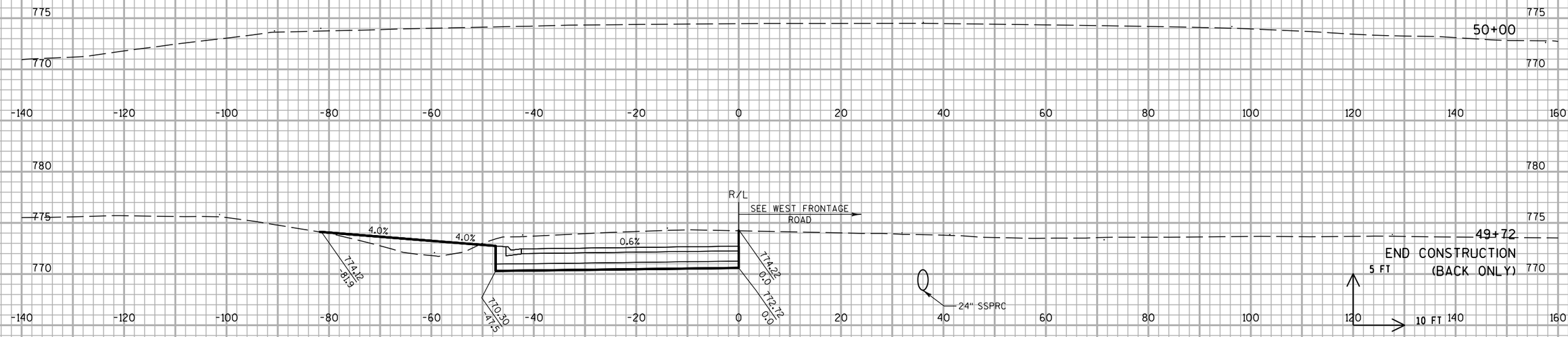

STA 49+72 TO 50+00

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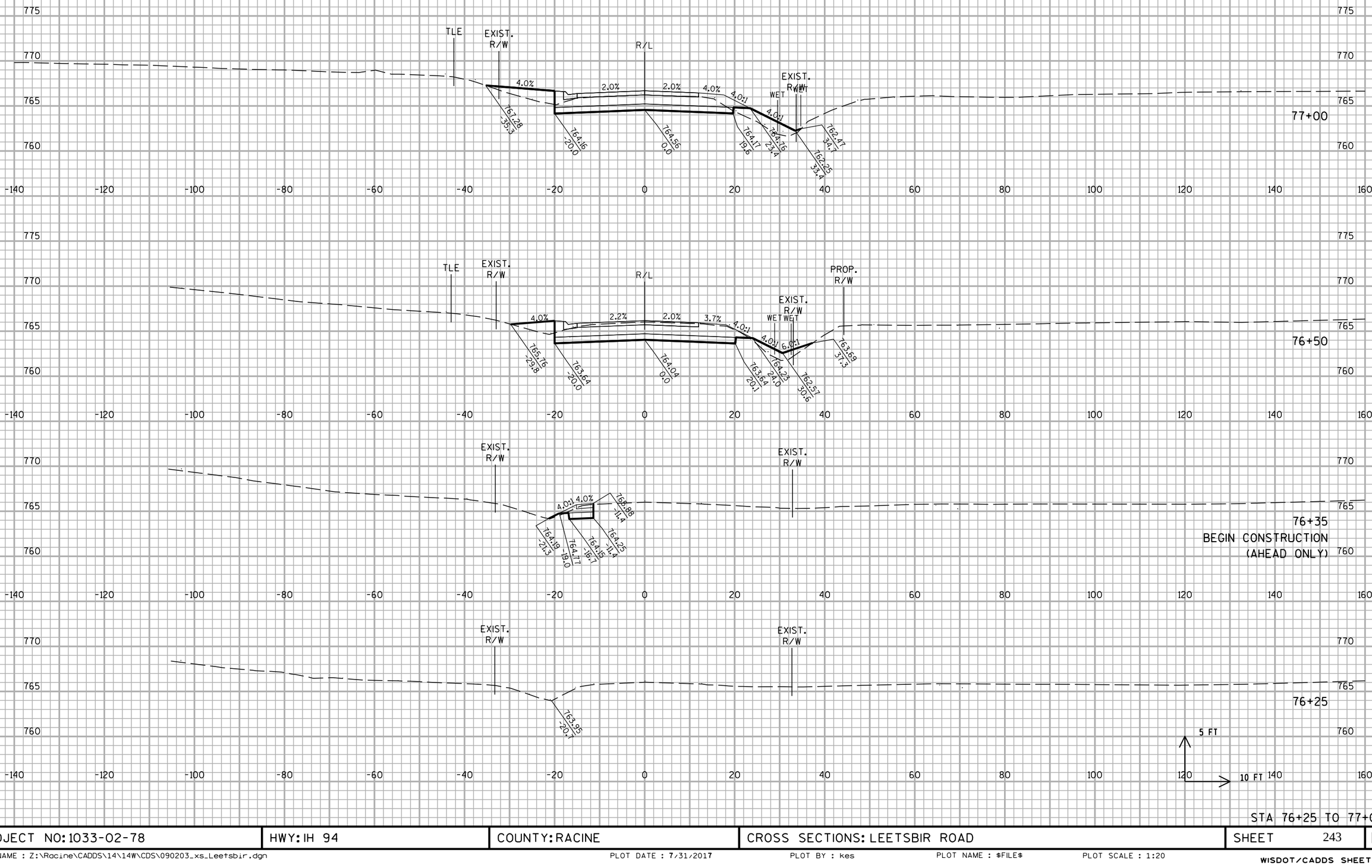
PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: 56TH ROAD	SHEET 242	E

