AS BUILT PLAN

WKE

MAR 11

PROJECT ID: 1033-02-74

WITH:

COUNTY: RACINE

ORDER OF SHEETS

Section No.	1	Title
Section No.	2	Typical Sections and Details
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 = 236

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1033-02-74	WISC 2011092	1

N-S FREEWAY - STH 20 INTERCHANGE

WEST FRONTAGE ROAD

IH 94

RACINE COUNTY

STATE PROJECT NUMBER

1033-02-74

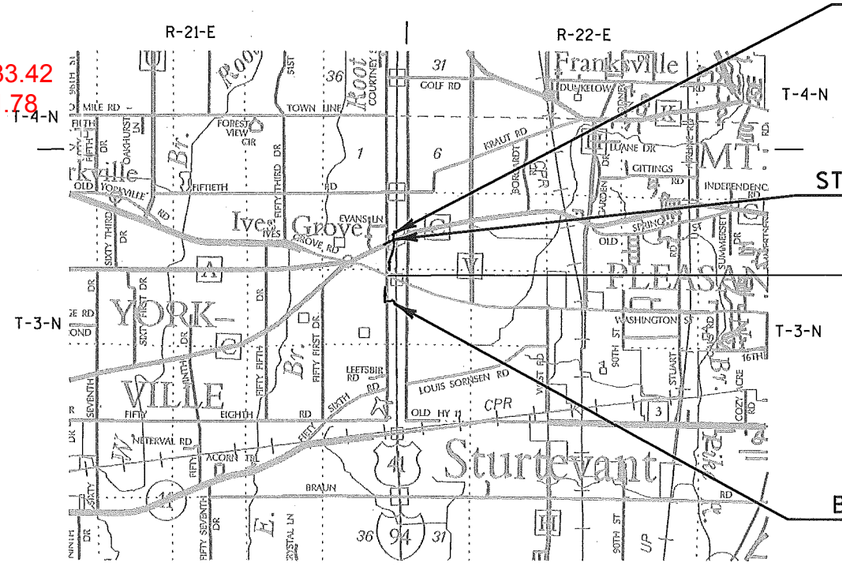
Project Manager:
Mark Klipstein (WisDOT)
Project Leader:
Jeff Reedy (Bloom Companies, LLC)
Project Personnel:
Greg Howell (Bloom Companies, LLC)
Nick Manning (Bloom Companies, LLC)
Mehran Sanati (Bloom Companies, LLC)
Badi Alsalami (Bloom Companies, LLC)
.
Date Work Started: 05/23/2011
Date Work Completed: 10/12/2012
.
Awarded Contract Amount: $4,479,033.42
Current Contract Amount: $4,742,511.78

Contractor: Mann Brothers, Inc. (Grading, Shouldering, Concrete Curb & Gutter, Concrete Pavement, Fencing, Erosion Control, Restoration)
Sub-Contractors: Bradford Contractors, LLC (Storm Sewer, Culverts, Water and Sanitary)
Andrew Services Corp (Guardrail Removal)
Payne and Dolan (Milling, Asphalt Pavement, Asphalt Flumes and Asphalt Curb)
Q3 Contracting, Inc (Traffic Control)
Nielson Madsen & Barber, S.C. (Surveying)
Century Fence (Pavement Marking)
Interstate Tree (Clearing & Grubbing)
Vista Design & Construction (Coping, Moment Slab, Parapet)



N

END PROJECT 1033-02-74
STA. 4896+88



STRUCTURE R-51-46

BEGIN PROJECT 1033-02-74
STA. 2838+77
X=593,882.17
Y=183,776.09

YORKVILLE
R-21-E

MOUNT PLEASANT
R-22-E

RACINE CO.

DESIGN DESIGNATION	CTH C	SW FRONTAGE ROAD	NW FRONTAGE ROAD
A.A.D.T. 2010 =	7,130	2010 = 9,320	2010 = 4,950
A.A.D.T. 2030 =	9,300	2030 = 11,120	2030 = 6,190
D.H.V. =	410	= 800	= 390
D.D. =	58/42	= 55/45	= 51/49
T. =	2%	= 20%	= 15%
DESIGN SPEED =	55 MPH	= 40 MPH	= 40 MPH
ESALS =	817,600	= 1,138,800	= 1,138,800

CONVENTIONAL SYMBOLS

PLAN		PROFILE	
CORPORATE LIMITS		GRADE LINE	
PROPERTY LINE		ORIGINAL GROUND	
LOT LINE		MARSH OR ROCK PROFILE (To be noted as such)	ROCK
LIMITED HIGHWAY EASEMENT		SPECIAL DITCH	LABEL
EXISTING RIGHT OF WAY		GRADE ELEVATION	95.36
PROPOSED OR NEW R/W LINE			
SLOPE INTERCEPT		CULVERT (Profile View)	
REFERENCE LINE		UTILITIES	
EXISTING CULVERT		ELECTRIC	E
PROPOSED CULVERT (Box or Pipe)		FIBER OPTIC	FO
COMBUSTIBLE FLUIDS	CAUTION	GAS	G
		SANITARY SEWER	SAN
MARSH AREA		STORM SEWER	SS
		TELEPHONE	T
WOODED OR SHRUB AREA		WATER	W
		UTILITY PEDESTAL	
		POWER POLE	
		TELEPHONE POLE	

LAYOUT
SCALE 0 1.0 MI.

TOTAL NET LENGTH OF CENTERLINE = 1.120 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)).

Milwaukee Transportation Partners LLC

ORIGINAL PLANS PREPARED BY
MILWAUKEE, WISCONSIN

WISCONSIN
ANDREA M. MASTERS
38385
RACINE, WI
PROFESSIONAL ENGINEER

8/2/2010 (Date) (Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	WISDOT
Designer	MTP
Project Manager	JOSHUA LEVEQUE
District Examiner	
District Supervisor	WAFA ELOAQ
C.O. Examiner	Carl Wanamaker

APPROVED FOR DISTRICT OFFICE
DATE: 8/2/10 (Signature)

E

UTILITY CONTACTS

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

Toll Free (800) 242-8511
Milwaukee Area 811
Hearing Impaired TDD (800) 542-2289
www.DiggersHotline.com

AT&T CORPORATION
MR. RICH SHRANK
AT&T CORPORATION
W277 S4747 SAYLESVILLE RD
WAUKESHA, WI 53189
PHONE: (262) 547-6729
schrank@att.com

AT&T WISCONSIN
MIKE TOYEK
AT&T WISCONSIN
411 7TH STREET
RACINE, WI 53403
PHONE: (262) 636-0549
mt1734@att.com

LEVEL 3 COMMUNICATIONS, LLC
MR. MARK DECHANT
LEVEL 3 COMMUNICATIONS, LLC
1025 ELDORADO BOULEVARD – 33A526
BROOMFIELD, CO 80021
PHONE: (414) 271-1128
CELL: (414) 426-1875
mark.dechant@level3.com

TDS METROCOM
MR.MICHAEL JOHHNSON
TDS METROCOM
20875 CROSSROADS CIRCLE, SUITE 800
WAUKESHA, WI 53186
PHONE: (262) 754-3052
CELL: (262) 939-6355
michael.johnson@tdstelecom.com

TIME WARNER CABLE
MR. ROBERT DETERT
TIME WARNER CABLE
1320 N. MARTIN LUTHER KING JR. DRIVE
MILWAUKEE, WI 53212
PHONE: (414) 277-4280
CELL: (414) 688 0348
FAX: (414) 277-0638
robert.detert@twcable.com

TOWN OF YORKVILLE
MS. JUDY AIMONE, CLERK/TREASURER
925 MAIN STREET
PO BOX 15
UNION GROVE, WI 53182
PHONE: (262) 878-2123
FAX: (262) 878-1680
judy@townofyorkville.com

WE ENERGIES (ELECTRIC)
SEND ALL CORRESPONDENCE TO:
MR. DAN SANDE
333 W. EVERETT STREET - A299
MILWAUKEE, WI 53203
PHONE: (414) 221-4578
FAX: (414) 221-2336
dan.sande@we-energies.com

CONSTRUCTION FIELD CONTACT:
MR. LEO SCHUELLER
500 S. 116TH STREET
WEST ALLIS, WI 53214
PHONE: (414) 944-5511
CELL: (414) 588-5878
leo.schueller@we-energies.com

WE ENERGIES (GAS)
SEND ALL CORRESPONDENCE TO:
MR. DAN SANDE
333 W. EVERETT STREET - A299
MILWAUKEE, WI 53203
PHONE: (414) 221-4578
FAX: (414) 221-2336
dan.sande@we-energies.com

CONSTRUCTION FIELD CONTACT:
MR. LEO SCHUELLER
500 S. 116TH STREET
WEST ALLIS, WI 53214
PHONE: (414) 944-5511
CELL: (414) 588-5878
leo.schueller@we-energies.com

WISDOT STOC
MR. DONALD SCHELL
WISDOT TOC
633 W WISCONSIN AVE 1200
MILWAUKEE, WI 53203
PHONE: (414) 227-2148
donald.schell@dot.wi.gov

WISDOT STORM SEWER
MR. DAVE ZEMAN
WISDOT STORM SEWER
10190 W WATERTOWN RD
WAUWATOSA, WI 53226
PHONE: (414) 257-6567
dave.zeman@dot.wi.gov

OTHER AGENCIES

WISCONSIN DEPARTMENT OF NATURAL RESOURCES
SHELLEY WARWICK, WATER RESOURCES MANAGEMENT SPECIALIST
141 NW BARSTOW ST. ROOM 180
WAUKESHA, WI 53188
PHONE: (414) 550-4274
shelley.warwick@wisconsin.gov

WisDOT UTILITY COORDINATOR
RABI BISTA
WisDOT SE FREEWAYS UTILITY COORDINATOR
141 NW BARSTOW ST.
WAUKESHA, WI 53187-0798
PHONE: (414) 750-7224
Rabi.bista@dot.wi.gov

RACINE COUNTY DPW
MR. JEFFREY KATZ, COUNTY ENGINEER
RACINE COUNTY DPW
14200 WASHINGTON AVENUE
STURTEVANT, WI 53177
PHONE: (262) 886-8440
FAX: (262) 886-8480
jeff.katz@goracine.org

ORDER OF SECTION 2 DETAIL SHEETS

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
PLAN DETAILS
EROSION CONTROL
STORM SEWER
EXISTING SIGNING
PERMANENT SIGNING
PAVEMENT MARKING
TRAFFIC CONTROL
STAGE CONSTRUCTION
DETOURS
FENCING PLANS
ALIGNMENT LAYOUT

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 AND PAID FOR AS INCIDENTAL TO THE ABANDON OR REMOVAL ITEM.

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.

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 SPECIFICATIONS.

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

THE QUANTITY OF SALVAGED TOPSOIL IS COMPUTED FROM MEASUREMENTS BETWEEN THE SUBGRADE SHOULDER POINTS AND THE SLOPE INTERCEPTS AS SHOWN ON THE CROSS SECTIONS PLUS 5 FEET FOR ROUNDING.

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.

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.

TEMPORARY STORAGE OF ANY EXCAVATED MATERIAL WILL NOT BE PERMITTED IN WETLANDS.

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.

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

REMOVAL OF EROSION CONTROL DEVICES IS INCLUDED IN THE COST OF THEIR RESPECTIVE BID ITEMS.

THE EROSION CONTROL FEATURES AS SHOWN IN THE PLANS ARE AT SUGGESTED LOCATIONS. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.

DISTURBED AREAS WITHIN THE RIGHT OF WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, SHALL BE TOPSOILED, FERTILIZED, MULCHED AND SEEDED AS DIRECTED BY THE ENGINEER.

INLET PROTECTION IS REQUIRED AT ALL INLETS AS PER DETAIL OR AS DIRECTED BY THE ENGINEER.

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

HMA PAVEMENT AND CONCRETE DRIVEWAYS AND/OR PARKING LOTS SHALL BE SAWCUT AT THE MATCHLINE AS SHOWN ON THE PAVING DETAILS OR AS DIRECTED BY THE ENGINEER.

-A CONVERSION FACTOR OF 1.8 TONS/CY IS USED TO ESTIMATE QUANTITIES FOR SELECT CRUSHED MATERIAL AND PIT RUN.

-A CONVERSION FACTOR OF 2.10 TONS/CY IS USED TO ESTIMATE QUANTITIES FOR BASE AGGREGATE DENSE.

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

EXISTING PIPE CULVERT SIZES AND CONCRETE BOX CULVERT SIZES SHOWN ARE APPROXIMATE AND CONTRACTOR WILL BASE BID ON THE ACTUAL FIELD CONDITIONS.

HMA PAVEMENT, TEMPORARY SHALL BE CONSTRUCTED IN A SINGLE LAYER.

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

TOTAL LAYER PAVEMENT THICKNESS	LAYERS	NOMINAL MAXIMUM SIZE GRADATION	ASPHALTIC MATERIAL
7"	2" UPPER LAYER	12.5 MM	PG64-28
	2 1/2" UPPER-LOWER LAYER	19.0 MM	PG64-22
	2 1/2" LOWER-LOWER LAYER	19.0 MM	PG64-22

ALL EXISTING STREET NAME SIGNS WILL BE REMOVED AND REPLACED BY THE TOWN OF YORKVILLE.

COORDINATE WITH THE RACINE COUNTY PLANNING AND DEVELOPMENT DIRECTOR, JULIE ANDERSON, AT 262-886-8470 TO PERPETUATE SECTION CORNERS 10 DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION OPERATIONS.

STANDARD ABBREVIATIONS

AEW	APRON END WALL
AGG	AGGREGATE
BAD	BASE AGGREGATE DENSE
BM	BENCH MARK
C&G	CURB AND GUTTER
C/L OR	CENTER OR CONSTUCTION LINE
CONC	CONCRETE
CP	CULVERT PIPE
CPCM	CULVERT PIPE CORRUGATED METAL
CPCS	CULVERT PIPE CORRUGATED STEEL
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
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
PI	POINT OF INTERSECTION
PLE	PERMANENT LIMITED EASMENT
PT	POINT OF TANGENT
R	RADIUS OF CURVE
R/L	REFERENCE LINE
R/W	RIGHT OF WAY
RC	REVERSE CROWN
RCAEW	APRON ENDWALL FOR CULVERT PIPE REINFORCE CONCRETE
REQD	REQUIRED
RHF	RIGHT HAND FORWARD
RO	RUN OFF LENGTH
RRSP	RAILROAD SPIKE
RT	RIGHT
SALV	SALVAGED
SB	SOUTHBOUND
SDD	STANDARD DETAIL DRAWING
SE	SUPER ELEVATION
SF	SQUARE FOOT
STA	STATION
SY	SQUARE YARD
T	TANGENT LENGTH
TLE	TEMPORARY LIMITED EASEMENT
VCL	VERTICAL CURVE LENGTH
VPC	POINT OF VERTICAL CURVE
VPI	POINT OF VERTICAL INTERSECTION
VPT	POINT OF VERTICAL TANGENT

2

2

N

STATION EQUATION
STA 2865+23.97 BK=
STA 4864+22.42 AH

CONSTRUCTION LIMITS
STA 2857+00.00

GRANDVIEW PARKWAY

BEGIN PROJECT
STA 2838+77.00

WEST FRONTAGE ROAD

CONSTRUCTION LIMITS
STA 4868+00.00

CONSTRUCTION LIMITS
STA 57+45.00

CONSTRUCTION LIMITS
STA 65+95.00

R-51-46

END PROJECT
STA 4896+88.00

TOWN OF
YORKVILLE

VILLAGE OF
MOUNT PLEASANT

STH 20

CTH C

IH 94

RAMP SW

RAMP NW

RAMP SE

RAMP NE

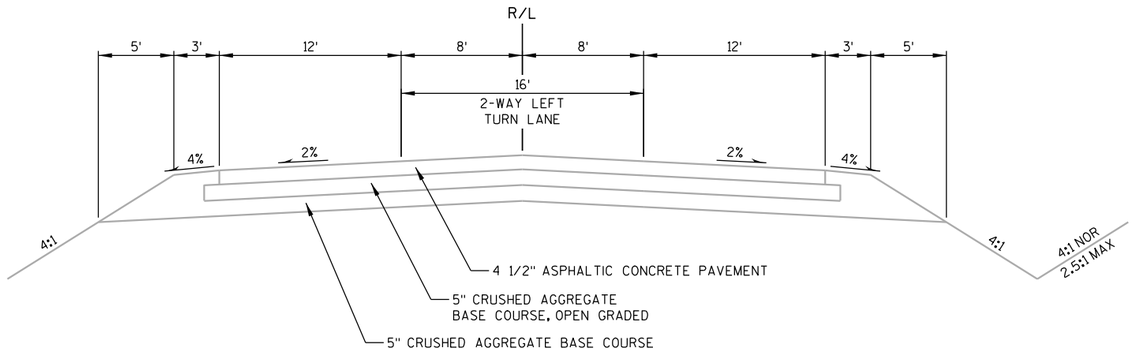
EAST FRONTAGE ROAD

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	PROJECT OVERVIEW	SHEET 4	E

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WISDOT/CADDS SHEET 42

2



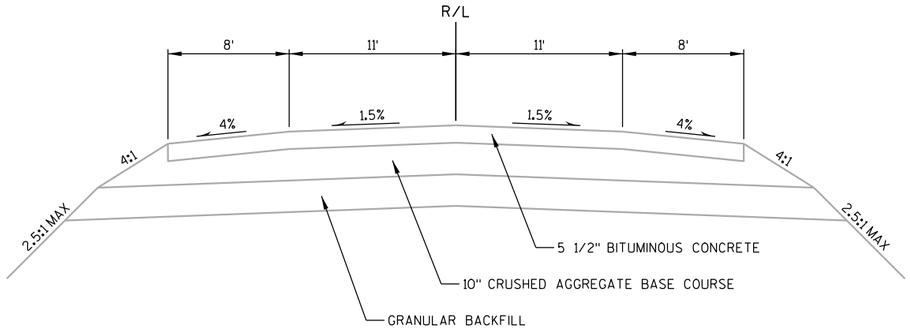
TYPICAL EXISTING SECTION

WEST FRONTAGE ROAD

STA 2838+77 TO STA 2857+00
STA 4868+00 TO STA 4885+00

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	TYPICAL SECTIONS	SHEET 5	E

2

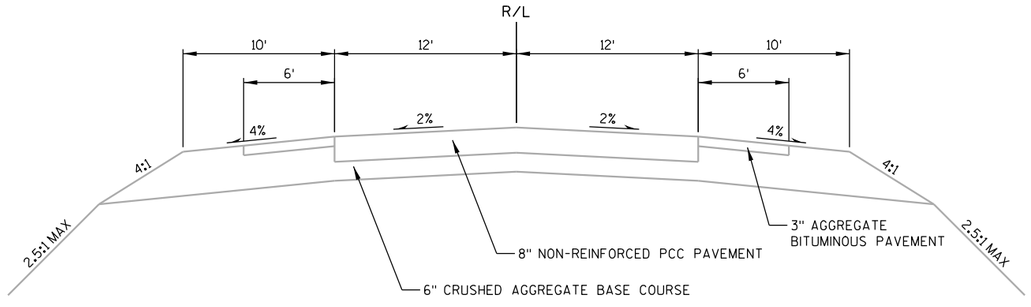


TYPICAL EXISTING SECTION

WEST FRONTAGE ROAD

AT CTH C

STA 4885+00 TO STA 4896+88



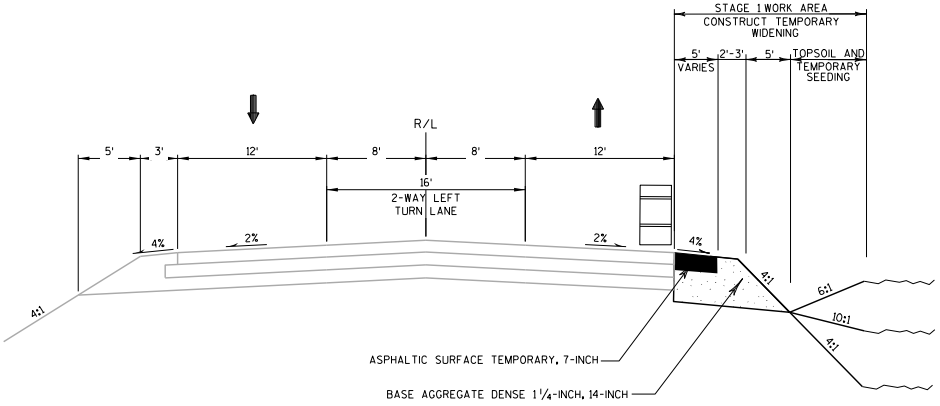
TYPICAL EXISTING SECTION

CTH C

STA 57+45 TO STA 65+95

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	TYPICAL SECTIONS	SHEET 6	E

1033-02-74
Addendum #2
New Sheet 6A
March 3, 2011



STAGE 1 TYPICAL SECTION

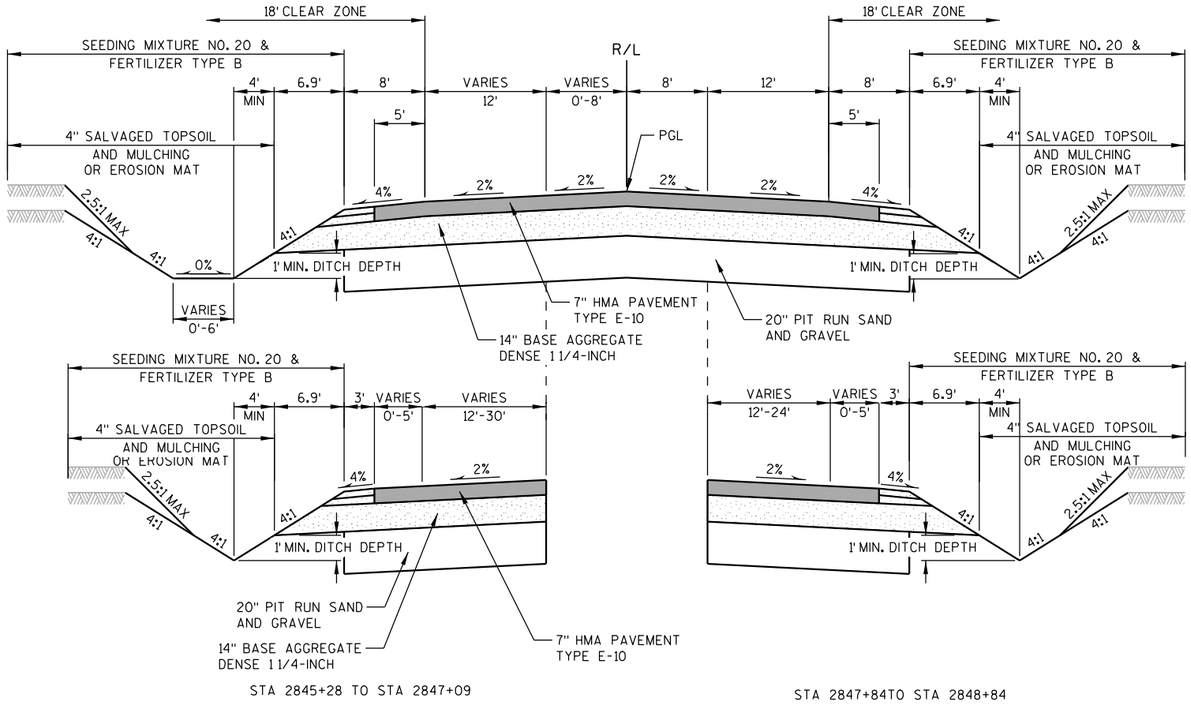
WEST FRONTAGE ROAD

STA 2848+23 TO STA 2858+09

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 1 TYPICAL SECTIONS: WEST FRONTAGE ROAD	SHEET 6A	E

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WISDOT/CADDS SHEET 42



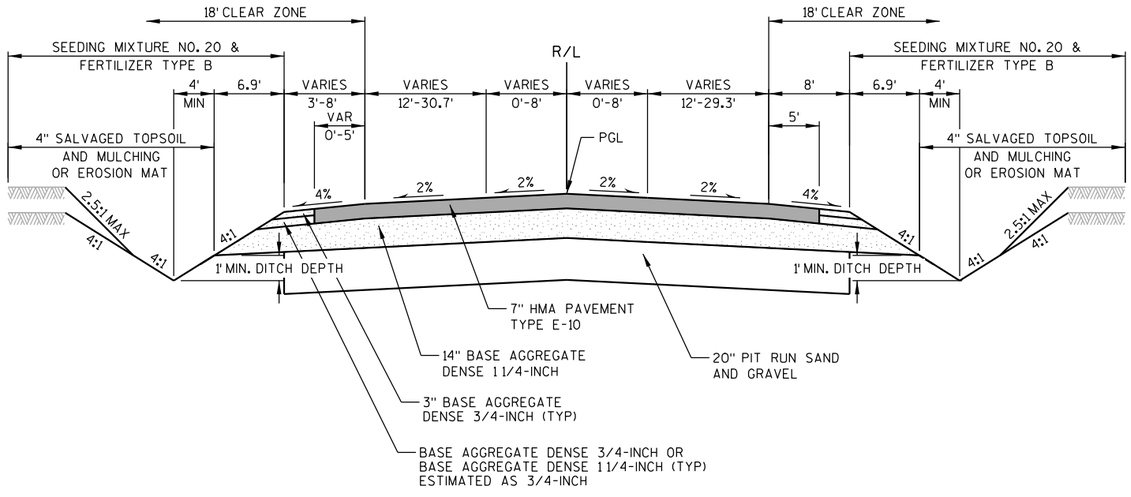
STA 2845+28 TO STA 2847+09

STA 2847+84TO STA 2848+84

TYPICAL FINISHED SECTION

WEST FRONTAGE ROAD

STA 2841+24 TO STA 2853+80



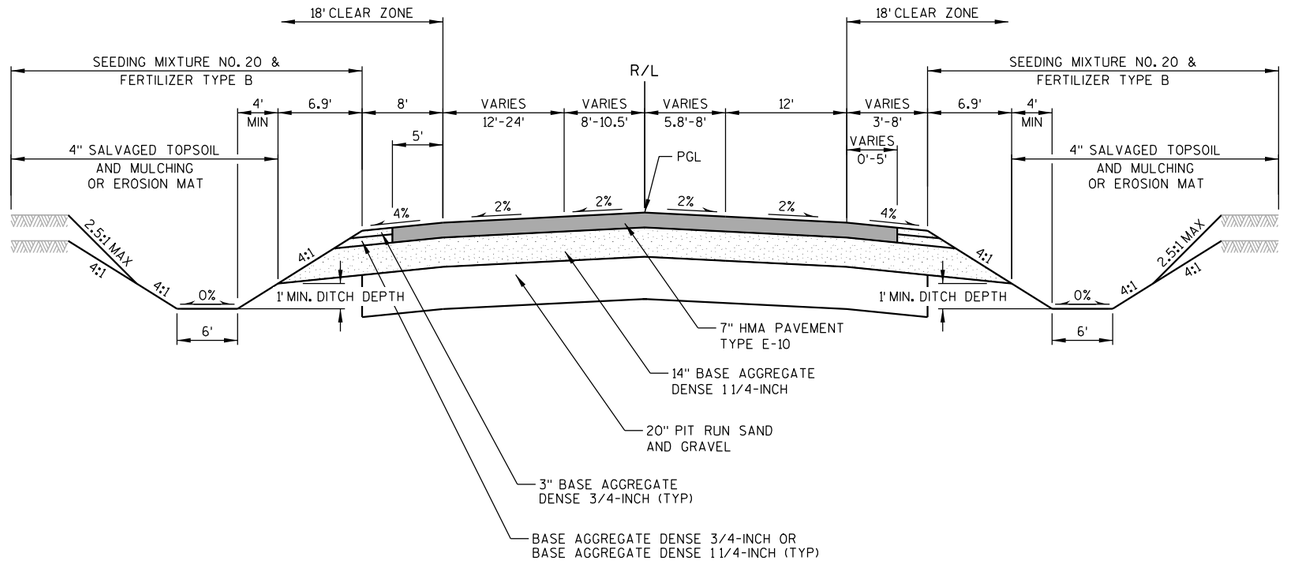
TYPICAL FINISHED SECTION

WEST FRONTAGE ROAD

STA 2838+77 TO STA 2841+24

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	TYPICAL SECTIONS	SHEET 7	E

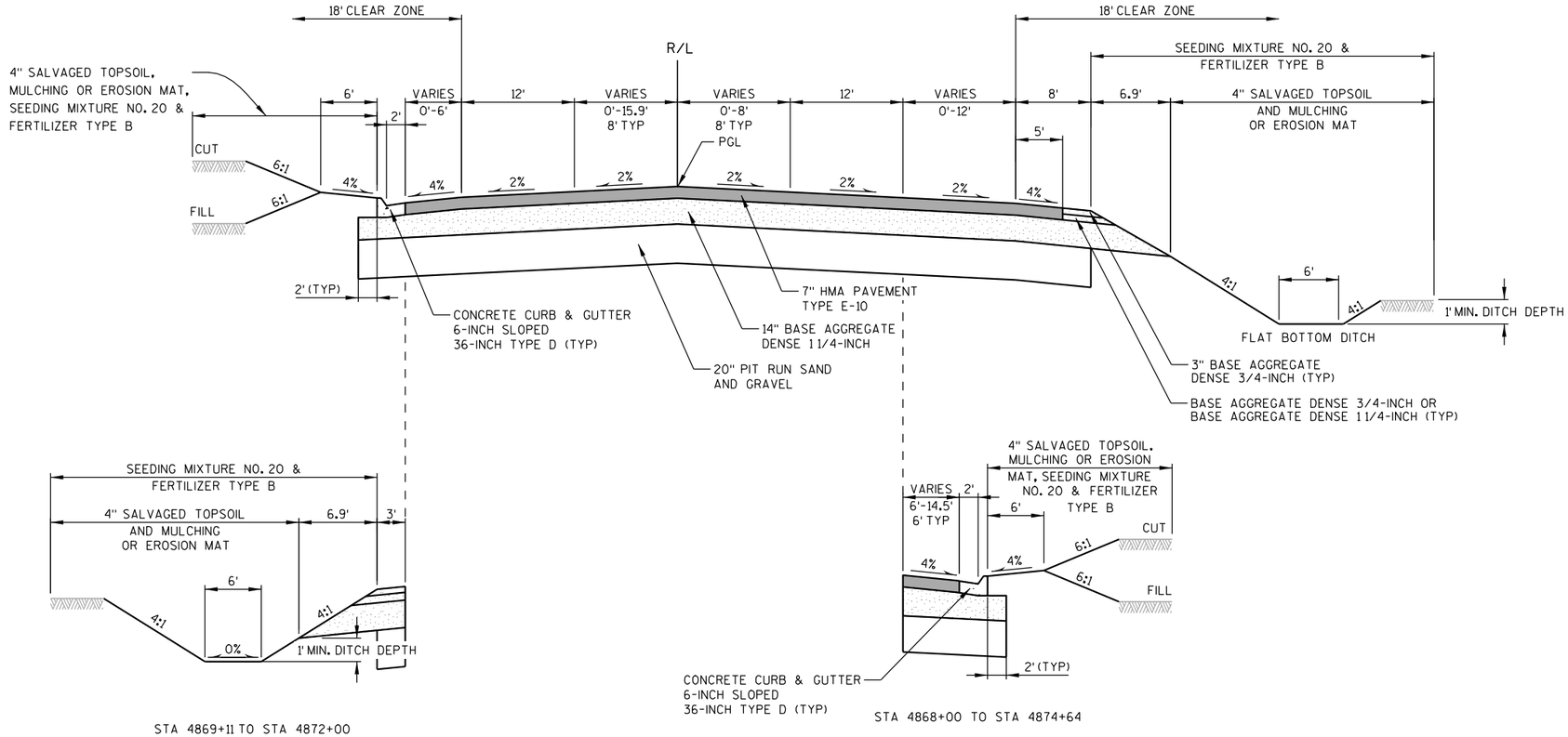
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TYPICAL FINISHED SECTION

WEST FRONTAGE ROAD

STA 2853+80 TO STA 2857+00



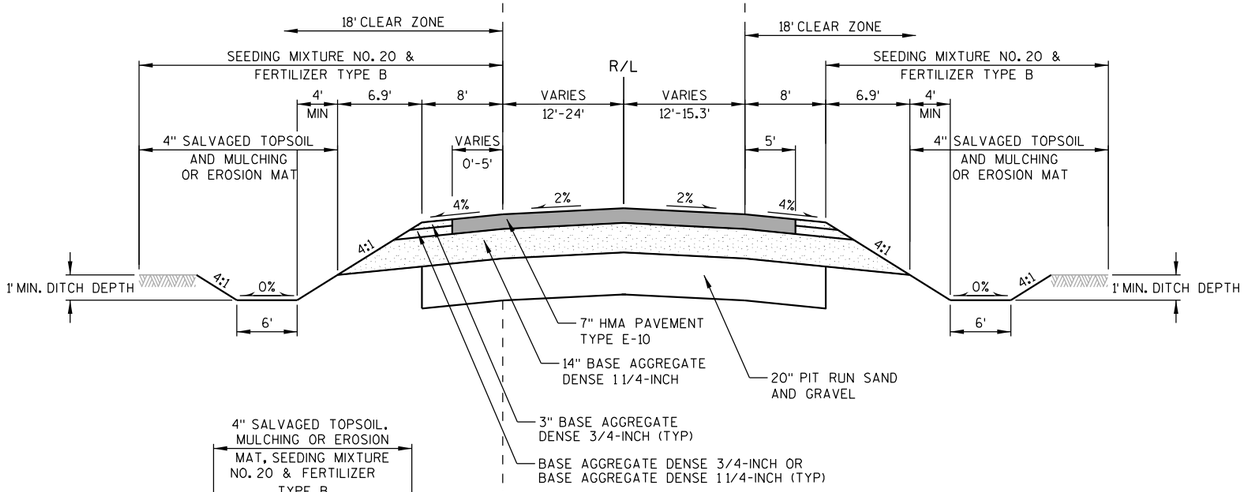
STA 4869+11 TO STA 4872+00

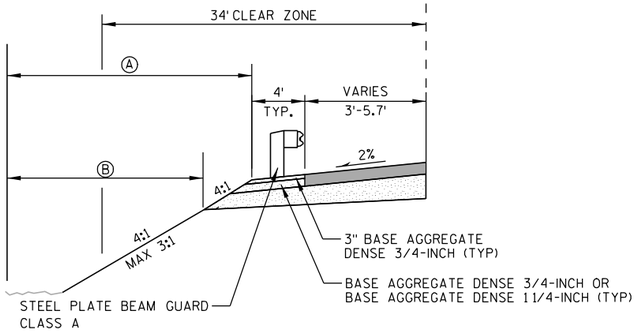
STA 4868+00 TO STA 4874+64

TYPICAL FINISHED SECTION

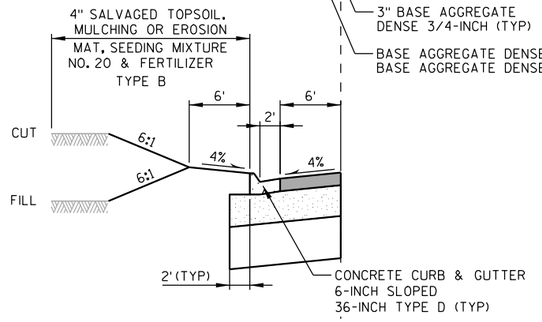
WEST FRONTAGE ROAD

STA 4868+00 TO STA 4882+78

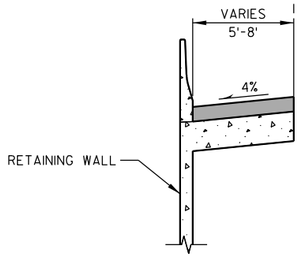




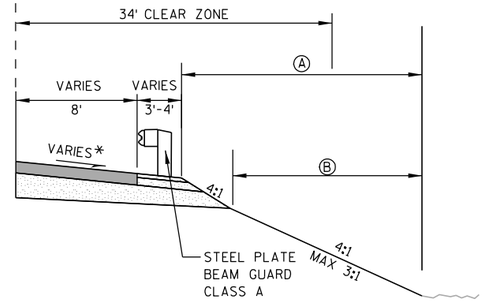
STA 4887+98 TO STA 4888+84



STA 4878+68 TO STA 4882+51



STA 4890+79 TO STA 4892+32



STA 4886+93 TO STA 4893+00

TYPICAL FINISHED SECTION

WEST FRONTAGE ROAD

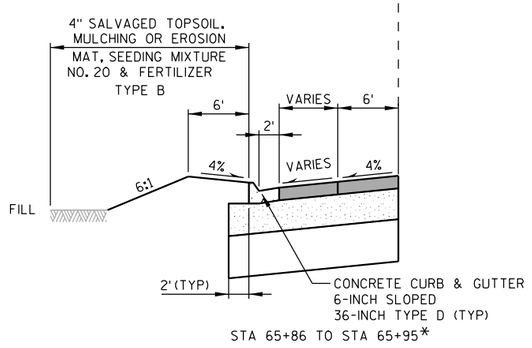
STA 4882+51 TO STA 4888+84

STA 4890+79 TO STA 4896+88

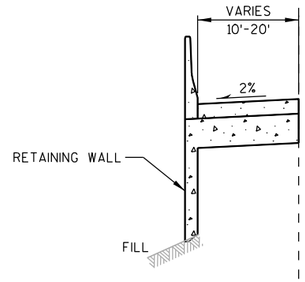
LEGEND:

(A) SEEDING MIXTURE NO. 20 AND FERTILIZER TYPE B

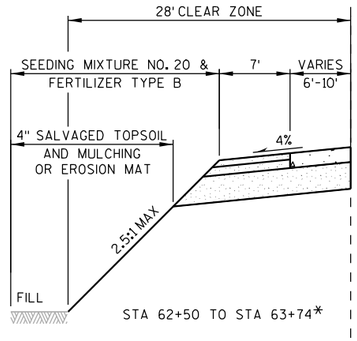
(B) 4" SALVAGED TOPSOIL AND MULCHING OR EROSION MAT



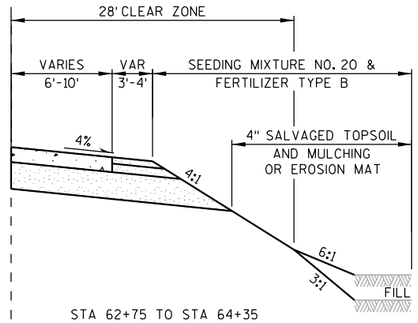
STA 65+86 TO STA 65+95*



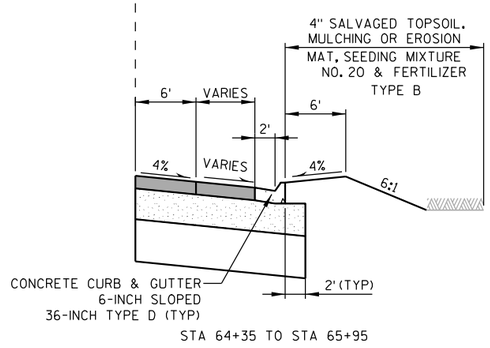
STA 63+74 TO STA 65+00



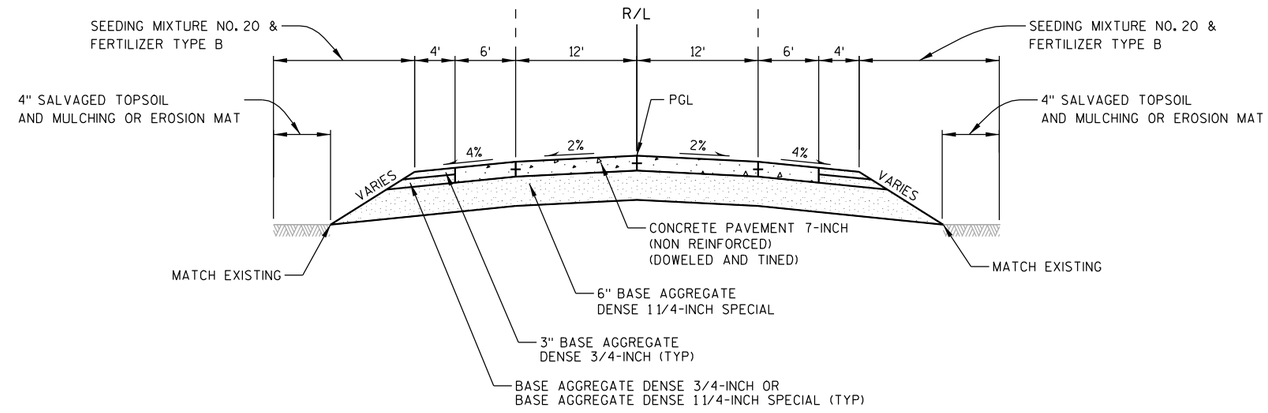
STA 62+50 TO STA 63+74*



STA 62+75 TO STA 64+35



STA 64+35 TO STA 65+95

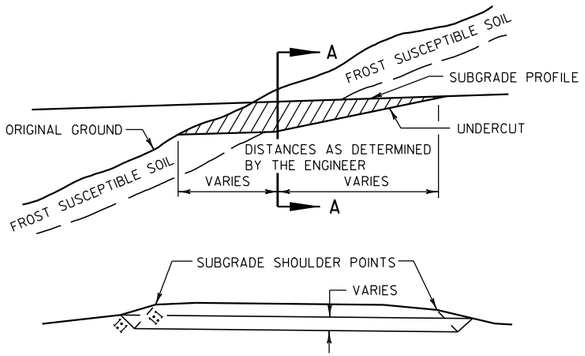


TYPICAL FINISHED SECTION

CTH C

STA 57+45 TO STA 65+95

* BEAMGUARD WILL BE PRESENT
TO PROTECT 2.5:1 SLOPE



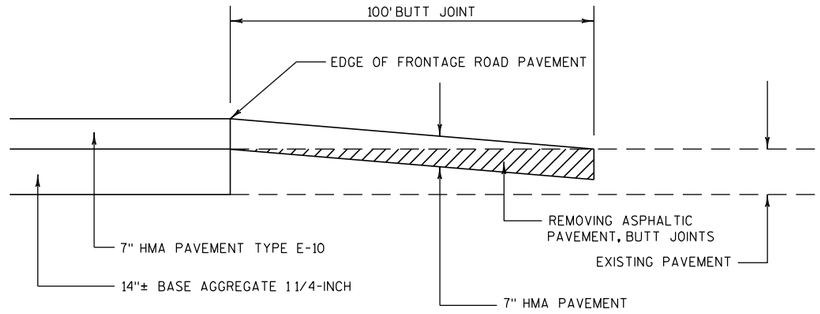
SECTION A-A
CROSS SECTION SHOWING UNDERCUT

NOTES

1. EXACT LOCATIONS AND EXTENT OF EBS SECTIONS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
2. EBS AREA TO BE BACKFILLED WITH MATERIAL ACCEPTABLE TO THE ENGINEER.
3. BACKFILL MUST BE HOMOGENEOUS WITH ADJOINING FILL MATERIAL.
4. 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

100813

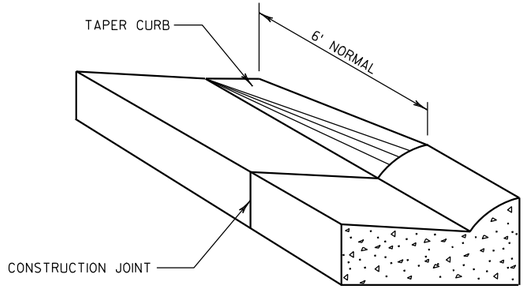


BUTT JOINT DETAIL

AT BEGIN CONSTRUCTION & END CONSTRUCTION
STA 2838+77
STA 2857+00
STA 4868+00
STA 4896+88

CTH C
STA 65+95
(CONCRETE SURFACE, SEE TYPICAL SECTION)

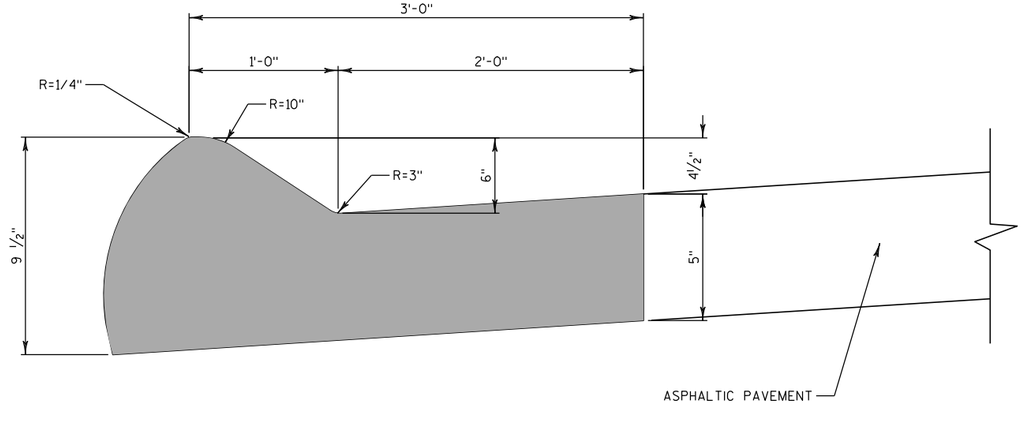
100813



CURB & GUTTER TERMINI DETAIL

NOTE: USE 6 FT TRANSITION FOR CONCRETE AND ASPHALTIC CURB

100813



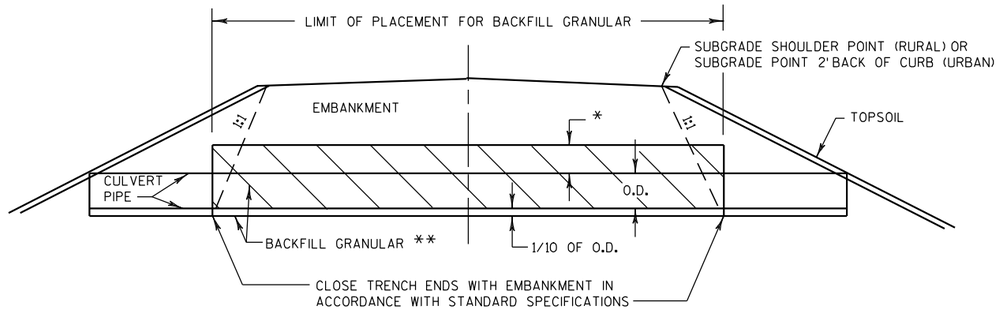
ASPHALTIC CURB

090401

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	CONSTRUCTION DETAILS	SHEET 12	E

FILE NAME : s:\FinalDesign\20\10330274_W\Roads\cds\021001_cd.dgn PLOT DATE : 07-DEC-2010 05:14 PLOT BY : MSCD1S PLOT NAME : 021001_cd PLOT SCALE : 2:1

2



O.D. = OUTSIDE DIAMETER

* CULVERT PIPE IN NEW EMBANKMENT = 1' MIN
* CULVERT PIPE IN EXISTING EMBANKMENT = TO EXISTING GROUND ELEVATION

** INCIDENTAL TO CULVERT PIPE

CULVERT BACKFILL DETAIL

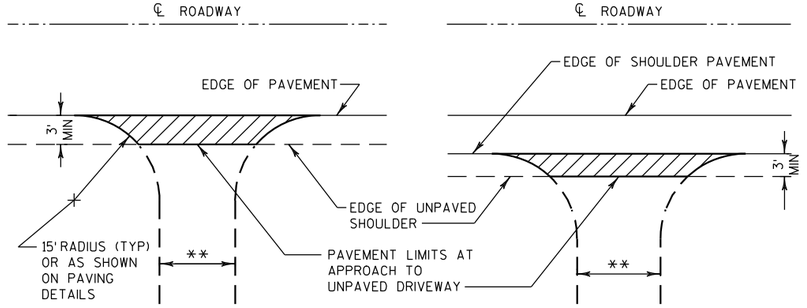
100813

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 = 148.8 ACRES (STH 20 TO CTH K R/W AREA)
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 14.3 ACRES (I.D. 1033-02-74 DISTURBED AREA)

090805

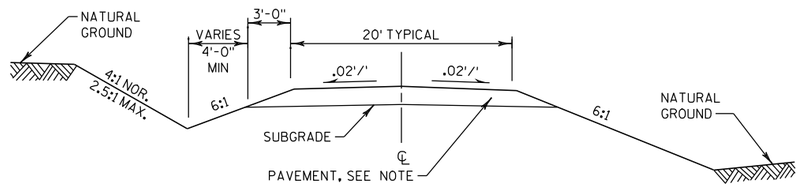


** SEE PAVING DETAILS FOR WIDTH REQUIRED.

PLAN VIEW

PLAN VIEW
(PAVED SHOULDER ON HIGHWAY)

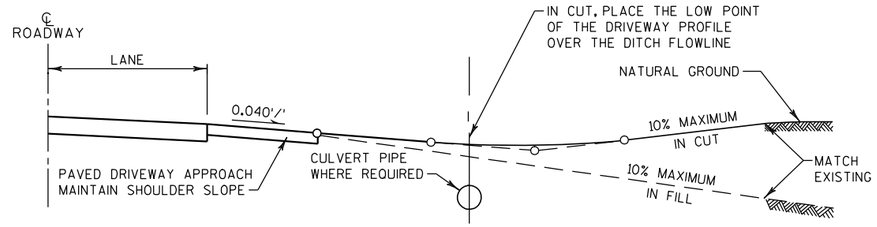
RURAL DRIVEWAY INTERSECTION



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

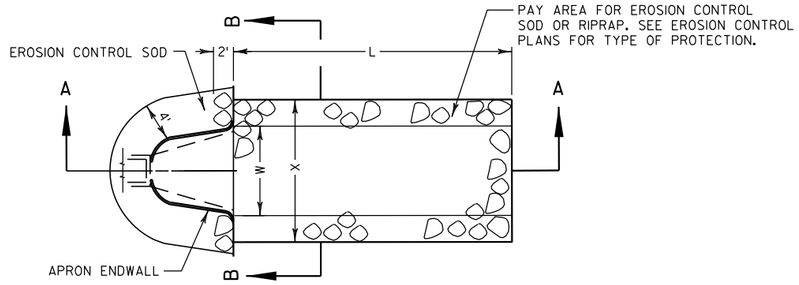
   CONCRETE DRIVEWAY 6-INCH OVER BASE AGGREGATE DENSE 3/4 -INCH (4-INCH)

   OR

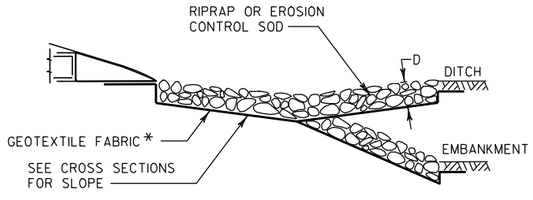
   BASE AGGREGATE DENSE 3/4 -INCH (6-INCH)

RURAL DRIVEWAY

100902



PLAN VIEW



SECTION A-A

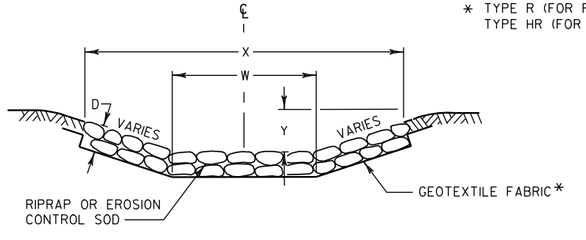
L = 3 x W (NOR) OR 10' MIN
OR AS INDICATED IN THE PLANS
OR AS DIRECTED BY THE ENGINEER

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)

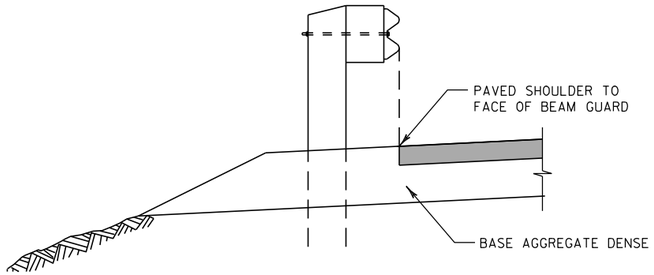


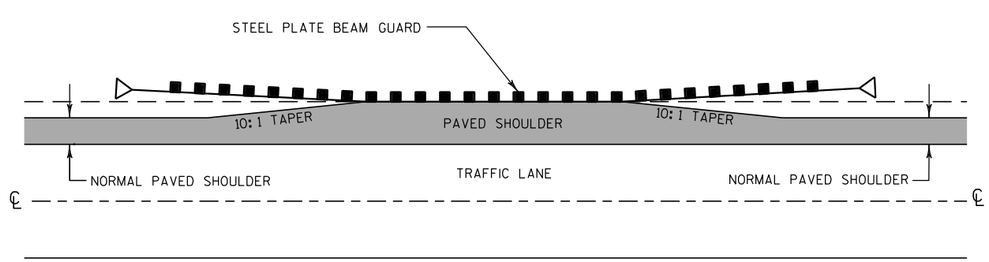
SECTION B-B

SOD, RIPRAP AND GEOTEXTILE FABRIC DETAIL AT APRON ENDWALLS

SEE EROSION CONTROL PLAN FOR LOCATIONS

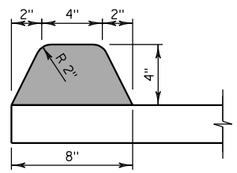
100914



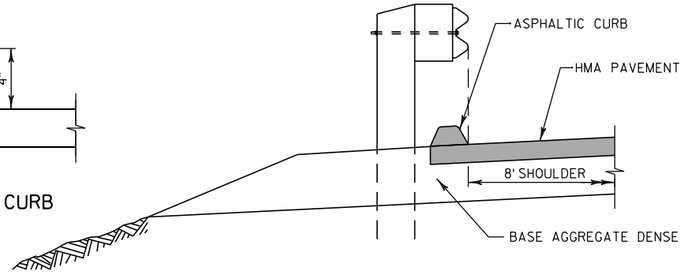


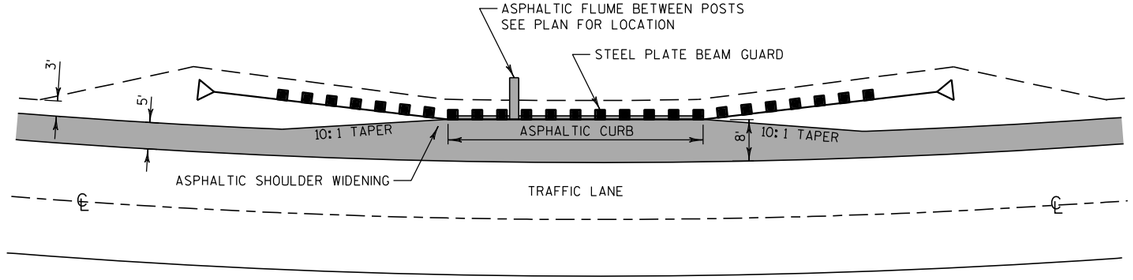
PAVED SHOULDER AT BEAM GUARD

100818



ASPHALTIC CURB

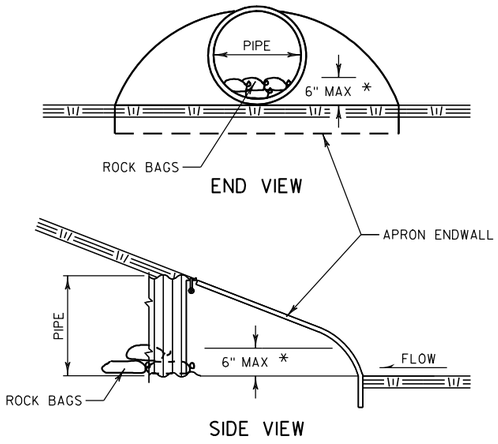




PAVED SHOULDER WIDENING AT BEAM GUARD

FOR LOW SIDE SHOULDER IN SUPERELEVATION SECTIONS

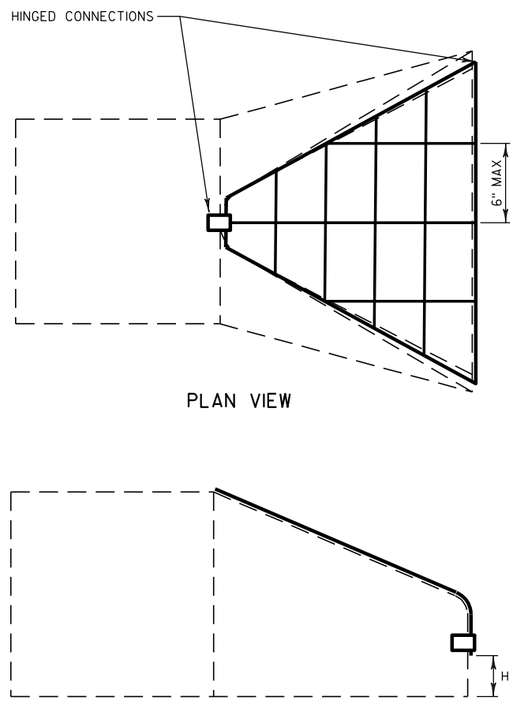
100818

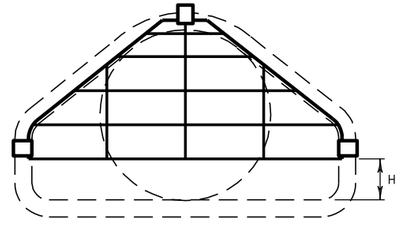


* OR AS DIRECTED BY THE ENGINEER

CULVERT PIPE CHECK

100813





PIPE GRATE

100820

NOTE TO DESIGNERS: When using this detail drawing, include STSP 611.010

GRATE CLEARANCE HEIGHT

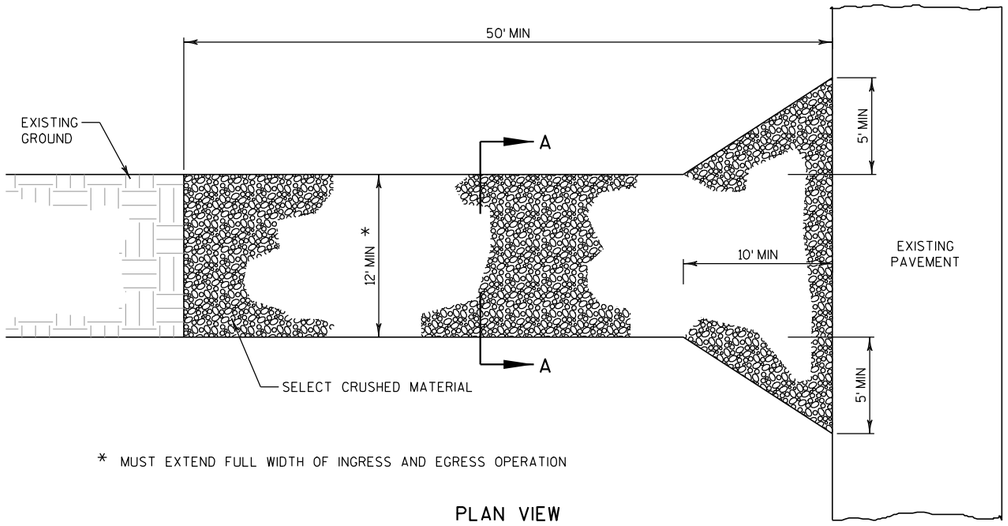
ROUND PIPE		ARCH PIPE	
PIPE SIZE	H	PIPE SIZE	H
12"	2 1/2"	22" - 29"	4"
15"	3"	36" - 44"	5"
18" - 24"	4"	51" - 65"	6"
27" - 36"	5"	73" - 85"	7"
42" - 54"	6"		
60" - 72"	7"		
78" - 90"	8"		

GRATE BAR SIZES

(STANDARD DESIGN)

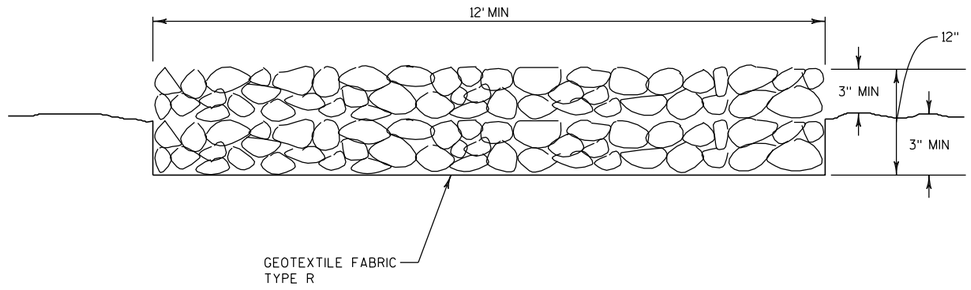
	PIPE SIZE	HOLE DIAMETER REQUIRED	BOLT DIAMETER	BAR SIZE
ROUND PIPE	12" - 24"	3/4"	5/8"	5/8"
	27" - 48"	7/8"	3/4"	3/4"
	54" - 90"	1 1/8"	1"	1"
ARCH PIPE	22" - 29"	3/4"	5/8"	5/8"
	36" - 59"	7/8"	3/4"	3/4"
	65" - 85"	1 1/8"	1"	1"

BOLT LENGTH = PIPE WALL THICKNESS + 2 1/2"



* MUST EXTEND FULL WIDTH OF INGRESS AND EGRESS OPERATION

PLAN VIEW



SECTION A-A

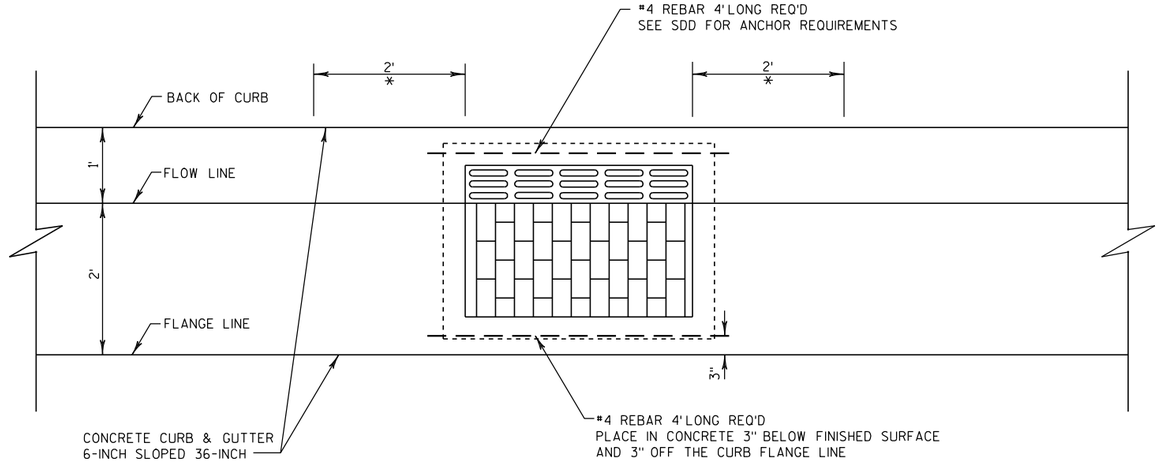
NOTE

TRACKING PADS TO BE INSPECTED DAILY. DEFICIENT AREAS TO BE REPAIRED OR REPLACED IMMEDIATELY.

100813

TRACKING PADS

FOR CONSTRUCTION EGRESS POINTS



PLAN VIEW

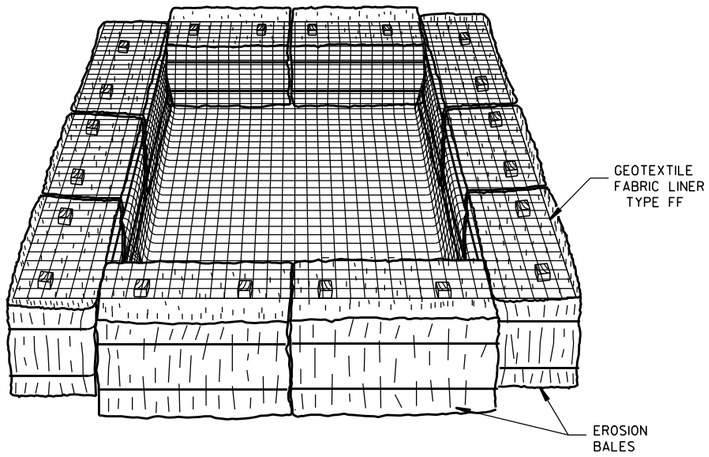
* TRANSITION STANDARD CURB HEAD TO MATCH THE TYPE HM INLET COVER.

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 6-INCH SLOPED 36-INCH.
3. THE TWO 4-FOOT LENGTHS OF #4 REBAR ARE INCIDENTAL TO THE BID ITEM "INLET COVERS TYPE HM".

100813

INLET COVERS, TYPE HM



TEMPORARY SETTLING BASIN

(SIZE TO BE DETERMINED IN FIELD AS INDICATED BELOW:)

STORAGE VOLUME (C.F.) = 16 X GPM (PUMP RATE)

EXAMPLE:
CONTRACTOR INDICATES PUMP CAPABLE OF 50 GPM
HEIGHT OF BALES = 1.5 FT.

SOLUTION:
SV (C.F.) = 16 X 50
SV = 800 C.F.

$\frac{800\ C.F.}{1.5\ FT.}$ = 533 S.F.

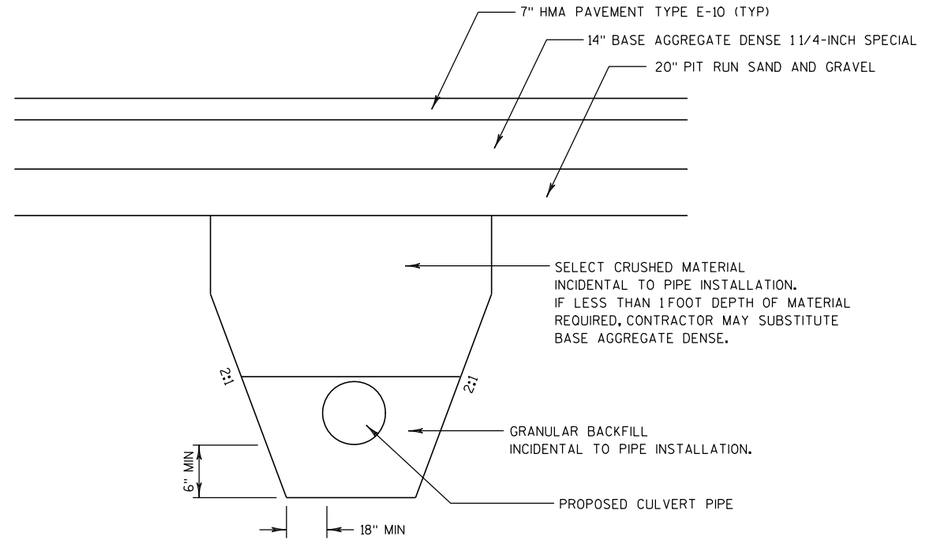
USE A 20 FT. X 27 FT. BASIN

NOTES:

1. CONTRACTOR TO PUMP WATER FROM EXCAVATION TO BASIN PRIOR TO DISCHARGING TO THE WATERWAY.
2. BASIN TO BE KEPT LESS THAN 10% FULL OF SEDIMENT. GEOTEXTILE FABRIC AND SEDIMENTS TO BE DISPOSED BY THE CONTRACTOR OFF OF THE PROJECT SITE.
3. TEMPORARY SETTLING BASIN TO BE PAID FOR AS EROSION BALES AND GEOTEXTILE FABRIC TYPE FF.

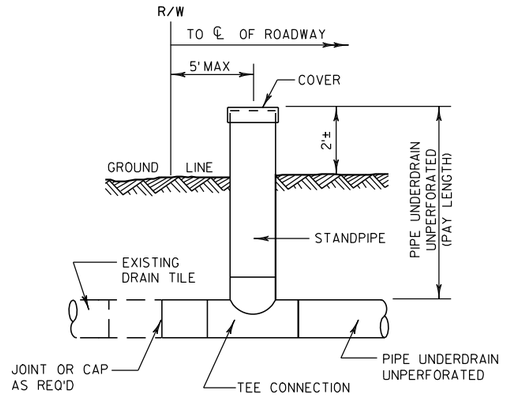
081230

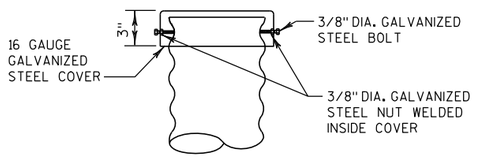
2



INSTALLATION OF PIPES

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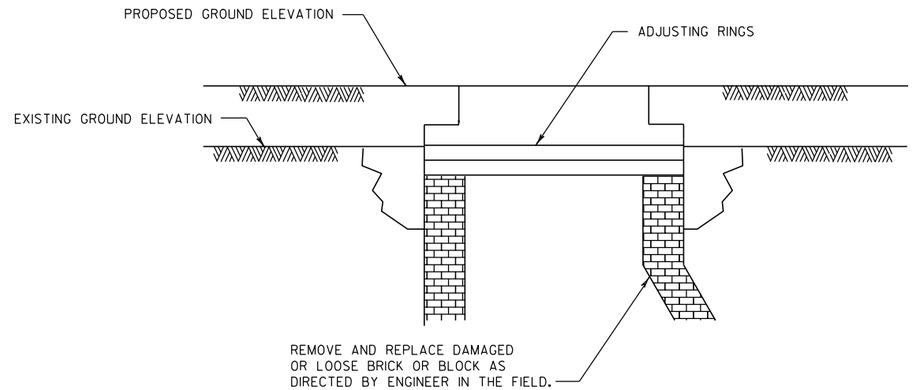
NOTE

THE COST OF FURNISHING AND INSTALLING THE CONNECTION TO THE UNDERDRAIN AND THE COVER SHALL BE CONSIDERED INCIDENTAL TO THE ITEM PIPE UNDERDRAIN, UNPERFORATED.

INSPECTION STANDPIPE AIR VENT

FOR DRAIN TILE

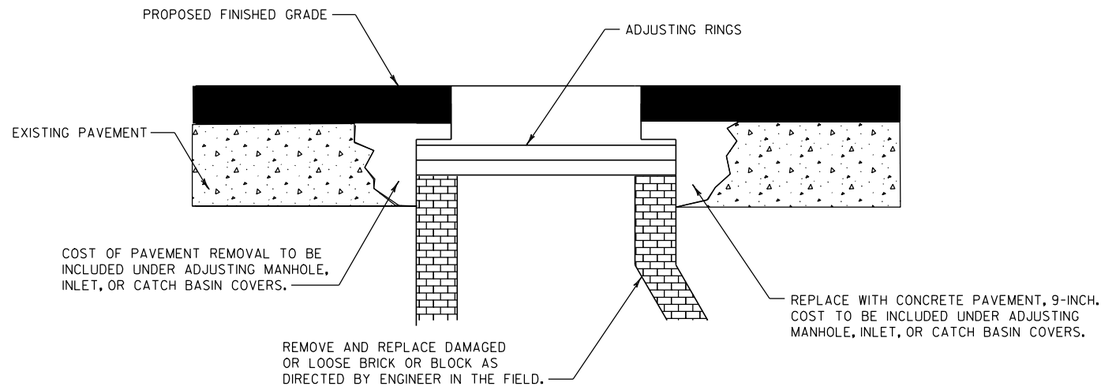
100813



NON-PAVED AREA

NOTE

ADJUST CHIMNEY WITH PROPER SIZE CONCRETE ADJUSTING RINGS (SIZE OF OPENING OF CONCRETE ADJUSTING RING TO BE DETERMINED BY SIZE OF OPENING IN FRAME) AND REINSTALL EXISTING FRAME AND LID TO FINISHED GRADE. (BACKFILL AND OTHER WORK TO BE DONE IN ACCORDANCE WITH ITEM ADJUSTING INLET COVER.)

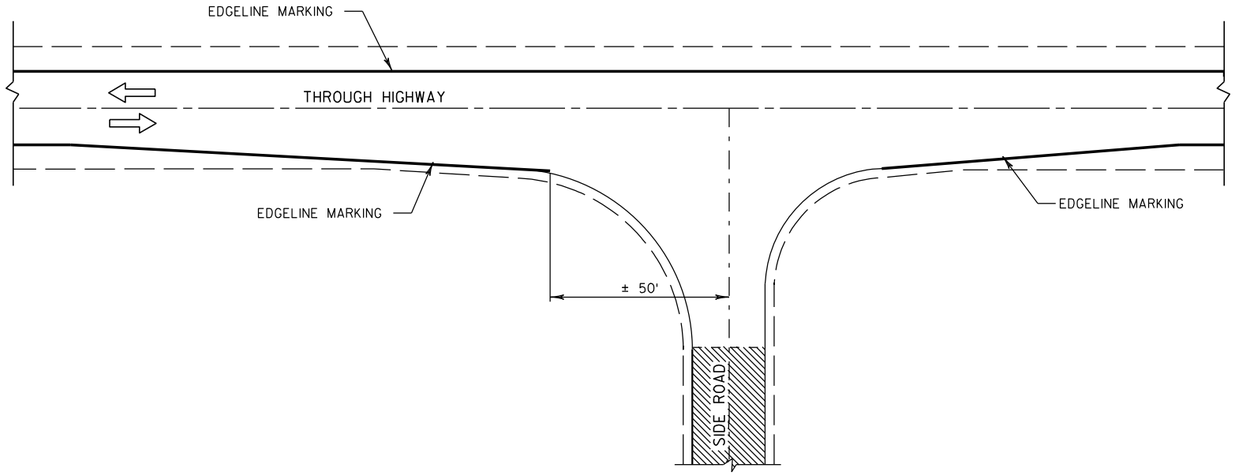


PAVED AREA

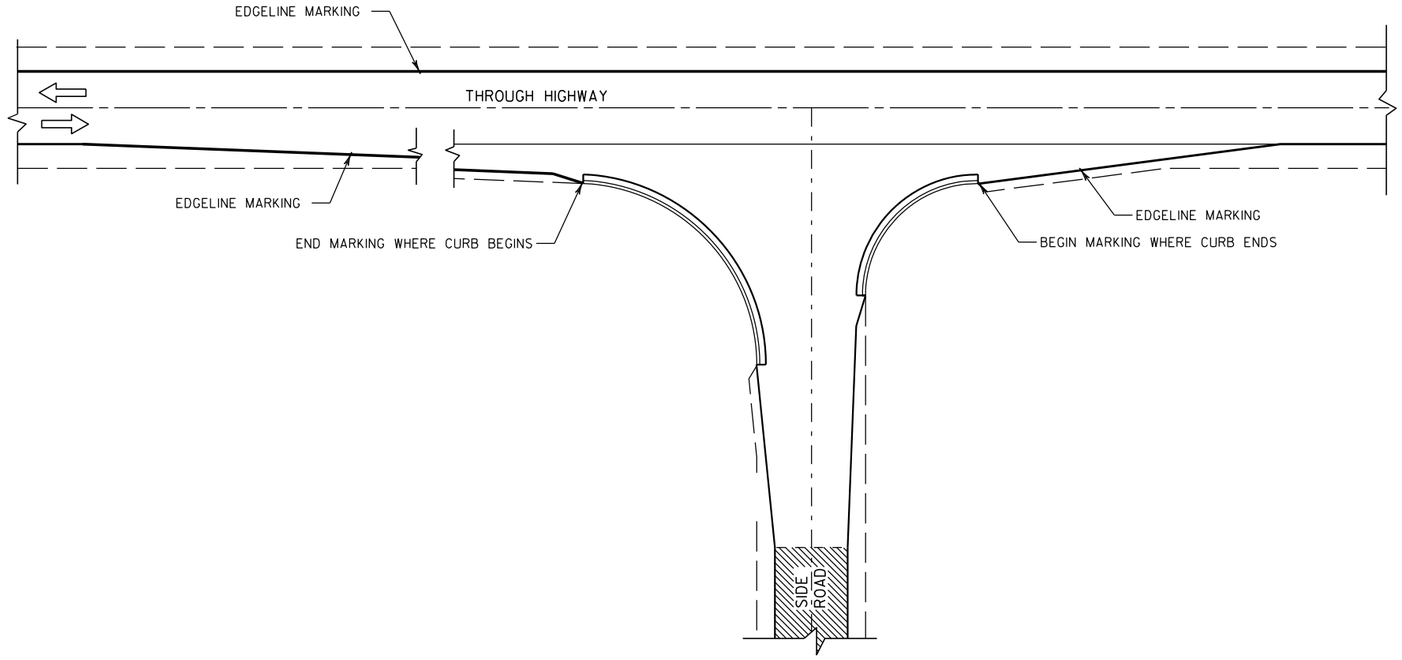
ADJUSTING MANHOLE OR INLET COVERS

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2



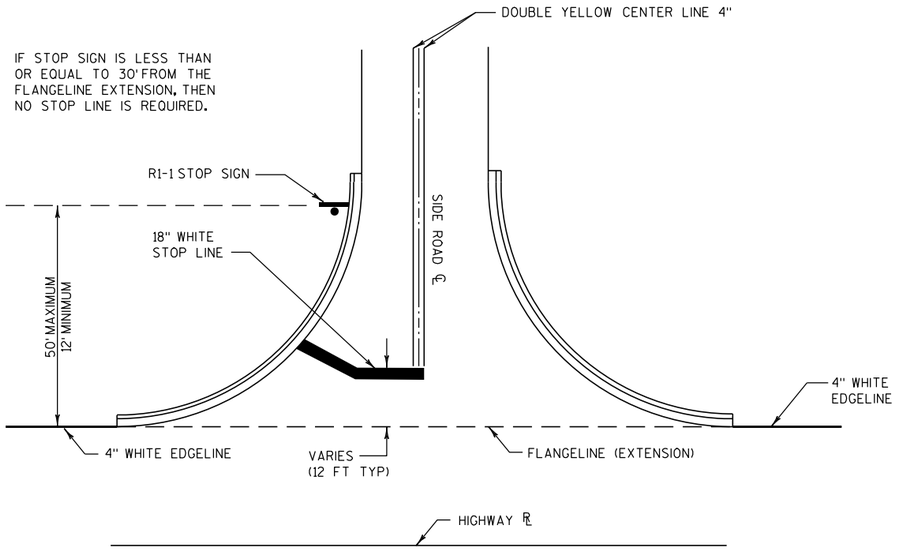
MINOR INTERSECTION WITHOUT CURBS
TYPICAL MARKING



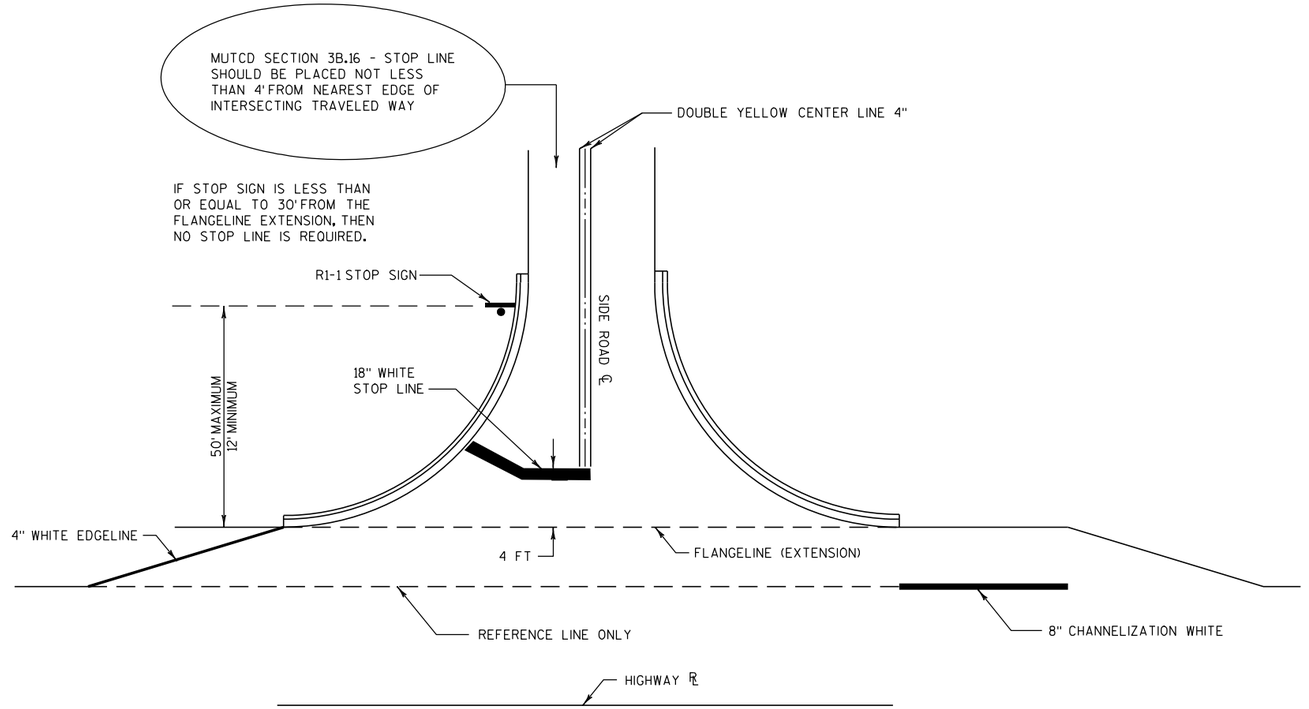
MINOR INTERSECTION WITH CURBS
TYPICAL MARKING

MINOR INTERSECTION EDGELINE MARKING

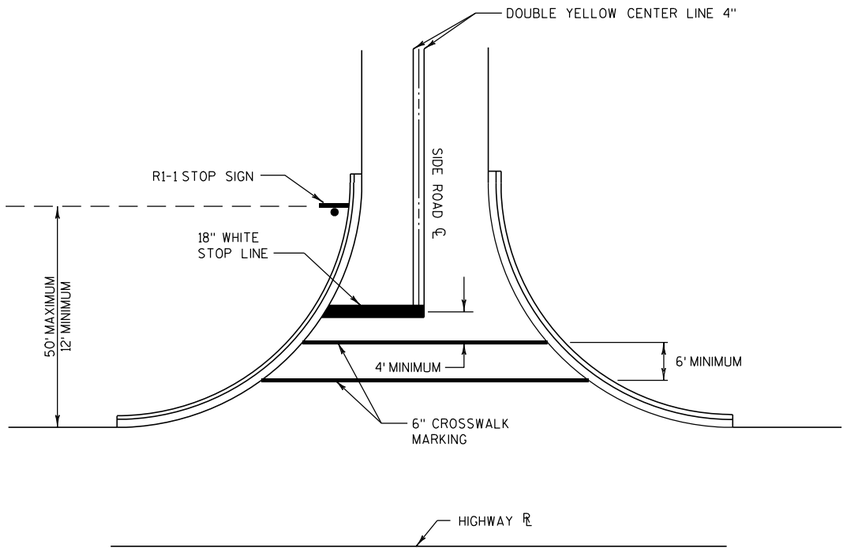
100803



TYPICAL PAVEMENT MARKING FOR SIDEROADS



TYPICAL PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



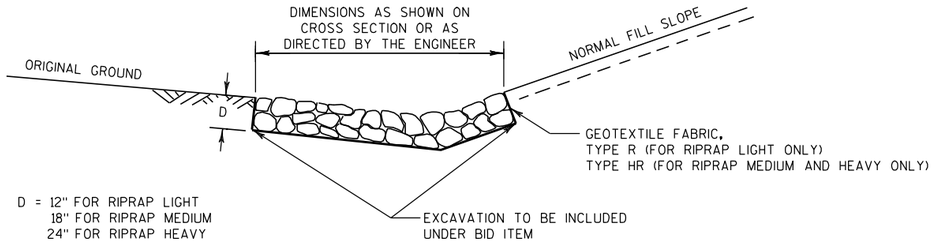
TYPICAL PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING

NOTES

1. 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE PROJECT ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
2. STOP LINES REQUIRED WHERE:
   - A. CROSSWALK MARKINGS EXIST OR ARE BEING PROVIDED
   - B. LARGE RADII
   - C. OFFSET LEFT TURNS WHERE STOP BAR FOR LEFT TURN IS SET BACK FROM THRU MOVEMENT

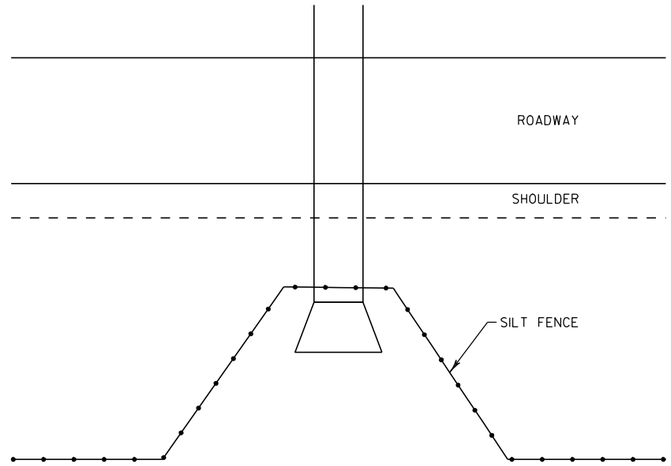
100818

PAVEMENT MARKING AT SIDEROADS



RIPRAP IN DITCHES

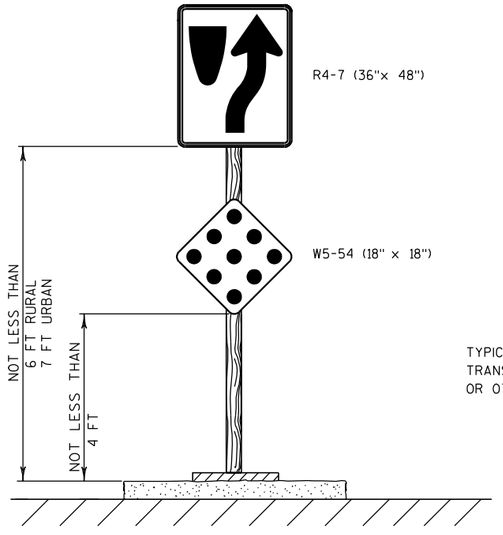
100901



NOTE
SEE SILT FENCE SDD FOR ADDITIONAL INFORMATION.

TYPICAL SILT FENCE DETAIL AT PIPE INLET

100902

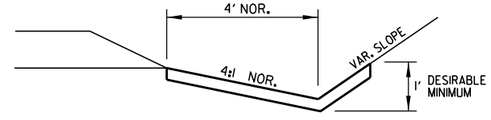


TYPICAL INSTALLATION FOR
TRANSITION TO DIVIDED HIGHWAY
OR OTHER SPECIAL NEEDS AREAS

SIGNING DETAIL

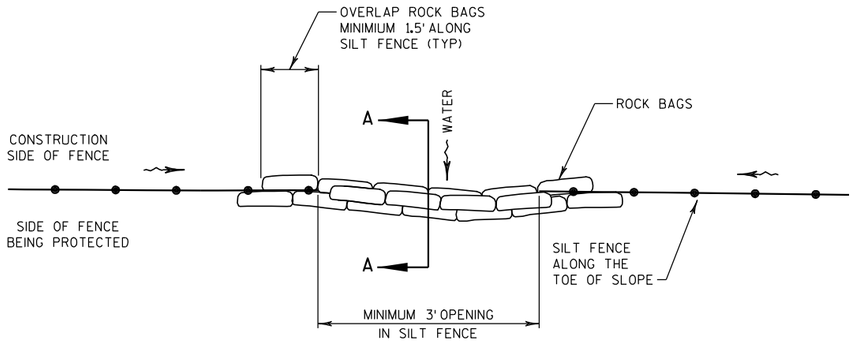
SEE PERMANENT SIGNING PLANS FOR LOCATIONS

090610



SOD OR EROSION MAT DETAIL FOR DITCHES

081231

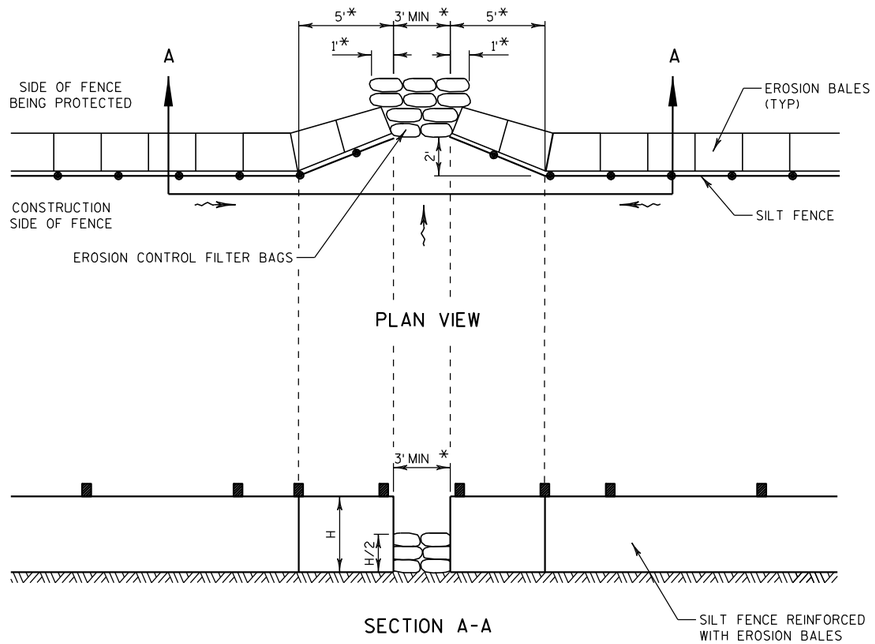


PLAN VIEW



SECTION A-A

SILT FENCE DRAINAGE OUTLET, ROCK BAGS



PLAN VIEW

SECTION A-A

* DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS
AS DIRECTED BY THE ENGINEER.

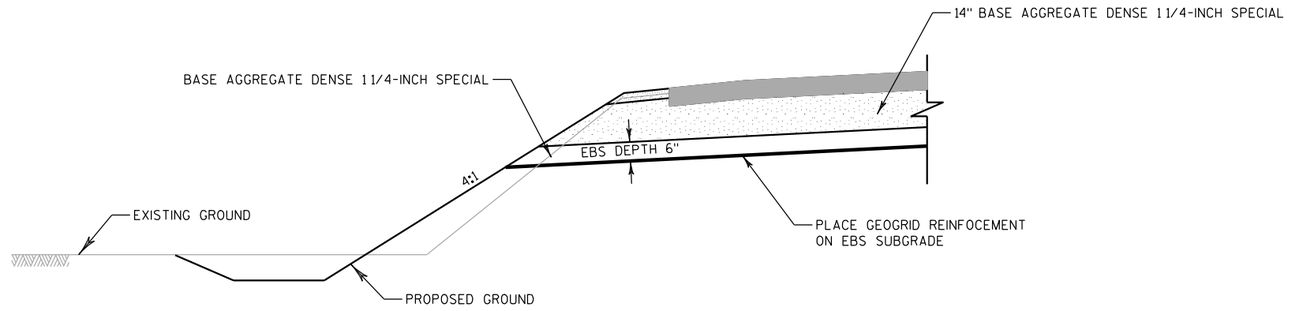
SILT FENCE DRAINAGE OUTLET, EROSION CONTROL FILTER BAGS

(FOR USE IN ENVIRONMENTALLY SENSITIVE AREAS)

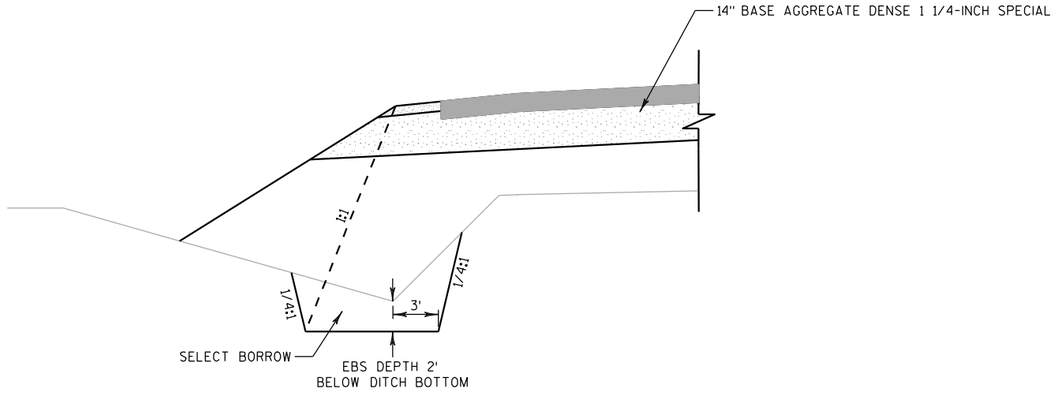
100903

2

SHALLOW CUT/FILL **



EXISTING DITCHES **



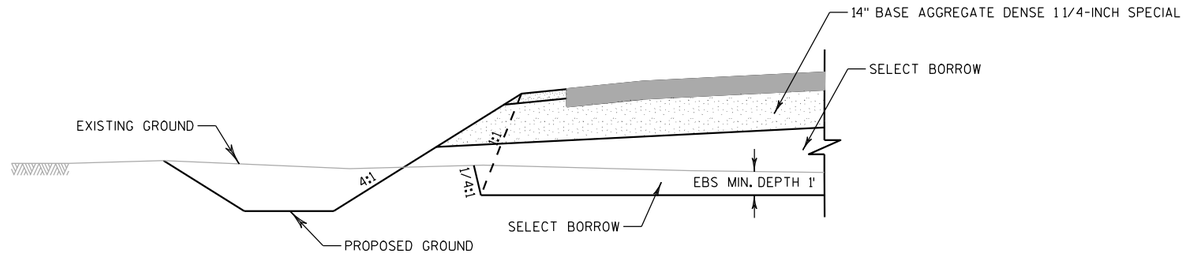
PAVEMENT SUBGRADE IMPROVEMENT DETAILS FOR FRONTAGE ROADS AND CROSSROADS

** ACTUAL LOCATIONS DEPENDENT ON FIELD CONDITIONS DURING GRADING OPERATIONS. GEOGRID REINFORCEMENT AND FILL MATERIAL SHALL NOT BE PLACED UNTIL AUTHORIZED BY THE ENGINEER OR SOILS ENGINEER.

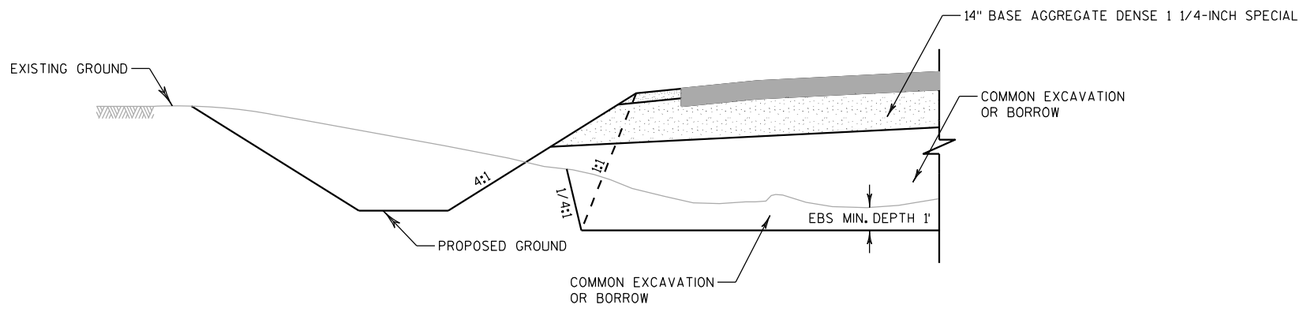
100427

2

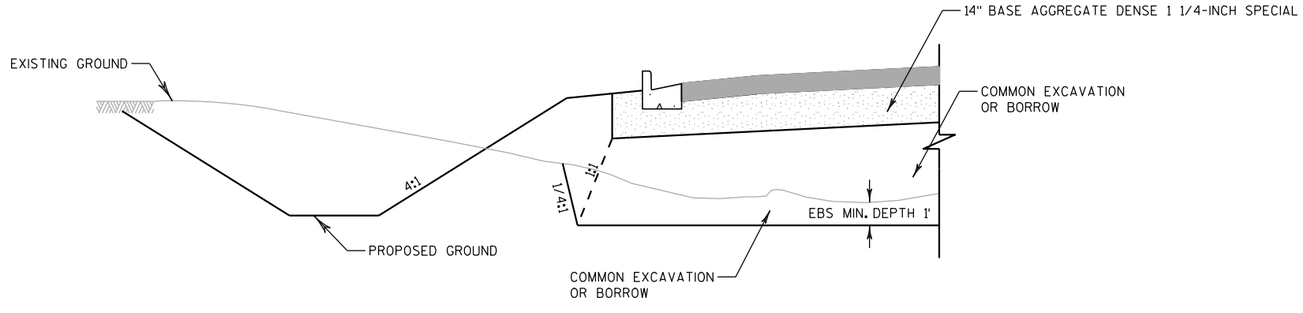
MINOR FILL EMBANKMENTS **



FILL EMBANKMENTS (RURAL) **



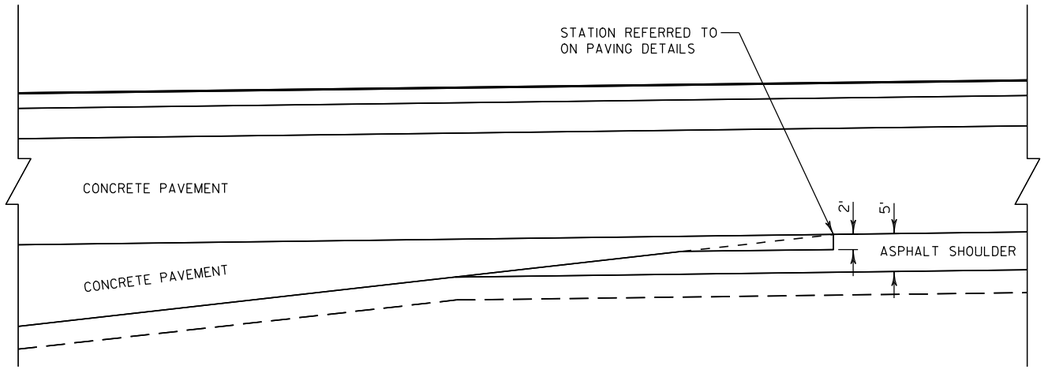
FILL EMBANKMENTS (URBAN) **



PAVEMENT SUBGRADE IMPROVEMENT DETAILS FOR FRONTAGE ROADS AND CROSSROADS

** ACTUAL LOCATIONS DEPENDENT ON FIELD CONDITIONS DURING GRADING OPERATIONS. GEOGRID REINFORCEMENT AND FILL MATERIAL SHALL NOT BE PLACED UNTIL AUTHORIZED BY THE ENGINEER OR SOILS ENGINEER.