FILE NAME : Z:\Racine\CADDS\14\14W\CDS\090202_xs_56th.dgn PLOT DATE : 7/31/2017 PLOT BY : kes PLOT NAME : $FILE$ PLOT SCALE : 1:20



STA 76+25 TO 77+00

PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: LEETSBIR ROAD	SHEET 243	E

FILE NAME : Z:\Racine\CADDS\14\14W\CDS\090203_xs_Leetsbir.dgn PLOT DATE : 7/31/2017 PLOT BY : kes PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

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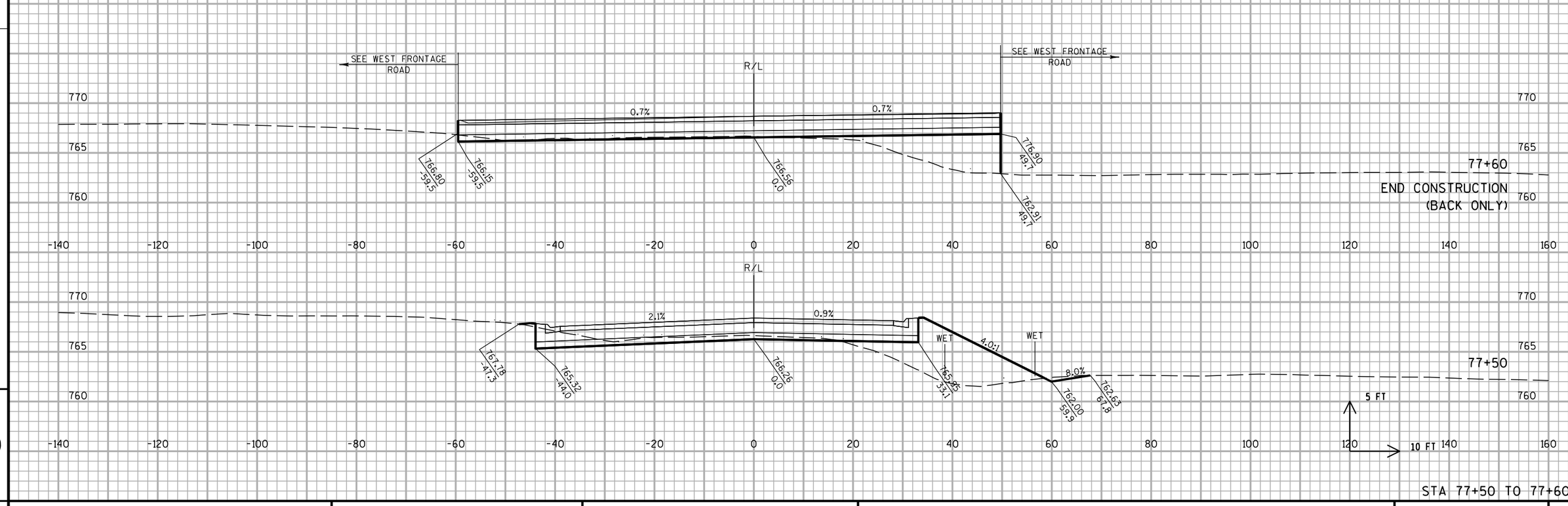
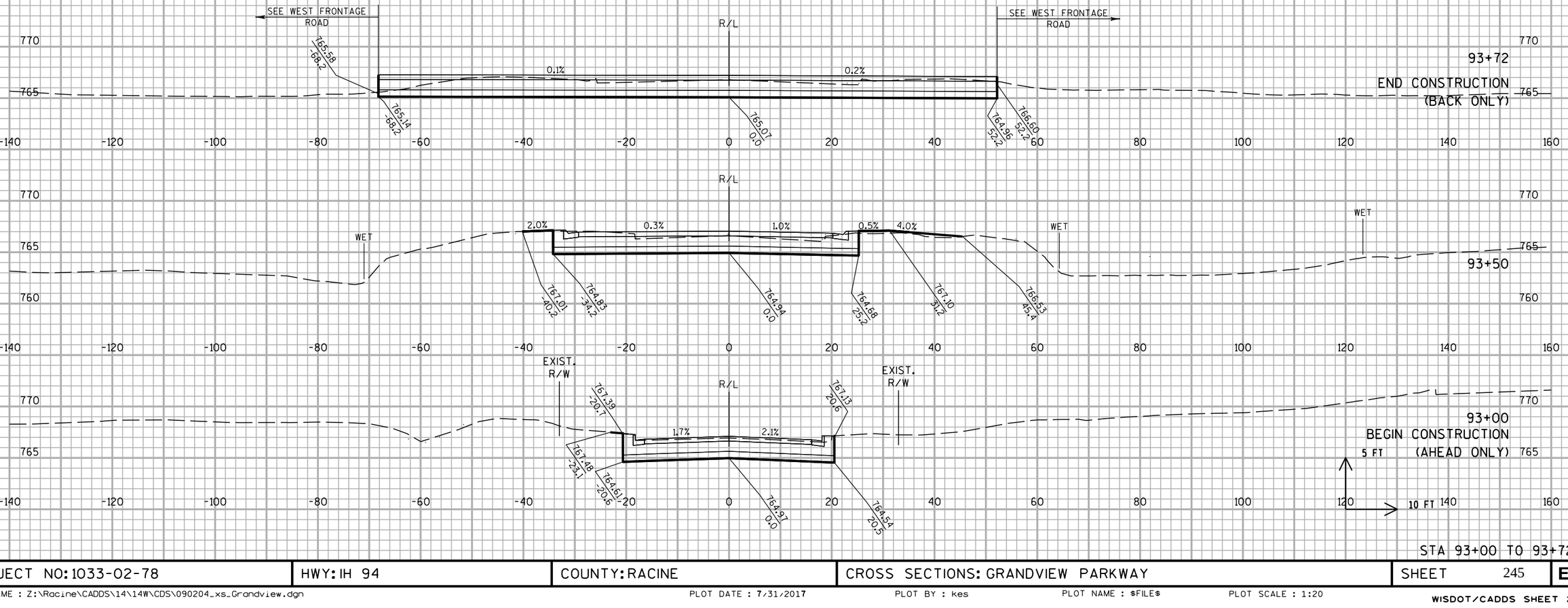


PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: LEETSBIR ROAD	SHEET 244	E

FILE NAME : Z:\Racine\CADDS\14\14W\CDS\090203_xs_Leetsbir.dgn PLOT DATE : 7/31/2017 PLOT BY : kes PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



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STA 93+00 TO 93+72

PROJECT NO: 1033-02-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: GRANDVIEW PARKWAY	SHEET 245	E

FILE NAME : Z:\Racine\CADDS\14\14W\CDS\090204_xs_Grandview.dgn PLOT DATE : 7/31/2017 PLOT BY : kes PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

Wisconsin Department of Transportation

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