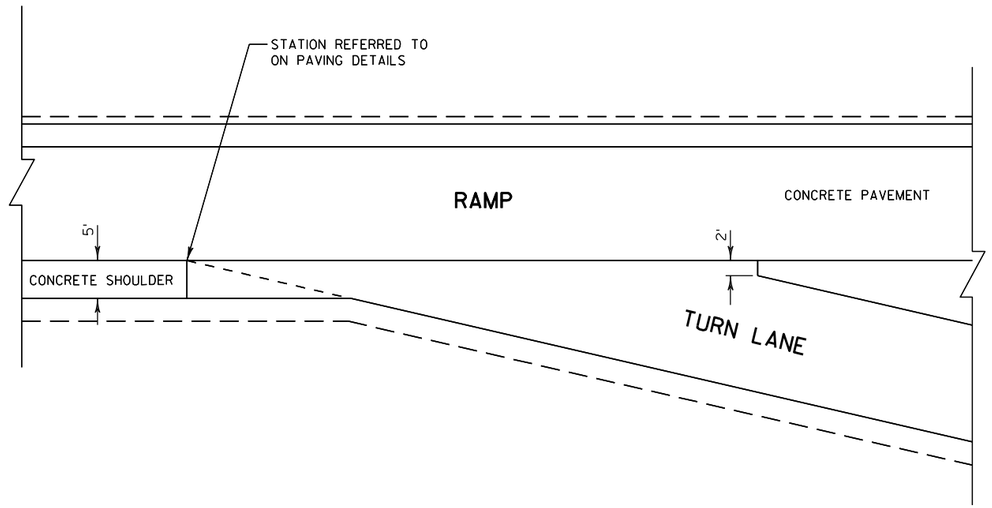
100427



TAPER END LAYOUT FOR CONCRETE PAVEMENT

FOR INTERSECTION TAPERS WITH CONCRETE PAVEMENT AND ASPHALT SHOULDERS

081230

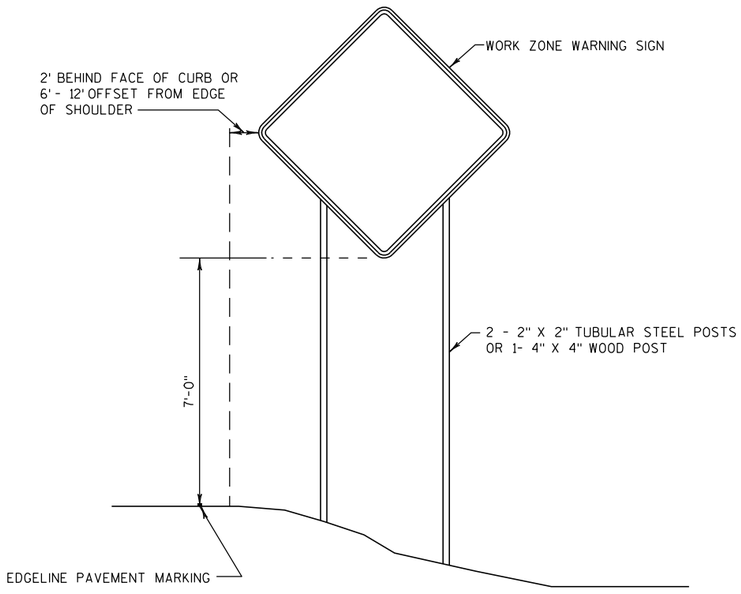


TAPER END LAYOUT FOR CONCRETE PAVEMENT

FOR TURN LANE ON RAMPS WITH CONCRETE SHOULDER

081230

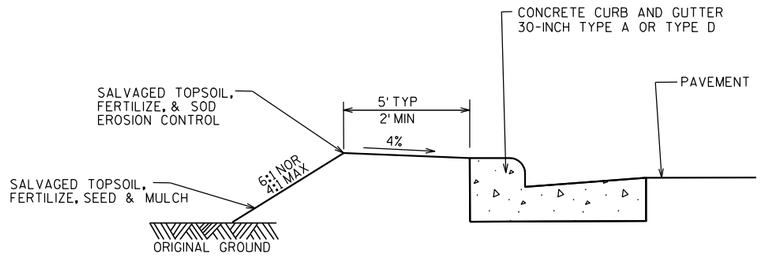
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TYPICAL TEMPORARY TRAFFIC CONTROL SIGN MOUNTING ON FIXED SUPPORT

LONG TERM
7 DAYS OR MORE

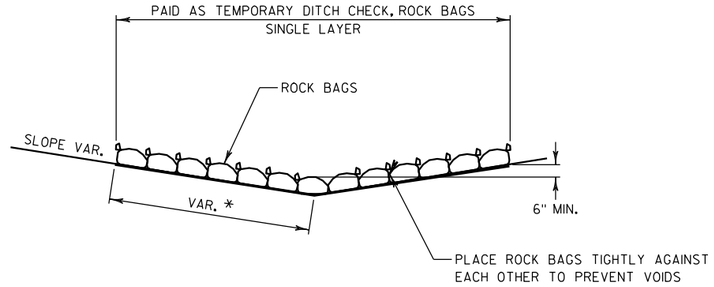
101105



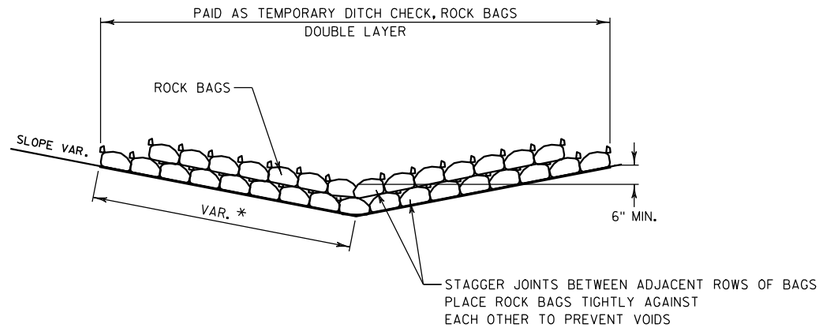
TYPICAL PARTIAL SECTION AT INTERSECTION RADII

081230

2



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

TEMPORARY DITCH CHECKS

091218

FILE NAME : s:\FinalDesign\20\10330274_W\Roads\cds\021001_cd.dgn PLOT DATE : 07-DEC-2010 05:16 PLOT BY : MSCD1S PLOT NAME : 021001_cd16 PLOT SCALE : 2:1
WISDOT/CADDS SHEET 42

2

LEGEND

- (APO6) HMA PAVEMENT TYPE E-3, 7-INCH
- (AGO1) BASE AGGREGATE DENSE 3/4-INCH
- (PVO1) CONCRETE PAVEMENT APPROACH SLAB
- (PVO5) ASPHALTIC FLUME
- (PV11) CONCRETE SURFACE DRAINS
- (CGO2) CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
- (CMO1) CONCRETE MEDIAN SLOPED NOSE TYPE 1
- (CMO3) CONCRETE CORRUGATED MEDIAN
- (CMO5) CONCRETE SIDEWALK, 5-INCH
- (DRO2) CONCRETE DRIVEWAY 9-INCH
- (DRO3) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- (DRO4) AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH, 6-INCH
- (BGO1) STEEL THRIE BEAM STRUCTURE APPROACH
- (BGO2) STEEL PLATE BEAM GUARD CLASS A
- (BGO3) ANCHORAGE FOR STEEL PLATE BEAM GUARD TYPE 2
- (BGO4) STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
- (BGO5) CRASH CUSHION 36-INCH
- (LSO1) SOD LAWN
- (SWO1) SAWING EXISTING PAVEMENT
- (SWO2) SAWING CONCRETE PAVEMENT FULL DEPTH
- (CPO1) CONCRETE PAVEMENT 7-INCH, DOWELED AND TINED

MATCHLINE 2844+00

WEST FRONTAGE ROAD

2843 2842 2841 2840 2839 2838

776.94 776.91 776.86 776.79 776.70 776.58 776.45 776.29 776.11 775.91 775.69 775.45 775.19 774.93 774.67 774.42 774.16 773.90 773.64 773.39 773.13 772.89 773.27 773.47 775.08

SW01 26' DR03 +79.78 45.05' LT R 20' 5 +59.78 25.00' LT AGO1 APO6 AGO1 APO6

5' 3' 20' 20' 5' 3'

+29.84 25.00' RT R 24' 4 +05.84 60.00' RT +10.06 77.49' RT DR03 35' SW01 2841+69.22 74.04' RT +70.84 25.00' RT R 24' 3 +45.63 25.00' RT +92.95 31.92' RT

APO6 +46.10 25.00' LT APO6 1 75' R CG02 2 50' R APO6 +42.54 27.44' RT

R/L WEST FRONTAGE ROAD PV05 +78.60 21.20' LT +86.60 22.00' LT +36.60 17.00' LT +86.60 12.00' LT APO6 APO6 AGO1 SW01 5' 3' 12' 12' 5' 3'

SIGN

NOTE

1. SEE "ALIGNMENT PLAN - TRANSITIONAL CURVES" FOR LANE LAYOUT.

N

RADIUS TABLE

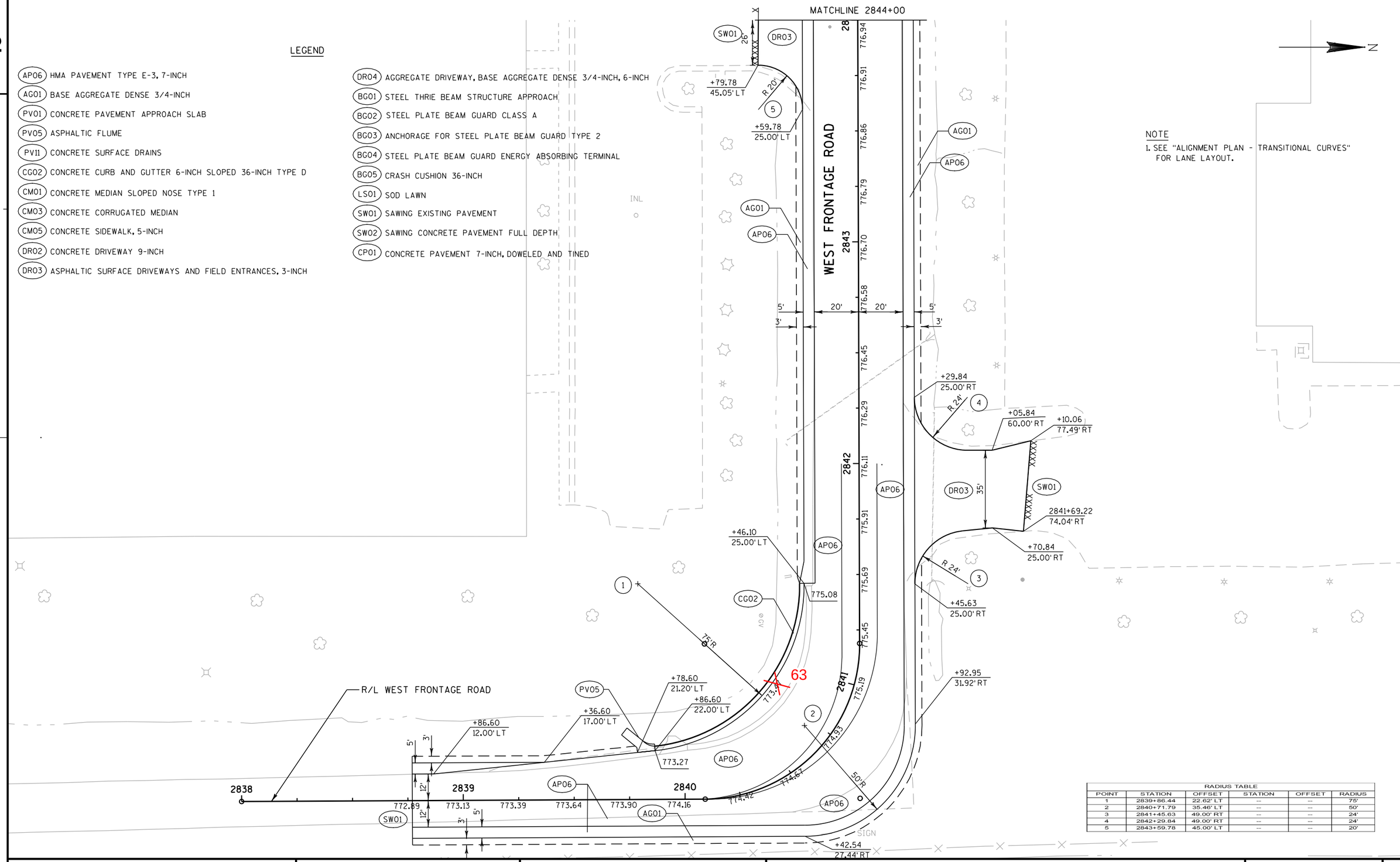
POINT	STATION	OFFSET	STATION	OFFSET	RADIUS
1	2839+86.44	22.62' LT	--	--	75'
2	2840+71.79	35.46' LT	--	--	50'
3	2841+45.63	49.00' RT	--	--	24'
4	2842+29.84	49.00' RT	--	--	24'
5	2843+59.78	45.00' LT	--	--	20'

See new sheet #29

2

LEGEND

- (APO6) HMA PAVEMENT TYPE E-3, 7-INCH
- (AGO1) BASE AGGREGATE DENSE 3/4-INCH
- (PVO1) CONCRETE PAVEMENT APPROACH SLAB
- (PVO5) ASPHALTIC FLUME
- (PV11) CONCRETE SURFACE DRAINS
- (CGO2) CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
- (CMO1) CONCRETE MEDIAN SLOPED NOSE TYPE 1
- (CMO3) CONCRETE CORRUGATED MEDIAN
- (CMO5) CONCRETE SIDEWALK, 5-INCH
- (DRO2) CONCRETE DRIVEWAY 9-INCH
- (DRO3) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- (DRO4) AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH, 6-INCH
- (BGO1) STEEL THRIE BEAM STRUCTURE APPROACH
- (BGO2) STEEL PLATE BEAM GUARD CLASS A
- (BGO3) ANCHORAGE FOR STEEL PLATE BEAM GUARD TYPE 2
- (BGO4) STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
- (BGO5) CRASH CUSHION 36-INCH
- (LSO1) SOD LAWN
- (SWO1) SAWING EXISTING PAVEMENT
- (SWO2) SAWING CONCRETE PAVEMENT FULL DEPTH
- (CPO1) CONCRETE PAVEMENT 7-INCH, DOWELED AND TINED



NOTE

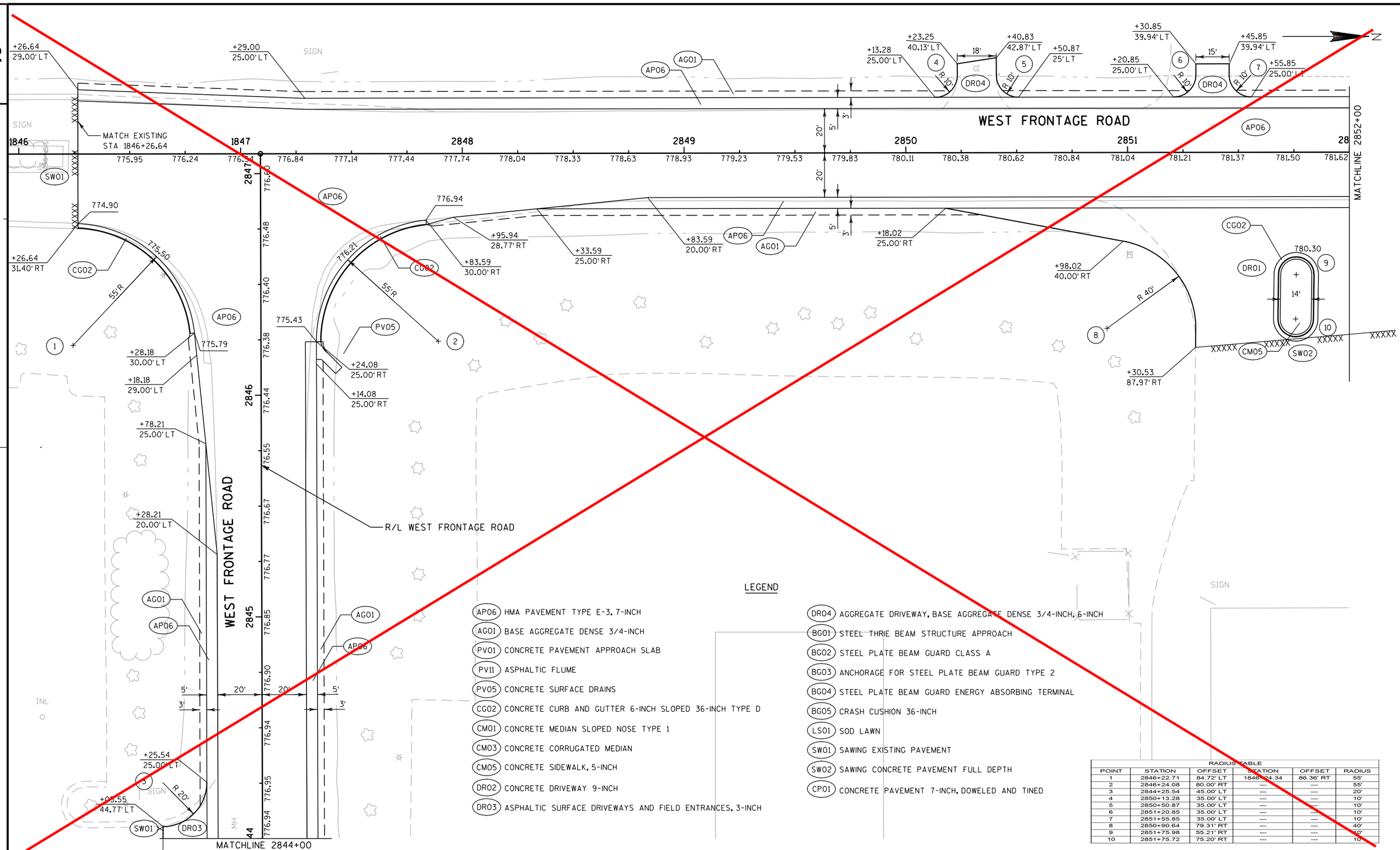
1. SEE "ALIGNMENT PLAN - TRANSITIONAL CURVES" FOR LANE LAYOUT.

RADIUS TABLE

POINT	STATION	OFFSET	STATION	OFFSET	RADIUS
1	2839+86.44	22.62' LT	--	--	75'
2	2840+71.79	35.46' LT	--	--	50'
3	2841+45.63	49.00' RT	--	--	24'
4	2842+29.84	49.00' RT	--	--	24'
5	2843+59.78	45.00' LT	--	--	20'

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	PLAN DETAILS	SHEET 29	E

FILE NAME : S:\FinalDesign\20\10330274_W\Roads\cds\021201_pd.dgn PLOT DATE : 07-DEC-2010 17:32 PLOT BY : MSCD1S PLOT NAME : 021201_pd PLOT SCALE : 40:1



LEGEND

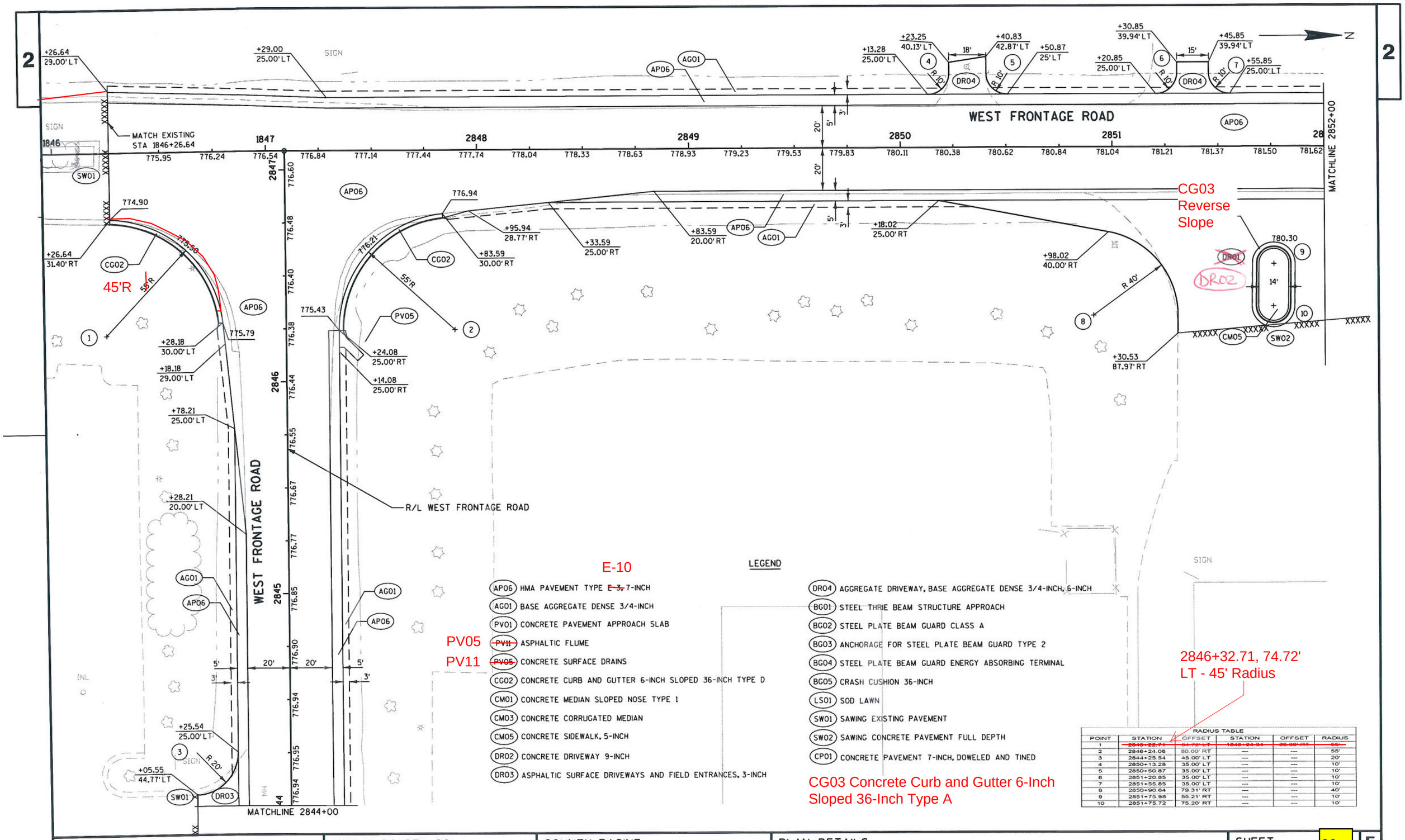
- AP06 HMA PAVEMENT TYPE E-3, 7-INCH
- AG01 BASE AGGREGATE DENSE 3/4-INCH
- PV01 CONCRETE PAVEMENT APPROACH SLAB
- PV11 ASPHALTIC FLUME
- PV05 CONCRETE SURFACE DRAINS
- CG02 CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
- CM01 CONCRETE MEDIAN SLOPED NOSE TYPE 1
- CM03 CONCRETE CORRUGATED MEDIAN
- CM05 CONCRETE SIDEWALK, 5-INCH
- DR02 CONCRETE DRIVEWAY 9-INCH
- DR03 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- DR04 AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH, 6-INCH
- BG01 STEEL THRIE BEAM STRUCTURE APPROACH
- BG02 STEEL PLATE BEAM GUARD CLASS A
- BG03 ANCHORAGE FOR STEEL PLATE BEAM GUARD TYPE 2
- BG04 STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
- BG05 CRASH CUSHION 36-INCH
- LS01 SOD LAWN
- SW01 SAWING EXISTING PAVEMENT
- SW02 SAWING CONCRETE PAVEMENT FULL DEPTH
- CP01 CONCRETE PAVEMENT 7-INCH, DOWELED AND TINED

RADIUS TABLE

POINT	STATION	OFFSET	STATION	OFFSET	RADIUS
1	2846+22.71	84.72' LT	1846+24.34	86.36' RT	55'
2	2846+24.08	80.00' RT	---	---	55'
3	2844+25.54	45.00' LT	---	---	20'
4	2850+13.28	35.00' LT	---	---	10'
5	2850+50.87	35.00' LT	---	---	10'
6	2851+20.85	35.00' LT	---	---	10'
7	2851+55.85	35.00' LT	---	---	10'
8	2850+90.64	79.31' RT	---	---	40'
9	2851+75.98	55.21' RT	---	---	10'
10	2851+75.72	75.20' RT	---	---	10'

See new sheet #30

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	PLAN DETAILS	SHEET 30	E



PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	PLAN DETAILS	SHEET 30	E

FILE NAME : S:\FinalDesign\20\10330274_W\Roads\cds\021202_pd.dgn PLOT DATE : 07-DEC-2010 17:32 PLOT BY : MSCD1S PLOT NAME : 021202_pd PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

2

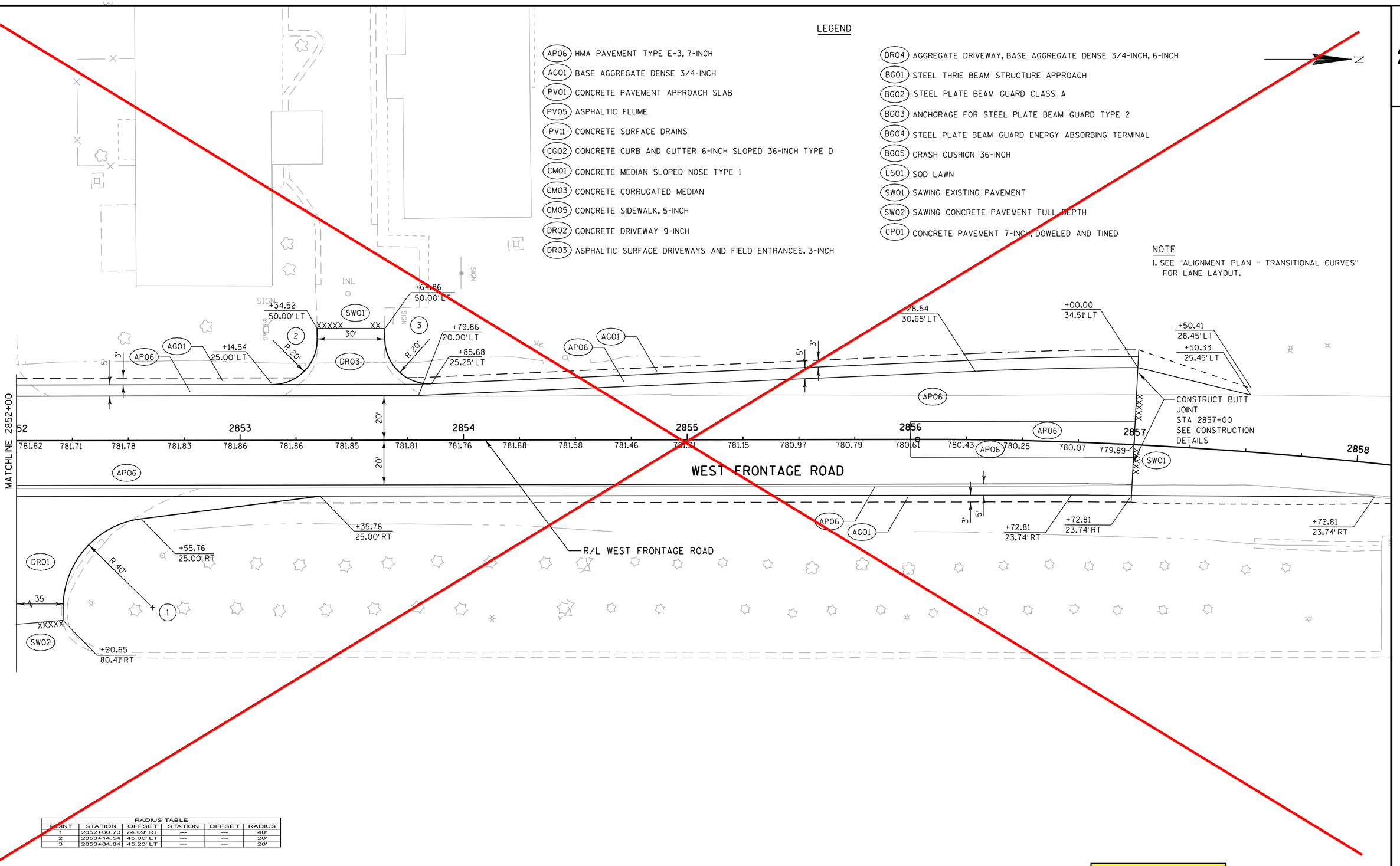
LEGEND

- (AP06) HMA PAVEMENT TYPE E-3, 7-INCH
- (AG01) BASE AGGREGATE DENSE 3/4-INCH
- (PV01) CONCRETE PAVEMENT APPROACH SLAB
- (PV05) ASPHALTIC FLUME
- (PV11) CONCRETE SURFACE DRAINS
- (CG02) CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
- (CM01) CONCRETE MEDIAN SLOPED NOSE TYPE 1
- (CM03) CONCRETE CORRUGATED MEDIAN
- (CM05) CONCRETE SIDEWALK, 5-INCH
- (DR02) CONCRETE DRIVEWAY 9-INCH
- (DR03) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- (DR04) AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH, 6-INCH
- (BG01) STEEL THRIE BEAM STRUCTURE APPROACH
- (BG02) STEEL PLATE BEAM GUARD CLASS A
- (BG03) ANCHORAGE FOR STEEL PLATE BEAM GUARD TYPE 2
- (BG04) STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
- (BG05) CRASH CUSHION 36-INCH
- (LS01) SOD LAWN
- (SW01) SAWING EXISTING PAVEMENT
- (SW02) SAWING CONCRETE PAVEMENT FULL DEPTH
- (CP01) CONCRETE PAVEMENT 7-INCH, DOWELED AND TINED

N

NOTE

1. SEE "ALIGNMENT PLAN - TRANSITIONAL CURVES" FOR LANE LAYOUT.



RADIUS TABLE

POINT	STATION	OFFSET	STATION	OFFSET	RADIUS
1	2852+60.73	74.69' RT	---	---	40'
2	2853+14.54	45.00' LT	---	---	20'
3	2853+84.84	45.23' LT	---	---	20'

See new sheet #31

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	PLAN DETAILS	SHEET 31	E

E-10

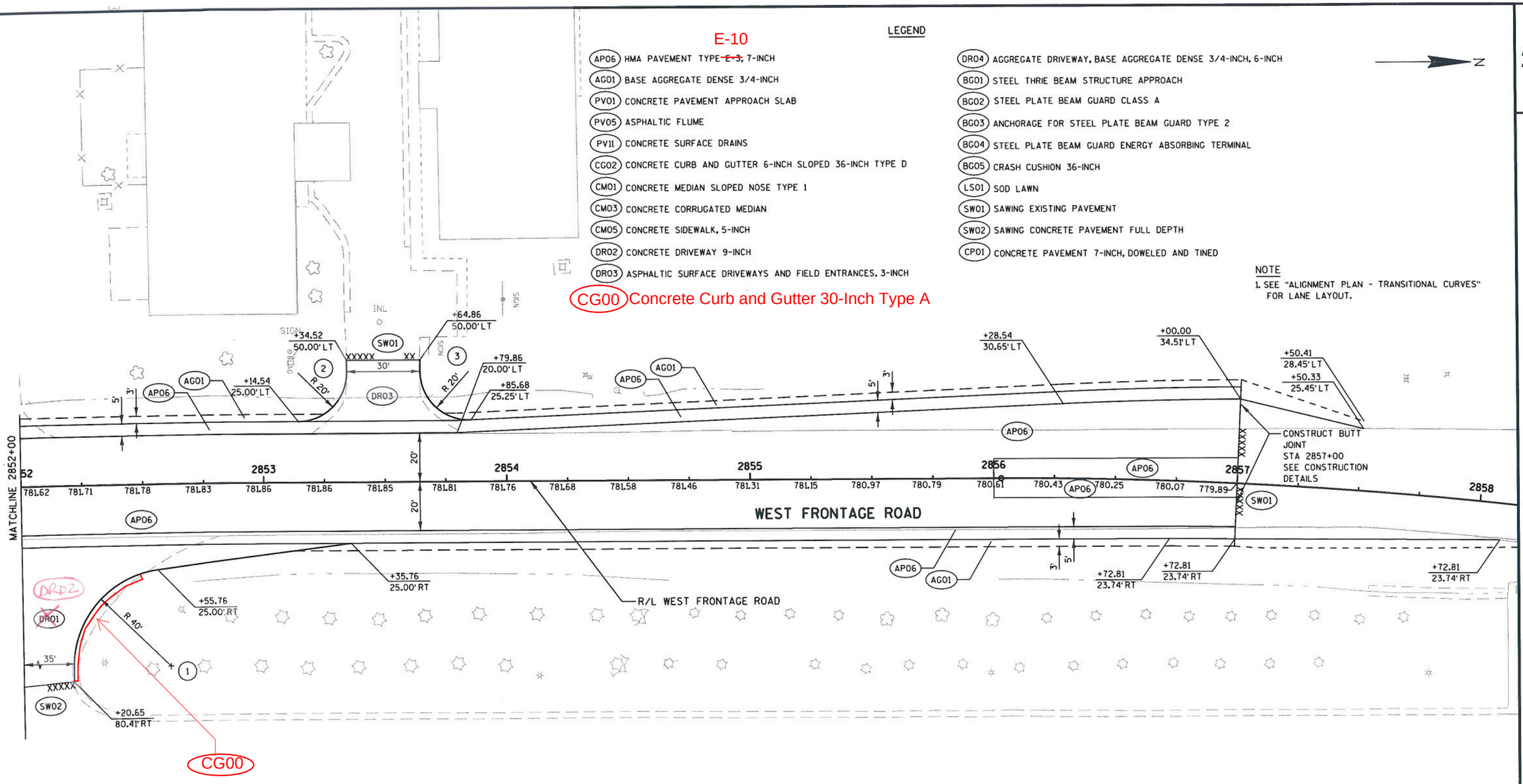
LEGEND

AP06	HMA PAVEMENT TYPE ~~E-3~~, 7-INCH
AG01	BASE AGGREGATE DENSE 3/4-INCH
PV01	CONCRETE PAVEMENT APPROACH SLAB
PV05	ASPHALTIC FLUME
PV11	CONCRETE SURFACE DRAINS
CG02	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
CM01	CONCRETE MEDIAN SLOPED NOSE TYPE 1
CM03	CONCRETE CORRUGATED MEDIAN
CM05	CONCRETE SIDEWALK, 5-INCH
DR02	CONCRETE DRIVEWAY 9-INCH
DR03	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
CG00	Concrete Curb and Gutter 30-Inch Type A
DR04	AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH, 6-INCH
BG01	STEEL THRIE BEAM STRUCTURE APPROACH
BG02	STEEL PLATE BEAM GUARD CLASS A
BG03	ANCHORAGE FOR STEEL PLATE BEAM GUARD TYPE 2
BG04	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
BG05	CRASH CUSHION 36-INCH
LS01	SOD LAWN
SW01	SAWING EXISTING PAVEMENT
SW02	SAWING CONCRETE PAVEMENT FULL DEPTH
CP01	CONCRETE PAVEMENT 7-INCH, DOWELED AND TINED

N

NOTE

1. SEE "ALIGNMENT PLAN - TRANSITIONAL CURVES" FOR LANE LAYOUT.



RADIUS TABLE

POINT	STATION	OFFSET	STATION	OFFSET	RADIUS
1	2852+60.73	74.69' RT	---	---	40'
2	2853+14.54	45.00' LT	---	---	20'
3	2853+84.84	45.23' LT	---	---	20'

NOTE
1. SEE "ALIGNMENT PLAN - TRANSITIONAL CURVES" FOR LANE LAYOUT.

CONSTRUCT BUTT JOINT STA 4868+00 SEE CONSTRUCTION DETAILS

WEST FRONTAGE ROAD

R/L WEST FRONTAGE ROAD

MATCHLINE 4873+00

WETLAND BOUNDARY (TYP.)

LEGEND

AP06	HMA PAVEMENT TYPE E-3, 7-INCH
AG01	BASE AGGREGATE DENSE 3/4-INCH
PV01	CONCRETE PAVEMENT APPROACH SLAB
PV05	ASPHALTIC FLUME
PV11	CONCRETE SURFACE DRAINS
CG02	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
CM01	CONCRETE MEDIAN SLOPED NOSE TYPE 1
CM03	CONCRETE CORRUGATED MEDIAN
CM05	CONCRETE SIDEWALK, 5-INCH
DR02	CONCRETE DRIVEWAY 9-INCH
DR03	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
DR04	AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH, 6-INCH
BG01	STEEL THRIE BEAM STRUCTURE APPROACH
BG02	STEEL PLATE BEAM GUARD CLASS A
BG03	ANCHORAGE FOR STEEL PLATE BEAM GUARD TYPE 2
BG04	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
BG05	CRASH CUSHION 36-INCH
LS01	SOD LAWN
SW01	SAWING EXISTING PAVEMENT
SW02	SAWING CONCRETE PAVEMENT FULL DEPTH
CP01	CONCRETE PAVEMENT 7-INCH, DOWELED AND TINED

RADIUS TABLE

POINT	STATION	OFFSET	STATION	OFFSET	RADIUS
1	4869+11.52	49.05' LT	---	---	20'
2	4869+86.81	46.82' LT	---	---	20'

See new sheet #32

2

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NOTE

1. SEE "ALIGNMENT PLAN - TRANSITIONAL CURVES" FOR LANE LAYOUT.

Line Curb and gutter flow line up with swale in pavement

PV05

Asphaltic Curb

PV05

CONSTRUCT BUTT JOINT STA 4868+00 SEE CONSTRUCTION DETAILS

WEST FRONTAGE ROAD

R/L WEST FRONTAGE ROAD

MATCHLINE 4873+00

WETLAND BOUNDARY (TYP.)

LEGEND

AP06	HMA PAVEMENT TYPE E-3, 7-INCH	DR04	AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH, 6-INCH
AG01	BASE AGGREGATE DENSE 3/4-INCH	BG01	STEEL THRIE BEAM STRUCTURE APPROACH
PV01	CONCRETE PAVEMENT APPROACH SLAB	BG02	STEEL PLATE BEAM GUARD CLASS A
PV05	ASPHALTIC FLUME	BG03	ANCHORAGE FOR STEEL PLATE BEAM GUARD TYPE 2
PV11	CONCRETE SURFACE DRAINS	BG04	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
CG02	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D	BG05	CRASH CUSHION 36-INCH
CM01	CONCRETE MEDIAN SLOPED NOSE TYPE 1	LS01	SOD LAWN
CM03	CONCRETE CORRUGATED MEDIAN	SW01	SAWING EXISTING PAVEMENT
CM05	CONCRETE SIDEWALK, 5-INCH	SW02	SAWING CONCRETE PAVEMENT FULL DEPTH
DR02	CONCRETE DRIVEWAY 9-INCH	CP01	CONCRETE PAVEMENT 7-INCH, DOWELED AND TINED
DR03	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH		

RADIUS TABLE

POINT	STATION	OFFSET	STATION	OFFSET	RADIUS
1	4869+11.52	49.05' LT	---	---	20'
2	4869+86.81	46.82' LT	---	---	20'

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	PLAN DETAILS	SHEET 32	E

2

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NOTE

1. SEE "ALIGNMENT PLAN - TRANSITIONAL CURVES" FOR LANE LAYOUT.

MATCHLINE 4873+00

WEST FRONTAGE ROAD

R/L WEST FRONTAGE ROAD

MATCHLINE 4879+00

WETLAND BOUNDARY (TYP.)

LEGEND

APO6	HMA PAVEMENT TYPE E-3, 7-INCH
AGO1	BASE AGGREGATE DENSE 3/4-INCH
PVO1	CONCRETE PAVEMENT APPROACH SLAB
PVO5	ASPHALTIC FLUME
PVI1	CONCRETE SURFACE DRAINS
CGO2	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
CMO1	CONCRETE MEDIAN SLOPED NOSE TYPE 1
CMO3	CONCRETE CORRUGATED MEDIAN
CMO5	CONCRETE SIDEWALK, 5-INCH
DRO2	CONCRETE DRIVEWAY 9-INCH
DRO3	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
DRO4	AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH, 6-INCH
BGO1	STEEL THRIE BEAM STRUCTURE APPROACH
BGO2	STEEL PLATE BEAM GUARD CLASS A
BGO3	ANCHORAGE FOR STEEL PLATE BEAM GUARD TYPE 2
BGO4	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
BGO5	CRASH CUSHION 36-INCH
LSO1	SOD LAWN
SWO1	SAWING EXISTING PAVEMENT
SWO2	SAWING CONCRETE PAVEMENT FULL DEPTH
CPO1	CONCRETE PAVEMENT 7-INCH, DOWELED AND TINED

RADIUS TABLE

POINT	STATION	OFFSET	STATION	OFFSET	RADIUS
1	4873+56.56	59.56' LT	---	---	15'
2	4873+47.00	55.62' LT	---	---	25'
3	4874+13.99	59.40' LT	---	---	15'
4	4874+28.27	56.00' LT	---	---	30'
5	4873+34.05	69.06' RT	---	---	35'
6	4874+46.05	70.00' RT	---	---	35'

See new sheet #33

2

N

NOTE

1. SEE "ALIGNMENT PLAN - TRANSITIONAL CURVES" FOR LANE LAYOUT.

MATCHLINE 4873+00

WEST FRONTAGE ROAD

R/L WEST FRONTAGE ROAD

MATCHLINE 4879+00

WETLAND BOUNDARY (TYP.)

LEGEND

- APO6 HMA PAVEMENT TYPE E-3, 7-INCH
- AGO1 BASE AGGREGATE DENSE 3/4-INCH
- AVO1 CONCRETE PAVEMENT APPROACH SLAB
- PVO5 ASPHALTIC FLUME
- PVI1 CONCRETE SURFACE DRAINS
- CGO2 CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
- CMO1 CONCRETE MEDIAN SLOPED NOSE TYPE 1
- CMO3 CONCRETE CORRUGATED MEDIAN
- CMO5 CONCRETE SIDEWALK, 5-INCH
- DRO2 CONCRETE DRIVEWAY 9-INCH
- DRO3 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- DRO4 AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH, 6-INCH
- BGO1 STEEL THRIE BEAM STRUCTURE APPROACH
- BGO2 STEEL PLATE BEAM GUARD CLASS A
- BGO3 ANCHORAGE FOR STEEL PLATE BEAM GUARD TYPE 2
- BGO4 STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
- BGO5 CRASH CUSHION 36-INCH
- LSO1 SOD LAWN
- SWO1 SAWING EXISTING PAVEMENT
- SWO2 SAWING CONCRETE PAVEMENT FULL DEPTH
- CPO1 CONCRETE PAVEMENT 7-INCH, DOWELED AND TINED

RADIUS TABLE

POINT	STATION	OFFSET	STATION	OFFSET	RADIUS
1	4873+56.56	59.56' LT	---	---	15'
2	4873+47.00	55.62' LT	---	---	25'
3	4874+13.99	59.40' LT	---	---	15'
4	4874+28.27	56.00' LT	---	---	30'
5	4873+34.05	69.06' RT	---	---	35'
6	4874+46.05	70.00' RT	---	---	35'

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	PLAN DETAILS	SHEET 33	E

RADIUS TABLE					
POINT	STATION	OFFSET	STATION	OFFSET	RADIUS
1	4879+90.47	65.24' LT	---	---	40'
2	4881+06.06	60.55' LT	---	---	40'
3	4881+56.81	49.14' LT	---	---	30'
4	4882+51.12	47.00' LT	---	---	30'

N

NOTE

1. SEE "ALIGNMENT PLAN - TRANSITIONAL CURVES" FOR LANE LAYOUT.

MATCHLINE 4879+00

MATCHLINE 4885+00

WEST FRONTAGE ROAD

R/L WEST FRONTAGE ROAD

+53.88
17.00' RT

LEGEND

APO6	HMA PAVEMENT TYPE E-3, 7-INCH
AGO1	BASE AGGREGATE DENSE 3/4-INCH
PVO1	CONCRETE PAVEMENT APPROACH SLAB
PVO5	ASPHALTIC FLUME
PV11	CONCRETE SURFACE DRAINS
CGO2	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
CMO1	CONCRETE MEDIAN SLOPED NOSE TYPE 1
CMO3	CONCRETE CORRUGATED MEDIAN
CMO5	CONCRETE SIDEWALK, 5-INCH
DRO2	CONCRETE DRIVEWAY 9-INCH
DRO3	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
DRO4	AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH, 6-INCH
BGO1	STEEL THRIE BEAM STRUCTURE APPROACH
BGO2	STEEL PLATE BEAM GUARD CLASS A
BGO3	ANCHORAGE FOR STEEL PLATE BEAM GUARD TYPE 2
BGO4	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
BGO5	CRASH CUSHION 36-INCH
LSO1	SOD LAWN
SWO1	SAWING EXISTING PAVEMENT
SWO2	SAWING CONCRETE PAVEMENT FULL DEPTH
CPO1	CONCRETE PAVEMENT 7-INCH, DOWELED AND TINED

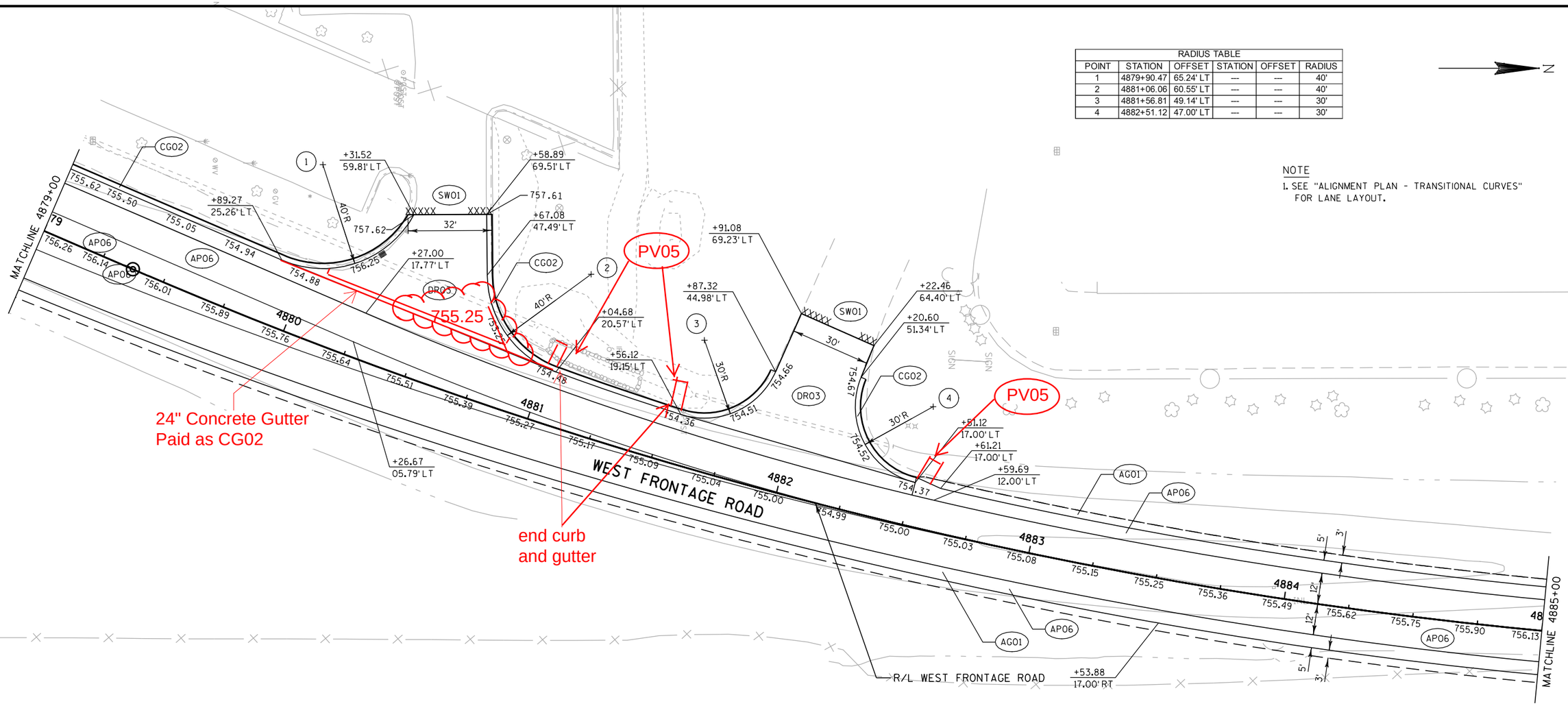
See new sheet #34

RADIUS TABLE					
POINT	STATION	OFFSET	STATION	OFFSET	RADIUS
1	4879+90.47	65.24' LT	---	---	40'
2	4881+06.06	60.55' LT	---	---	40'
3	4881+56.81	49.14' LT	---	---	30'
4	4882+51.12	47.00' LT	---	---	30'

N

NOTE

1. SEE "ALIGNMENT PLAN - TRANSITIONAL CURVES" FOR LANE LAYOUT.



LEGEND

AP06	HMA PAVEMENT TYPE E-3, 7-INCH	DR04	AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH, 6-INCH
AG01	BASE AGGREGATE DENSE 3/4-INCH	BG01	STEEL THRIE BEAM STRUCTURE APPROACH
PV01	CONCRETE PAVEMENT APPROACH SLAB	BG02	STEEL PLATE BEAM GUARD CLASS A
PV05	ASPHALTIC FLUME	BG03	ANCHORAGE FOR STEEL PLATE BEAM GUARD TYPE 2
PV11	CONCRETE SURFACE DRAINS	BG04	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
CG02	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D	BG05	CRASH CUSHION 36-INCH
CM01	CONCRETE MEDIAN SLOPED NOSE TYPE 1	LS01	SOD LAWN
CM03	CONCRETE CORRUGATED MEDIAN	SW01	SAWING EXISTING PAVEMENT
CM05	CONCRETE SIDEWALK, 5-INCH	SW02	SAWING CONCRETE PAVEMENT FULL DEPTH
DR02	CONCRETE DRIVEWAY 9-INCH	CP01	CONCRETE PAVEMENT 7-INCH, DOWELED AND TINED
DR03	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH		

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	PLAN DETAILS	SHEET 34	E

FILE NAME : S:\FinalDesign\20\10330274_W\Roads\cds\021206_pd.dgn PLOT DATE : 07-DEC-2010 17:33 PLOT BY : MSCD1S PLOT NAME : 021206_pd PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

2

LEGEND

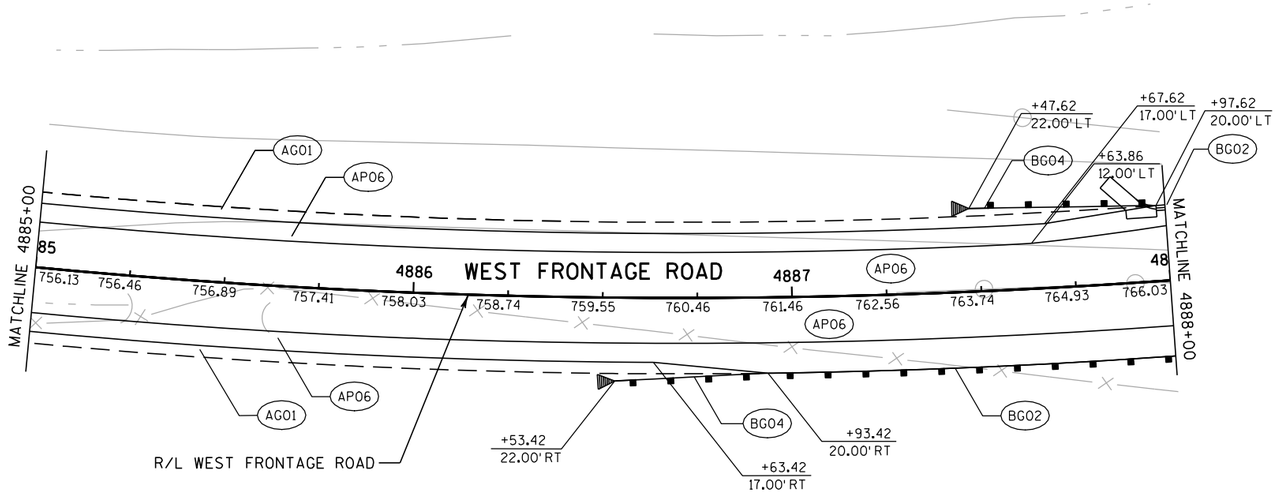
- (AP06) HMA PAVEMENT TYPE E-3, 7-INCH
- (AG01) BASE AGGREGATE DENSE 3/4-INCH
- (PV01) CONCRETE PAVEMENT APPROACH SLAB
- (PV05) ASPHALTIC FLUME
- (PV11) CONCRETE SURFACE DRAINS
- (CG02) CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
- (CM01) CONCRETE MEDIAN SLOPED NOSE TYPE 1
- (CM03) CONCRETE CORRUGATED MEDIAN
- (CM05) CONCRETE SIDEWALK, 5-INCH
- (DR02) CONCRETE DRIVEWAY 9-INCH
- (DR03) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- (DR04) AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH, 6-INCH
- (BG01) STEEL THRIE BEAM STRUCTURE APPROACH
- (BG02) STEEL PLATE BEAM GUARD CLASS A
- (BG03) ANCHORAGE FOR STEEL PLATE BEAM GUARD TYPE 2
- (BG04) STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
- (BG05) CRASH CUSHION 36-INCH
- (LS01) SOD LAWN
- (SW01) SAWING EXISTING PAVEMENT
- (SW02) SAWING CONCRETE PAVEMENT FULL DEPTH
- (CP01) CONCRETE PAVEMENT 7-INCH, DOWELED AND TINED

N

2

INL

INL



SIGN

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	PLAN DETAILS	SHEET 35	E

2

RADIUS TABLE					
POINT	STATION	OFFSET	STATION	OFFSET	RADIUS
1	4892+91.09	40.81' LT	---	---	20'
2	4893+47.82	36.97' LT	---	---	20'
3	4893+47.86	26.95' LT	---	---	10'
4	4894+08.28	26.82' LT	---	---	10'

END PROJECT
1033-02-74
STA 4896+88.00
= MATCH EXISTING

MATCHLINE 4891+00

WEST FRONTAGE ROAD

R/L WEST FRONTAGE ROAD

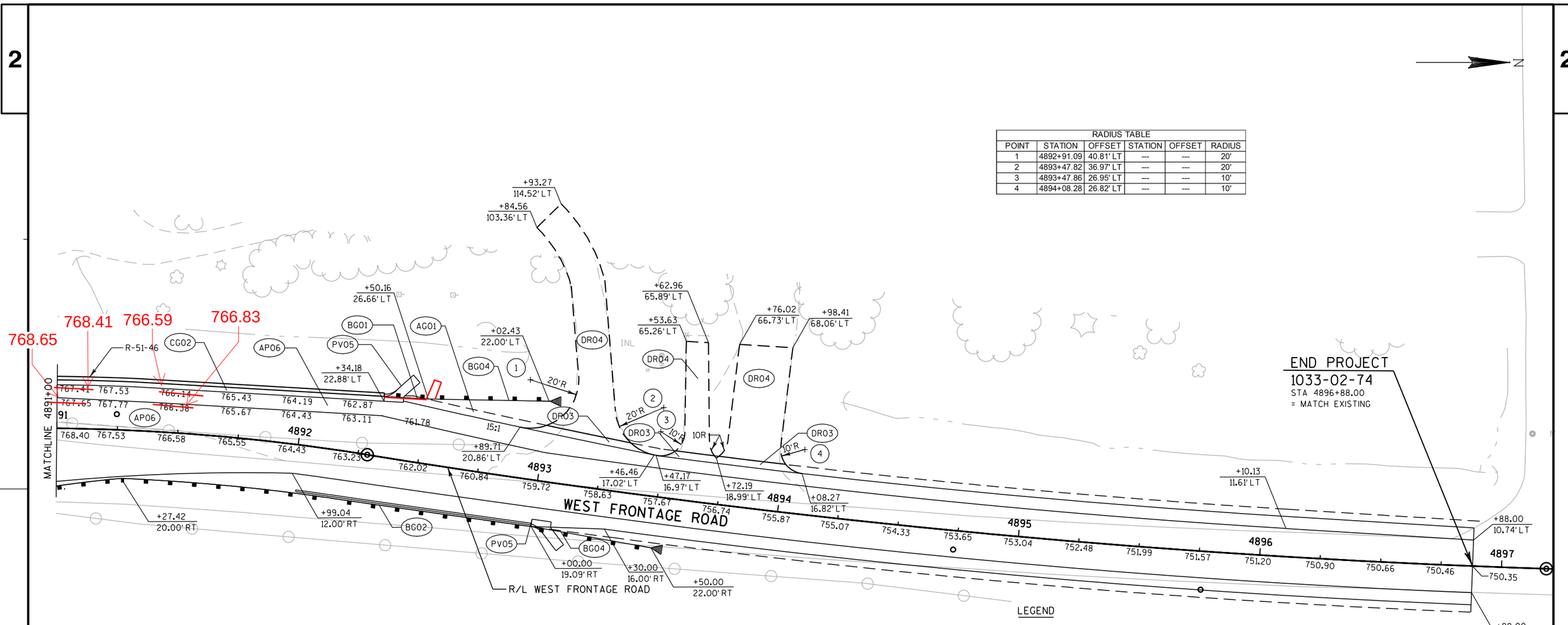
LEGEND

APO6	HMA PAVEMENT TYPE E-3, 7-INCH
AGO1	BASE AGGREGATE DENSE 3/4-INCH
PVO1	CONCRETE PAVEMENT APPROACH SLAB
PVO5	ASPHALTIC FLUME
PV11	CONCRETE SURFACE DRAINS
CGO2	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
CMO1	CONCRETE MEDIAN SLOPED NOSE TYPE 1
CMO3	CONCRETE CORRUGATED MEDIAN
CMO5	CONCRETE SIDEWALK, 5-INCH
DRO2	CONCRETE DRIVEWAY 9-INCH
DRO3	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
DRO4	AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH, 6-INCH
BGO1	STEEL THRIE BEAM STRUCTURE APPROACH
BGO2	STEEL PLATE BEAM GUARD CLASS A
BGO3	ANCHORAGE FOR STEEL PLATE BEAM GUARD TYPE 2
BGO4	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
BGO5	CRASH CUSHION 36-INCH
LSO1	SOD LAWN
SWO1	SAWING EXISTING PAVEMENT
SWO2	SAWING CONCRETE PAVEMENT FULL DEPTH
CPO1	CONCRETE PAVEMENT 7-INCH, DOWELED AND TINED

See new sheet #36

2

RADIUS TABLE					
POINT	STATION	OFFSET	STATION	OFFSET	RADIUS
1	4892+91.09	40.81' LT	---	---	20'
2	4893+47.82	36.97' LT	---	---	20'
3	4893+47.86	26.95' LT	---	---	10'
4	4894+08.28	26.82' LT	---	---	10'



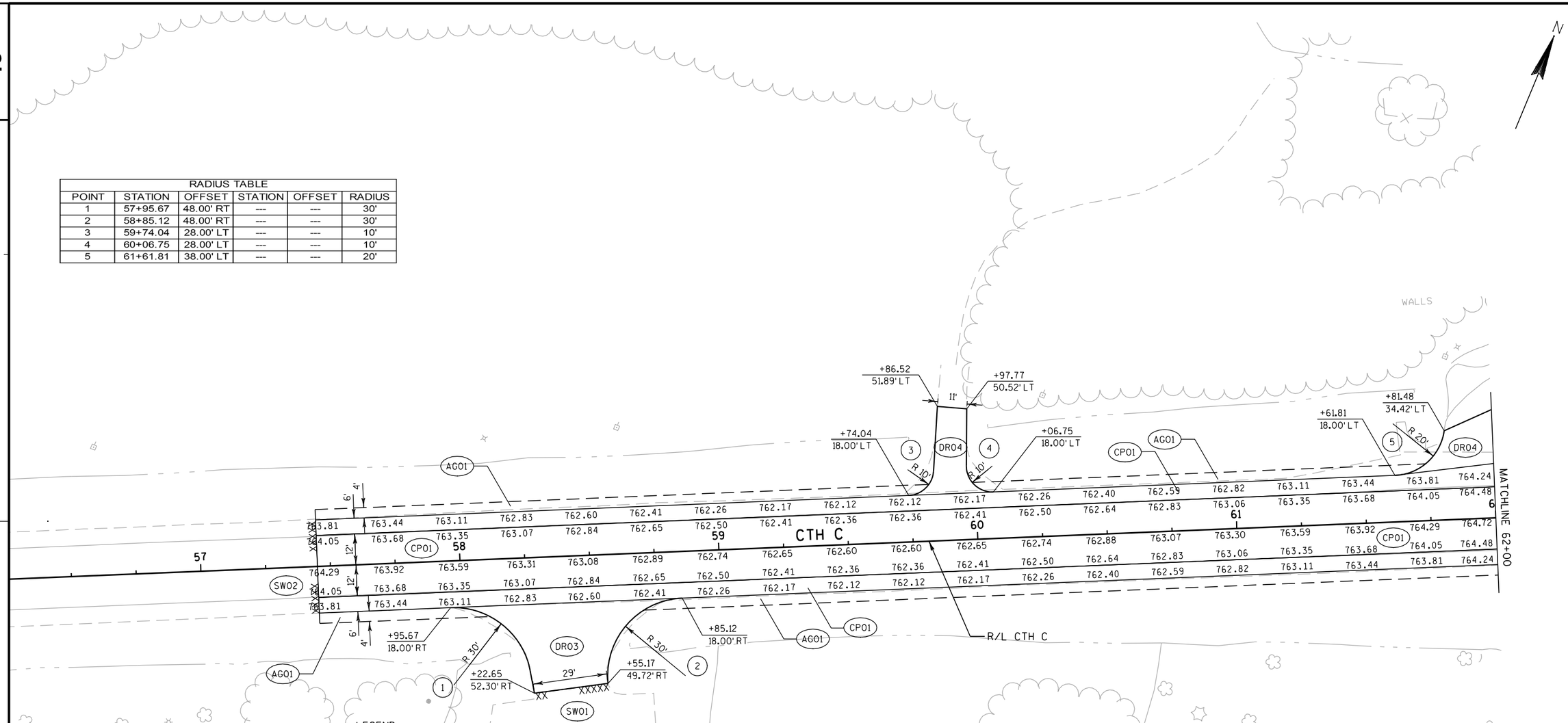
LEGEND

APO6	HMA PAVEMENT TYPE E-3, 7-INCH	DRO4	AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH, 6-INCH
AGO1	BASE AGGREGATE DENSE 3/4-INCH	BGO1	STEEL THRIE BEAM STRUCTURE APPROACH
PVO1	CONCRETE PAVEMENT APPROACH SLAB	BGO2	STEEL PLATE BEAM GUARD CLASS A
PVO5	ASPHALTIC FLUME	BGO3	ANCHORAGE FOR STEEL PLATE BEAM GUARD TYPE 2
PV11	CONCRETE SURFACE DRAINS	BGO4	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
CGO2	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D	BGO5	CRASH CUSHION 36-INCH
CMO1	CONCRETE MEDIAN SLOPED NOSE TYPE 1	LSO1	SOD LAWN
CMO3	CONCRETE CORRUGATED MEDIAN	SWO1	SAWING EXISTING PAVEMENT
CMO5	CONCRETE SIDEWALK, 5-INCH	SWO2	SAWING CONCRETE PAVEMENT FULL DEPTH
DRO2	CONCRETE DRIVEWAY 9-INCH	CPO1	CONCRETE PAVEMENT 7-INCH, DOWELED AND TINED
DRO3	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH		

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	PLAN DETAILS	SHEET 36	E

2

RADIUS TABLE					
POINT	STATION	OFFSET	STATION	OFFSET	RADIUS
1	57+95.67	48.00' RT	---	---	30'
2	58+85.12	48.00' RT	---	---	30'
3	59+74.04	28.00' LT	---	---	10'
4	60+06.75	28.00' LT	---	---	10'
5	61+61.81	38.00' LT	---	---	20'

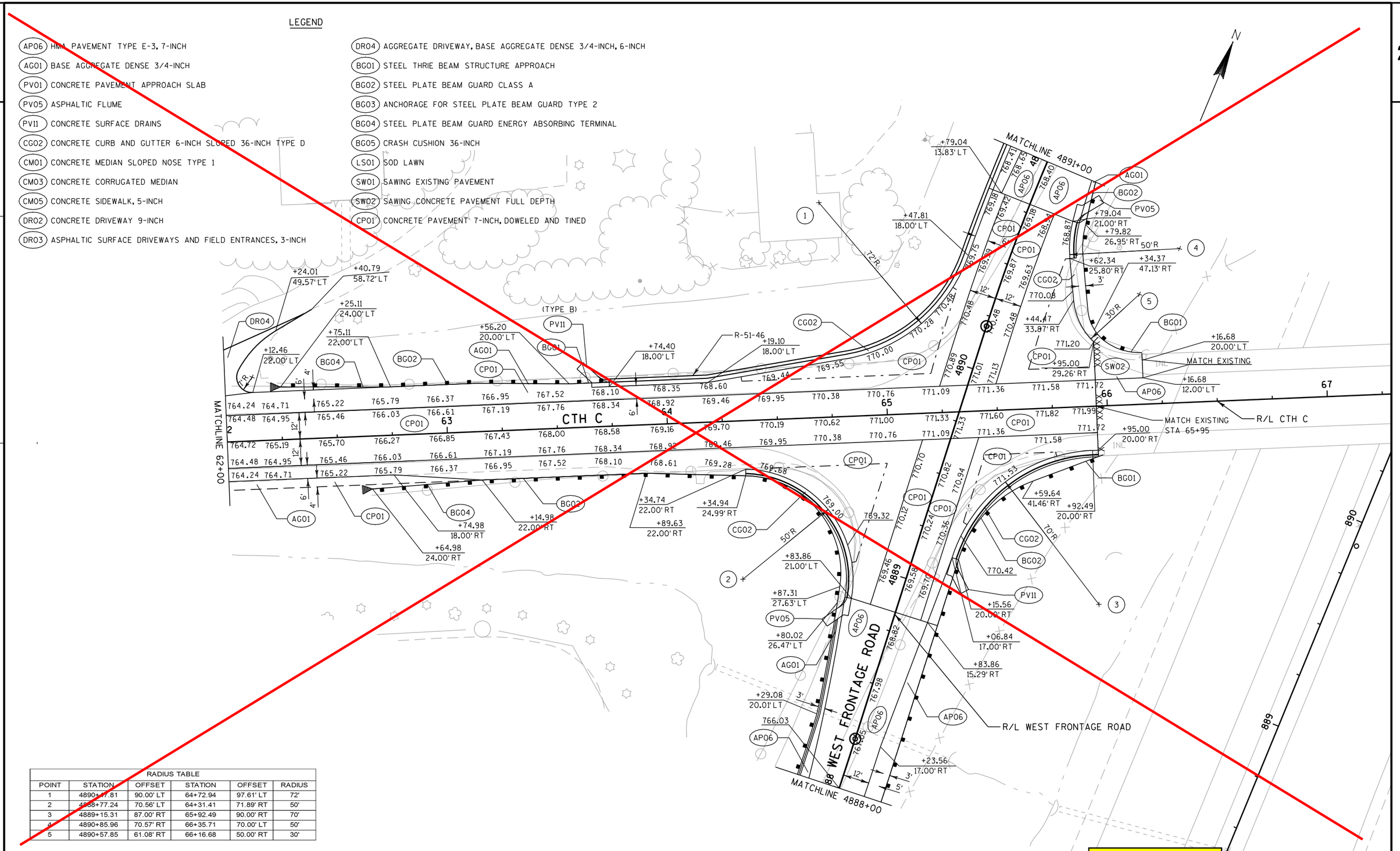


LEGEND

- APO6 HMA PAVEMENT TYPE E-3, 7-INCH
- AGO1 BASE AGGREGATE DENSE 3/4-INCH
- PVO1 CONCRETE PAVEMENT APPROACH SLAB
- PVO5 ASPHALTIC FLUME
- PVI1 CONCRETE SURFACE DRAINS
- CGO2 CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
- CMO1 CONCRETE MEDIAN SLOPED NOSE TYPE 1
- CMO3 CONCRETE CORRUGATED MEDIAN
- CMO5 CONCRETE SIDEWALK, 5-INCH
- DRO2 CONCRETE DRIVEWAY 9-INCH
- DRO3 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- DRO4 AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH, 6-INCH
- BGO1 STEEL THRIE BEAM STRUCTURE APPROACH
- BGO2 STEEL PLATE BEAM GUARD CLASS A
- BGO3 ANCHORAGE FOR STEEL PLATE BEAM GUARD TYPE 2
- BGO4 STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
- BGO5 CRASH CUSHION 36-INCH
- LSO1 SOD LAWN
- SWO1 SAWING EXISTING PAVEMENT
- SWO2 SAWING CONCRETE PAVEMENT FULL DEPTH
- CPO1 CONCRETE PAVEMENT 7-INCH, DOWELED AND TINED

LEGEND

- APO6 HMA PAVEMENT TYPE E-3, 7-INCH
- AGO1 BASE AGGREGATE DENSE 3/4-INCH
- PVO1 CONCRETE PAVEMENT APPROACH SLAB
- PVO5 ASPHALTIC FLUME
- PV11 CONCRETE SURFACE DRAINS
- CGO2 CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
- CMO1 CONCRETE MEDIAN SLOPED NOSE TYPE 1
- CMO3 CONCRETE CORRUGATED MEDIAN
- CMO5 CONCRETE SIDEWALK, 5-INCH
- DRO2 CONCRETE DRIVEWAY 9-INCH
- DRO3 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- DRO4 AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH, 6-INCH
- BGO1 STEEL THRIE BEAM STRUCTURE APPROACH
- BGO2 STEEL PLATE BEAM GUARD CLASS A
- BGO3 ANCHORAGE FOR STEEL PLATE BEAM GUARD TYPE 2
- BGO4 STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
- BGO5 CRASH CUSHION 36-INCH
- LSO1 SOD LAWN
- SWO1 SAWING EXISTING PAVEMENT
- SWO2 SAWING CONCRETE PAVEMENT FULL DEPTH
- CPO1 CONCRETE PAVEMENT 7-INCH, DOWELED AND TINED



RADIUS TABLE					
POINT	STATION	OFFSET	STATION	OFFSET	RADIUS
1	4890+17.81	90.00' LT	64+72.94	97.61' LT	72'
2	4888+77.24	70.56' LT	64+31.41	71.89' RT	50'
3	4889+15.31	87.00' RT	65+92.49	90.00' RT	70'
4	4890+85.96	70.57' RT	66+35.71	70.00' LT	50'
5	4890+57.85	61.08' RT	66+16.68	50.00' RT	30'

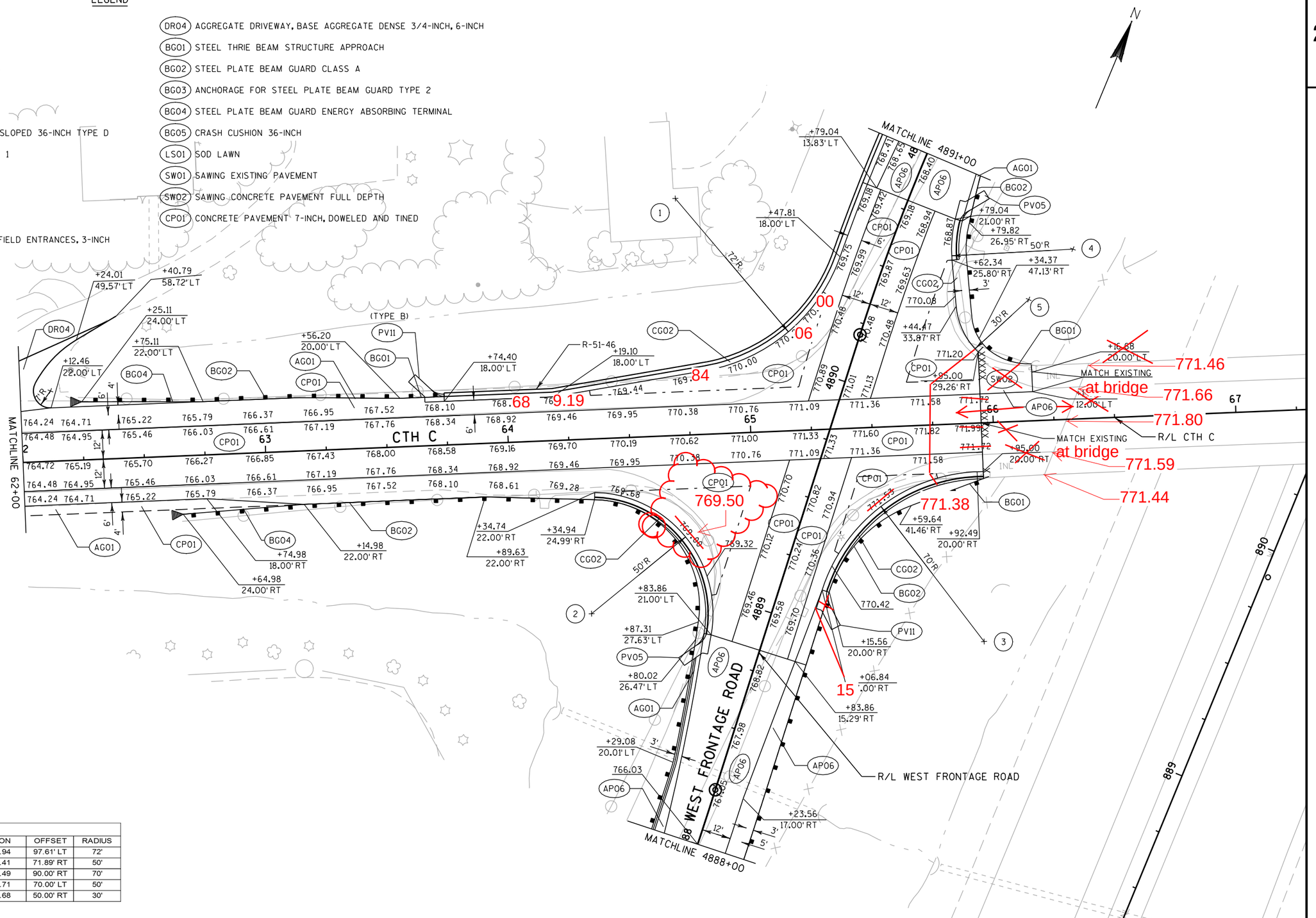
See new sheet #38

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	PLAN DETAILS	SHEET 38	E

FILE NAME : S:\FinalDesign\20\10330274_W\Roads\cds\021210_pd.dgn PLOT DATE : 07-DEC-2010 17:34 PLOT BY : MSCD1S PLOT NAME : 021210_pd PLOT SCALE : 40:1

LEGEND

APO6	HMA PAVEMENT TYPE E-3, 7-INCH
AGO1	BASE AGGREGATE DENSE 3/4-INCH
PVO1	CONCRETE PAVEMENT APPROACH SLAB
PVO5	ASPHALTIC FLUME
PV11	CONCRETE SURFACE DRAINS
CGO2	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
CMO1	CONCRETE MEDIAN SLOPED NOSE TYPE 1
CMO3	CONCRETE CORRUGATED MEDIAN
CMO5	CONCRETE SIDEWALK, 5-INCH
DRO2	CONCRETE DRIVEWAY 9-INCH
DRO3	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
DRO4	AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH, 6-INCH
BGO1	STEEL THRIE BEAM STRUCTURE APPROACH
BGO2	STEEL PLATE BEAM GUARD CLASS A
BGO3	ANCHORAGE FOR STEEL PLATE BEAM GUARD TYPE 2
BGO4	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
BGO5	CRASH CUSHION 36-INCH
LSO1	SOD LAWN
SWO1	SAWING EXISTING PAVEMENT
SWO2	SAWING CONCRETE PAVEMENT FULL DEPTH
CPO1	CONCRETE PAVEMENT 7-INCH, DOWELED AND TINED



RADIUS TABLE					
POINT	STATION	OFFSET	STATION	OFFSET	RADIUS
1	4890+47.81	90.00' LT	64+72.94	97.61' LT	72'
2	4888+77.24	70.56' LT	64+31.41	71.89' RT	50'
3	4889+15.31	87.00' RT	65+92.49	90.00' RT	70'
4	4890+85.96	70.57' RT	66+35.71	70.00' LT	50'
5	4890+57.85	61.08' RT	66+16.68	50.00' RT	30'

2

2

N

CONSTRUCTION LIMIT
1033-02-74
STA 2857+00.00

WEST FRONTAGE ROAD

1846
2848
2850
2852
2854
2856
2858
2846
2844
2842
2838
2840

SCALE

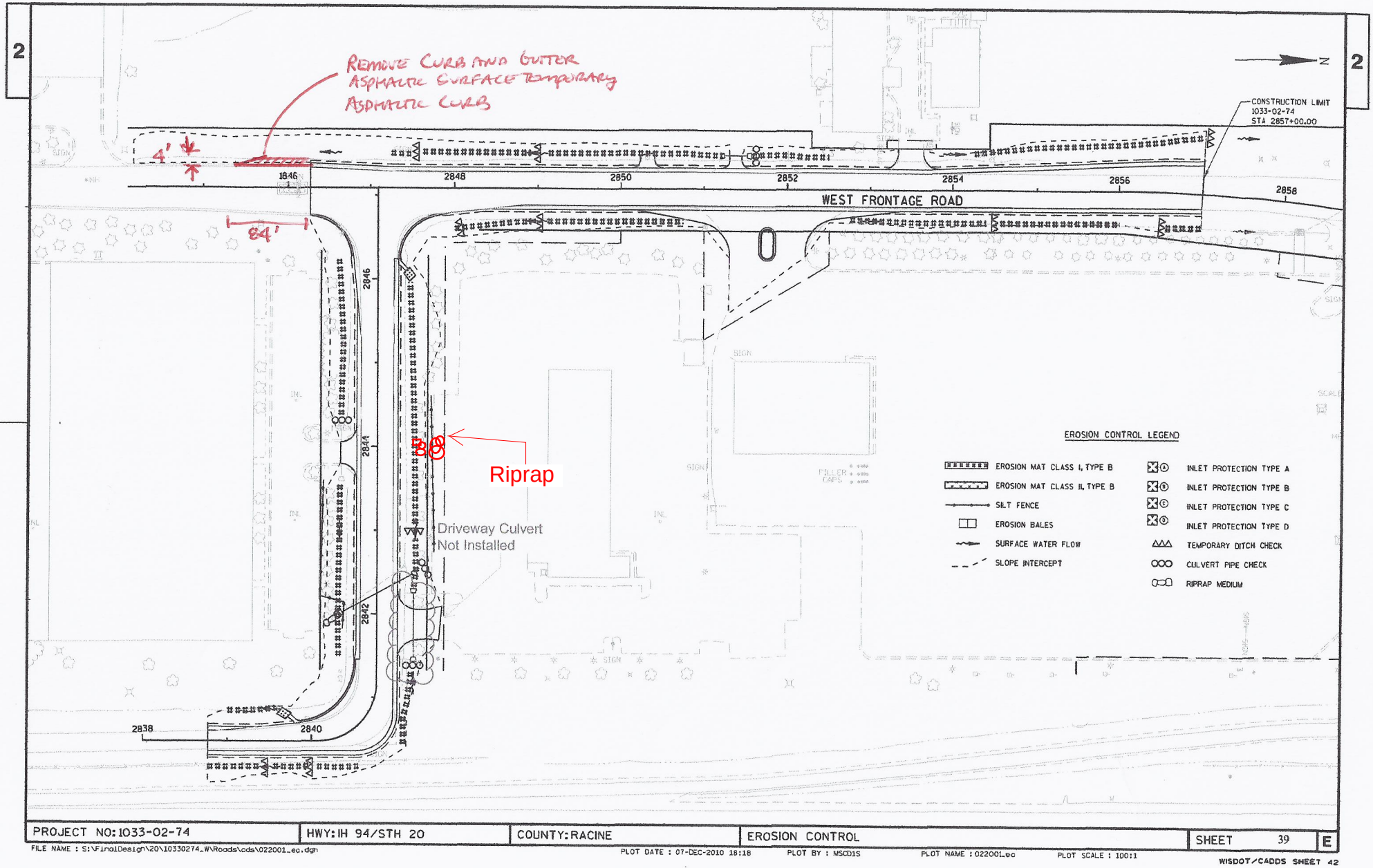
EROSION CONTROL LEGEND

- EROSION MAT CLASS I, TYPE B
- EROSION MAT CLASS II, TYPE B
- SILT FENCE
- EROSION BALES
- SURFACE WATER FLOW
- SLOPE INTERCEPT
- (A) INLET PROTECTION TYPE A
- (B) INLET PROTECTION TYPE B
- (C) INLET PROTECTION TYPE C
- (D) INLET PROTECTION TYPE D
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- RIPRAP MEDIUM

See new sheet #39

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	EROSION CONTROL	SHEET 39	E

FILE NAME : S:\FinalDesign\20\10330274_W\Roads\cds\022001_ec.dgn PLOT DATE : 07-DEC-2010 18:18 PLOT BY : MSCD1S PLOT NAME : 022001_ec PLOT SCALE : 100:1



PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	EROSION CONTROL	SHEET 39	E

FILE NAME : S:\FinalDesign\20\10330274_W\Roads\cds\022001_ec.dgn PLOT DATE : 07-DEC-2010 18:18 PLOT BY : MSCD1S PLOT NAME : 022001ec PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

2

2

N

EROSION CONTROL LEGEND

- EROSION MAT CLASS I, TYPE B
- EROSION MAT CLASS II, TYPE B
- SILT FENCE
- EROSION BALES
- SURFACE WATER FLOW
- SLOPE INTERCEPT
- (A) INLET PROTECTION TYPE A
- (B) INLET PROTECTION TYPE B
- (C) INLET PROTECTION TYPE C
- (D) INLET PROTECTION TYPE D
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- RIPRAP MEDIUM

WEST FRONTAGE ROAD

4868 4870 4872 4874 4876 4878 4880

MATCHLINE 4882+00

WETLAND BOUNDRY, (TYP)

U/C FOUND BLDG SIGN FILLER CAPS RIPRAP INL W

870 872 874 876 878 880

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	EROSION CONTROL	SHEET 40	E

FILE NAME : S:\FinalDesign\20\10330274_W\Roads\cds\022002_ec.dgn PLOT DATE : 07-DEC-2010 18:18 PLOT BY : MSCD1S PLOT NAME : 022002_ec PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

2

N

EROSION CONTROL LEGEND

- EROSION MAT CLASS I, TYPE B
- EROSION MAT CLASS II, TYPE B
- SILT FENCE
- EROSION BALES
- SURFACE WATER FLOW
- SLOPE INTERCEPT
- (A) INLET PROTECTION TYPE A
- (B) INLET PROTECTION TYPE B
- (C) INLET PROTECTION TYPE C
- (D) INLET PROTECTION TYPE D
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- RIPRAP MEDIUM
- RIPRAP HEAVY

WEST FRONTAGE ROAD

4868 4870 4872 4874 4876 4878 4880 4882+00

MATCHLINE

WETLAND BOUNDRY, (TYP)

U/C FOUND BLDG SIGN FILLER CAPS RIPRAP INL

870 872 874 876 878 880

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	EROSION CONTROL	SHEET 40	E

FILE NAME : S:\FinalDesign\20\10330274_W\Roads\cds\022002_ec.dgn PLOT DATE : 07-DEC-2010 18:18 PLOT BY : MSCD1S PLOT NAME : 022002_ec PLOT SCALE : 100:1

2

CONSTRUCTION LIMIT
1033-02-74
STA 57+45.00

58
60
62
64
66
CTH C
FOOTBRIDGE
WALLS
MH
MATCHLINE 4882+00
82
4884
4886
4888
4890
4892
4894
4896
WEST FRONTAGE ROAD
SIGN
882
884
886
888
890
892
894
896
INL
N

EROSION CONTROL LEGEND

- EROSION MAT CLASS I, TYPE B
- EROSION MAT CLASS II, TYPE B
- SILT FENCE
- EROSION BALES
- SURFACE WATER FLOW
- SLOPE INTERCEPT
- INLET PROTECTION TYPE A
- INLET PROTECTION TYPE B
- INLET PROTECTION TYPE C
- INLET PROTECTION TYPE D
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- RIPRAP MEDIUM

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	EROSION CONTROL	SHEET 41	E

2

CONSTRUCTION LIMIT
1033-02-74
STA 57+45.00

N

EROSION CONTROL LEGEND

- EROSION MAT CLASS I, TYPE B
- EROSION MAT CLASS II, TYPE B
- SILT FENCE
- EROSION BALES
- SURFACE WATER FLOW
- SLOPE INTERCEPT
- INLET PROTECTION TYPE A
- INLET PROTECTION TYPE B
- INLET PROTECTION TYPE C
- INLET PROTECTION TYPE D
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- RIPRAP MEDIUM

Replace top 3" of Base Aggregate Dense 3/4-Inch with Limestone Traffic Bond within limits of driveways and gravel surface around MH installed during project.

MATCHLINE 4882+00

WEST FRONTAGE ROAD

CTH C

FOOTBRIDGE

WALLS

SIGN

882 884 886 888 890 892 894 896

4884 4886 4888 4890 4892 4896

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	EROSION CONTROL	SHEET 41	E

FILE NAME : S:\FinalDesign\20\10330274_W\Roads\cds\022003_ec.dgn PLOT DATE : 07-DEC-2010 18:18 PLOT BY : MSCD1S PLOT NAME : 022003_ec PLOT SCALE : 100:1

2

WEST FRONTAGE ROAD

4868 4870 4872 4874 4876 4878 4880 4882

410 411 412 409 413 414 415 416 417 417A 418 419 420 421 422 423

FILLER CAPS

SIGN

765 760 755 750 745 740 735 730

410 760.42

412 759.15

415 756.76

416 757.74

99'-36" SSPRC @ 0.77%

153'-36" SSPRC @ 0.50%

38"x60" SSPRCHE @ 1.0%

751.99

751.23

750.50

750.40

182'-38"x60" SSPRCHE @ 1.0%

749.72

417 417A 73'-24" SSPRC @ 1.22%

757.52

418 752.00

750.00

420 757.51

754.29

419 107'-24" SSPRC @ 1.30%

752.00

FINISHED PROFILE AT ℄ WEST FRONTAGE ROAD

EXISTING PROFILE AT ℄ WEST FRONTAGE ROAD

4868 4870 4872 4874 4876 4878 4880 4882

See new sheet #42

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	STORM SEWER	SHEET 42	E

FILE NAME : s:\FinalDesign\20\10330274_W\Roads\cds\022501_ss.dgn PLOT DATE : 07-DEC-2010 05:19 PLOT BY : MSCD1S PLOT NAME : PLOT SCALE : 100:1

2

WEST FRONTAGE ROAD

4868 4870 4872 4874 4876 4878 4880 4882

410 411 412 413 414 415 416 417 417A 418 419 420 421 422 423 409

410A

FILLER CAPS

SIGN

FO

INLET

765 760 755 750 745 740 735 730

24" SSPRC

410 760.42

412 759.15

415 756.76

416 757.74

754.86

99'-36" SSPRC @ 0.77%

153'-36" SSPRC @ 0.50%

182'-38"x60" SSPRCHE @ 1.0%

38"x60" SSPRCHE @ 1.0%

751.99

751.23

750.50

750.40

417 / 417A

749.72

73'-24" SSPRC @ 1.22%

418 757.52

752.00

750.00

420 757.51

754.29

107'-24" SSPRC @ 1.30%

419

752.00

FINISHED PROFILE AT ℄ WEST FRONTAGE ROAD

EXISTING PROFILE AT ℄ WEST FRONTAGE ROAD

410A 761.25 Inlet Type 9 (dual slope), 2 Type MS Covers

758.25

56' - 24" SSPRC Class IV @ 1.0%

755.42

existing 24" CMP driveway culvert end needs to be exposed for installing in inlet.

4868 4870 4872 4874 4876 4878 4880 4882

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	STORM SEWER	SHEET 42	E

FILE NAME : s:\FinalDesign\20\10330274_W\Roads\cds\022501_ss.dgn PLOT DATE : 07-DEC-2010 05:19 PLOT BY : MSCD1S PLOT NAME : PLOT SCALE : 100:1

2

2

N

WEST FRONTAGE ROAD

1846 2848 2850 2852 2854 2856

MATCHLINE 2857+00

2846 2844 2842 2840 2838

1R14 REMOVE

1R15 REMOVE NO PARKING ANY TIME

1R16 REMOVE WEST FRONTAGE ROAD

1R17 REMOVE NO PARKING ANY TIME

1R18 1R19 REMOVE 15 M.P.H.

1R20 REMOVE NO PARKING ANY TIME

1R21 REMOVE SPEED LIMIT 35

1R10 REMOVE STOP

1R09 REMOVE SPEED LIMIT 35

1R11 REMOVE STOP

1R12 REMOVE CENTER LANE ONLY

1R13 REMOVE SPEED LIMIT 35

1R08 REMOVE STOP AHEAD

1R07 REMOVE SPEED LIMIT 35

1R01 1R02 REMOVE 15 M.P.H.

1R05 1R06 REMOVE 15 M.P.H.

1R04 REMOVE

1R03 REMOVE

SIGN

INL

MH

FILLER CAPS

See new sheet #43

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	EXISTING SIGNING	SHEET 43	E

FILE NAME : s:\FinalDesign\20\10330274_W\Roads\cds\023201_es.dgn PLOT DATE : 07-DEC-2010 05:20 PLOT BY : MSCD1S PLOT NAME : 023201_es PLOT SCALE : 100:1

2

2

N

WEST FRONTAGE ROAD

1846 2848 2850 2852 2854 2856

MATCHLINE 2857+00

2846 2844 2842

2838 2840

1R10 REMOVE STOP

1R09 REMOVE SPEED LIMIT 35

1R14 REMOVE

1R15 REMOVE NO PARKING ANY TIME

1R16 REMOVE WEST FRONTAGE ROAD

1R17 REMOVE NO PARKING ANY TIME

1R18 1R19 REMOVE 15 M.P.H.

1R20 REMOVE NO PARKING ANY TIME

1R21 REMOVE SPEED LIMIT 35

1R11 REMOVE STOP

1R12 REMOVE CENTER LANE ONLY

1R13 REMOVE SPEED LIMIT 35

1R08 REMOVE STOP AHEAD

1R07 REMOVE SPEED LIMIT 35

1R22

1R05 1R06 REMOVE 15 M.P.H.

1R01 1R02 REMOVE 15 M.P.H.

1R04 REMOVE

1R03 REMOVE

SIGN INL MH W FILLER CAPS

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	EXISTING SIGNING	SHEET 43	E

2

2

N

MATCHLINE 2857+00

WEST FRONTAGE ROAD

2858

2860

2862

2864

4866

4868

MATCHLINE 2870+00

284

286

288

290

292

STH 20

REMAIN

REMOVE

2R01

SCALE

FILLER CAPS

SIGN

INL

BLDG

FLAG

PROJECT NO: 1033-02-74 | HWY: IH 94/STH 20 | COUNTY: RACINE | EXISTING SIGNING | See new sheet #44 | SHEET 44 | E

FILE NAME : s:\FinalDesign\20\10330274_W\Roads\cds\023202_es.dgn PLOT DATE : 07-DEC-2010 05:20 PLOT BY : MSCD1S PLOT NAME : 023202_es PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

2

2

N

MATCHLINE 2857+00

WEST FRONTAGE ROAD

2858

2860

2862

2864

2866

4868

MATCHLINE 2870+00

284

286

288

290

292

STH 20

REMAIN
NO PARKING ANY TIME

REMAIN
CENTER LANE ONLY

REMAIN
DO NOT ENTER

REMAIN
FRONTAGE ROAD

REMAIN
WRONG WAY

REMAIN
SPEED LIMIT 35

REMAIN
NO PARKING ANY TIME

REMAIN
STOP

REMAIN

REMAIN
ONE WAY

REMAIN
STOP

REMOVE

2R05
Remove (sign only)

2R03

REMAIN
RIGHT LANE MUST TURN RIGHT

REMAIN

REMAIN
TO INTERSTATE 94 41 20

REMAIN

REMAIN
ONLY ONLY ONLY

REMAIN

REMAIN
STOP

REMAIN

REMAIN
STOP

REMAIN

REMAIN
ONLY

REMAIN

2R01
REMOVE

REMAIN

REMAIN
SPEED LIMIT 35

2R04
MOVE (Reinstall with new post)

REMAIN
STOP

REMAIN
WRONG WAY

REMAIN
FRONTAGE ROAD

REMAIN
DO NOT ENTER

REMAIN
TO INTERSTATE 94 41 20

REMAIN

2R02
REMOVE

SCALE

MH

SIGN

FILLER CAPS

BLDG

INL

W

FLAG

POST

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	EXISTING SIGNING	SHEET 44	E

FILE NAME : s:\FinalDesign\20\10330274_W\Roads\cds\023202_es.dgn PLOT DATE : 07-DEC-2010 05:20 PLOT BY : MSCD1S PLOT NAME : 023202_es PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

2

N

3R04
REMOVE
JCT
20

3R05
REMOVE
SPEED LIMIT
35

WEST FRONTAGE ROAD

4872
4874
4876
4878
4880
4882

MATCHLINE 2870+00

MATCHLINE 4884+00

CENTER LANE ONLY
REMOVE
3R01

SPEED LIMIT
35
REMOVE
3R02

3R06
REMOVE
DO NOT ENTER

3R07
REMOVE
CENTER LANE ONLY

REMOVE
3R03

U/C
FOUND
BLDG
SIGN
POST
GUARD POST
GUARD RAIL
CONC
INL
RIPRAP
W
GN
HH
POLE

872
874
876
878
880
882

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	EXISTING SIGNING	SHEET 45	E

FILE NAME : s:\FinalDesign\20\10330274_W\Roads\cds\023203_es.dgn PLOT DATE : 07-DEC-2010 05:20 PLOT BY : MSCD1S PLOT NAME : 023203_es PLOT SCALE : 100:1

2

2

4R11
4R12
REMOVE
STOP AHEAD

58
60
62
64
66

CTH C

FOOTBRIDGE

4R18
REMOVE
SPEED LIMIT 50

4R15
REMOVE
WEST FRONTAGE ROAD

4R16
4R17
REMOVE
STOP 4-WAY

4R10
REMOVE

4R13
REMOVE
SPEED LIMIT 35

4R14
REMOVE
COUNTY C

4R19
REMOVE
WEST COUNTY C

N Sylvania Ave
Spring ST
NOTIFY MUNICIPALITY TO REMOVE AND REPLACE

4R20
4R21
REMOVE
STOP ALL WAY

MATCHLINE 4884+00

STOP AHEAD
REMOVE
4R01

DO NOT ENTER
REMOVE
4R02

W Frontage Rd
N Sylvania Ave
NOTIFY MUNICIPALITY TO REMOVE AND REPLACE

STOP ALL WAY
REMOVE
4R03
4R04

STOP 4-WAY
REMOVE
4R05
4R06

WEST FRONTAGE ROAD
COUNTY C
REMOVE
4R08

WEST FRONTAGE ROAD
REMOVE
4R07

884 886 888 890 892 894 896 898

4884 4886 4888 4890 4892 4894 4896 4898

WEST FRONTAGE ROAD

INL MH SIGN

See new sheet #46

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	EXISTING SIGNING	SHEET 46	E

FILE NAME : s:\FinalDesign\20\10330274_W\Roads\cds\023204_es.dgn PLOT DATE : 07-DEC-2010 05:20 PLOT BY : MSCD1S PLOT NAME : 023204_es PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

2

2

4R22

4R11

4R12

REMOVE

STOP AHEAD

58

60

62

64

CTH C

FOOTBRIDGE

WALLS

MH

4R18

REMOVE

SPEED LIMIT 50

4R15

REMOVE

WEST FRONTAGE ROAD

4R16

4R17

REMOVE

STOP 4-WAY

4R10

REMOVE

4R13

REMOVE

SPEED LIMIT 35

INL

4R14

REMOVE

COUNTY C

4R19

REMOVE

WEST COUNTY C

N Sylvania Ave

Spring ST

NOTIFY MUNICIPALITY TO REMOVE AND REPLACE

4R20

4R21

REMOVE

STOP ALL WAY

MATCHLINE 4884+00

884

886

888

890

4886

4888

4890

4892

4894

4896

4898

WEST FRONTAGE ROAD

STOP AHEAD

REMOVE

4R01

DO NOT ENTER

REMOVE

4R02

SIGN

W Frontage Rd

N Sylvania Ave

NOTIFY MUNICIPALITY TO REMOVE AND REPLACE

STOP ALL WAY

REMOVE

4R03

4R04

STOP 4-WAY

REMOVE

4R05

4R06

WEST FRONTAGE ROAD

REMOVE

4R07

COUNTY C

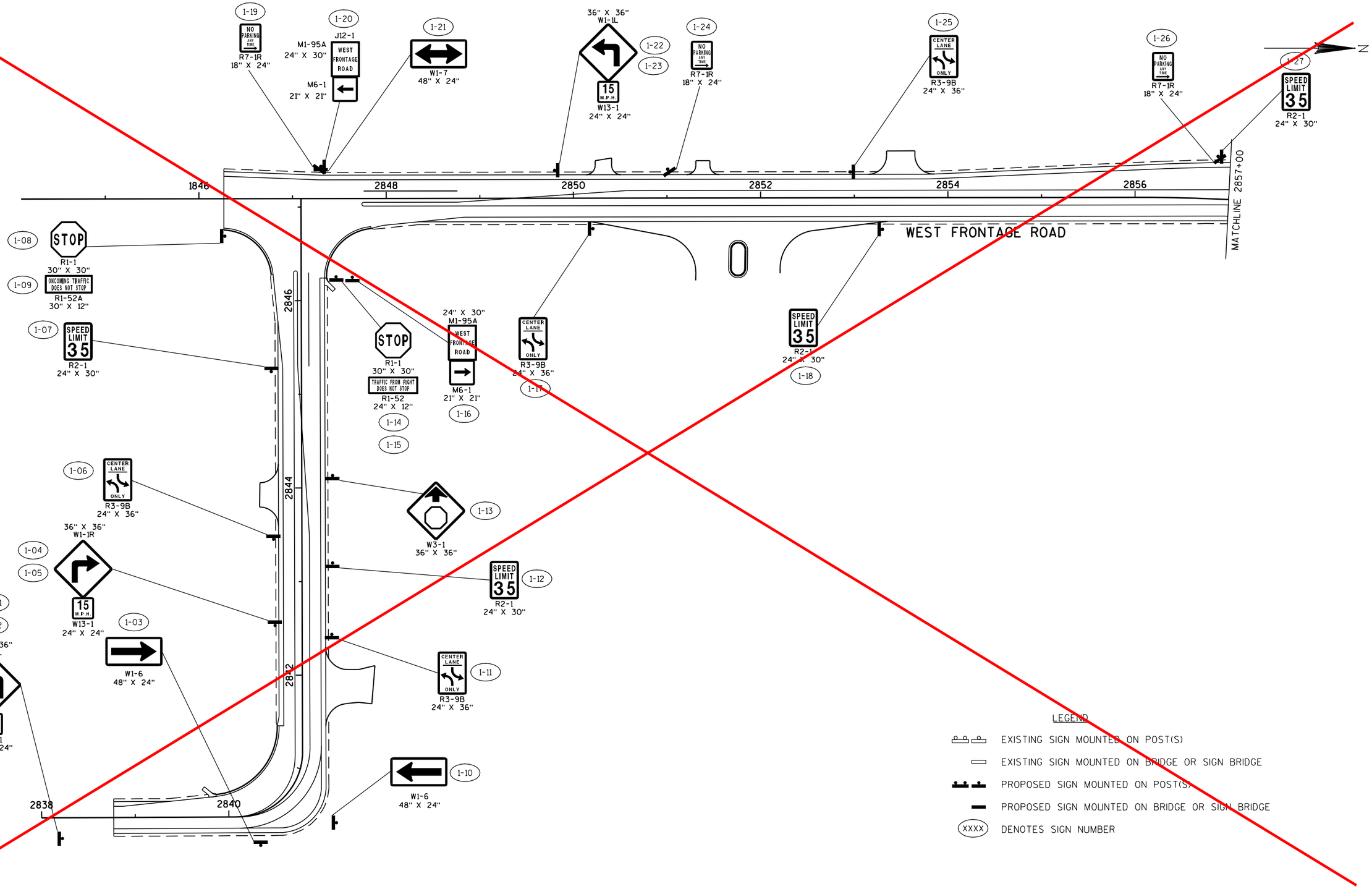
REMOVE

4R08

SIGN

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	EXISTING SIGNING	SHEET 46	E

FILE NAME : s:\FinalDesign\20\10330274_W\Roads\cds\023204_es.dgn PLOT DATE : 07-DEC-2010 05:20 PLOT BY : MSCD1S PLOT NAME : 023204_es PLOT SCALE : 100:1



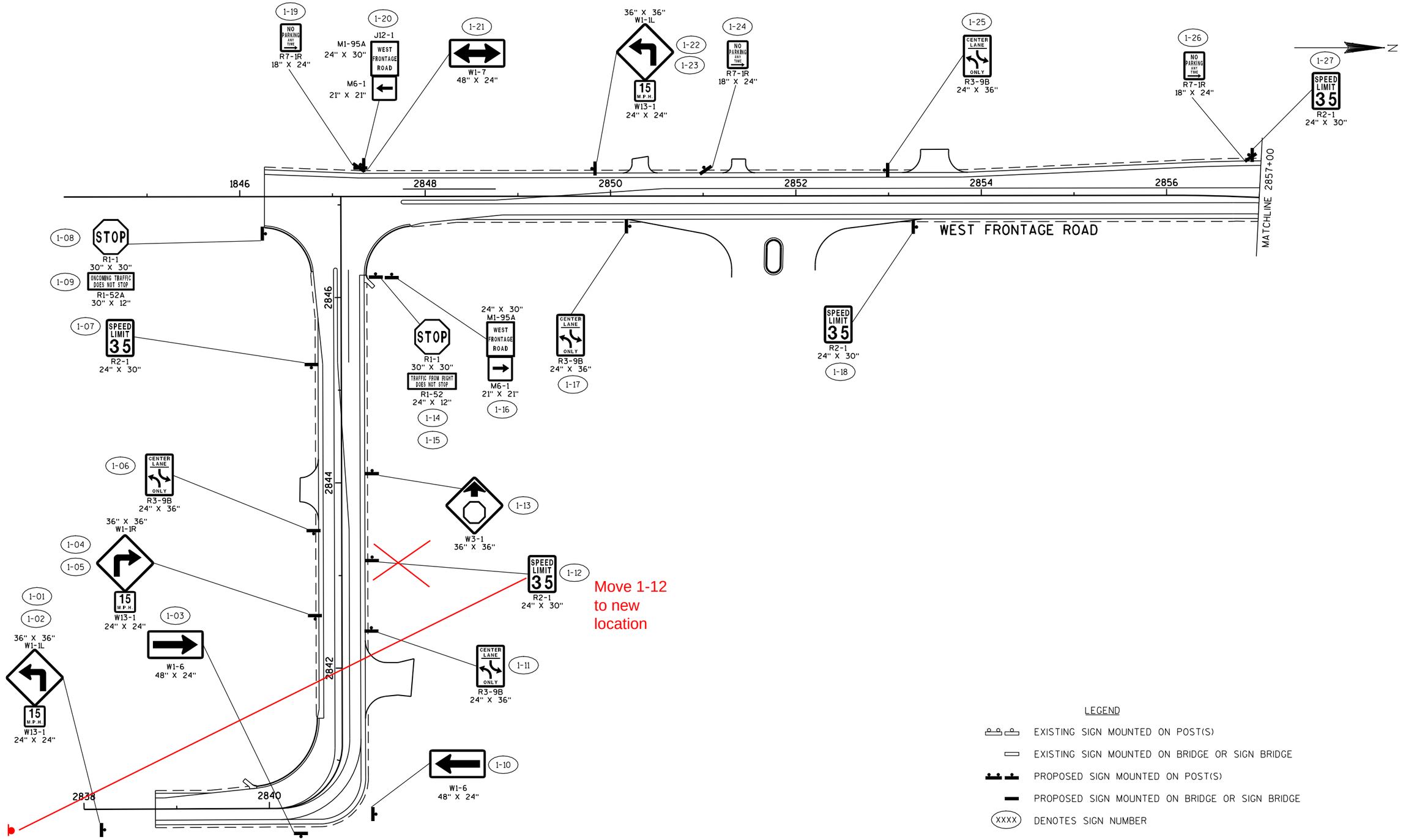
LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- XXXX DENOTES SIGN NUMBER

See new sheet #47

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	PERMANENT SIGNING	SHEET 47	E

FILE NAME : s:\FinalDesign\20\10330274_W\Roads\cds\023205_ps.dgn PLOT DATE : 07-DEC-2010 05:21 PLOT BY : MSCD1S PLOT NAME : 023205_ps PLOT SCALE : 100:1



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 BRIDGE OR SIGN BRIDGE
- (XXXX) DENOTES SIGN NUMBER

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	PERMANENT SIGNING	SHEET 47	E

FILE NAME : s:\FinalDesign\20\10330274_W\Roads\cds\023205_ps.dgn PLOT DATE : 07-DEC-2010 05:21 PLOT BY : MSCD1S PLOT NAME : 023205_ps PLOT SCALE : 100:1

2

N

MATCHLINE 2857+00

2858

2860

2862

2864

284

286

288

290

292

4866

4868

48

MATCHLINE 4870+00

JCT
20
J1-1
24" X 39"
2-01

2-04
W3-3
36" X 36"

WEST FRONTAGE ROAD

WEST FRONTAGE ROAD
M1-95A
24" X 30"
2-02

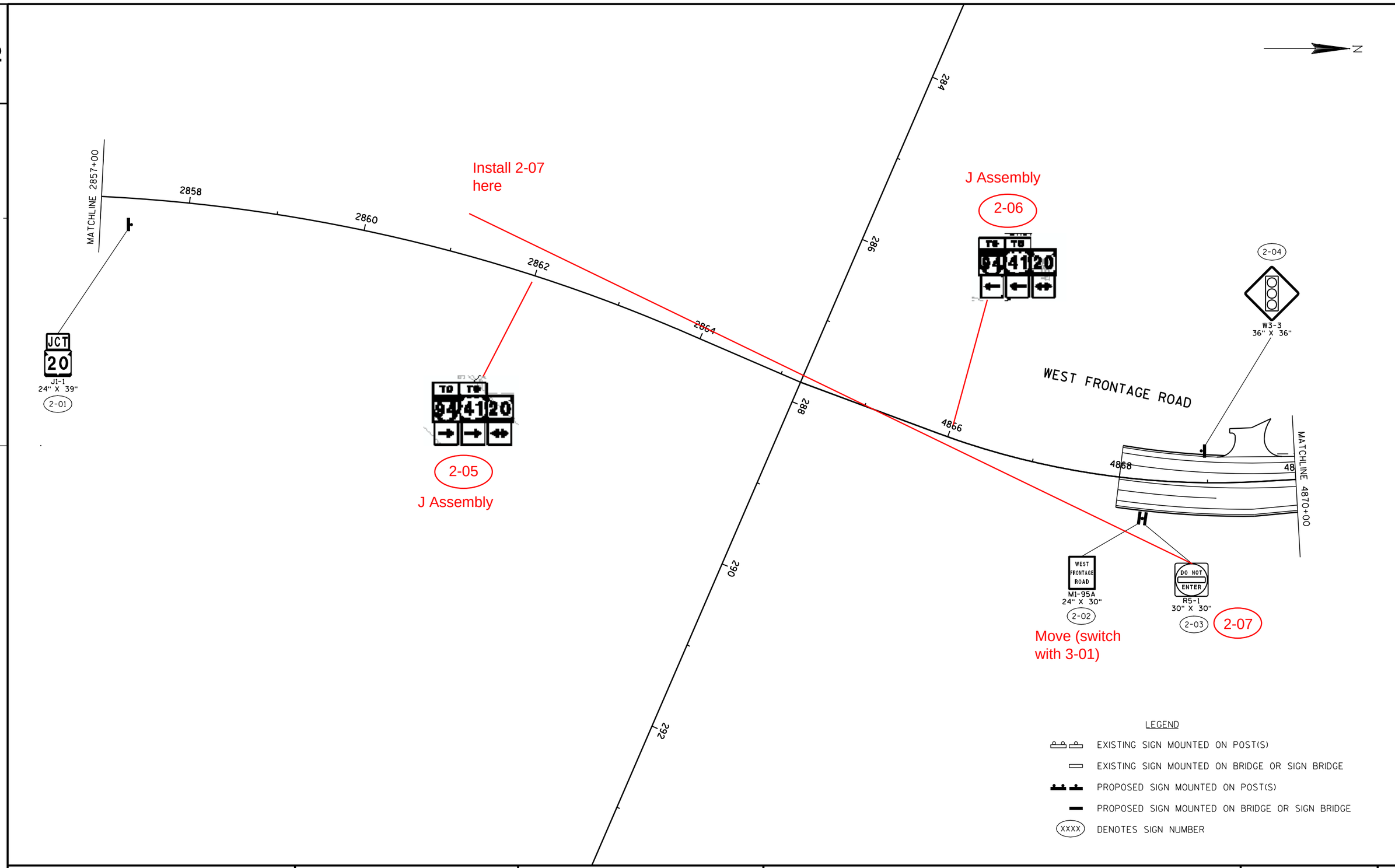
DO NOT ENTER
R5-1
30" X 30"
2-03

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 BRIDGE OR SIGN BRIDGE
- XXXX DENOTES SIGN NUMBER

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	PERMANENT SIGNING	See new sheet #48	SHEET 48	E

FILE NAME : s:\FinalDesign\20\10330274_W\Roads\cds\023206_ps.dgn PLOT DATE : 07-DEC-2010 05:21 PLOT BY : MSCD1S PLOT NAME : 023206_ps PLOT SCALE : 100:1



PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	PERMANENT SIGNING	SHEET 48	E

2

N

3-06

JCT
20

J1-1
24" X 39"

MATCHLINE 4870+00

4872

4874

4876

4878

4880

4882

MATCHLINE 4884+00

WEST FRONTAGE ROAD

3-07

SPEED LIMIT 35

R2-1
24" X 30"

3-08

CENTER LANE ONLY

R3-9B
24" X 36"

CENTER LANE ONLY

R3-9B
24" X 36"

3-01

SPEED LIMIT 35

R2-1
24" X 30"

3-02

24" X 36"
R3-9B

CENTER LANE ONLY

END

M4-6
24" X 12"

3-03

3-04

JCT
COUNTY C

J1-1
24" X 39"

3-05

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 BRIDGE OR SIGN BRIDGE
- XXXX DENOTES SIGN NUMBER

872 874 876 878 880 882

See new sheet #49

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	PERMANENT SIGNING	SHEET 49	E

FILE NAME : s:\FinalDesign\20\10330274_W\Roads\cds\023207_ps.dgn PLOT DATE : 07-DEC-2010 05:21 PLOT BY : MSCD1S PLOT NAME : 023207_ps PLOT SCALE : 100:1

2

N

3-06

JCT
20

J1-1
24" X 39"

MATCHLINE 4870+00

4872

4874

4876

4878

4880

4882

4884+00

WEST FRONTAGE ROAD

3-07

SPEED LIMIT 35

R2-1
24" X 30"

3-08

CENTER LANE ONLY

R3-9B
24" X 36"

CENTER LANE ONLY

R3-9B
24" X 36"

3-01

3-09

Move 3-01 (Switch with 2-02)

SPEED LIMIT 35

R2-1
24" X 30"

3-02

24" X 36"
R3-9B
CENTER LANE ONLY

END

M4-6
24" X 12"

3-03

3-04

Move (switch signs with "End" on top)

JCT
COUNTY C

J1-1
24" X 39"

3-05

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 BRIDGE OR SIGN BRIDGE
- XXXX DENOTES SIGN NUMBER

872 874 876 878 880 882

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	PERMANENT SIGNING	SHEET 49	E

FILE NAME : s:\FinalDesign\20\10330274_W\Roads\cds\023207_ps.dgn PLOT DATE : 07-DEC-2010 05:21 PLOT BY : MSCD1S PLOT NAME : 023207_ps PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

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 BRIDGE OR SIGN BRIDGE
- (XXXX) DENOTES SIGN NUMBER

N

4-16
4-17
W3-1
36" X 36"

58
60
CTY C
62
64
66

4-14
4-15
30" X 30"
R1-1
STOP
ALL WAY
R1-4
18" X 6"

4-13
24" X 30"
M1-95A
WEST FRONTAGE ROAD
M6-4
21" X 21"

4-18
SPEED LIMIT 50
R2-1
24" X 30"

4-19
24" X 24"
M1-5A
COUNTY C
M6-4
21" X 21"

4-20
4-21
30" X 30"
R1-1
STOP
ALL WAY
R1-4
18" X 6"

4-11
24" X 30"
M1-95A
WEST FRONTAGE ROAD

4-12
SPEED LIMIT 35
R2-1
24" X 30"

MATCHLINE 4884+00

4884
4886
4888
4890
4892
4894
4896
4898

WEST FRONTAGE ROAD

30" X 30"
R1-1
STOP
ALL WAY
R1-4
18" X 6"

24" X 24"
M1-5A
COUNTY C
J13-1
24" X 45"

24" X 30"
M1-95A
WEST FRONTAGE ROAD

30" X 30"
R1-1
STOP
ALL WAY
R1-4
18" X 6"

4-05
4-06
4-07

W3-1
36" X 36"
4-01
4-02
4-03
4-04

884
886
888
890
892
894
896
898

See new sheet #50

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	PERMANENT SIGNING	SHEET 50	E

FILE NAME : s:\FinalDesign\20\10330274_W\Roads\cds\023208_ps.dgn PLOT DATE : 07-DEC-2010 05:21 PLOT BY : MSCD1S PLOT NAME : 023208_ps PLOT SCALE : 100:1

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 BRIDGE OR SIGN BRIDGE
- (XXXX) DENOTES SIGN NUMBER

N

4-16
4-17
W3-1
36" X 36"

CTH C

4-14
4-15
30" X 30"
R1-1
STOP
ALL WAY
R1-4
18" X 6"

4-13
24" X 30"
M1-95A
WEST FRONTAGE ROAD
M6-4
21" X 21"

4-18
SPEED LIMIT 50
R2-1
24" X 30"

4-19
24" X 24"
M1-5A
COUNTY C
M6-4
21" X 21"

4-20
4-21
30" X 30"
R1-1
STOP
ALL WAY
R1-4
18" X 6"

4-11
24" X 30"
M1-95A
WEST FRONTAGE ROAD

4-12
SPEED LIMIT 35
R2-1
24" X 30"

4-24
Place 150' South of 50th Ave./Kraut Rd.
4-23
4-22
45

MATCHLINE 4884+00

WEST FRONTAGE ROAD

30" X 30"
R1-1
STOP
ALL WAY
R1-4
18" X 6"
4-02
4-03

24" X 24"
M1-5A
COUNTY C
J13-1
24" X 45"
4-04

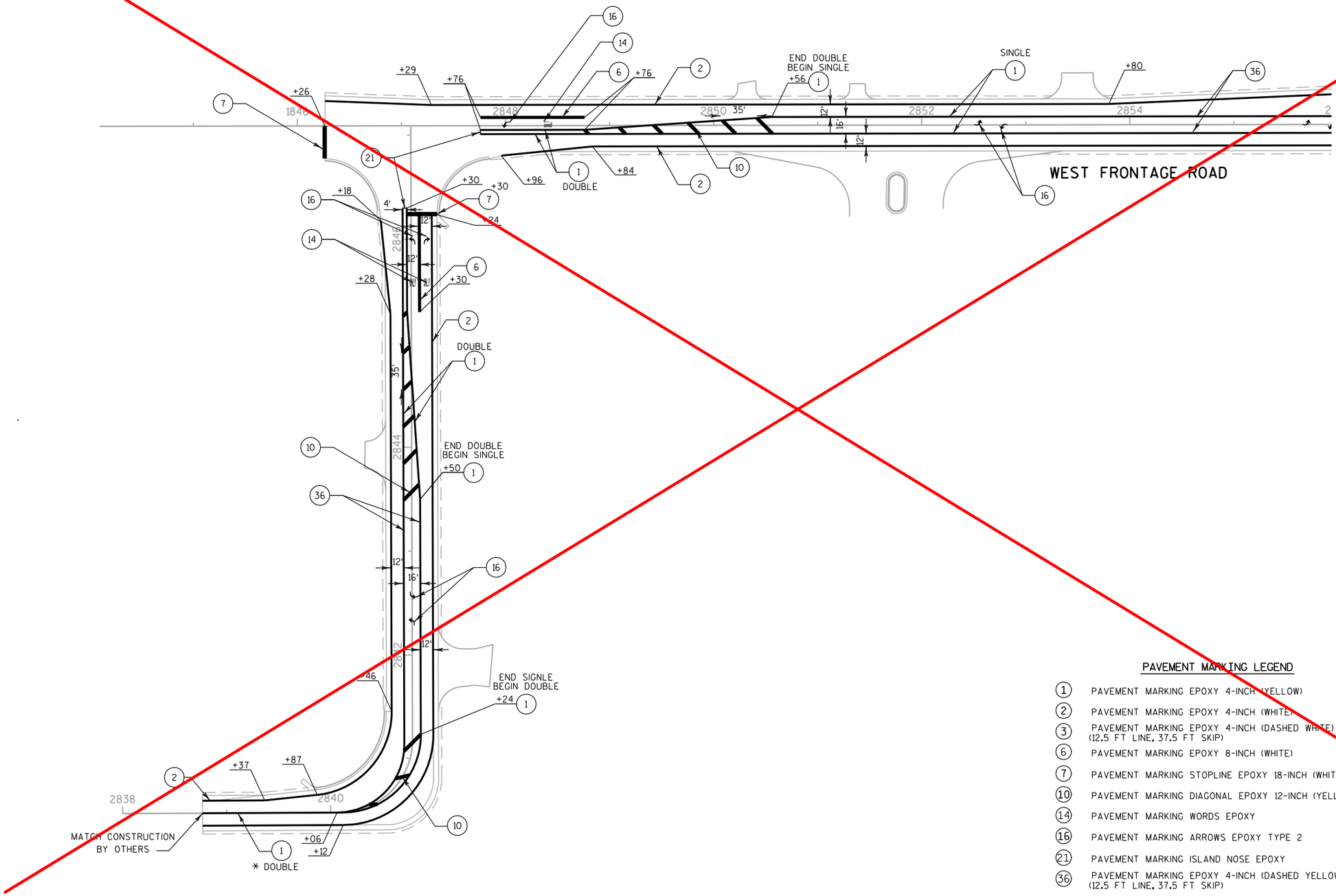
4-05
4-06
30" X 30"
R1-1
STOP
ALL WAY
R1-4
18" X 6"

24" X 30"
M1-95A
WEST FRONTAGE ROAD
M6-4
21" X 21"
4-07

4-01
W3-1
36" X 36"

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACIONE	PERMANENT SIGNING	SHEET 50	E

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

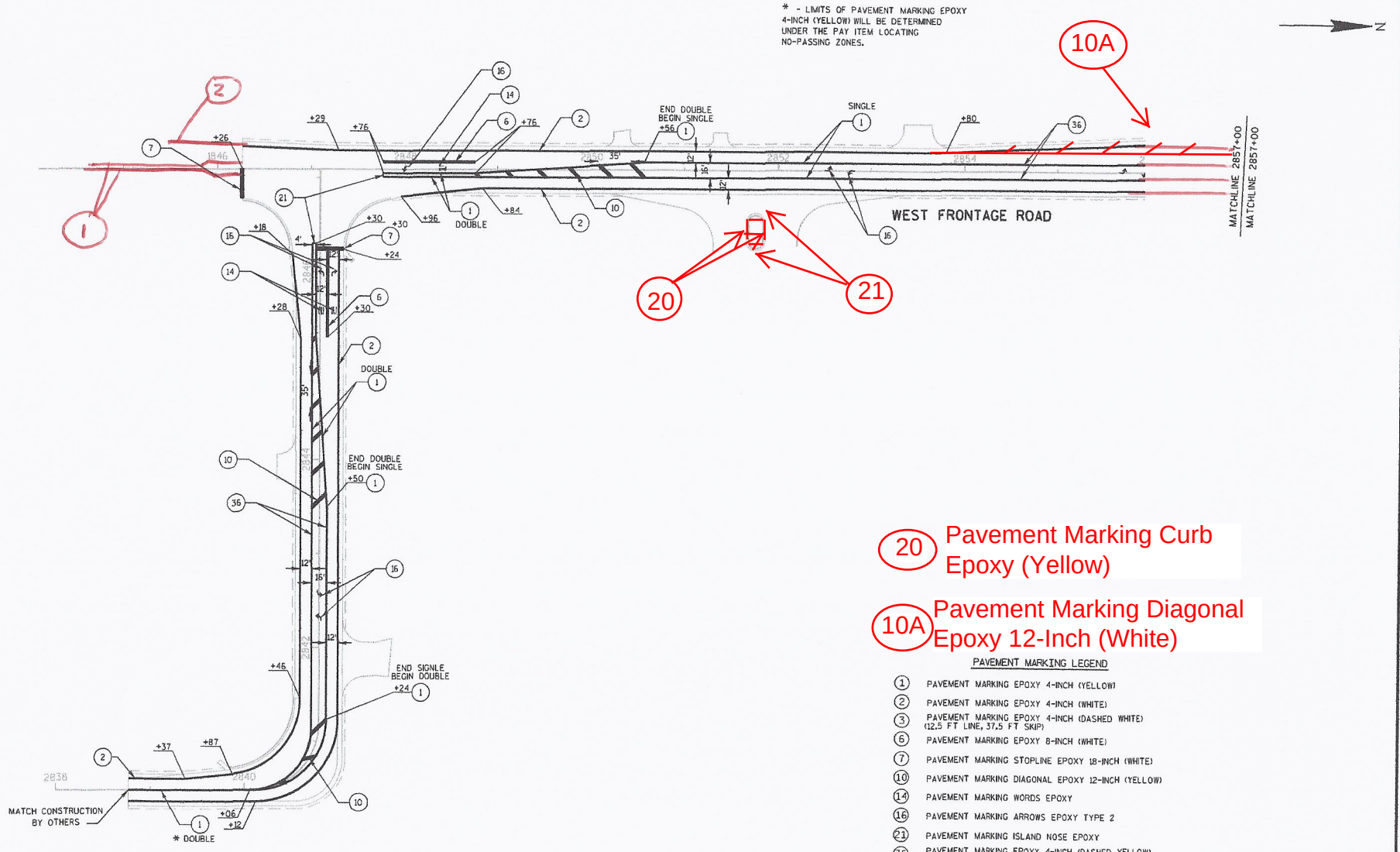


PAVEMENT MARKING LEGEND

1	PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
2	PAVEMENT MARKING EPOXY 4-INCH (WHITE)
3	PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE) (12.5 FT LINE, 37.5 FT SKIP)
6	PAVEMENT MARKING EPOXY 8-INCH (WHITE)
7	PAVEMENT MARKING STOPLINE EPOXY 18-INCH (WHITE)
10	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
14	PAVEMENT MARKING WORDS EPOXY
16	PAVEMENT MARKING ARROWS EPOXY TYPE 2
21	PAVEMENT MARKING ISLAND NOSE EPOXY
36	PAVEMENT MARKING EPOXY 4-INCH (DASHED YELLOW) (12.5 FT LINE, 37.5 FT SKIP)

See new sheet #51

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	PAVEMENT MARKING	SHEET 51	E



PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	PAVEMENT MARKING	SHEET 51	E

FILE NAME : s:\FinalDesign\20\1033027 4_W\Roads\cds\024501_pm.dgn PLOT DATE : 07-DEC-2010 05:21 PLOT BY : MSCD1S PLOT NAME : 024501_pm PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

2

2

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

N

MATCHLINE 2857+00

2858

2860

2862

2864

284

286

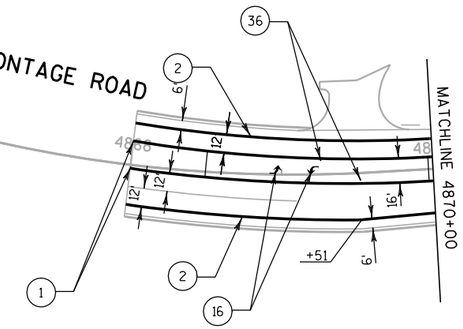
288

290

292

4866

WEST FRONTAGE ROAD



PAVEMENT MARKING LEGEND

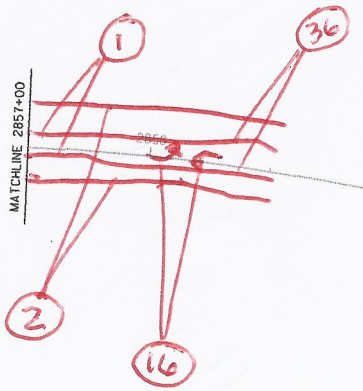
1. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
2. PAVEMENT MARKING EPOXY 4-INCH (WHITE)
3. PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE) (12.5 FT LINE, 37.5 FT SKIP)
6. PAVEMENT MARKING EPOXY 8-INCH (WHITE)
7. PAVEMENT MARKING STOPLINE EPOXY 18-INCH (WHITE)
10. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
14. PAVEMENT MARKING WORDS EPOXY
16. PAVEMENT MARKING ARROWS EPOXY TYPE 2
21. PAVEMENT MARKING ISLAND NOSE EPOXY
36. PAVEMENT MARKING EPOXY 4-INCH (DASHED YELLOW) (12.5 FT LINE, 37.5 FT SKIP)

See new sheet #52

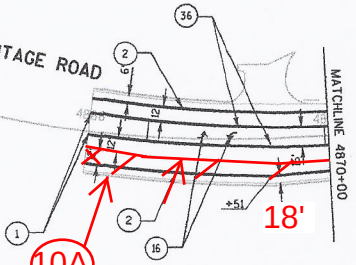
PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	PAVEMENT MARKING	SHEET 52	E

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

N



2860
2862
2864
4866
WEST FRONTAGE ROAD



10A

10A Pavement Marking Diagonal Epoxy 12-Inch White

PAVEMENT MARKING LEGEND

1	PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
2	PAVEMENT MARKING EPOXY 4-INCH (WHITE)
3	PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE) (12.5 FT LINE, 37.5 FT SKIP)
6	PAVEMENT MARKING EPOXY 8-INCH (WHITE)
7	PAVEMENT MARKING STOPLINE EPOXY 18-INCH (WHITE)
10	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
14	PAVEMENT MARKING WORDS EPOXY
16	PAVEMENT MARKING ARROWS EPOXY TYPE 2
21	PAVEMENT MARKING ISLAND NOSE EPOXY
36	PAVEMENT MARKING EPOXY 4-INCH (DASHED YELLOW) (12.5 FT LINE, 37.5 FT SKIP)

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	PAVEMENT MARKING	SHEET 52	E

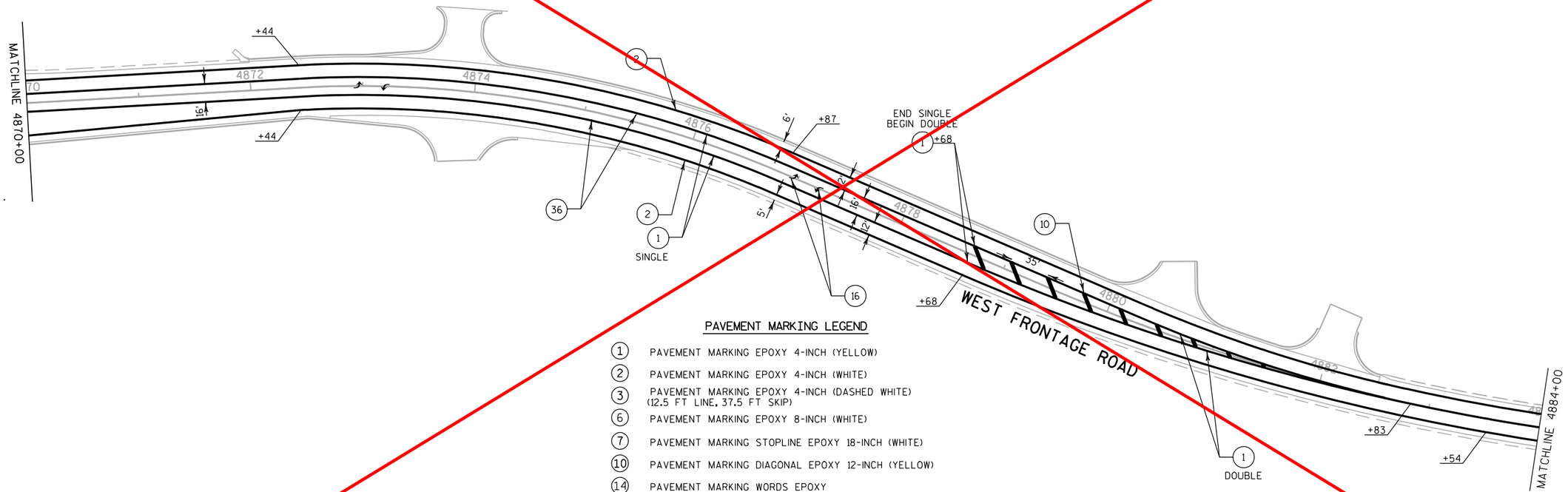
FILE NAME : s:\FinalDesign\20\10330274_W\Roads\cds\024502_pm.dgn PLOT DATE : 07-DEC-2010 05:21 PLOT BY : MSCD1S PLOT NAME : 024502_pm PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

2

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

N



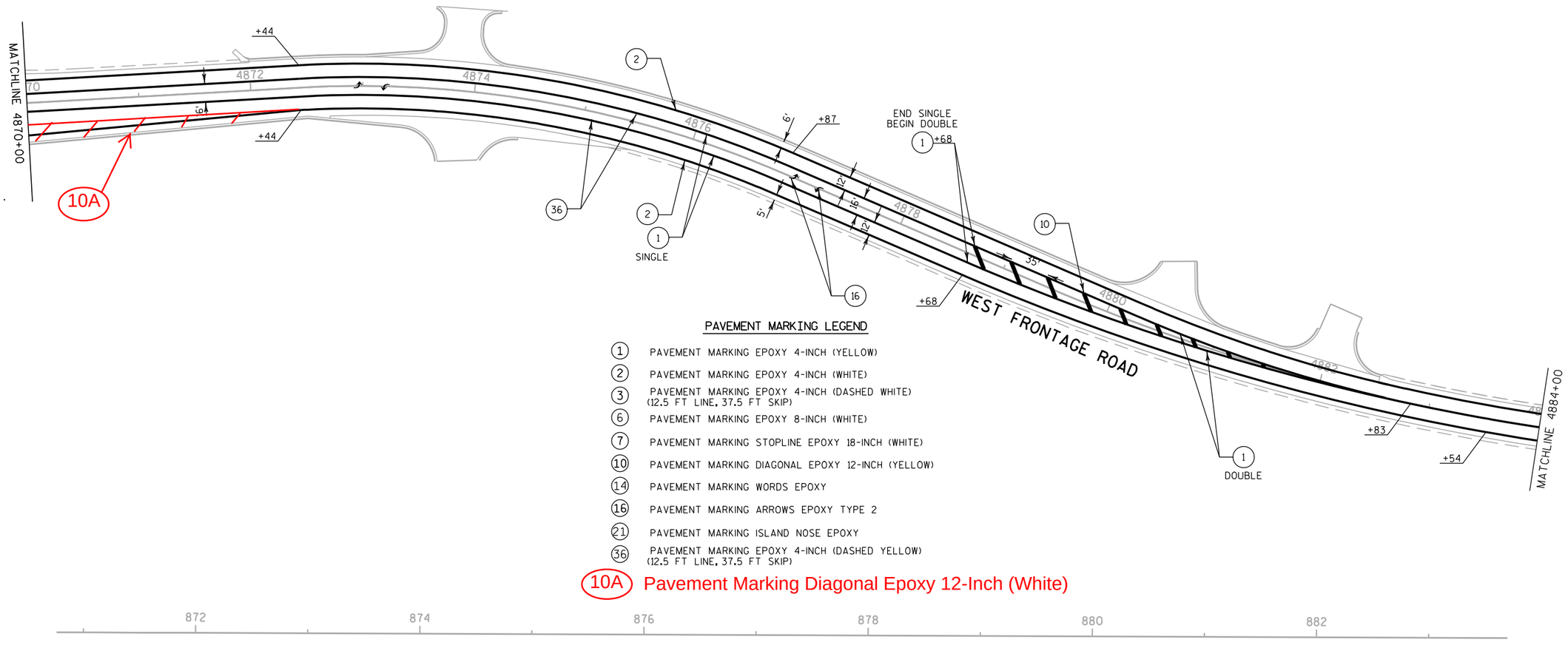
PAVEMENT MARKING LEGEND

1	PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
2	PAVEMENT MARKING EPOXY 4-INCH (WHITE)
3	PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE) (12.5 FT LINE, 37.5 FT SKIP)
6	PAVEMENT MARKING EPOXY 8-INCH (WHITE)
7	PAVEMENT MARKING STOPLINE EPOXY 18-INCH (WHITE)
10	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
14	PAVEMENT MARKING WORDS EPOXY
16	PAVEMENT MARKING ARROWS EPOXY TYPE 2
21	PAVEMENT MARKING ISLAND NOSE EPOXY
36	PAVEMENT MARKING EPOXY 4-INCH (DASHED YELLOW) (12.5 FT LINE, 37.5 FT SKIP)

2

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

N



PAVEMENT MARKING LEGEND

1	PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
2	PAVEMENT MARKING EPOXY 4-INCH (WHITE)
3	PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE) (12.5 FT LINE, 37.5 FT SKIP)
6	PAVEMENT MARKING EPOXY 8-INCH (WHITE)
7	PAVEMENT MARKING STOPLINE EPOXY 18-INCH (WHITE)
10	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
14	PAVEMENT MARKING WORDS EPOXY
16	PAVEMENT MARKING ARROWS EPOXY TYPE 2
21	PAVEMENT MARKING ISLAND NOSE EPOXY
36	PAVEMENT MARKING EPOXY 4-INCH (DASHED YELLOW) (12.5 FT LINE, 37.5 FT SKIP)

10A Pavement Marking Diagonal Epoxy 12-Inch (White)

2

MATCH CONSTRUCTION BY OTHERS

CTH C

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

N

PAVEMENT MARKING LEGEND

(1)	PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
(2)	PAVEMENT MARKING EPOXY 4-INCH (WHITE)
(3)	PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE) (12.5 FT LINE, 37.5 FT SKIP)
(6)	PAVEMENT MARKING EPOXY 8-INCH (WHITE)
(7)	PAVEMENT MARKING STOPLINE EPOXY 18-INCH (WHITE)
(10)	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
(14)	PAVEMENT MARKING WORDS EPOXY
(16)	PAVEMENT MARKING ARROWS EPOXY TYPE 2
(21)	PAVEMENT MARKING ISLAND NOSE EPOXY
(36)	PAVEMENT MARKING EPOXY 4-INCH (DASHED YELLOW) (12.5 FT LINE, 37.5 FT SKIP)

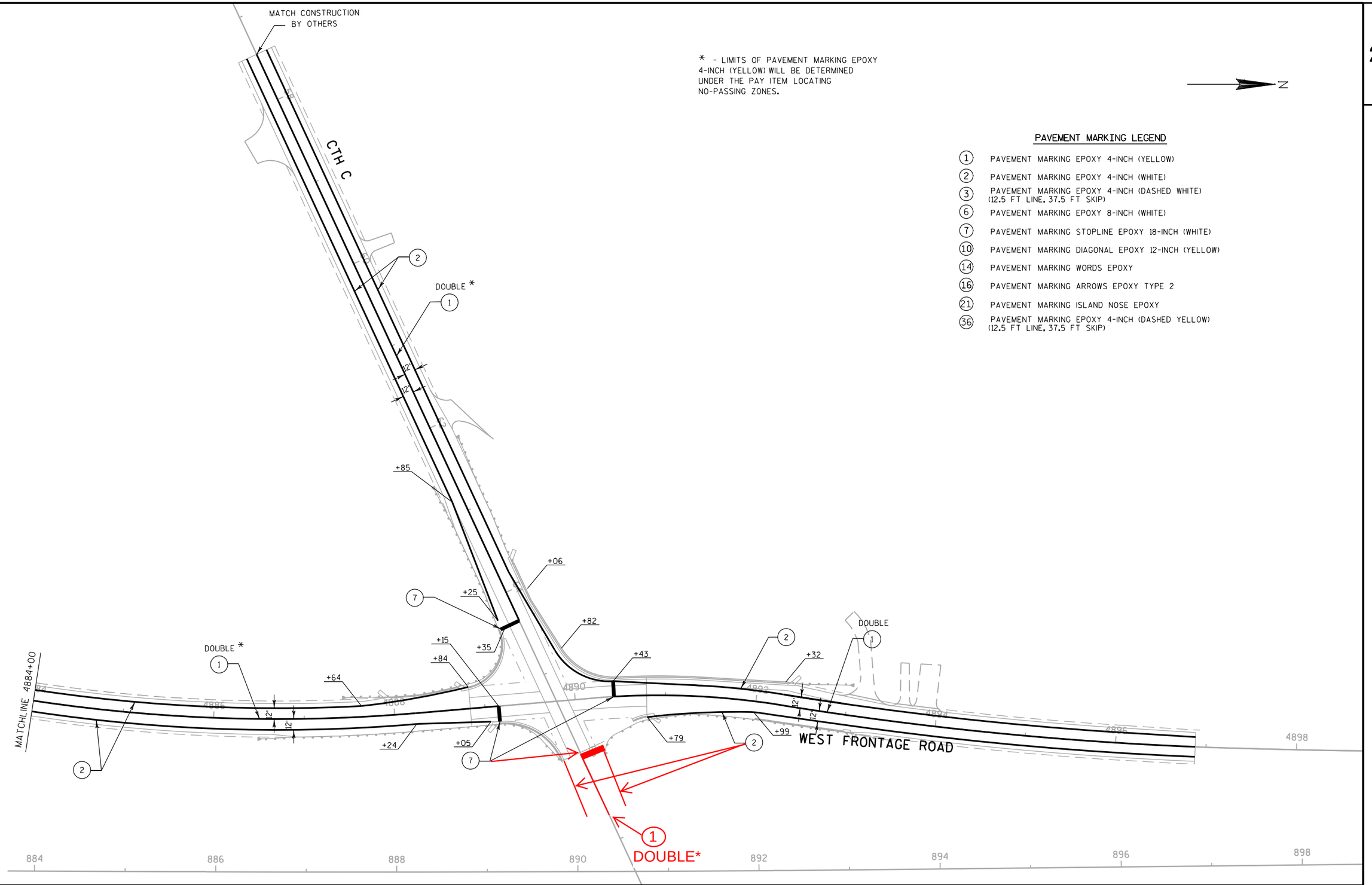
DOUBLE *
(1)
(2)
+85
+06
(7)
+25
+82
+35
+15
+84
+43
+64
+24
+05
+79
+99
+32
DOUBLE
DOUBLE *
(1)
MATCHLINE 4884+00
12'
12'
12'
12'
36'
36'
WEST FRONTAGE ROAD
4890
4892
4894
4896
4898
884
886
888
890
892
894
896
898

See new sheet #54

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	PAVEMENT MARKING	SHEET 54	E

FILE NAME : s:\FinalDesign\20\10330274_W\Roads\cds\024504_pm.dgn PLOT DATE : 07-DEC-2010 05:21 PLOT BY : MSCD1S PLOT NAME : 024504_pm PLOT SCALE : 100:1

2



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

N

PAVEMENT MARKING LEGEND

(1)	PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
(2)	PAVEMENT MARKING EPOXY 4-INCH (WHITE)
(3)	PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE) (12.5 FT LINE, 37.5 FT SKIP)
(6)	PAVEMENT MARKING EPOXY 8-INCH (WHITE)
(7)	PAVEMENT MARKING STOPLINE EPOXY 18-INCH (WHITE)
(10)	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
(14)	PAVEMENT MARKING WORDS EPOXY
(16)	PAVEMENT MARKING ARROWS EPOXY TYPE 2
(21)	PAVEMENT MARKING ISLAND NOSE EPOXY
(36)	PAVEMENT MARKING EPOXY 4-INCH (DASHED YELLOW) (12.5 FT LINE, 37.5 FT SKIP)

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	PAVEMENT MARKING	SHEET 54	E

FILE NAME : s:\FinalDesign\20\10330274_W\Roads\cds\024504_pm.dgn PLOT DATE : 07-DEC-2010 05:21 PLOT BY : MSCD1S PLOT NAME : 024504_pm PLOT SCALE : 100:1

2

N

STH 20

TOWN OF YORKVILLE

GRANDVIEW PARKWAY

WEST FRONTAGE ROAD

WEST FRONTAGE ROAD

RAMP SW

RAMP NW

IH 94

IH 94

RAMP SE

RAMP NE

EAST FRONTAGE ROAD

EAST FRONTAGE ROAD

STH 20

VILLAGE OF MOUNT PLEASANT

STAGE 1A

CONSTRUCTION

CONSTRUCT WIDENING OF NORTHBOUND WEST FRONTAGE ROAD.

TRAFFIC

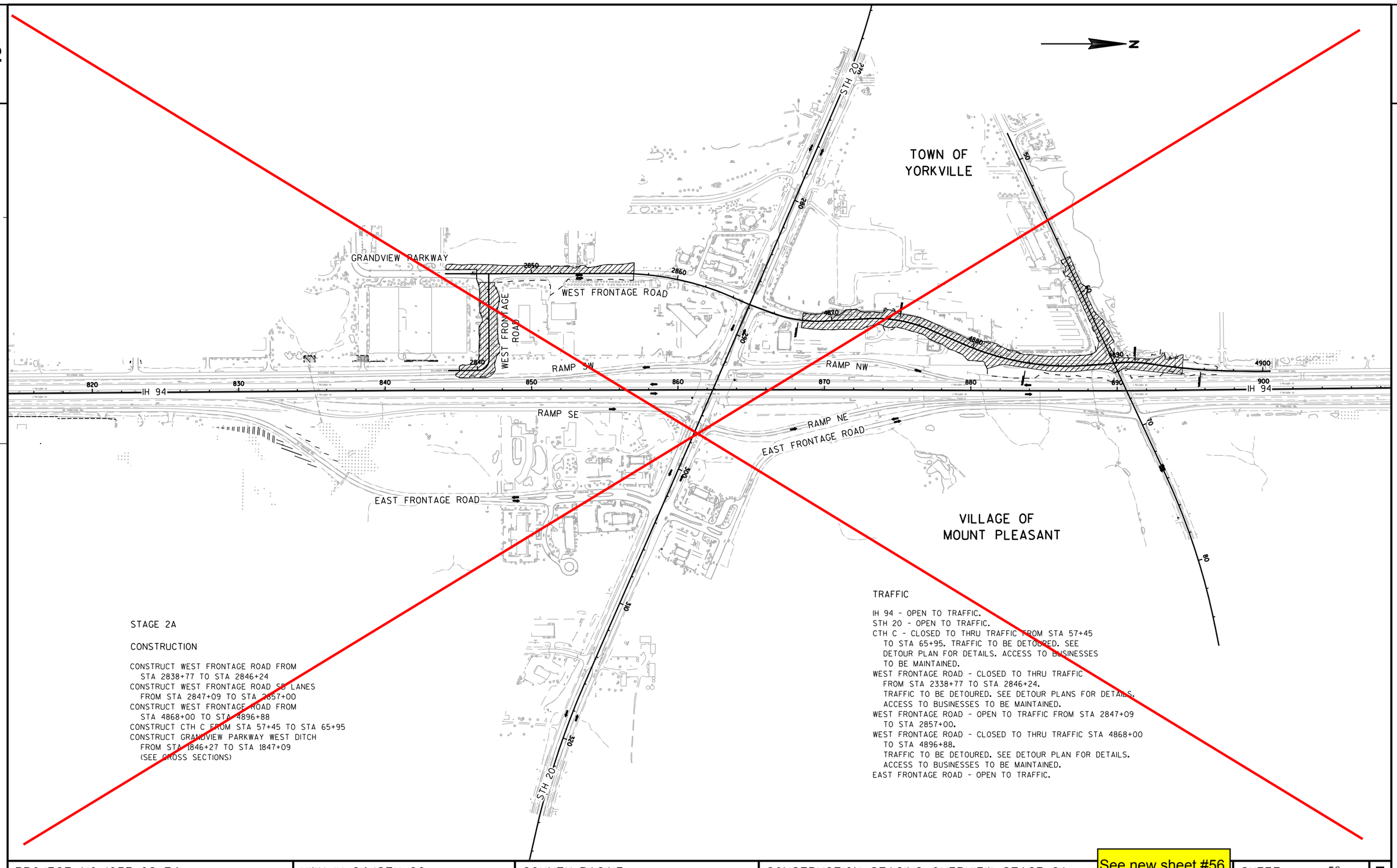
IH 94 - OPEN TO TRAFFIC.
STH 20 - OPEN TO TRAFFIC.
CTH C - OPEN TO TRAFFIC.
WEST FRONTAGE ROAD - OPEN TO TRAFFIC.
EAST FRONTAGE ROAD - OPEN TO TRAFFIC.

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	CONSTRUCTION STAGING OVERVIEW: STAGE 1	SHEET 55	E

FILE NAME : s:\FinalDesign\20\10330274_W\Roads\cds\025101_tc.dgn PLOT DATE : 07-DEC-2010 05:22 PLOT BY : MSCD1S PLOT NAME : 025101_tc PLOT SCALE : 600:1

WISDOT/CADDS SHEET 42

2



STAGE 2A

CONSTRUCTION

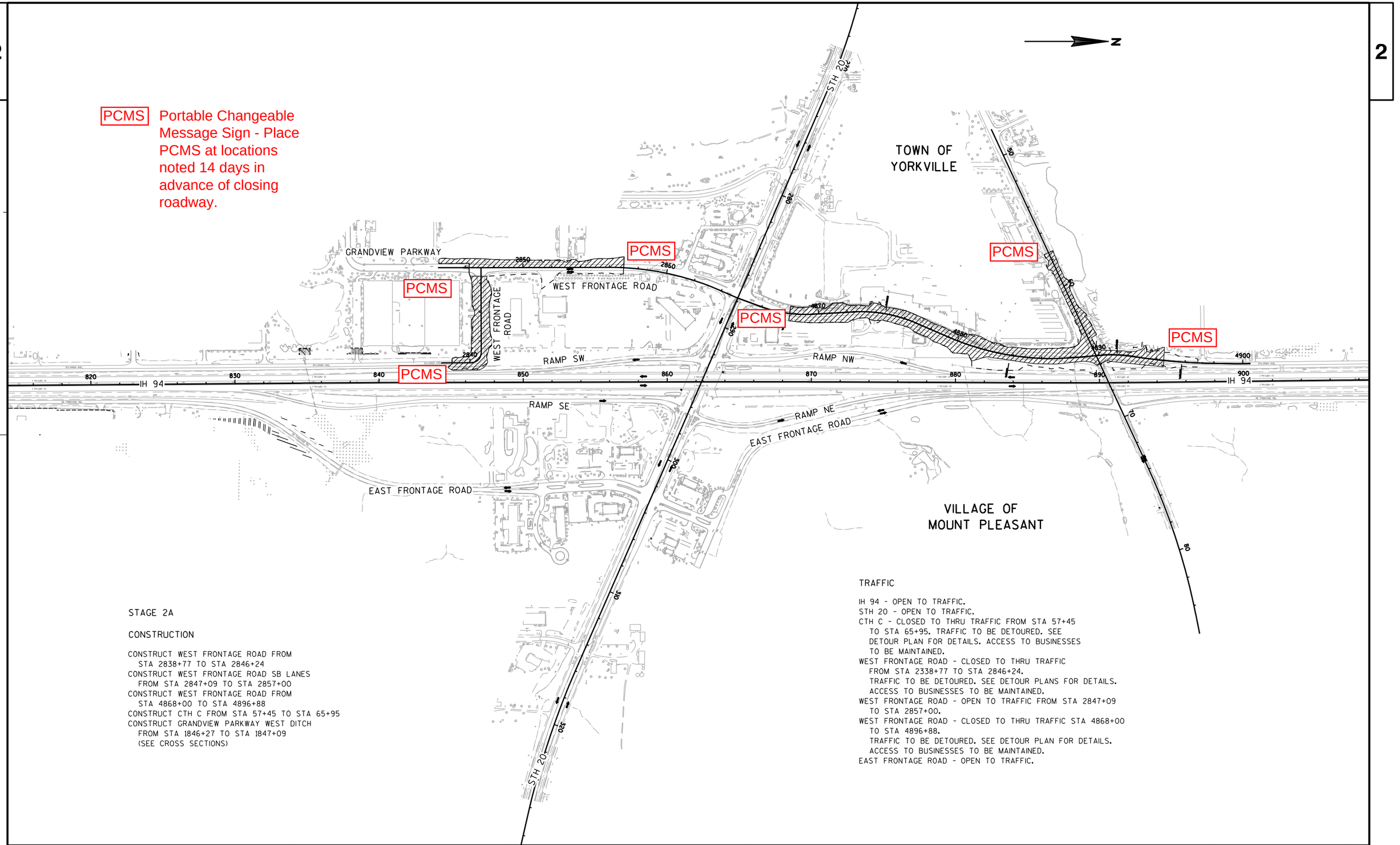
CONSTRUCT WEST FRONTAGE ROAD FROM
STA 2838+77 TO STA 2846+24
CONSTRUCT WEST FRONTAGE ROAD SB LANES
FROM STA 2847+09 TO STA 2857+00
CONSTRUCT WEST FRONTAGE ROAD FROM
STA 4868+00 TO STA 4896+88
CONSTRUCT CTH C FROM STA 57+45 TO STA 65+95
CONSTRUCT GRANDVIEW PARKWAY WEST DITCH
FROM STA 1846+27 TO STA 1847+09
(SEE CROSS SECTIONS)

TRAFFIC

IH 94 - OPEN TO TRAFFIC.
STH 20 - OPEN TO TRAFFIC.
CTH C - CLOSED TO THRU TRAFFIC FROM STA 57+45
TO STA 65+95. TRAFFIC TO BE DETOURED. SEE
DETOUR PLAN FOR DETAILS. ACCESS TO BUSINESSES
TO BE MAINTAINED.
WEST FRONTAGE ROAD - CLOSED TO THRU TRAFFIC
FROM STA 2338+77 TO STA 2846+24.
TRAFFIC TO BE DETOURED. SEE DETOUR PLANS FOR DETAILS.
ACCESS TO BUSINESSES TO BE MAINTAINED.
WEST FRONTAGE ROAD - OPEN TO TRAFFIC FROM STA 2847+09
TO STA 2857+00.
WEST FRONTAGE ROAD - CLOSED TO THRU TRAFFIC STA 4868+00
TO STA 4896+88.
TRAFFIC TO BE DETOURED. SEE DETOUR PLAN FOR DETAILS.
ACCESS TO BUSINESSES TO BE MAINTAINED.
EAST FRONTAGE ROAD - OPEN TO TRAFFIC.

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	CONSTRUCTION STAGING OVERVIEW: STAGE 2A	See new sheet #56	SHEET 56	E

PCMS Portable Changeable Message Sign - Place PCMS at locations noted 14 days in advance of closing roadway.



STAGE 2A

CONSTRUCTION

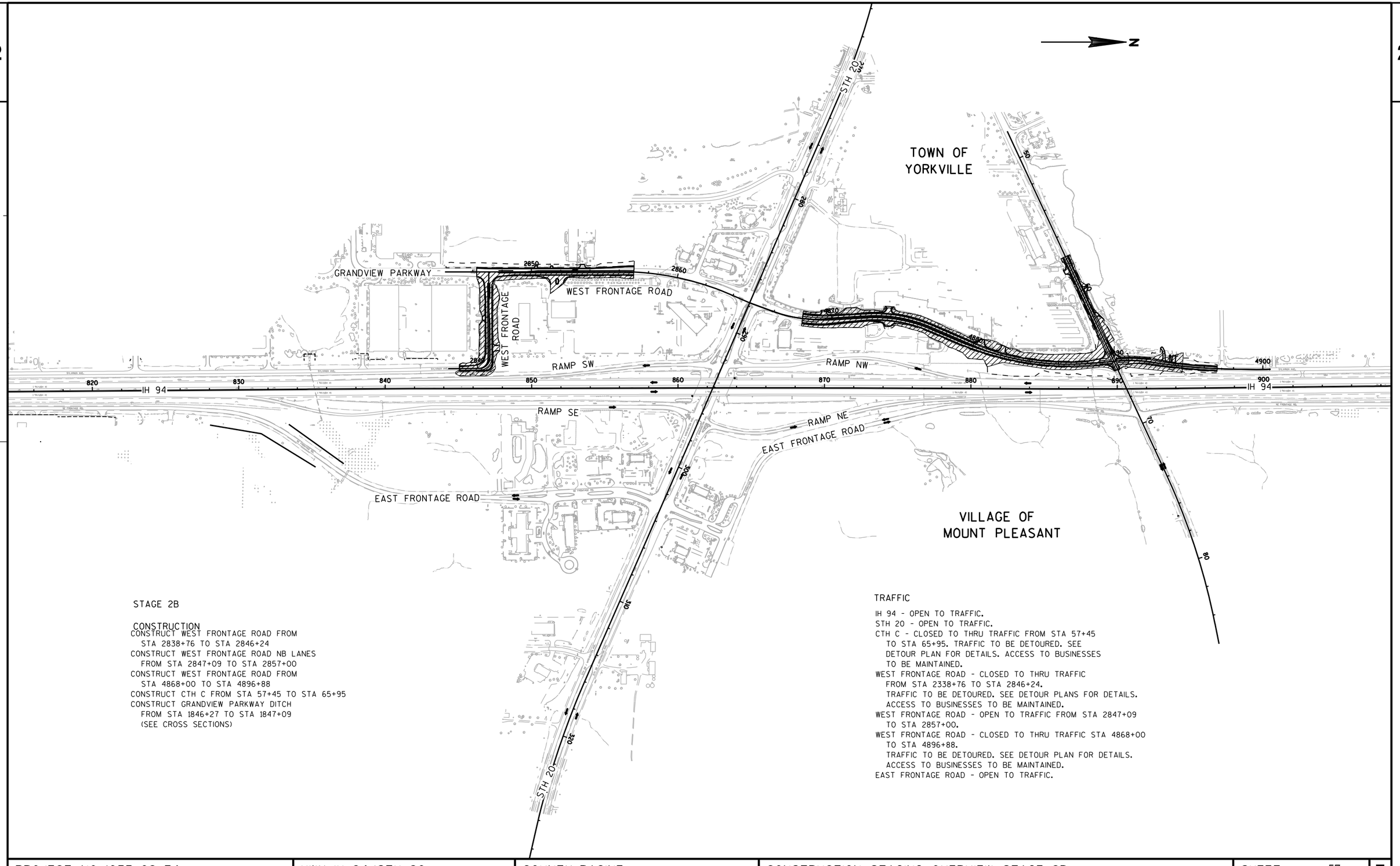
CONSTRUCT WEST FRONTAGE ROAD FROM
STA 2838+77 TO STA 2846+24
CONSTRUCT WEST FRONTAGE ROAD SB LANES
FROM STA 2847+09 TO STA 2857+00
CONSTRUCT WEST FRONTAGE ROAD FROM
STA 4868+00 TO STA 4896+88
CONSTRUCT CTH C FROM STA 57+45 TO STA 65+95
CONSTRUCT GRANDVIEW PARKWAY WEST DITCH
FROM STA 1846+27 TO STA 1847+09
(SEE CROSS SECTIONS)

TRAFFIC

IH 94 - OPEN TO TRAFFIC.
STH 20 - OPEN TO TRAFFIC.
CTH C - CLOSED TO THRU TRAFFIC FROM STA 57+45
TO STA 65+95. TRAFFIC TO BE DETOURED. SEE
DETOUR PLAN FOR DETAILS. ACCESS TO BUSINESSES
TO BE MAINTAINED.
WEST FRONTAGE ROAD - CLOSED TO THRU TRAFFIC
FROM STA 2338+77 TO STA 2846+24.
TRAFFIC TO BE DETOURED. SEE DETOUR PLANS FOR DETAILS.
ACCESS TO BUSINESSES TO BE MAINTAINED.
WEST FRONTAGE ROAD - OPEN TO TRAFFIC FROM STA 2847+09
TO STA 2857+00.
WEST FRONTAGE ROAD - CLOSED TO THRU TRAFFIC STA 4868+00
TO STA 4896+88.
TRAFFIC TO BE DETOURED. SEE DETOUR PLAN FOR DETAILS.
ACCESS TO BUSINESSES TO BE MAINTAINED.
EAST FRONTAGE ROAD - OPEN TO TRAFFIC.

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	CONSTRUCTION STAGING OVERVIEW: STAGE 2A	SHEET 56	E

2



STAGE 2B

CONSTRUCTION
CONSTRUCT WEST FRONTAGE ROAD FROM
STA 2838+76 TO STA 2846+24
CONSTRUCT WEST FRONTAGE ROAD NB LANES
FROM STA 2847+09 TO STA 2857+00
CONSTRUCT WEST FRONTAGE ROAD FROM
STA 4868+00 TO STA 4896+88
CONSTRUCT CTH C FROM STA 57+45 TO STA 65+95
CONSTRUCT GRANDVIEW PARKWAY DITCH
FROM STA 1846+27 TO STA 1847+09
(SEE CROSS SECTIONS)

TRAFFIC

IH 94 - OPEN TO TRAFFIC.
STH 20 - OPEN TO TRAFFIC.
CTH C - CLOSED TO THRU TRAFFIC FROM STA 57+45
TO STA 65+95. TRAFFIC TO BE DETOURED. SEE
DETOUR PLAN FOR DETAILS. ACCESS TO BUSINESSES
TO BE MAINTAINED.
WEST FRONTAGE ROAD - CLOSED TO THRU TRAFFIC
FROM STA 2338+76 TO STA 2846+24.
TRAFFIC TO BE DETOURED. SEE DETOUR PLANS FOR DETAILS.
ACCESS TO BUSINESSES TO BE MAINTAINED.
WEST FRONTAGE ROAD - OPEN TO TRAFFIC FROM STA 2847+09
TO STA 2857+00.
WEST FRONTAGE ROAD - CLOSED TO THRU TRAFFIC STA 4868+00
TO STA 4896+88.
TRAFFIC TO BE DETOURED. SEE DETOUR PLAN FOR DETAILS.
ACCESS TO BUSINESSES TO BE MAINTAINED.
EAST FRONTAGE ROAD - OPEN TO TRAFFIC.

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	CONSTRUCTION STAGING OVERVIEW: STAGE 2B	SHEET 57	E

2

2

N

SIGN

SIGN

MH

1846

2848

2850

2852

2854

2856

MATCHLINE 2857+00

WEST FRONTAGE ROAD

SHOULDER CLOSED SEE SDD "TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY" FOR SIGNING AND SPACING

BEGIN TEMPORARY WIDENING
STA 2848+23, 26.00' RT

2846

2844

2842

2838

2840

INL

INL

INL

INL

SIGN

SIGN

SIGN

SIGN

SIGN

FILLER CAPS

W

LEGEND

CONSTRUCTION THIS STAGE

CONSTRUCTION BY OTHERS

TRAFFIC FLOW

TWO 18" SQUARE ORANGE FLAGS

TRAFFIC CONTROL DRUM WITH/WITHOUT TRAFFIC CONTROL WARNING LIGHT TYPE C

POST MOUNTED TRAFFIC CONTROL SIGN

TRAFFIC CONTROL BARRICADE TYPE III WITH TWO TRAFFIC CONTROL WARNING LIGHTS TYPE A WITH/WITHOUT SIGN

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 1 CONSTRUCTION	SHEET 58	E

2

MATCHLINE 2857+00

2858

2860

2862

2864

15'

BEGIN TEMPORARY WIDENING
STA 2858+09, 14.92' RT

ROAD WORK AHEAD
W20-1
1-02M

284

286

288

290

292

WEST FRONTAGE ROAD

4866

4868

4870

SCALE

FILLER CAPS

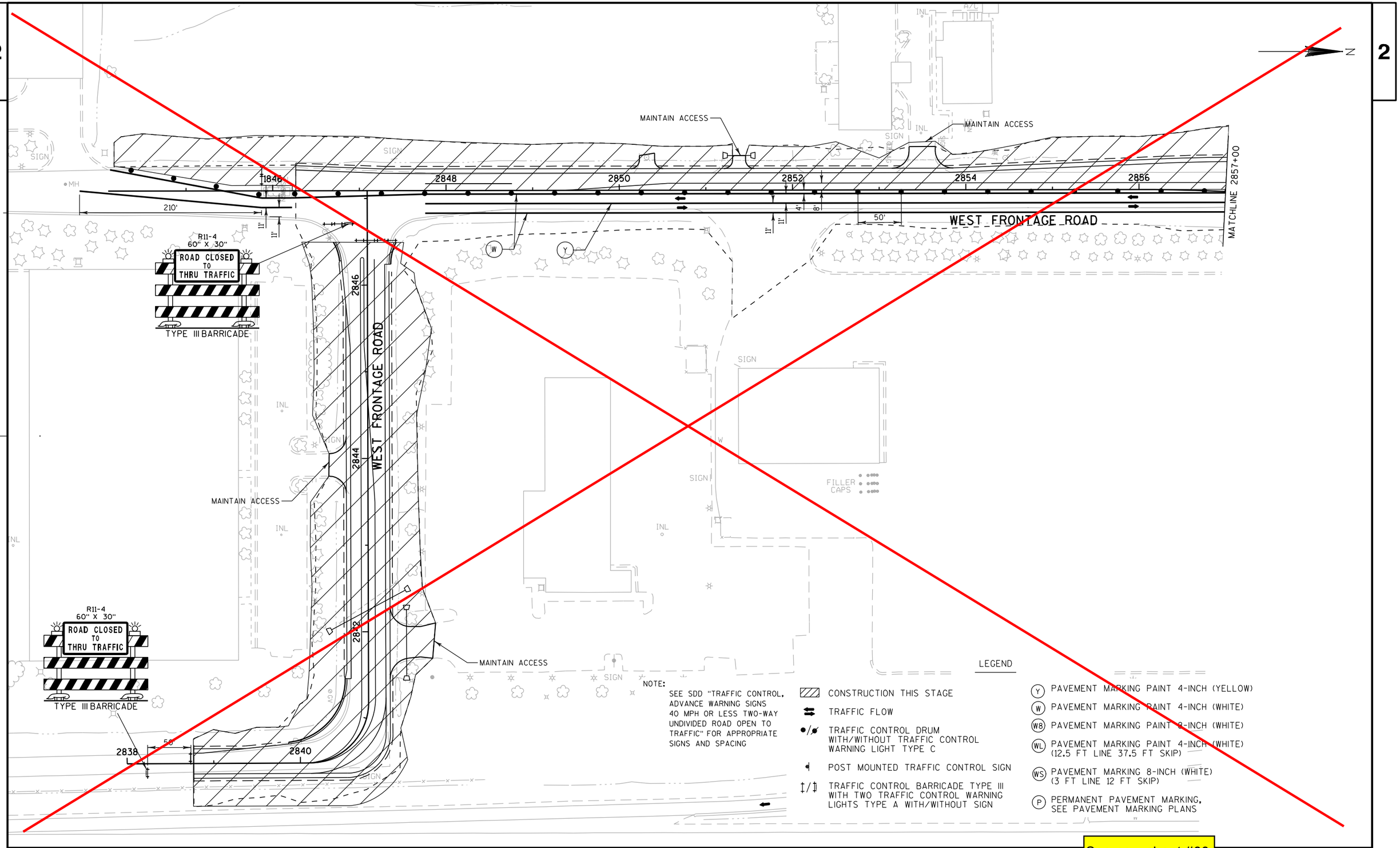
ROAD WORK AHEAD
W20-1
1-02M

N

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 1 CONSTRUCTION	SHEET 59	E

FILE NAME : s:\FinalDesign\20\10330274_W\Roads\cds\026002_s1.dgn PLOT DATE : 07-DEC-2010 05:23 PLOT BY : MSCD1S PLOT NAME : 026002_s1 PLOT SCALE : 100:1

2



NOTE:

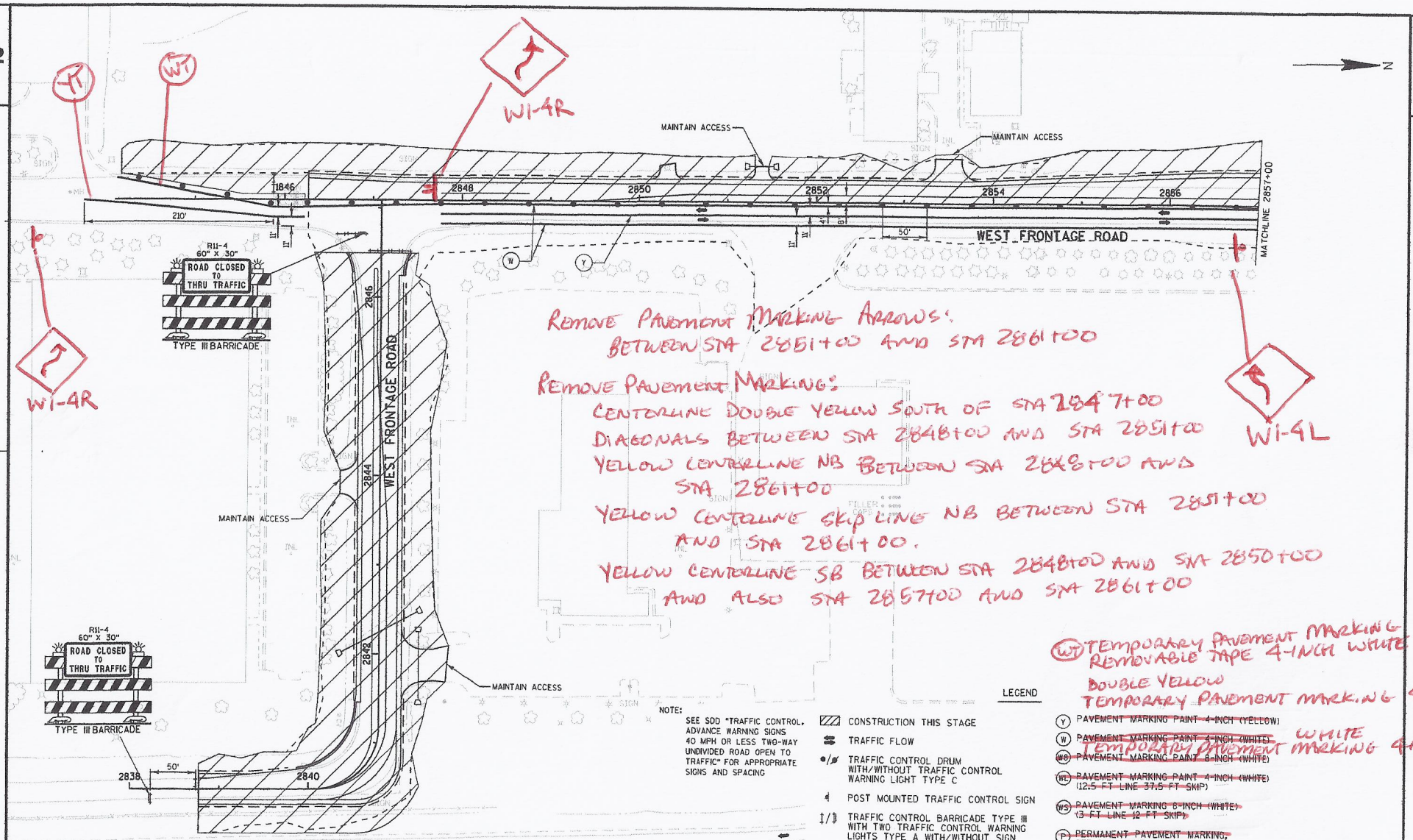
SEE SDD "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 MPH OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC" FOR APPROPRIATE SIGNS AND SPACING

LEGEND

- CONSTRUCTION THIS STAGE
- TRAFFIC FLOW
- TRAFFIC CONTROL DRUM WITH/WITHOUT TRAFFIC CONTROL WARNING LIGHT TYPE C
- POST MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL BARRICADE TYPE III WITH TWO TRAFFIC CONTROL WARNING LIGHTS TYPE A WITH/WITHOUT SIGN
- (Y) PAVEMENT MARKING PAINT 4-INCH (YELLOW)
- (W) PAVEMENT MARKING PAINT 4-INCH (WHITE)
- (W8) PAVEMENT MARKING PAINT 8-INCH (WHITE)
- (WL) PAVEMENT MARKING PAINT 4-INCH (WHITE) (12.5 FT LINE 37.5 FT SKIP)
- (WS) PAVEMENT MARKING 8-INCH (WHITE) (3 FT LINE 12 FT SKIP)
- (P) PERMANENT PAVEMENT MARKING, SEE PAVEMENT MARKING PLANS

See new sheet #60

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 2A CONSTRUCTION	SHEET 60	E



PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 2A CONSTRUCTION	SHEET 60	E

FILE NAME : s:\FinalDesign\20\10330274_W\Roads\cds\026101_s2A.dgn PLOT DATE : 07-DEC-2010 05:24 PLOT BY : MSCD1S PLOT NAME : 026101_s2A PLOT SCALE : 100:1

2

N

MATCHLINE 2857+00

8'
12'
3'
50'
50'
2858
2860
375'
250'
2862
2864
500'

ROAD WORK 250 FT
W20-1

ROAD WORK AHEAD
W20-1

284
STH 20
982
288
290
292

50'
4866
4868
WEST FRONTAGE ROAD
MAINTAIN ACCESS
MATCHLINE 4870+00

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

ROAD WORK AHEAD
W20-1

SCALE
FILLER CAPS
BLDG
SIGN
MH
INL
FLAG
POST

RAMP SW

RAMP NW

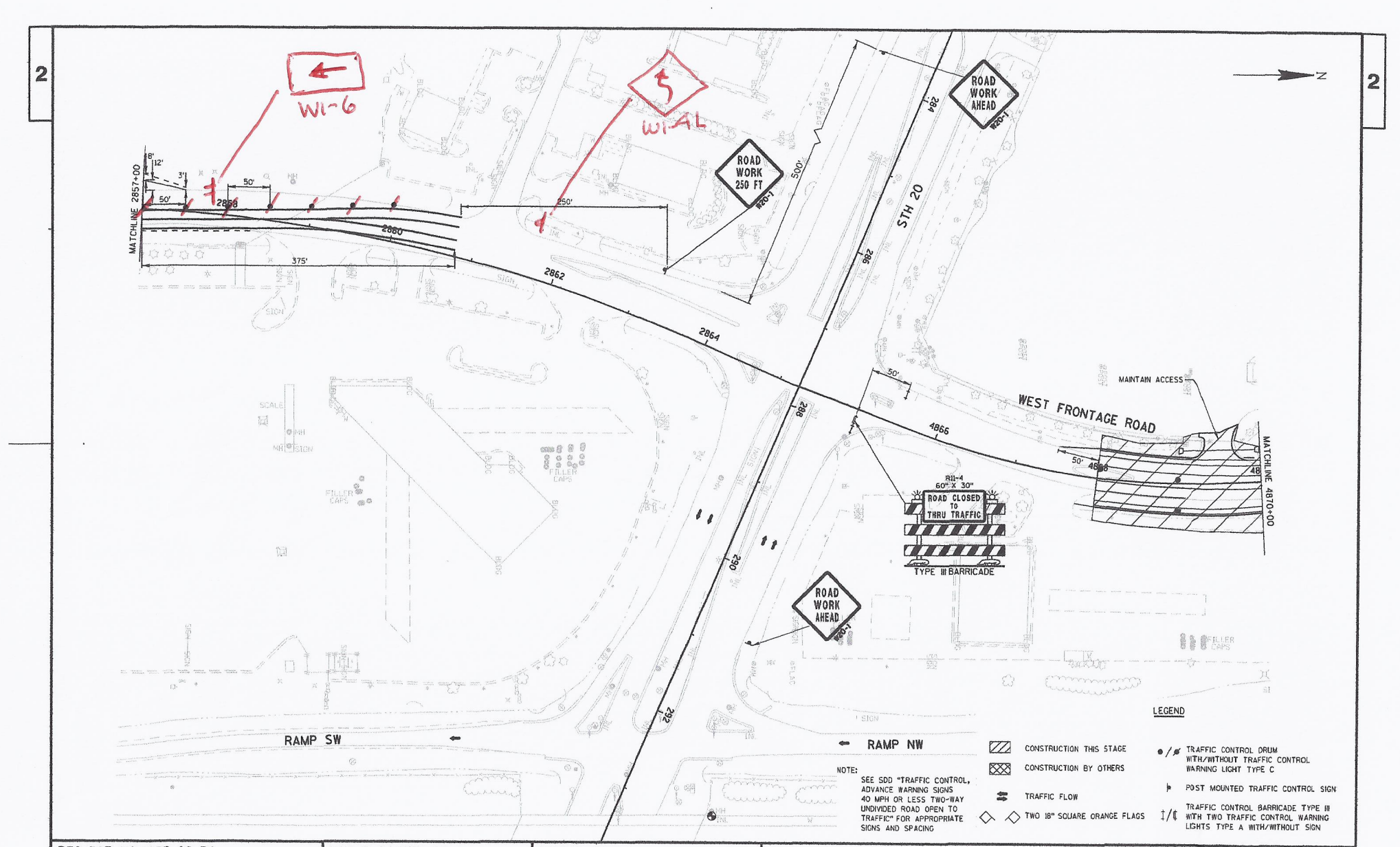
NOTE:
SEE SDD "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 MPH OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC" FOR APPROPRIATE SIGNS AND SPACING

LEGEND

- CONSTRUCTION THIS STAGE
- CONSTRUCTION BY OTHERS
- TRAFFIC FLOW
- TWO 18" SQUARE ORANGE FLAGS
- TRAFFIC CONTROL DRUM WITH/WITHOUT TRAFFIC CONTROL WARNING LIGHT TYPE C
- POST MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL BARRICADE TYPE III WITH TWO TRAFFIC CONTROL WARNING LIGHTS TYPE A WITH/WITHOUT SIGN

See new sheet #61

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 2A CONSTRUCTION	SHEET 61	E



PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 2A CONSTRUCTION	SHEET 61	E

FILE NAME : s:\FinalDesign\20\10330274_W\Roads\cds\026102_s2A.dgn PLOT DATE : 07-DEC-2010 05:24 PLOT BY : MSCD1S PLOT NAME : 026102_s2A PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

2

N

LEGEND

- CONSTRUCTION THIS STAGE
- CONSTRUCTION BY OTHERS
- TRAFFIC FLOW
- TWO 18" SQUARE ORANGE FLAGS
- TRAFFIC CONTROL DRUM WITH/WITHOUT TRAFFIC CONTROL WARNING LIGHT TYPE C
- POST MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL BARRICADE TYPE III WITH TWO TRAFFIC CONTROL WARNING LIGHTS TYPE A WITH/WITHOUT SIGN

NOTE:
SEE SDD "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 MPH OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC" FOR APPROPRIATE SIGNS AND SPACING

MATCHLINE 4870+00

MAINTAIN ACCESS

MAINTAIN ACCESS

MAINTAIN ACCESS

MAINTAIN ACCESS

WEST FRONTAGE ROAD

RAMP NW

MATCHLINE 4884+00

U/C

FOUND

BLDG

SIGN

RIPRAP

INL

4870

4872

4874

4876

4878

4880

4882

872

874

876

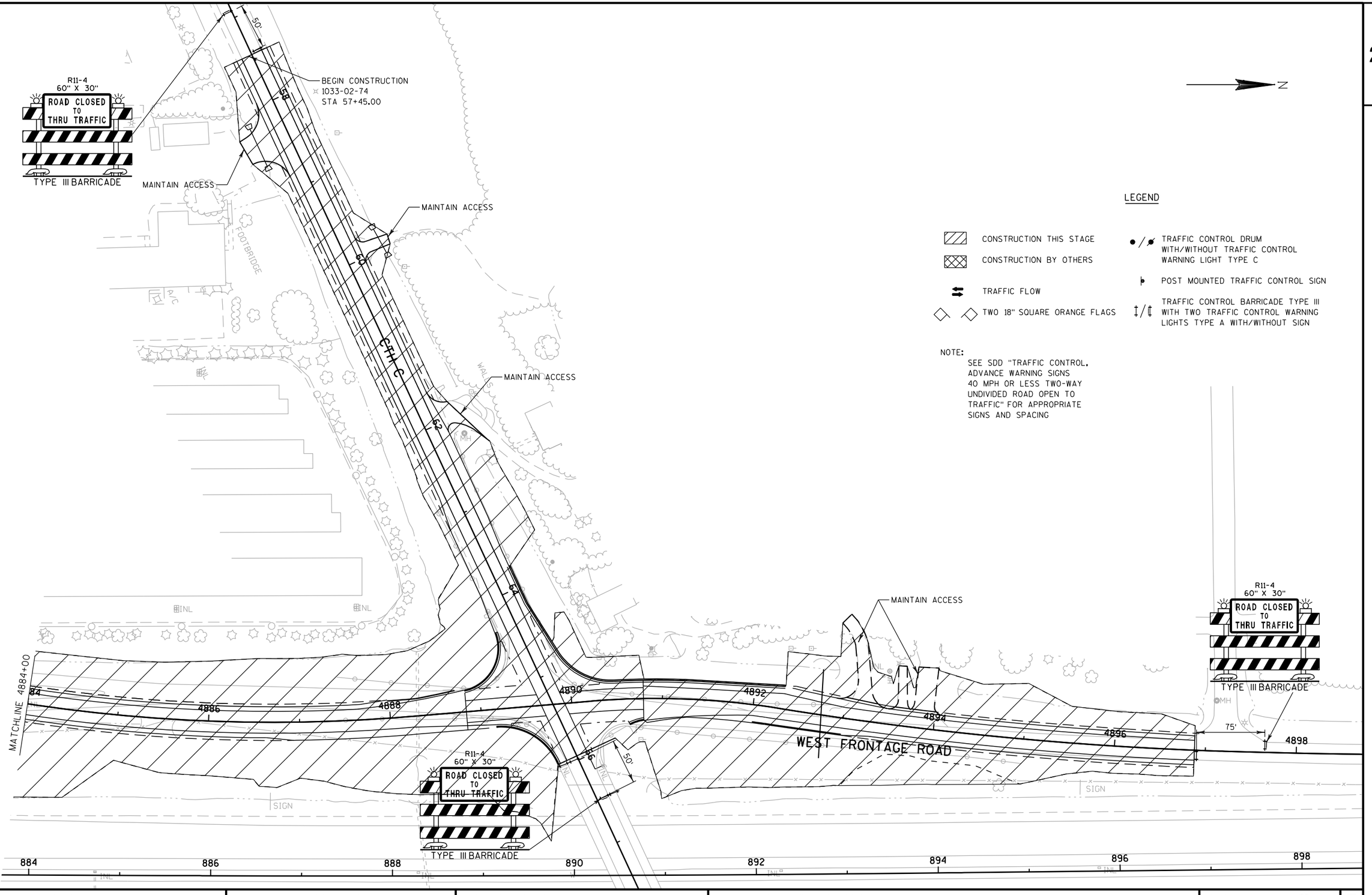
878

880

882

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 2A+2B CONSTRUCTION	SHEET 62	E

2



N

LEGEND

- CONSTRUCTION THIS STAGE
- CONSTRUCTION BY OTHERS
- TRAFFIC FLOW
- TWO 18" SQUARE ORANGE FLAGS
- TRAFFIC CONTROL DRUM WITH/WITHOUT TRAFFIC CONTROL WARNING LIGHT TYPE C
- POST MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL BARRICADE TYPE III WITH TWO TRAFFIC CONTROL WARNING LIGHTS TYPE A WITH/WITHOUT SIGN

NOTE:
SEE SDD "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 MPH OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC" FOR APPROPRIATE SIGNS AND SPACING

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 2A+2B CONSTRUCTION	SHEET 63	E

2

N

W

Y

SIGN

MH

1846

130'

235'

R11-4
60" X 30"

ROAD CLOSED
TO
THRU TRAFFIC

TYPE III BARRICADE

11'

11'

2'

50'

2848

2850

2852

2854

2856

WEST FRONTAGE ROAD

MATCHLINE 2857+00

MAINTAIN ACCESS

2846

2844

2842

INL

FILLER CAPS

R11-4
60" X 30"

ROAD CLOSED
TO
THRU TRAFFIC

TYPE III BARRICADE

2838

2840

MAINTAIN ACCESS

LEGEND

NOTE:
SEE SDD "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 MPH OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC" FOR APPROPRIATE SIGNS AND SPACING

CONSTRUCTION THIS STAGE

CONSTRUCTION BY OTHERS

TRAFFIC FLOW

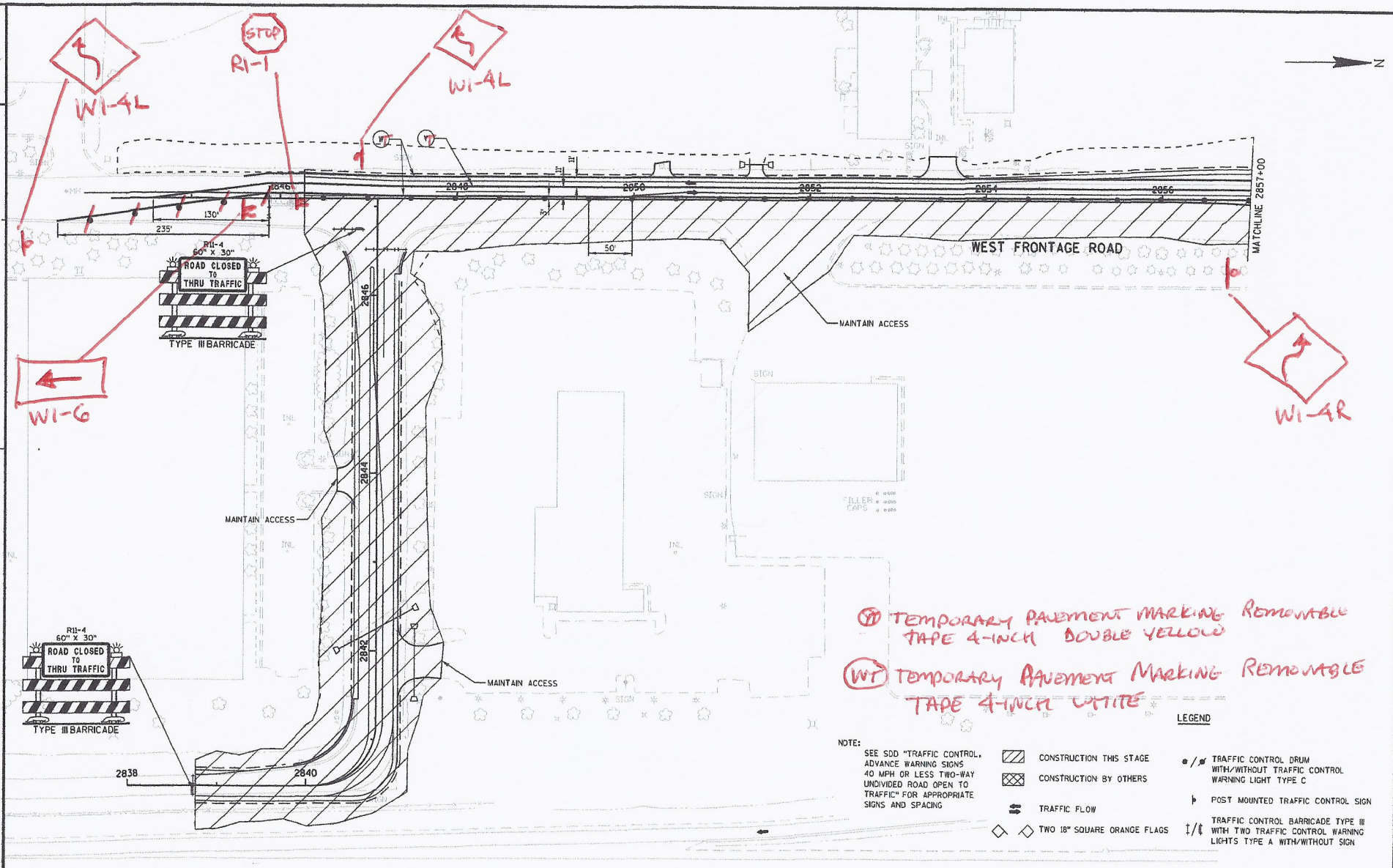
TWO 18" SQUARE ORANGE FLAGS

TRAFFIC CONTROL DRUM WITH/WITHOUT TRAFFIC CONTROL WARNING LIGHT TYPE C

POST MOUNTED TRAFFIC CONTROL SIGN

TRAFFIC CONTROL BARRICADE TYPE III WITH TWO TRAFFIC CONTROL WARNING LIGHTS TYPE A WITH/WITHOUT SIGN

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 2B CONSTRUCTION	See new sheet #64	SHEET 64	E



PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 2B CONSTRUCTION	SHEET 64	E

FILE NAME : s:\FinalDesign\20\1033027 4_W\Roads\cds\026201_s2B.dgn PLOT DATE : 07-DEC-2010 05:25 PLOT BY : MSCD1S PLOT NAME : 026201_s2B PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

2

2

MATCHLINE 2857+00

60'

250'

250'

500'

2858

2860

2862

2864

2866

2868

234'

Y

W

ROAD WORK AHEAD W20-1

ROAD WORK 250 FT W20-1

ROAD WORK AHEAD W20-1

ROAD WORK AHEAD W20-1

STH 20

WEST FRONTAGE ROAD

MAINTAIN ACCESS

284

288

290

292

982

50'

48

MATCHLINE 4870+00

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

TYPE III BARRICADE

SCALE

MH

SIGN

FILLER CAPS

BLDG

INL

FLAG

POST

N

LEGEND

CONSTRUCTION THIS STAGE

CONSTRUCTION BY OTHERS

TRAFFIC FLOW

TWO 18" SQUARE ORANGE FLAGS

TRAFFIC CONTROL DRUM WITH/WITHOUT TRAFFIC CONTROL WARNING LIGHT TYPE C

POST MOUNTED TRAFFIC CONTROL SIGN

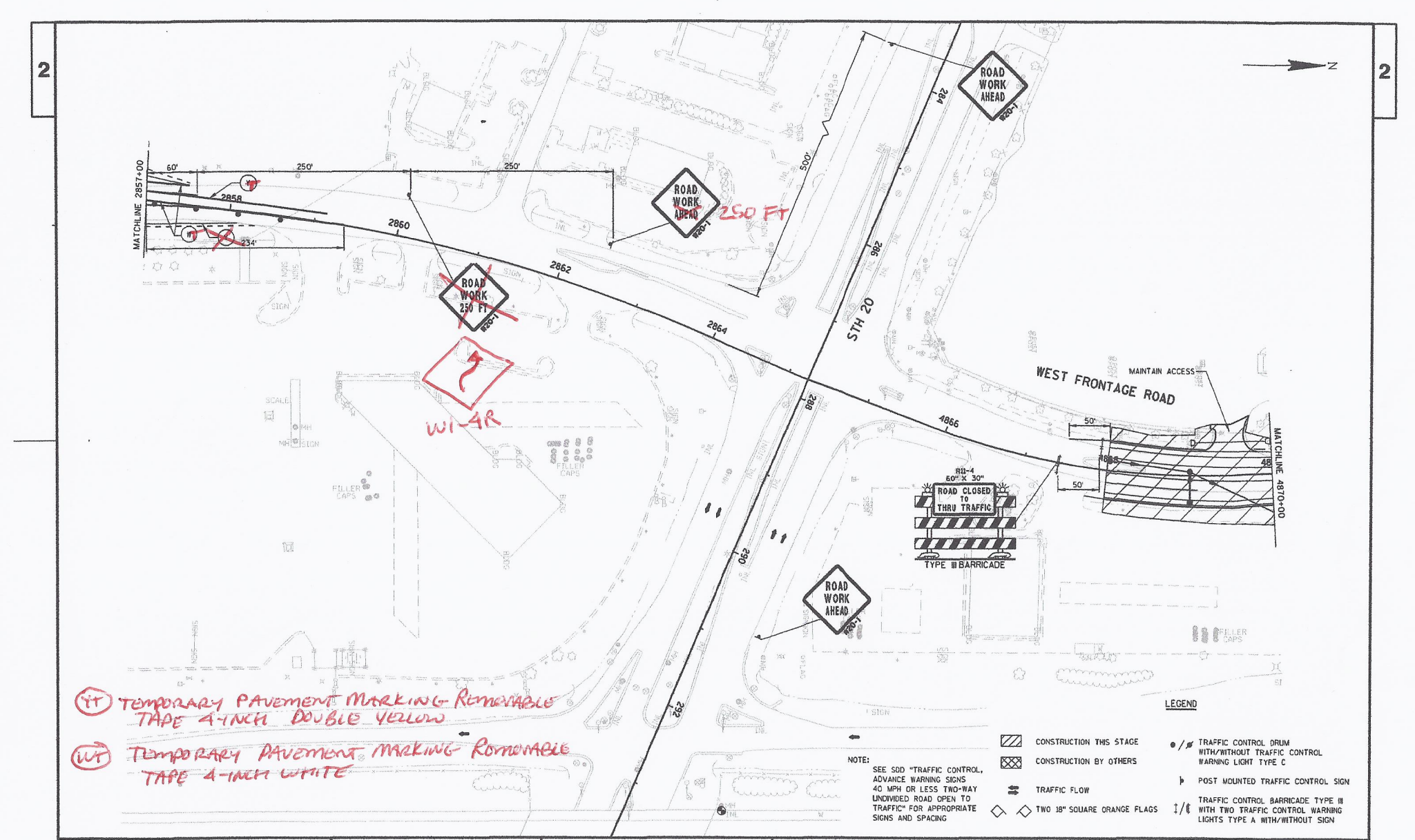
TRAFFIC CONTROL BARRICADE TYPE III WITH TWO TRAFFIC CONTROL WARNING LIGHTS TYPE A WITH/WITHOUT SIGN

NOTE:
SEE SDD "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 MPH OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC" FOR APPROPRIATE SIGNS AND SPACING

See new sheet #65

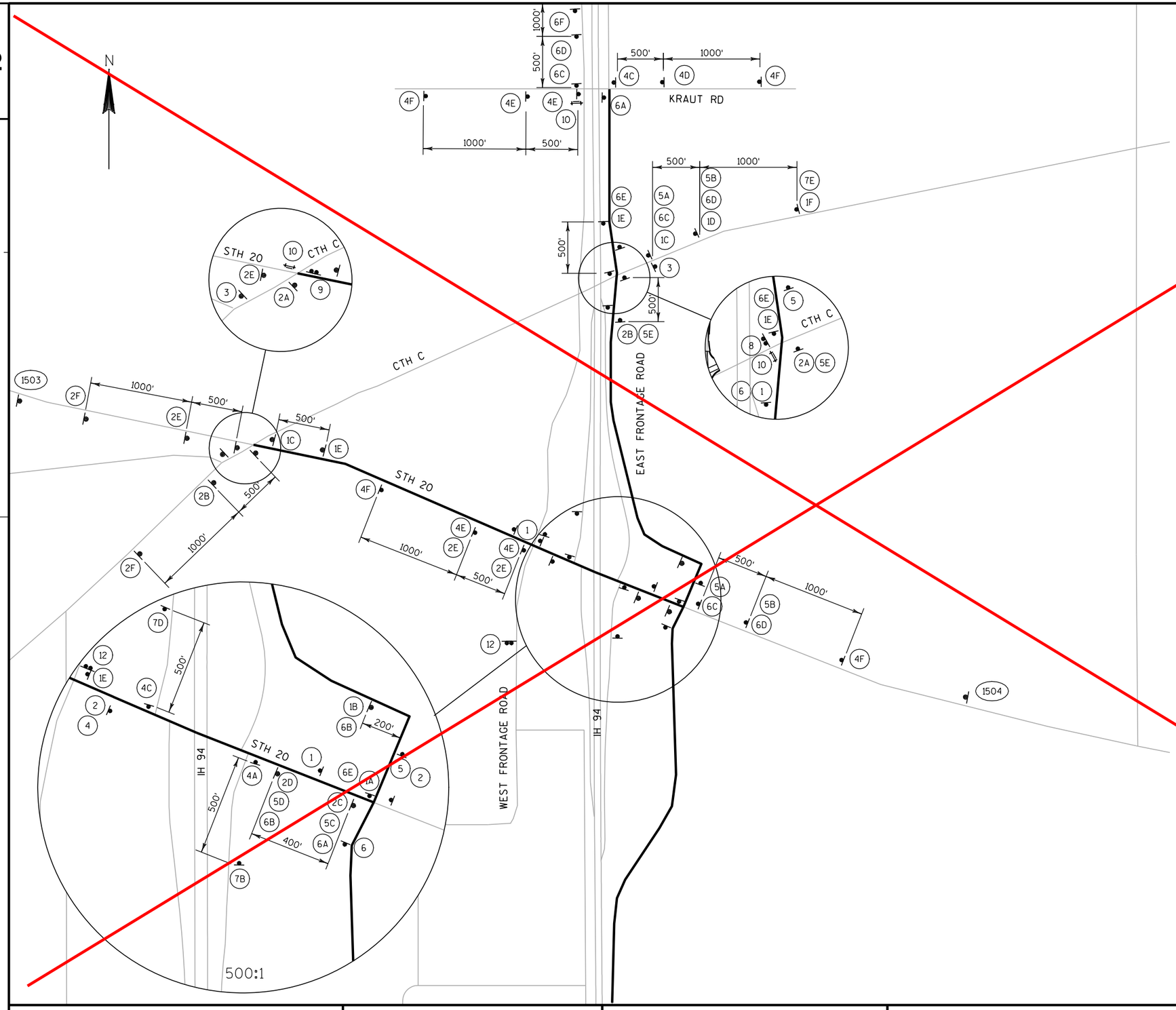
PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 2B CONSTRUCTION	SHEET 65	E

FILE NAME : s:\FinalDesign\20\10330274_W\Roads\cds\026202_s2B.dgn PLOT DATE : 07-DEC-2010 05:25 PLOT BY : MSCD1S PLOT NAME : 026202_s2B PLOT SCALE : 100:1



PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	STAGE 2B CONSTRUCTION	SHEET 65	E

FILE NAME : s:\FinalDesign\20\10330274_W\Roads\cds\026202_s2B.dgn PLOT DATE : 07-DEC-2010 05:25 PLOT BY : MSCD1S PLOT NAME : 026202_s2B PLOT SCALE : 100:1



LEGEND

- PROPOSED SIGN MOUNTED ON POST(S)
- SIGN NUMBER
- DETOUR ROUTE
- TRAFFIC CONTROL BARRICADE TYPE III WITH ATTACHED SIGN
- XXX — FIXED MESSAGE SIGN NUMBER (SEE TRAFFIC CONTROL DETAIL: FIXED MESSAGE SIGN)

NOTES

WEST FRONTAGE ROAD AND CTH C ARE CLOSED FOR DURATION OF DETOUR

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.

ANY EXISTING TRAFFIC SIGNS THAT CONFLICT WITH THIS WORK SHALL BE COVERED AS DIRECTED BY THE ENGINEER.

DETOUR SIGNS SHALL BE COVERED OR REMOVED WHEN WEST FRONTAGE ROAD AND CTH C ARE OPEN TO TRAFFIC AND SIGN DETOUR IS NOT IN USE.

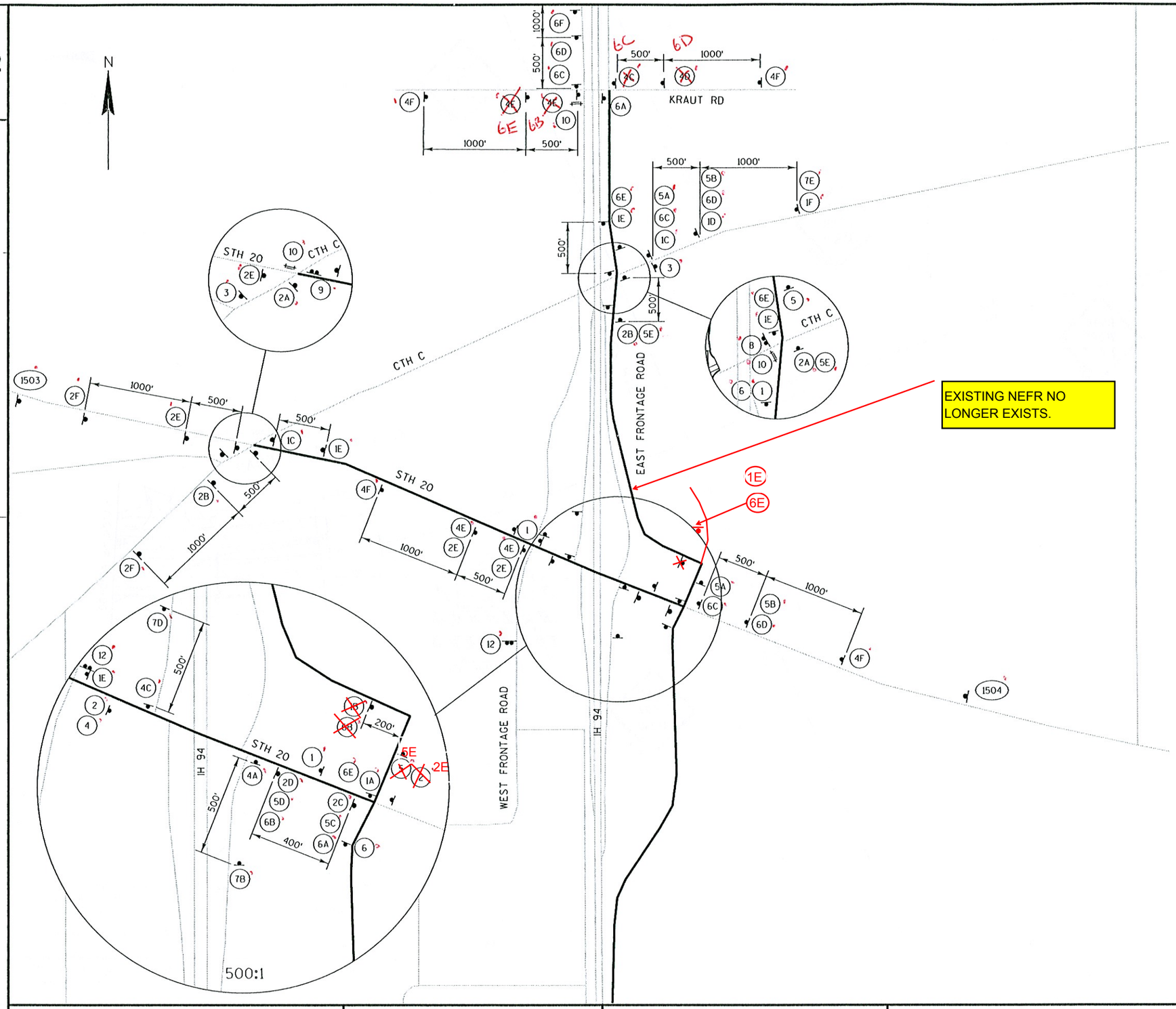
1. DETOUR / WEST / COUNTY C — M4-8 24" X 12", M3-4 24" X 12", M1-5A 24" X 24"
2. DETOUR / EAST / COUNTY C — M4-8 24" X 12", M3-2 24" X 12", M1-5A 24" X 24"
3. END DETOUR / COUNTY C — M4-8A 24" X 18", M1-5A 24" X 24"
4. DETOUR / WEST FRONTAGE ROAD — M4-8 24" X 12", M1-95A 24" X 30"
5. DETOUR / NORTH / WEST FRONTAGE ROAD — M4-8 24" X 12", M3-1 24" X 12", M1-95A 24" X 30"
6. DETOUR / SOUTH / WEST FRONTAGE ROAD — M4-8 24" X 12", M3-3 24" X 12", M1-95A 24" X 30"
7. TO DETOUR / EAST FRONTAGE ROAD — M04-5 24" X 12", M4-8 24" X 12", M1-95A 24" X 30"
8. DETOUR — M4-9L 30" X 24"
9. DETOUR — M4-9R 30" X 24"
10. ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY — R11-3 60" X 30"
12. ACCESS TO LOCAL BUSINESSES — R10-71 66" X 36"

A. M06-1 21" X 21"
B. M05-1R 21" X 21"
C. M06-1 21" X 21"
D. M05-1L 21" X 21"
E. M06-1 21" X 21"
F. DETOUR AHEAD W20-2

See new sheet #66

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	DETOUR PLAN	SHEET 66	E

FILE NAME : s:\FinalDesign\20\10330274_W\Roads\cds\027001_dt.dgn PLOT DATE : 07-DEC-2010 05:25 PLOT BY : MSCD1S PLOT NAME : PLOT SCALE : 1000:1



LEGEND

- PROPOSED SIGN MOUNTED ON POST(S)
- SIGN NUMBER
- DETOUR ROUTE
- TRAFFIC CONTROL BARRICADE TYPE III WITH ATTACHED SIGN
- XXX — FIXED MESSAGE SIGN NUMBER (SEE TRAFFIC CONTROL DETAIL: FIXED MESSAGE SIGN)

NOTES

WEST FRONTAGE ROAD AND CTH C ARE CLOSED FOR DURATION OF DETOUR

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.

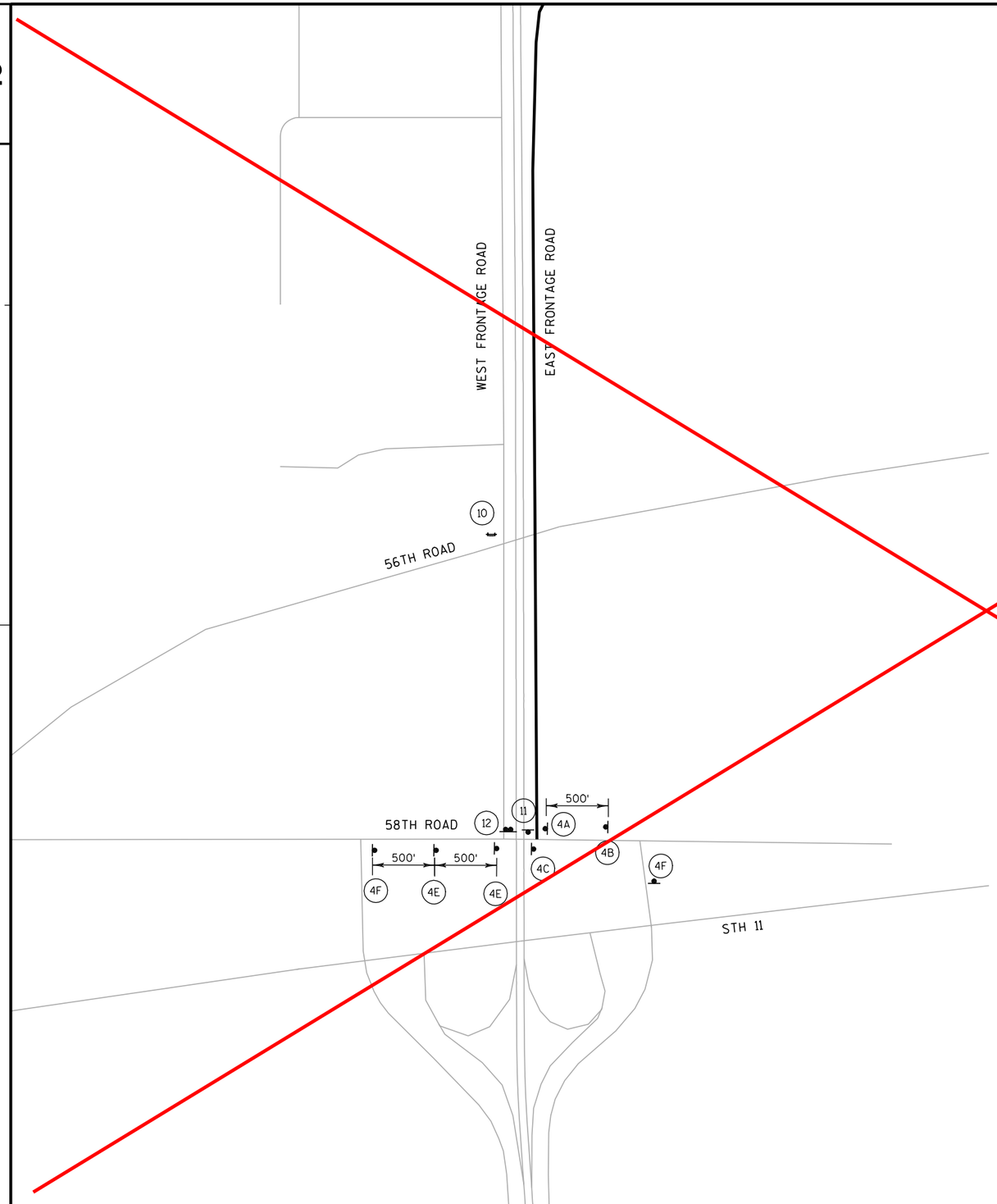
SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FEDERAL HIGHWAY ADMINISTRATION MANUAL OF STANDARD HIGHWAY SIGNS. UNLESS OTHERWISE PROVIDED IN THE PLAN.

ANY EXISTING TRAFFIC SIGNS THAT CONFLICT WITH THIS WORK SHALL BE COVERED AS DIRECTED BY THE ENGINEER.

DETOUR SIGNS SHALL BE COVERED OR REMOVED WHEN WEST FRONTAGE ROAD AND CTH C ARE OPEN TO TRAFFIC AND SIGN DETOUR IS NOT IN USE.

1	DETOUR / WEST / COUNTY C — M4-8 24" X 12", M3-4 24" X 12", M1-5A 24" X 24"	A	M06-1 21" X 21"
2	DETOUR / EAST / COUNTY C — M4-8 24" X 12", M3-2 24" X 12", M1-5A 24" X 24"	B	M05-1R 21" X 21"
3	END DETOUR / COUNTY C — M4-8A 24" X 18", M1-5A 24" X 24"	C	M06-1 21" X 21"
4	DETOUR / WEST FRONTAGE ROAD — M4-8 24" X 12", M1-95A 24" X 30"	D	M05-1L 21" X 21"
5	DETOUR / NORTH / WEST FRONTAGE ROAD — M4-8 24" X 12", M3-1 24" X 12", M1-95A 24" X 30"	E	M06-1 21" X 21"
6	DETOUR / SOUTH / WEST FRONTAGE ROAD — M4-8 24" X 12", M3-3 24" X 12", M1-95A 24" X 30"	F	DETOUR AHEAD W20-2
7	TO DETOUR / EAST FRONTAGE ROAD — M04-5 24" X 12", M4-8 24" X 12", M1-95A 24" X 30" WEST		
8	DETOUR — M4-9L 30" X 24"		
9	DETOUR — M4-9R 30" X 24"		
10	ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY — R11-3 60" X 30"		
12	ACCESS TO LOCAL BUSINESSES — R10-7I 66" X 36"		

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	DETOUR PLAN	SHEET 66	E



LEGEND

PROPOSED SIGN MOUNTED ON POST(S)

SIGN NUMBER

DETOUR ROUTE

TRAFFIC CONTROL BARRICADE TYPE III WITH ATTACHED SIGN

NOTES

WEST FRONTAGE ROAD AND CTH C ARE CLOSED FOR THE DURATION OF DETOUR

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.

ANY EXISTING TRAFFIC SIGNS THAT CONFLICT WITH THIS WORK SHALL BE COVERED AS DIRECTED BY THE ENGINEER.

DETOUR SIGNS SHALL BE COVERED OR REMOVED WHEN WEST FRONTAGE ROAD AND CTH C IS OPEN TO TRAFFIC AND SIGN DETOUR IS NOT IN USE.

4 — DETOUR / WEST FRONTAGE ROAD — M4-8 24" X 12" / M1-95A 24" X 30"

8 — DETOUR — M4-9L 30" X 24"

10 — ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY — R11-3 60" X 30"

11 — END DETOUR / WEST FRONTAGE ROAD — M4-8A 24" X 18" / M1-95A 24" X 30"

12 — ACCESS TO LOCAL BUSINESSES — R10-71 66" X 36"

A — M06-1 21" X 21"

B — M05-1R 21" X 21"

C — M06-1 21" X 21"

D — M05-1L 21" X 21"

E — M06-1 21" X 21"

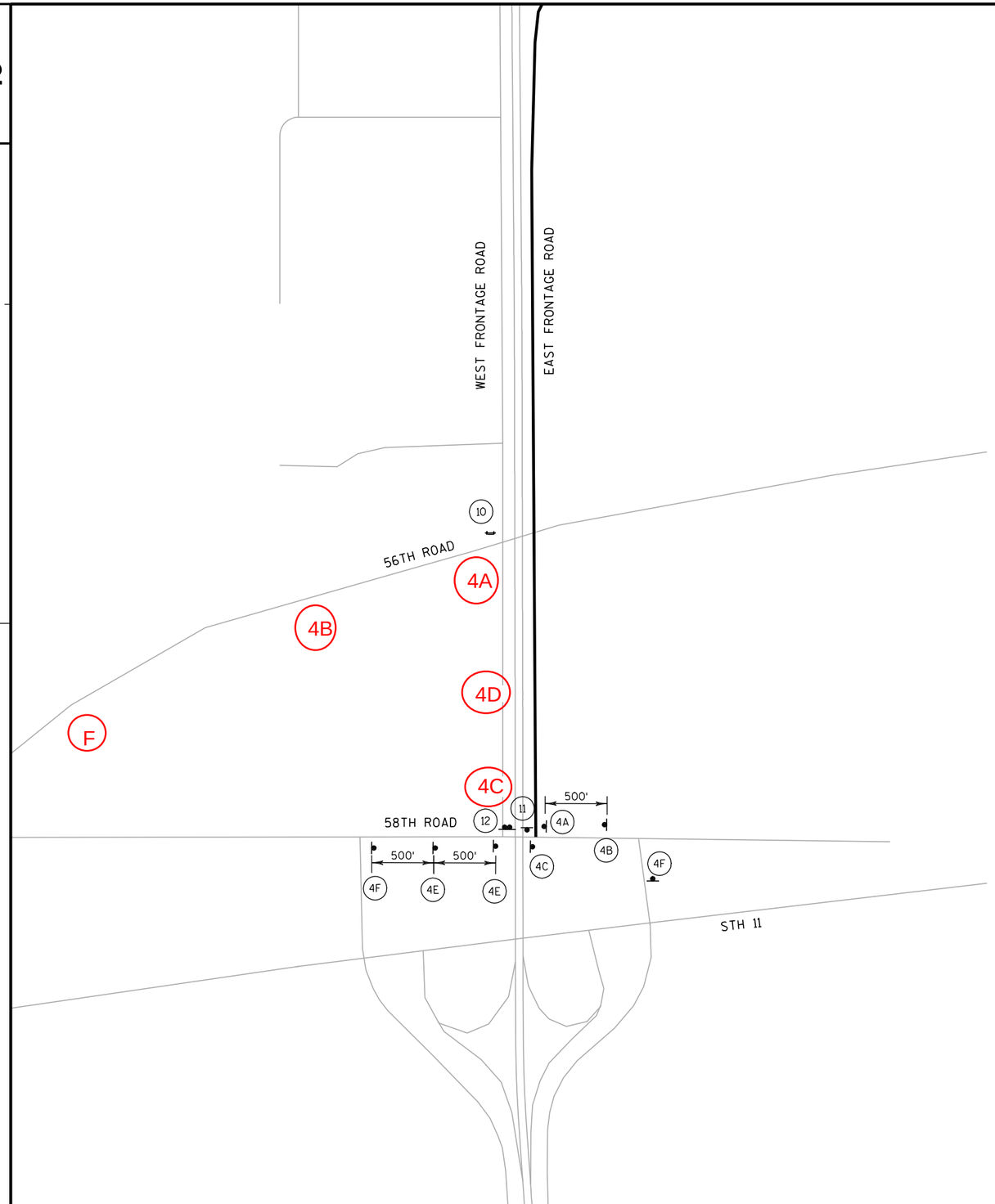
F — DETOUR AHEAD — W20-1

See new sheet #67

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	DETOUR PLAN	SHEET 67	E

FILE NAME : s:\FinalDesign\20\10330274_W\Roads\cds\027002_dt.dgn PLOT DATE : 07-DEC-2010 05:25 PLOT BY : MSCD1S PLOT NAME : PLOT SCALE : 1000:1

WISDOT/CADDS SHEET 42



LEGEND

PROPOSED SIGN MOUNTED ON POST(S)

SIGN NUMBER

DETOUR ROUTE

TRAFFIC CONTROL BARRICADE TYPE III WITH ATTACHED SIGN

NOTES

WEST FRONTAGE ROAD AND CTH C ARE CLOSED FOR THE DURATION OF DETOUR

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.

ANY EXISTING TRAFFIC SIGNS THAT CONFLICT WITH THIS WORK SHALL BE COVERED AS DIRECTED BY THE ENGINEER.

DETOUR SIGNS SHALL BE COVERED OR REMOVED WHEN WEST FRONTAGE ROAD AND CTH C IS OPEN TO TRAFFIC AND SIGN DETOUR IS NOT IN USE.

4 — DETOUR / WEST FRONTAGE ROAD — M4-8 24" X 12" / M1-95A 24" X 30"

8 — DETOUR — M4-9L 30" X 24"

10 — ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY — R11-3 60" X 30"

11 — END DETOUR / WEST FRONTAGE ROAD — M4-8A 24" X 18" / M1-95A 24" X 30"

12 — ACCESS TO LOCAL BUSINESSES — R10-71 66" X 36"

A — M06-1 21" X 21"

B — M05-1R 21" X 21"

C — M06-1 21" X 21"

D — M05-1L 21" X 21"

E — M06-1 21" X 21"

F — DETOUR AHEAD — W20-2

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	DETOUR PLAN	SHEET 67	E

2

GENERAL NOTES

ALL SIGNS TO HAVE STANDARD REFLECTIVE SHEETING-REFERENCE: "WISDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION"

ENGINEER WILL FIELD VERIFY THE LOCATION OF SIGNS AFTER INITIAL LAYOUT

SIGNS ON THIS SHEET TO BE PAID FOR AS "FIXED MESSAGE SIGNS"

SIGNS SHALL BE BLACK NON-REFLECTIVE MESSAGE ON ORANGE REFLECTIVE BACKGROUND

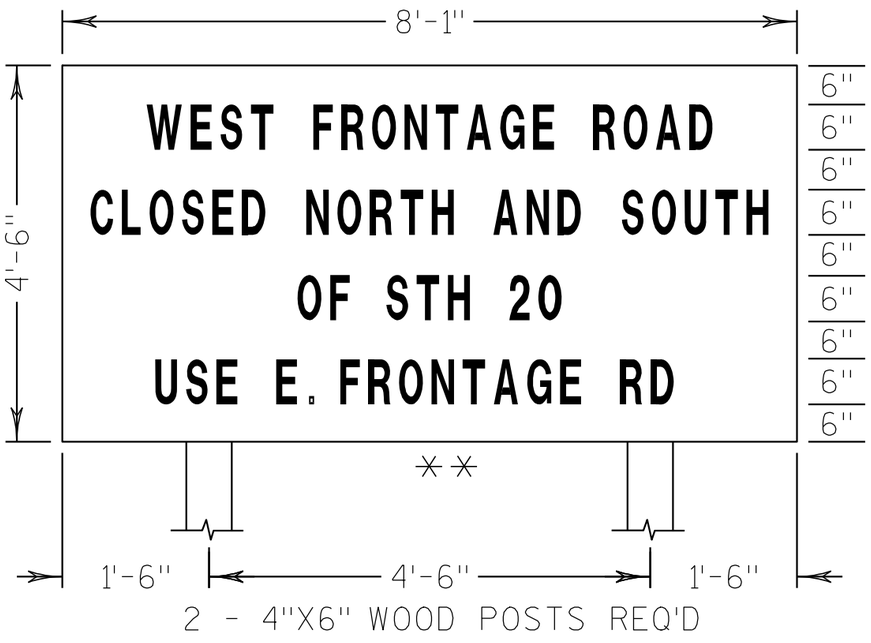
ALL SIGNS SHALL HAVE CAPITAL LETTERS: 6" CAPS SHALL BE SERIES "C"

(XXX) SIGN NUMBER NOTED ON TRAFFIC CONTROL PLAN

** CONTRACTOR TO VERIFY DIMENSIONS PRIOR TO FABRICATION

1503

1504



PROJECT NO: 1033-02-74	HWY: IH 94	COUNTY: RACINE	TRAFFIC CONTROL DETAIL: FIXED MESSAGE SIGNS	SHEET 68	E

2

2

R/L WEST FRONTAGE ROAD

SLOPE INTERCEPT

+75.00
27.39' RT
MATCH EXISTING

FENCE WOVEN
WIRE 4-FEET
(TYP)

+59.11
53.85' RT
MATCH EXISTING

WEST FRONTAGE ROAD

lane line

150'

250'

IH 94 SB

IH 94 NB

STH 20

+94.34
89.43' RT
MATCH EXISTING

R/L WEST FRONTAGE ROAD

EVANS LANE

+15.07
84.58' RT
MATCH EXISTING

+44.80
48.00' RT

+91.06
48.00' RT

+82.38
74.15' RT
MATCH EXISTING

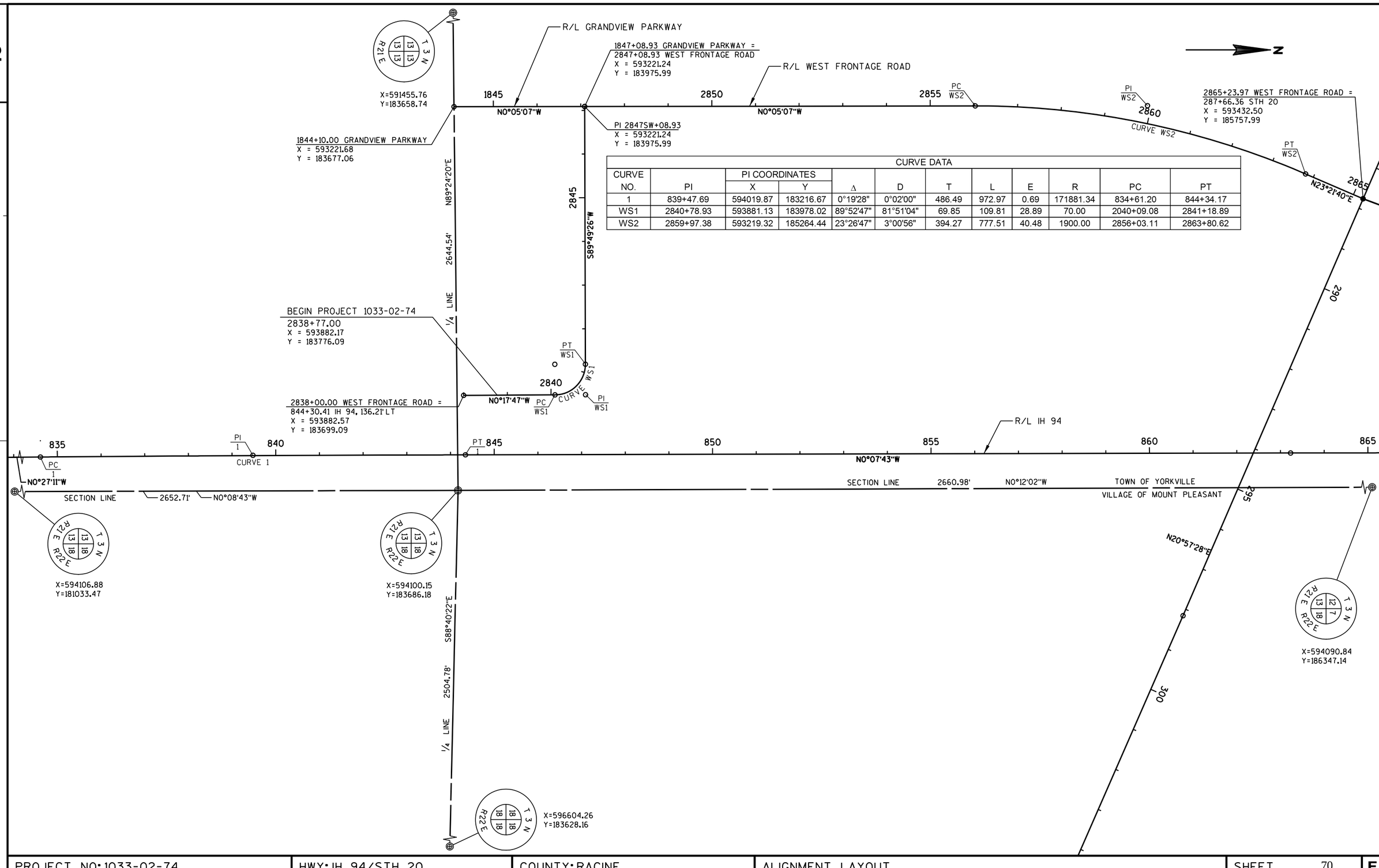
+57.06
46.00' RT

+21.17
44.47' RT

CTH C

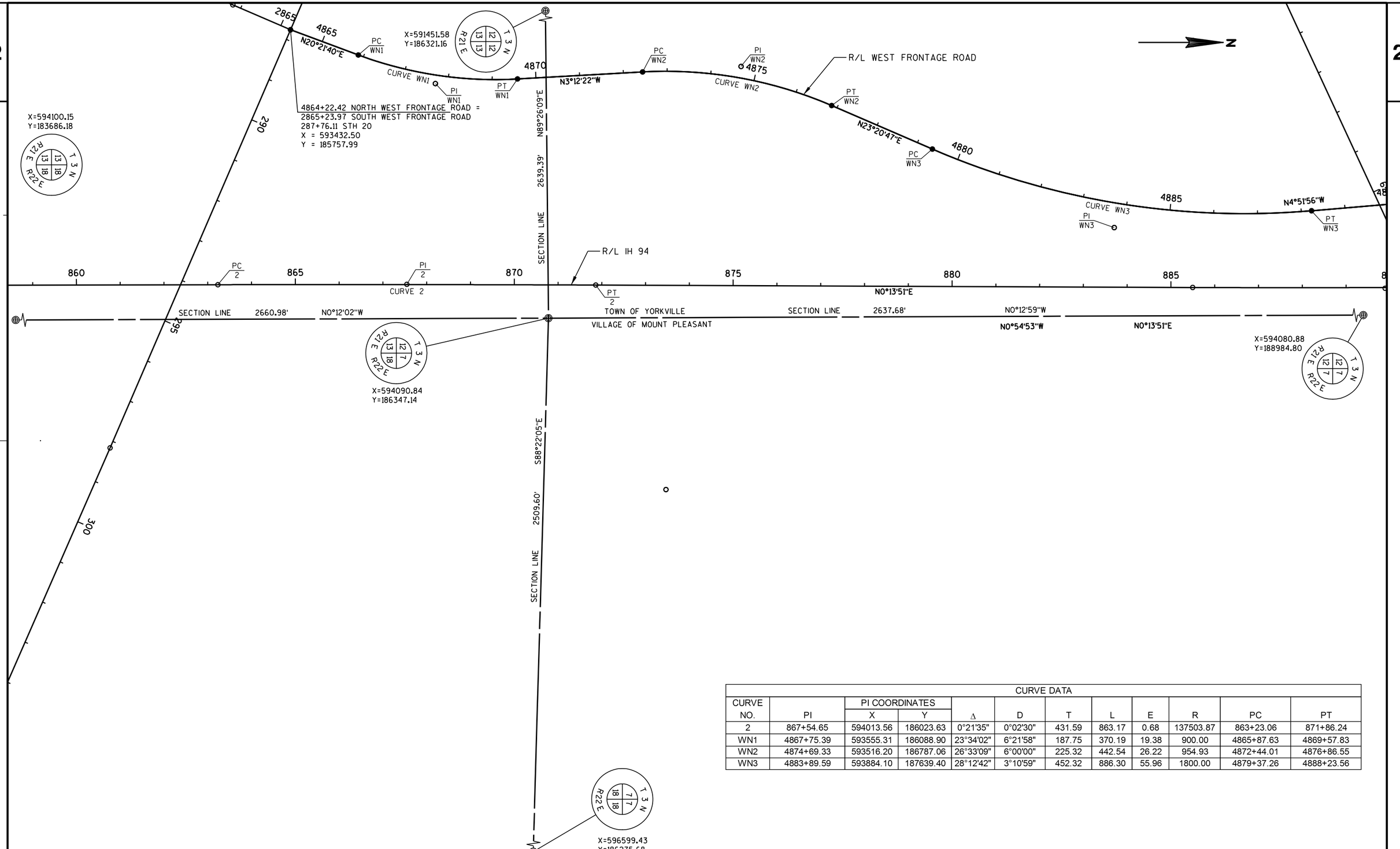
PROJECT NO: 1033-02-74	HWY: IH 94	COUNTY: RACINE	FENCING PLAN- WEST FRONTAGE ROAD	SHEET 69	E

FILE NAME : s:\FinalDesign\20\10330274_W\Roads\cds\027101_fn.dgn PLOT DATE : 07-DEC-2010 05:25 PLOT BY : MSCD1S PLOT NAME : PLOT SCALE : 200.000018:1



CURVE DATA											
CURVE NO.	PI	PI COORDINATES X	PI COORDINATES Y	Δ	D	T	L	E	R	PC	PT
1	839+47.69	594019.87	183216.67	0°19'28"	0°02'00"	486.49	972.97	0.69	171881.34	834+61.20	844+34.17
WS1	2840+78.93	593881.13	183978.02	89°52'47"	81°51'04"	69.85	109.81	28.89	70.00	2040+09.08	2841+18.89
WS2	2859+97.38	593219.32	185264.44	23°26'47"	3°00'56"	394.27	777.51	40.48	1900.00	2856+03.11	2863+80.62

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	ALIGNMENT LAYOUT	SHEET 70	E



CURVE DATA											
CURVE NO.	PI	PI COORDINATES X	PI COORDINATES Y	Δ	D	T	L	E	R	PC	PT
2	867+54.65	594013.56	186023.63	0°21'35"	0°02'30"	431.59	863.17	0.68	137503.87	863+23.06	871+86.24
WN1	4867+75.39	593555.31	186088.90	23°34'02"	6°21'58"	187.75	370.19	19.38	900.00	4865+87.63	4869+57.83
WN2	4874+69.33	593516.20	186787.06	26°33'09"	6°00'00"	225.32	442.54	26.22	954.93	4872+44.01	4876+86.55
WN3	4883+89.59	593884.10	187639.40	28°12'42"	3°10'59"	452.32	886.30	55.96	1800.00	4879+37.26	4888+23.56

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	ALIGNMENT LAYOUT	SHEET 71	E

FILE NAME : s:\FinalDesign\20\10330274_W\Roads\cds\027202_ad.dgn PLOT DATE : 07-DEC-2010 05:26 PLOT BY : MSCD1S PLOT NAME : 027202_ad PLOT SCALE : 200:1

2

57+45.00 CTH C
X = 593117.86
Y = 187914.21

R/L CTH C

N65°08'10"E

60

70

75

X=591445.71
Y=188952.35

N89°17'40"E 2635.37'

1/4 LINE

4889+79.42 WEST FRONTAGE ROAD =
65+32.66 CTH C
X = 593832.51
Y = 188245.39

R/L WEST FRONTAGE ROAD

END PROJECT 1033-02-74
4896+88.00
X = 593882.87
Y = 188950.57

4900+47.58 WEST FRONTAGE ROAD =
900+42.57 IH 94, 123.15'LT
X = 593887.51
Y = 189310.09

X=594090.84
Y=186347.14

4880 4885 4890 4895 4900

PI WN4
PRC WN5
CURVE WN4
PC WN4
CURVE WN5
PI WN5
CURVE WN6
PCC WN6

N4°51'56"W

890+63.58 IH 94 =
67+39.92 CTH C
X = 594020.56
Y = 188332.54

880 885 890 895 900 905

PC 3
PT 3
CURVE 3
PI 3

R/L IH 94

N0°27'11"W

N0°38'53"W

SECTION LINE 2637.68' N0°12'59"W

TOWN OF YORKVILLE
VILLAGE OF MOUNT PLEASANT

SECTION LINE 2639.82' N0°07'52"W

X=594080.88
Y=188984.80

X=594074.83
Y=191624.62

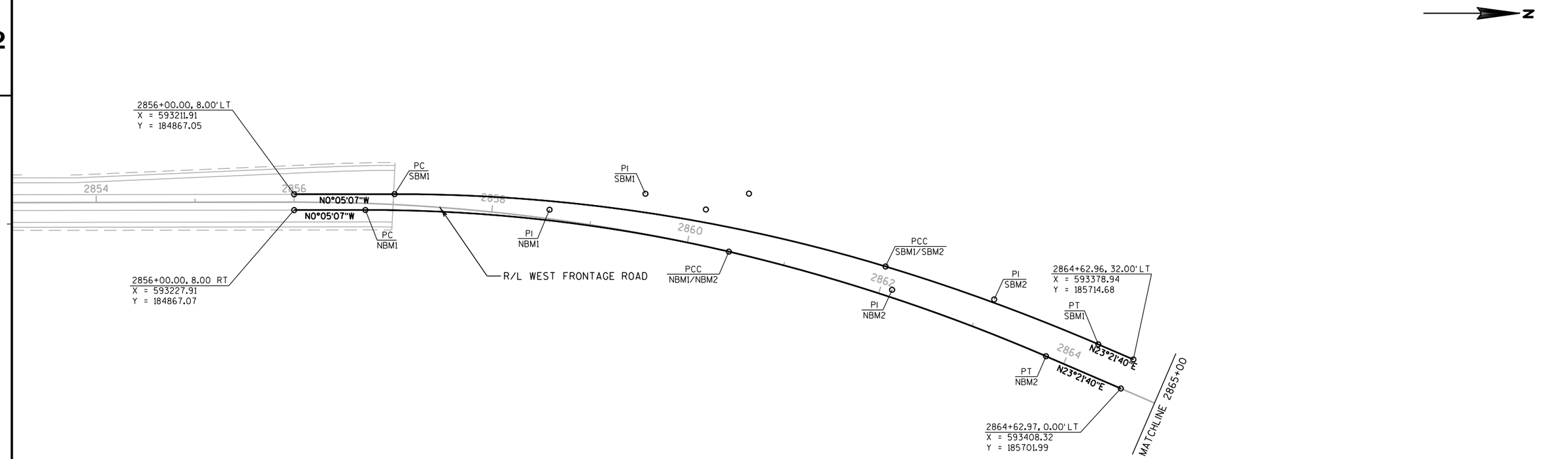
S88°35'16"E 2487.79'

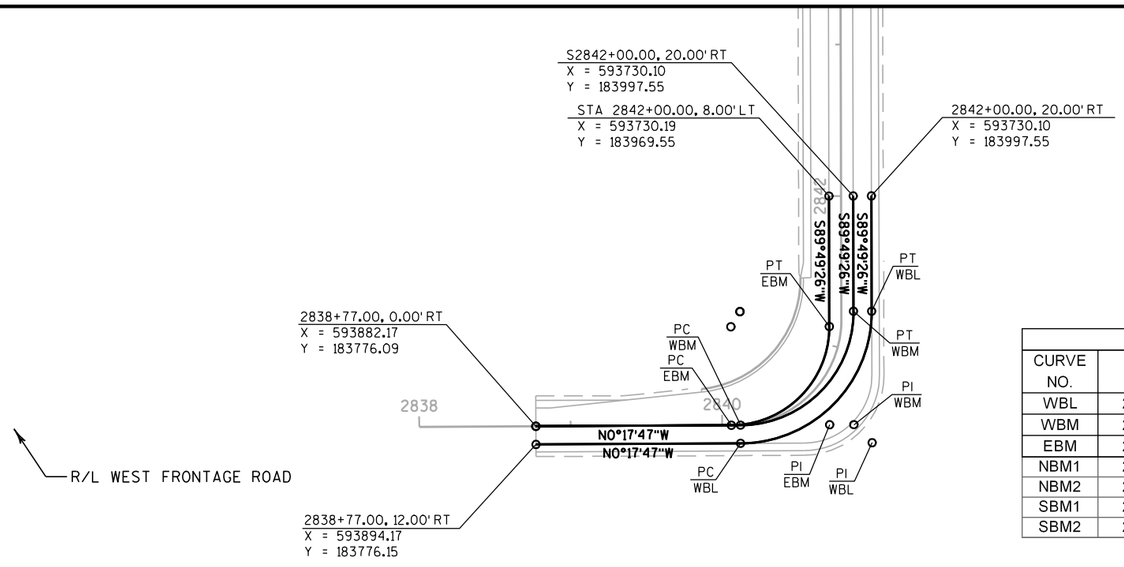
1/4 LINE

X=596567.92
Y=188923.50

CURVE DATA											
CURVE NO.	PI	PI COORDINATES X	PI COORDINATES Y	Δ	D	T	L	E	R	PC	PT
3	889+89.14	594022.57	188258.10	0°52'44"	0°06'00"	439.52	879.02	1.69	57301.78	885+49.61	894+28.64
WN4	4891+25.43	593820.13	188390.88	14°06'22"	6°44'26"	105.17	209.27	6.48	850.00	4890+20.27	4891+42.08
WN5	4894+78.23	593876.95	188740.15	7°27'00"	1°30'00"	248.70	496.69	8.09	3820.00	4894+57.93	4897+03.96

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	ALIGNMENT LAYOUT	SHEET 72	E



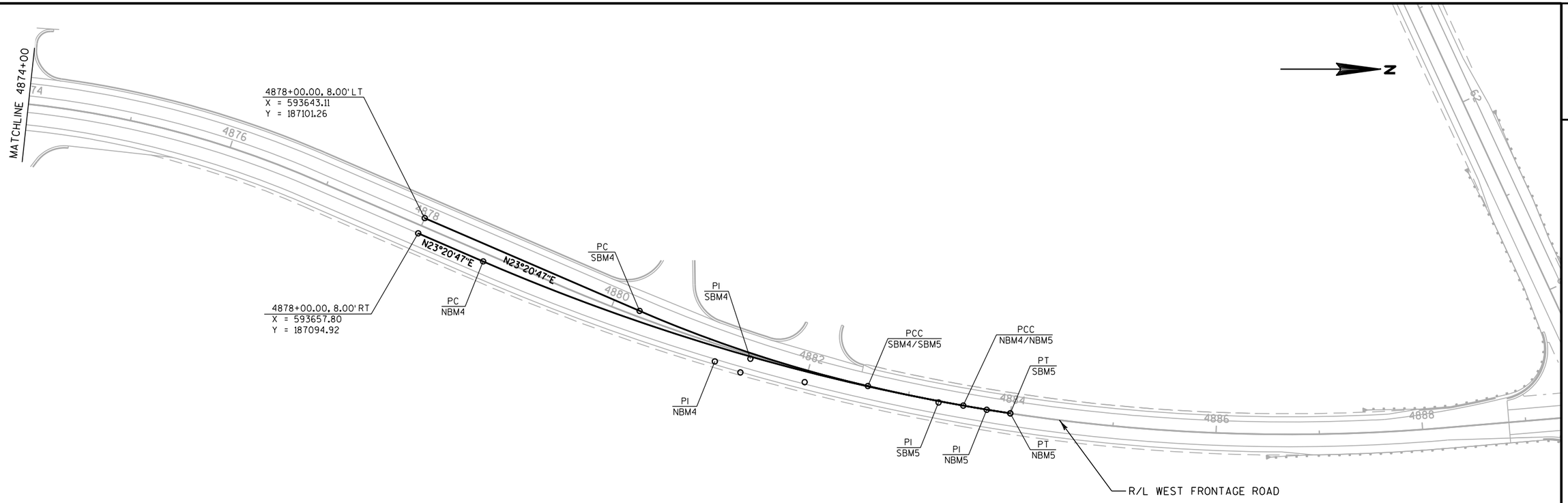


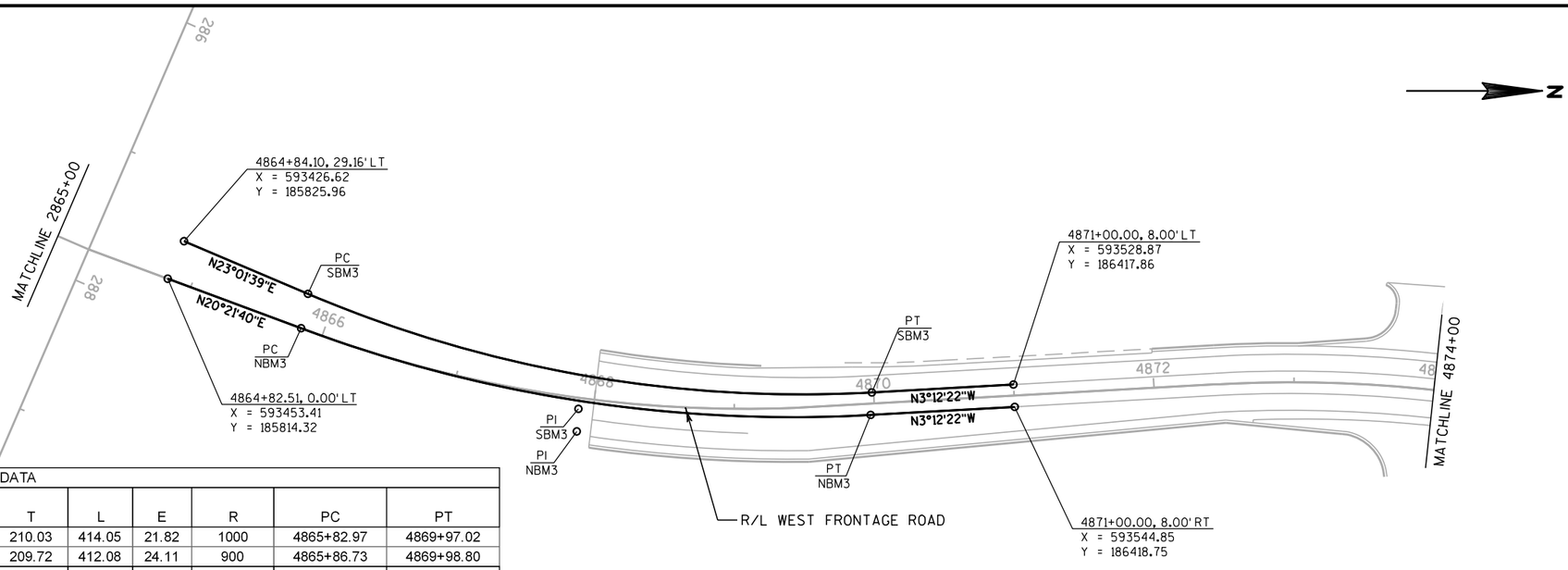
CURVE DATA

CURVE NO.	PI	PI COORDINATES X	PI COORDINATES Y	Δ	D	T	L	E	R	PC	PT
WBL	2840+98.91	593893.02	183998.05	89°52'47"	65°51'26"	86.82	136.48	35.91	87	2840+12.09	2841+48.57
WBM	2840+86.93	593881.09	183986.02	89°52'47"	76°23'40"	74.84	117.65	30.95	75	2840+12.09	2841+29.74
EBM	2840+70.93	593881.17	183970.02	89°52'47"	88°08'50"	64.86	101.97	26.83	65	2840+06.07	2841+08.04
NBM1	2858+57.92	593227.53	185124.99	13°15'41"	3°34'52"	186	370.33	10.77	1600	2856+71.92	2860+42.25
NBM2	2862+11.57	593308.52	185470.95	10°11'06"	3°00'56"	169.32	337.75	7.53	1900	2860+42.25	2863+80.00
SBM1	2859+54.82	593211.38	185221.87	16°57'27"	3°22'13"	253.42	503.14	18.79	1700	2857+01.40	2862+04.54
SBM2	2863+19.16	593318.2	185574.07	6°29'21"	2°50'01"	114.62	229	3.25	2022	2862+04.54	2864+33.54

842 844 846 848 850 852 854

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: MILWAUEE	ALIGNMENT LAYOUT - TRANSITIONAL CURVES	SHEET 73	E





CURVE DATA											
CURVE NO.	PI	PI COORDINATES X	PI COORDINATES Y	Δ	D	T	L	E	R	PC	PT
NBM3	4867+93.00	593562.35	186106.23	23°43'24"	5°43'46"	210.03	414.05	21.82	1000	4865+82.97	4869+97.02
SBM3	4867+96.44	593546.26	186107.43	26°14'01"	6°21'58"	209.72	412.08	24.11	900	4865+86.73	4869+98.80
NBM4	4881+12.56	593781.66	187381.89	13°15'41"	2°43'42"	244.12	486.06	14.14	2100	4878+68.44	4883+54.50
NBM5	4883+77.56	593828.44	187644.94	1°28'05"	3°10'59"	23.06	46.12	0.15	1800	4883+54.50	4884+00.62
SBM4	4881+43.09	593779.07	187416.25	10°15'47"	4°24'27"	116.74	232.86	5.23	1300	4880+26.34	4882+59.21
SBM5	4883+29.40	593821.38	187598.34	4°27'59"	3°10'59"	70.19	140.31	1.37	1800	4882+59.21	4883+99.52

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: MILWAUEE	ALIGNMENT LAYOUT - TRANSITIONAL CURVES	SHEET 74	E

FILE NAME : s:\FinalDesign\20\10330274_W\Roads\cds\027205_ad.dgn PLOT DATE : 07-DEC-2010 05:26 PLOT BY : MSCD1S PLOT NAME : 027205_ad PLOT SCALE : 100:1
WISDOT/CADDS SHEET 42

WEST FRONTAGE ROAD

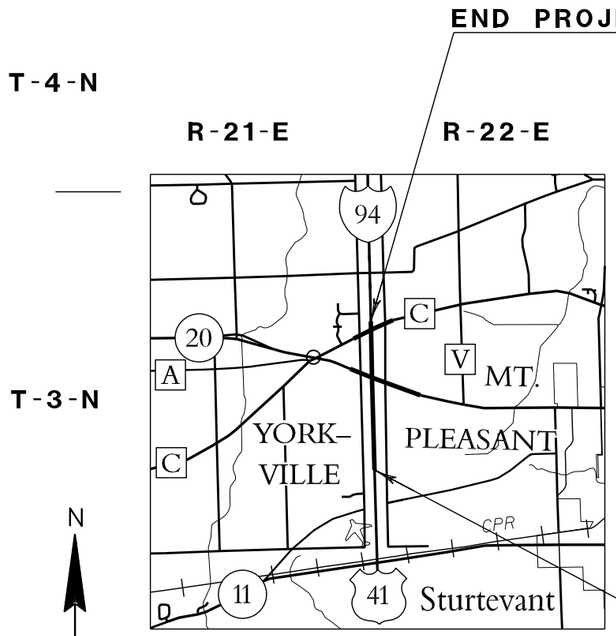
SUPERELEVATION DATA	STATION	RATE	
		LEFT	RIGHT
END NORMAL CROWN	2839+25	-2.0%	-2.0%
REMOVE CROWN	2839+75	-2.0%	FLAT
SUPER EQUALS NORMAL CROWN	2840+00	-2.0%	2.00%
BEGIN FULL SUPER	2840+25	-4.0%	4.0%
END FULL SUPER	2841+00	-4.0%	4.0%
SUPER EQUALS NORMAL CROWN	2841+25	-2.0%	2.0%
REMOVE CROWN	2841+50	-2.0%	FLAT
BEGIN NORMAL CROWN	2842+00	-2.0%	-2.0%
END NORMAL CROWN	2856+00	-2.0%	-2.0%
REMOVE CROWN	2856+50	FLAT	-2.0%
SUPER EQUALS NORMAL CROWN	2856+75	2.0%	-2.0%
BEGIN FULL SUPER	2857+00	2.9%	-2.9%
END FULL SUPER	2863+25	2.9%	-2.9%
SUPER EQUALS NORMAL CROWN	2863+50	2.0%	-2.0%
REMOVE CROWN	2863+99	FLAT	-2.0%
BEGIN NORMAL CROWN	2864+24	-2.0%	-2.0%
END NORMAL CROWN	4865+25	-2.0%	-2.0%
REMOVE CROWN	4865+75	-2.0%	FLAT
SUPER EQUALS NORMAL CROWN	4866+00	-2.0%	2.0%
BEGIN FULL SUPER	4866+50	-3.9%	3.9%
END FULL SUPER	4869+25	-3.9%	3.9%
SUPER EQUALS NORMAL CROWN	4869+50	-2.0%	2.0%
REMOVE CROWN	4870+00	-2.0%	FLAT
BEGIN NORMAL CROWN	4870+25	-2.0%	-2.0%
END NORMAL CROWN	4871+25	-2.0%	-2.0%
REMOVE CROWN	4871+75	FLAT	-2.0%
SUPER TRANSITION	4872+00	1.0%	-2.0%
SUPER TRANSITION	4872+25	2.0%	-3.0%
BEGIN FULL SUPER	4872+75	5.0%	-5.0%
END FULL SUPER	4876+50	5.0%	-5.0%
SUPER EQUALS NORMAL CROWN	4877+25	2.0%	-2.0%
REMOVE CROWN	4877+50	FLAT	-2.0%
BEGIN NORMAL CROWN	4878+00	-2.0%	-2.0%
END NORMAL CROWN	4878+50	-2.0%	-2.0%
REMOVE CROWN	4879+00	-2.0%	FLAT
SUPER EQUALS NORMAL CROWN	4879+25	-2.0%	2.0%
BEGIN FULL SUPER	4879+50	-3.6%	3.6%
END FULL SUPER	4888+00	-3.6%	3.6%
SUPER EQUALS NORMAL CROWN	4888+50	-2.0%	2.0%
SUPER TRANSITION	4889+00	-1.0%	1.0%
SUPER TRANSITION	4890+00	-1.0%	1.0%
SUPER TRANSITION	4890+25	0.0%	0.0%
SUPER EQUALS NORMAL CROWN	4890+75	2.0%	-2.0%
SUPER EQUALS NORMAL CROWN	4891+50	2.0%	-2.0%
REMOVE CROWN	4892+00	0.0%	2.0%
BEGIN NORMAL CROWN	4892+25	-2.0%	-2.0%
END NORMAL CROWN	4893+75	-2.0%	-2.0%
REMOVE CROWN	4894+25	-2.0%	0.0%
BEGIN FULL SUPER	4894+75	-2.3%	2.3%

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

TRANSPORTATION PROJECT PLAT TITLE SHEET

PROJECT NO. 1033-02-20
INTERSTATE 94
STH 20 INTERCHANGE
RACINE COUNTY





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 1033-02-20.

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. 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 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 TLE EASEMENTS ARE TO TERMINATE UPON THE COMPLETION OF THIS PROJECT OR ON THE DAY THE HIGHWAY IS OPEN TO THE TRAVELING PUBLIC, WHICHEVER IS LATER.

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	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	02	SIXTEENTH LINE	
SIGN NUMBER (OFF PREMISE)	21	EXISTING CENTERLINE	
BUILDING		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		

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

TPP NUMBER 1033-02-20-4.01
SHEET 2 OF 2

DOC # 2202146
Recorded
Feb. 18, 2009 AT 01:23PM
VOL. 1 P. 73

JAMES A LADWIG
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: 25.00

FILE NAME : J:\projects\d2_r_10330294\040400_rp.dgn PLOT DATE : 10-FEB-2009 11:13 PLOT BY : dotphk PLOT NAME : PLOT SCALE : 100.000000:1.000000
CONST. 1033-20-70 STH 20 R/W 1033-02-20 4.00

TRANSPORTATION PROJECT PLAT NO: 1033-02-20 - 4.01

THAT PART OF THE NW1/4 OF THE SW1/4, SECTION 18, TOWN 3 NORTH, RANGE 22 EAST, VILLAGE OF MT. PLEASANT, RACINE COUNTY, WISCONSIN.

RELOCATION ORDER IH-94/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			T.L.E. TEMP. ACRES
			NEW	EXISTING	TOTAL	
1	MLG/HWY 20	Fee AR	0.320	0.000	0.320	0.000
2	WOODSTOCK GROUP	Fee AR	0.122	0.000	0.122	0.000
100	WE-ENERGIES ELECTRIC	ROR	- -	- -	- -	- -
101	WE-ENERGIES GAS	ROR	- -	- -	- -	- -
103	AT&T WISCONSIN	ROR	- -	- -	- -	- -
108	TOWN OF YORKVILLE	ROR	- -	- -	- -	- -

HIGHWAY	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
I-94	I 101-1(3)	VARIES	1956
EAST FRONTAGE ROAD	1032-06-29	VARIES	1989

I-94
PISTA 839+47.69
Y 183216.67
X 594019.87
PC STA 834+61.20
PT STA 844+34.17
DELTA 0°19'28"
D 0°02'00"
L 972.97
R 171881.34
LCH 972.97
LCB N 00°17'27" W

A Cast Iron Monument
w/ A Brass Cap
Y 181012.86
X 591458.89

A Concrete Monument
w/ A Brass Cap
Y 183658.74
X 591455.76

A Cast Iron Monument
w/ A Brass Cap
Y 181033.47
X 594106.88

A Concrete Monument
w/ A Brass Cap
Y 183686.18
X 594100.16

A Concrete Monument
w/ A Brass Cap
Y 183628.16
X 596604.26

SOUTH PROJECT LIMITS
69.75'
STA 817+63.88
2652.71'
N89° 33' 14"E
2578.32'
820
825
830
EXISTING ℄ I-94
N00°27'11"W
℄ I-94
6'
835
840
PI 839+47.69
N89°24'20"E
2563.20
STA 844+16.35
81.34'
N00°08'43"W
PC 834+61.20
245'
NO ACCESS, SEE PROJ. I 101-1(3)
SEE TPP 1033-02-20-4.02
S88°40'22"E
2504.78'
SEE TPP 1033-02-20-4.02
S05°41'42"E
65.21'
52.21'
STA 3844+00.46
N00°00'55"E
60.02'
163.01'
1784.86'
SEE TPP 1033-02-20-4.02
PL
1AP
FRM505
FRM506
FRM507
FRM508
FRM509
FRM510
FRM511
FRM512
FRM513
FRM514
FRM515
FRM516
FRM517
FRM542
PC 3836+42.61
60.00'
50.00°
N35°37'26"E
50.
3835
3835+42.61
3835+50.00
10.00'
3836+49.28
3837+50.00
3842+36.09
60.00'
3843+50.00
60.00'
PT 3842+36.09
60.00'
594.69'
L 556.18
R 894.93
LCH 547.27
LCB S 17°49'11" W
60'
2
3840
℄ EAST FRONTAGE ROAD
50'
50'
60'
1
L 115.26
R 1024.93
LCH 115.20
LCB N 32°24'07" E
L 516.62
R 1014.93
LCH 511.06
LCB N 14°35'52" E

T-3-N
R-21-E
R-22-E
RACINE COUNTY
YORKVILLE
MT. PLEASANT
YORK-VILLE
PLEASANT
MT.
Sturtevant
CPR
SHEET LOCATION

PARCEL 1
CSM 1301
V 4 P 100

(100) V. 2301 P. 39 DOC. 1437519 PCL. 1
(101) NO RECORDED EASEMENT PCL. 1
(103) V 2301 P 41 DOC. 1437519 PCL. 1

VILLAGE OF
MOUNT PLEASANT

NW1/4-SW1/4

GN

SCALE, FEET
0 100 200

EAST FRONTAGE ROAD
PISTA 3839+49.28
Y 183199.84
X 594759.75
PC STA 3836+42.61
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 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. 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 ¾" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT, BY SE REGION DOT SURVEY.

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 IS APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE: 2/10/09 Robert Druffel
Name
Title

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 2/10/09 Paul Krause
Name

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1033-02-20-4.01
SHEET 1 OF 2
AMENDMENT NO:

DOC # 2202146
Recorded
Feb. 18, 2009 AT 01:23PM
VOL. 1 P. 72
James A. Ladwig
JAMES A LADWIG
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: 165.00

FILE NAME : C:\Users\P\D2\10330200\STH20\CadLinks\040401_rp.dgn PLOT DATE : 10-FEB-2009 11:28 PLOT BY : dotphk PLOT NAME : PLOT SCALE : 100.000000:1.000000
CONST. 1033-02-70 STH 20 R/W 1033-02-20 4.01

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF DOCUMENT #2202146, 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	DJ 2483	VARIES	1923
STH 20	F065-1(6)	VARIES	1963
EAST FRONTAGE ROAD	1032-06-29	VARIES	1989
EAST FRONTAGE ROAD	CSM 1378	60'	1988
HOSPITALITY COURT	CSM 1983	66'	1997
HOSPITALITY COURT	CSM 1783	66'	1995

I-94
PI STA 839+47.69
Y 183216.67
X 594019.87
PC STA 834+61.20
PT STA 844+34.17
DELTA 0°19'28"
D 0°02'00"
L 972.97
R 171881.34
LCH 972.97
LCB N 00°17'27" W

EAST FRONTAGE ROAD
PI STA 3851+87.15
Y 184457.58
X 594760.09
PC STA 3849+78.70
PT STA 3853+95.51
DELTA 2°59'07"
D 00°42'58"
L 416.81
R 8000.00
LCH 416.76
LCB N 01°28'38" W

EAST FRONTAGE ROAD
PI STA 3856+49.68
Y 184919.59
X 594736.12
PC STA 3855+29.74
PT STA 3857+65.35
DELTA 26°28'10"
D 11°14'04"
L 235.61
R 510.00
LCH 233.52
LCB N 10°15'53" E

CURVE 1
L 204.11
R 483.07
LCH 202.59
LCB N 09°08'04" E

CURVE 2
L 56.47
R 7579.44
LCH 56.47
LCB S 02°45'23" E

CURVE 3
L 367.35
R 7699.44
LCH 367.32
LCB N 01°36'53" W

CURVE 4
L 168.32
R 366.07
LCH 166.85
LCB N 10°18'49" E

TRANSPORTATION PROJECT PLAT NO: 1033-02-20 - 4.02

THAT PART OF LOT 1 OF CSM 1983, LOT 1 OF CSM 1378, LOTS 1 AND 2 OF CSM 1627, PARCELS 1 AND 2 OF CSM 1818, AND THAT PART OF THE NW1/4 OF THE NW1/4 AND THE SW1/4 OF THE NW1/4, SECTION 18, TOWN 3 NORTH, RANGE 22 EAST, VILLAGE OF MT. PLEASANT, RACINE COUNTY, WISCONSIN

RELOCATION ORDER IH-94/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	T.L.E. TEMP. ACRES
1	MLG/HWY 20	Fee AR TLE	0.028	0.000	0.028	0.062
2	WOODSTOCK GROUP	Fee AR	0.030	0.000	0.030	0.000
3	HILIFE PROPERTIES	Fee AR TLE	0.037	0.000	0.037	0.088
4	RACINE HOTEL LLC	TLE	0.000	0.000	0.000	0.037
5	MC DONALDS	Fee AR TLE	0.007	0.000	0.007	0.223
6	CHARNICK LLC	Fee AR TLE	0.162	0.000	0.162	0.003
7	SHAH	Fee AR TLE	0.135	0.000	0.135	0.083
8	B&G REALTY	AR TLE	0.000	0.000	0.000	0.111
9	KWIK TRIP INC.	Fee AR TLE	0.147	0.000	0.147	0.460
10	CONVENIENCE STORE INV.	Fee TLE	0.174	0.000	0.174	0.155
100	WE-ENERGIES ELECTRIC	ROR	- -	- -	- -	- -
101	WE-ENERGIES GAS	ROR	- -	- -	- -	- -
103	AT&T WISCONSIN	ROR	- -	- -	- -	- -
108	TOWN OF YORKVILLE	ROR	- -	- -	- -	- -
109	VILLAGE OF MT. PLEASANT	ROR	- -	- -	- -	- -

A Concrete Monument w/ A Brass Cap Y 183658.74 X 591455.76

A Concrete Monument w/ A Brass Cap Y 183686.18 X 594100.16

A Concrete Monument w/ A Brass Cap Y 186347.14 X 594090.84

A Cast Iron Monument w/ A Brass Cap Y 183628.16 X 596604.26

SEE TPP 1033-02-20-4.06

SEE TPP 1030-02-20-4.01

SEE TPP 1033-02-20-4.03

STA 844+16.35

STA 844+34.17

STA 294+10.29 STH 20 = STA 862+37.60 R I-94

STA 294+96.54

STA 303+05.91 STH 20 = STA 3858+95.98 E FR

STA 3844+00.46

N89°24'20"E 2644.53'

N00°07'43"W

2660.98' COR. TO COR. N00°12'02"W

N0°7'44"W

EXISTING ℄ I-94

℞ I-94

℞ EAST FRONTAGE ROAD

℞ NORTH BOUND EXIT RAMP

NW1/4-NW1/4

SW1/4-NW1/4

VILLAGE OF MT. PLEASANT

NO ACCESS, SEE PROJ. 1032-06-29

860.00'

349.50'

235.21' N05°32'29"E

L 157.73
R 300.00
LCH 155.92
LCB N 65°05'17" E

DETAIL NOT TO SCALE

36.21' N00°07'43"W

S89°48'00"W 58.72'

L 21.17
R 171642.34
LCH 21.17
LCB N 00°07'56" W

S88°40'22"E 436.98'

S88°40'22"E 454.88'

S89°48'00"W

148.78'

299.20' N0°0'55"E

545.80' N0°00'55"E

S05°41'42"E 65.21'

129.41' N06°40'17"W

146.43' N00°00'55"E

271.20' N0°34'54"W

201.32' N12°45'44"W

400.97' N02°58'12"W

ACCESS BY DOC.1344160

V. 2079 P. 604

CURVE 1

CURVE 2

CURVE 3

CURVE 4

PARCEL 1

PARCEL 2

CSM 1818 V 5 P 534

CSM 1627 V 4 P 973

CSM 1783 V 5 P 431

CSM 1983 V 6 P 61

LOT 1

LOT 2

TLE SLOPES AND DRIVES

TLE SLOPES

TLE DRIVE

25' ACCESS EASE.

NO ACCESS BY CSM

HOSPITALITY COURT

1/16 LINE

S00°13'07"E 1176.95'

1329.98'

L 60.62
R 8065.00
LCH 60.62
LCB N 2°30'01" W

L 141.18
R 450.00
LCH 140.60
LCB N 12°47'12" E

DETAILS NOT TO SCALE

100.16' N01°35'25"E

N23°35'50"E 24.64'

N68°36'45"E 47.80'

N68°19'19"E

REBAR IP

N23°29'58"E

T6.06' N00°12'21"W

S56°22'21"E 566.38.40"

S56°22'21"E 1033.55'

S56°54'37"E

PI 3856+49.68

PI 3851+87.15

PI 298+15.83 Y 185345.81 X 594387.03

298+28.82 100.00'

299+34.80 100.00'

301+78.99 100.00'

302+02.17 100.00'

303+77.46 100.00'

304+00.00 110.00'

307+50.00 100.00'

308+08.99 110.00'

PRW514 PRW515 PRW516 PRW517 PRW518 PRW519 PRW520 PRW521 PRW522 PRW523 PRW524 PRW525 PRW526 PRW527 PRW528 PRW529 PRW530 PRW531 PRW532 PRW533 PRW534 PRW535 PRW536 PRW537 PRW538 PRW539 PRW540 PRW541 PRW542 PRW543 PRW544 PRW545 PRW546 PRW547 PRW548 PRW549 PRW550

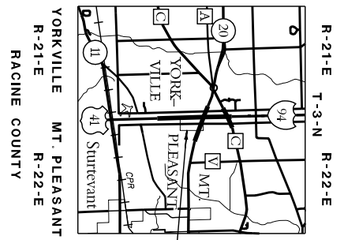
(100) V. 2301 P. 39 DOC. 1437519 PCL. 1, 3, 4
V. 1954 P. 558 DOC. 1278847 PCL. 5
NO RECORDED EASEMENT PCL. 9,10

(101) NO RECORDED EASEMENT PCL. 1,3,4,9,10

(103) V. 2301 P. 41 DOC. 1437519 PCL. 1, 3, 4

(108) V. 4 P. 307 DOC. 1267827 PCL. 5
V. 5 P. 534 DOC. 1527180 PCL. 9

(109) DOC. 1969693 PCL. 1



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. 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 SE REGION DOT SURVEY.

GN

SCALE, FEET
0 100 200

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT IS APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE: 3-18-09 Robert J. Duffield
Name
Title

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 3-18-09 Paul Krause
Name Paul Krause

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1033-02-20-4.02
AMENDMENT NO:

DOC # 2207205
Recorded
Mar. 27, 2009 AT 03:33PM
VOL. 1 P. 74
James A. Ladwig
JAMES A LADWIG
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: $25.00

100

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

FILE NAME : J:\projects\d2_r_10330294\040402_rp.dgn
APPRAISAL PLAT DATE : 02-19-09
PLOT DATE : 24-MAR-2009 08:01
PLOT BY : dotphk
PLOT NAME :
PLOT SCALE : 100.000000:1.000000
CONST. 1033-02-70 STH 20 R/W 1033-02-20 4.02

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF DOCUMENT #2202146, OF TRANSPORTATION PROJECT PLATS IN THE RACINE COUNTY REGISTER OF DEEDS.

TRANSPORTATION PROJECT PLAT NO: 1033-02-20 - 4.03

THAT PART OF THE SE1/4 OF THE SE1/4 AND THE NE1/4 OF THE SE1/4, SECTION 18, TOWN 3 NORTH, RANGE 22 EAST, VILLAGE OF MT. PLEASANT, RACINE COUNTY, WISCONSIN.

RELOCATION ORDER IH-94/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.
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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			T.L.E. TEMP. ACRES
			NEW	EXISTING	TOTAL	
1	MLG/HWY 20	Fee	0.078	0.000	0.078	0.000
11	MT. PLEASANT GROUP LLC	Fee	0.105	0.000	0.105	0.000
12	HENRY J. KUIPER	Fee TLE	0.459	0.000	0.459	0.157
39	MT. PLEASANT GROUP LLC	Fee	0.111	0.000	0.111	0.000
100	WE-ENERGIES ELECTRIC	ROR	- -	- -	- -	- -
101	WE-ENERGIES GAS	ROR	- -	- -	- -	- -
103	AT&T WISCONSIN	ROR	- -	- -	- -	- -
109	VILLAGE OF MT. PLEASANT	ROR	- -	- -	- -	- -

HIGHWAY	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
STH 20	F065-1(6)	VARIES	1963
TOWN ROAD	CSM 1171	66'	1986

A Cast Iron Monument
w/ A Brass Cap
Y 186275.68
X 596599.43

T 3 N, R 22 E: 7, 7, 18, 18

SEE TPP 1033-02-20-4.04

NE1/4-SE1/4

TLE SLOPES

27.33'
278.23'
267.18'
105'
130'
114.80'
NO ACCESS, SEE PROJ. 1032-06-29
WIDTH VARIES
123.78'
N56°54'37"W
71.70'
100'
310
88'
ROAD
30'
17'
100'
25'
315
320
109.40'
33'
112.12'
S74°22'06"E
S60°33'57"E
S77°39'57"E
ACCESS BY DOC. 1269031 V. 1936 P. 578 AND DOC. 1588896 V. 795 P. 580
CURVE 1
105.63'
STA 322+20.40
EAST PROJECT LIMITS
114.46'
PI 321+32.17

310+00.00
105.00', 130.00'
PRM546
PRM545
PRM547
PRM549
PRM523
PRM524
PRM525

PC 315+88.05
130.00'
44.03'
N23°35'13"W
316+20.94
160.00'
N23°17'56"E

1/16 LINE
NO0°06'17"W
PL
1755.52'
671.91'
MT. PLEASANT
DOC. 1329633
1/4 AP
V. 2050 P. 613

SEE TPP 1033-02-20-4.02
NO0°13'07"W
1/16 LINE

ORIGINAL STH 20 ℄ (1963)
RE STH 20
S66°22'21"E

312+00.00
125.00'
309+00.00
125.00'

TOWN ROAD
66'
OUTLOT 1
OUTLOT 2
LOT 1
CSM 1171
VOL 3 PAGE 432
LOT 1
CSM 1656
V 5 P 73
VILLAGE OF MT. PLEASANT
SE1/4-SE1/4

STH 20
PI STA 321+32.17
Y 184417.44
X 596509.19
PC STA 315+88.05
PT STA 326+73.03
DELTA -10°50'59"
D 0°59'60"
L 1084.97
R 5729.62
LCH 1083.35
LCB S 71°47'50" E

CURVE 1
L 632.35
R 5729.62
LCH 632.03
LCB S 69°32'03" E

L 599.46
R 5729.62
LCH 599.19
LCB N 69°41'55" W

(100) V. 1578 P. 413 DOC. 1079202 PCL. 11
(101) V. 1579 P. 121 DOC. 1079400 PCL. 11
(103) V. 2312 P. 135 DOC. 1441715 PCL. 12
(109) DOC. 1969693 PCL. 1 DOC. 1969690 PCL. 11

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

A Concrete Monument
w/ A Brass Cap
Y 183686.18
X 594100.16

T 3 N, R 21 E: 13, 18, 13, 18

2504.77'
S88°40'22"E

A Cast Iron Monument
w/ A Brass Cap
Y 183628.16
X 596604.26

T 3 N, R 22 E: 18, 18, 18, 18

GN

SCALE, FEET
0 100 200

R-21-E R-22-E

SHEET LOCATION

T-3-N T-3-N

N

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

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. 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 ¾" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT, BY SE REGION DOT SURVEY.

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT IS APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE: 3-18-09 Robert D Dufford
Name
Title

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 3-18-09 Paul Krause
Name Paul Krause

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1033-02-20-4.03
AMENDMENT NO:

DOC # 2207206
Recorded
Mar. 27, 2009 AT 03:37PM
VOL. 1 P. 75
James A. Lewis
JAMES A LEWIS
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: 125.00

101

FILE NAME : J:\projects\d2_r_10330294\040403_rp.dgn
APPRAISAL PLAT DATE :
PLOT DATE : 17-MAR-2009 13:07 PLOT BY : dotphk PLOT NAME : PLOT SCALE : 100.000000:1.000000
CONST. 1033-02-70 STH 20 R/W 1033-02-20 4.03

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF DOCUMENT #2202146, OF TRANSPORTATION PROJECT PLATS IN THE RACINE COUNTY REGISTER OF DEEDS.

TRANSPORTATION PROJECT PLAT NO: 1033-02-20 - 4.04 AMENDMENT NO: 1

AMENDS PARCELS 13, 14, 100, 101 & ADDS PARCEL 112 OF TPP 1033-02-20-4.04, RECORDED AS DOCUMENT 2207207.

THAT PART OF LOT 1 OF CSM 1993, LOT 1 OF CSM 1536 AND THAT PART OF THE NE1/4 OF THE NW1/4 AND THE NW1/4 OF THE NW1/4, SECTION 18, TOWN 3 NORTH, RANGE 22 EAST, VILLAGE OF MT. PLEASANT, RACINE COUNTY, WISCONSIN.

RELOCATION ORDER IH-94/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.

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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:

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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.

SCALE, FEET
0 100 200

I-94
PI STA 867+54.65
Y 186023.63
X 594013.56
PC STA 863+23.06
PT STA 871+86.23
DELTA 00°21'35"
D 00°02'30"
L 863.17
R 137503.87
LCH 863.17
LCB N 00°03'04" E

RELOCATED EAST FRONTAGE ROAD
PI STA 5868+01.25
Y 185995.04
X 595190.70
PC STA 5862+95.66
PT STA 5871+80.03
DELTA 69°24'45"
D 7°50'55"
L 884.38
R 730.00
LCH 831.28
LCB N 11°06'33" W

A Concrete Monument w/ A Brass Cap
Y 183686.18
X 594100.16

A Concrete Monument w/ A Brass Cap
Y 186347.14
X 594090.84

A Cast Iron Monument w/ A Brass Cap
Y 186275.68
X 596599.43

VILLAGE OF MT. PLEASANT

NW1/4-NW1/4

NE1/4-NW1/4

SEE TPP 1033-02-20-4.08

SEE TPP 1033-02-20-4.05

SEE TPP 1033-02-20-4.03

SEE PLAT 1032-06-29

SEE TPP 1033-02-20-402

TLE SLOPES AND DRIVES

NO ACCESS, SEE PROJ. 1101-1(3)

DETAIL NOT TO SCALE

DETAIL A NOT TO SCALE

DETAIL B NOT TO SCALE

DETAIL C NOT TO SCALE

(108) V. 2090 P. 303 DOC. 1349538 PCL. 14, 15

(109) DOC. 1969715 PCL. 13 DOC. 1969714 PCL. 14 DOC. 1969713 PCL. 15

(100) V. 2708 P. 40 DOC. 1607079 PCL. 13 V. 2179 P. 414 DOC. 1387882 PCL. 14

(101) NO RECORDED EASEMENT PCL. 15, 16

(103) V. 2312 P. 133 DOC. 1441715 PCL. 12, 13 V. 2708 P. 40 DOC. 1607079 PCL. 13 V. 2312 P. 136 DOC. 1441716 PCL. 15 V. 2179 P. 414 DOC. 1387882 PCL. 14 V. 2428 P. 710 DOC. 1492467 PCL. 14 V. 2699 P. 507 DOC. 1603756 PCL. 12

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
12	KUIPER, HENRY J	Fee AR TLE	2.823	0.000	2.823	0.191
13	HWY 20 LLC	Fee AR TLE	0.102	0.000	0.102	0.421
14	SPIRIT MASTER FUNDING II LLC	Fee AR TLE	0.097	0.000	0.097	0.238
15	MEURER TRUST	Fee TLE	0.333	0.000	0.333	0.250
16	LV 20 LLC	Fee AR	0.373	0.000	0.373	0.000
112	KUIPER, HENRY J	Fee	0.317	0.000	0.317	0.000
100	WE-ENERGIES ELECTRIC	ROR	- -	- -	- -	- -
101	WE-ENERGIES GAS	ROR	- -	- -	- -	- -
103	AT&T WISCONSIN	ROR	- -	- -	- -	- -
108	TOWN OF YORKVILLE	ROR	- -	- -	- -	- -
109	VILLAGE OF MT. PLEASANT	ROR	- -	- -	- -	- -

HIGHWAY	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
I-94	I 101-1(3)	VARIES	1956
STH 20	F065-1(6)	VARIES	1963
EAST FRONTAGE ROAD	1032-06-29	VARIES	1989
KILBOURN DRIVE	CSM 1993	80'	1997

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT IS APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE: 6-29-2010 — Name / Title

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 6-29-2010 — Name PAUL KRAUSE

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1033-02-20-4.04
AMENDMENT NO: 1

FILE NAME : J:\projects\d2_r_10330294\20\040404A1_rp.dgn
APPRAISAL PLAT DATE :
PLOT DATE : 29-JUN-2010 07:10
PLOT BY : dotphk
PLOT NAME :
PLOT SCALE : 100.000000:1.000000
CONST. 1033-02-70 STH 20 R/W 1033-02-20 4.04

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF DOCUMENT #2202146, 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. 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 ¾" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT, BY SE REGION DOT SURVEY.

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
17	I-94 ASSOCIATES	Fee, AR, TLE	6.348	0.000	6.348	0.445

HIGHWAY	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
I-94	I 101-1(3)	VARIES	1956
STH 20	1032-06-29	VARIES	1989
CTH C	I 101-1(3)	140'	1956

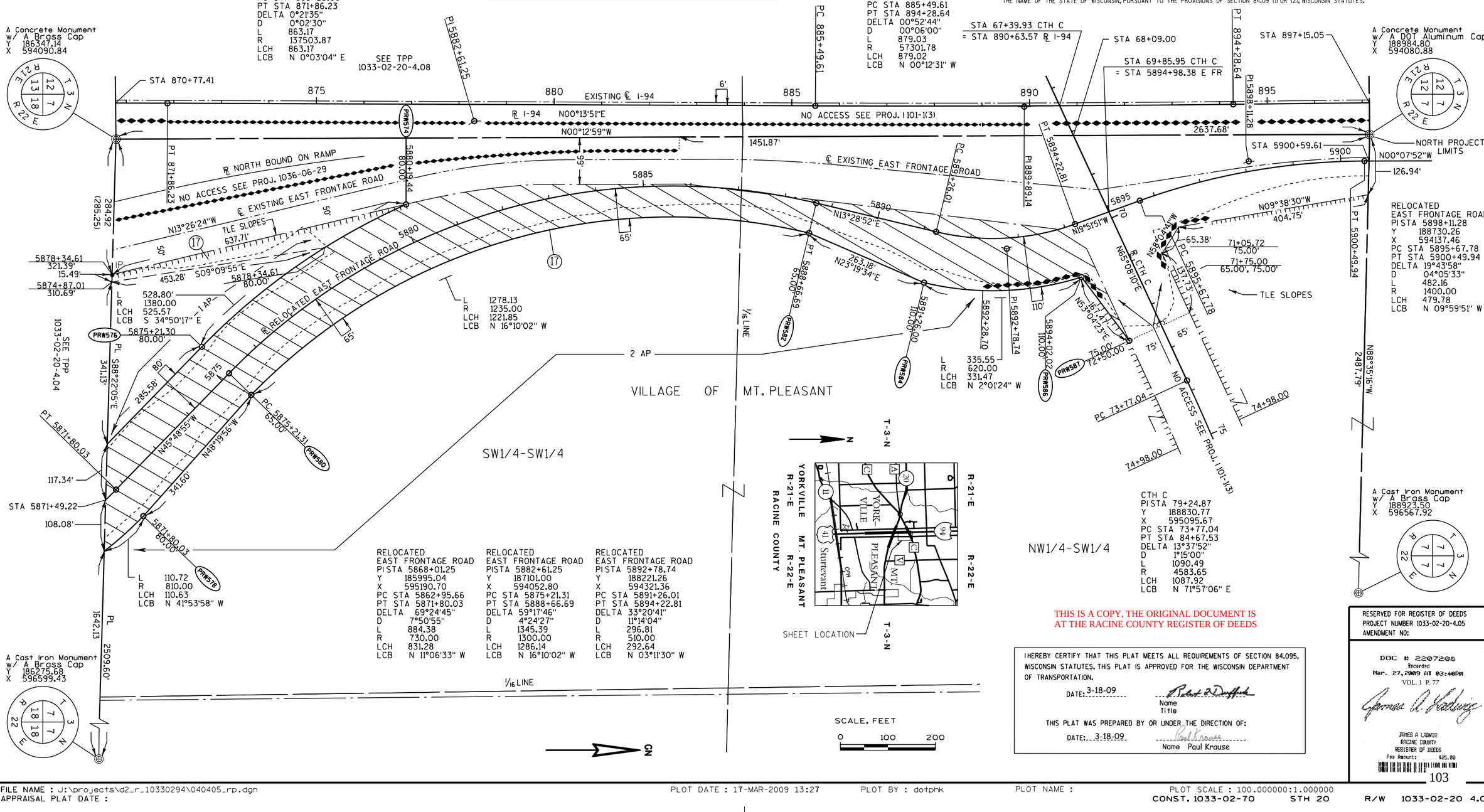
TRANSPORTATION PROJECT PLAT NO: 1033-02-20 - 4.05

THAT PART OF THE NW1/4 OF THE SW1/4 AND THE SW1/4 OF THE SW1/4 OF SECTION 7, TOWN 3 NORTH, RANGE 22 EAST, VILLAGE OF MT. PLEASANT, RACINE COUNTY, WISCONSIN.

RELOCATION ORDER IH-94/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.



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 IS APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE: 3-18-09 Robert D. Duffield
Name
Title

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 3-18-09 Paul Krause
Name Paul Krause

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1033-02-20-4.05
AMENDMENT NO:

DOC # 2207208
Recorded
Mar. 27, 2009 AT 03:40PM
VOL. 1 P. 77
James A. Ladwig
JAMES A LADWIG
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: $25.00

FILE NAME : J:\projects\d2_r_10330294\040405_rp.dgn
APPRAISAL PLAT DATE :
PLOT DATE : 17-MAR-2009 13:27
PLOT BY : dotphk
PLOT NAME :
PLOT SCALE : 100.000000:1.000000
CONST. 1033-02-70 STH 20 R/W 1033-02-20 4.05

TRANSPORTATION PROJECT PLAT NO: 1033-02-20 - 4.06

THAT PART OF PARCEL 4 OF CSM 2008, PARCELS 1 AND 2 OF CSM 1950, PARCELS 1 AND 2 OF CSM 2154, PARCELS 1 AND 2 OF CSM 2604, PARCELS 1 AND 2 OF CSM2150, PARCELS 1 AND 2 OF CSM 2044, AND THAT PART OF THE NE1/4 OF THE NE1/4 AND THE SE1/4 OF THE NE1/4 OF SECTION 13, TOWN 3 NORTH, RANGE 21 EAST, TOWN OF YORKVILLE, RACINE COUNTY, WISCONSIN

RELOCATION ORDER IH-94/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	T.L.E. TEMP. ACRES
18	SIERRA PROPERTIES LLC	Fee AR	0.328	0.000	0.328	0.000
19	REICO INVESTMENTS INC.	Fee AR TLE	0.286	0.000	0.286	.0310
20	WILLKOMM DEVELOPMENT LLP	Fee AR TLE	0.252	0.000	0.252	0.768
21	SNIKNEJ CO.	Fee AR	0.564	0.000	0.564	0.000
22	MOSHI HOTELS	Fee AR	0.026	0.000	0.026	0.005
23	MASKAL LLC	Fee AR	0.023	0.000	0.023	0.008
24	XYLON OF WISCONSIN INC.	AR TLE	0.000	0.000	0.000	0.083
25	TRIPLE H	AR TLE	0.000	0.000	0.000	0.106
26	SPOKES LLC	TLE	0.000	0.000	0.000	0.015
27	RACINE COUNTY CONVENTION CENTER	TLE	0.000	0.000	0.000	0.036
36	SNIKNEJ CO.	Fee AR	0.522	0.000	0.522	0.000
37	SNIKNEJ CO.	TLE	0.000	0.000	0.000	0.060
100	WE-ENERGIES ELECTRIC	ROR	- -	- -	- -	- -
101	WE-ENERGIES GAS	ROR	- -	- -	- -	- -
103	AT&T WISCONSIN	ROR	- -	- -	- -	- -
107	TIME WARNER CABLE	ROR	- -	- -	- -	- -
108	TOWN OF YORKVILLE	ROR	- -	- -	- -	- -

(100) V. 2683 P. 372 DOC. 1597577 PCL. 20
V. 2251 P. 323 DOC. 1417354 PCL. 20
V. 2670 P. 833 DOC. 1592809 PCL. 20
V. 2435 P. 793 DOC. 1495719 PCL. 22, 23
V. 2674 P. 417 DOC. 1594130 PCL. 24, 36
DOC. 1923809 PCL. 24
V. 2422 P. 248 DOC. 1489365 PCL. 21
NO RECORDED EASEMENT 18, 19, 20, 25

(101) NO RECORDED EASEMENT PCL. 18

(107) NO RECORDED EASEMENT PCL. 19,20,22,23,24,25,36

(103) V. 3010 P. 829 DOC. 1720105 PCL. 20
V. 2435 P. 793 DOC. 1495719 PCL. 22, 23
V. 2312 P. 152 DOC. 1442099 PCL. 25, 26, 27, 37
V. 2674 P. 417 DOC. 1594130 PCL. 24, 36
V. 2422 P. 248 DOC. 1489365 PCL. 21
V. 2362 P. 959 DOC. 1462193 PCL. 25
V. 2998 P. 592 DOC. 1715613 PCL. 25
V. 2998 P. 595 DOC. 1715614 PCL. 27
V. 2428 P. 702 DOC. 1492463 PCL. 27
V. 2251 P. 323 DOC. 1417354 PCL. 20

(108) V. 2474 P. 431 DOC. 1512697 PCL. 19, 20
V. 2051 P. 183 DOC. 1329937 PCL. 20
V. 2474 P. 428 DOC. 1512696 PCL. 22, 23
V. 3033 P. 412 DOC. 1728759 PCL. 24
V. 2474 P. 428 DOC. 1512698 PCL. 21, 24, 25, 36
DOC. 2069463 PCL. 21
V. 3014 P. 681 DOC. 1721604 PCL. 36
V. 3018 P. 001 DOC. 1722912 PCL. 27
V. 3014 P. 681 DOC. 1721605 PCL. 26, 37

A Concrete Monument w/ A Brass Cap
Y 183658.74
X 591455.76

SEE TPP 1033-02-20-4.07

SHEET LOCATION

NE1/4-NE1/4

TOWN OF YORKVILLE

SE1/4-NE1/4

HIGHWAY	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
I-94	I 101-1(3)	VARIES	1956
STH 20	2341-01-21	VARIES	1966
STH 20	1032-06-29	VARIES	1989

1AP* EXISTING SHARED ACCESS DRIVEWAY TO REMAIN.

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF DOCUMENT #2202146, OF TRANSPORTATION PROJECT PLATS IN THE RACINE COUNTY REGISTER OF DEEDS.

A Concrete Monument w/ A Brass Cap
Y 183686.18
X 594100.16

I-94
PI STA 839+47.69
Y 183216.67
X 594019.87
PC STA 834+61.20
PT STA 844+34.17
DELTA 0°19'28"
D 0°02'00"
L 972.97
R 171881.34
LCH 972.97
LCB N 00°17'27" W

WEST FRONTAGE ROAD
PI STA 2840+78.93
Y 183978.02
X 593881.13
PC STA 2840+09.08
PT STA 2841+18.89
DELTA 89°52'47"
D 81°51'04"
L 109.81
R 70.00
LCH 98.89
LCB N 45°14'10" W

WEST FRONTAGE ROAD
PI STA 2859+97.38
Y 185264.44
X 593219.32
PC STA 2856+03.11
PT STA 2863+80.62
DELTA 23°26'47"
D 3°00'56"
L 777.51
R 1900.00
LCH 772.10
LCB N 11°38'17" E

A Concrete Monument w/ A Brass Cap
Y 186347.14
X 594090.84

CURVE 1
L 396.97
R 1356.39
LCH 395.55
LCB N 13°32'19" E

CURVE 2
L 358.21
R 1472.39
LCH 357.32
LCB N 14°57'05" E

THIS IS A COPY, THE ORIGINAL DOCUMENT IS AT 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. 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 ¾" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT, BY SE REGION DOT SURVEY.

SCALE, FEET
0 100 200

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT IS APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.
DATE: 3-18-09 Name Title

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:
DATE: 3-18-09 Name Paul Krause

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1033-02-20-4.06
AMENDMENT NO:

DOC # 2202209
Recorded
Mar. 27, 2009 AT 03:42PM
VOL. 1 P. 78
JAMES A LADWIG
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: 125.00

FILE NAME : J:\projects\d2_r_10330294\040406_rp.dgn
APPRAISAL PLAT DATE : 02-19-09
PLOT DATE : 24-MAR-2009 08:03
PLOT BY : dotphk
PLOT NAME :
PLOT SCALE : 100.000000:1.000000
CONST. 1033-02-70 STH 20 R/W 1033-02-20 4.06

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF DOCUMENT #2202146, OF TRANSPORTATION PROJECT PLATS IN THE RACINE COUNTY REGISTER OF DEEDS.

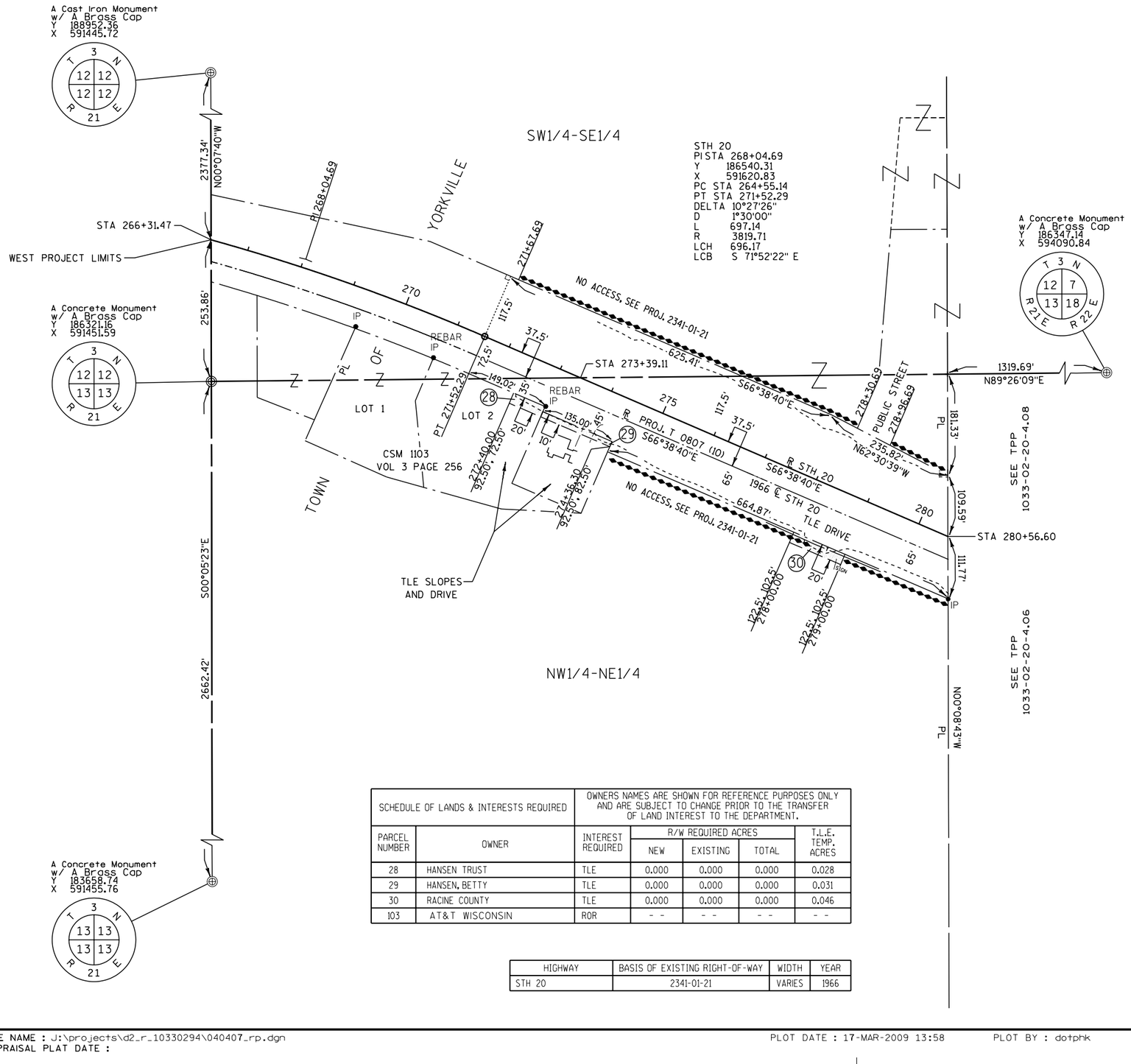
TRANSPORTATION PROJECT PLAT NO: 1033-02-20 - 4.07

THAT PART OF THE NW1/4 OF THE NE1/4 OF SECTION 13, AND THAT PART OF THE SW1/4 OF THE SE1/4 OF SECTION 12, TOWN 3 NORTH, RANGE 21 EAST, TOWN OF YORKVILLE, RACINE COUNTY, WISCONSIN.

RELOCATION ORDER IH-94/STH 20 RACINE COUNTY

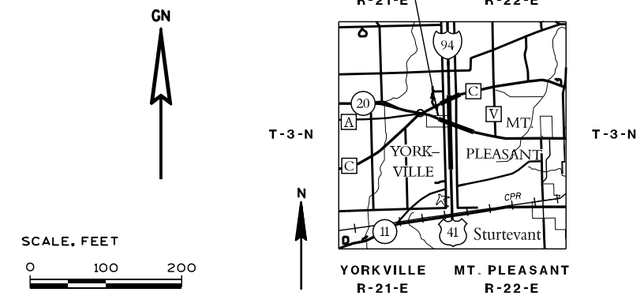
TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN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



(103) V. 2392 P. 056 DOC. 1475579
PCL. 30

SHEET LOCATION



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	
28	HANSEN TRUST	TLE	0.000	0.000	0.000	0.028
29	HANSEN, BETTY	TLE	0.000	0.000	0.000	0.031
30	RACINE COUNTY	TLE	0.000	0.000	0.000	0.046
103	AT&T WISCONSIN	ROR	- -	- -	- -	- -

HIGHWAY	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
STH 20	2341-01-21	VARIES	1966

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. 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 SE REGION DOT SURVEY.

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 IS APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE: 3-18-09 Robert J. Duffield
Name
Title

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 3-18-09 Paul Krause
Name Paul Krause

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1033-02-20-4.07
AMENDMENT NO:

DOC # 2207210
Recorded
Mar. 27, 2009 AT 03:43PM
James A. Ladwig
VOL. 1 P. 79
JAMES A LADWIG
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: 125.00

FILE NAME : J:\projects\d2_r_10330294\040407_rp.dgn
APPRAISAL PLAT DATE :
PLOT DATE : 17-MAR-2009 13:58
PLOT BY : dotphk
PLOT NAME :
PLOT SCALE : 100.000000:1.000000
CONST. 1033-02-70 STH 20 R/W 1033-02-20 4.07

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF DOCUMENT #2202146, OF TRANSPORTATION PROJECT PLATS IN THE RACINE COUNTY REGISTER OF DEEDS.

TRANSPORTATION PROJECT PLAT NO: 1033-02-20 - 4.08 AMENDMENT NO: 1

AMENDS PARCELS 31, 100, & 103 OF TPP 1033-02-20-4.08, RECORDED AS DOCUMENT 2207211.

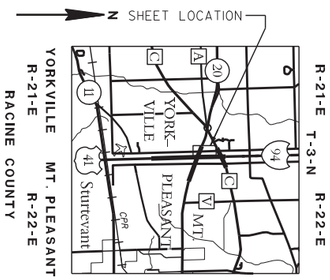
THAT PART OF THE SE1/4 OF THE SE1/4 OF SECTION 12, AND THAT PART OF THE NE1/4 OF THE NE1/4 OF SECTION 13, TOWN 3 NORTH, RANGE 21 EAST, TOWN OF YORKVILLE, RACINE COUNTY, WISCONSIN.

RELOCATION ORDER IH-94/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.

SHEET LOCATION



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
31	RALPH O. & MARY JANE TURNOCK	Fee AR TLE	0.200	0.000	0.200	1.213
32	RV CAPITOL	Fee AR TLE	0.099	0.000	0.099	0.897
33	YORKVILLE - IVES GROVE	AR TLE	0.000	0.000	0.000	0.121
34	POMP TIRE	Fee TLE	0.063	0.000	0.063	0.019
35	BRUCE HELLER	Fee TLE	0.067	0.000	0.067	0.005
38	SBA STRUCTURES INC.	Fee AR TLE	0.144	0.000	0.144	0.200
100	WE-ENERGIES ELECTRIC	ROR	- -	- -	- -	- -
101	WE-ENERGIES GAS	ROR	- -	- -	- -	- -
103	AT&T WISCONSIN	ROR	- -	- -	- -	- -
108	TOWN OF YORKVILLE	ROR	- -	- -	- -	- -

WEST FRONTAGE ROAD
P.I. STA 4883+89.59
Y 187639.40
X 593884.10
P.C. STA 4879+37.26
P.T. STA 4888+23.56
DELTA 28°12'42"
D 03°10'59"
L 886.30
R 1800.00
LCH 877.37
LCB N 09°14'25" E

WEST FRONTAGE ROAD
P.I. STA 4874+69.33
Y 186787.06
X 593516.20
P.C. STA 4872+44.01
P.T. STA 4876+86.55
DELTA 26°33'09"
D 06°00'00"
L 442.54
R 954.93
LCH 438.59
LCB N 10°04'12" E

WEST FRONTAGE ROAD
P.I. STA 4867+75.39
Y 186088.90
X 593555.31
P.C. STA 4865+87.63
P.T. STA 4869+57.83
DELTA 23°34'02"
D 06°21'58"
L 370.19
R 900.00
LCH 367.59
LCB N 08°34'39" E

I-94
P.I. STA 867+54.65
Y 186023.63
X 594013.56
P.C. STA 863+23.06
P.T. STA 871+86.23
DELTA 00°21'35"
D 00°02'30"
L 863.17
R 137503.87
LCH 863.17
LCB N 00°03'04" E

CURVE 1
L 302.24
R 676.20
LCH 299.73
LCB N 10°36'17" E

CURVE 2
L 461.09
R 994.93
LCH 456.97
LCB N 10°04'13" E

CURVE 3
L 149.46
R 914.93
LCH 149.27
LCB S 01°28'22" W

CURVE 4
L 732.26
R 137754.87
LCH 732.26
LCB N 00°04'43" E

280+08.77
110.00'
280+12.90
100.50'
109.59'
N00°08'43"E
STA 280+56.60

SEE TPP 1033-02-20-4.07

A Concrete Monument w/ A Brass Cap
Y 186521.16
X 59145.59

PL
℄ LINE
100.5'
EMERGENCY ACCESS BY PERMIT ONLY
566.38'40"E
ACCESS CONTROLLED PER PROJ. T0807(10)
282+32.11
282+86.00
283+12.00
TLE DRIVEWAY
TLE SLOPES AND DRIVES
TOWN OF YORKVILLE
SE1/4-SE1/4
NE1/4-NE1/4
DETAIL NOT TO SCALE
N68°44'22"E
85.16'
N23°21'10"E
SEE TPP 1033-02-20-4.06
P.C. 486+81.63
285 STH 20
666.33'
286+33.22
P.C. 486+81.63
100.0'
100.5'
L 239.21
R 835.00
LCH 238.39
LCB N 05°00'02" E
DETAIL NOT TO SCALE
143.29'
10'
144.13'
N17°22'12"E
52.05'
N36°46'56"E
49.22'
N25°54'30"E
2 AP
1 AP
L 198.28
R 1014.93
LCH 197.96
LCB N 17°45'00" W
L 276.10
R 1029.93
LCH 275.27
LCB N 04°28'25" W
75'
60'
65'
DOC. 2057222 75' ACCESS EASE.
NO ACCESS, SEE PROJ. 1032-06-29
STA 287+76.11 STH 20 = STA 4864+22.42 W FR
N20°21'40"E
4865
155.26'
N26°05'27"E
EXISTING ℄ CURVE 1
PRW593
4866+62.11
4866+27.60
45.00'
288+67.83
100.10'
N00°01'43"W
141.20'
158.05'
N26°45'30"E
N66°35'38"W
290
290+71.50
99.91'
4865+17.60
99.90'
IP
CANOPY
47'
84.21'
20'
℄ SOUTH BOUND OFF RAMP
STA 294+10.29 STH 20 = STA 862+37.60 R I-94
STA 294+96.54
N00°07'43"W
1786.22'
PC 863+23.06
874.76'
N00°12'02"W
SEE TPP 1033-02-20-4.04
L 268.47
R 934.93
LCH 267.55
LCB N 14°45'00" W
PT 867+54.65
L 863.21
R 137509.87
LCH 863.21
LCB N 00°03'04" E
℄ I-94
STA 870+77.41
PT 871+86.23
245'
865
870
875
880
6'
TLE SLOPES
EXISTING ℄ I-94
N00°13'51"E
PT 869+57.83
75.00', 75.00'
PT 869+32.51
PT 867+75.39
65.00'
PT 867+54.65
PT 867+86.23
271.00'
PT 868+49.77
271.00'
PT 869+57.83
75.00', 75.00'
PT 869+32.51
65.00'
PT 867+75.39
PT 867+54.65
PT 867+86.23
271.00'
PT 868+49.77
271.00'
PT 869+57.83
75.00', 75.00'
PT 869+32.51
65.00'
PT 867+75.39
PT 867+54.65
PT 867+86.23
271.00'
PT 868+49.77
271.00'
4872+44.01
75.00'
4873+50
65.00'
4874+00.00
60.00'
4874+65
60.00'
4875+00.00
75.00', 75.00'
4876+86.55
60.00'
4879+55.42
60.09'
320.18'
S69°47'01"E
4880+50.00
80.00', 70.00'
4882+00.00
80.00', 70.00'
4882+50.00
60.00'
4883+84.87
61.18'
PRW594
PRW588
PRW589
PRW590
PRW591
PRW595
PRW596
PRW597
PRW585
PRW598
PRW592
4870+23.29
STA 4870+23.29
CURVE 2
N03°12'22"W
CURVE 3
N04°12'25"W
N83°50'48"E
S05°49'57"E
98.68'
266.22'
198.46'
N00°02'47"W
TLE SLOPES AND DRIVE
3AP
CURVE 4
NO ACCESS, SEE PROJ. 1101-1(3)
L 310.50
R 945.00
LCH 309.11
LCB S 06°12'24" W
R WEST FRONTAGE ROAD
N23°20'47"E
761.35'
NO ACCESS, SEE PROJ. 1032-06-29
ACCESS FOR PARCEL 38 VIA 30' WIDE ACCESS & UTILITY EASEMENT DOC 2134055
TLE DRIVE
1AP*
SIGN
110.17'
N11°05'53"E
113.31'
N06°12'30"E
14.15'
60.09'
S10°43'39"W
130.30'
1 AP* EXISTING SHARED ACCESS DRIVEWAY TO REMAIN
L 439.94
R 1800.00
LCH 438.85
LCB S 15°46'00" W
NORTH PROJECT LIMITS
62.04'
N89°21'55"E
STA 4883+95.35
STA 883+96.28
65.69'
182.99'
PI 4883+89.59
1318.84'
447.21'
871.64'
N00°12'59"W
SEE TPP 1033-02-20-4.05
A Concrete Monument w/ A DOT Aluminum Cap
Y 188984.80
X 594080.88
A Concrete Monument w/ A Brass Cap
Y 183686.18
X 594100.16
A Concrete Monument w/ A Brass Cap
Y 186347.14
X 594090.84
26.63'
N73°16'23"E
101.24'
N10°18'26"W
DETAIL NOT TO SCALE

100 DOC. 2048716 PCL. 32
V. 2304 P. 782 DOC. 1438969 PCL. 31
NO RECORDED EASEMENT PCL. 32

101 NO RECORDED EASEMENT PCL. 35

103 V. 3418 P. 924 DOC. 1828629 PCL. 32CH
V. 2304 P. 782 DOC. 1438969 PCL. 31
V. 3418 P. 922 DOC. 1828628 PCL. 34
V. 3418 P. 920 DOC. 1828627 PCL. 35
DOC. 2048716 PCL. 32

108 V. 3089 P. 270 DOC. 1748734 PCL. 32
V. 3307 P. 711 DOC. 1802361 PCL. 33
V. 3094 P. 873 DOC. 1750721 PCL. 35

HIGHWAY	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
I-94	I 101-1(3)	VARIES	1956
STH 20	2341-01-21	VARIES	1966
STH 20	1032-06-29	VARIES	1989

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. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

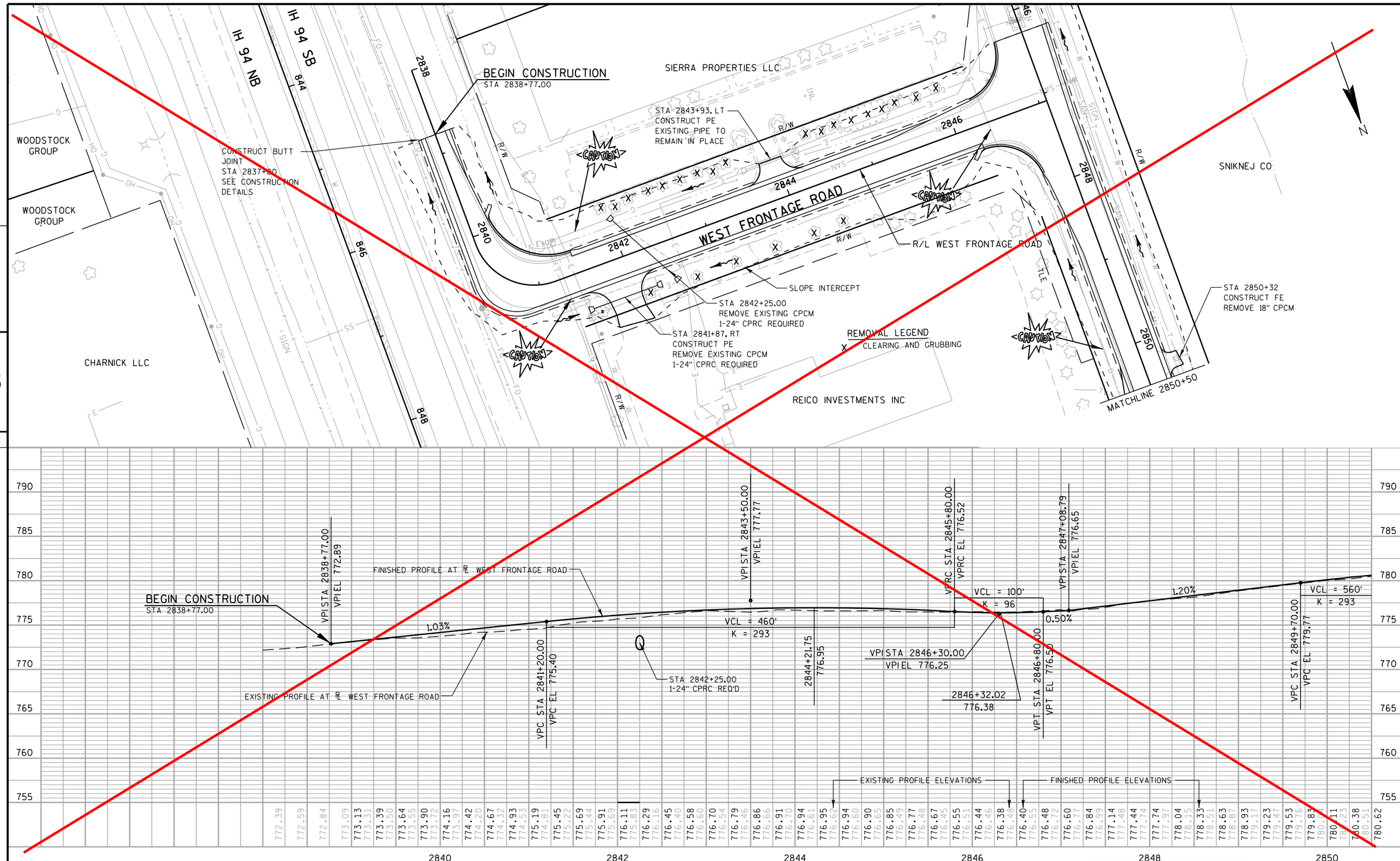
RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT, BY SE REGION DOT SURVEY.

SCALE, FEET
0 100 200

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT IS APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.
DATE: 6-28-2010
Name Craig Andersen
Title RE Supervisor
THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:
DATE: 6-28-2010
Name PAUL KRAUSE

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1033-02-20-4.08
AMENDMENT NO: 1

FILE NAME : J:\projects\d2_r_10330294\20\040408A1_rp.dgn
APPRAISAL PLAT DATE :
PLOT DATE : 28-JUN-2010 15:43
PLOT BY : dotphk
PLOT NAME :
PLOT SCALE : 100.000000:1.000000
CONST. 1033-20-70 STH 20 R/W 1033-02-20 4.08



PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	PLAN & PROFILE: WEST FRONTAGE ROAD	See new sheet #107	SHEET 107	E

FILE NAME : S:\FinalDesign\20\10330274_W\Roads\cds\050101_pp.dgn PLOT DATE : 07-DEC-2010 18:17 PLOT BY : MSCD1S PLOT NAME : 050101_pp PLOT SCALE : 100.0002:1

WISDOT/CADDS SHEET 40

Removing Concrete Bases

Remove 18" SS
1-18" CPRC Required

IH 94 NB

IH 94 SB

WOODSTOCK GROUP

WOODSTOCK GROUP

CHARNICK LLC

SIERRA PROPERTIES LLC

SNIKNEJ CO

REICO INVESTMENTS INC

BEGIN CONSTRUCTION
STA 2838+77.00

CONSTRUCT BUTT JOINT
STA 2837+00
SEE CONSTRUCTION DETAILS

STA 2843+93, LT
CONSTRUCT PE
~~EXISTING PIPE TO REMAIN IN PLACE~~

WEST FRONTAGE ROAD

R/L WEST FRONTAGE ROAD

SLOPE INTERCEPT

STA 2842+25.00
REMOVE EXISTING CPCM
1-24" CPRC REQUIRED

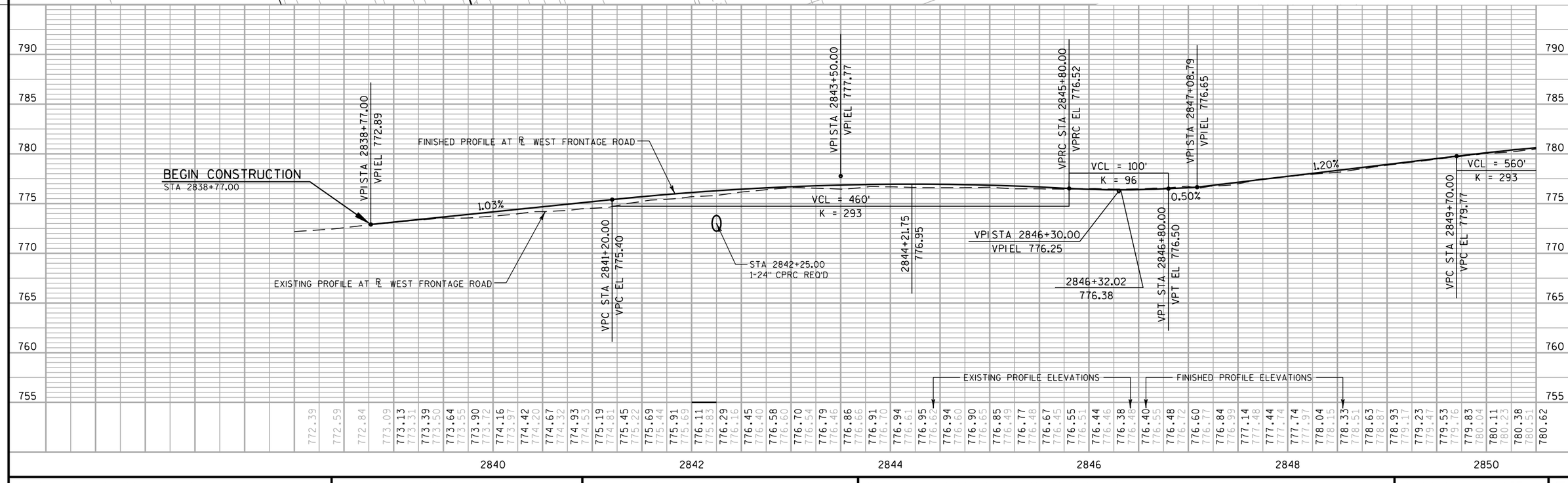
STA 2841+87, RT
CONSTRUCT PE
REMOVE EXISTING CPCM
~~1-24" CPRC REQUIRED~~

STA 2850+32
CONSTRUCT FE
REMOVE 18" CPCM
~~1 - 18" CPCS Required~~

REMOVAL LEGEND
X CLEARING AND GRUBBING

MATCHLINE 2850+50

N



PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	PLAN & PROFILE: WEST FRONTAGE ROAD	SHEET 107	E

SNIKNEJ CO

SNIKNEJ CO

STA 2853+50, RT
REMOVE 18" CPCM
CONSTRUCT PE
(NO CULVERT
REQUIRED)

SNIKNEJ CO

SNIKNEJ CO

SNIKNEJ CO

SLOPE INTERCEPT

R/L WEST FRONTAGE ROAD

SPOKES LLC

XYLON OF WISCONSIN INC

TRIPLE H

N

R/W

MATCHLINE 2850+50

2852

2854

2856

2858

2860

2862

2864

WEST FRONTAGE ROAD

CAUTION

TLE

STA 2851+70, RT
CONSTRUCT CE
(NO CULVERT
REQUIRED)

REMOVAL LEGEND
X CLEARING AND GRUBBING

END CONSTRUCTION
STA 2858+09.20

STH 20

REICO
INVESTMENTS
INC

WILLKOMM
DEVELOPMENT
LLP

WILLKOMM DEVELOPMENT LLP

WILLKOMM
DEVELOPMENT

SCALE

5

5

VPI STA 2852+50
VPI EL 783.12

VPT STA 2855+30.00
VPT EL 781.11

FINISHED PROFILE AT ℄ WEST FRONTAGE ROAD

END CONSTRUCTION
STA 2857+09.20

-0.72%

VCL = 560'
K = 293

HP STA 2853+20.16
HP EL 781.86

EXISTING PROFILE AT ℄ WEST FRONTAGE ROAD

VPC STA 2858+00.00
VPC EL 779.18

790
785
780
775
770
765
760
755

EXISTING PROFILE ELEVATIONS

780.51 780.62 780.84 781.07 781.21 781.37 781.50 781.62 781.71 781.78 781.83 781.86 781.86 781.85 781.81 781.76 781.68 781.58 781.46 781.31 781.15

FINISHED PROFILE ELEVATIONS

780.97 780.79 780.61 780.43 780.25 780.07 779.89 779.71 779.54 779.36 779.18

780.71 780.84 781.00 781.20 781.38 781.49 781.51 781.49 781.67 781.72 781.69 781.67 781.67 781.64 781.35 781.09 780.91 780.84 780.85 780.68 780.66

780.42 779.99 780.12 780.13 779.91 779.68 779.51 779.42 779.20 778.83

2850 2852 2854 2856 2858

See new sheet #108

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	PLAN & PROFILE: WEST FRONTAGE ROAD	SHEET 108	E

FILE NAME : S:\FinalDesign\20\10330274_W\Roads\cds\050102_pp.dgn PLOT DATE : 07-DEC-2010 18:18 PLOT BY : MSCD1S PLOT NAME : 050102_pp PLOT SCALE : 100.0002:1

WISDOT/CADDS SHEET 40

STA 2851+40, LT
Remove Existing CPM
Construct PE
2-12" CPCS

SNIKNEJ CO
SNIKNEJ CO
SNIKNEJ CO
SNIKNEJ CO
SNIKNEJ CO
SPOKES LLC
XYLON OF WISCONSIN INC
TRIPLE H
N
STA 2853+50, RT
REMOVE 18" CPCM
CONSTRUCT PE
(NO CULVERT
REQUIRED)
SLOPE INTERCEPT
R/L WEST FRONTAGE ROAD
R/W
TLE
MATCHLINE 2850+50
2852
2854
2856
2858
2860
2862
2864
WEST FRONTAGE ROAD
CAUTION
STA 2851+70, RT
CONSTRUCT CE
(NO CULVERT
REQUIRED)
REMOVAL LEGEND
X CLEARING AND GRUBBING
END CONSTRUCTION
STA 2858+09.20
REICO
INVESTMENTS
INC
WILLKOMM
DEVELOPMENT
LLP
WILLKOMM DEVELOPMENT LLP
WILLKOMM
DEVELOPMENT
STH 20
982
288
SCALE
5
5

VPI STA 2852+50
VPI EL 783.12
VPT STA 2855+30.00
VPT EL 781.11
FINISHED PROFILE AT ℄ WEST FRONTAGE ROAD
END CONSTRUCTION
STA 2857+09.20
-0.72%
VCL = 560'
K = 293
HP STA 2853+20.16
HP EL 781.86
EXISTING PROFILE AT ℄ WEST FRONTAGE ROAD
VPC STA 2858+00.00
VPC EL 779.18

790 785 780 775 770 765 760 755

EXISTING PROFILE ELEVATIONS
FINISHED PROFILE ELEVATIONS

2850	2852	2854	2856	2858
780.51	780.62 780.71	780.84 780.90	781.04 781.20	781.21 781.38
781.37 781.49	781.50 781.51	781.62 781.49	781.71 781.67	781.78 781.72
781.83 781.69	781.86 781.67	781.86 781.67	781.85 781.64	781.81 781.35
781.76 781.09	781.68 780.91	781.58 780.84	781.46 780.85	781.31 780.68
781.15 780.66	780.97 780.42	780.79 779.99	780.61 780.12	780.43 780.13
780.25 779.91	780.07 779.68	779.89 779.51	779.71 779.42	779.54 779.20
779.36 778.83	779.18			

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	PLAN & PROFILE: WEST FRONTAGE ROAD	SHEET 108	E

TRIPLE H
TLE
STH 20
SNIKNEJ CO INC
WEGGE
BEGIN CONSTRUCTION
STA 4868+00.00
STA 4869+51, LT
CONSTRUCT PE
REMOVE PLASTIC PIPE
1-19"X30" CPRCHE
REQUIRED
REMOVE
INLET
R/L WEST FRONTAGE ROAD
WILLKOMM
DEVELOPMENT
FILLER
CAPS
CONSTRUCT BUTT
JOINT
STA 4868+00
SEE CONSTRUCTION
DETAILS
WEST FRONTAGE ROAD
TURNOCK
REMOVAL LEGEND
X CLEARING AND GRUBBING
SLOPE INTERCEPT
REMOVE 2-36" CPCM
WETLAND BOUNDARY (TYP.)
MATCHLINE 4873+00
N
5
5

BEGIN CONSTRUCTION
STA 4868+00.00
-1.91%
410
760.38
412 K = 259
759.19
VCL = 366'
FINISHED PROFILE AT ℄ WEST FRONTAGE ROAD
VPI STA 4867+35.00
VPI EL 762.15
VPC STA 4867+69.42
VPC EL 761.49
VPI STA 4869+52.21
VPI EL 758.00
415
756.91
-0.50%
VPC STA 4872+40.00
VPC EL 756.56
VCL = 240'
K = 240
99' - 36" SSPRC @ 0.77%
751.98
153' - 36" SSPRC @ 0.50%
751.23
750.50
192' - 29" X 45" SSPRCHE @ 0.38%
749.74
EXISTING PROFILE AT ℄ WEST FRONTAGE ROAD
VPT STA 4871+35.00
VPT EL 757.09
EXISTING PROFILE ELEVATIONS
FINISHED PROFILE ELEVATIONS

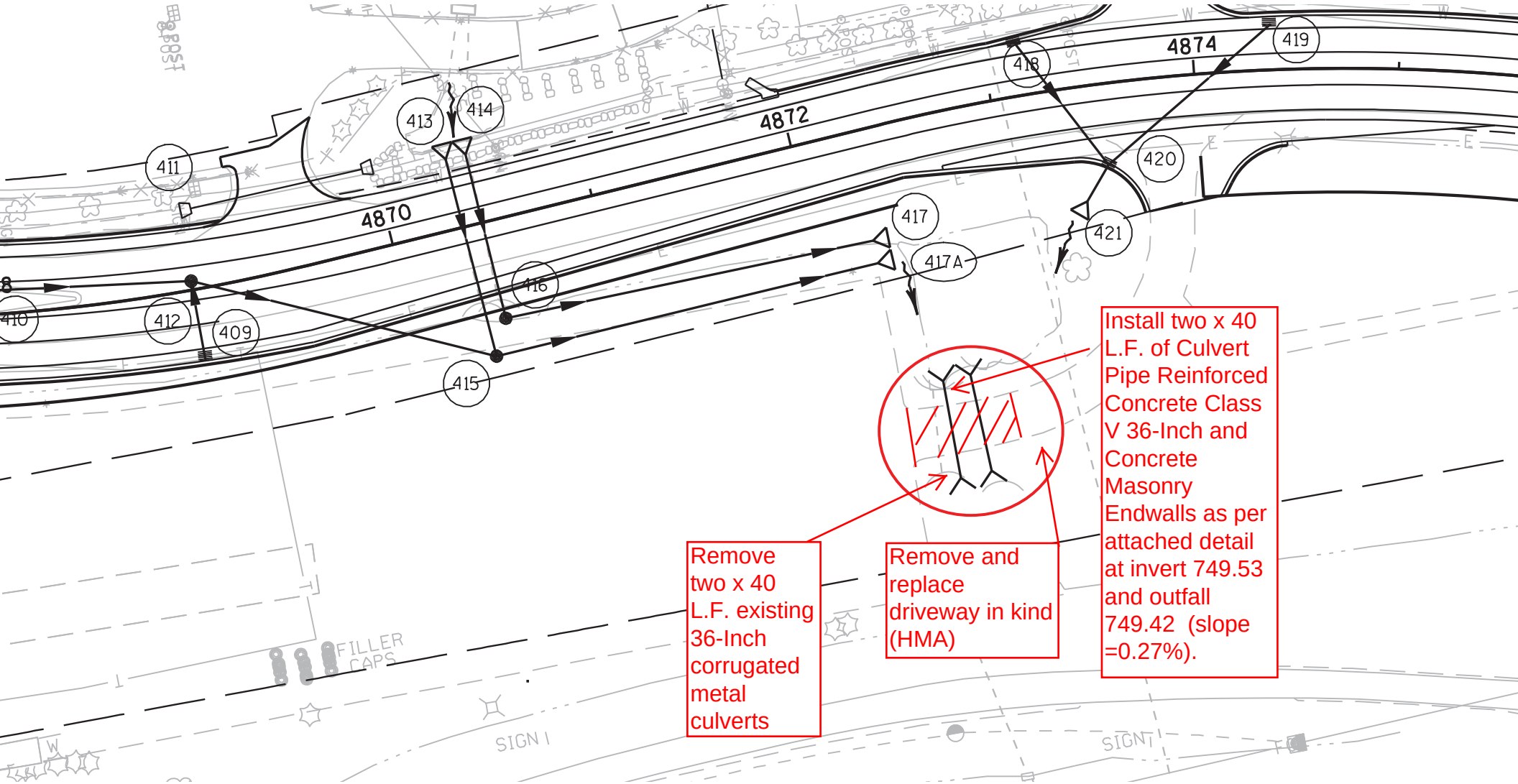
780 775 770 765 760 755 750 745

767.76 767.13 767.00 766.64 766.18 765.97 765.64 765.16 764.61 764.19 763.76 763.10 762.64 761.87 761.86 761.32 761.39 761.15 760.93 760.29 760.49 759.81 760.08 759.23 759.69 758.88 759.33 758.63 758.99 758.22 758.67 757.81 758.38 757.45 758.11 757.36 757.87 757.04 757.65 756.81 757.45 756.80 757.28 756.66 757.14 756.40 757.01 756.37 756.89 756.29 756.76 756.33 756.64 756.36 756.51 756.27 756.41 756.00 756.34

4866 4868 4870 4872

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	PLAN & PROFILE: WEST FRONTAGE ROAD	SHEET 109	E

FILE NAME : S:\FinalDesign\20\10330274_W\Roads\cds\050103_pp.dgn PLOT DATE : 07-DEC-2010 18:18 PLOT BY : MSCD1S PLOT NAME : 050103_pp PLOT SCALE : 100.0002:1


4874
4872
4870
419
418
420
421
417
417A
413
414
411
412
409
410
416
415
Install two x 40 L.F. of Culvert Pipe Reinforced Concrete Class V 36-Inch and Concrete Masonry Endwalls as per attached detail at invert 749.53 and outfall 749.42 (slope =0.27%).
Remove two x 40 L.F. existing 36-Inch corrugated metal culverts
Remove and replace driveway in kind (HMA)
FILLER CAPS
SIGN I
SIGN I

Sheet: 109A

STA 4873+84, LT
CONSTRUCT CE

MATCHLINE 4873+00

WEGGE

REMOVE 2-24" CPCM

REMOVE INLET

R/L WEST FRONTAGE ROAD

REMOVE 24" CPCM

REMOVE INLET

STA 4880+44, LT
CONSTRUCT CE

POMP TIRE INC

PACKEE

STA 4882+07, LT
CONSTRUCT CE
REMOVE 15" CPCM
1-24" CPRC REQUIRED

STA 4873+84, RT
CONSTRUCT CE

WETLAND BOUNDARY (TYP.)

TURNOCK

REMOVAL LEGEND
X CLEARING AND GRUBBING

SLOPE INTERCEPT

STA 4881+50.00
1-19"x30" CPRCHE
REQUIRED

WEST FRONTAGE ROAD

REMOVE INLET

MATCHLINE 4888+00

5

5

FINISHED PROFILE AT ℄ WEST FRONTAGE ROAD

82'- 24" SSPRC @ 1.47%

418 757.99 — LP STA 4873+60.00 LP EL 756.26 — VCL = 240' K = 240 — 419 757.64

420 754.21

115'- 24" SSPRC @ 1.52%

752.00 751.00 — 752.00 750.50

VPI STA 4873+60.00 VPI EL 755.96

VPT STA 4874+80.00 VPT EL 756.56

VPC STA 4875+10.00 VPC EL 756.71

0.50%

VPI STA 4876+60.00 VPI EL 757.46

VPT STA 4877+10.00 VPT EL 756.71

VCL = 300' K = 300

HP STA 4876+60.00 HP EL 757.09

EXISTING PROFILE AT ℄ WEST FRONTAGE ROAD

-0.50%

VPC STA 4880+80.00 VPC EL 755.36

VCL = 300' K = 294

LP STA 4882+27.21 LP EL 754.99

VPI STA 4882+30.00 VPI EL 754.61

STA 4881+50.00
1-19"x30" CPRCHE
REQUIRED

0.52%

VPT STA 4883+80.00 VPT EL 755.39

VPC STA 4884+60.00 VPC EL 755.80

VCL = 280' K = 65

4.81%

VPI STA 4886+00.00 VPI EL 756.53

VPT STA 4887+40.00 VPT EL 763.26

VPC STA 4887+60.00 VPC EL 764.22

EXISTING PROFILE ELEVATIONS

FINISHED PROFILE ELEVATIONS

4874	4876	4878	4880	4882	4884	4888
756.00	756.34	756.29	756.26	756.43	756.54	756.66	756.78	756.88	756.96	757.03	757.06	757.08	757.08	757.06	757.01	756.95	756.86	756.76	756.64	756.51	756.39	756.26	756.14	756.01	755.89	755.76	755.64	755.51	755.39	755.27	755.17	755.09	755.04	755.00	755.00	755.03	755.08	755.15	755.25	755.36	755.49	755.62	755.75	755.90	756.13	756.46	756.89	757.41	758.03	758.74	759.55	760.46	761.46	762.56	763.74	764.93	766.03
756.00	756.34	756.29	756.26	756.43	756.54	756.66	756.78	756.88	756.96	757.03	757.06	757.08	757.08	757.06	757.01	756.95	756.86	756.76	756.64	756.51	756.39	756.26	756.14	756.01	755.89	755.76	755.64	755.51	755.39	755.27	755.17	755.09	755.04	755.00	755.00	755.03	755.08	755.15	755.25	755.36	755.49	755.62	755.75	755.90	756.13	756.46	756.89	757.41	758.03	758.74	759.55	760.46	761.46	762.56	763.74	764.93	766.03
756.00	756.15	756.12	756.15	756.23	756.17	756.17	756.13	756.17	756.12	756.15	756.18	756.17	756.17	756.05	756.03	755.86	755.86	755.74	755.64	755.63	755.59	755.47	755.49	755.65	755.81	755.52	755.38	755.43	755.36	755.21	755.10	755.13	755.19	755.32	755.60	755.74	755.78	755.80	755.74	755.90	755.93	755.73	755.49	755.37	755.07	755.41	755.53	755.46	755.05	755.75	756.46	757.36	758.38	759.78	761.60	763.74	764.02

775	770	765	760	755	750	745	740

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	PLAN & PROFILE: WEST FRONTAGE ROAD	See new sheet #110	SHEET 110	E

FILE NAME : S:\FinalDesign\20\10330274_W\Roads\cds\050104_pp.dgn PLOT DATE : 07-DEC-2010 18:18 PLOT BY : MSCD1S PLOT NAME : 050104_pp PLOT SCALE : 100.0002:1

WISDOT/CADDS SHEET 40

STA 4873+84, LT
CONSTRUCT CE

SIGN

MATCHLINE 4873+00

WEGGE

TLE

REMOVE 2-24" CPCM

418 419 420 421

4874 4876 4878 4880 4882 4884 4886

R/W

REMOVE INLET

R/L WEST FRONTAGE ROAD

REMOVE 24" CPCM

REMOVE INLET

STA 4880+44, LT
CONSTRUCT CE

CAUTION

POMP TIRE INC

PACKEE

STA 4882+07, LT
CONSTRUCT CE
REMOVE 15" CPCM
1-24" ~~CPRC~~ REQUIRED
CPCS

STA 4873+84, RT
CONSTRUCT CE

WETLAND BOUNDARY (TYP.)

TURNOCK

422 423

SLOPE INTERCEPT

STA 4881+50.00
1-19"x30" CPRCHE
REQUIRED

REMOVAL LEGEND
X CLEARING AND GRUBBING

WEST FRONTAGE ROAD

REMOVE INLET
Remove 12" SS

INL

FO

SS

MATCHLINE 4888+00

5

5

FINISHED PROFILE AT ℄ WEST FRONTAGE ROAD

LP STA 4873+60.00
LP EL 756.26

82'- 24" SSPRC @ 1.47%

418 757.99
419 757.64

VCL = 240'
K = 240

0.50%

420 754.21

115'- 24" SSPRC @ 1.52%

752.00
751.00
752.00
750.50

VPI STA 4873+60.00
VPI EL 755.96

VPT STA 4874+80.00
VPT EL 756.56

VPC STA 4875+10.00
VPC EL 756.71

VPI STA 4876+60.00
VPI EL 757.46

VCL = 300'
K = 300

HP STA 4876+60.00
HP EL 757.09

VPT STA 4878+10.00
VPT EL 756.71

EXISTING PROFILE AT ℄ WEST FRONTAGE ROAD

VPC STA 4880+80.00
VPC EL 755.36

-0.50%

STA 4881+50.00
1-19"x30" CPRCHE
REQUIRED

VCL = 300'
K = 294

LP STA 4882+27.21
LP EL 754.99

VPI STA 4882+30.00
VPI EL 754.61

0.52%

VPT STA 4883+80.00
VPT EL 755.39

VPC STA 4884+60.00
VPC EL 755.80

VCL = 280'
K = 65

VPI STA 4886+00.00
VPI EL 756.53

4.81%

VPT STA 4887+40.00
VPT EL 763.26

VPC STA 4887+60.00
VPC EL 764.22

EXISTING PROFILE ELEVATIONS

FINISHED PROFILE ELEVATIONS

4874	4876	4878	4880	4882	4884	4886	4888
756.00	756.34	756.29	756.26	756.26	756.29	756.35	756.43
756.34	756.10	756.12	756.15	756.15	756.07	756.02	756.01
756.29	756.26	756.26	756.26	756.10	756.29	756.07	756.17
756.12	756.15	756.10	756.15	756.18	756.17	756.17	756.23
756.26	756.26	756.15	756.26	756.26	756.17	756.23	756.54
756.15	756.10	756.26	756.10	756.17	756.23	756.54	756.66
756.29	756.07	756.10	756.29	756.17	756.23	756.66	756.78
756.07	756.02	756.29	756.07	756.23	756.54	756.66	756.78
756.35	756.01	756.07	756.02	756.54	756.66	756.78	756.88
756.02	756.17	756.02	756.01	756.66	756.78	756.88	756.96
756.43	756.23	756.01	756.17	756.78	756.88	756.96	757.03
756.01	756.54	756.17	756.23	756.88	756.96	757.03	757.06
756.17	756.66	756.23	756.54	756.96	757.03	757.06	757.08
756.23	756.78	756.54	756.66	757.03	757.06	757.08	757.08
756.54	756.88	756.66	756.78	757.06	757.08	757.08	757.06
756.66	756.96	756.78	756.88	757.08	757.08	757.06	756.95
756.78	757.03	756.88	756.96	757.08	757.06	756.95	756.86
756.88	757.06	756.96	757.03	757.06	756.95	756.86	756.76
756.96	757.08	757.03	757.06	756.95	756.86	756.76	756.64
757.03	757.08	757.06	756.95	756.86	756.76	756.64	756.51
757.06	757.06	756.95	756.86	756.76	756.64	756.51	756.39
757.08	757.01	756.86	756.76	756.64	756.51	756.39	756.26
757.08	756.95	756.76	756.64	756.51	756.39	756.26	756.14
757.06	756.86	756.64	756.51	756.39	756.26	756.14	756.01
757.01	756.76	756.51	756.39	756.26	756.14	756.01	755.89
756.95	756.64	756.39	756.26	756.14	756.01	755.89	755.76
756.86	756.51	756.26	756.14	756.01	755.89	755.76	755.64
756.76	756.39	756.14	756.01	755.89	755.76	755.64	755.51
756.64	756.26	756.01	755.89	755.76	755.64	755.51	755.39
756.51	756.14	755.89	755.76	755.64	755.51	755.39	755.27
756.39	756.01	755.76	755.64	755.51	755.39	755.27	755.17
756.26	755.89	755.64	755.51	755.39	755.27	755.17	755.09
756.14	755.76	755.51	755.39	755.27	755.17	755.09	755.04
756.01	755.64	755.39	755.27	755.17	755.09	755.04	755.00
755.89	755.51	755.27	755.17	755.09	755.04	755.00	754.99
755.76	755.39	755.17	755.09	755.04	755.00	754.99	755.00
755.64	755.27	755.09	755.04	755.00	754.99	755.00	755.03
755.51	755.17	755.04	755.00	754.99	755.00	755.03	755.08
755.39	755.09	755.00	754.99	755.00	755.03	755.08	755.15
755.27	755.04	754.99	755.00	755.03	755.08	755.15	755.25
755.17	755.00	755.00	755.03	755.08	755.15	755.25	755.36
755.09	754.99	755.03	755.08	755.15	755.25	755.36	755.49
755.04	755.00	755.08	755.15	755.25	755.36	755.49	755.62
755.00	755.03	755.15	755.25	755.36	755.49	755.62	755.75
754.99	755.08	755.25	755.36	755.49	755.62	755.75	755.90
755.00	755.15	755.36	755.49	755.62	755.75	755.90	756.13
755.03	755.25	755.49	755.62	755.75	755.90	756.13	756.46
755.08	755.36	755.62	755.75	755.90	756.13	756.46	756.89
755.15	755.49	755.75	755.90	756.13	756.46	756.89	757.41
755.25	755.62	755.90	756.13	756.46	756.89	757.41	758.03
755.36	755.75	756.13	756.46	756.89	757.41	758.03	758.74
755.49	755.90	756.46	756.89	757.41	758.03	758.74	759.55
755.62	756.13	756.89	757.41	758.03	758.74	759.55	760.46
755.75	756.46	757.41	758.03	758.74	759.55	760.46	761.46
755.90	756.89	758.03	758.74	759.55	760.46	761.46	762.56
756.13	757.41	758.74	759.55	760.46	761.46	762.56	763.74
756.46	758.03	759.55	760.46	761.46	762.56	763.74	764.93
756.89	758.74	760.46	761.46	762.56	763.74	764.93	766.03
757.41	759.55	761.46	762.56	763.74	764.93	766.03	
758.03	760.46	762.56	763.74	764.93	766.03		
758.74	761.46	763.74	764.93	766.03			
759.55	762.56	764.93	766.03				
760.46	763.74	766.03					
761.46	764.93						
762.56	766.03						
763.74							
764.93							
766.03							

775 770 765 760 755 750 745 740

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	PLAN & PROFILE: WEST FRONTAGE ROAD	SHEET 110	E

FILE NAME : S:\FinalDesign\20\10330274_W\Roads\cds\050104_pp.dgn PLOT DATE : 07-DEC-2010 18:18 PLOT BY : MSCD1S PLOT NAME : 050104_pp PLOT SCALE : 100.0002:1

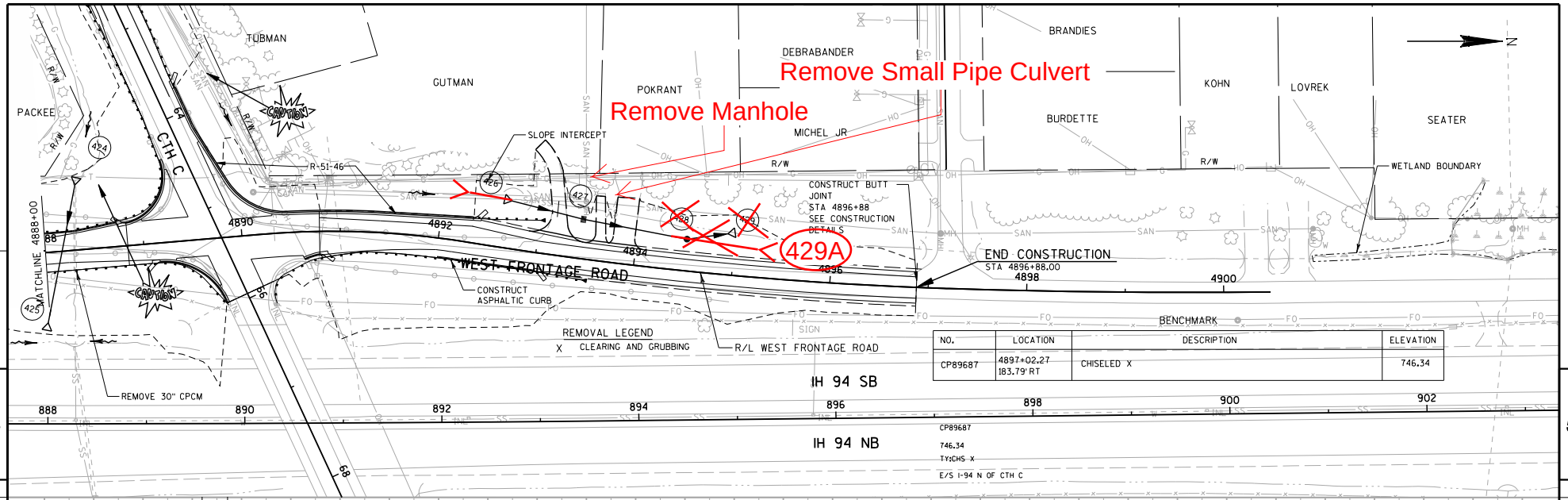
TUBMAN
GUTMAN
POKRANT
DEBRABANDER
MICHEL JR
BRANDIES
BURDETTE
KOHN
LOVREK
SEATER
PACKEE
CTH C
R/W
CAUTION
424
425
SLOPE INTERCEPT
R-51-46
CONSTRUCT BUTT JOINT STA 4896+88 SEE CONSTRUCTION DETAILS
WETLAND BOUNDARY
MATCHLINE 4888+00
WEST FRONTAGE ROAD
CONSTRUCT ASPHALTIC CURB
END CONSTRUCTION STA 4896+88.00
REMOVAL LEGEND
X CLEARING AND GRUBBING
R/L WEST FRONTAGE ROAD
REMOVE 30" CPCM
IH 94 SB
IH 94 NB
BENCHMARK

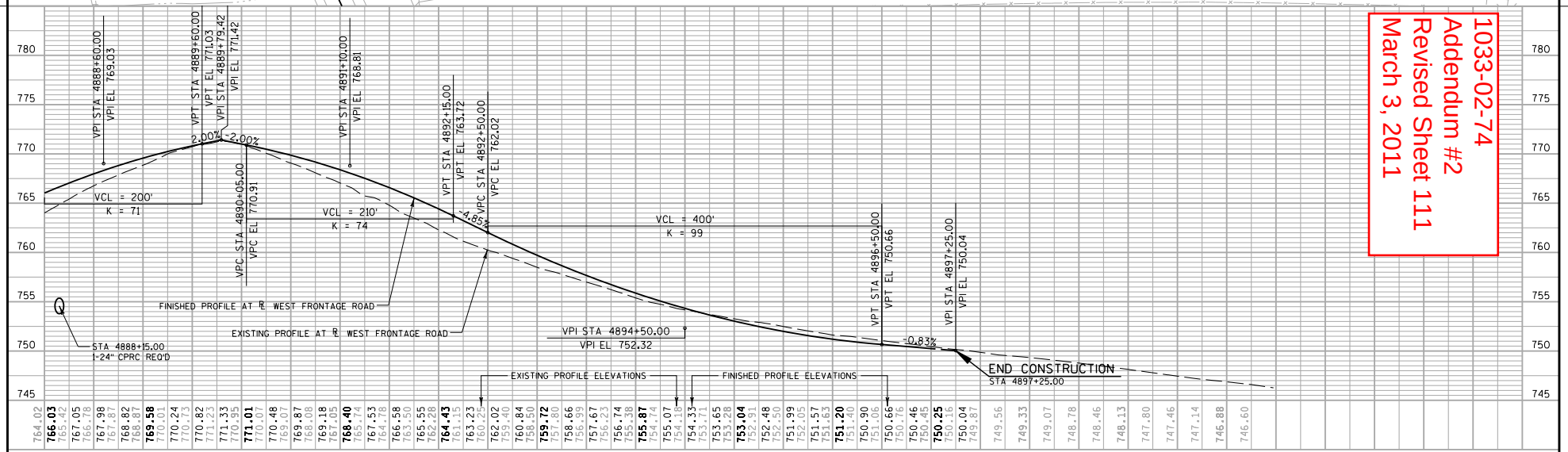
NO.	LOCATION	DESCRIPTION	ELEVATION
CP89687	4897+02.27 183.79' RT	CHISELED X	746.34

CP89687
746.34
TY:CHS X
E/S I-94 N OF CTH C

VPI STA 4888+60.00
VPI EL 769.03
VPT STA 4889+60.00
VPT EL 771.03
VPI STA 4889+79.42
VPI EL 771.42
VPI STA 4891+10.00
VPI EL 768.81
VPT STA 4892+15.00
VPT EL 763.72
VPC STA 4892+50.00
VPC EL 762.02
VPC STA 4890+05.00
VPC EL 770.91
VPT STA 4896+50.00
VPT EL 750.66
VPI STA 4897+25.00
VPI EL 750.04
VPI STA 4894+50.00
VPI EL 752.32
2.00% -2.00% -4.85% -0.83%
VCL = 200' K = 71
VCL = 210' K = 74
VCL = 400' K = 99
FINISHED PROFILE AT ℄ WEST FRONTAGE ROAD
EXISTING PROFILE AT ℄ WEST FRONTAGE ROAD
STA 4888+15.00 1-24" CPRC REO'D
END CONSTRUCTION STA 4897+25.00
EXISTING PROFILE ELEVATIONS
FINISHED PROFILE ELEVATIONS

| | | |





1033-02-74
Addendum #2
Revised Sheet 111
March 3, 2011

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	PLAN & PROFILE: WEST FRONTAGE ROAD	SHEET 111 E

FILE NAME : C:\w3mtp\FinalDesign\20\10330274_W\Roads\cds\050105_pp.dgn PLOT DATE : 2/28/2011 PLOT BY : mtp94nscREMOTE PLOT NAME : $FILE$ PLOT SCALE : 1:100

WISDOT/CADDS SHEET 40

WIMCO INC

SNIKNEJ CO

BEGIN CONSTRUCTION
STA 1844+10.00

END CONSTRUCTION
STA 1847+08.93

R/L GRANDVIEW PARKWAY

R/W

SLOPE INTERCEPT

STA 2851+40
1-18" CPRC REQUIRED
REMOVE 18" CPCM

GRANDVIEW PARKWAY

WEST FRONTAGE ROAD

1846 2848 2850 2852 2854

2846

TLE

CAUTION

BENDERSON-
BENDERSON-
BALDAUF

SIERRA PROPERTIES LLC

REICO INVESTMENTS INC

WILLKOMM
DEVELOPMENT
LLP

WILLKOMM
DEVELOPMENT
LLP

5

5

790 785 780 775 770 765 760 755

BEGIN CONSTRUCTION
STA 1844+10.00

VPI STA 1844+10.00
VPI EL 770.45

EXISTING PROFILE AT R GRANDVIEW PARKWAY

VPI STA 1847+08.93
VPI EL 773.14

END CONSTRUCTION
STA 1847+08.93

0.90%

FINISHED PROFILE AT LEFT DITCH
GRANDVIEW PARKWAY

EXISTING PROFILE ELEVATIONS

FINISHED PROFILE ELEVATIONS

773.54	773.56	773.77	773.99	774.23	774.49	774.76	775.05	775.35	775.65	775.95	776.24	776.54
773.72	773.91	774.18	774.39	774.64	775.11	775.94	775.62	775.78	775.97	776.42	

1846

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	PLAN & PROFILE: GRANDVIEW PARKWAY	See new sheet #112	SHEET 112	E

STA 2850+32, LT
Remove Existing CPM
~~Construct FE~~
~~1-18" CPCS~~

WIMCO INC

SNIKNEJ CO

BEGIN CONSTRUCTION
STA 1844+10.00

END CONSTRUCTION
STA 1847+08.93

R/L GRANDVIEW PARKWAY

R/W

SLOPE INTERCEPT

STA 2851+40
2-12" CPRC REQUIRED
REMOVE 18" CPCM

GRANDVIEW PARKWAY

WEST FRONTAGE ROAD

1846 2848 2850 2852 2854

2846

TLE

CAUTION

BENDERSON-
BENDERSON-
BALDAUF

SIERRA PROPERTIES LLC

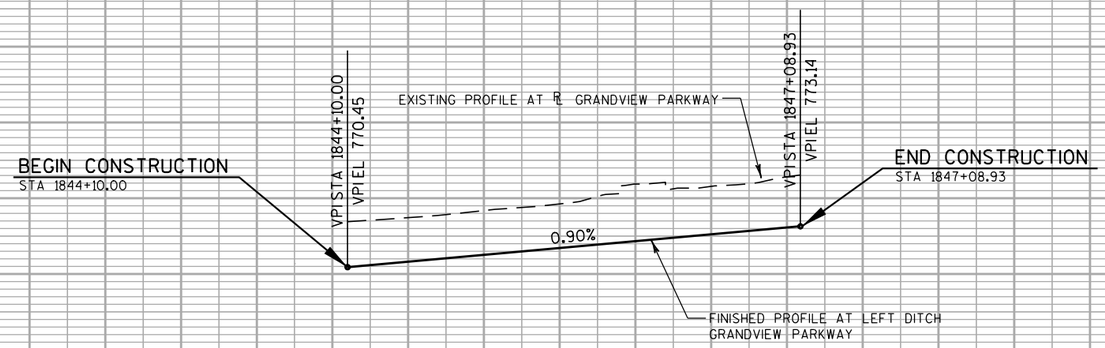
REICO INVESTMENTS INC

WILLKOMM
DEVELOPMENT
LLP

WILLKOMM
DEVELOPMENT
LLP

5

5



PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	PLAN & PROFILE: GRANDVIEW PARKWAY	SHEET 112	E

WHISPERING WOODS DEVELOPMENT

TUBMAN

TUBMAN

GUTMAN

BEGIN CONSTRUCTION
STA 57+45.00

SLOPE INTERCEPT

STA 60+00, LT
CONSTRUCT FE
REMOVE CPCM
1-18" CPCS REQ'D

STA 62+00, LT

R-51

R/L CTH C

CONSTRUCT TEMPORARY
ASPHALTIC CURB

END CONSTRUCTION
STA 65+95.00

I-94 ASSOCIATES

TLE

CTH C

PLUMBER &
STEAMFITTERS

STA 58+50, RT
CONSTRUCT CE
REMOVE CPCM
1-24" CPCS REQ'D

CAUTION

CAUTION

A O A INVESTMENTS

PACKEE

WEST FRONTAGE ROAD

IH 94 SB

IH 94 NB

EAST FRONTAGE ROAD

CONSTRUCT BUTT JOINT
STA 65+95
SEE CONSTRUCTION DETAILS

WETLAND BOUNDARY (TYP.)

I-94 ASSOCIATES

5

5

VPI STA 67+75.00
VPI EL 777.85

END CONSTRUCTION
STA 65+95.00

FINISHED PROFILE AT ℄ CTH C

EXISTING PROFILE AT ℄ CTH C

VPI STA 57+45.00
VPI EL 764.36
VPC STA 57+70.00
VPC EL 764.00

-1.45%

VCL = 500'
K = 133

2.32%

VCL = 760'
K = 116

-4.22%

BEGIN CONSTRUCTION
STA 57+45.00

59+62.82
762.60

VPI STA 60+20.00
VPI EL 760.36

VPT STA 62+70.00
VPT EL 766.15

VPC STA 63+95.00
VPC EL 769.05

66+64.52
772.17

VPT STA 71+55.00
VPT EL 761.83

VPI STA 72+14.92
VPI EL 759.30

EXISTING PROFILE ELEVATIONS

FINISHED PROFILE ELEVATIONS

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	PLAN & PROFILE: CTH C	See new sheet #113	SHEET 113	E

FILE NAME : S:\FinalDesign\20\10330274_W\Roads\cds\050107_pp.dgn PLOT DATE : 07-DEC-2010 18:19 PLOT BY : MSCD1S PLOT NAME : 050107_pp PLOT SCALE : 100.0002:1

WISDOT/CADDS SHEET 40

WHISPERING WOODS DEVELOPMENT

TUBMAN

TUBMAN

GUTMAN

BEGIN CONSTRUCTION
STA 57+45.00

SLOPE INTERCEPT

STA 60+00, LT
CONSTRUCT FE
REMOVE CPCM
1-18" CPCS REQ'D

STA 62+00, LT

R-51

R/L CTH C

CONSTRUCT TEMPORARY
ASPHALTIC CURB

END CONSTRUCTION
at bridge

HMA E-10

I-94 ASSOCIATES

TLE

WETLAND BOUNDARY (TYP.)

I-94 ASSOCIATES

PLUMBER &
STEAMFITTERS

STA 58+50, RT
CONSTRUCT CE
REMOVE CPCM
1-24" CPCS REQ'D

A O A INVESTMENTS

PACKEE

CAUTION

CAUTION

WEST FRONTAGE ROAD

IH 94 SB

IH 94 NB

EAST FRONTAGE ROAD

CTH C

R/W

58 60 62 64 66 68 70 72

4892 892 890 888

5 5

VPI STA 67+75.00
VPI EL 777.85

END CONSTRUCTION
at bridge

FINISHED PROFILE AT ℄ CTH C

EXISTING PROFILE AT ℄ CTH C

VPI STA 57+45.00
VPI EL 764.36
VPC STA 57+70.00
VPC EL 764.00

1.45%

VCL = 500'
K = 133

2.32%

VCL = 760'
K = 116

4.22%

BEGIN CONSTRUCTION
STA 57+45.00

59+62.82
762.60

VPI STA 60+20.00
VPI EL 760.36

VPT STA 62+70.00
VPT EL 766.15

VPC STA 63+95.00
VPC EL 769.05

66+64.52
772.17

VPT STA 71+55.00
VPT EL 761.83

VPI STA 72+14.92
VPI EL 759.30

EXISTING PROFILE ELEVATIONS

FINISHED PROFILE ELEVATIONS

780 775 770 765 760 755 750 745

764.66 764.28 764.29 763.89 763.92 763.42 763.59 763.14 763.31 762.95 763.08 762.80 762.89 762.72 762.74 762.65 762.65 762.63 762.60 762.59 762.60 762.69 762.65 762.79 762.74 762.88 762.88 763.07 763.07 763.38 766.85 767.31 767.43 767.88 768.00 768.44 768.58 768.95 769.16 769.59 769.70 770.07 770.19 770.57 770.62 770.95 771.00 771.24 771.33 771.49 771.60 771.62 771.82 771.74 771.99 771.97 772.10 754.57 772.16 749.57 772.16 749.91 772.11 749.24 772.01 749.34 771.85 749.86 771.64 748.87 771.38 756.06 771.06 770.72 770.69 770.32 770.26 769.80 769.78 769.22 769.25 768.60 768.66 767.86 768.02 767.09 767.33 766.41 766.58 765.75 765.78 765.03 764.92 764.12 764.01 763.09 763.05 762.06 762.04 761.00 760.98 759.93 759.93 758.84

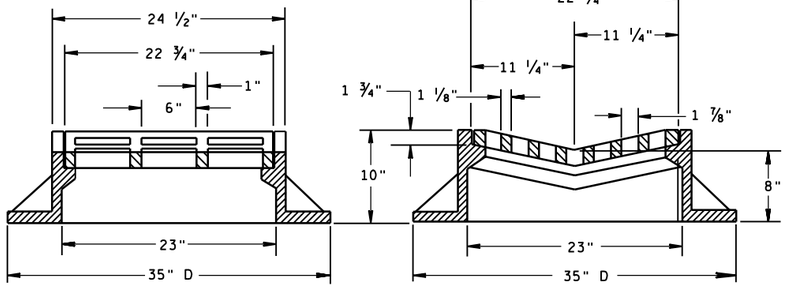
58 60 62 64 66 68 70 72

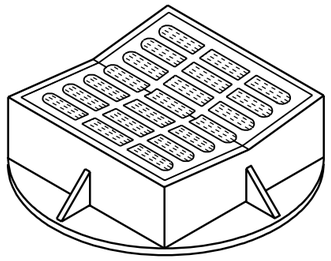
PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	PLAN & PROFILE: CTH C	SHEET 113	E

FILE NAME : S:\FinalDesign\20\10330274_W\Roads\cds\050107_pp.dgn PLOT DATE : 07-DEC-2010 18:19 PLOT BY : MSCD1S PLOT NAME : 050107_pp PLOT SCALE : 100.0002:1

Standard Detail Drawing List

08A5-16B	INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM
08A5-17C	INLET COVERS TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S
08A5-17D	INLET COVER, TYPE Z MANHOLE COVERS, TYPE K, J, J-S, J-H, J-H-S, L & M
08B6-4	MANHOLES TYPE 1
08B7-4	MANHOLES TYPE 2 & 3
08C1-5	INLETS TYPE 1, 2, 3 & 4
08C5-2	INLETS TYPE 8, 9, 10, AND 11
08D1-17	CONCRETE CURB, CONCRETE CURB AND GUTTER AND TIES
08D4-5	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08E8-3	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E9-6	SILT FENCE
08E10-2	INLET PROTECTION TYPE A, B, C AND D
08F1-11	APRON ENDWALLS FOR CULVERT PIPE
08F2-1	APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE
08F3-3	DETAILS FOR PIPE CATTLE PASS, CONCRETE ENDWALLS AND STEPS
08F4-6	JOINT TIES FOR CONCRETE PIPE
08F8-1	SLOPED STEEL ENDWALLS FOR CULVERT PIPE AND PIPE ARCH CROSS DRAINS
11B1-5	CONCRETE CORRUGATED MEDIAN
13C1-14	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
13C11-10A	RURAL DOWELED CONCRETE PAVEMENT
13C11-10B	RURAL DOWELED CONCRETE PAVEMENT
13C13-7	URBAN DOWELED CONCRETE PAVEMENT
14B15-6A	STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION & ELEMENTS
14B15-6B	STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION & ELEMENTS
14B18-6A	STEEL PLATE BEAM GUARD, CLASS "A" (AT BRIDGES, OBSTACLES AND SIDEROADS/DRIVEWAYS)
14B20-9A	STEEL THRIE BEAM STRUCTURE APPROACH
14B24-7A	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
14B24-7B	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
14B24-7C	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
15A3-1	MARKER POSTS, FLEXIBLE, FOR CULVERT END
15B1-8A	FENCE WOVEN WIRE
15B1-8B	FENCE WOVEN WIRE
15C3-1	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C7-11D	PAVEMENT MARKING ARROWS
15C8-13A	PAVEMENT MARKING (MAINLINE)
15C8-13B	PAVEMENT MARKING (INTERSECTIONS)
15C8-13E	PAVEMENT MARKING (LEFT TURN LANE)
15C8-13F	PAVEMENT MARKING (ISLANDS, STOP LINE & CROSS WALK)
15C18-3	MEDIAN ISLAND MARKING
15C21-3	SIGNING AND MARKING FOR TWO LANE TO FOUR LANE DIVIDED TRANSITIONS
15D11-3	TRAFFIC CONTROL, SINGLE LANE CROSSOVER
16A1-6	LANDMARK REFERENCE MONUMENTS AND COVERS

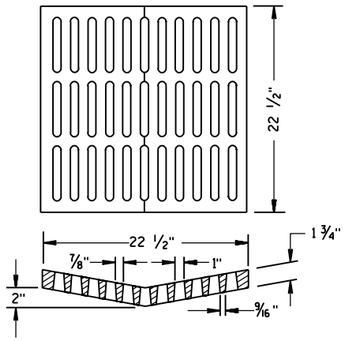




TYPE "B"

(APPROXIMATE WEIGHT 395 LBS.)

FRAME..... 285 LBS.
GRATE..... 110 LBS.

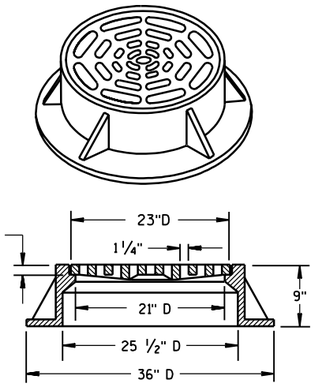


ALTERNATIVE GRATE FOR TYPE "B" COVER

(APPROXIMATE GRATE WEIGHT 125 LBS.)
GRATE.....125 LBS.

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS POSSIBLE.

NOTED AS TYPE B-A ON THE DRAINAGE TABLE



TYPE "C"

(APPROXIMATE WEIGHT 340 LBS.)

FRAME..... 235 LBS.
GRATE..... 105 LBS.

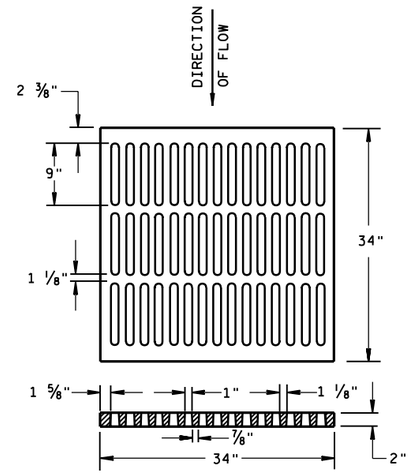
GENERAL NOTES

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.

THE ACTUAL WEIGHT OF COVERS MAY VARY WITHIN 5 PERCENT, PLUS OR MINUS, OF THE APPROXIMATE WEIGHT.

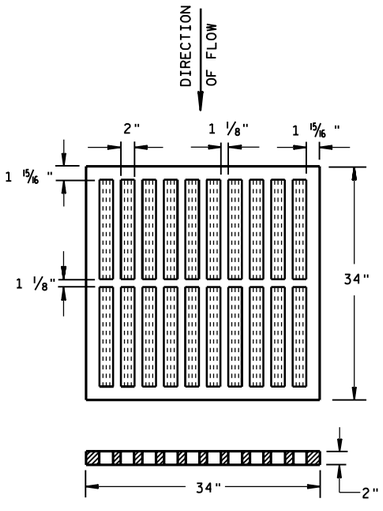


ALTERNATIVE TYPE "MS"

(APPROXIMATE GRATE WEIGHT 365 LBS.)
GRATE.....365 LBS.

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS PERMITTED

NOTED AS TYPE MS-A ON THE DRAINAGE TABLE

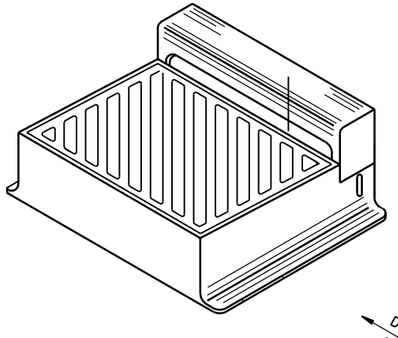


TYPE "MS"

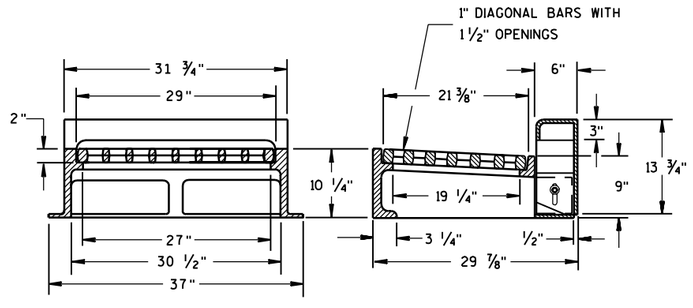
(APPROXIMATE GRATE WEIGHT 270 LBS.)
GRATE.....270 LBS.

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"

(APPROXIMATE WEIGHT 670 LBS.)

FRAME..... 360 LBS.
GRATE..... 160 LBS.
CURB BOX..... 150 LBS.

INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

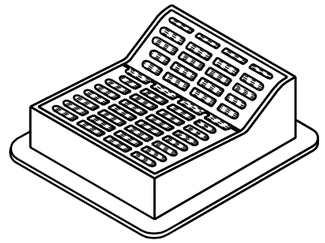
APPROVED
10/4/99
DATE
FHWA

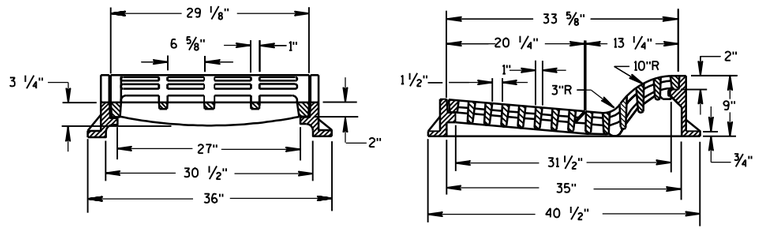
CHIEF ROADWAY DEVELOPMENT ENGINEER

S.D.D. 8 A 5-16b

6

S.D.D. 8 A 5-16b

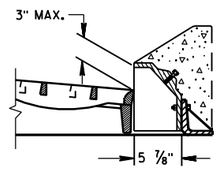




TYPE "F"

(APPROXIMATE WEIGHT 645 LBS.)
FRAME.....300 LBS.
GRATE.....165 LBS.
GRATE.....180 LBS.

USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.



ALTERNATIVE CURB BOX FOR TYPE "HM" COVER

(APPROXIMATE WEIGHT 79 LBS.)
CURB BOX.....79 LBS.

USE WITH TYPES G & J CONCRETE CURB & GUTTER, 30 INCH
NOTED AS TYPE HM-GJ ON DRAINAGE TABLE

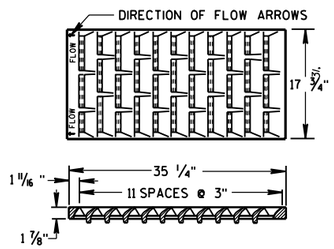
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM-GJ" COVER
NOTED AS TYPE HM-GJ-S ON DRAINAGE TABLE

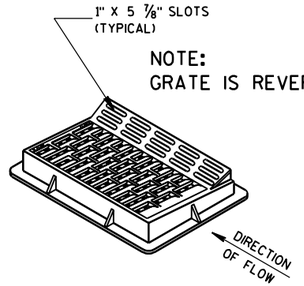
GENERAL NOTES

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.

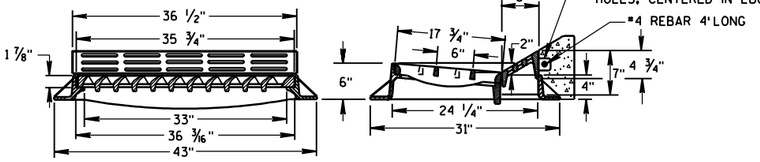
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

THE ACTUAL WEIGHT OF COVERS MAY VARY WITHIN 5 PERCENT, PLUS OR MINUS, OF THE APPROXIMATE WEIGHT.





NOTE:
GRATE IS REVERSIBLE.

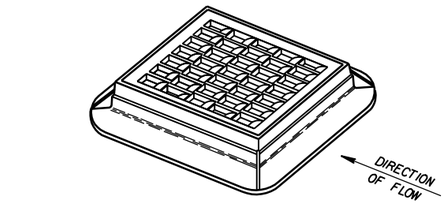


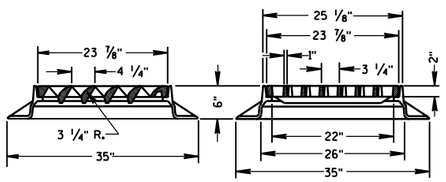
TYPE "HM"

(APPROXIMATE WEIGHT 375 LBS.)
FRAME.....175 LBS.
GRATE.....138 LBS.
CURB BOX..... 62 LBS.

USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.

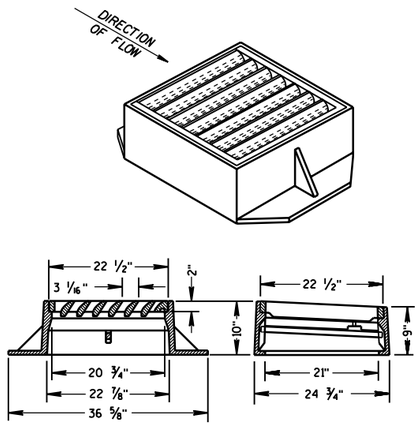
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM" COVER
NOTED AS TYPE HM-S ON DRAINAGE TABLE





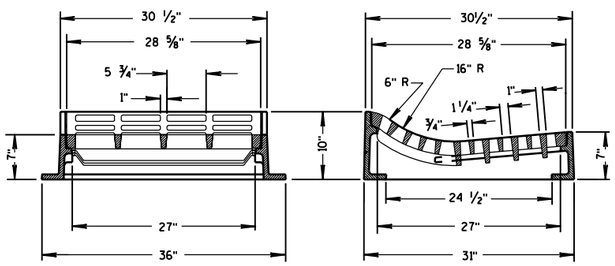
TYPE "S"

(APPROXIMATE WEIGHT 334 LBS.)
FRAME.....165 LBS.
GRATE.....169 LBS.



TYPE "V"

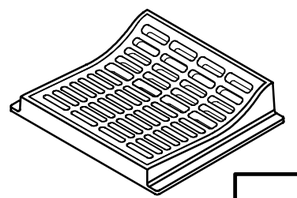
(APPROXIMATE WEIGHT 405 LBS.)
FRAME.....270 LBS.
GRATE.....130 LBS.
SAFETY BAR..... 5 LBS.



TYPE "T"

(APPROXIMATE WEIGHT 530 LBS.)
FRAME.....270 LBS.
GRATE.....260 LBS.

USE WITH TYPES R & T CONCRETE CURB & GUTTER, 30 INCH.



INLET COVERS
TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

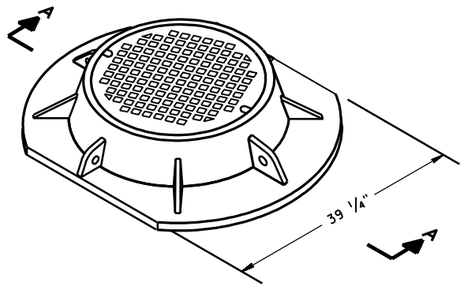
APPROVED
12/17/07
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

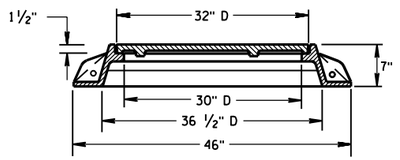
6

S.D.D. 8 A 5-17c

6

S.D.D. 8 A 5-17c



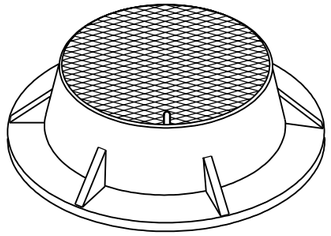


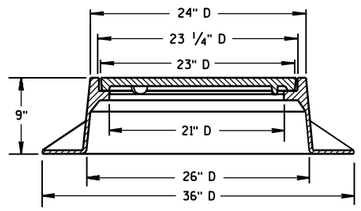
SECTION A-A

TYPE "K"

(APPROXIMATE WEIGHT 415 LBS.)

FRAME.....210 LBS.
LID.....205 LBS.

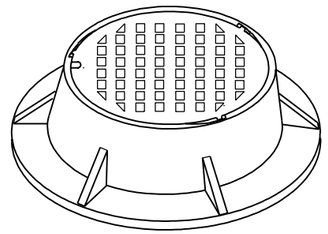


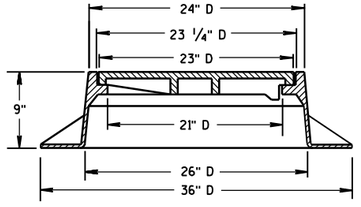


TYPE "J"

(APPROXIMATE WEIGHT 250 LBS.)

FRAME.....135 LBS.
LID.....115 LBS.





TYPE "J" SPECIAL

TYPE "B" NON-ROCKING SELF-SEAL LID

(APPROXIMATE WEIGHT 245 LBS.)

FRAME.....145 LBS.
LID.....100 LBS.

(NOTED AS TYPE J-S ON THE DRAINAGE TABLE)

GENERAL NOTES

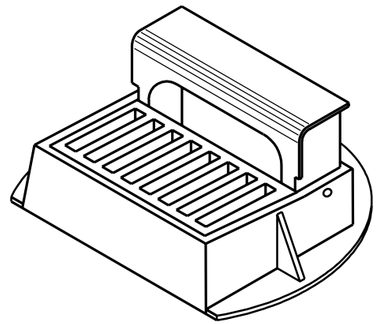
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

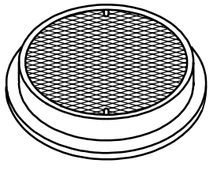
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR MANHOLE COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

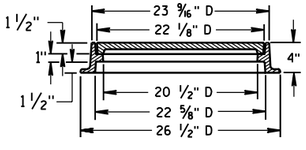
ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

THE ACTUAL WEIGHT OF COVERS MAY VARY WITHIN 5 PERCENT, PLUS OR MINUS, OF THE APPROXIMATE WEIGHT.

(1) MANUFACTURER MAY PROVIDE ADDITIONAL SEALS OR GASKETS.



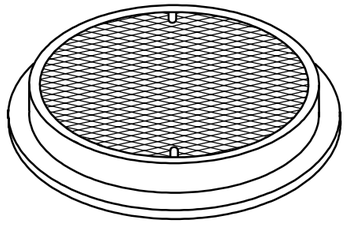


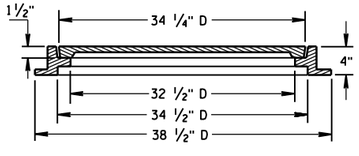


TYPE "L"

(APPROXIMATE WEIGHT 145 LBS.)

FRAME.....75"
LID.....70"

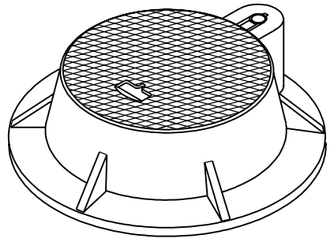


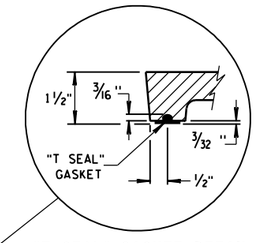


TYPE "M"

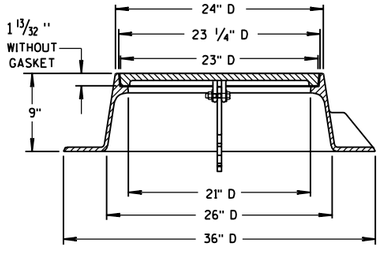
(APPROXIMATE WEIGHT 385 LBS.)

FRAME..... 125"
LID..... 260"





"T SEAL" GASKET DETAIL



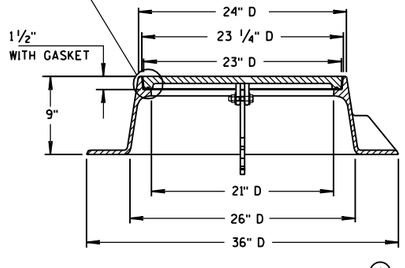
TYPE "J" HINGED

LID WITHOUT "T SEAL" GASKET

(APPROXIMATE WEIGHT 310 LBS.)

FRAME.....190 LBS.
LID.....120 LBS.

(NOTED AS TYPE J-H ON THE DRAINAGE TABLE)



TYPE "J" HINGED-SPECIAL (1)

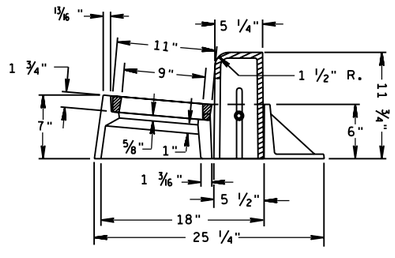
LID WITH "T SEAL" GASKET

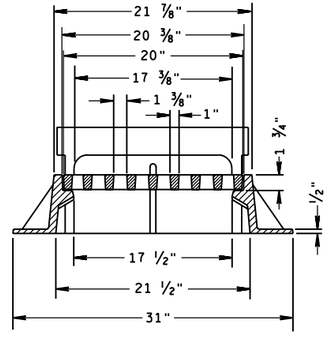
(APPROXIMATE WEIGHT 310 LBS.)

FRAME.....190 LBS.
LID.....120 LBS.

(NOTED AS TYPE J-S-H ON THE DRAINAGE TABLE)

CURB BOX ADJUSTABLE 4" TO 10"





INLET COVER TYPE "Z"

(APPROXIMATE WEIGHT 340 LBS.)

FRAME.....198 LBS.
GRATE..... 50 LBS.
CURB BOX..... 92 LBS.

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4-29-05
DATE
FHWA

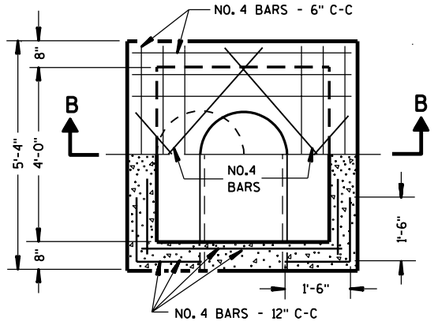
CHIEF ROADWAY DEVELOPMENT ENGINEER

6

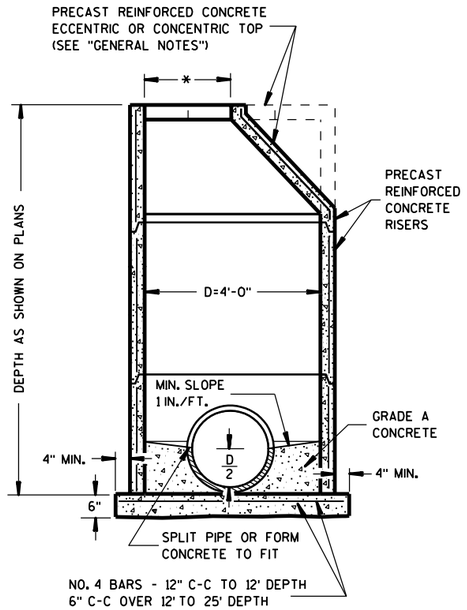
S.D.D. 8 A 5-17d

6

S.D.D. 8 A 5-17d



HALF SECTION A-A



PRECAST REINFORCED CONCRETE

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.

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 1-C", "CATCH BASINS 1-B", "INLETS 3-H", ETC. THE FIRST DIGIT DESIGNATES THE MASONRY PORTION OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

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

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

STEPS CONFORMING TO AASHTO M 199 SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH.

SOLID ALUMINUM STEPS SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 0.75 INCH. ALUMINUM SURFACES TO BE EMBEDDED IN CONCRETE SHALL BE GIVEN ONE COAT OF SUITABLE QUALITY PAINT, SUCH AS ZINC CHROMATE PRIMER CONFORMING TO FEDERAL SPECIFICATION TT-P-645 OR EQUIVALENT.

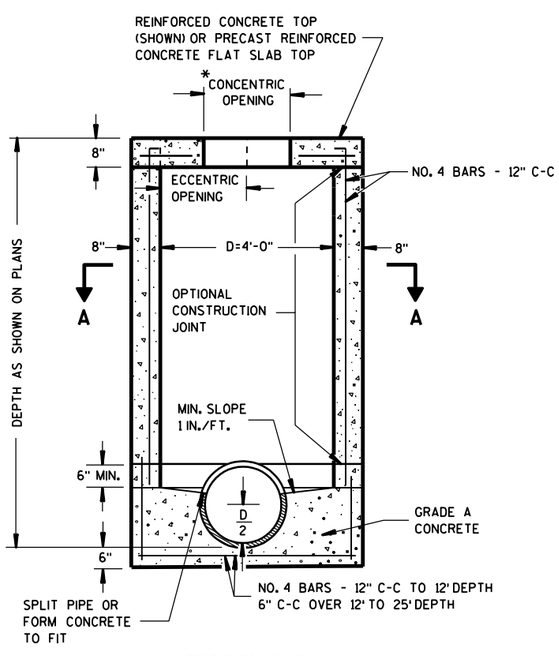
ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

PRECAST REINFORCED CONCRETE RISERS MAY BE PLACED WITH TONGUE UP OR DOWN.

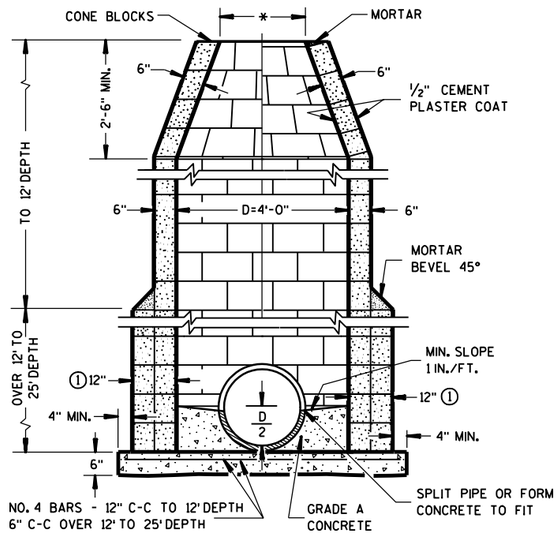
ALL PRECAST INLET UNITS AND MANHOLES SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199.

* USE 2'-0" DIAMETER OPENING WITH TYPE "C", "L" AND "J" COVERS, OR 3'-0" DIAMETER WITH TYPE "K" AND "M" COVERS.

① 2 COURSES 6" BLOCK.



SECTION B-B
REINFORCED CONCRETE



CONCRETE BLOCK

MANHOLES TYPE 1

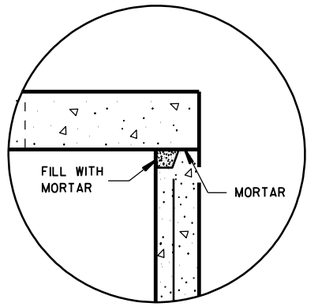
MANHOLES TYPE 1	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 9/9/05 DATE FHWA	/S/ Jerry H. Zogg ROADWAY STANDARDS DEVELOPMENT ENGINEER

6

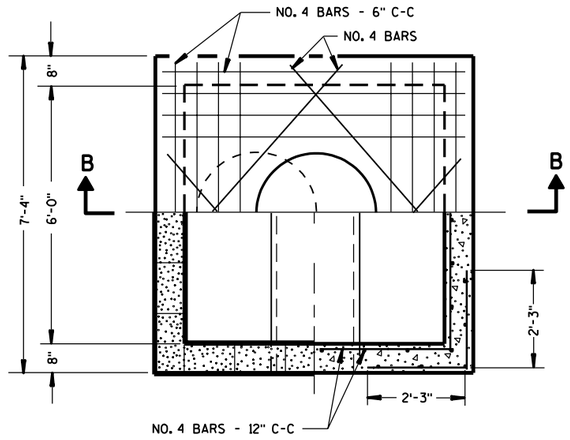
S.D.D. 8 B 6-4

6

S.D.D. 8 B 6-4



DETAIL "A"



HALF 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.

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 1-C", "CATCH BASINS 1-B", "INLETS 3-H", ETC. THE FIRST DIGIT DESIGNATES THE MASONRY PORTION OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

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

STEPS CONFORMING TO AASHTO M 199 SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH.

SOLID ALUMINUM STEPS SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 0.75 INCH. ALUMINUM SURFACES TO BE EMBEDDED IN CONCRETE SHALL BE GIVEN ONE COAT OF SUITABLE QUALITY PAINT, SUCH AS ZINC CHROMATE PRIMER CONFORMING TO FEDERAL SPECIFICATION TT-P-645 OR EQUIVALENT.

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

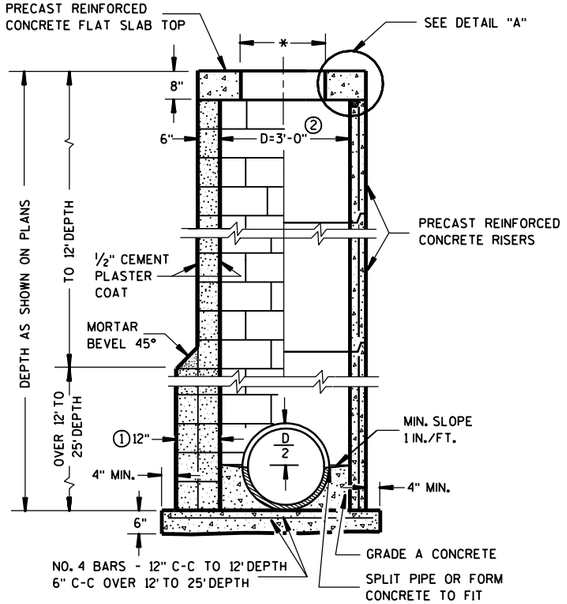
PRECAST REINFORCED CONCRETE RISERS MAY BE PLACED WITH TONGUE UP OR DOWN.

ALL PRECAST INLET UNITS AND MANHOLES SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199.

* USE 2'-0" DIAMETER OPENING WITH TYPE "C", "L" AND "J" COVERS, OR 3'-0" DIAMETER WITH TYPE "K" AND "M" COVERS.

① 2 COURSES 6" BLOCK.

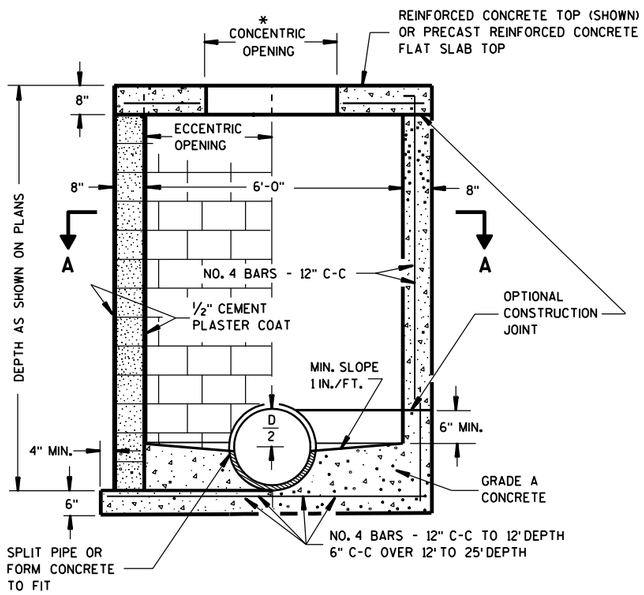
② WHEN CONNECTING PIPES ARE 24" OR LARGER THE PRECAST MANHOLES MAY BE INCREASED TO 42" DIAMETER.



CONCRETE BLOCK

② PRECAST REINFORCED CONCRETE

MANHOLES TYPE 2

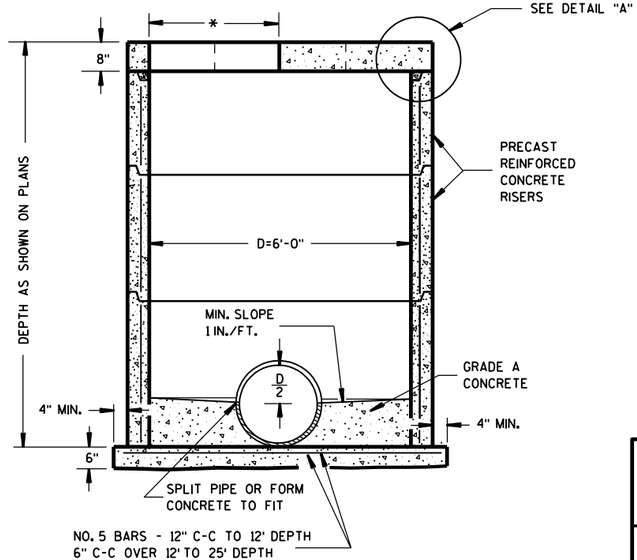


SECTION B-B

CONCRETE BLOCK

REINFORCED CONCRETE

MANHOLES TYPE 3



PRECAST REINFORCED CONCRETE

MANHOLES TYPE 2 & 3

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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9/9/05 — DATE
FHWA

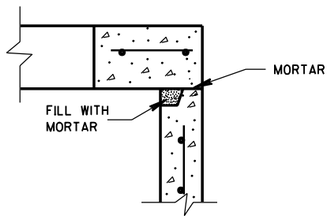
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

6

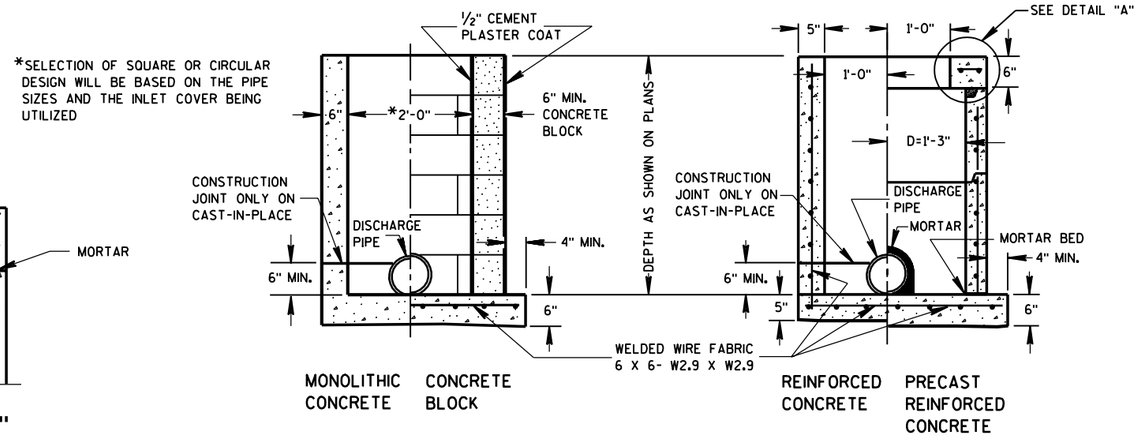
S.D.D. 8 B 7-4

6

S.D.D. 8 B 7-4



DETAIL "A"



INLETS TYPE 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.

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 AASHTO DESIGNATION M 199.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 1-C", "CATCH BASINS 1-B", "INLETS 3-H", ETC. THE FIRST DIGIT DESIGNATES THE MASONRY PORTION OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

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

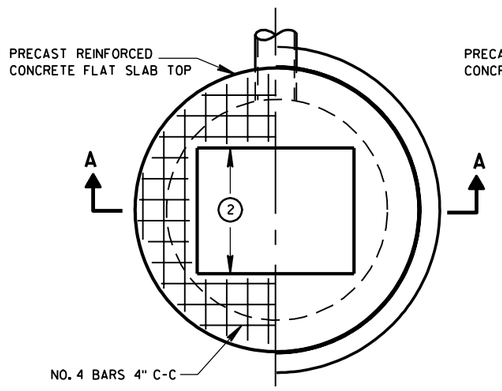
PRECAST REINFORCED CONCRETE FLAT SLAB TOPS MAY BE USED ON THE STRUCTURES. THE TOPS SHALL BE INSTALLED ON A BED OF MORTAR.

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

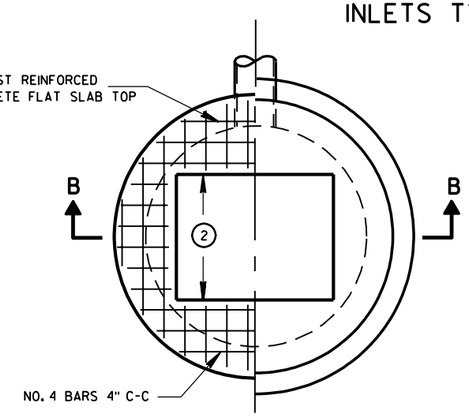
PRECAST REINFORCED CONCRETE RISERS SHALL BE PLACED WITH TONGUE DOWN.

(1) USE 2'-6" OPENING FOR TYPE 2 INLETS, 3'-0" OPENING FOR TYPE 3 INLETS, AND 2'-11" FOR TYPE 4 INLETS.

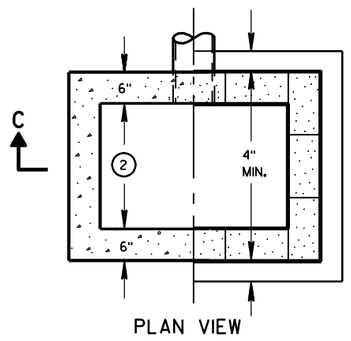
(2) USE 2'-0" OPENING FOR TYPE 1, 2 & 3 INLETS, 2'-6½" OPENING FOR TYPE 4 INLETS.



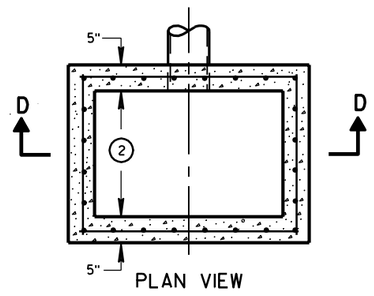
PLAN VIEW



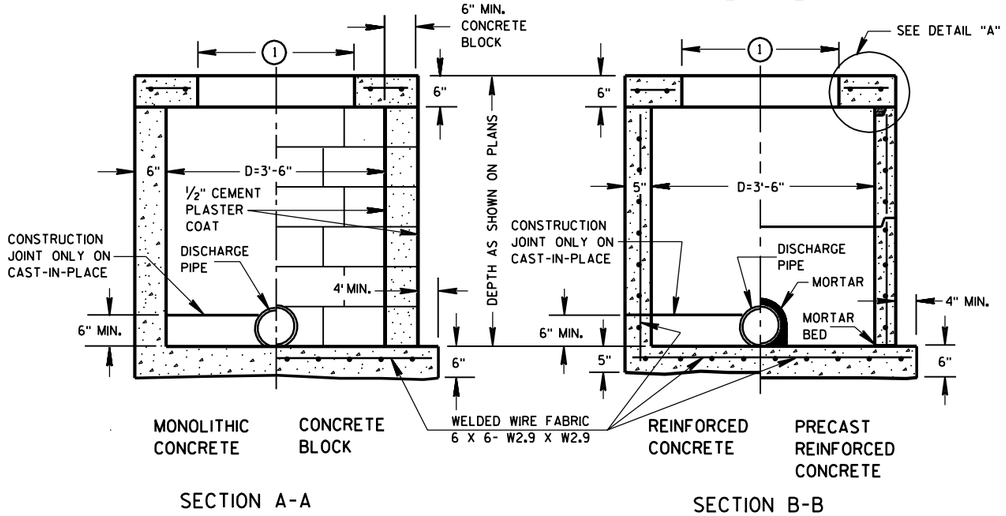
PLAN VIEW



PLAN VIEW

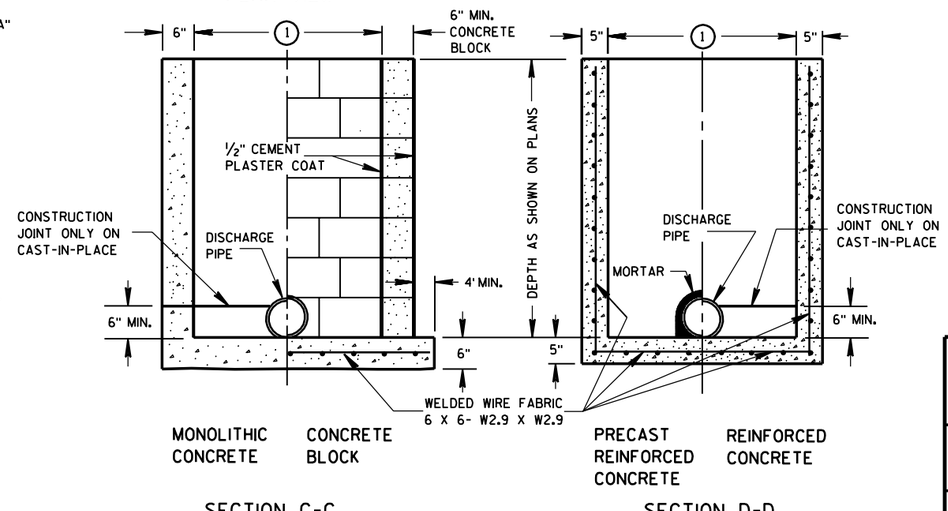


PLAN VIEW



SECTION A-A

SECTION B-B



SECTION C-C

SECTION D-D

INLETS TYPE 2, 3 & 4

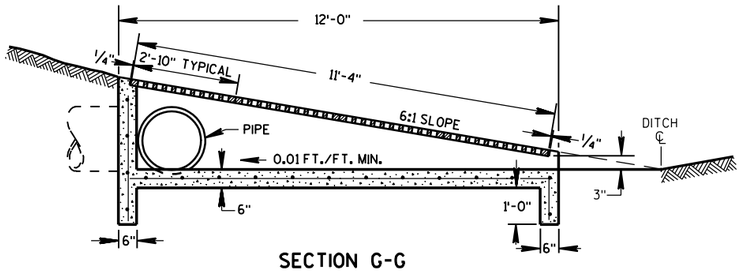
INLETS TYPE 1, 2, 3 & 4

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

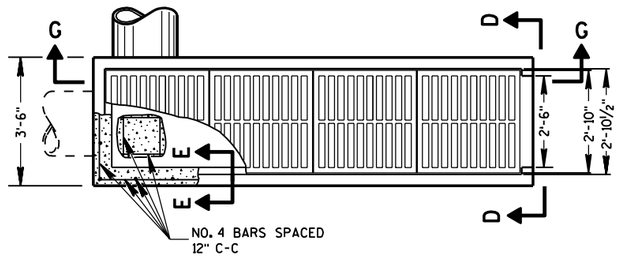
APPROVED
8/26/94
DATE
FHWA

CHIEF ROADWAY DEVELOPMENT ENGINEER

S.D.D. 8 C 1-5

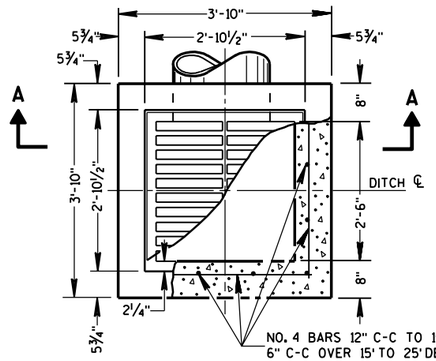


SECTION G-G

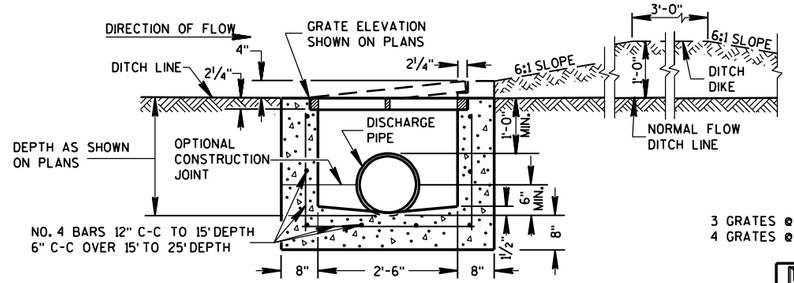


PLAN VIEW

REINFORCED CONCRETE INLET TYPE 11

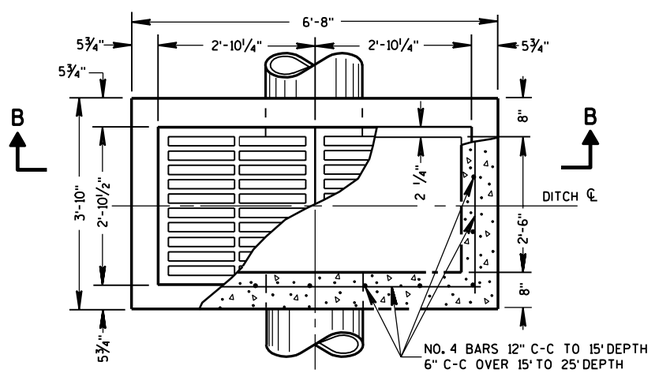


PLAN VIEW

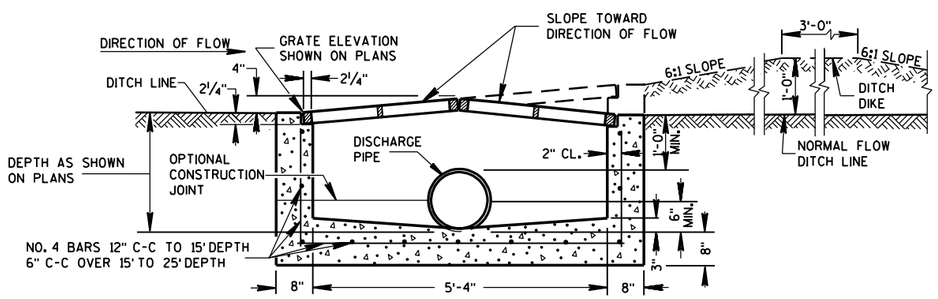


SECTION A-A

REINFORCED CONCRETE INLET TYPE 8



PLAN VIEW



SECTION B-B

REINFORCED CONCRETE INLET TYPE 9

GENERAL NOTES

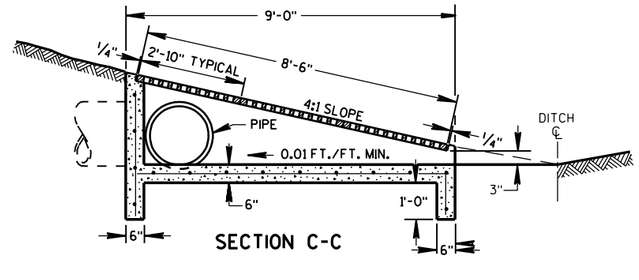
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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.

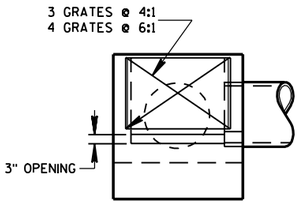
PRECAST REINFORCED CONCRETE INLET UNITS, IF USED, SHALL CONFORM TO THE REQUIREMENTS OF THE CATCH BASINS, MANHOLES AND INLETS SECTION OF THE STANDARD SPECIFICATIONS. UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A CORRECTED LIST OF SIZES IS FURNISHED BY THE ENGINEER.

ALL INLETS ARE DESIGNATED ON THE PLANS AS "INLETS, 8-MS", ETC. THIS DESIGNATION IS INTERPRETED TO MEAN THAT THE NUMBER, OR FIRST DIGIT DESIGNATES THE MASONRY PORTION OF THE STRUCTURE AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER OR IRON CASTING TO BE USED THEREWITH TO COMPRISE THE COMPLETE UNIT.

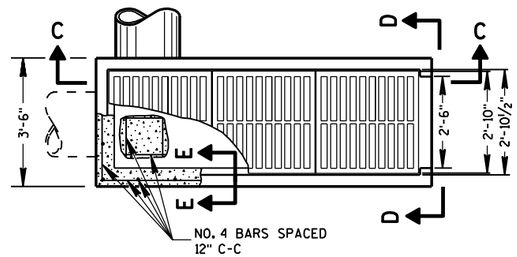
ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.



SECTION C-C

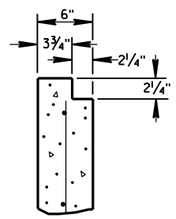


SECTION D-D



PLAN VIEW

REINFORCED CONCRETE INLET TYPE 10



SECTION E-E

INLETS TYPE 8, 9, 10 AND 11

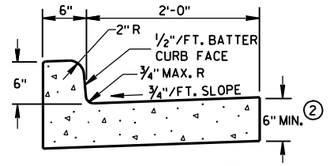
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
8/10/94
DATE

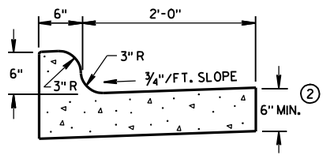
CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

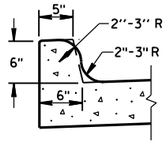
S.D.D. 8 C 5-2



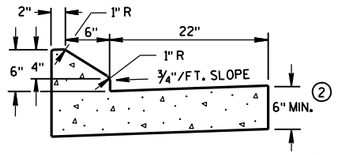
TYPES A & D ①



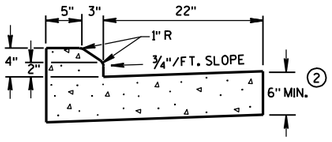
TYPES K & L ①



OPTIONAL CURB SHAPE FOR TYPES K & L ①

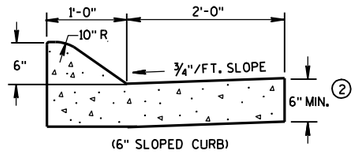


6" SLOPED CURB TYPES G & J ①

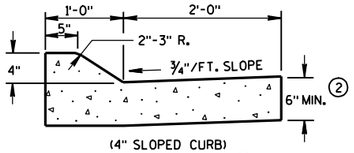


4" SLOPED CURB TYPES G & J ①

CONCRETE CURB & GUTTER 30"

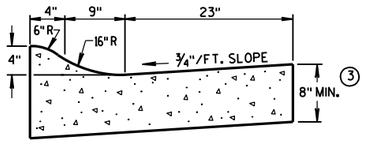


(6" SLOPED CURB)



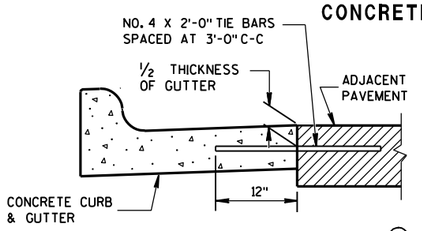
(4" SLOPED CURB)

TYPES A & D ①

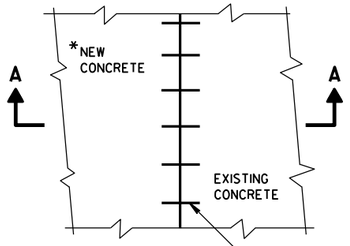


4" SLOPED CURB TYPES R & T ①④

CONCRETE CURB & GUTTER 36"

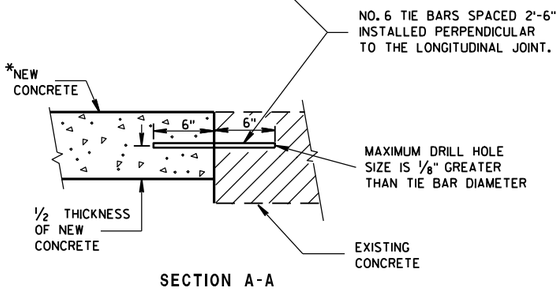


TYPICAL TIE BAR LOCATION ①



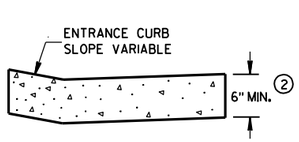
*NEW CURB & GUTTER, SURFACE DRAINS, CONCRETE PAVEMENT OR OTHER NEW CONCRETE.

PLAN VIEW

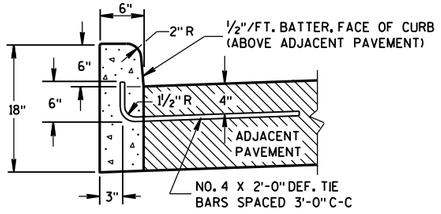


SECTION A-A

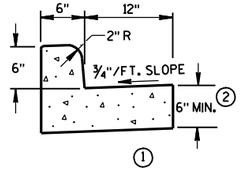
TIE BARS DRILLED INTO EXISTING PAVEMENT



DRIVEWAY ENTRANCE CURB
(WHEN DIRECTED BY THE ENGINEER)

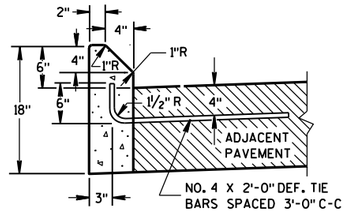


① TYPES A & D



① TYPES A & D

CONCRETE CURB & GUTTER 18"



① TYPES G & J

CONCRETE CURB

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.

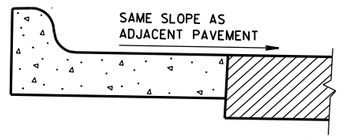
① TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K AND R.

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.

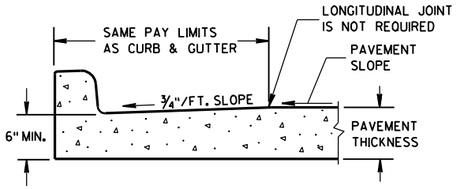
③ THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.

④ THE FACE OF CURB IS 6" FROM THE BACK OF CURB.

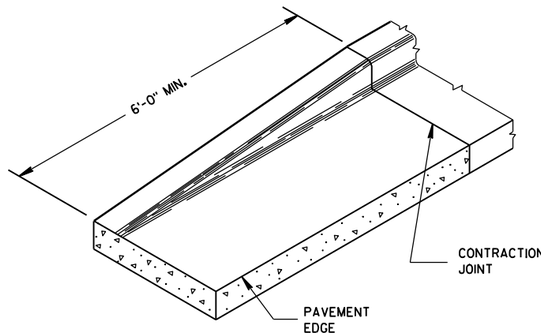
⑤ WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.



REVERSE SLOPE GUTTER ⑤
(TYPICAL FOR ALL CURB & GUTTER TYPES)



PARTIAL SECTION OF PAVEMENT WITH INTEGRAL CURB & GUTTER



END SECTION CURB & GUTTER

CONCRETE CURB, CONCRETE CURB & GUTTER AND TIES

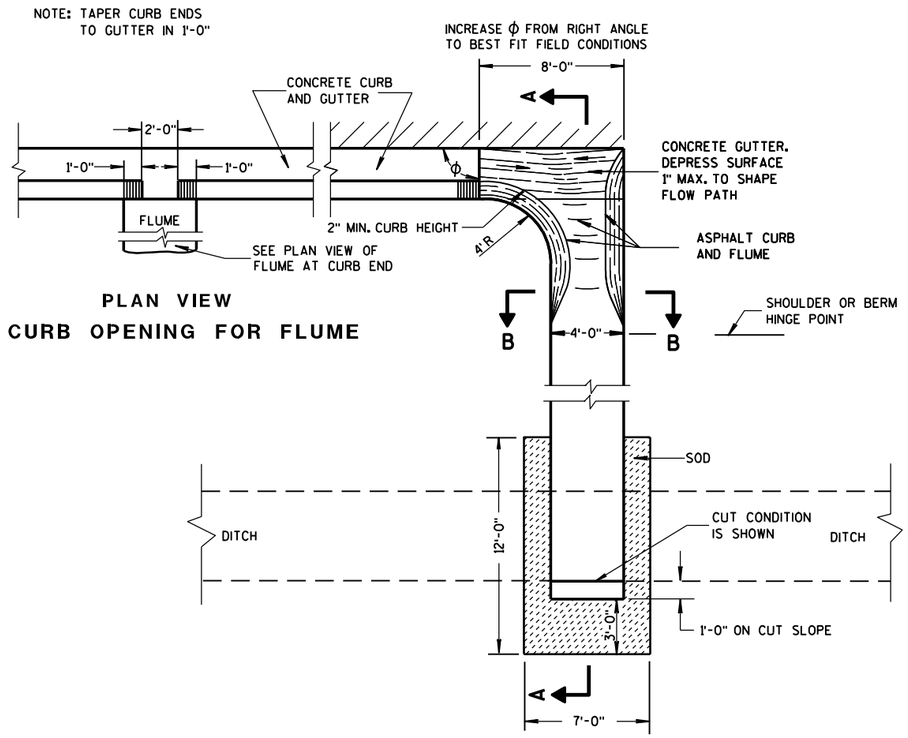
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
9/4/08 DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

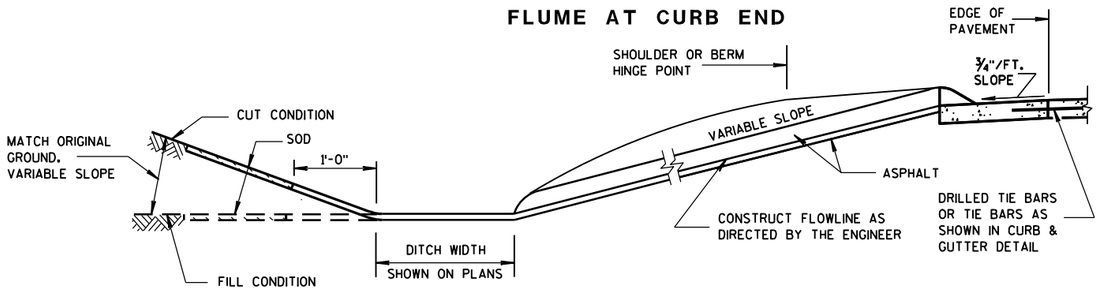
S.D.D. 8 D 1-17

ASPHALTIC FLUME

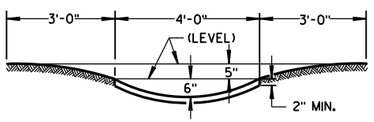


PLAN VIEW
CURB OPENING FOR FLUME

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.

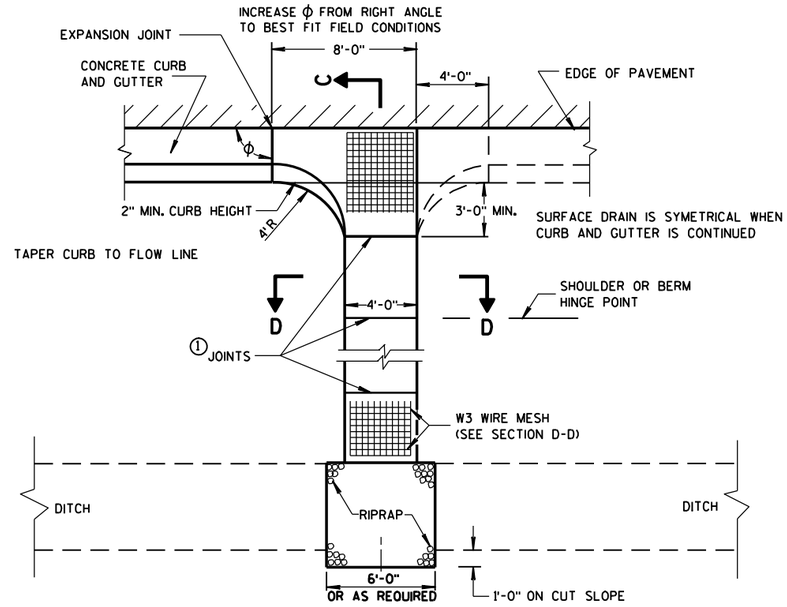
WELDED STEEL WIRE FABRIC SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

① JOINTS SHALL BE ⅛ TO ¼ INCH WIDE BY 1½ INCHES DEEP AND SPACED AT UNIFORM INTERVALS OF APPROXIMATELY 4 FEET.

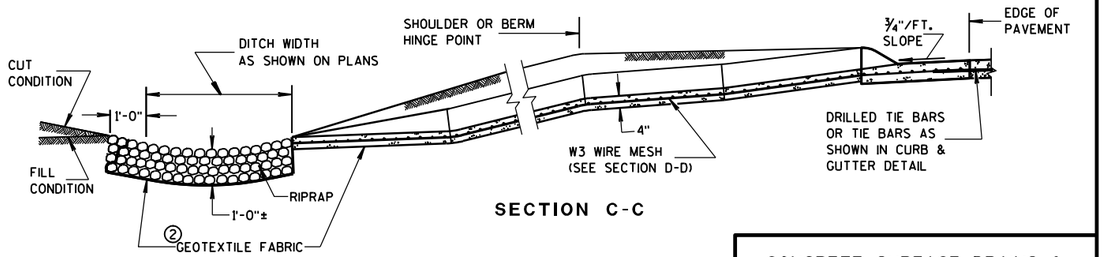
② GEOTEXTILE FABRIC TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.

③ CONCRETE SURFACE DRAIN WITHOUT CURB AND GUTTER MAY BE USED ON BACKSLOPES WHEN SPECIFIED

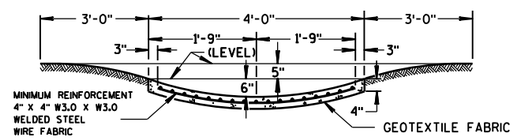
③ CONCRETE SURFACE DRAIN



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 DEVELOPMENT ENGINEER

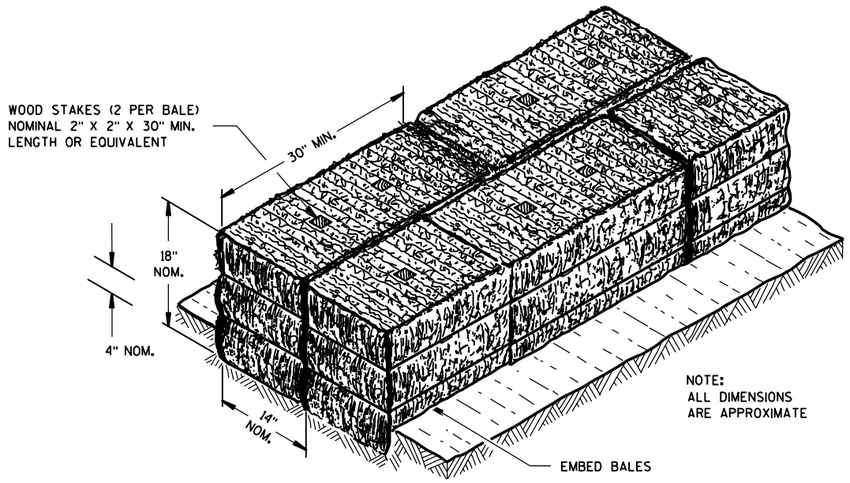
FHWA

6

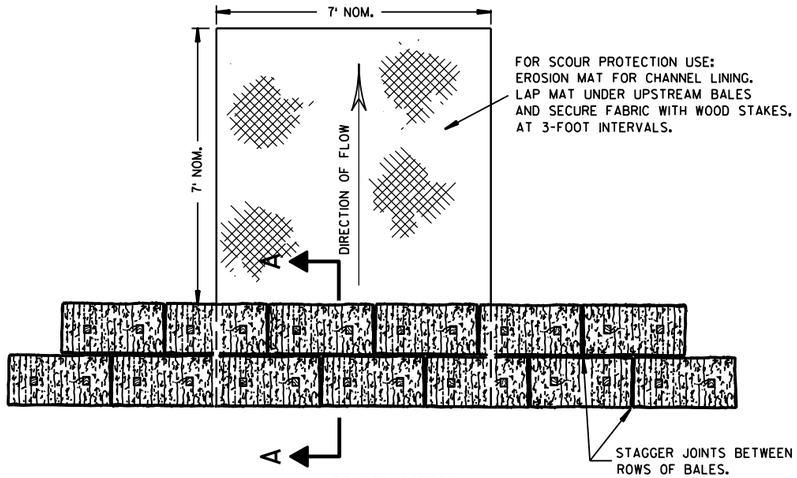
S.D.D. 8 D 4-5

6

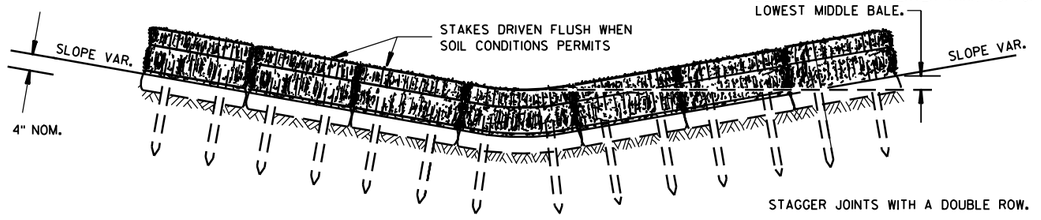
S.D.D. 8 D 4-5



SECTION A-A



PLAN VIEW



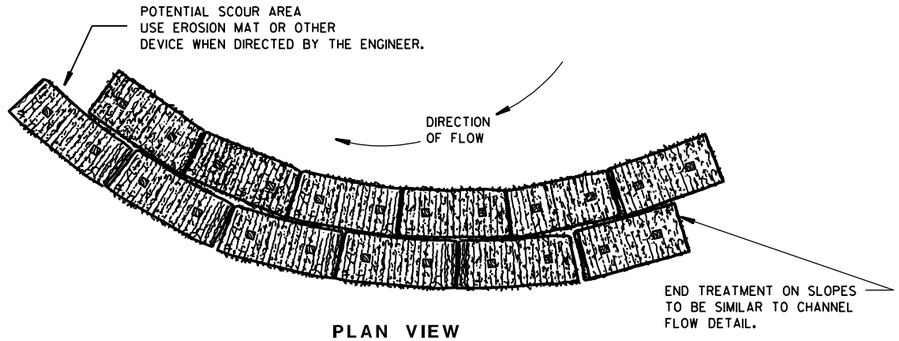
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES (1)

GENERAL NOTES

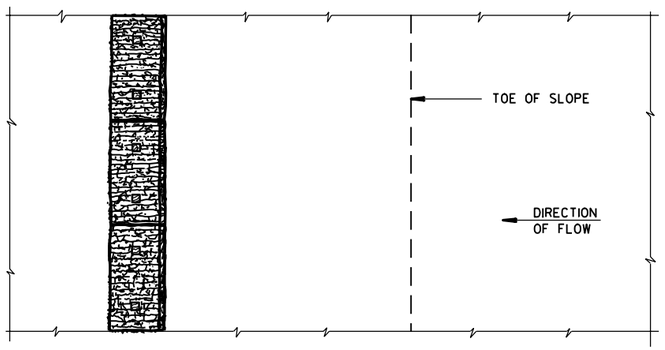
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(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.

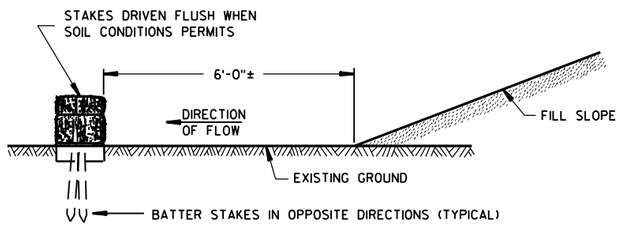


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

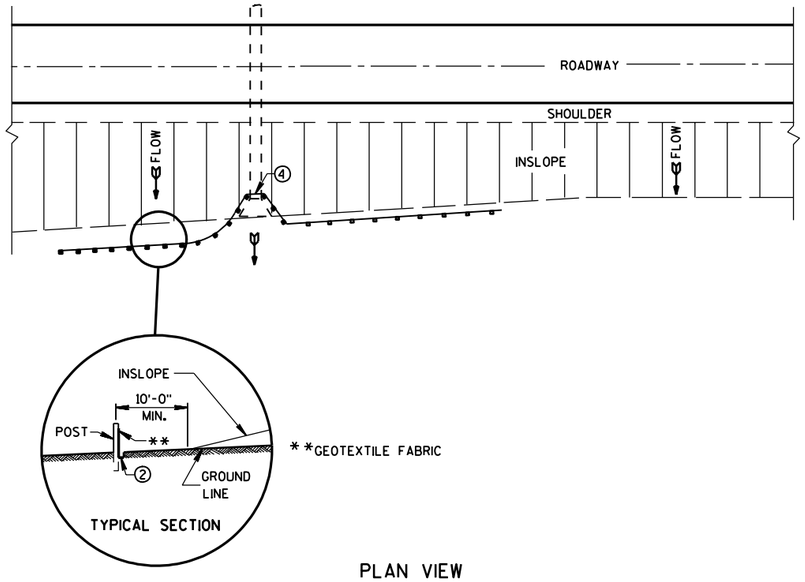
TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/04/02
DATE
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

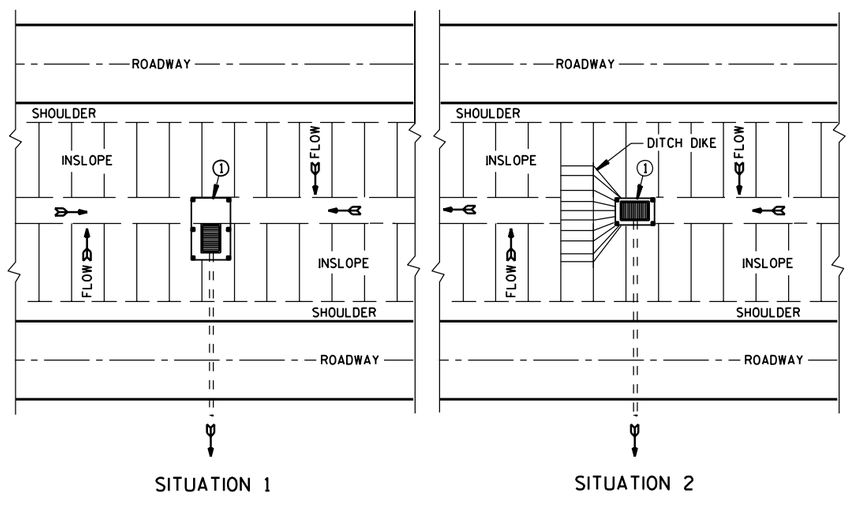
6

S.D.D. 8 E 8-3



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



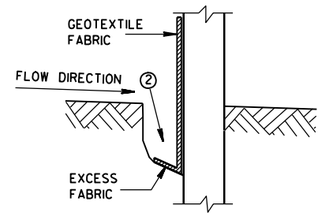
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

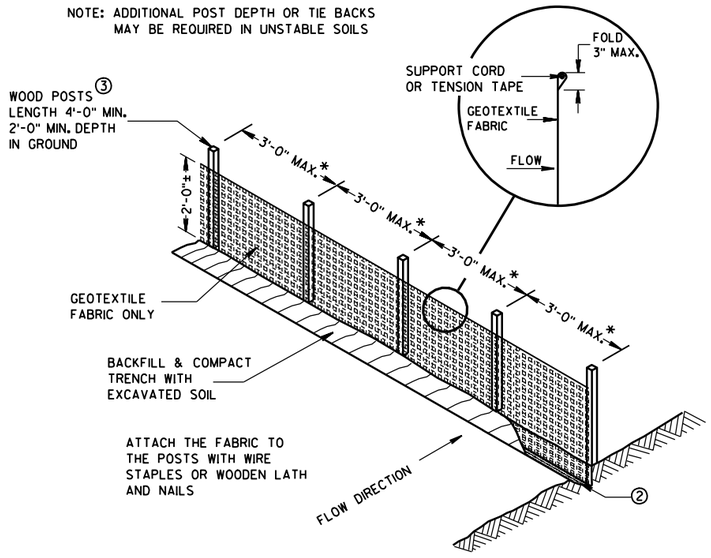
GENERAL NOTES

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

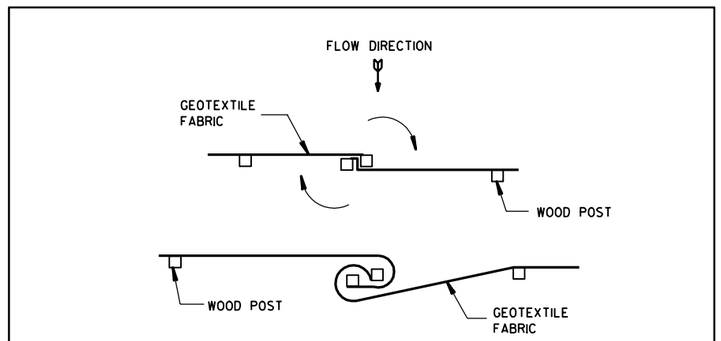
1. HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
2. FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL 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.



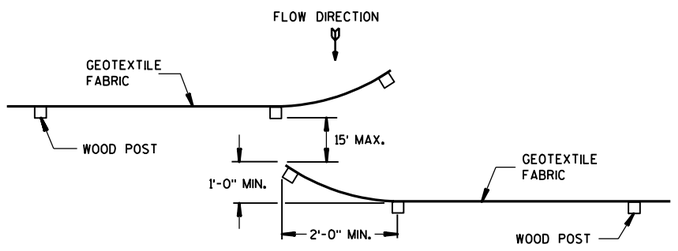
TRENCH DETAIL



SILT FENCE

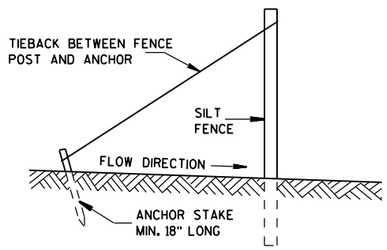


TWIST METHOD



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

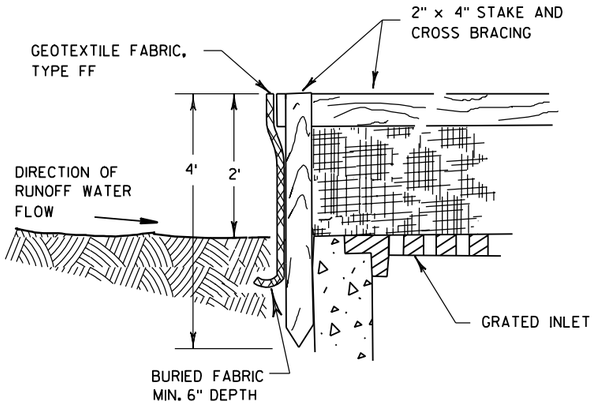
APPROVED
4-29-05
DATE
FHWA

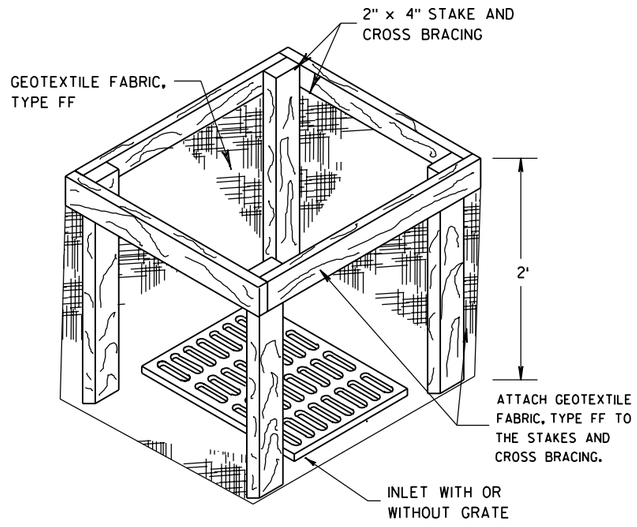
CHIEF ROADWAY DEVELOPMENT ENGINEER

6

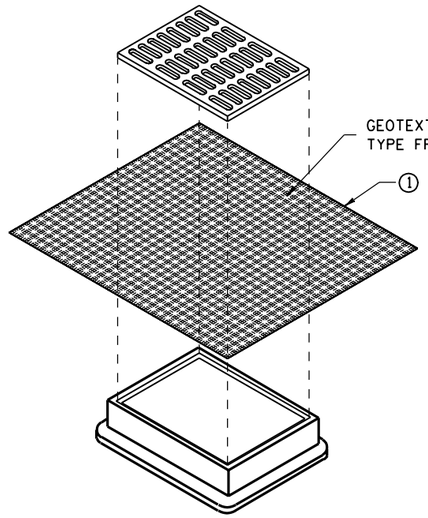
S.D.D. 8 E 9-6

S.D.D. 8 E 9-6



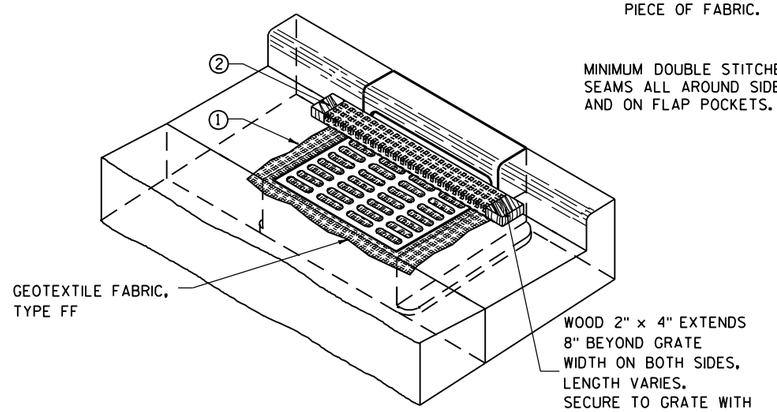


INLET PROTECTION, TYPE A

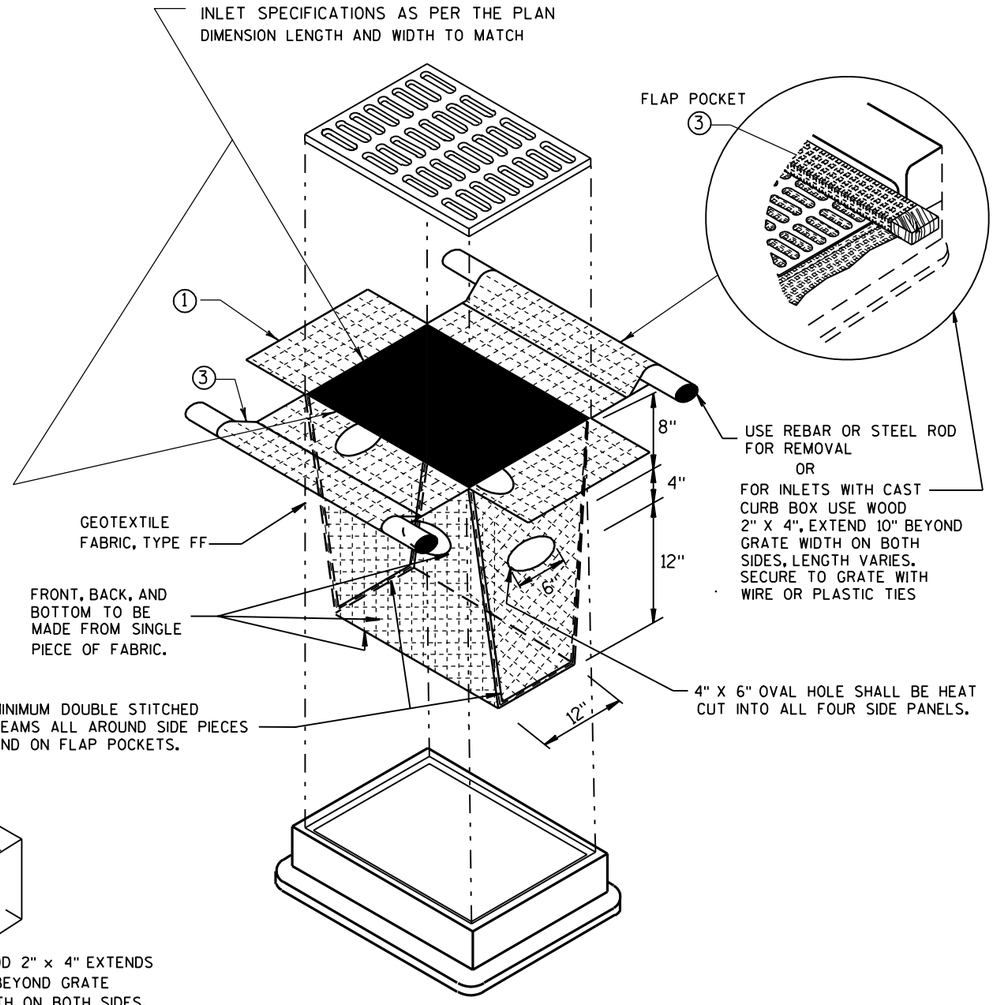


INLET PROTECTION, TYPE B (WITHOUT CURB BOX)

(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
FHWA

CHIEF ROADWAY DEVELOPMENT ENGINEER

6

S.D.D. 8 E 10-2

6

S.D.D. 8 E 10-2

METAL APRON ENDWALLS

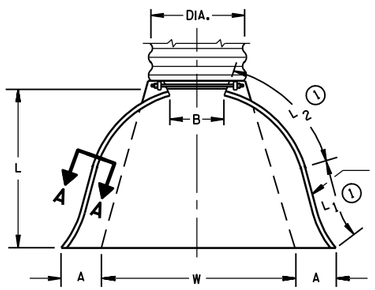
PIPE DIA. (IN.)	MIN. THICK. (inches) STEEL	MIN. THICK. (inches) ALUM.	DIMENSIONS (inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	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

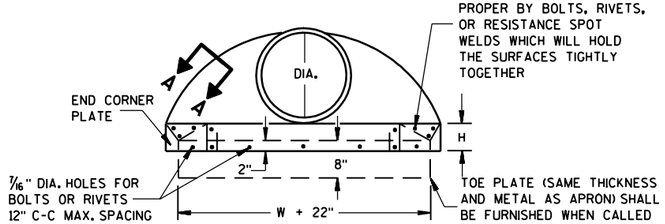
REINFORCED CONCRETE APRON ENDWALLS

PIPE DIA. (IN.)	DIMENSIONS (inches) T	A	B	C	D	E	G	APPROX. SLOPE
12	2	4	24	48 7/8	72 7/8	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

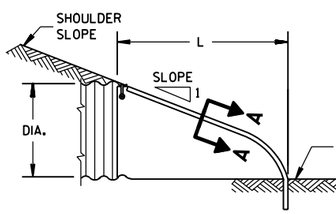
*MINIMUM
**MAXIMUM



PLAN VIEW

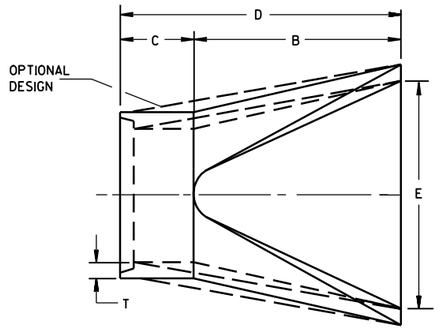


END VIEW

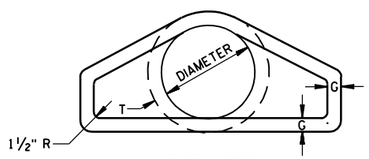


SIDE ELEVATION

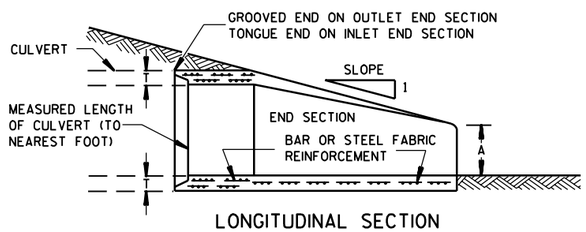
METAL ENDWALLS



PLAN

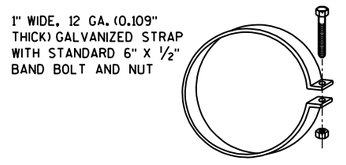


END VIEW



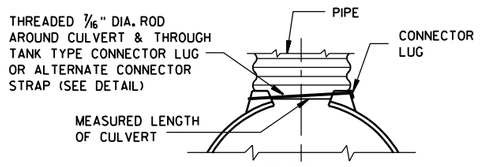
LONGITUDINAL SECTION

CONCRETE ENDWALLS

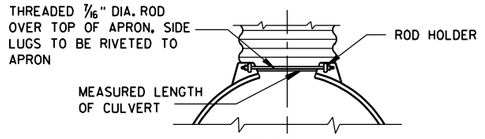


ALTERNATE FOR TYPE 1 CONNECTION

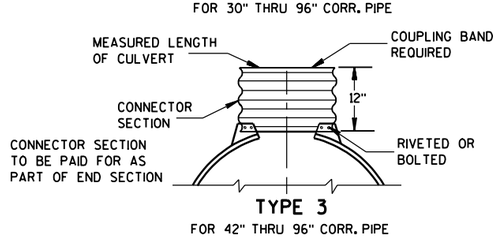
END SECTION CONNECTOR STRAP



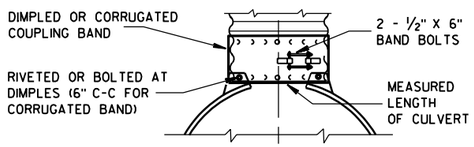
TYPE 1
FOR 12" THRU 24" CORR. PIPE



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

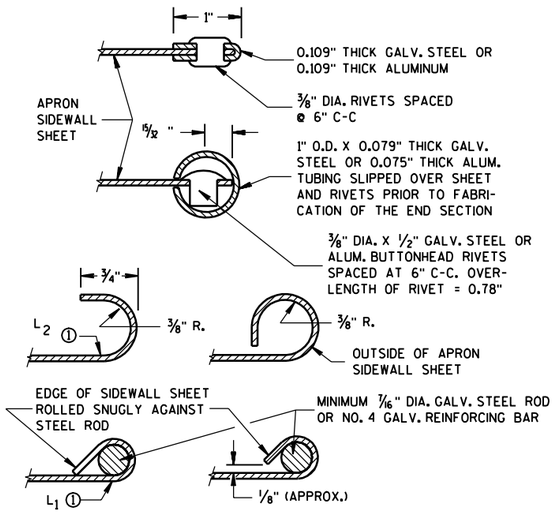
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

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.

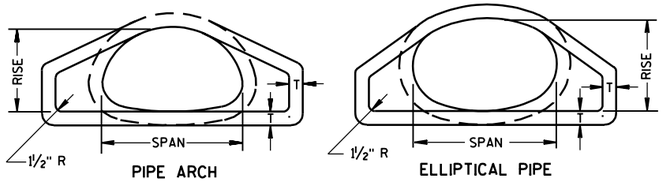
APRON ENDWALLS FOR CULVERT PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

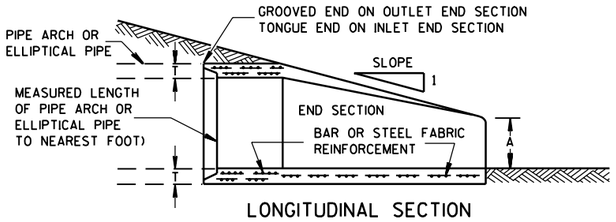
APPROVED
11/30/94
DATE

CHIEF ROADWAY DEVELOPMENT ENGINEER

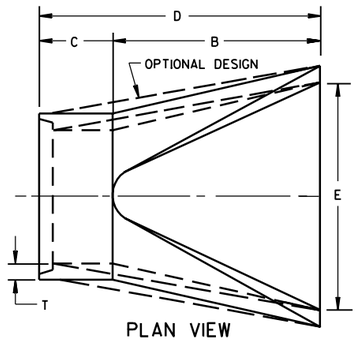
FHWA



END VIEW

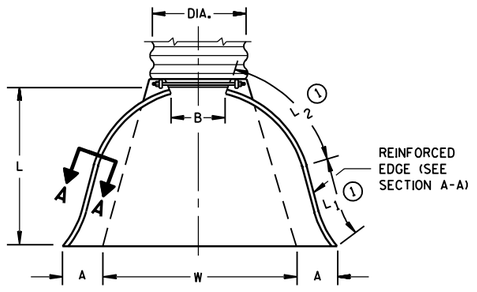


LONGITUDINAL SECTION

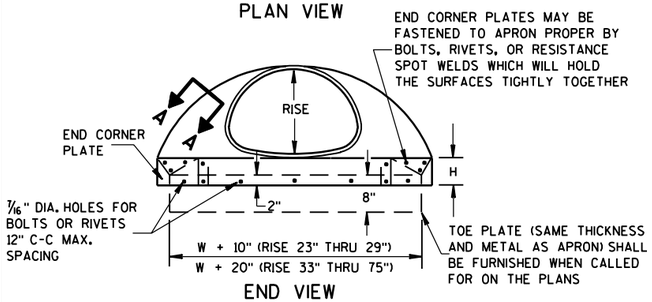


PLAN VIEW

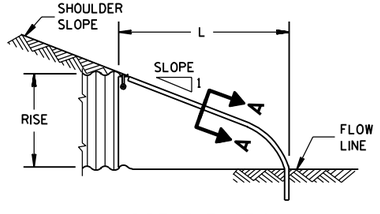
CONCRETE ENDWALLS



PLAN VIEW

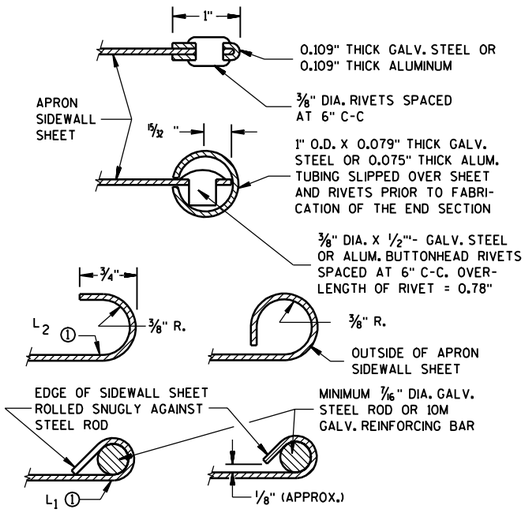


END VIEW



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

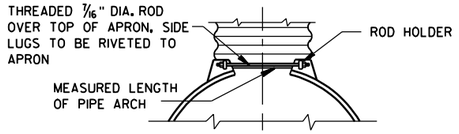
REINFORCED CONCRETE PIPE ARCH

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	15⅛	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

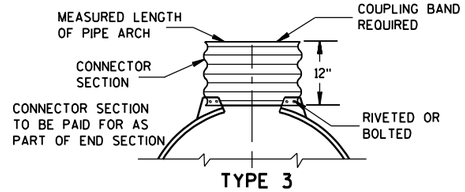
EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	30	19	3¼	8½	39	33	72	48	3 to 1
30	38	24	3¾	9½	54	18	72	60	3 to 1
36	45	29	4½	11⅛	60	24	84	72	2½ to 1
42	53	34	5	15¾	60	36	96	78	2½ to 1
48	60	38	5½	21	60	36	96	84	2½ to 1
54	68	43	6	25½	60	36	96	90	2½ to 1
60	76	48	6½	30	60	36	96	96	2½ to 1

** NOMINAL SIZE



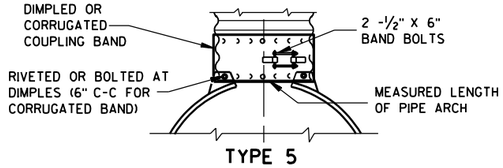
TYPE 2

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

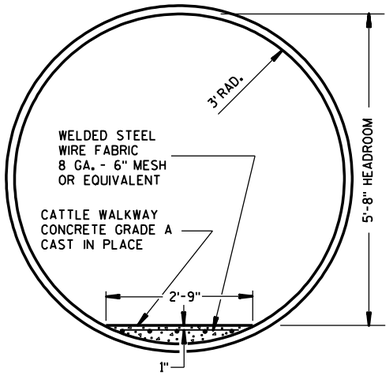
APPROVED
11/30/94
DATE

CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

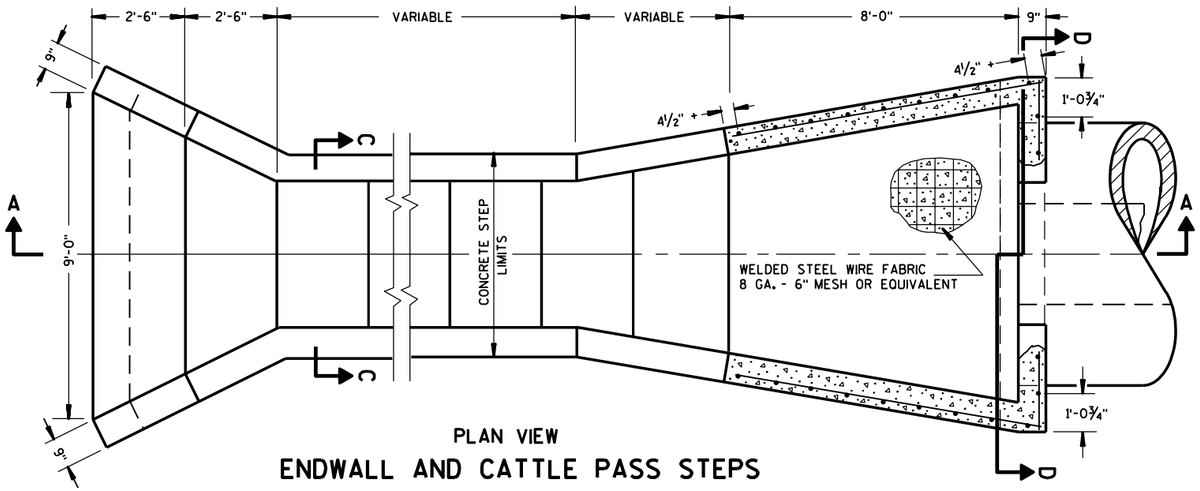
6

S.D.D. 8 F 2-1



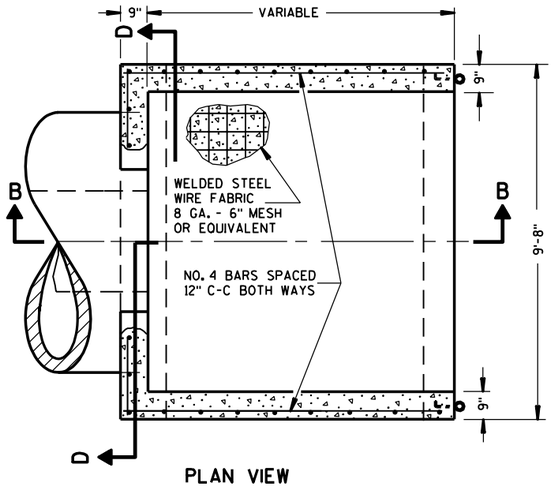
CROSS SECTION

CORRUGATED METAL PIPE CATTLE PASS



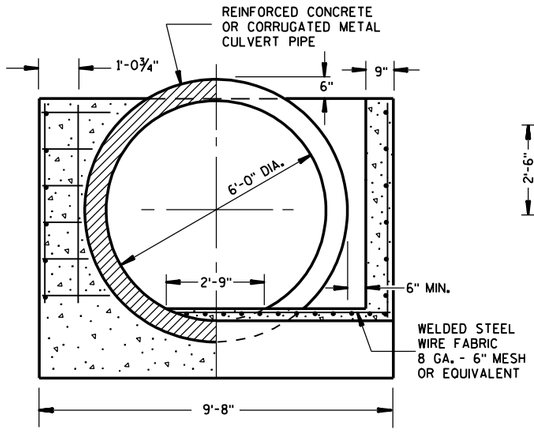
PLAN VIEW

ENDWALL AND CATTLE PASS STEPS

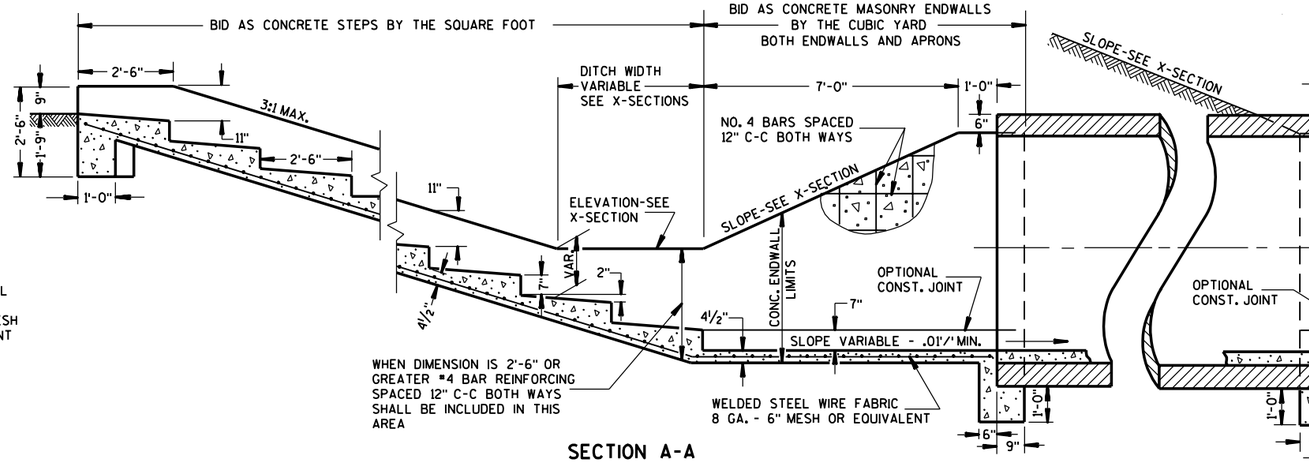


PLAN VIEW

ENDWALL FOR CATTLE PASS

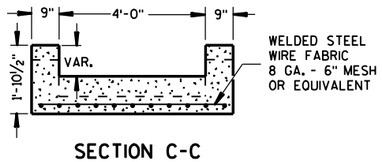


SECTION D-D

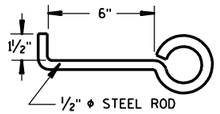


SECTION A-A

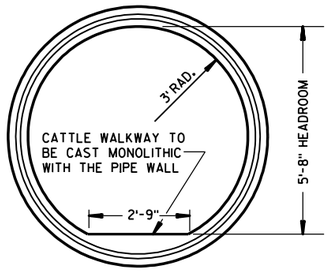
SECTION B-B



SECTION C-C



EYE-ROD ANCHOR



END VIEW

REINFORCED CONCRETE PIPE CATTLE PASS

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.

ALL STEEL REINFORCEMENT IN ENDWALLS AND CATTLE PASS STEPS SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE NOTED.

ALL STEEL REINFORCEMENT OR FABRIC USED AS SHOWN ABOVE SHALL BE INCIDENTAL TO THE BID ITEM OF WHICH IT IS AN INTEGRAL PART.

EYE-RODS FOR FENCE CONNECTIONS SHALL BE PROVIDED BY THE CONTRACTOR AS AN INCIDENTAL TO THE BID ITEM OF CONCRETE MASONRY, ENDWALLS AND SHALL BE GALVANIZED.

CONCRETE USED FOR THE CATTLE WALKWAY WITHIN THE PIPE SHALL BE INCIDENTAL TO THE BID ITEM OF PIPE CATTLE PASS.

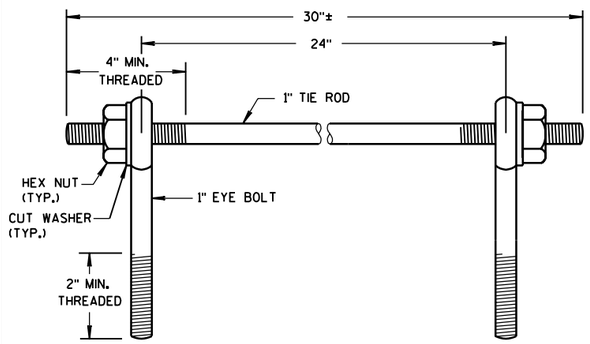
DETAILS FOR PIPE CATTLE PASS, CONCRETE ENDWALLS AND STEPS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

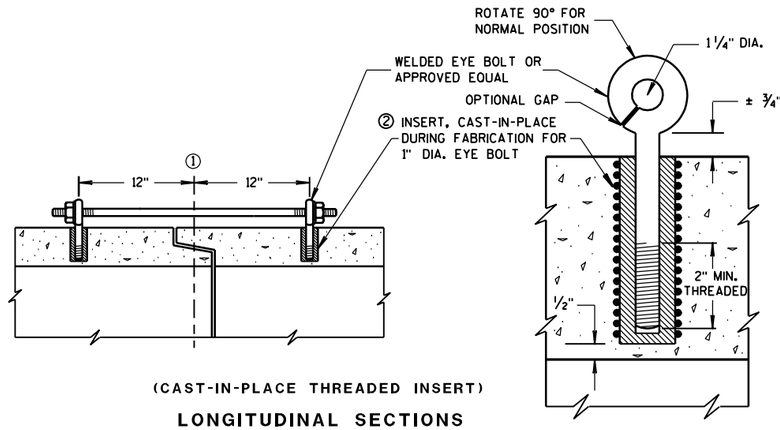
APPROVED
6/6/75
DATE

H. J. Bauman
STATE HIGHWAY ENGINEER

FHWA



EYE BOLTS AND TIE ROD



(CAST-IN-PLACE THREADED INSERT)

LONGITUDINAL SECTIONS

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 PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED ON 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 CULVERT PIPE AS INDICTED ON THE PLANS AND BY THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO CILVERT PIPE, REINFORCED CONCRETE CULVERT PIPE, OR REINFORCED CONCRETE PIPE CATTLE PASS.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

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.

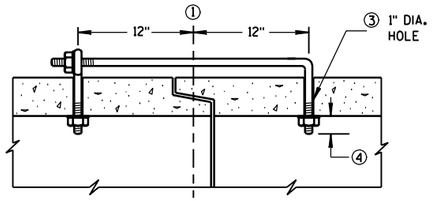
③ HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12 INCHES FROM ℄ OF TONGUE AND GROOVE.

④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

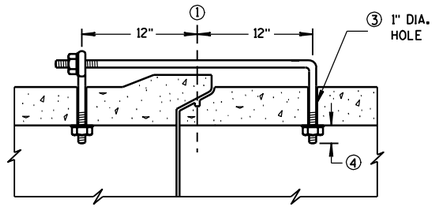
⑤ OPENING TO BE ROD DIAMETER PLUS 1 INCH.

⑥ LENGTH ADEQUATE TO EXTEND TO WITHIN 1/2 INCH OF THE INNER SURFACE OF THE PIPE.

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 1)



(TONGUE & GROOVE PIPE)



(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

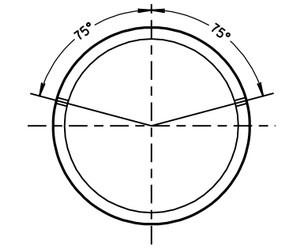
EYE BOLT DIMENSION TABLE

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"	

ADJUSTABLE TIE ROD TABLE

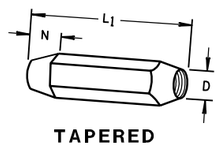
PIPE DIAMETER	TIE ROD DIAMETER	D	L_1	N
12-60	5/8	5/8	5	1/2
66-84	3/4	3/4	5	1/2
90-108	1	1	7	1 7/16

DIMENSIONS SHOWN ARE IN INCHES

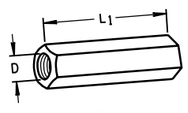


PLACEMENT OF (2) CAST-IN-PLACE INSERTS OR HOLES DURING FABRICATION FOR PIPE SECTIONS REQUIRING TIE RODS

TRANSVERSE SECTION



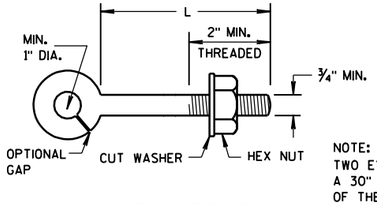
TAPERED



PLAIN

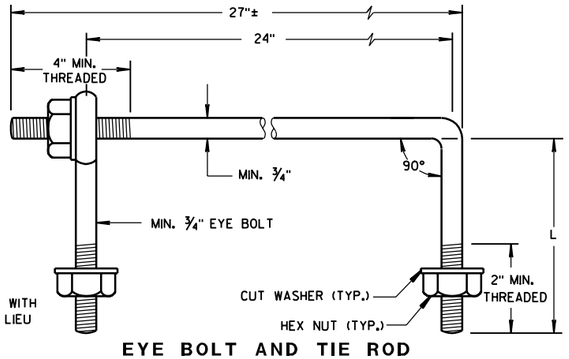
RIGHT AND LEFT THREADS

SLEEVE NUTS



EYE BOLT

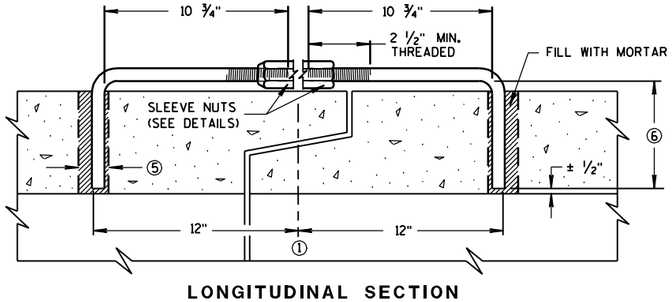
NOTE: TWO EYE BOLTS MAY BE USED WITH A 30" LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.



EYE BOLT AND TIE ROD

(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 2)



LONGITUDINAL SECTION

(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)

JOINT TIES FOR CONCRETE PIPE

STATE OF WISCONSIN
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APPROVED
12/17/07
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

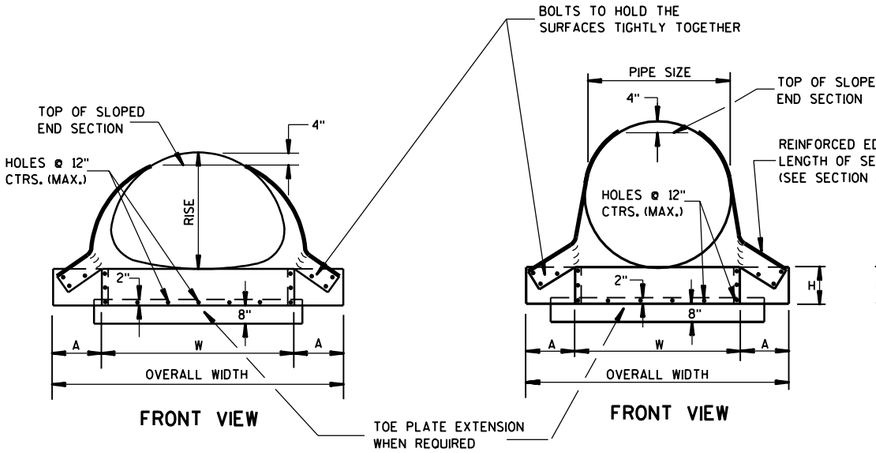
FHWA

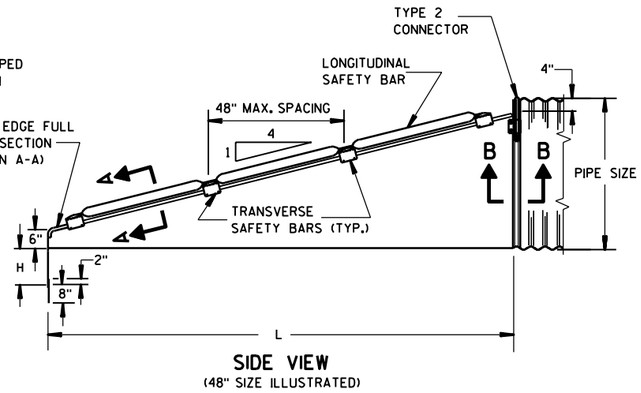
6

S.D.D. 8 F 4-6

6

S.D.D. 8 F 4-6





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.

SAFETY GRATES SHALL BE FABRICATED FROM 3-INCH DIAMETER GALVANIZED PIPE MEETING THE REQUIREMENTS OF ASTM A-53, GRADE B, SCHEDULE 40 OR APPROVED EQUAL. THE LONGITUDINAL BAR SHALL BE WELDED TO THE TRANSVERSE BARS WHERE THE BARS CROSS. THE NUMBER OF TRANSVERSE BARS REQUIRED WILL VARY DEPENDING ON THE LENGTH OF THE END SECTION.

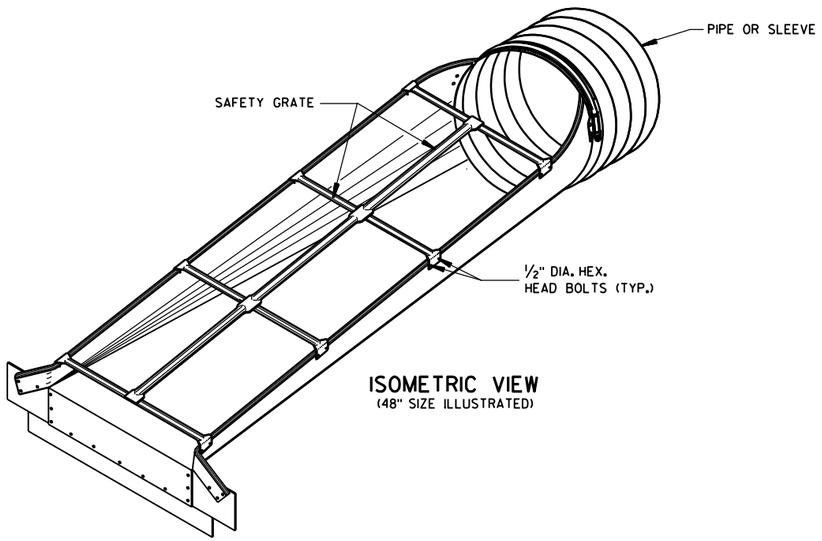
SLOPED STEEL ENDWALLS LOCATED AT THE ENDS OF CONCRETE CULVERT PIPE SHALL BE FURNISHED WITH STEEL ADAPTER SLEEVES.

SLOPED STEEL ENDWALLS FOR CULVERT PIPE CROSS DRAINS

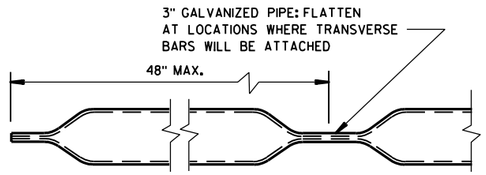
PIPE DIA. (IN.)	MIN. THICK.		DIMENSIONS (Inches)				L DIMENSIONS	
	IN.	GAGE	A	H	W	OVERALL WIDTH	SLOPE	LENGTH INCHES
36	.109	12	12	9	42	66	4:1	104
42	.109	12	16	12	48	80	4:1	128
48	.109	12	16	12	54	86	4:1	152
54	.109	12	16	12	60	92	4:1	176
60	.109	12	16	12	66	98	4:1	200

SLOPED STEEL ENDWALLS FOR PIPE ARCH CROSS DRAINS

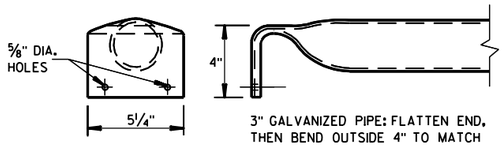
EQUIV. DIA. (IN.)	INCHES		MIN. THICK.		DIMENSIONS (Inches)				L DIMENSIONS	
	SPAN	RISE	IN.	GAGE	A	H	W	OVERALL WIDTH	SLOPE	LENGTH INCHES
36	42	29	.079	12	12	9	48	72	4:1	76
42	49	33	.109	12	16	12	55	87	4:1	92
48	57	38	.109	12	16	12	63	95	4:1	112
54	64	43	.109	12	16	12	70	102	4:1	132
60	71	47	.109	12	16	12	77	109	4:1	148



ISOMETRIC VIEW
(48" SIZE ILLUSTRATED)



LONGITUDINAL SAFETY BAR



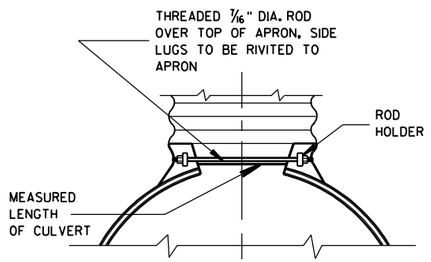
3" GALVANIZED PIPE: FLATTEN END, THEN BEND OUTSIDE 4" TO MATCH END SECTION SIDES.

TRANSVERSE SAFETY BAR

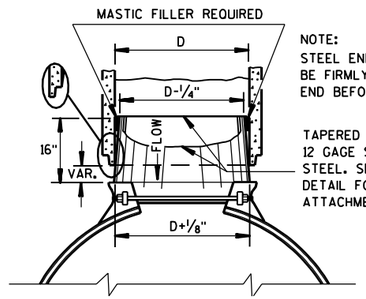
DESIGN NOTE: (WILL NOT APPEAR ON CONTRACT PLANS)

THE INTENDED APPLICATION OF SLOPED STEEL ENDWALLS IS A SAFETY TREATMENT FOR CROSS DRAIN CULVERT PIPES/ARCHES LOCATED WITHIN THE CLEAR ZONE AND RECOVERY AREA OF RURAL HIGHWAYS. THIS SAFETY TREATMENT MAY BE A COST-EFFECTIVE ALTERNATIVE TO EXTENDING CULVERT PIPE OR SHIELDING THE CULVERT ENDS WITH TRAFFIC BARRIER. SLOPED STEEL ENDWALLS SHOULD NOT BE USED IF SIGNIFICANT HYDRAULIC CAPACITY OR CLOGGING PROBLEMS COULD RESULT.

USE 90.XXX BID ITEMS: SLOPED STEEL ENDWALL FOR CULVERT PIPE, CROSS DRAIN, (SIZE); OR SLOPED STEEL ENDWALL FOR PIPE ARCH, CROSS DRAIN, (SIZE).



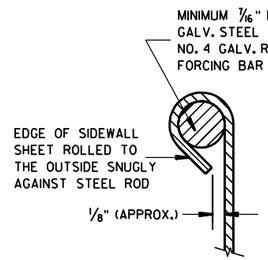
TYPE 2 CONNECTOR DETAIL



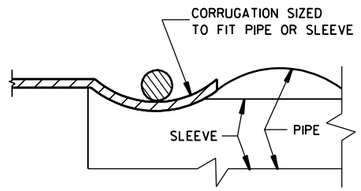
NOTE:
STEEL END SECTION SHALL BE FIRMLY WEDGED INTO PIPE END BEFORE BACKFILLING

TAPERED SLEEVE TO BE 12 GAGE SMOOTH GALVANIZED STEEL. SEE SECTION B-B DETAIL FOR END SECTION ATTACHMENT.

STEEL ADAPTER SLEEVE FOR CONCRETE PIPE



SECTION A-A



SECTION B-B

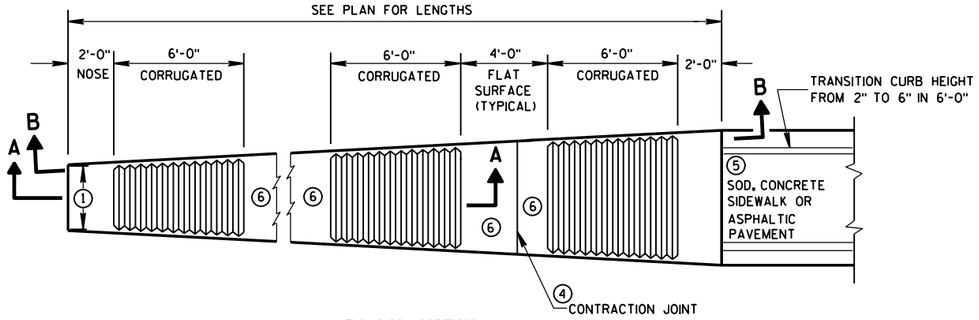
SLOPED STEEL ENDWALLS FOR CULVERT PIPE AND PIPE ARCH CROSS DRAINS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/6/90
DATE
FHWA

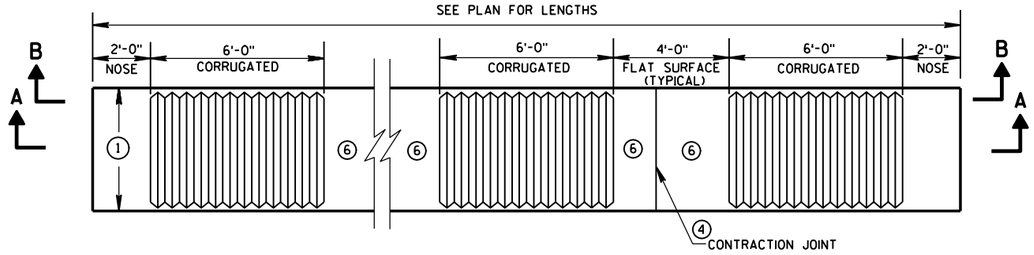
STATE DESIGN ENGINEER FOR HWYS.

S.D.D. 8 F 8-1



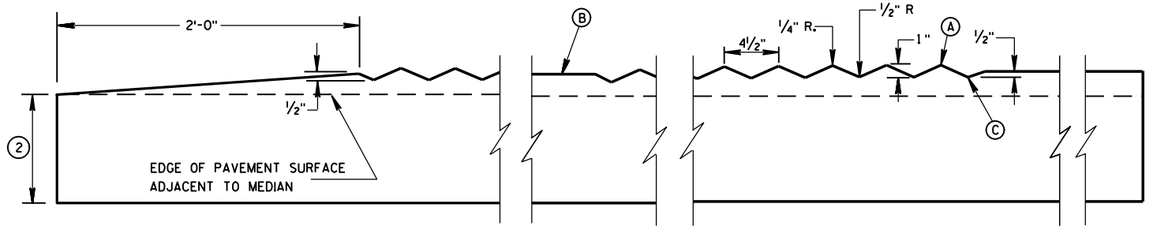
PLAN VIEW

VARIABLE WIDTH CONCRETE CORRUGATED MEDIAN



PLAN VIEW

UNIFORM WIDTH CONCRETE CORRUGATED MEDIAN

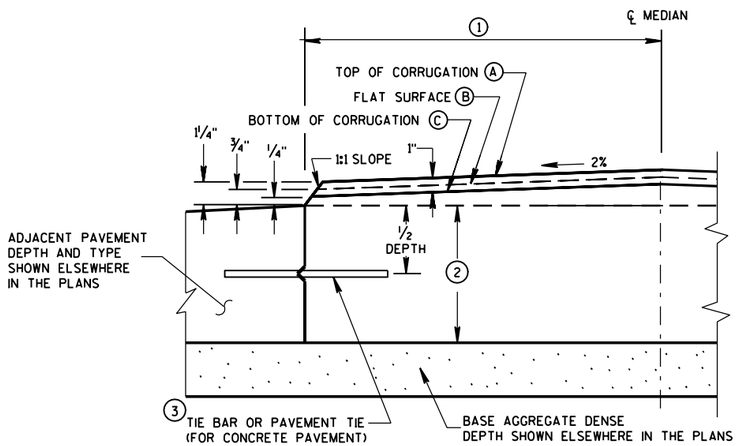


SECTION A-A

LONGITUDINAL SECTION

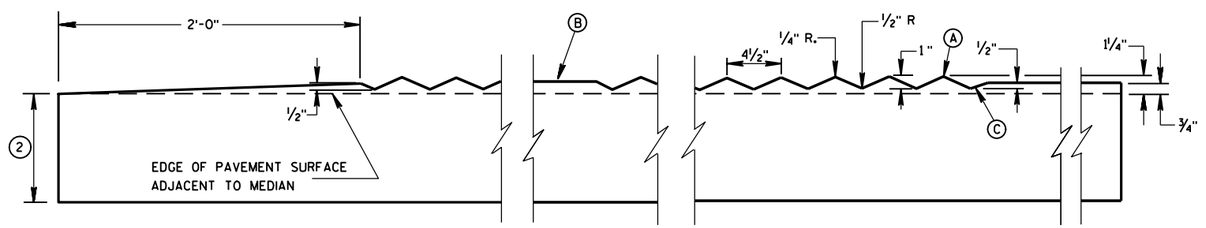
GENERAL NOTES

1. SEE PLANS FOR CONSTANT OR VARIABLE WIDTH.
2. THE DEPTH OF THE CONCRETE CORRUGATED MEDIAN SHALL BE 9-INCHES UNLESS SHOWN OTHERWISE IN THE PLAN.
   ADJACENT PAVEMENT STRUCTURE DETAILS ARE SHOWN IN THE PLAN. TYPICAL OPTIONS ARE:
   (1) NEW OR EXISTING CONCRETE PAVEMENT.
   (2) ASPHALTIC CONCRETE OVER NEW OR EXISTING CONCRETE BASE COURSE, OR PAVEMENT.
   (3) ASPHALTIC PAVEMENT OVER BASE AGGREGATE DENSE.
3. 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.
   INSTALL TIE BARS TO MAINTAIN A MINIMUM OF 3-INCHES OF COVER BETWEEN THE TIE BAR AND THE CONCRETE SURFACE (BOTTOM AND TOP).
   PAVEMENT TIES REQUIRED IN EXISTING CONCRETE PAVEMENT OR 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.
4. CONCRETE CORRUGATED MEDIAN CONTRACTION JOINTS SHALL BE CONSTRUCTED TO MATCH THE JOINTS IN ADJACENT CONCRETE PAVEMENT. WHERE ADJACENT PAVEMENT IS ASPHALT WITH BASE AGGREGATE DENSE. TRANSVERSE CONTRACTION JOINTS SHALL BE PROVIDED AT 20 FOOT INTERVALS.
5. SURFACE TYPE AND DETAILS ARE DEFINED ELSEWHERE IN THE PLAN.
6. YELLOW MARKING ON FLAT SURFACE WHEN MEDIAN SEPARATES OPPOSING TRAFFIC.



HALF CROSS SECTION

② CONCRETE CORRUGATED MEDIAN AND ADJACENT PAVEMENT



SECTION B-B

LONGITUDINAL SECTION

CONCRETE CORRUGATED MEDIAN

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

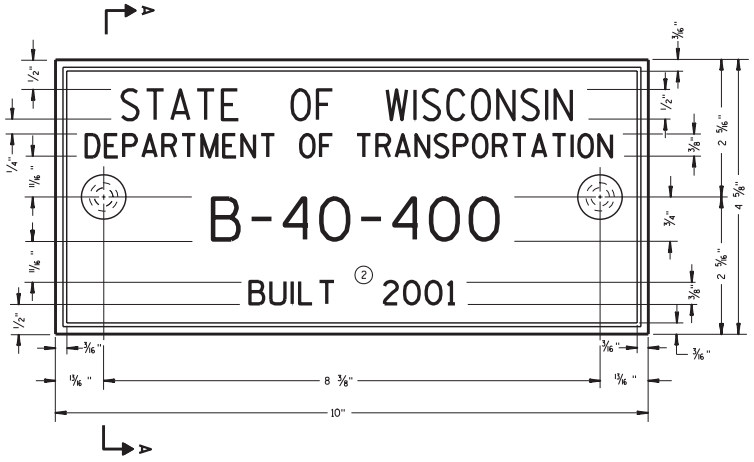
12/17/07 — DATE

/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA

6

S.D.D. 11B 1-5



TYPICAL NAME PLATE
(BRIDGES, CULVERTS, AND RETAINING WALLS)

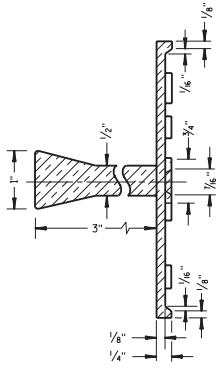
GENERAL NOTES

NAME PLATES TO BE INSTALLED ON BRIDGES, CULVERTS, AND RETAINING WALLS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS.

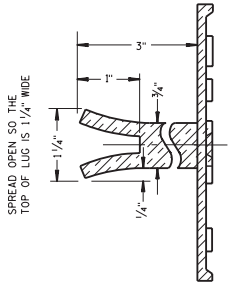
THE BRIDGE NUMBER AND YEAR BUILT SHOWN ON THIS DRAWING ARE EXAMPLES ONLY. SEE CONSTRUCTION PLANS FOR INDIVIDUAL NUMBERING AND YEAR BUILT.

① EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

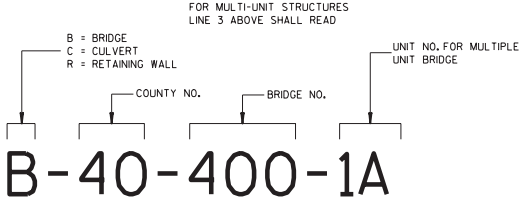
② REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



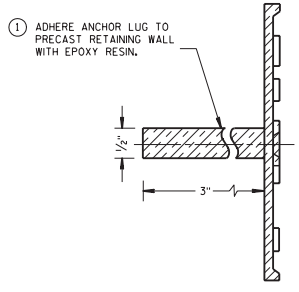
SECTION A-A



ALTERNATE LUG



NUMBERING DESIGNATION
MULTI-UNIT STRUCTURES



ALTERNATE LUG
(FOR ATTACHMENT TO PRECAST STRUCTURES)

NAME PLATE (STRUCTURES)	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 3/26/10 DATE FHWA	/S/ Scot Becker CHIEF STRUCTURAL DEVELOPMENT ENGINEER

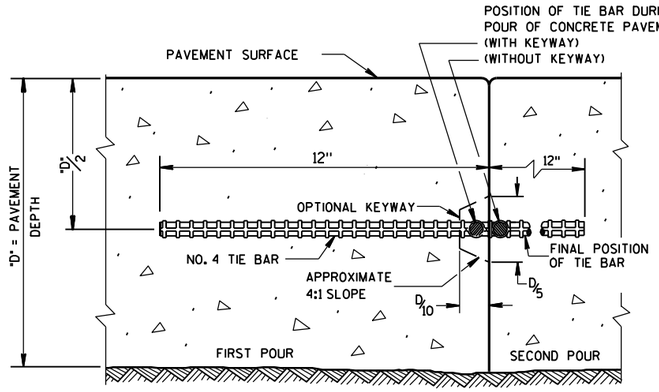
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S.D.D. 12 A 3-10

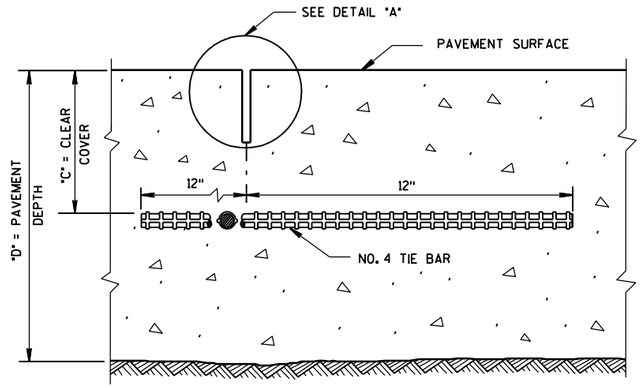
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S.D.D. 12 A 3-10

Sheet: 132A



CONSTRUCTION JOINT

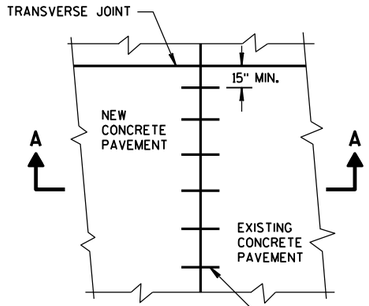


SAWED JOINT

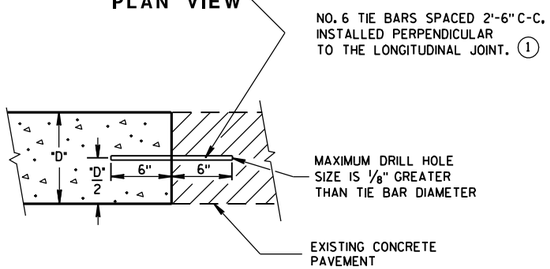
GENERAL NOTES

DO NOT SEAL OR FILL LONGITUDINAL JOINTS.

(1) ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

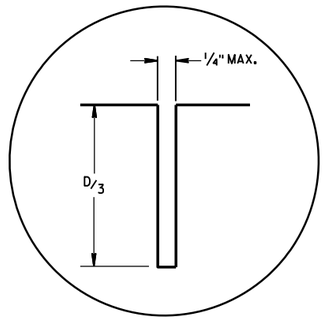


PLAN VIEW



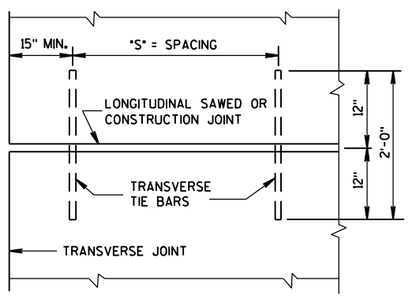
SECTION A-A

LONGITUDINAL CONSTRUCTION JOINT
TIE BARS ANCHORED
INTO EXISTING PAVEMENT



DETAIL "A"

PAVEMENT DEPTH "D"	CLEAR COVER "C"	MAXIMUM TIE BAR SPACING "S"	
		PAVEMENT WIDTH	
		24' OR 26'	≥30'
6, 6 ½"	3"±½"	48"	42"
7, 7 ½"	3 ¼"±1"	45"	36"
8, 8 ½"	3 ¾"±1"	39"	30"
9, 9 ½"	4 ¼"±1"	33"	27"
10, 10 ½"	4 ¾"±1"	30"	24"
11, 11 ½"	5 ¼"±1"	27"	21"
12"	5 ¾"±1"	24"	21"



PLAN VIEW
SHOWING LOCATION OF TIE BARS

CONCRETE PAVEMENT
LONGITUDINAL JOINTS AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

12/11/2009
DATE

/S/ Deb Bischoff
PAVEMENT POLICY & DESIGN ENGINEER

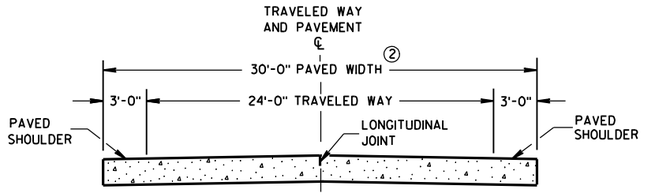
FHWA

6

S.D.D. 13 C 1-14

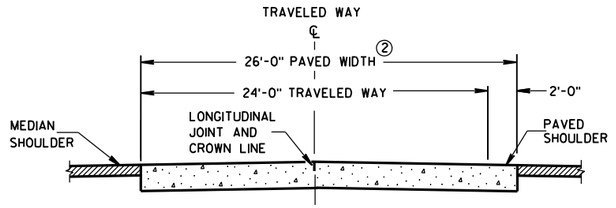
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S.D.D. 13 C 1-14

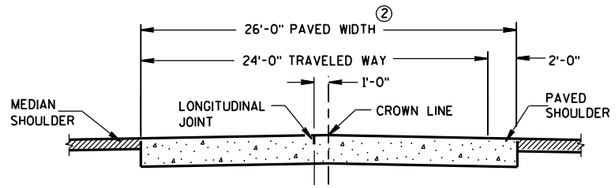


SECTION A-A ①

TWO-LANE TWO-WAY HIGHWAY



SECTION B-B



ALTERNATIVE SECTION B-B ①

DIVIDED HIGHWAY

GENERAL NOTES

CONTRACTION JOINTS

CONSTRUCT CONTRACTION JOINTS NORMAL TO THE CENTERLINE. SHOW THE LOCATION OF CONTRACTION JOINTS THROUGH INTERSECTIONS ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

DO NOT SEAL OR FILL CONTRACTION JOINTS.

INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

FOR PAVEMENT SLABS OF VARYING WIDTHS, CENTER THE DOWEL ASSEMBLY ACROSS THE LANES. LOCATE THE INNER AND OUTER MOST DOWEL BARS SO THAT THE CENTER OF THE BARS ARE A MINIMUM OF 6 INCHES AND A MAXIMUM OF 12 INCHES FROM THE LONGITUDINAL JOINT AND THE EDGE OF PAVEMENT.

CONSTRUCTION JOINTS

LOCATE CONSTRUCTION JOINTS A MINIMUM OF 4 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO CONTRACTION JOINTS.

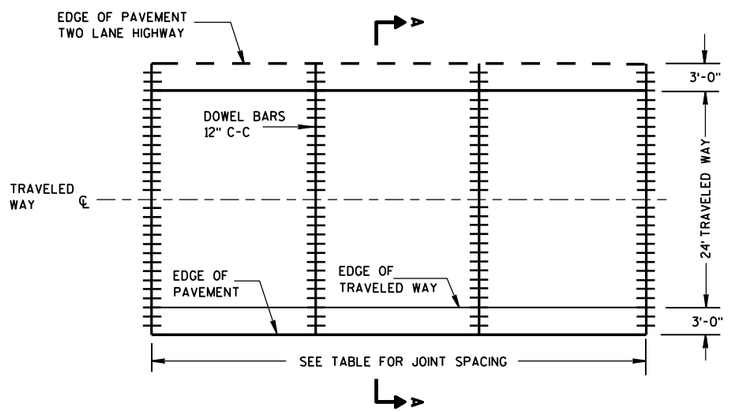
THE CONTRACTOR MAY INSERT TIE BARS THROUGH THE HEADER BOARD AFTER THE CONCRETE HAS BEEN PLACED.

① REFER TO TYPICAL CROSS SECTIONS FOR ADDITIONAL DETAILS.

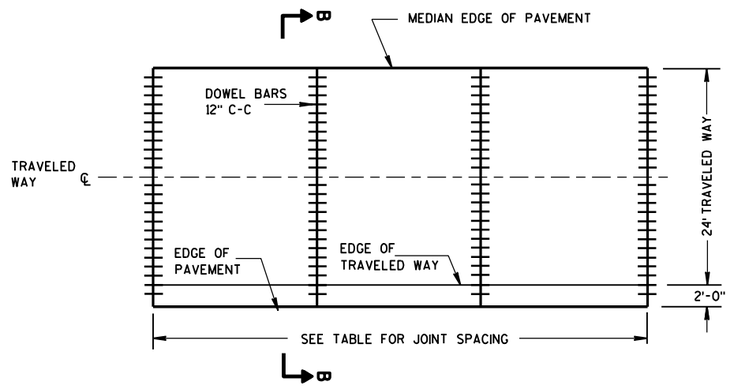
② MEASURE THE ENTIRE PAVED WIDTH INCLUDING THE PORTION(S) LABELED PAVED SHOULDER AS CONCRETE PAVEMENT.

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
5 ½", 6", 6 ½"	NONE	12'
7", 7 ½"	1"	14'
8", 8 ½"	1 ¼"	15'
9", 9 ½"	1 ¼"	15'
10" & ABOVE	1 ½"	15'



CONTRACTION JOINT LAYOUT
FOR TWO-LANE TWO-WAY HIGHWAY



CONTRACTION JOINT LAYOUT
FOR DIVIDED HIGHWAY

RURAL DOWELED
CONCRETE PAVEMENT

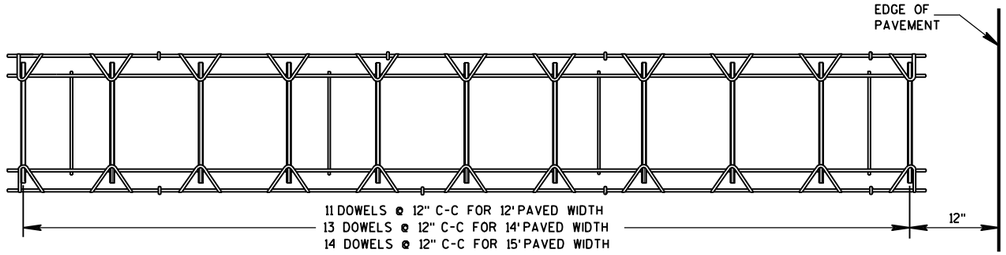
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

S.D.D. 13 C 11-10a

6

S.D.D. 13 C 11-10a

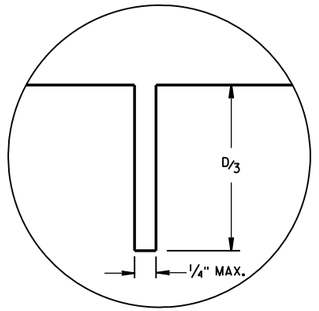


PLAN VIEW

SIDE VIEW

(NORMAL TO CENTERLINE)

CONTRACTION JOINT DOWEL ASSEMBLY ①



JOINT DETAIL

GENERAL NOTES

① THE ENGINEER MAY APPROVE THE USE OF ALTERNATIVE DESIGNS OF THE DOWEL ASSEMBLY. THE CONTRACTOR MAY USE MECHANICAL DOWEL BAR INSERTERS INSTEAD OF DOWEL ASSEMBLIES.

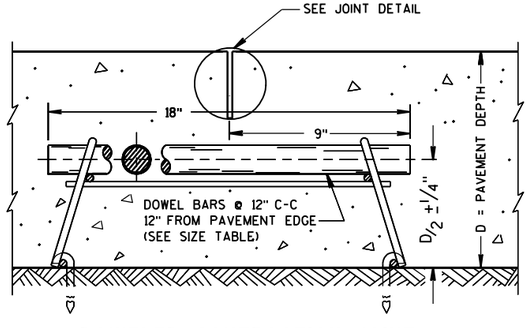
② ANCHOR DOWEL BARS INTO DRILLED HOLES WITH AN EPOXY.

③ APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.

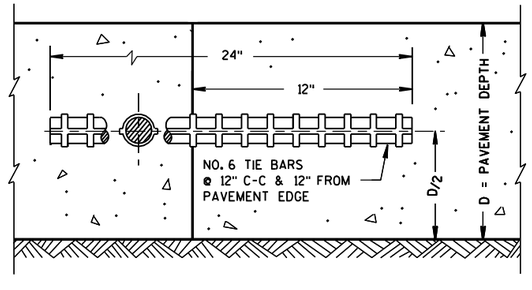
④ SPACE DOWEL BARS INSTALLED BY DRILLING 1'-3" ON CENTER. CENTER THE GROUPING OF DOWEL BARS INSIDE THE SLAB BASED ON ALL THE FOLLOWING SITUATIONS:

BETWEEN THE EDGES OF PAVEMENTS WITHOUT LONGITUDINAL JOINTS OR BETWEEN THE EDGE OF PAVEMENT AND NEAREST LONGITUDINAL JOINT OR BETWEEN TWO ADJACENT LONGITUDINAL JOINTS.

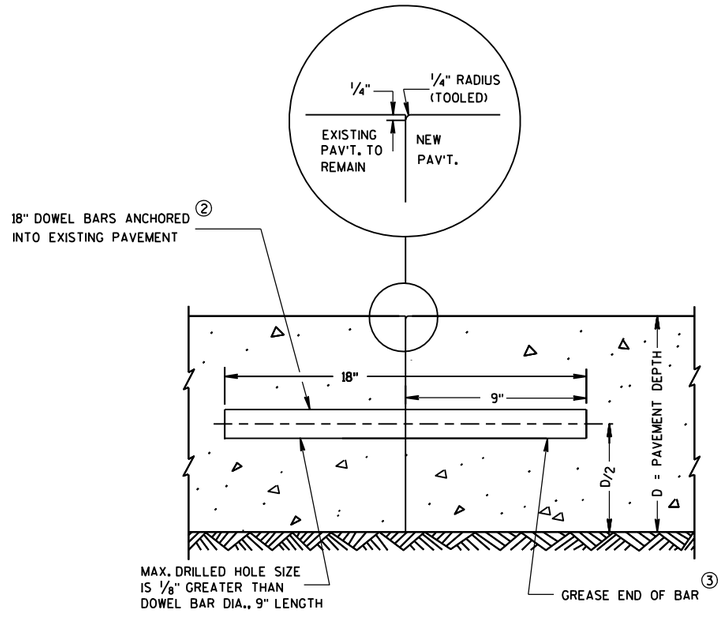
⑤ SECURE BASKETS WITH ANCHORS TO HOLD DOWEL BARS IN THE CORRECT POSITION AND ALIGNMENT. TYPE, LOCATION, NUMBER AND LENGTH OF ANCHORS ARE DEPENDENT UPON FIELD CONDITIONS.



DOWELED CONTRACTION JOINT



CONSTRUCTION JOINT



TRANSVERSE CONTRACTION JOINTS ABUTTING EXISTING PAVEMENT

④ DOWEL BAR DETAIL

RURAL DOWELED CONCRETE PAVEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

12/11/09 — DATE

/S/ Deb Bischoff — PAVEMENT POLICY & DESIGN ENGINEER

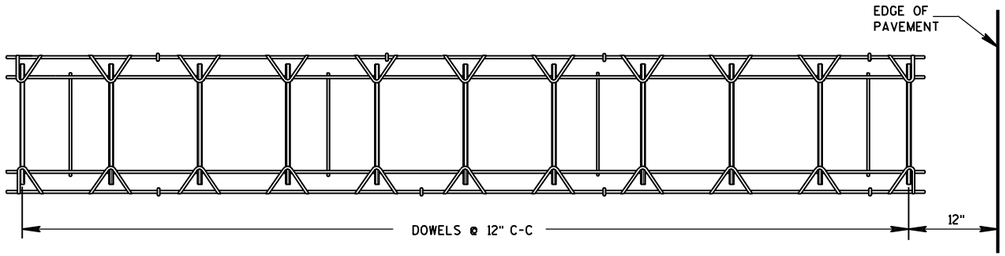
FHWA

6

S.D.D. 13 C 11-10b

6

S.D.D. 13 C 11-10b



PLAN VIEW

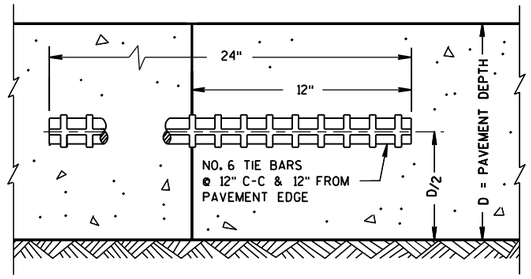


SIDE VIEW

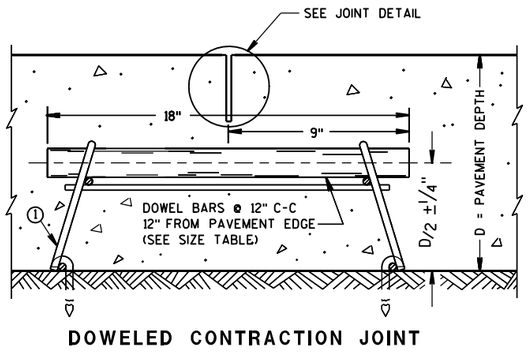
CONTRACTION JOINT DOWEL ASSEMBLY ①

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
5 ½", 6", 6 ½"	NONE	12'
7", 7 ½"	1"	14'
8", 8 ½"	1 ¼"	15'
9", 9 ½"	1 ¼"	15'
10" & ABOVE	1 ½"	15'



TRANSVERSE CONSTRUCTION JOINT



DOWELED CONTRACTION JOINT

GENERAL NOTES

CONTRACTION JOINTS

CONSTRUCT CONTRACTION JOINTS NORMAL TO THE CENTERLINE. SHOW THE LOCATION OF CONTRACTION JOINTS THROUGH INTERSECTIONS ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

DO NOT SEAL OR FILL CONTRACTION JOINTS.

INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

FOR PAVEMENT SLABS OF VARYING WIDTHS, CENTER THE DOWEL ASSEMBLY ACROSS THE LANES. LOCATE THE INNER AND OUTER MOST DOWEL BARS SO THAT THE CENTER OF THE BARS ARE A MINIMUM OF 6 INCHES AND A MAXIMUM OF 12 INCHES FROM THE LONGITUDINAL JOINT AND THE EDGE OF PAVEMENT.

CONSTRUCTION JOINTS

LOCATE CONSTRUCTION JOINTS A MINIMUM OF 4 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO CONTRACTION JOINTS.

THE CONTRACTOR MAY INSERT TIE BARS THROUGH THE HEADER BOARD AFTER THE CONCRETE HAS BEEN PLACED.

① THE ENGINEER MAY APPROVE THE USE OF ALTERNATIVE DESIGNS OF THE DOWEL ASSEMBLY. THE CONTRACTOR MAY USE MECHANICAL DOWEL BAR INSERTERS INSTEAD OF DOWEL ASSEMBLIES.

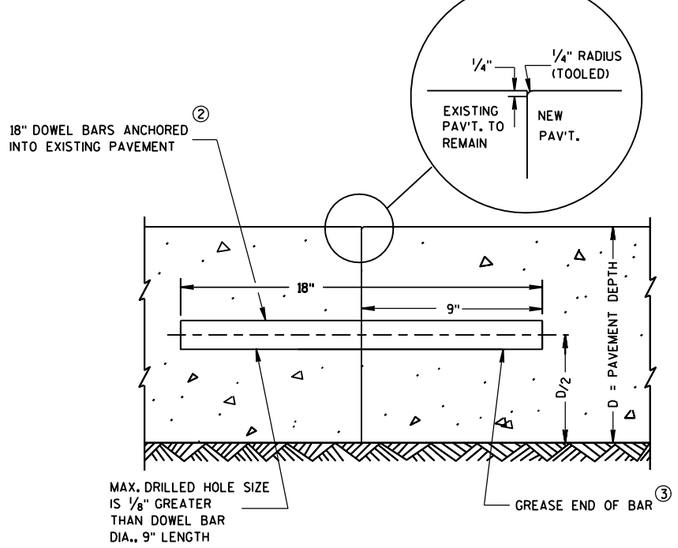
② ANCHOR DOWEL BARS INTO DRILLED HOLES WITH AN EPOXY.

③ APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.

④ SPACE DOWEL BARS INSTALLED BY DRILLING 1'-3" ON CENTER. CENTER THE GROUPING OF DOWEL BARS INSIDE THE SLAB BASED ON ALL THE FOLLOWING SITUATIONS:

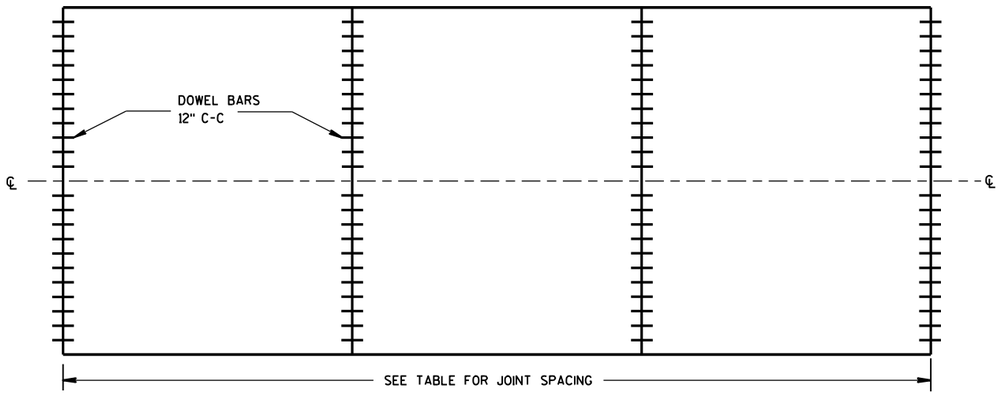
BETWEEN THE EDGES OF PAVEMENTS WITHOUT LONGITUDINAL JOINTS OR
BETWEEN THE EDGE OF PAVEMENT AND NEAREST LONGITUDINAL JOINT OR
BETWEEN TWO ADJACENT LONGITUDINAL JOINTS.

⑤ SECURE BASKETS WITH ANCHORS TO HOLD DOWEL BARS IN THE CORRECT POSITION AND ALIGNMENT. TYPE, LOCATION, NUMBER AND LENGTH OF ANCHORS ARE DEPENDENT UPON FIELD CONDITIONS.

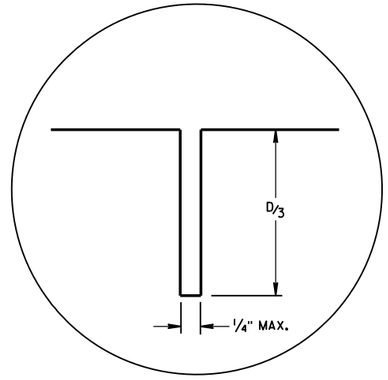


TRANSVERSE CONTRACTION JOINTS ABUTTING EXISTING PAVEMENT

④ DOWEL BAR DETAIL



CONTRACTION JOINT LOCATIONS



JOINT DETAIL

URBAN DOWELED CONCRETE PAVEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
12/11/2009 DATE
/S/ Deb Bischoff PAVEMENT POLICY & DESIGN ENGINEER
FHWA

6

S.D.D. 13 C 13-7

6

S.D.D. 13 C 13-7

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) 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.

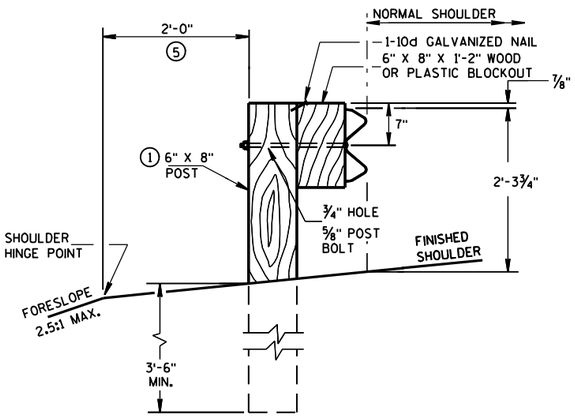
(4) USE EITHER WOOD OR APPROVED PLASTIC BLOCKOUTS ON WOOD POSTS.

(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).

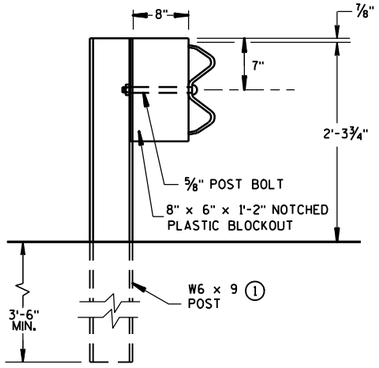
(6) IF ROCK IS ENCOUNTERED DURING EXCAVATION, THE ENGINEER MAY APPROVE USING A 12 INCH DIAMETER POST HOLE EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE APPROXIMATELY 2½ INCHES DEEP. CUT THE POSTS TO LENGTH AND PLACE IN YHE HOLE. BACKFILL WITH MATERIAL EXCAVATED FROM THE HOLE AND COMPACT ADEQUATEY.

INSTALL BEAM GUARD SECTIONS AND ALL NECESSARY HARDWARE ACCORDING TO THE APPLICABLE PLAN AND CURRENT STANDARD AND SUPPLEMENTAL SPECIFICATIONS.

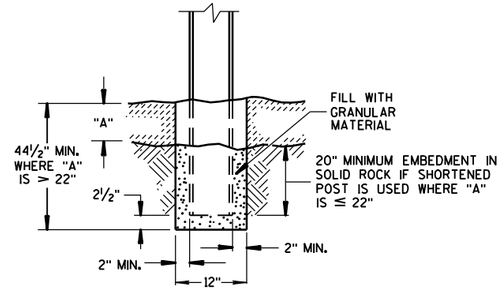
ALL DIMENSIONS ARE SUBJECT TO MANUFACTURER'S TOLERANCES EXCEPT WHERE ALLOWABLE TOLERANCES ARE SHOWN.



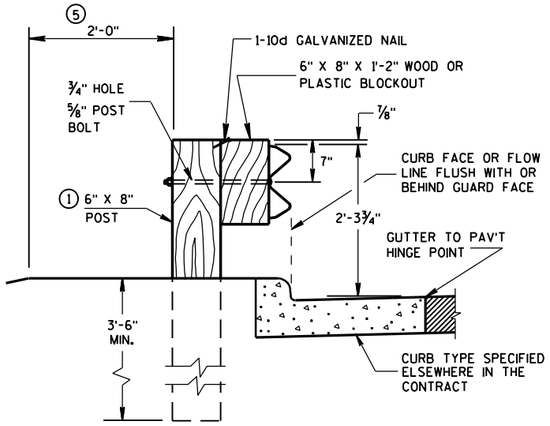
END VIEW
LOCATED ALONG A ROADWAY SHOULDER
STANDARD INSTALLATION



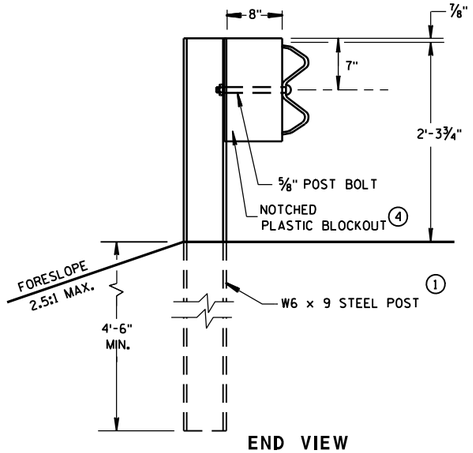
END VIEW
STEEL POST & NOTCHED
PLASTIC BLOCKOUT ALTERNATIVE
STANDARD INSTALLATION



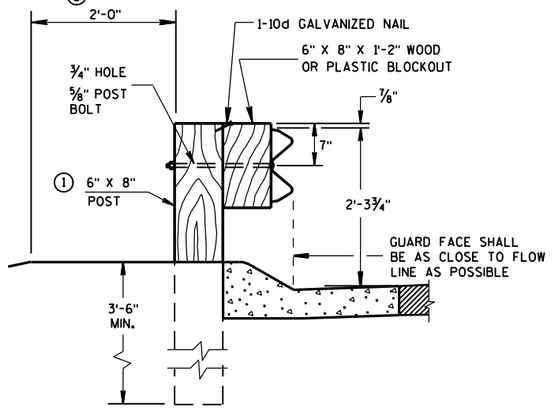
END VIEW
SETTING STEEL OR WOOD POST IN ROCK (6)



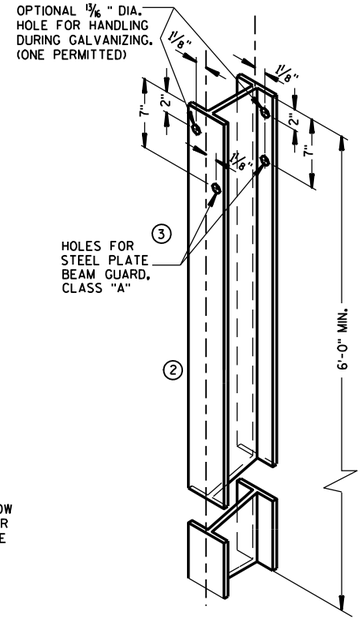
END VIEW
LOCATED ALONG A CURBED ROADWAY



END VIEW
LONGER POST AT HALF
POST SPACING W BEAM
(LHW)

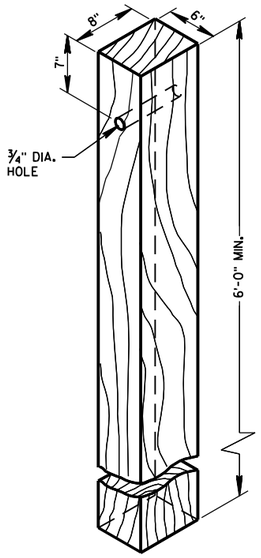


END VIEW
LOCATED ALONG A
MOUNTABLE CURBED ROADWAY

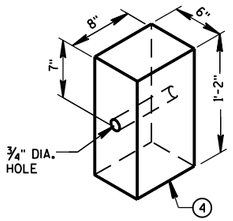


STEEL POST &
HOLE PUNCHING DETAIL
(W6 X 9) (1)

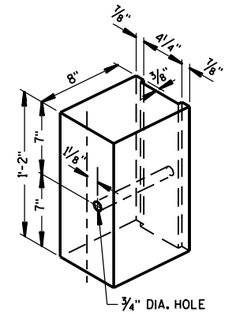
ALL HOLES 13/16" DIAMETER EXCEPT AS NOTED



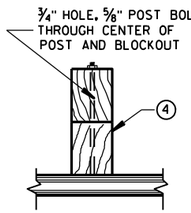
WOOD POST
(6"X8") NOMINAL



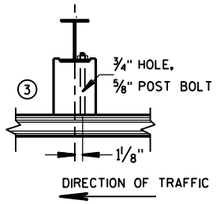
WOOD OR PLASTIC
BLOCKOUT FOR
WOOD POSTS



TYPICAL NOTCHED (1)
PLASTIC BLOCKOUT
FOR STEEL POSTS



PLAN VIEW
WOOD POST,
BLOCKOUT & BEAM



PLAN VIEW
STEEL POST, NOTCHED
PLASTIC BLOCKOUT & BEAM

TYPICAL INSTALLATION OF STEEL PLATE BEAM GUARD

STEEL PLATE BEAM GUARD,
CLASS "A"
INSTALLATION & ELEMENTS

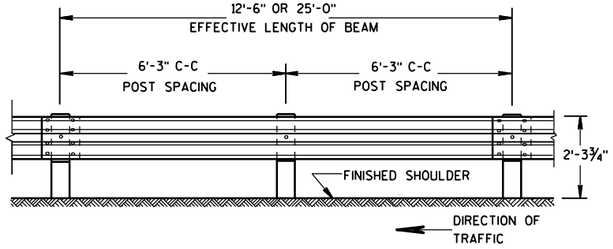
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

S.D.D. 14 B 15-60

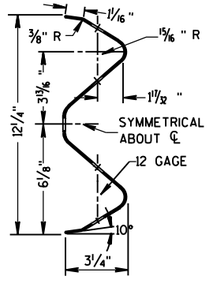
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S.D.D. 14 B 15-60

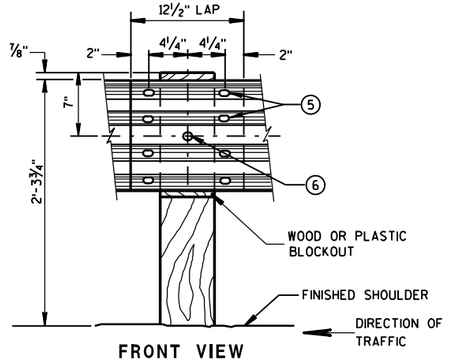


FRONT VIEW

POST SPACING STANDARD INSTALLATION



SECTION THRU W BEAM

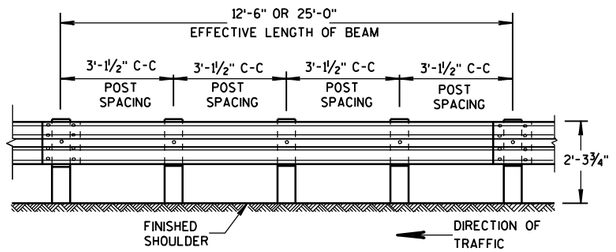


FRONT VIEW

BEAM SPLICE AT WOOD POST AND POST MOUNTING DETAIL

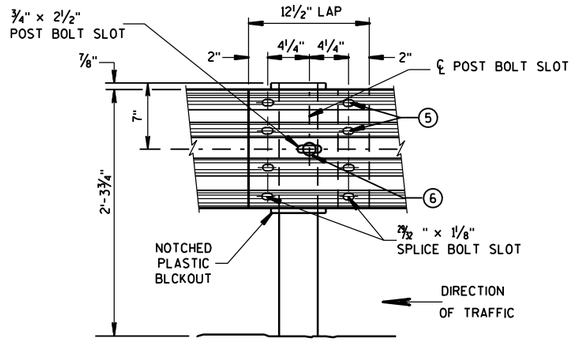
GENERAL NOTES

1. PROVIDE TYPE "H" SILVER REFLECTIVE SHEETING ON ALL REFLECTORS EXCEPT THOSE LOCATED ALONG THE LEFT EDGE OF ONE-WAY ROADWAYS, WHICH SHALL BE PROVIDED WITH TYPE "H" YELLOW REFLECTIVE SHEETING.
2. DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.
3. REVERSE EVERY OTHER REFLECTOR FOR 2-WAY VISIBILITY. THE CONTRACTOR MAY FURNISH TWO-SIDED REFLECTORS IN LIEU OF ONE-SIDED REFLECTORS.
4. PROVIDE AN ANGLE OF BEND OF 90° ± 1° FOR TWO-SIDED REFLECTORS.
5. 8 -⅝" ϕ X 2 " BUTTON HEAD BOLTS WITH OVAL SHOULDERS & RECESS NUTS.
6. ⅝" ϕ X 1'-6" BUTTON HEAD BOLT AND AND RECESS NUT WITH ROUND WASHER UNDER NUT.



FRONT VIEW

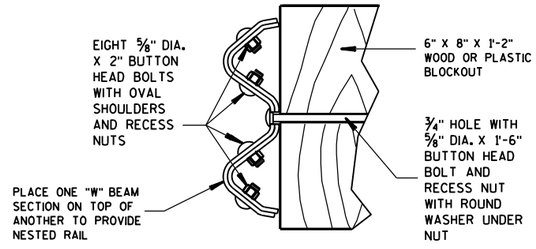
POST SPACING FOR LONGER POST AT HALF POST SPACING W BEAM (LHW)



FRONT VIEW

BEAM SPLICE AT STEEL POST

TYPICAL SPLICING DETAILS OF STEEL PLATE BEAM GUARD

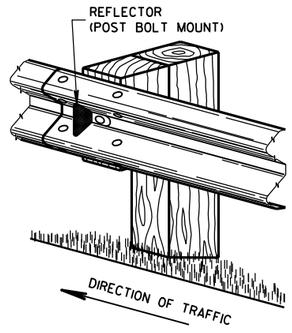


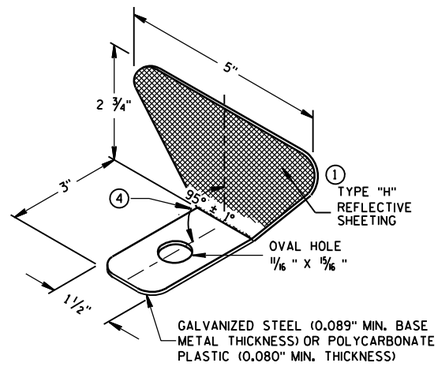
NESTED W BEAM (NW)

USE ALL OTHER STANDARD BEAM GUARD DETAILS FOR CONSTRUCTING NESTED W BEAM (NW)

REFLECTOR SPACING (2)

	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 (3)	6
	> 200'	50' C-C	1	
TWO WAY TRAFFIC	< 200'	50' C-C	2 (4)	3
	> 200'	100' C-C	2	





ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION (1)

STEEL PLATE BEAM GUARD,
CLASS "A",
INSTALLATION & ELEMENTS

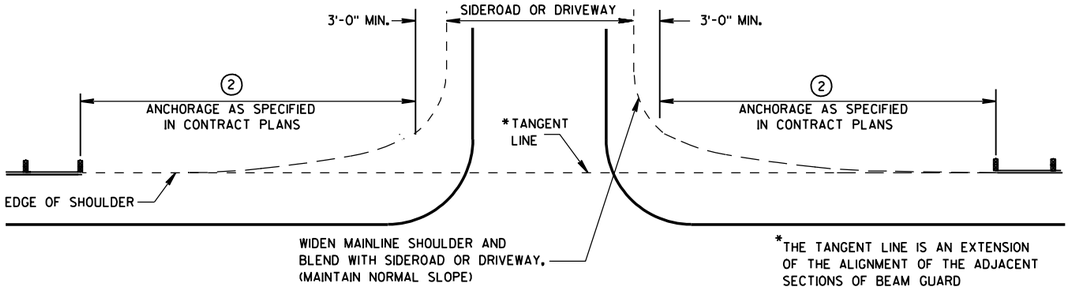
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

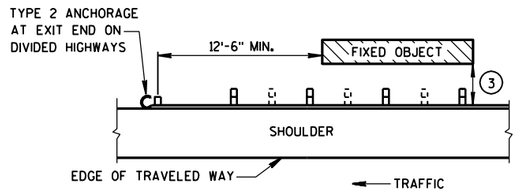
S.D.D. 14 B 15-6b

6

S.D.D. 14 B 15-6b



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.

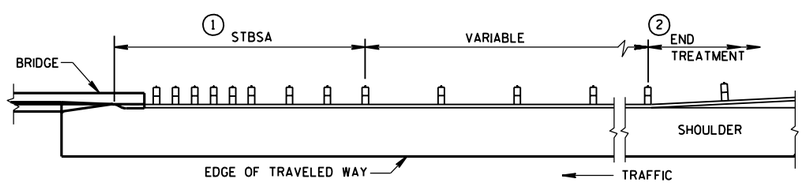
THE LOCATIONS AND LENGTHS OF BEAM GUARD ARE SHOWN ELSEWHERE IN THE PLAN.

(1) STEEL THRIE BEAM STRUCTURAL APPROACH (STBSA) - SEE CURRENT SDD 14B20.

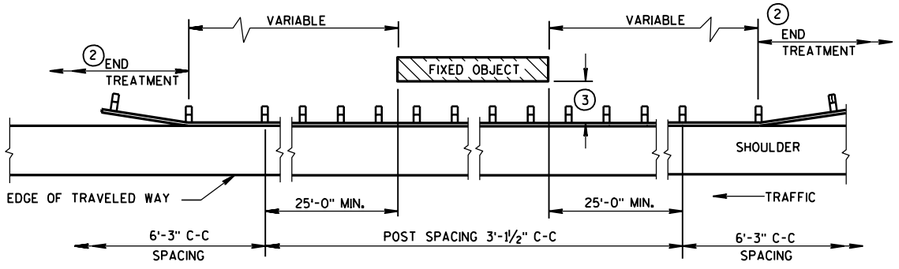
(2) USE AN APPROVED END TREATMENT FOR THE TRAFFIC APPROACH SIDE OF BRIDGE/OBSTACLES. USE TYPE 2 ANCHORAGE ONLY AT THE DOWNSTREAM ENDS OF BEAM GUARD LOCATED ALONG ROADWAYS WITH ONE WAY TRAFFIC.

(3)

MINIMUM LATERAL DISTANCE FROM FACE OF BEAM GUARD TO FIXED OBJECT	POST SPACING
3'-6"	3' - 1½"
4'-6"	6' - 3"

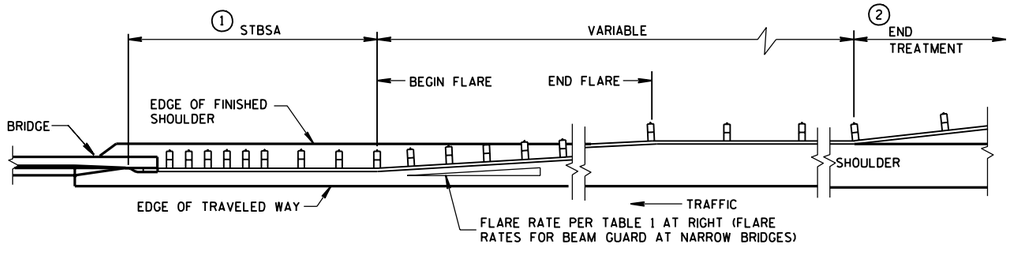


BEAM GUARD AT FULL WIDTH BRIDGES



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

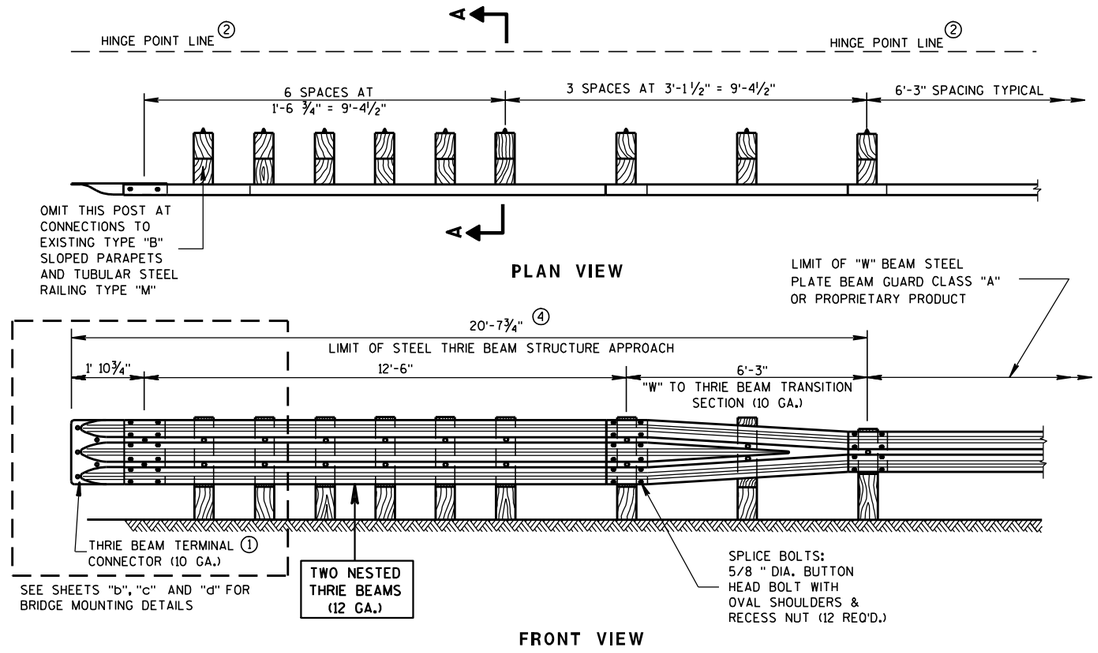
APPROVED
8-21-07 DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

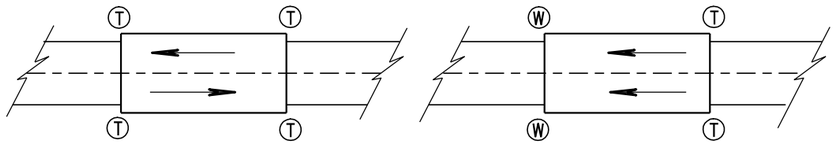
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S.D.D. 14 B 18-60

6

S.D.D. 14 B 18-60





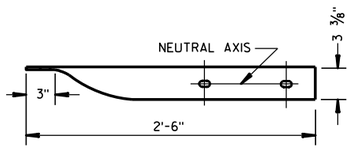
TWO WAY TRAFFIC

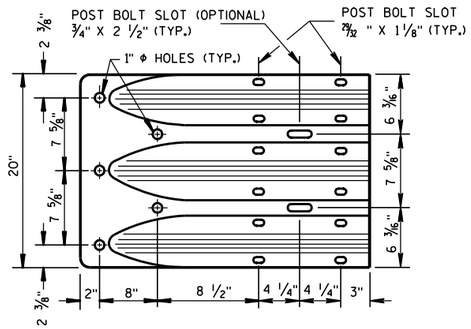
ONE WAY TRAFFIC

Ⓣ THRIE BEAM CONNECTION

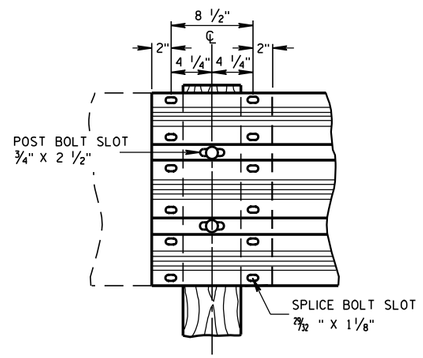
Ⓦ W-BEAM CONNECTION WHEN REQUIRED

TYPICAL LOCATIONS OF THRIE BEAM AND W-BEAM CONNECTIONS TO BRIDGE

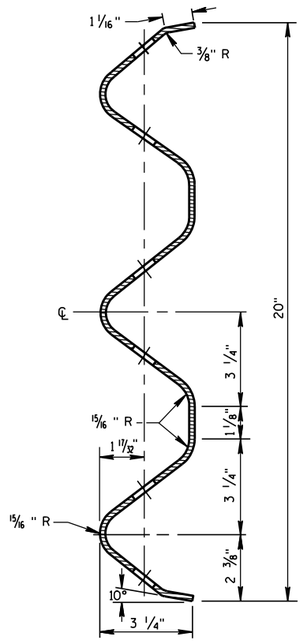




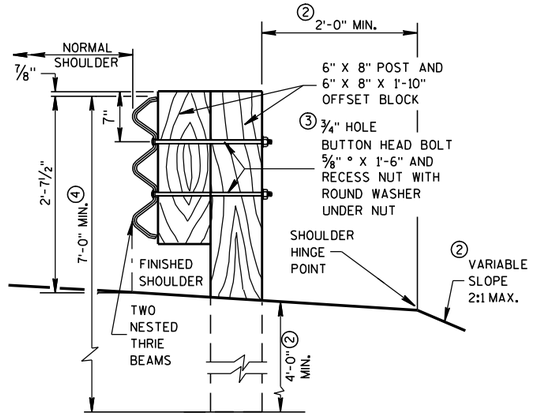
THRIE BEAM TERMINAL CONNECTOR



THRIE BEAM SPLICE



SECTION THRU THRIE BEAM RAIL ELEMENT



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.

FURNISH AND CONSTRUCT THRIE BEAM STRUCTURAL APPROACH ACCORDING TO THE REQUIREMENTS OF SECTION 614 OF THE STANDARD SPECIFICATIONS. THRIE BEAM SECTIONS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO DESIGNATION M180, CLASS "A", TYPE 2.

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 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 2 1/2 INCHES DEEP. CUT THE POSTS TO LENGTH AND PLACE IN THE HOLE. BACKFILL WITH MATERIAL EXCAVATED FROM THE HOLE AND COMPACT ADEQUATELY. (SEE SDD 14 B 15-4a).

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 BOLTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F-1554, GRADE 55. NUTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-563 DH.

④ ALL WOOD POSTS MUST BE 6" X 8" AND AT LEAST 7'-0" LONG.

STEEL THRIE BEAM STRUCTURE APPROACH

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

6-3-2010
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA

6

S.D.D. 14 B 20-9a

6

S.D.D. 14 B 20-9a

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	REFLECTIVE SHEETING TYPE H: 18" X 18"
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 EXTENDED VEHICLE RUNOUT PATH (EVRP), 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.

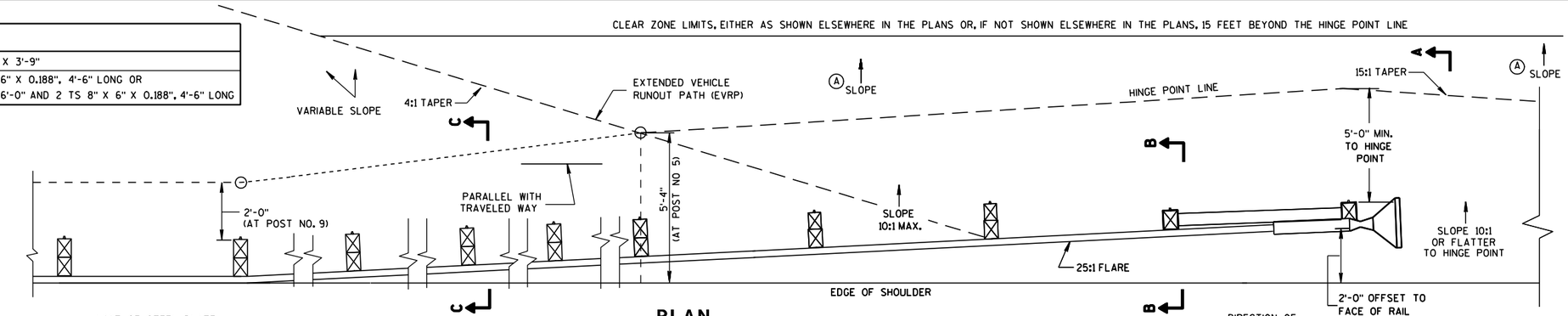
(F) SHEETING IS ATTACHED TO 0.040 ALUMINUM SHEET AND ATTACHED TO E.A.T. HEAD USING 4 STAINLESS STEEL SELF-TAPPING SCREWS. ONE SCREW PER CORNER OF E.A.T.

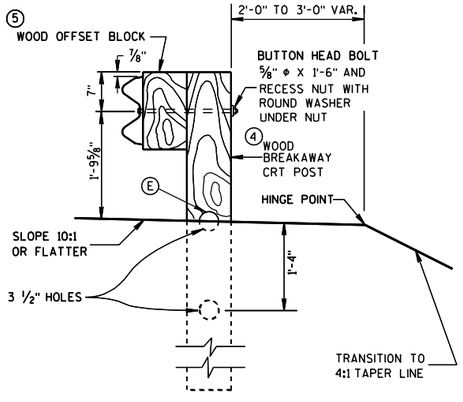
STEEL POSTS SHALL NOT BE ALLOWED FOR USE WITH ENERGY ABSORBING TERMINALS.

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.

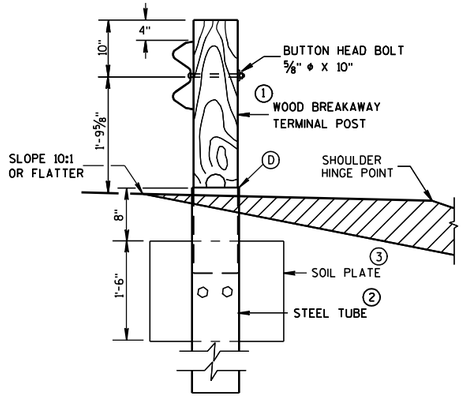
** SDD SHOWS 4 - 54 INCH STEEL TUBES WITH SOIL PLATES INSTALLED ON POST 1 AND POST 2. POST 3 AND 4 DO NOT NEED SOIL PLATES. AN ALTERNATIVE INSTALLATION WOULD CONSIST OF 2 - 72 INCH STEEL TUBES ON POST 1 AND POST 2 AND 54 INCH SOIL TUBES ON POSTS 3 AND 4. THE ALTERNATIVE INSTALLATION DOES NOT REQUIRE SOIL PLATES.





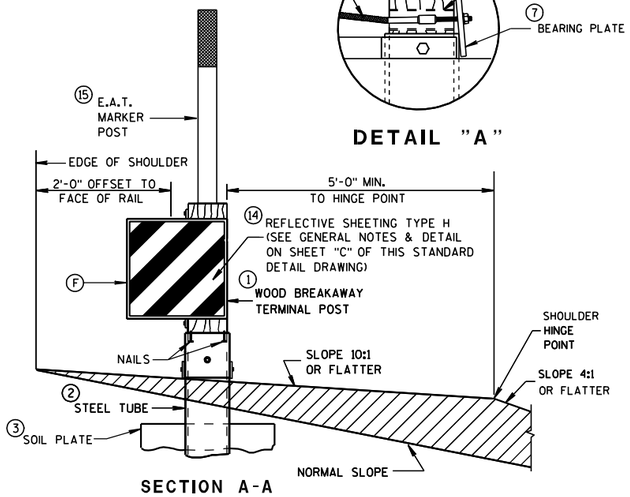
SECTION C-C

TYPICAL AT POST NOS. 6, 8



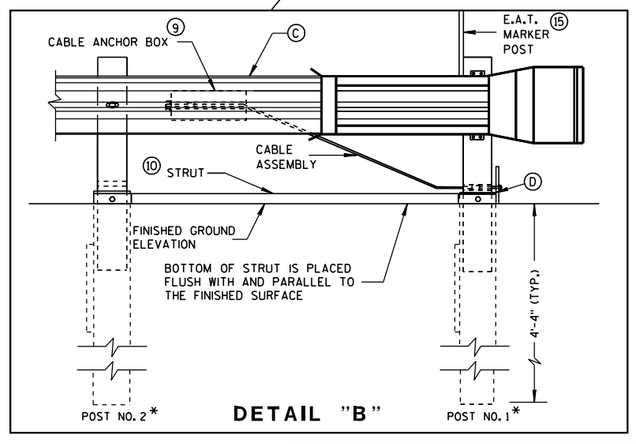
SECTION B-B

TYPICAL AT POST NO. 2*



SECTION A-A

TYPICAL AT POST NO. 1*



STEEL PLATE BEAM GUARD
ENERGY ABSORBING TERMINAL

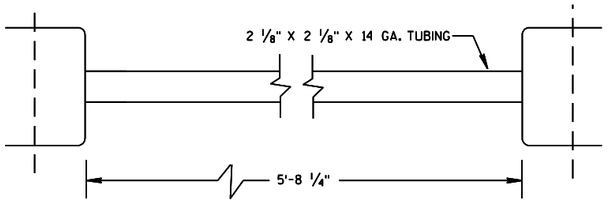
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

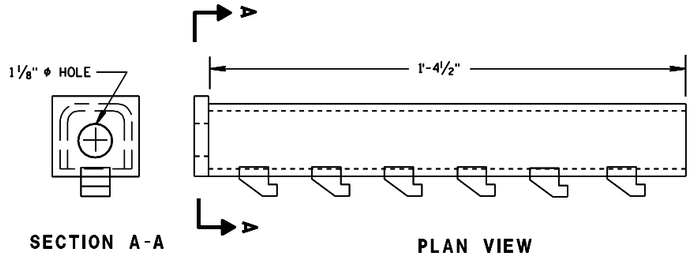
S.D.D. 14 B 24-7a

6

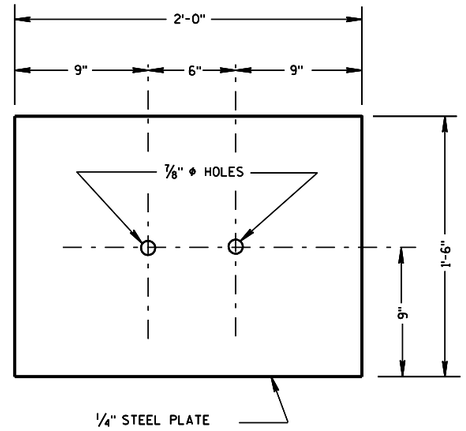
S.D.D. 14 B 24-7a



⑩ STRUT DETAIL (SKT-350)

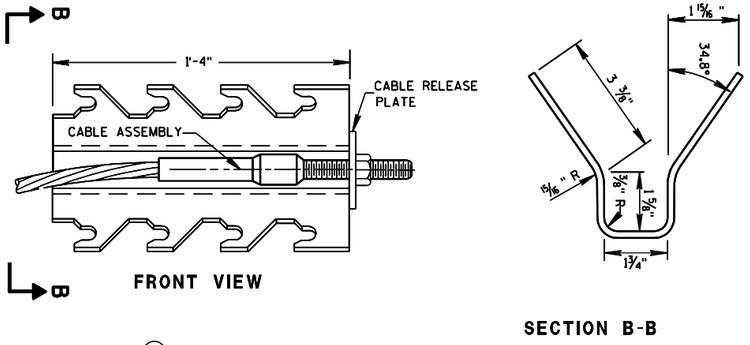


⑨ CABLE ANCHOR BOX (ET-2000/ET-2000 PLUS)



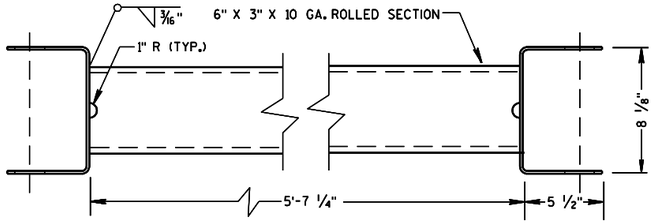
③ SOIL PLATE

(SKT-350, ET-2000/ET-2000 PLUS)



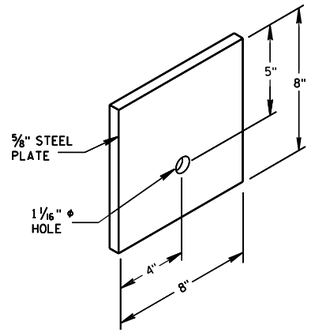
⑨ CABLE ANCHOR BOX (SKT-350)

(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

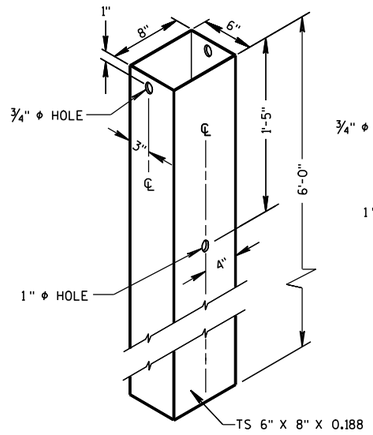
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S.D.D. 14 B 24-7b

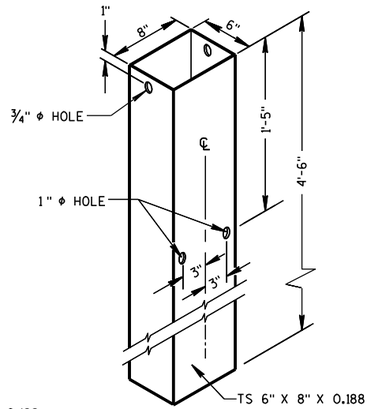
S.D.D. 14 B 24-7b

STEEL PLATE BEAM GUARD
ENERGY ABSORBING TERMINAL

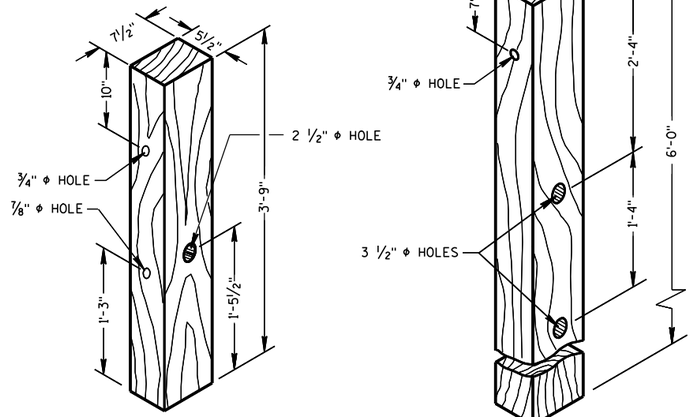
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



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

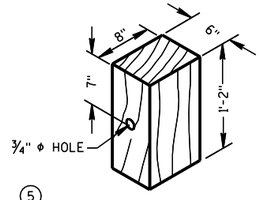
GENERAL NOTES

STEEL PLATE BEAM GUARD, ENERGY ABSORBING TERMINAL SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH, WHICH SHALL INCLUDE HARDWARE, STEEL PLATE BEAM GUARD, POSTS, REFLECTIVE SHEETING AND INSTALLATION AS SHOWN.

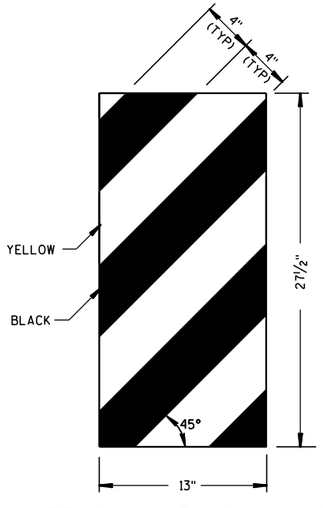
WHEN ROCK IS ENCOUNTERED DURING EXCAVATION, A 12 INCH DIA. POST HOLE EXTENDING 20 INCHES DEEP INTO THE ROCK MAY BE USED IF APPROVED BY THE ENGINEER. GRANULAR MATERIAL SHALL BE PLACED IN THE BOTTOM OF THE HOLE APPROXIMATELY 2 ½" INCHES DEEP TO PROVIDE DRAINAGE. THE SOIL TUBES SHALL BE FIELD CUT TO LENGTH, 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.

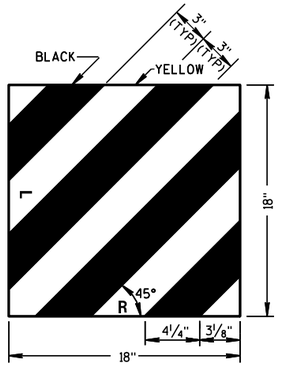
(G) ½" DIA. X 3" LAG BOLT WITH WASHER.



⑤ WOOD OFFSET BLOCK
REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2

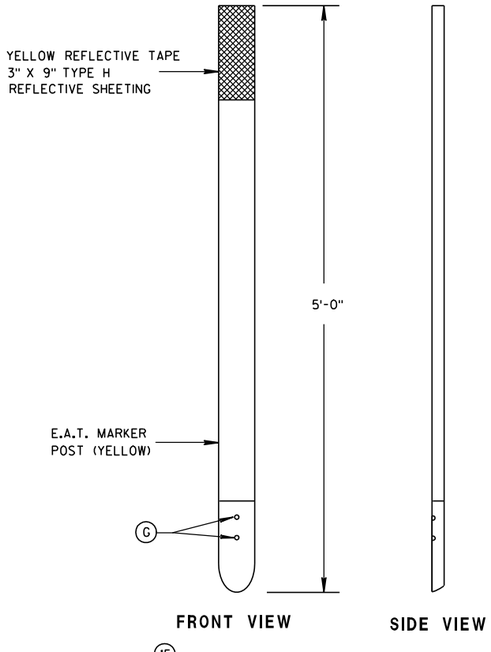


ET-2000 PLUS ONLY



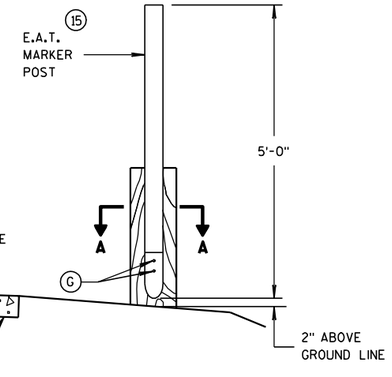
ET-2000 AND SKT-350

⑭ REFLECTIVE SHEETING DETAILS

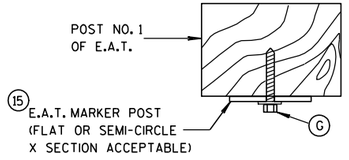


FRONT VIEW SIDE VIEW

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

4-12-10
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

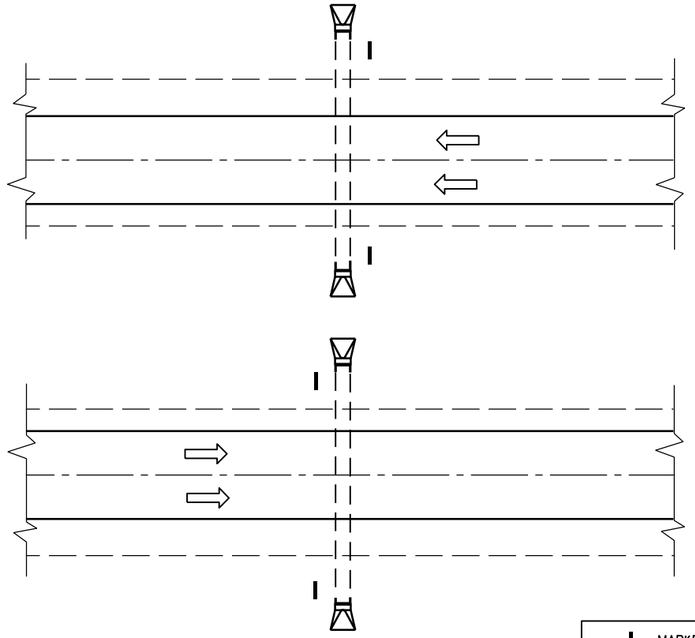
FHWA

6

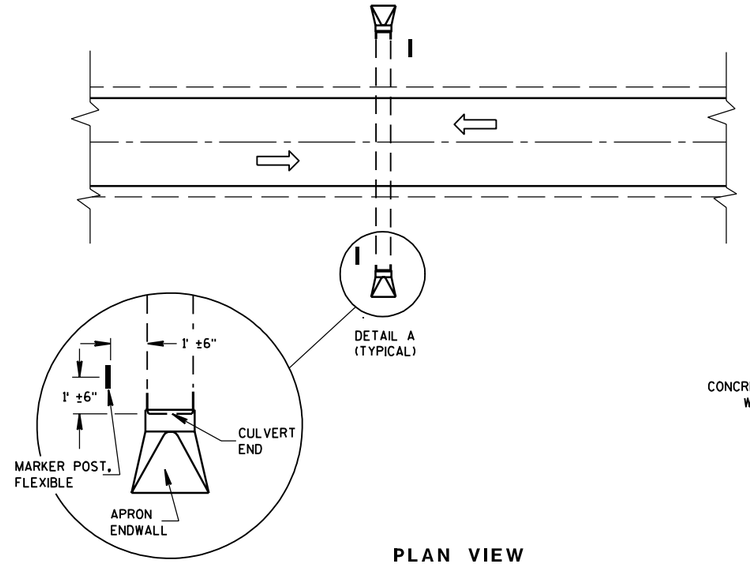
S.D.D. 14 B 24-7c

6

S.D.D. 14 B 24-7c



PLAN VIEW
DIVIDED HIGHWAY



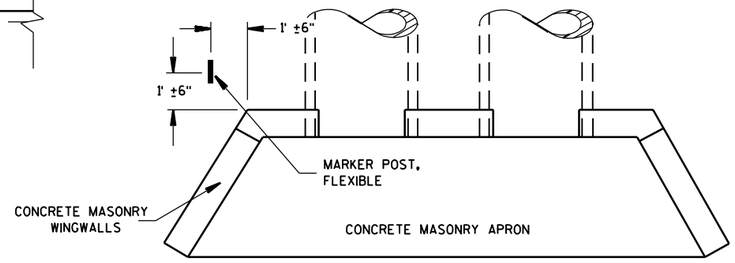
PLAN VIEW
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE
DIRECTION OF TRAFFIC FLOW

FLEXIBLE MARKER POST LOCATION

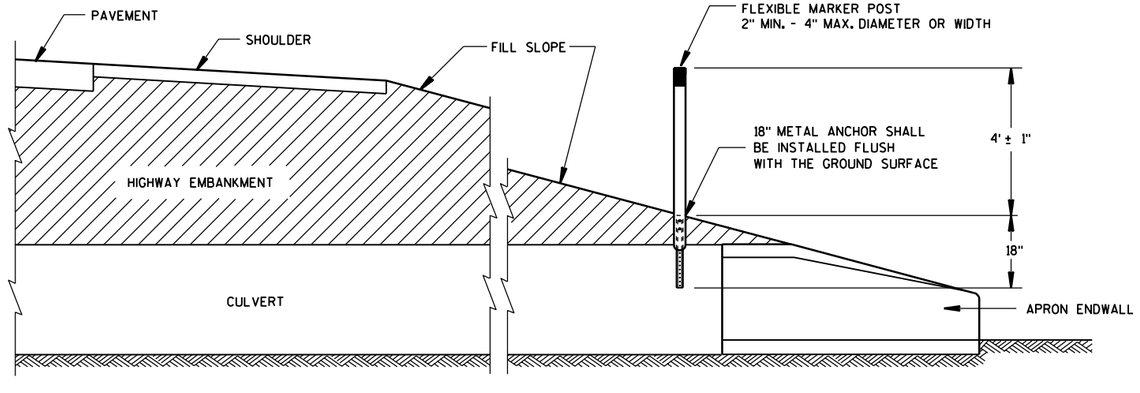
GENERAL NOTES

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.

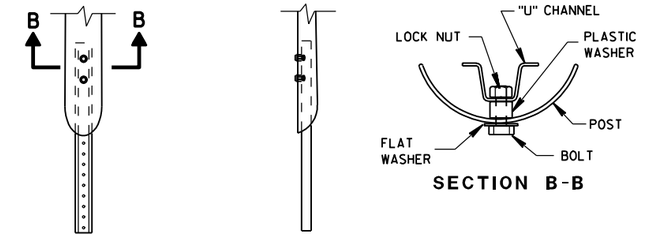


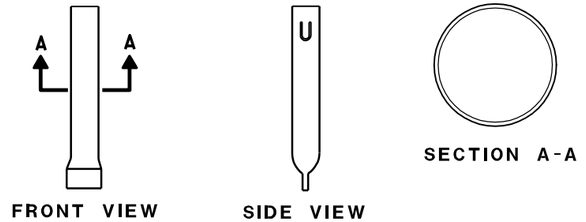
PLAN VIEW

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

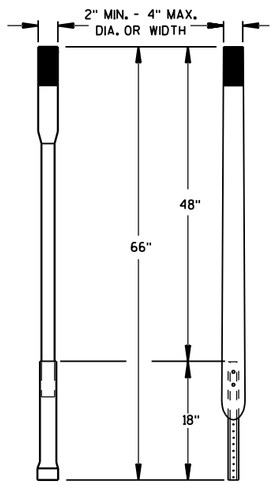


CROSS SECTION
FLEXIBLE MARKER POST





FLEXIBLE MARKER POST ANCHORS



ALTERNATE 1 ALTERNATE 2

FLEXIBLE MARKER POST

MARKER POST, FLEXIBLE, FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/1/98
DATE

CHIEF ROADWAY DEVELOPMENT ENGINEER

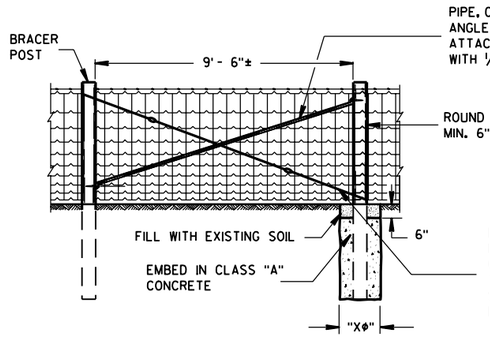
FHWA

6

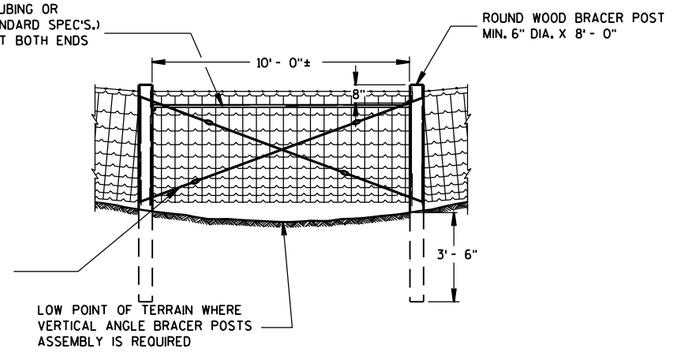
S.D.D. 15 A 3-1

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.

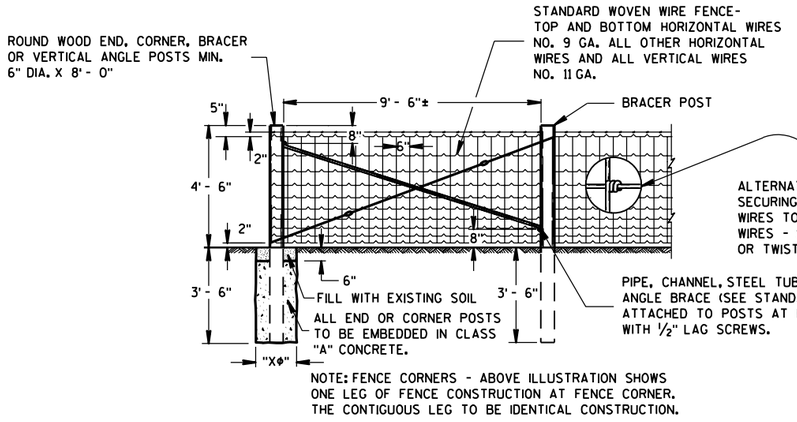
ILLUSTRATION SHOWS POSITION OF STANDARD STEEL BRACE, DOUBLE STRAND GALVANIZED WIRE, AND THE POST TO BE EMBEDDED IN CONCRETE WHEN WIRE FENCE IS INSTALLED FROM LEFT TO RIGHT. THE BRACES SHALL BE POSITIONED ON THE OPPOSITE DIAGONALS AND THE OPPOSITE POST SHALL BE EMBEDDED IN CONCRETE WHEN WIRE FENCE IS INSTALLED FROM RIGHT TO LEFT.



PULL OR STRETCHER POSTS ASSEMBLY

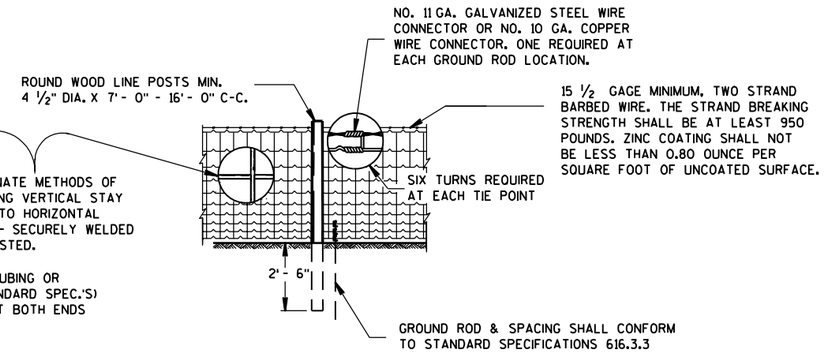


VERTICAL ANGLE BRACER POSTS ASSEMBLY



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

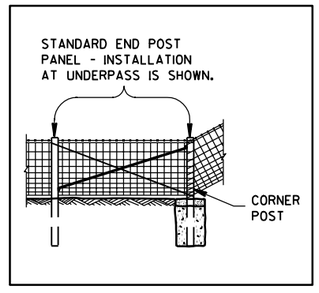
"X∅" = DIAMETER OF THE POST PLUS 12".

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.

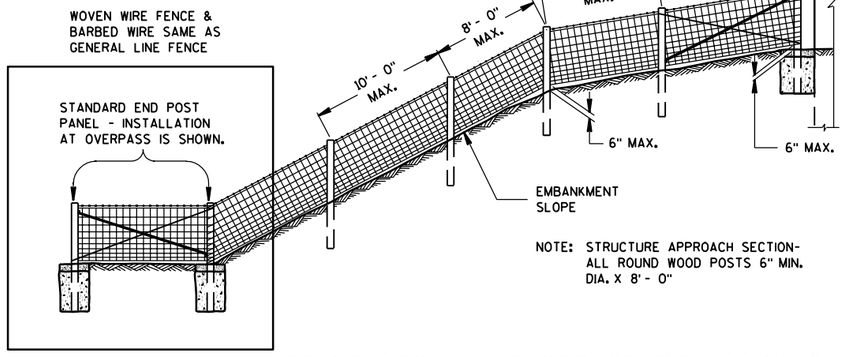
DO NOT STAPLE WIRE TIGHT TO THE LINE POSTS. ALLOW MOVEMENT OF WIRE FOR EXPANSION AND CONTRACTION. STAPLE ARRANGEMENT SHALL BE THE SAME FOR ALL OTHER POSTS EXCEPT THAT THEY SHALL BE DRIVEN TIGHT TO POSTS. ALL STAPLES SHALL BE 2" X 9 GAGE AND SHALL BE MANUFACTURED FROM GALVANIZED WIRE OR HOT DIP GALVANIZED 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

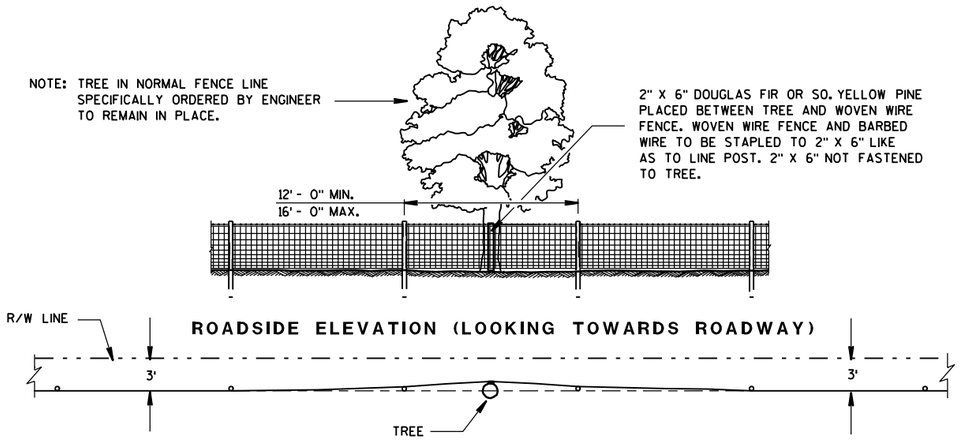
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

S.D.D. 15 B 1-8a

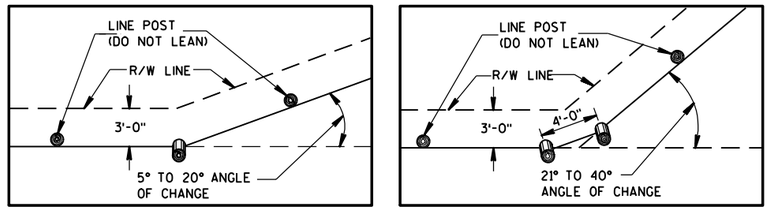
6

S.D.D. 15 B 1-8a



PLAN VIEW

FENCE DESIGN AT TREES REMAINING IN NORMAL FENCE LINE



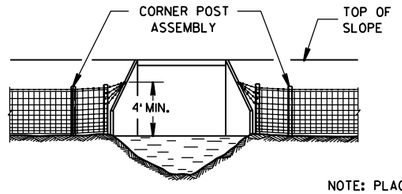
PLAN VIEW
SINGLE POST CORNER

PLAN VIEW
DOUBLE POST CORNER

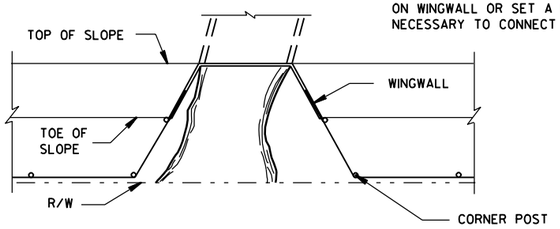
RIGHT OF WAY LINE CHANGE 40° AND LESS

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.

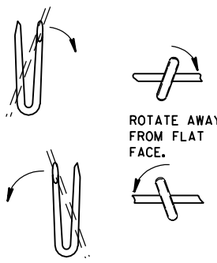
WHEN THE RIGHT OF WAY LINE CHANGE IS MORE THAN 40° USE THE CORNER OR STRETCHER POSTS ASSEMBLY.



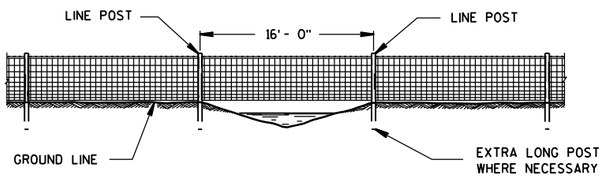
NOTE: PLACE A MINIMUM OF 4 STRANDS OF BARBED WIRE. 6" MAXIMUM CENTERS IN FAN SHAPE CONNECTED TO AN EYE BOLT ON WINGWALL OR SET A LONE POST WHEN NECESSARY TO CONNECT BARBED WIRE.



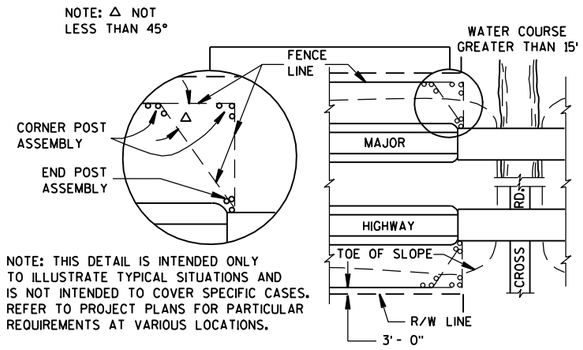
FENCE INSTALLATION TO WINGWALLS



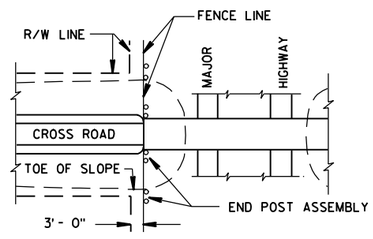
LINE POST



FENCE CONSTRUCTION OVER STREAM COURSES OF 15 FT. OR LESS IN WIDTH

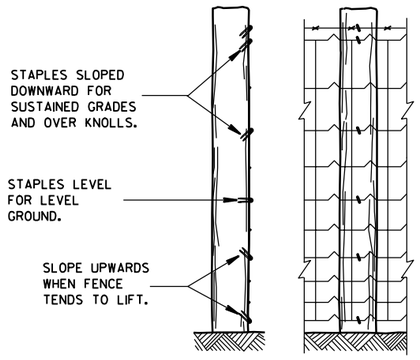


PLAN VIEW
MAJOR HIGHWAY OVERPASS OR STREAM COURSE CROSSING OF GREATER THAN 15 FT. IN WIDTH



PLAN VIEW
MAJOR HIGHWAY UNDERPASS

NOTE: WHEN POSTS ARE DRIVEN THE SMALL END SHALL BE DOWN.



END ELEVATION

FARM SIDE ELEVATION

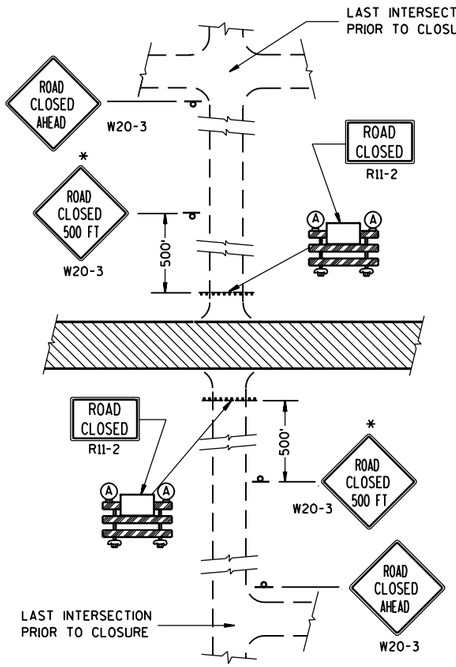
FENCE MOUNTING DETAIL

FENCE LOCATION AT STRUCTURES

FENCE WOVEN WIRE

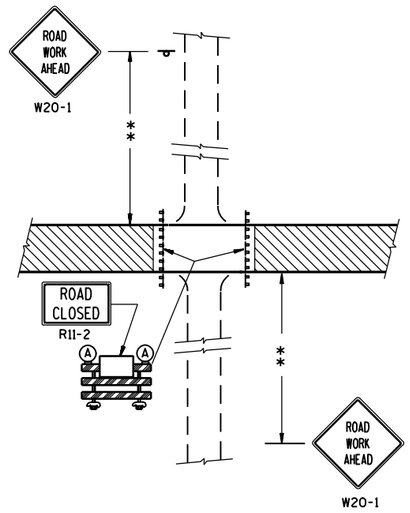
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4/4/08 DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA



DETAIL 1

(NO ACCESS TO PROJECT)

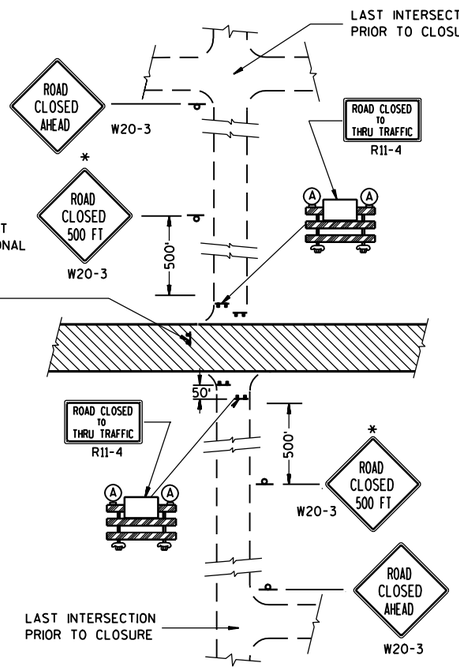


DETAIL 2

(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.

THE REFLECTIVE SHEETING USED ON R11-2, R11-3 AND R11-4 SIGNS SHALL COMPLY WITH SUBSECTION 637.2.2.2 OF THE STANDARD SPECIFICATIONS.

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

- POST MOUNTED WARNING SIGN
- TYPE III BARRICADES
- (A) TYPE "A" LOW INTENSITY FLASHING WARNING LIGHT (FOR NIGHT USE)
- WORK AREA

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
9-16-03
DATE

Thomas N. Notbohm for
CHIEF SIGNS AND MARKING ENGINEER

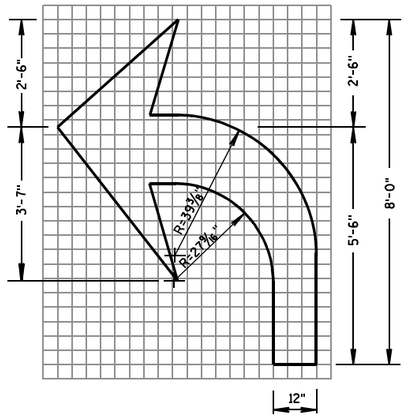
FHWA

6

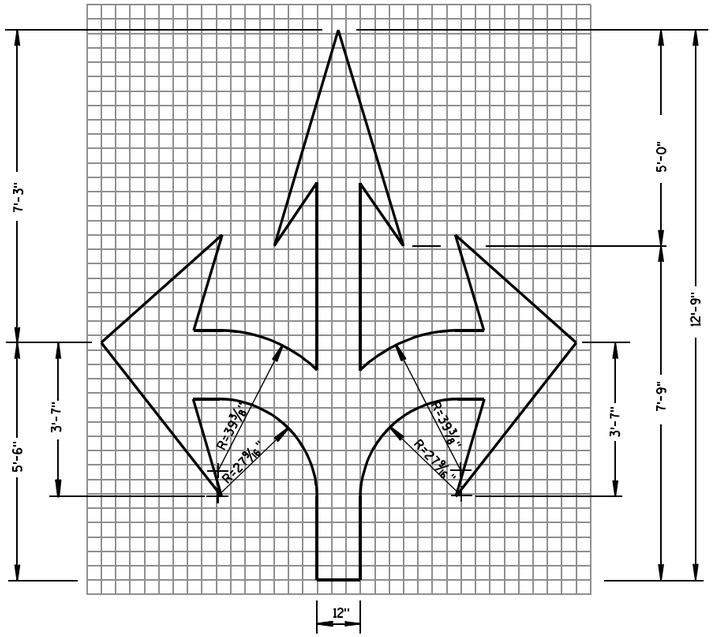
S.D.D. 15 C 3-1

6

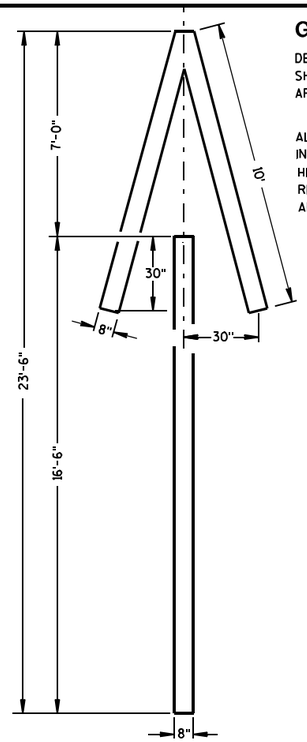
S.D.D. 15 C 3-1



TYPE 2



TYPE 6

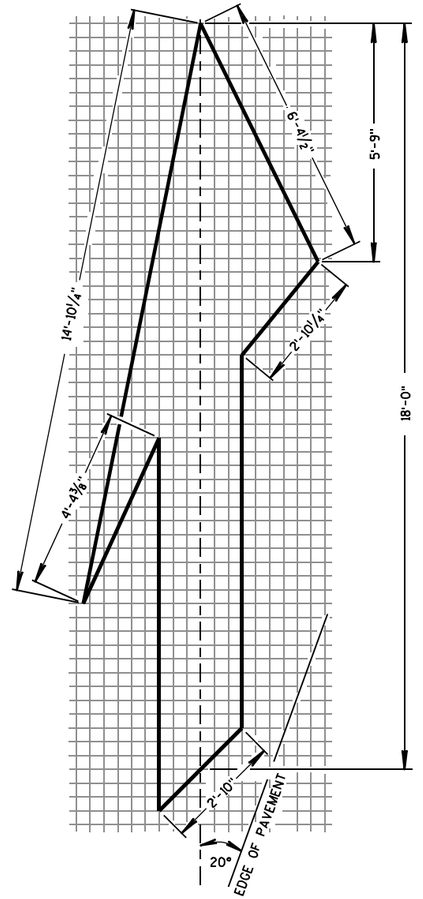


TYPE 4

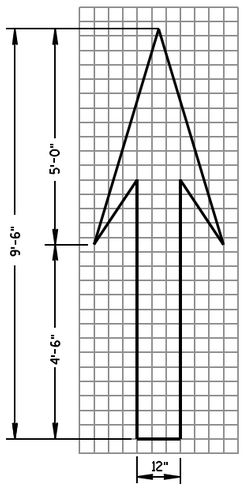
GENERAL NOTES

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.

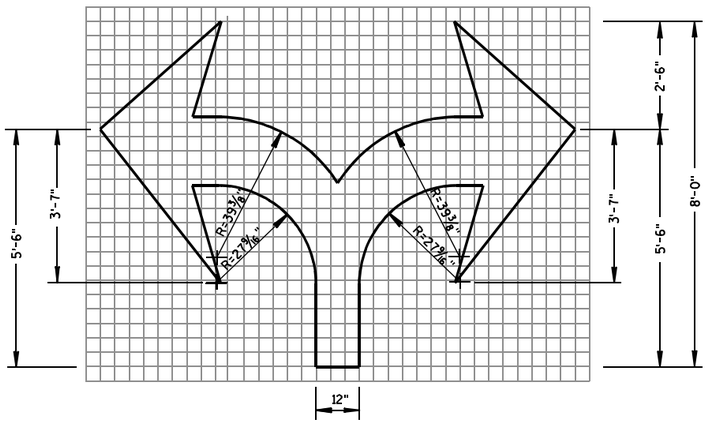
ALL LETTERS, ARROWS AND SYMBOLS SHALL BE IN CONFORMANCE WITH REQUIREMENTS INCLUDED IN "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKING" BOOK BY THE FEDERAL HIGHWAY ADMINISTRATION. ALL LETTERS, ARROWS AND SYMBOLS SHALL BE WHITE AND REFLECTORIZED. SMALL DIFFERENCES IN DIMENSIONS WITHIN THE TOLERANCES OF THAT BOOK ARE ACCEPTABLE.



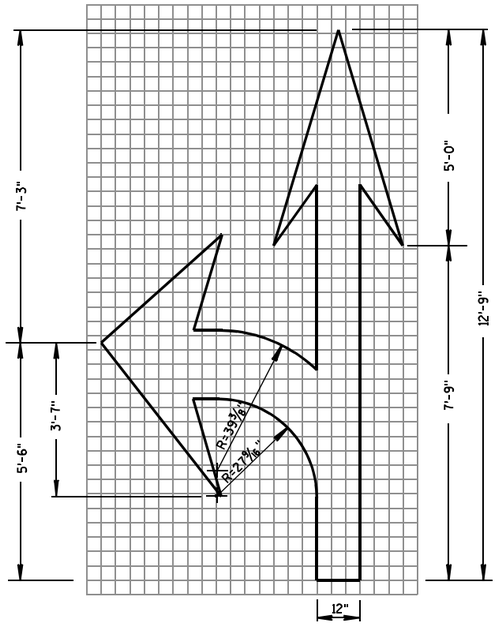
TYPE 5 LANE DROP ARROW



TYPE 1



TYPE 7



TYPE 3

PAVEMENT MARKING ARROWS

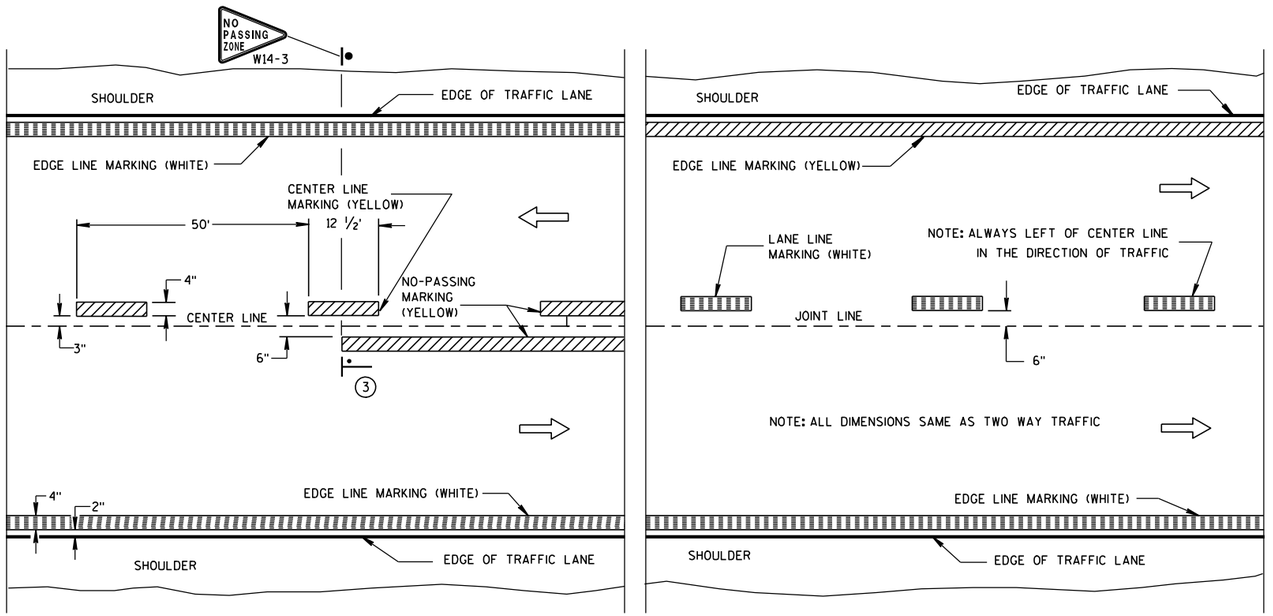
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
5/13/10 — DATE
/S/ Thomas N. Notbohm — STATE TRAFFIC ENGINEER OF DESIGN
FHWA

S.D.D. 15 C 7-11d

6

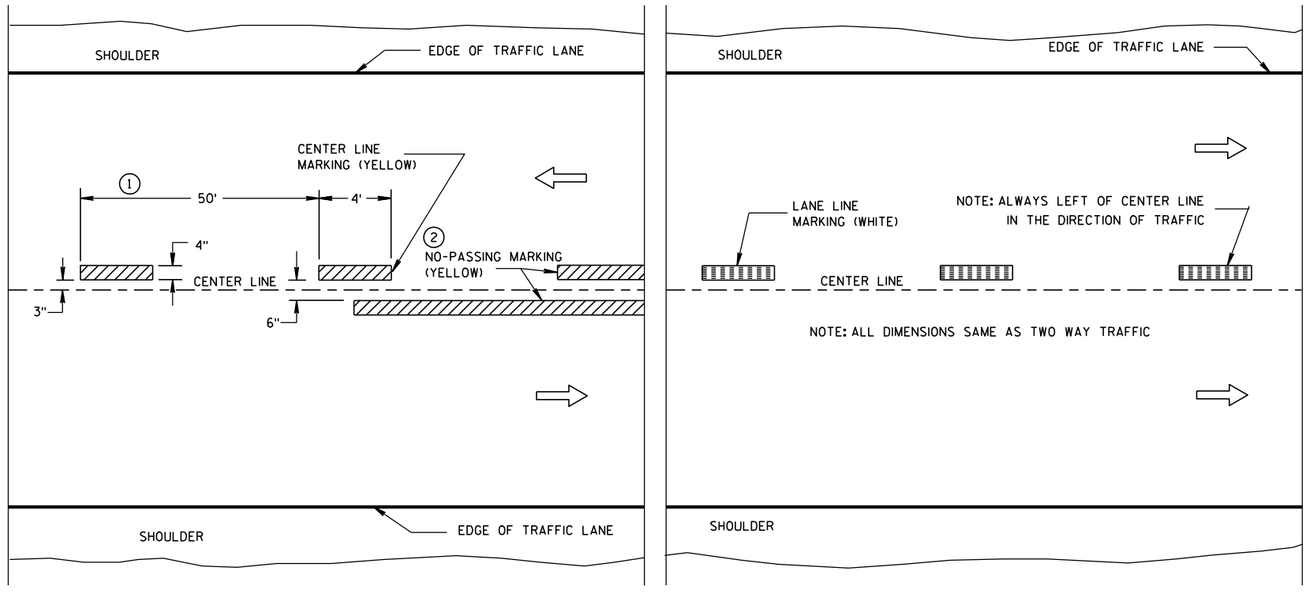
S.D.D. 15 C 7-11d



TWO WAY TRAFFIC

ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC

ONE WAY TRAFFIC

TEMPORARY (INTERMEDIATE) PAVEMENT MARKING

(SHOWS CYCLE FOR TEMPORARY CENTER LINE OR TEMPORARY LANE LINE MARKING)

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

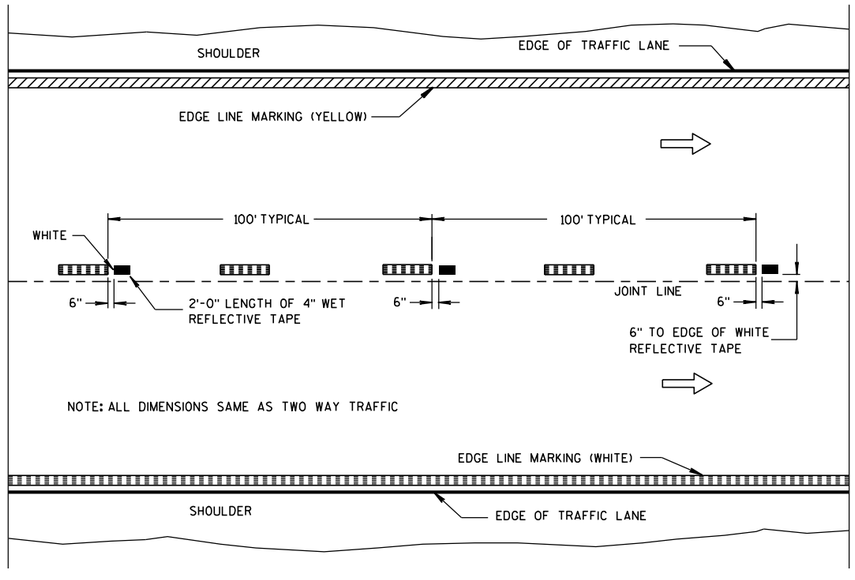
① HALF CYCLE LENGTHS (25'±) WITH 2' MINIMUM STRIPE LENGTHS SHALL BE PROVIDED ON ROADWAYS (INCLUDING TEMPORARY TRAVELED WAYS) WITH REVERSE CURVATURE, CURVATURE OF OVER 5 DEGREES OR WHEN DIRECTED BY THE ENGINEER TO MARK UNUSUAL ALIGNMENT OF THE TRAVELED WAY.

② NO PASSING ZONE TEMPORARY PAVEMENT MARKING IS REQUIRED TO BE PLACED, WHERE APPROPRIATE, ALONG WITH CENTERLINE TEMPORARY PAVEMENT MARKING WHEN A SAME DAY PERMANENT PAVEMENT MARKING ITEM IS INCLUDED IN THE CONTRACT.

③ NO PASSING ZONE MARKINGS ARE PLACED ACCORDING TO "T" MARKINGS. IF EXISTING NO PASSING ZONE W14-3 SIGNS ARE BEYOND 50 FEET IN EITHER DIRECTION, THE SIGNS SHALL BE MOVED TO THE "T" MARKINGS.

NOTE

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL



WET REFLECTIVE TAPE SUPPLEMENT TO SPRAYED OR NON WET REFLECTIVE TAPE LANE LINE

LEGEND

"T" MARKING

POST MOUNTED SIGN

PAVEMENT MARKING
(MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

5-13-10
DATE

/S/ Thomas N. Notbohm
STATE TRAFFIC ENGINEER OF DESIGN

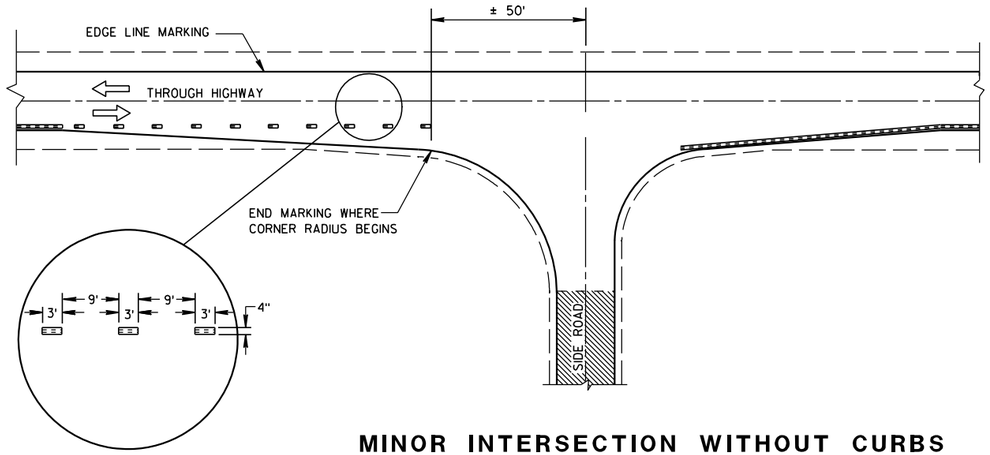
FHWA

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S.D.D. 15 C 8-13a

6

S.D.D. 15 C 8-13a



MINOR INTERSECTION WITHOUT CURBS

GENERAL NOTES

EDGE LINES SHALL BE OMITTED THROUGH INTERSECTIONS. EDGE LINES SHALL BE CONTINUED THROUGH DRIVEWAYS.

(1) WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.

(2) WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.

(3) ALTERNATIVE MARKING SHALL BE PROVIDED WHEN SPECIFIED IN THE CONTRACT. TYPICAL SITUATIONS WHERE THIS MARKING MAY BE REQUIRED ARE WHERE THE INTERSECTION IS ON A SHARP HORIZONTAL CURVE OR CREST VERTICAL CURVE IN AN UNLIGHTED AREA SUCH THAT THE EDGE LINE MAY BE MISLEADING TO THE MOTORIST OR DISAPPEAR FROM SIGHT.

(4) THE EDGE LINE IN THE TAPER AREAS OF THE BYPASS LANE AND THE BYPASS LANE SHALL BE LOCATED 1-FOOT FROM EDGE OF PAVEMENT TO THE OUTSIDE EDGE OF EDGE LINE.

(5) BARRIER LINE ENDS AT SIDE ROAD PAVEMENT/SURFACE EDGE EXTENSION.

(6) BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.

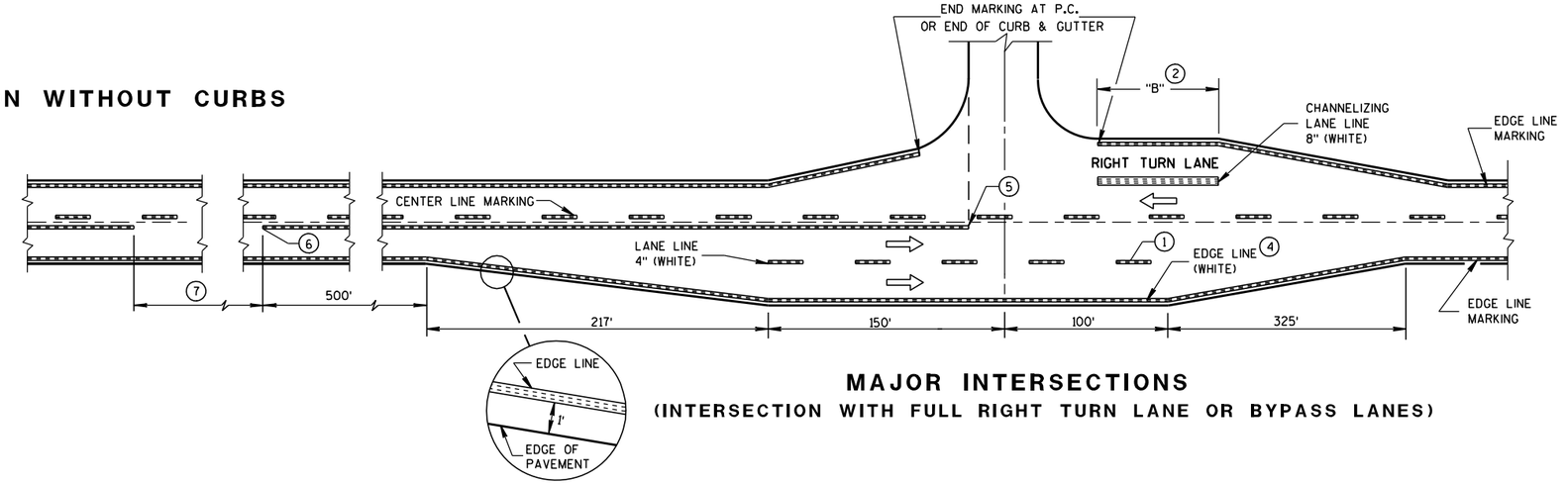
(7) IF THE DISTANCE BETWEEN 2 SUCCESSIVE NO-PASSING ZONES IS LESS THAN THE MINIMUM DISTANCE BETWEEN ZONES, CONNECT THE 2 ZONES.

(8) 3' LINE 9' GAP, EXCEPT RETRACE THE EXISTING LINE - GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.

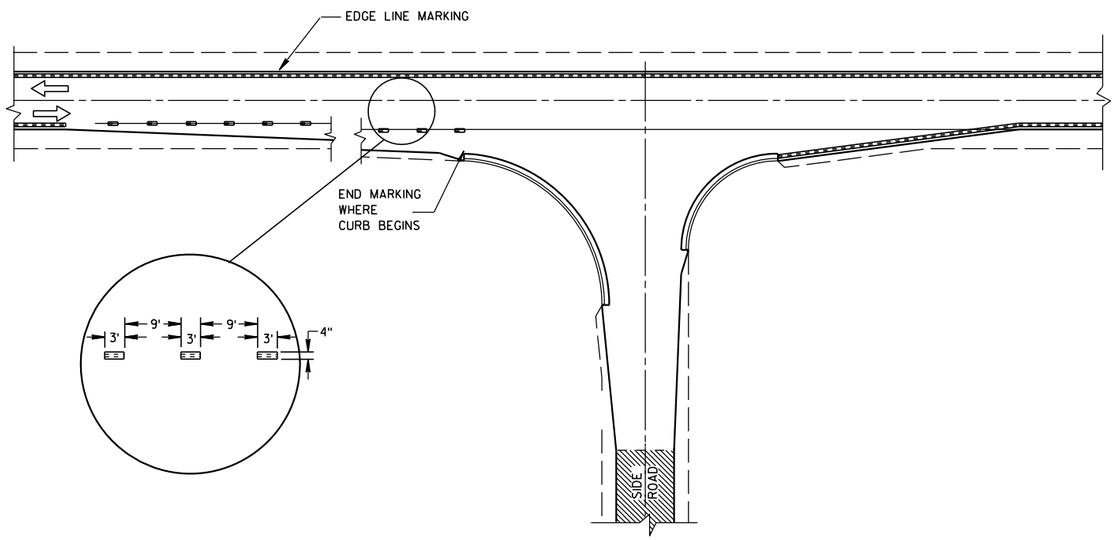
ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

(7)

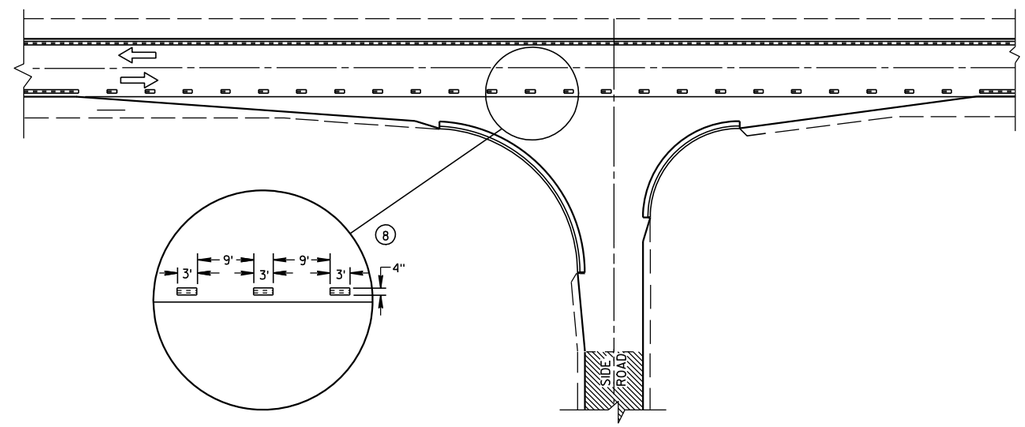
POSTED SPEED (MPH)	MINIMUM DISTANCE BETWEEN ZONES (FEET)
25 - 30	528
35 - 40	528
45 - 50	686
55	792



MAJOR INTERSECTIONS
(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANES)



MINOR INTERSECTION WITH CURBS
(TYPICAL MARKING)



MINOR INTERSECTION WITH CURBS
(3) (FOR SPECIAL CONDITIONS AS SPECIFIED)

PAVEMENT MARKING
(INTERSECTIONS)

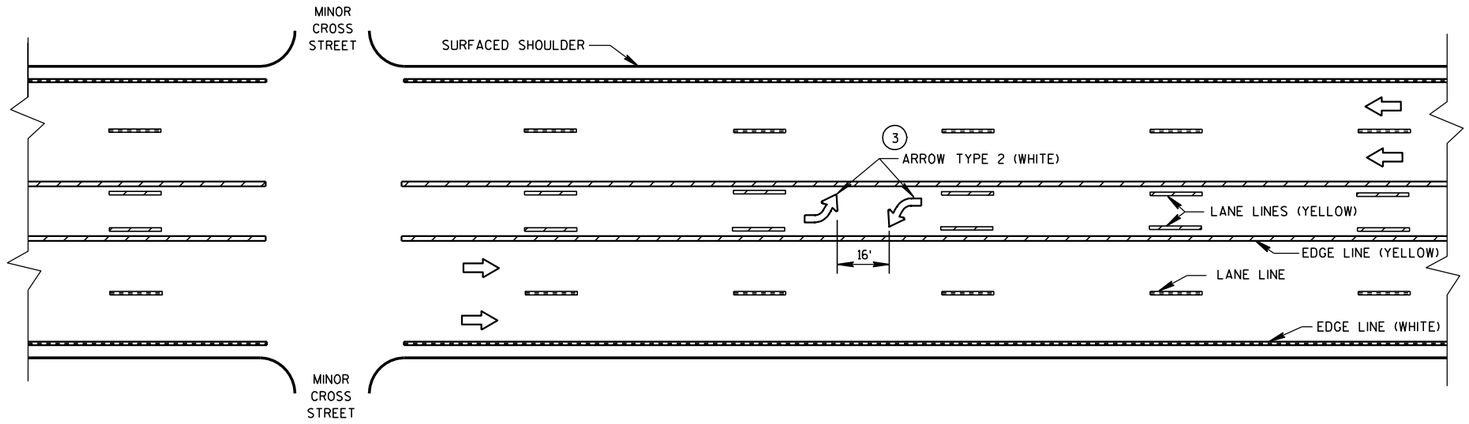
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

S.D.D. 15 C 8-13b

6

S.D.D. 15 C 8-13b

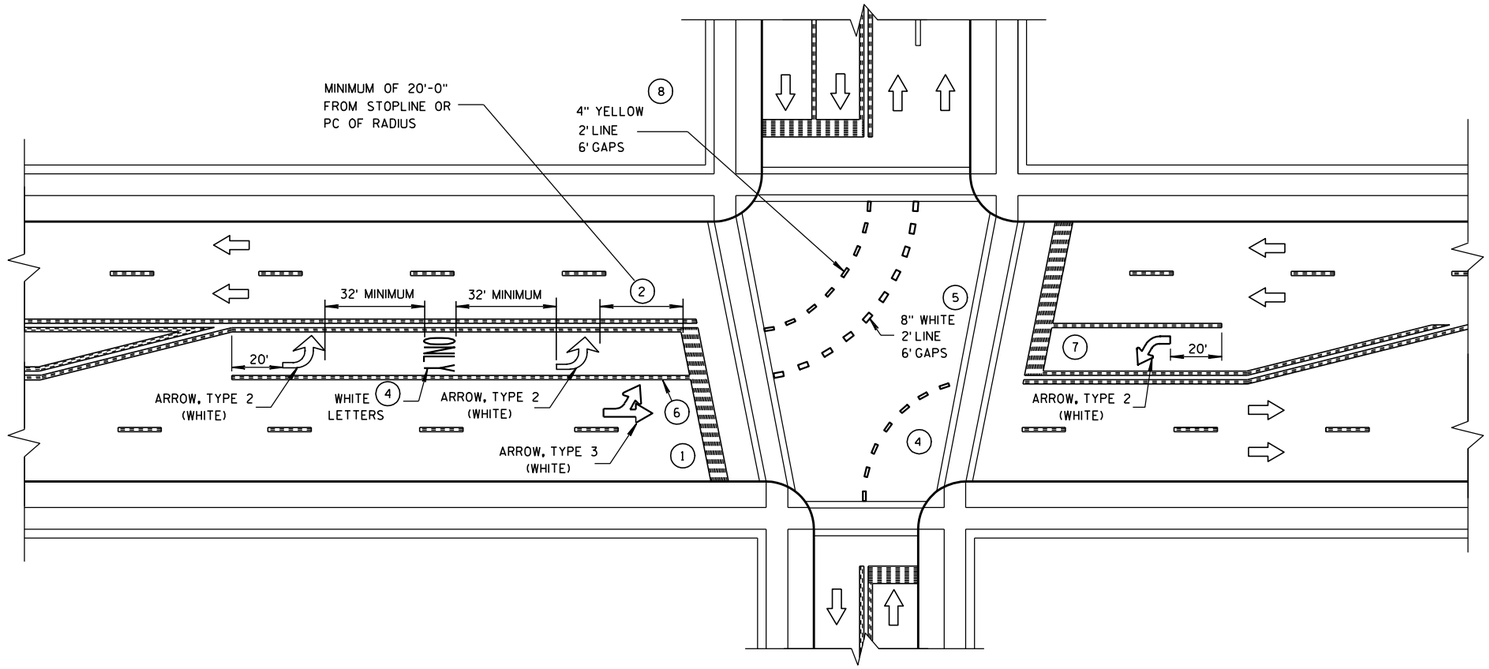


TWO WAY LEFT TURN LANE

GENERAL NOTES

1. STOP BAR IS REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.
2. DISTANCE MAY BE ADJUSTED TO ACCOMODATE SHORT LEFT TURN LANES. AS APPROVED BY THE ENGINEER.
3. A SET OF ARROWS IS REQUIRED EVERY 400' OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
4. ADD EXTRA ARROW AND ONLY PER 160' OR WHEN ON A CURVE.
5. 8" WHITE WITH 2' LINE 6' GAPS FOR DUAL TURN LANE.
6. 8" WHITE
7. ADD SECOND ARROW WHEN TURN BAY IS GREATER THAN OR EQUAL TO 108'.
8. REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.

NOTE:
ARROW SYMBOL (⇨)
SHOWS DIRECTION OF TRAVEL



PAVEMENT MARKING
(LEFT TURN LANE)

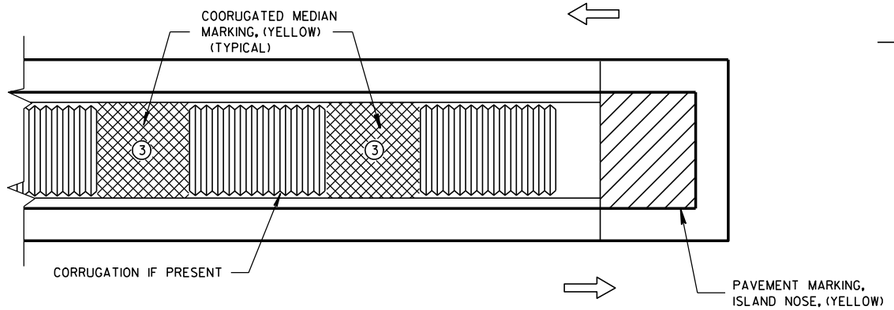
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

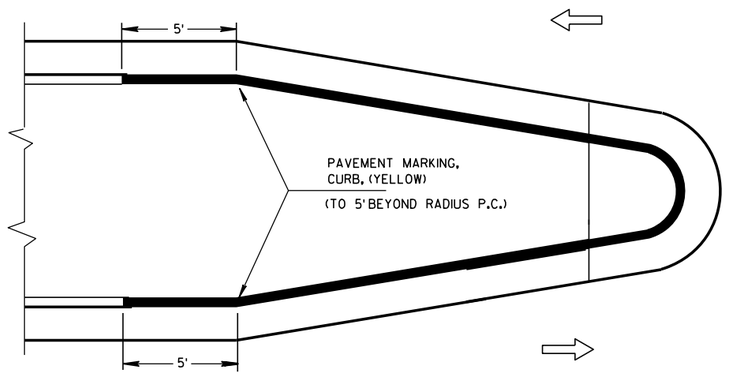
S.D.D. 15 C 8-13e

6

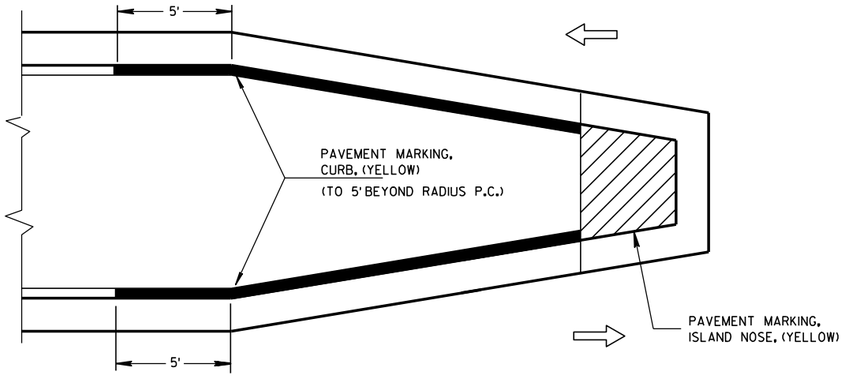
S.D.D. 15 C 8-13e



MEDIAN ISLAND WITH SQUARE BLUNT NOSE

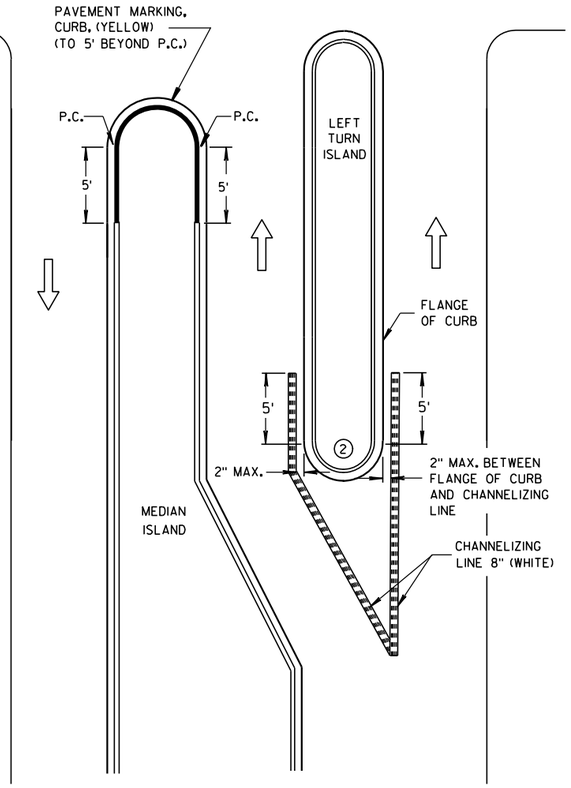


MEDIAN ISLAND WITH ROUND BLUNT NOSE

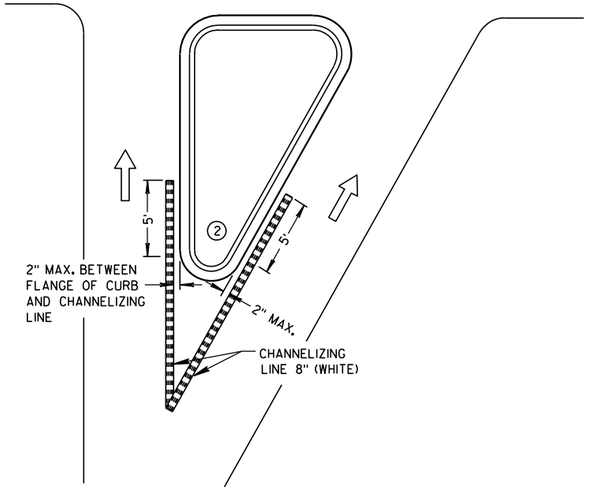


MEDIAN ISLAND WITH SLOPED NOSE

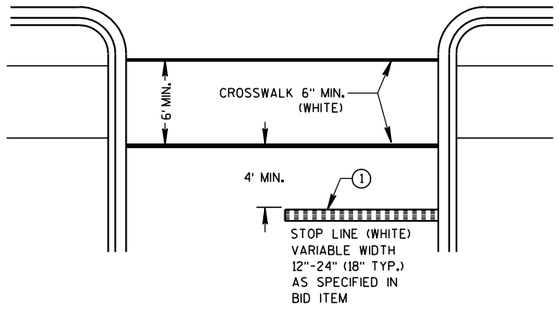
TYPICAL PLACEMENT OF PAVEMENT MARKING ON MEDIAN ISLANDS



LEFT TURN & MEDIAN ISLAND



RIGHT TURN ISLAND



STOP LINE AND CROSSWALK

GENERAL NOTES

1. STOP LINE IS REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.
2. DO NOT MARK CURB NOSES THAT SEPARATE LANES OF TRAFFIC TRAVELING IN THE SAME DIRECTION.
3. 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.

LEGEND

- ISLAND NOSE MARKING
- CURB MAKING
- CORRUGATED MEDIAN MARKING
- DIRECTION OF TRAVEL

PAVEMENT MARKING (ISLANDS, STOP LINE & CROSS WALK)

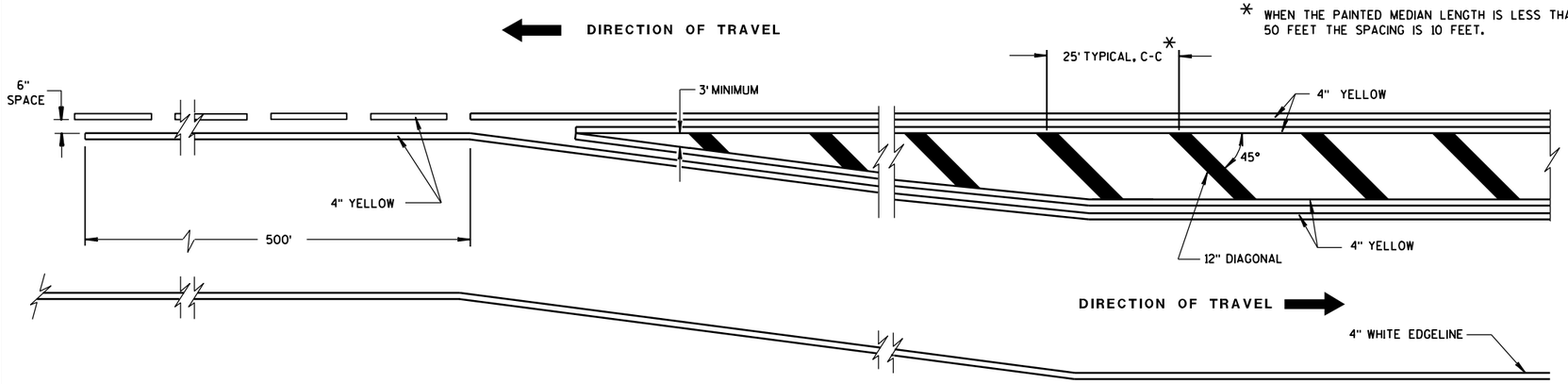
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

S.D.D. 15 C 8-13f

6

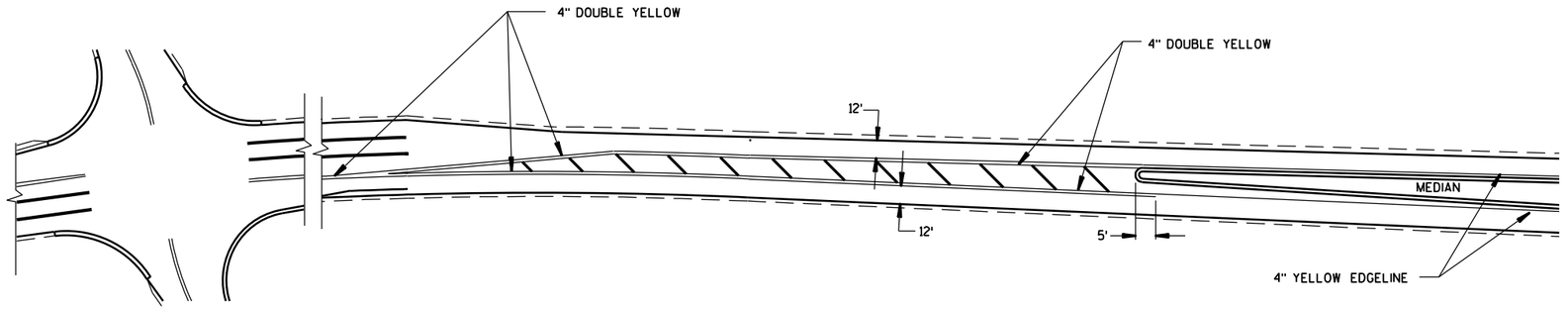
S.D.D. 15 C 8-13f



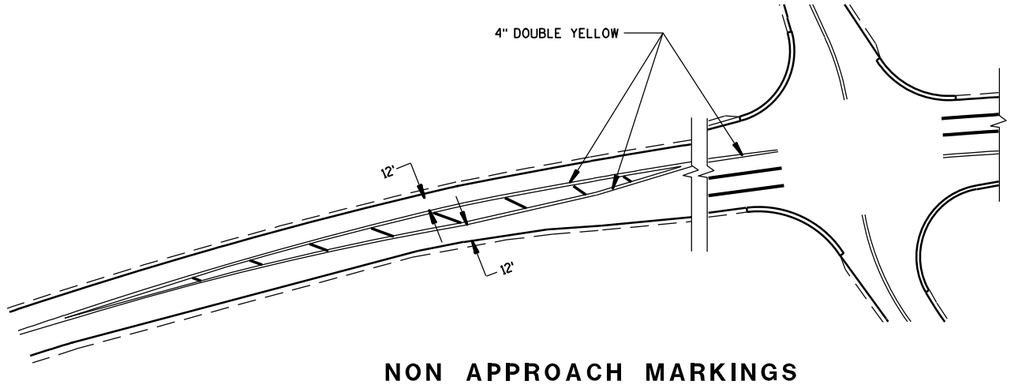
MEDIAN ISLAND DETAIL

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. Notbohm STATE TRAFFIC ENGINEER OF DESIGN
FHWA	

6

S.D.D. 15 C 18-3

6

S.D.D. 15 C 18-3

GENERAL NOTES

SIGNING AND MARKING IS SHOWN AS TYPICAL PLACEMENT. FIELD CONDITIONS MAY DICTATE CHANGES IN SIGNING AND MARKING PLACEMENT.

A DISTANCE DEPENDENT ON SPEED (SEE TABLE)

(1) WRONG WAY PREVENTION SIGNS ARE DISCUSSED IN T G M 2-15-12

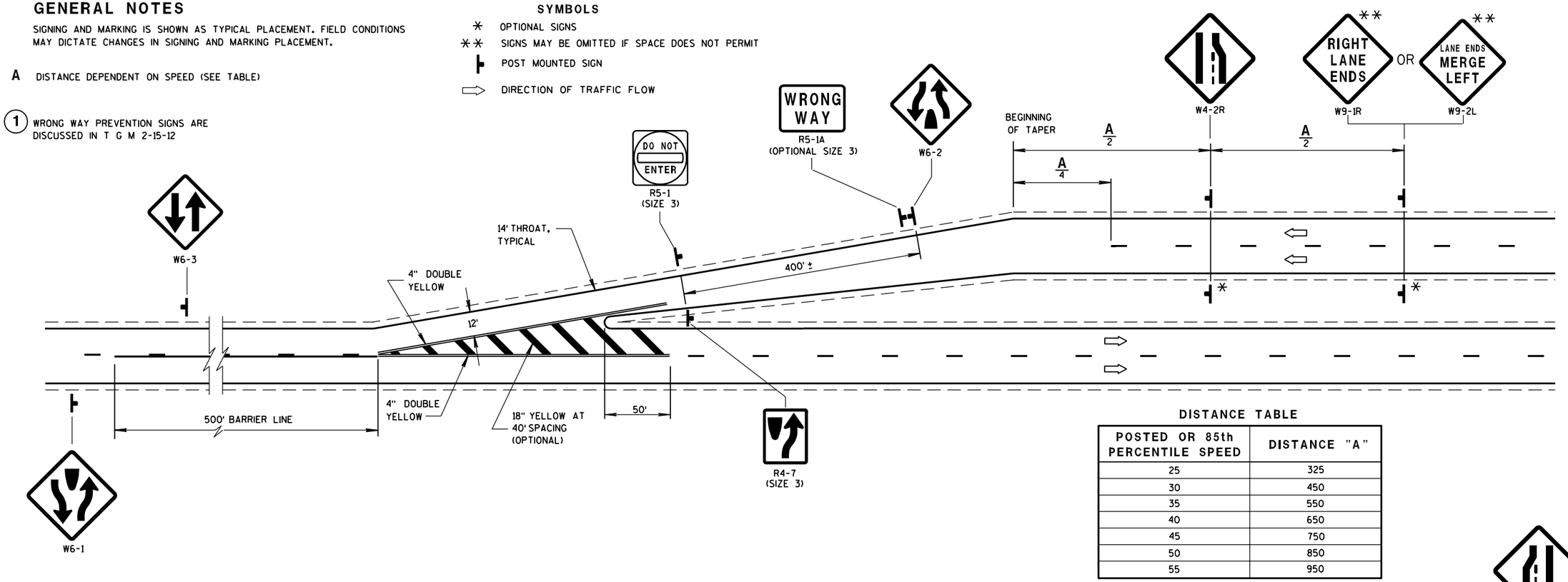
SYMBOLS

* OPTIONAL SIGNS

** SIGNS MAY BE OMITTED IF SPACE DOES NOT PERMIT

POST MOUNTED SIGN

DIRECTION OF TRAFFIC FLOW



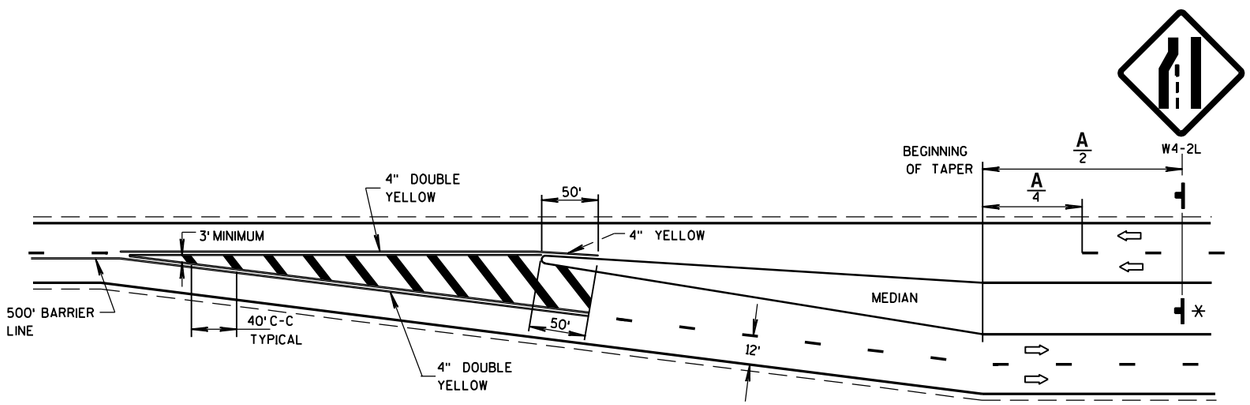
DISTANCE TABLE

POSTED OR 85th PERCENTILE SPEED	DISTANCE "A"
25	325
30	450
35	550
40	650
45	750
50	850
55	950

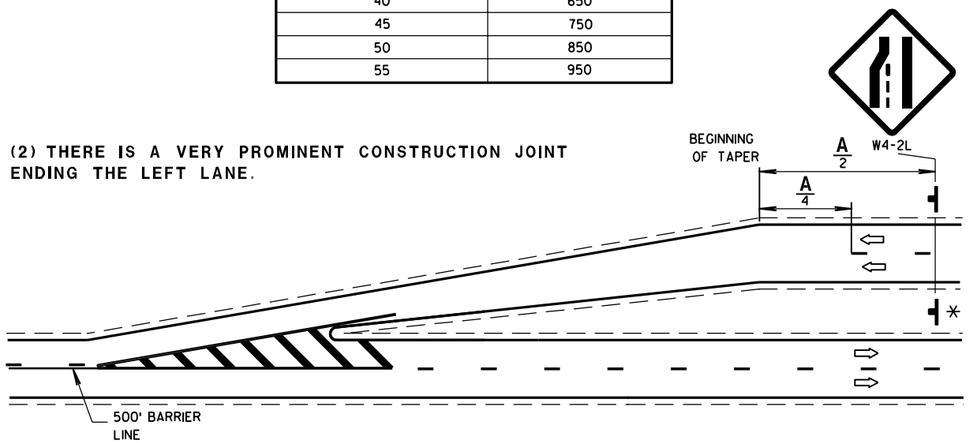
USE W4-2L IF :

(1) THE LEFT LANE IS PUSHED TO THE RIGHT:

OR



(2) THERE IS A VERY PROMINENT CONSTRUCTION JOINT ENDING THE LEFT LANE.



SIGNING AND MARKING FOR TWO LANE TO FOUR LANE DIVIDED TRANSITIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

4/7/08 — DATE

/S/ Thomas N. Notbohm — STATE TRAFFIC ENGINEER OF DESIGN

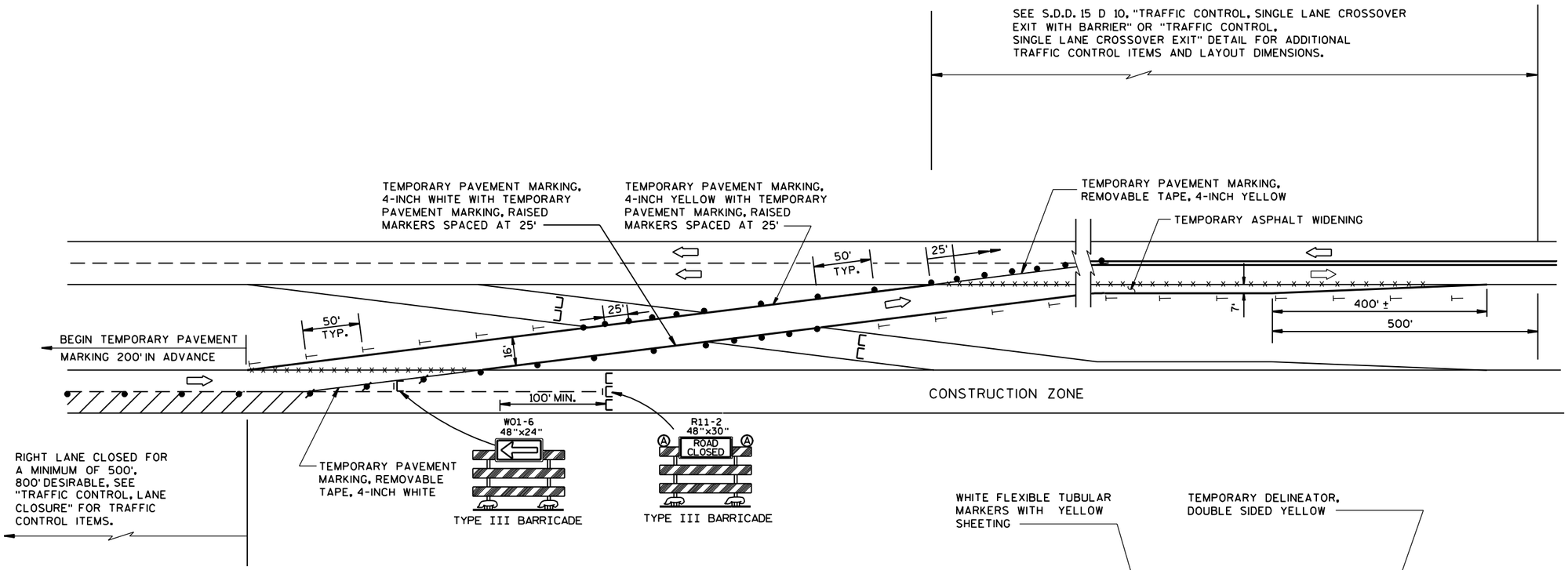
FHWA

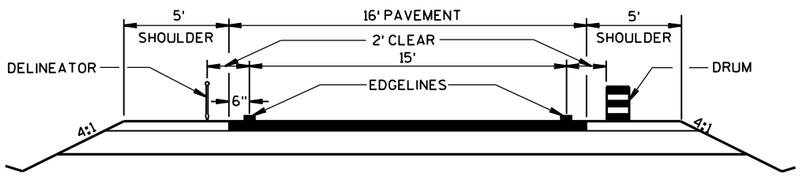
6

S.D.D. 15 C 21-3

6

S.D.D. 15 C 21-3





TYPICAL CROSSOVER ROADWAY DIMENSIONS

LEGEND

- ⊏/I⊏ 8' TYPE III BARRICADE WITHOUT/WITH ATTACHED SIGN
- DRUM WITH WARNING LIGHTS, TYPE C
- DRUM
- TEMPORARY DELINEATOR (STEEL POST W/SINGLE DELINEATOR) COLOR OF DELINEATOR SHALL MATCH THE COLOR OF THE RESPECTIVE EDGELINE PAINT
- Ⓐ WARNING LIGHT, TYPE A
- REMOVING PAVEMENT MARKINGS
- TEMPORARY DELINEATOR (DOUBLE SIDED)
- FLEXIBLE TUBULAR MARKER AND BASE
- DIRECTION OF TRAFFIC

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.

THE SPACING BETWEEN PROPOSED SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) DISTANCE TO EXISTING SIGNS.

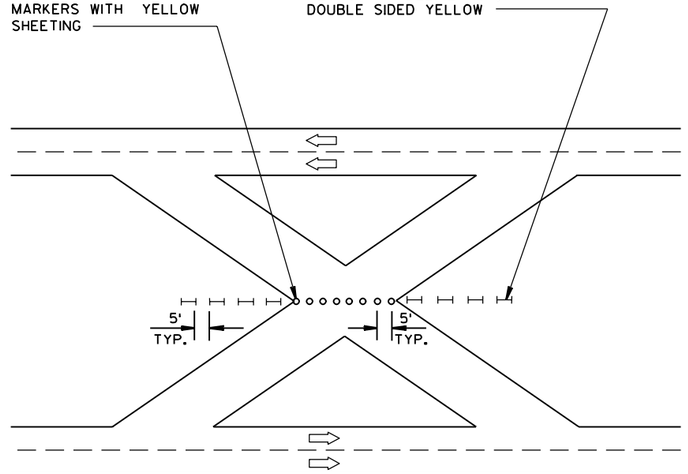
TEMPORARY PAVEMENT MARKING REMOVABLE TAPE SHALL BE USED WHEN CROSSING PERMANENT ROADWAY SURFACES THAT WILL REMAIN AFTER USE OF CROSSOVER AND TEMPORARY PAVEMENT MARKING WHERE USED.

ALL SIGNS ARE 48"×48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON "COVERED" OR "DOWNED" SIGNS.

REVERSE DEVICES WHEN OTHER LEG OF CROSSOVER IS IN USE.



PROTECTION OF CROSSOVER NOT IN USE
WHEN CONSTRUCTION IS NOT TAKING PLACE

TRAFFIC CONTROL,
SINGLE LANE CROSSOVER

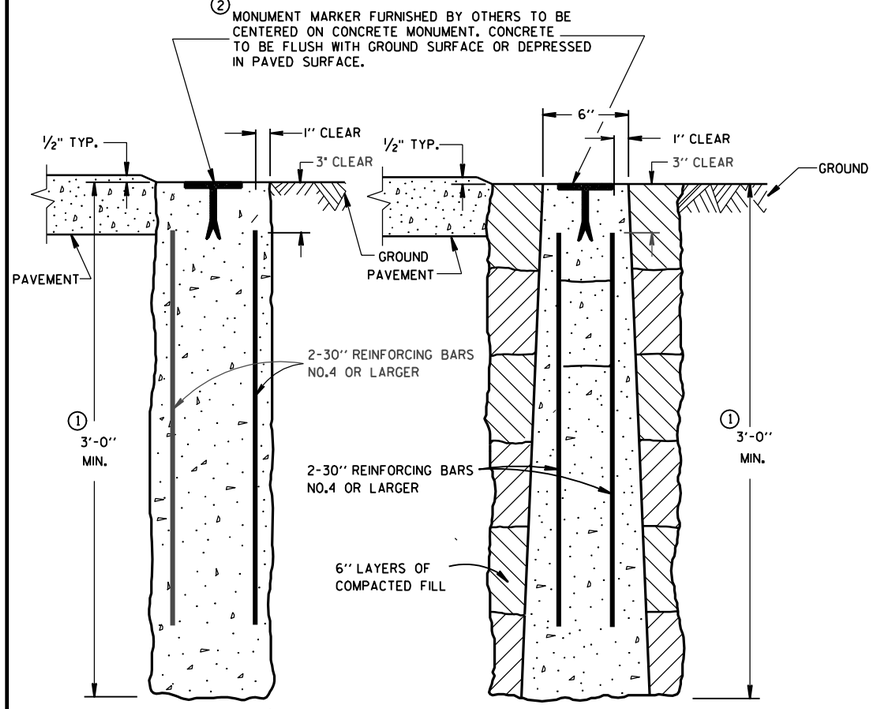
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10-22-96
DATE
Charles J. Spay
for DIRECTOR, OFFICE OF TRAFFIC
FHWA

S.D.D. 15 D 11-3

6

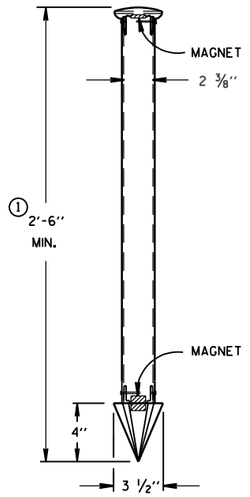
S.D.D. 15 D 11-3



CAST-IN-PLACE PRECAST

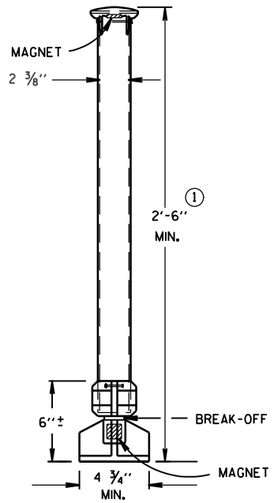
CONCRETE MONUMENTS

TYPE A



TYPE C

DRIVE-IN MONUMENT



TYPE D

BREAK-OFF MONUMENT

ALUMINUM MONUMENTS

(INCLUDES MARKER)

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.

DETAILED DRAWINGS OF PROPOSED ALTERNATE DESIGNS FOR METAL MONUMENTS OR MONUMENT COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

INSTALLED METAL MONUMENTS MUST BE EASILY DETECTED WITH A DIP NEEDLE. INSERT PERMANENT MAGNETS SHALL BE ATTACHED NEAR THE TOP AND BOTTOM OF THOSE MONUMENTS CONSTRUCTED OF A METAL ALLOY WHICH IS NOT ATTRACTIVE TO A DIP NEEDLE.

THE CAST IRON MONUMENT COVER SHALL BE A "NON-ROCKING" TYPE. ADJUSTMENT OF THE COVER TO GRADE MAY BE ACCOMPLISHED BY THE USE OF MORTAR AND BRICK, OR BY EITHER PRECAST OR CAST-IN-PLACE REINFORCED CONCRETE GRADE RINGS.

MONUMENTS SHALL BE LOCATED AND PLACED AT THE DIRECTION OF THE ENGINEER.

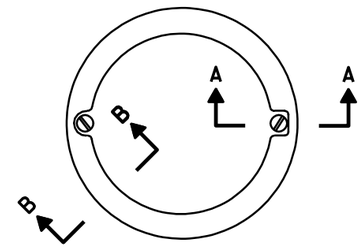
ALUMINUM MONUMENTS AND MONUMENT COVERS SHALL BE MADE FROM AN ALUMINUM AND MAGNESIUM ALLOY AS DETERMINED BY THE MANUFACTURER.

THE MONUMENT COVERS DETAILED ON THIS DRAWING ARE NOT EQUAL ALTERNATES. MONUMENT COVERS SHALL BE CAST IRON UNLESS ALUMINUM IS SPECIFIED ELSEWHERE IN THE CONTRACT.

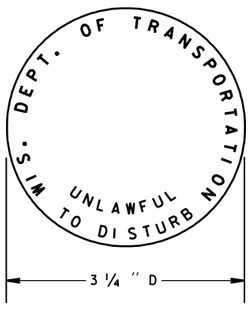
MONUMENT SHALL BE CAST-IN-PLACE CONCRETE UNLESS PRECAST CONCRETE OR ALUMINUM MONUMENTS ARE SPECIFIED IN THE CONTRACT OR PERMITTED BY THE ENGINEER.

① MINIMUM LENGTH SHALL BE 4'-0" FOR MONUMENTS INSTALLED IN PAVED AREAS.

② AN OFFICIAL COUNTY MONUMENT MARKER SUPPLIED BY A COUNTY MAY BE REQUIRED FOR SOME SECTION CORNERS AND WITNESS MONUMENTS INSTEAD OF THIS WIS DOT MARKER.

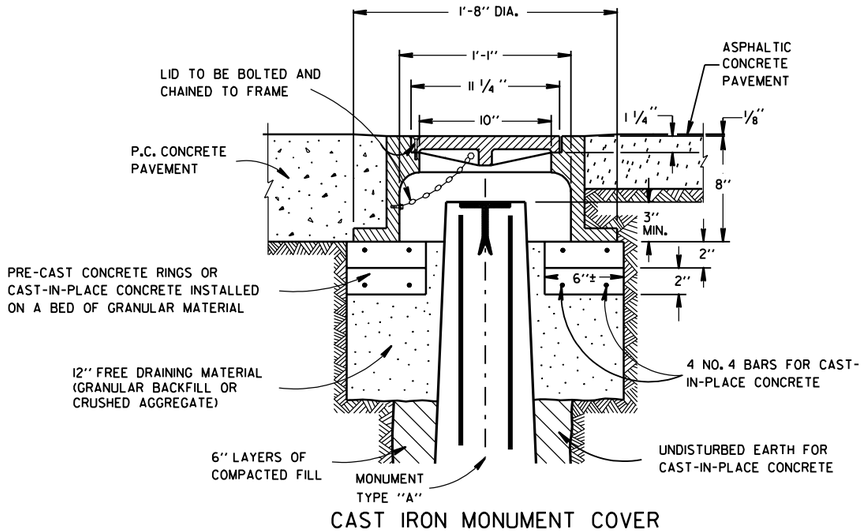


TOP VIEW



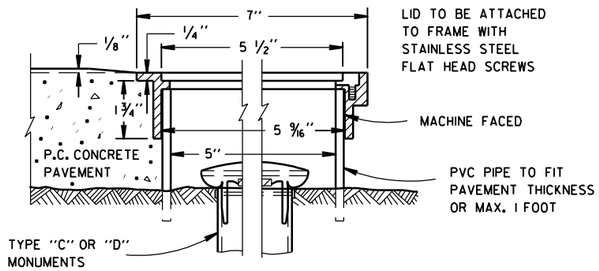
② WIS DOT MONUMENT MARKER LOGO

FOR TYPES "A", "C" & "D"



CAST IRON MONUMENT COVER

(APPROXIMATE WEIGHT - 95 LBS.)



SECTION B-B SECTION A-A

ALUMINUM MONUMENT COVER

(APPROXIMATE WEIGHT 2 LBS)

(FOR CONCRETE PAVEMENT ONLY)

LANDMARK REFERENCE MONUMENTS AND COVERS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED 9/22/99 DATE
FHWA

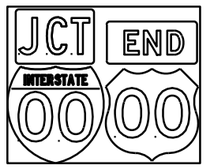
CHIEF ROADWAY DEVELOPMENT ENGINEER

6
S.D.D. 16 A 1-6

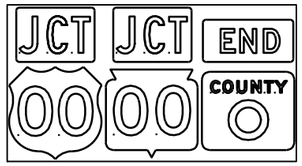
TYPICAL ASSEMBLIES



J1-1



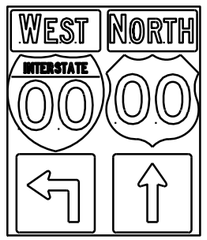
J1-2



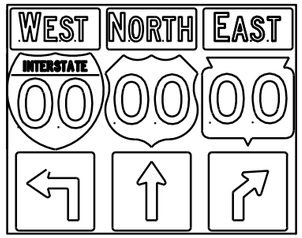
J1-3



J2-1



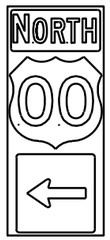
J2-2



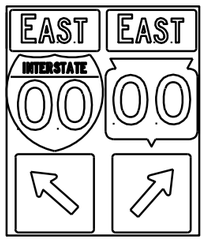
J2-3



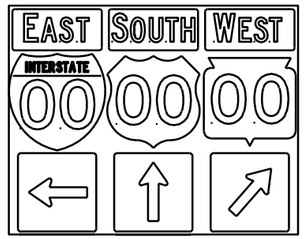
JV



J3-1



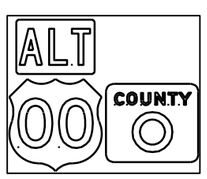
J3-2



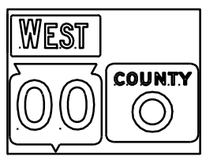
J3-3



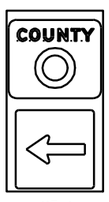
J4-1



J4-2



J4-2



J13-1



J12-1



J32-1



J33-1



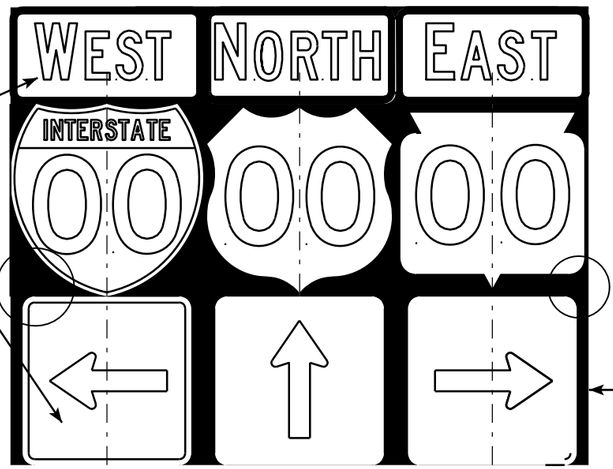
J23-1

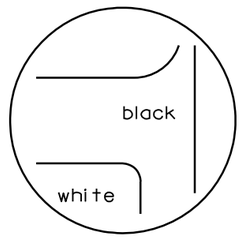


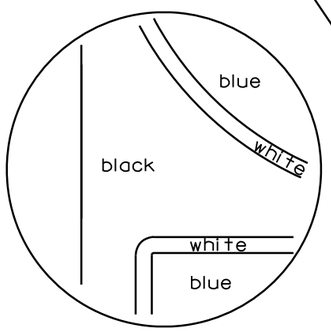
J22-1

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 since base material is plywood.
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.







ROUTE MARKERS & COMPONENTS IN TYPICAL ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 10/21/09 PLATE NO. A2-1S.6

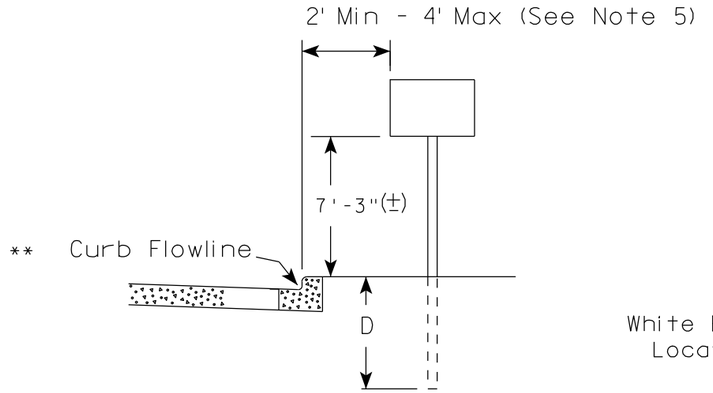
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7

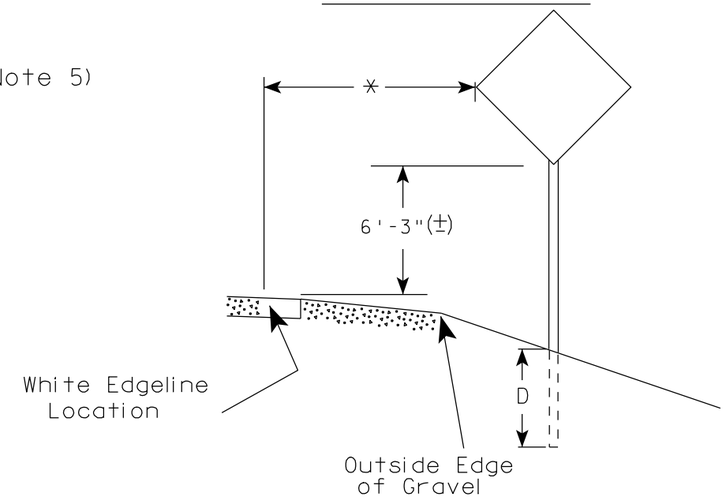
PROJECT NO:

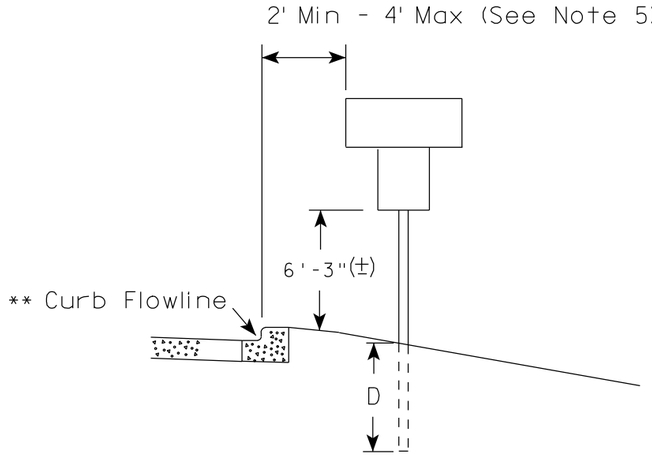
SHEET NO: 157 E

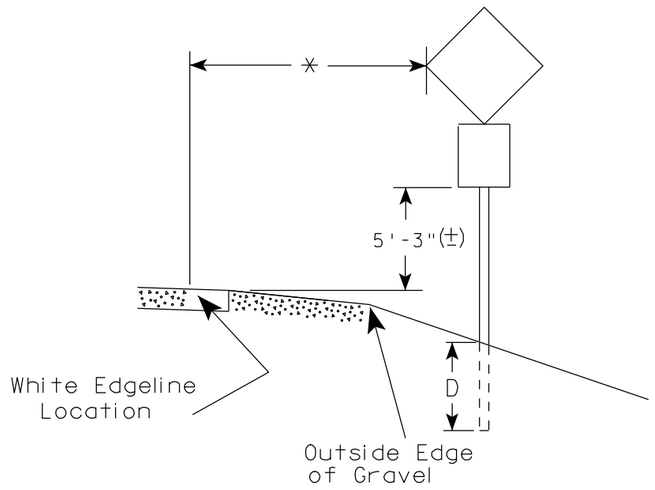
URBAN AREA



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.

GENERAL NOTES

1. Signs wider than 4 feet or larger than 20 sq. ft. 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. Minimum mounting height for J assemblies (A4-5) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
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 stop signs (R1-1F) shall be mounted at a height of 5'-3" (±) or as directed 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 (W1-8A), Clearance Markers (W5-52), Mile Markers (D10 series) & End of Road Markers (W5-56 & W5-56A) 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'

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

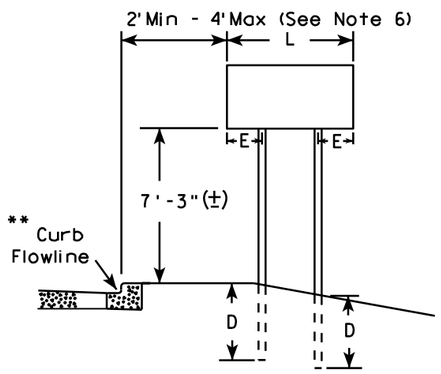
DATE 9/30/09 PLATE NO. A4-3.15

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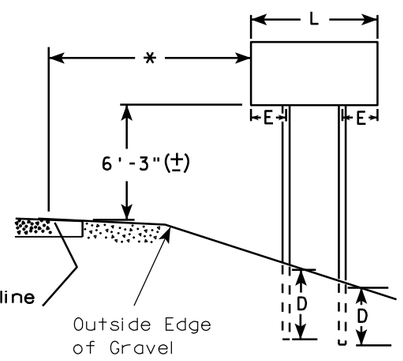
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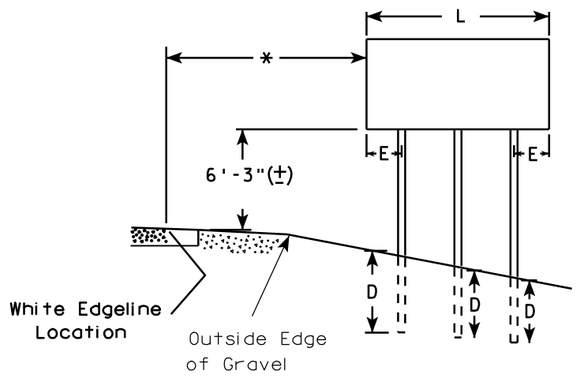
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 158 | E

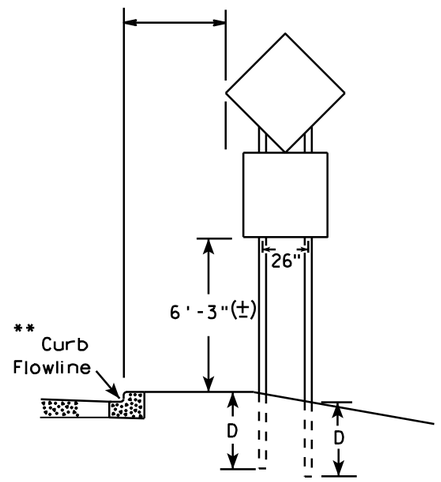
URBAN AREA



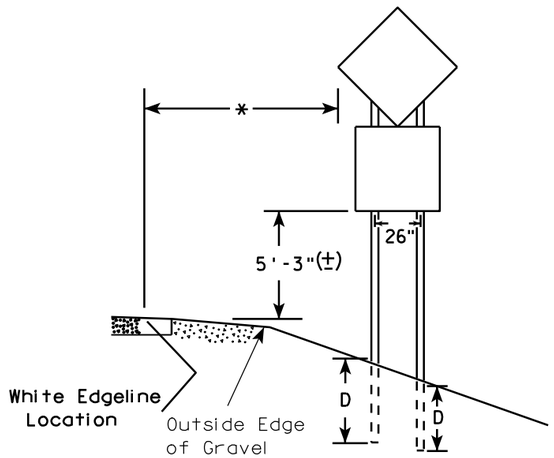
RURAL AREA (See Note 3)







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 120"	L/5

***

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 120" less than 168"	12"

SIGN SHAPE OTHER THAN DIAMOND (FOUR POSTS REQUIRED)	
L	E
168" and greater	12"

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

GENERAL NOTES

1. For multiple 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. Minimum mounting height for J assemblies (A4-5) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. Folding stop signs (R1-1F) 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 (W1-8A), Clearance Markers (W5-52), Mile Markers (D10 series) & End of Road Markers (W5-56 & W5-56A) 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 or 20 S.F. or less in area.

TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

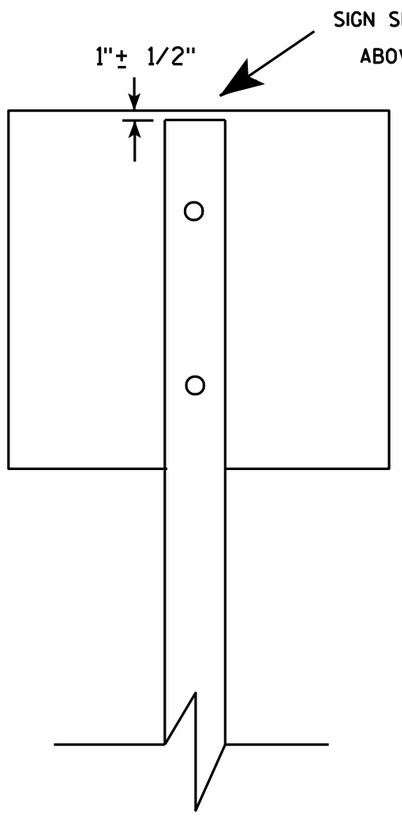
APPROVED Matthew R Rauch
for State Traffic Engineer

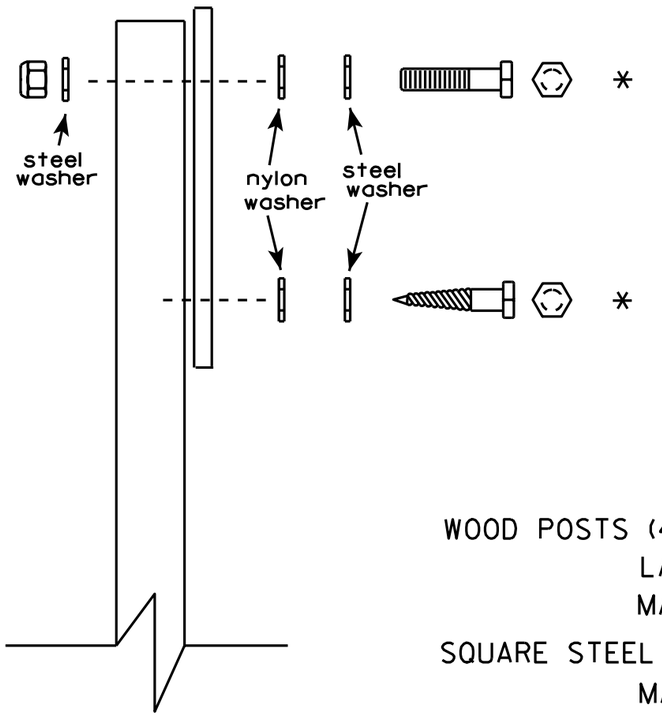
DATE 9/30/09 PLATE NO. A4-4.10

7

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PROJECT NO: | HWY: | COUNTY: | SHEET NO: 159 | E





Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

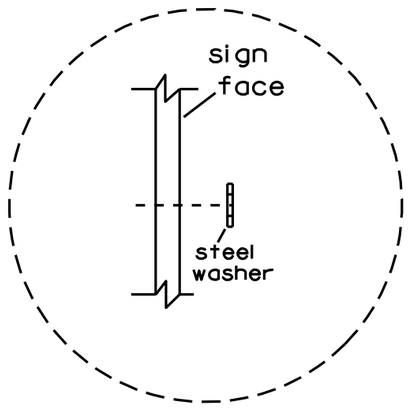
a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3
b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

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.

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.



Washer Placement when Sign Has Other Than Type H or Type F Face

* 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

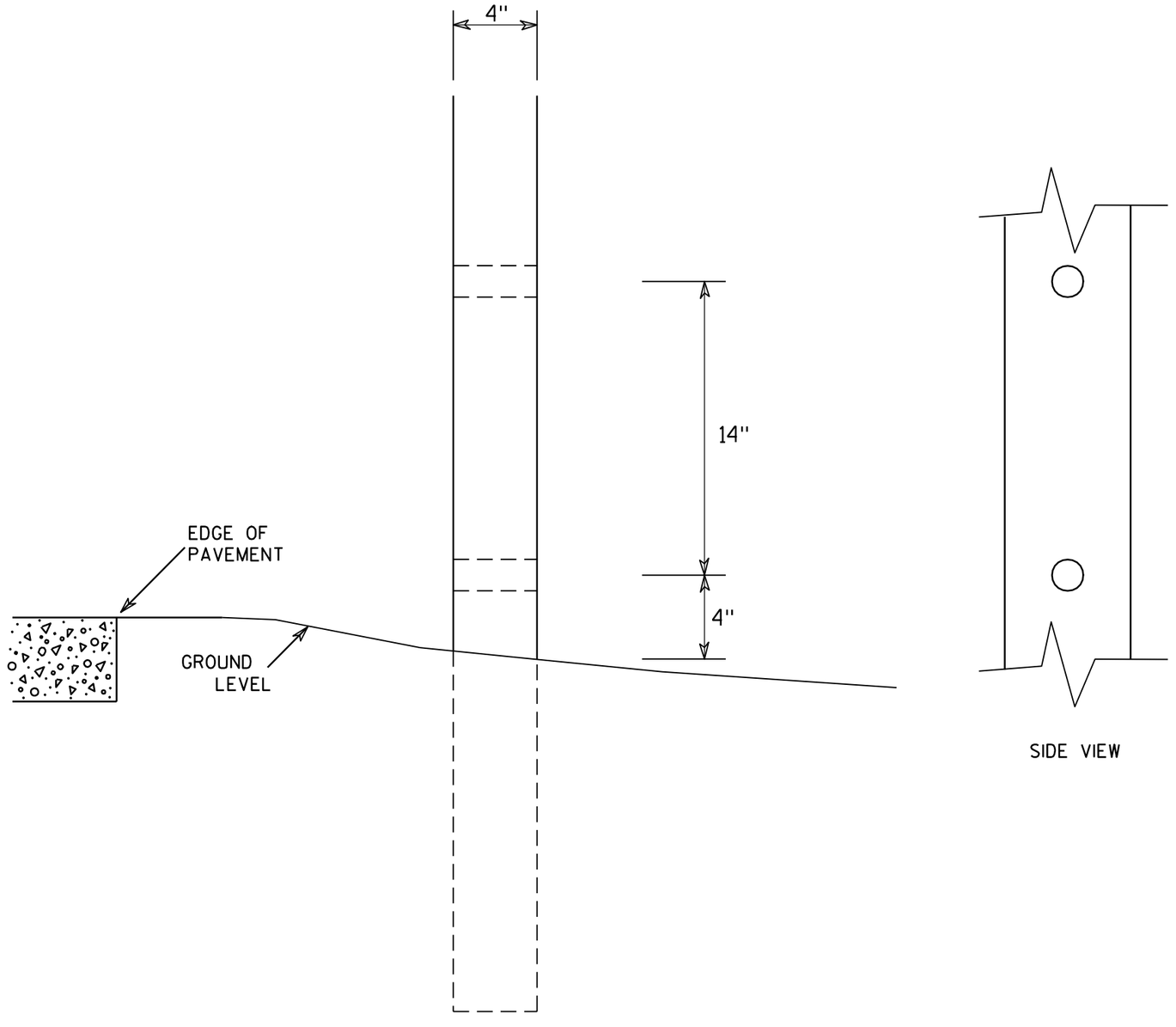
DATE 3/23/10 PLATE NO. A4-8.7

7

7

PROJECT NO:

SHEET NO: 160 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

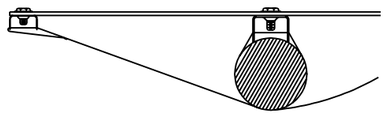
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang for State Traffic Engineer

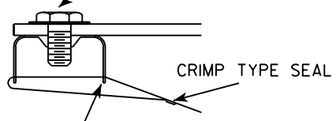
DATE 3/27/97 PLATE NO. A4-11.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 161	E

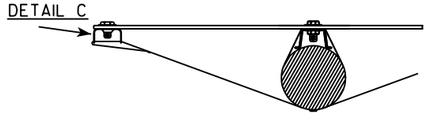
BRACE BANDING

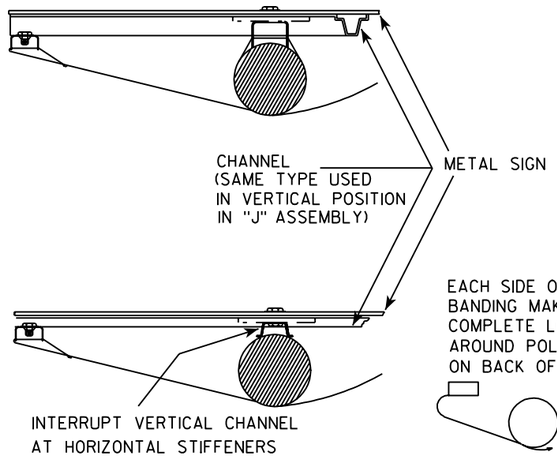


DETAIL C
CADMIUM PLATED STEEL BOLT
THROUGH BLACK BORDER



DETAIL C

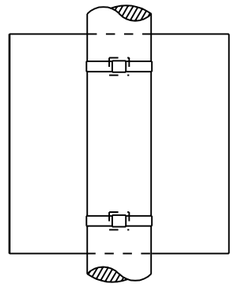


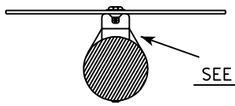


EACH SIDE OF BRACE
BANDING MAKES ONE
COMPLETE LOOP
AROUND POLE-SEAL
ON BACK OF POLE

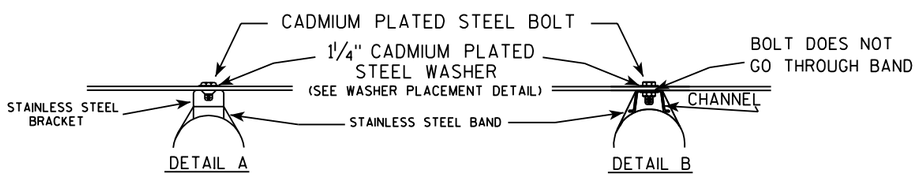
BRACKET BANDING

SINGLE SIGN





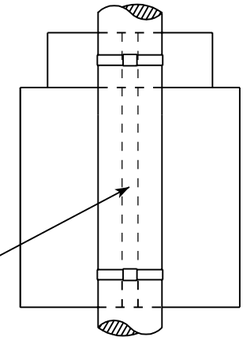
SEE DETAIL A



DETAIL A

DETAIL B

"J" ASSEMBLY

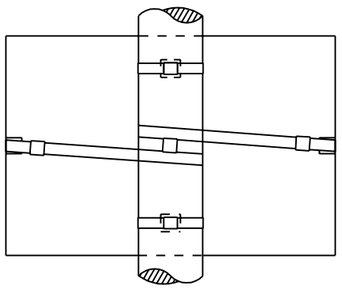


CHANNEL
SEE TYPICAL PANEL
INSTALLATION SHEET

SEE DETAIL B

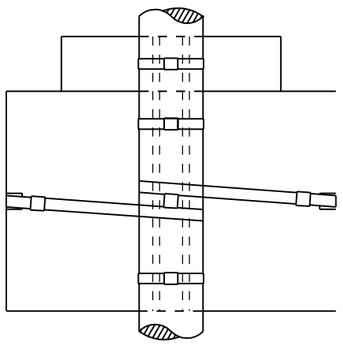
GENERAL NOTES

1. Signs 4' or greater in width shall have one brace band installed at the center of the sign.
2. Signs 3' or greater in height shall have three bracket bands installed. Signs less than 3' in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be ¾" in width and 0.025" thickness.

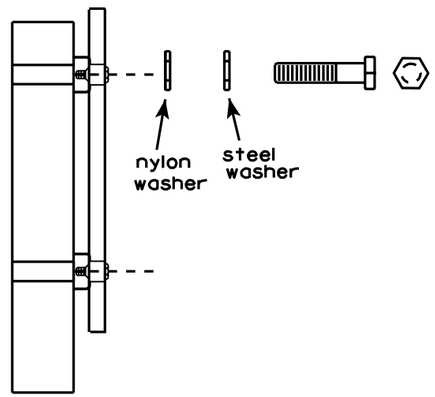


BRACE BANDING

BRACE BANDING SHALL BE TIGHTENED FIRMLY BUT NOT SO TIGHT AS TO APPRECIABLY CURVE FACE OF SIGN.



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

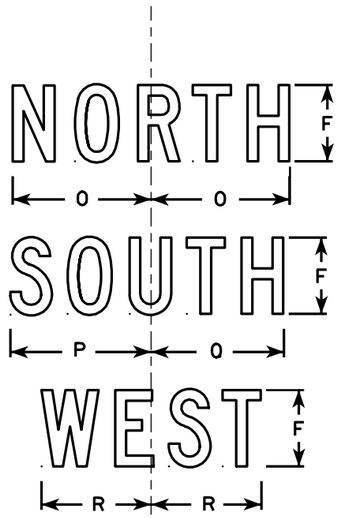
STANDARD SIGN
SIGN BANDING DETAILS

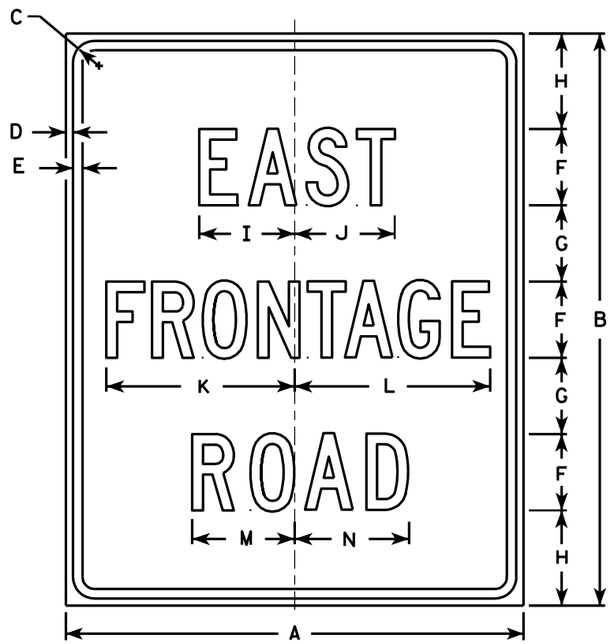
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/08/05 PLATE NO. A5-9.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 162	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.

7

7

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																												

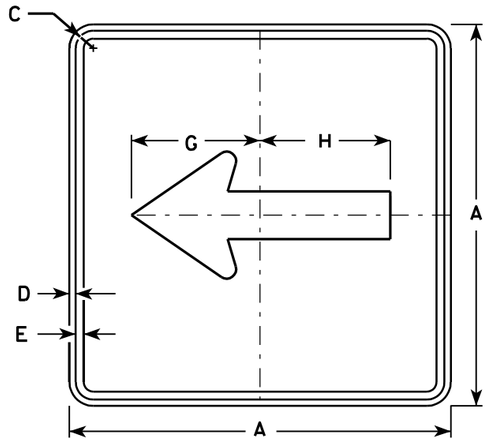
STANDARD SIGN
M1-95A

WISCONSIN DEPT OF TRANSPORTATION

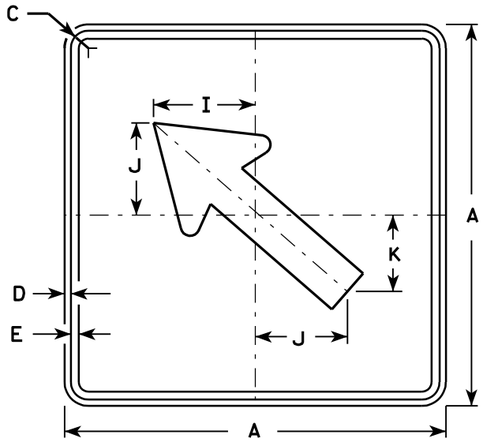
APPROVED Chester J Spang for State Traffic Engineer

DATE 1/30/02 PLATE NO. M1-95A.3

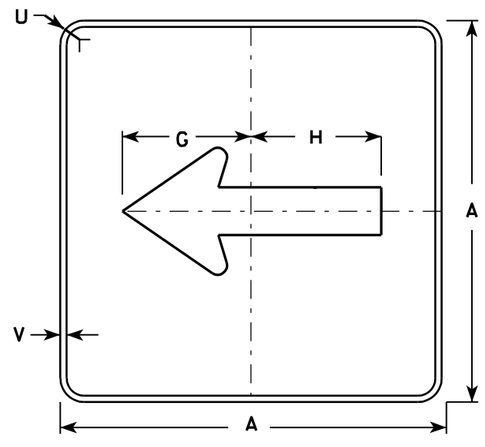
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 163	E



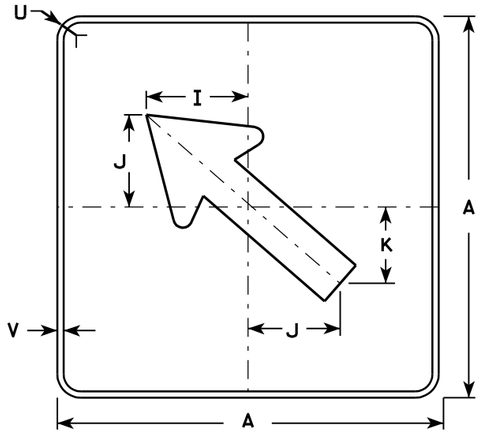
M6-1
MK6-1
MM6-1
MO6-1
MR6-1



M6-2
MK6-2
MM6-2
MO6-2
MR6-2



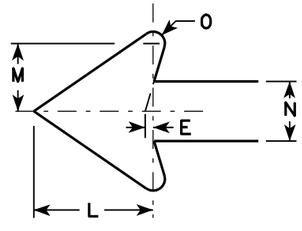
MB6-1
MG6-1
MN6-1



MB6-2
MG6-2
MN6-2

NOTES

1. Signs are Type II - See Note 4 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
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 - Type H Reflective (Detour or temporary Signs - Reflective) Message - Black
   MB6-1 and MB6-2 Background - Blue Message - White - Type H Reflective (Detour or temporary Signs - Reflective)
   MG6-1 and MG6-2 Background - Green Message - White - Type H Reflective
   MK6-1 and MK6-2 Background - Green Message - White - Type H Reflective
   MM6-1 and MM6-2 Background - White - Type H Reflective Message - Green
   MN6-1 and MN6-2 Background - Brown Message - White - Type H Reflective
   MO6-1 and MO6-2 Background - Orange - Reflective Message - Black
   MR6-1 and MR6-2 Background - Brown Message - Yellow - Type H Reflective



Metric equivalent for this sign is:

SIZE	
1	
2	525 mm X 525 mm
3	750 mm X 750 mm
4	750 mm X 750 mm
5	750 mm X 750 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	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	0.28
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	0.56
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	0.56
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	0.56

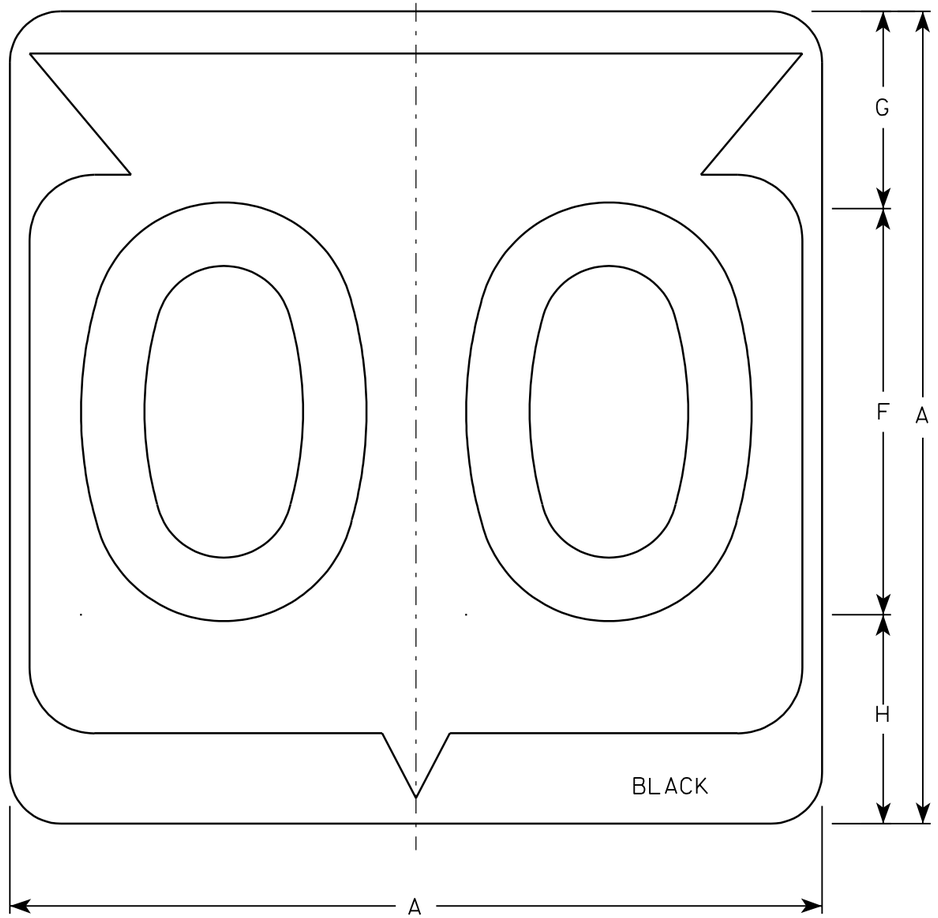
STANDARD SIGN M6-1 & M6-2 SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/16/10 PLATE NO. M6-1.12

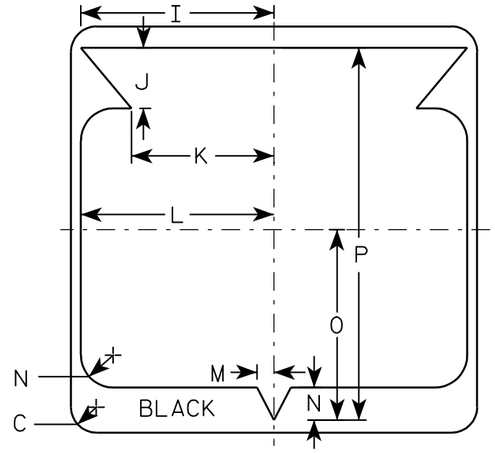
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 164	E



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

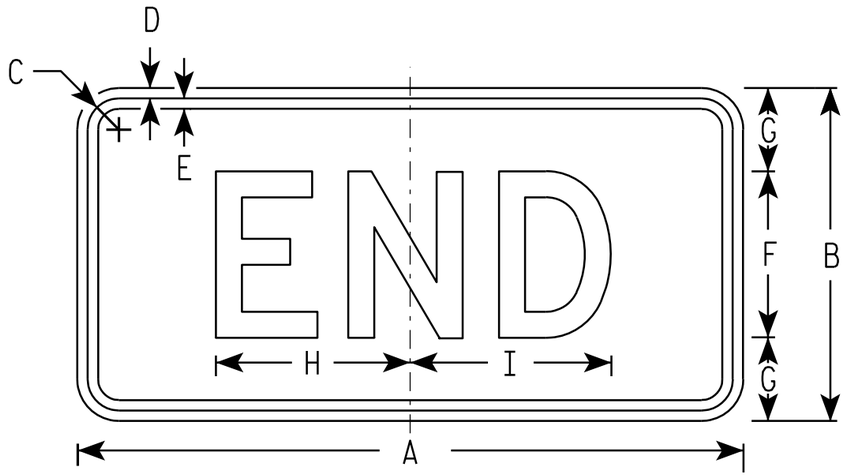
STATE ROUTE MARKER M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

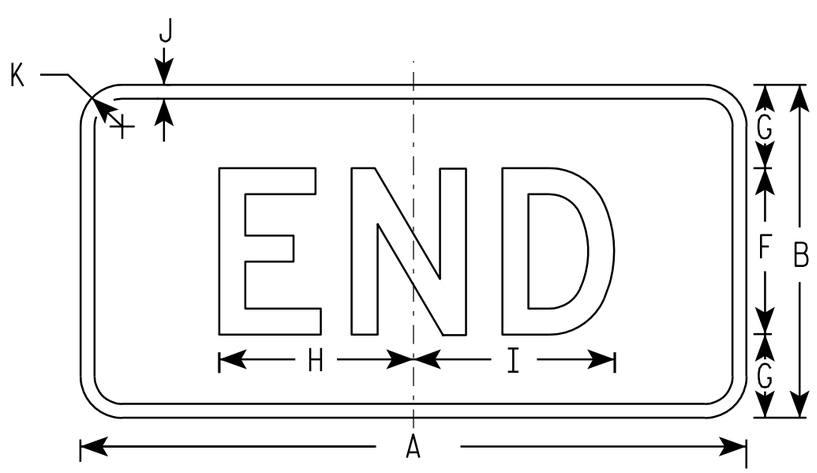
APPROVED Chester J Spang for State Traffic Engineer

DATE 3/20/02 PLATE NO. M1-6.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 165	E



M4-6
MK4-6
MM4-6
MR4-6



MB4-6
MG4-6
MN4-6

NOTES

1. Sign is Type II - See Note 5 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - See note 5
   Message - See note 5
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. M4-6 Background - White - Type H Reflective (Detour or temporary Signs - Reflective)
   Message - Black

   MB4-6 Background - Blue
   Message - White - Type H Reflective (Detour or temporary Signs - Reflective)

   MG4-6 Background - Green
   Message - White - Type H Reflective

   MK4-6 Background - Green
   Message - White - Type H Reflective

   MM4-6 Background - White - Type H Reflective
   Message - Green

   MN4-6 Background - Brown
   Message - White - Type H Reflective

   MR4-6 Background - Brown
   Message - Yellow - Type H Reflective

Metric equivalent for this sign is:

SIZE	
1	
2	600 mm X 300 mm
3	750 mm X 375 mm
4	750 mm X 375 mm
5	750 mm X 375 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	12	1 1/8	3/8	3/8	6	3	7	7 1/4	1/2	1 1/2																2.00	0.18
3	30	15	1 1/8	3/8	1/2	8	3 1/2	9 1/4	9 3/4	1/2	1 1/2																3.13	0.28
4	30	15	1 1/8	3/8	1/2	8	3 1/2	9 1/4	9 3/4	1/2	1 1/2																3.13	0.28
5	30	15	1 1/8	3/8	1/2	8	3 1/2	9 1/4	9 3/4	1/2	1 1/2																3.13	0.28

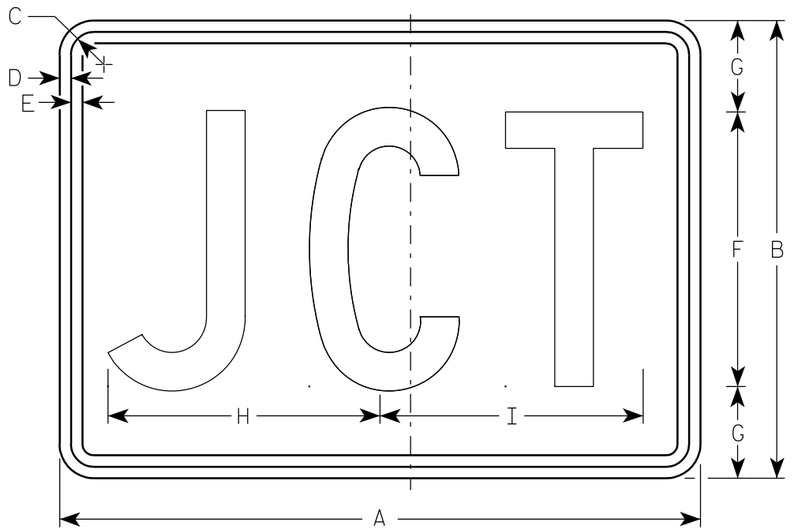
STANDARD SIGN
M4-6

WISCONSIN DEPT OF TRANSPORTATION

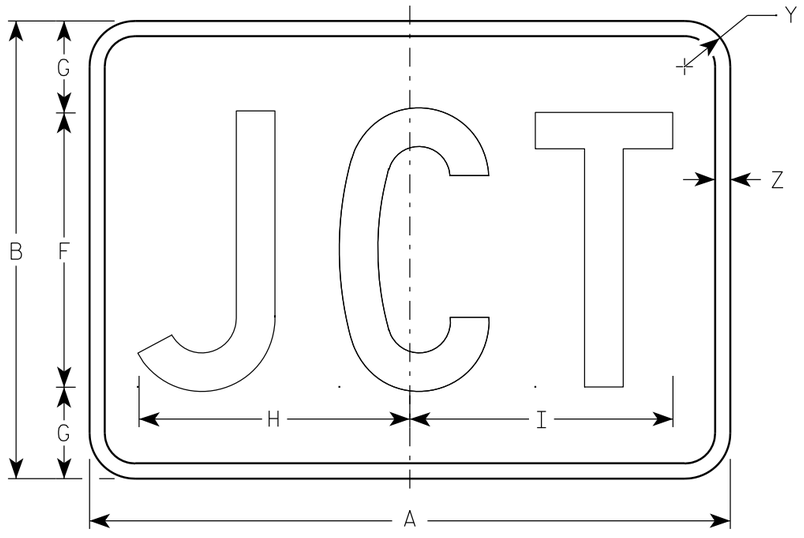
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/16/10 PLATE NO. M4-6.6

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 166	E



M2-1
MK2-1
MM2-1
MR2-1



MB2-1
MG2-1
MN2-1

NOTES

1. Sign is Type II - See Note 5 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
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 - Type H Reflective
   (Detour or temporary Signs - Reflective)
   Message - Black
   MB2-1 Background - Blue
   Message - White - Type H Reflective
   (Detour or temporary Signs - Reflective)
   MG2-1 Background - Green
   Message - White - Type H Reflective
   MK2-1 Background - Green
   Message - White - Type H Reflective
   MM2-1 Background - White - Type H Reflective
   Message - Green
   MN2-1 Background - Brown
   Message - White - Type H Reflective
   MR2-1 Background - Brown
   Message - Yellow - Type H Reflective

Metric equivalent for this sign is:

SIZE	
1	
2	525 mm X 375 mm
3	750 mm X 525 mm
4	750 mm X 525 mm
5	750 mm X 525 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	21	15	1 1/8	3/8	3/8	9	3	8 7/8	8 5/8																1 1/2	1/2	2.20	0.20
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	0.20
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	0.20
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	0.20

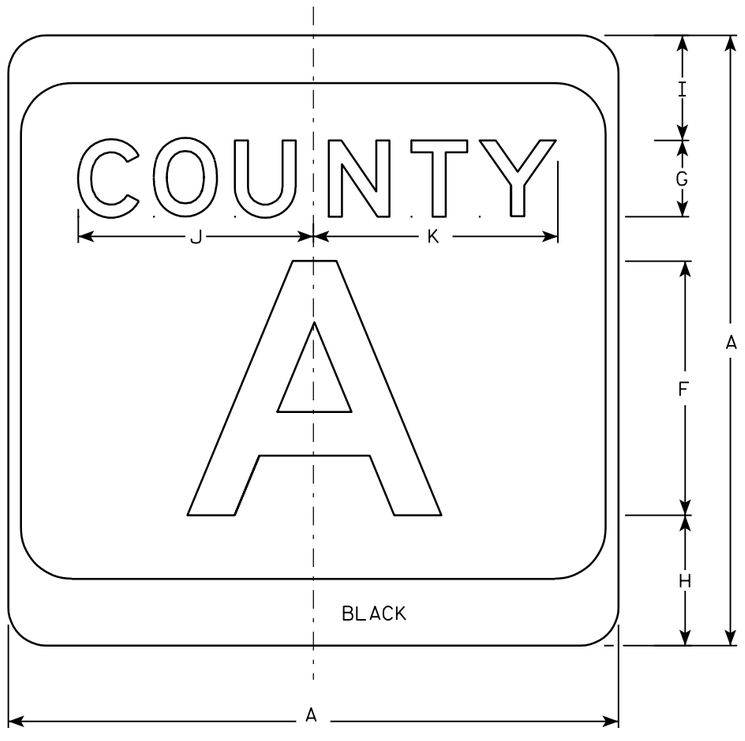
STANDARD SIGN
M2-1

WISCONSIN DEPT OF TRANSPORTATION

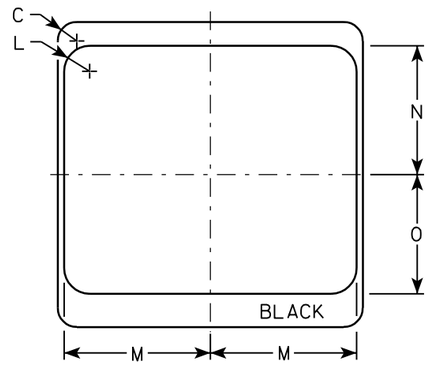
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/16/10 PLATE NO. M2-1.10

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 167	E



M1-5A



NOTES

1. Sign is Type II - see Note 7 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White & Black - See Note 7
   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. Message Series E for 1 letter.
   Message Series D for 2 letters unless message is too big then Series C.
   Message Series C for 3 letters unless message is too big then Series B.
6. Substitute appropirate letters & optically adjust spacing to achieve proper balance.
7. 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			10	3	5 1/8	4 1/8	9 1/4	9 5/8	2	11 1/2	10 1/8	9 3/8												4.0	.36
3	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14												9.0	.81
4	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14												9.0	.81
5	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14												9.0	.81

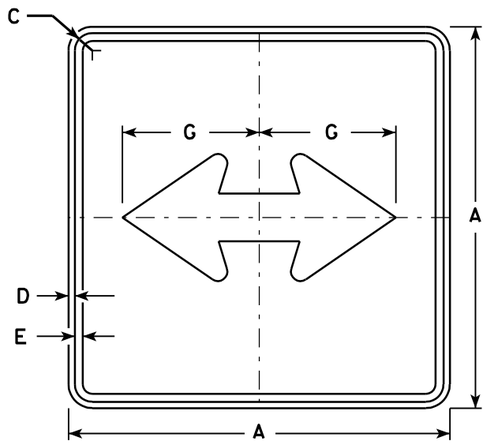
CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

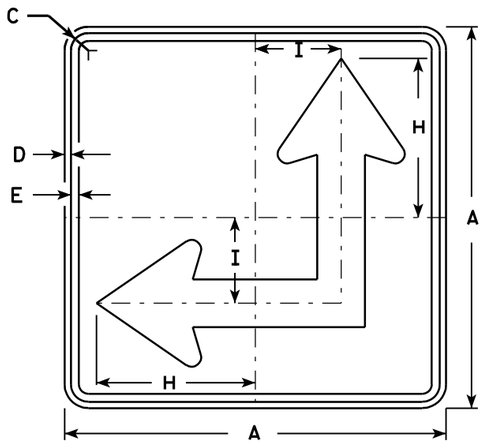
APPROVED Chester J Spagg for State Traffic Engineer

DATE 3/20/02 PLATE NO. M1-5A.7

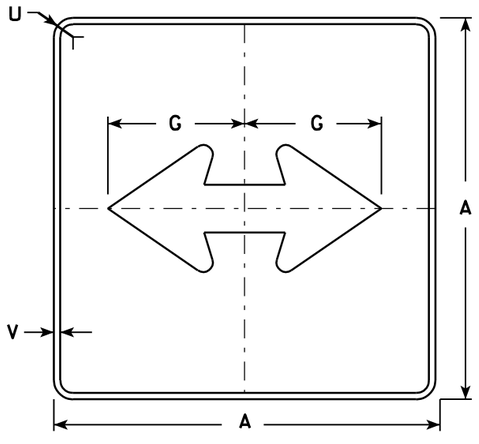
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 168	E



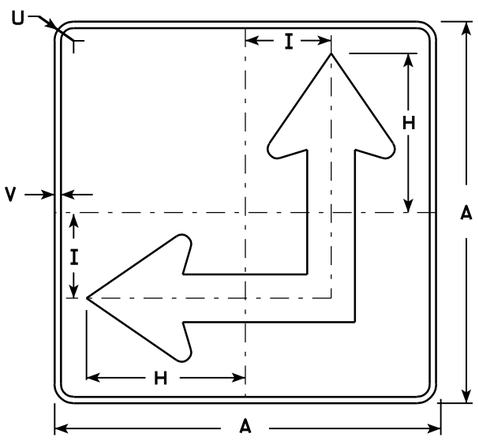
M6-4
MK6-4
MM6-4
MO6-4
MR6-4



M6-6
MK6-6
MM6-6
MO6-6
MR6-6



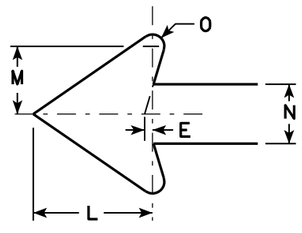
MB6-4
MG6-4
MN6-4



MB6-6
MG6-6
MN6-6

NOTES

1. Signs are Type II - See Note 4 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
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. M6-4 and M6-6 Background - White - Type H Reflective
   (Detour or temporary Signs - Reflective)
   Message - Black
   MB6-4 and MB6-6 Background - Blue
   Message - White - Type H Reflective
   (Detour or temporary Signs - Reflective)
   MG6-4 and MG6-6 Background - Green
   Message - White - Type H Reflective
   MK6-4 and MK6-6 Background - Green
   Message - White - Type H Reflective
   MM6-4 and MM6-6 Background - White - Type H Reflective
   Message - Green
   MN6-4 and MN6-6 Background - Brown
   Message - White - Type H Reflective
   MO6-4 and MO6-6 Background - Orange - Reflective
   Message - Black
   MR6-4 and MR6-6 Background - Brown
   Message - Yellow - Type H Reflective
5. M6-6R same as M6-6L except arrow points ahead and right.



Metric equivalent for this sign is:

SIZE	
1	
2	525 mm X 525 mm
3	750 mm X 750 mm
4	750 mm X 750 mm
5	750 mm X 750 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	21		1 1/8	3/8	3/8		7 1/2	8 3/4	4 1/4			5 1/4	3	2 5/8	1/2						1 1/2	1/2					3.06	0.28
3	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25	0.56
4	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25	0.56
5	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25	0.56

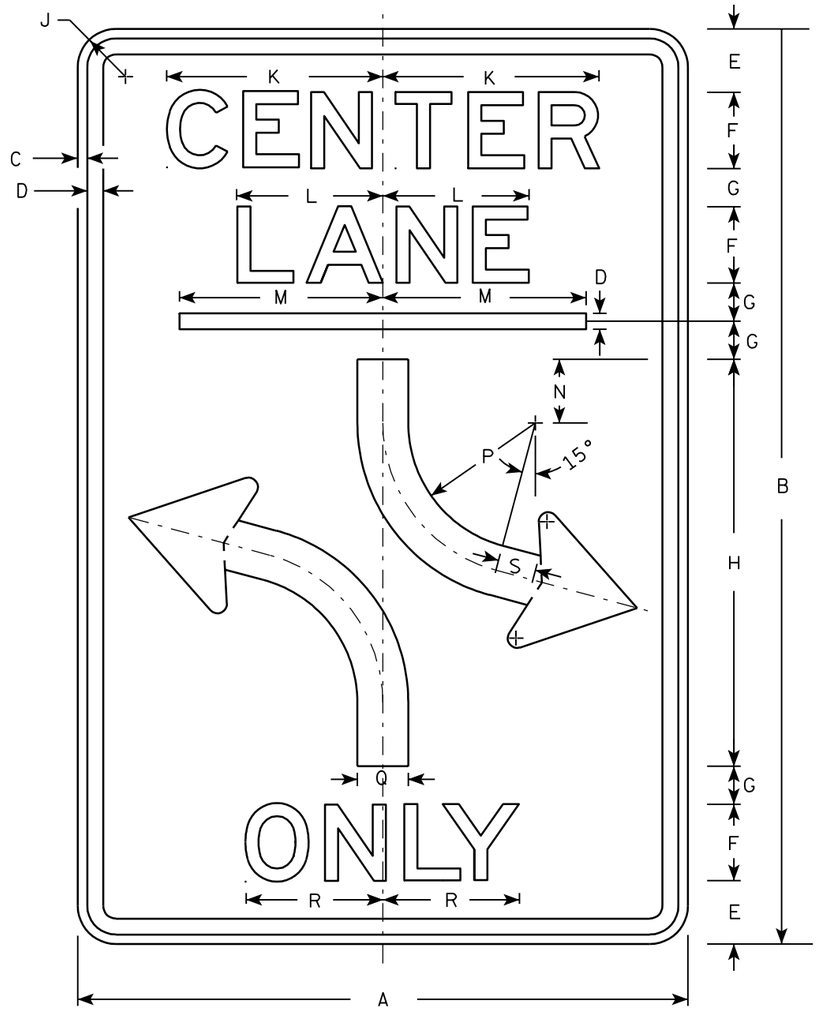
STANDARD SIGN M6-4 & M6-6 SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/16/10 PLATE NO. M6-4.7

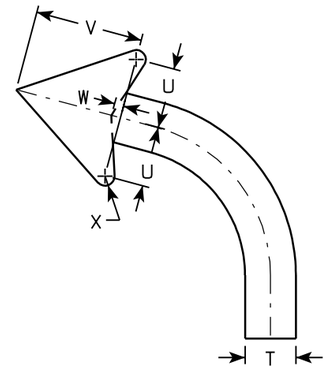
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 169	E



R3-9B

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.



ARROW DETAIL

Metric equivalent for this sign is:

SIZE	
1	
2	600 mm X 900 mm
3	900 mm X 1200 mm
4	
5	

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	36	3/8	1/2	2 1/2	3	1 1/2	16		1 1/2	8 1/2	5 3/4	8	2 1/2		6	2	5 1/8	1 1/2		2 3/8	4 3/8	3/8				6.0	0.54
3	36	48	5/8	7/8	3 1/2	5	1 1/2	20		2 1/4	14 1/8	9 1/2	12	3		4	3	9 7/8	2		3 1/2	6 1/8	1/2				12.0	1.08
4																												
5																												

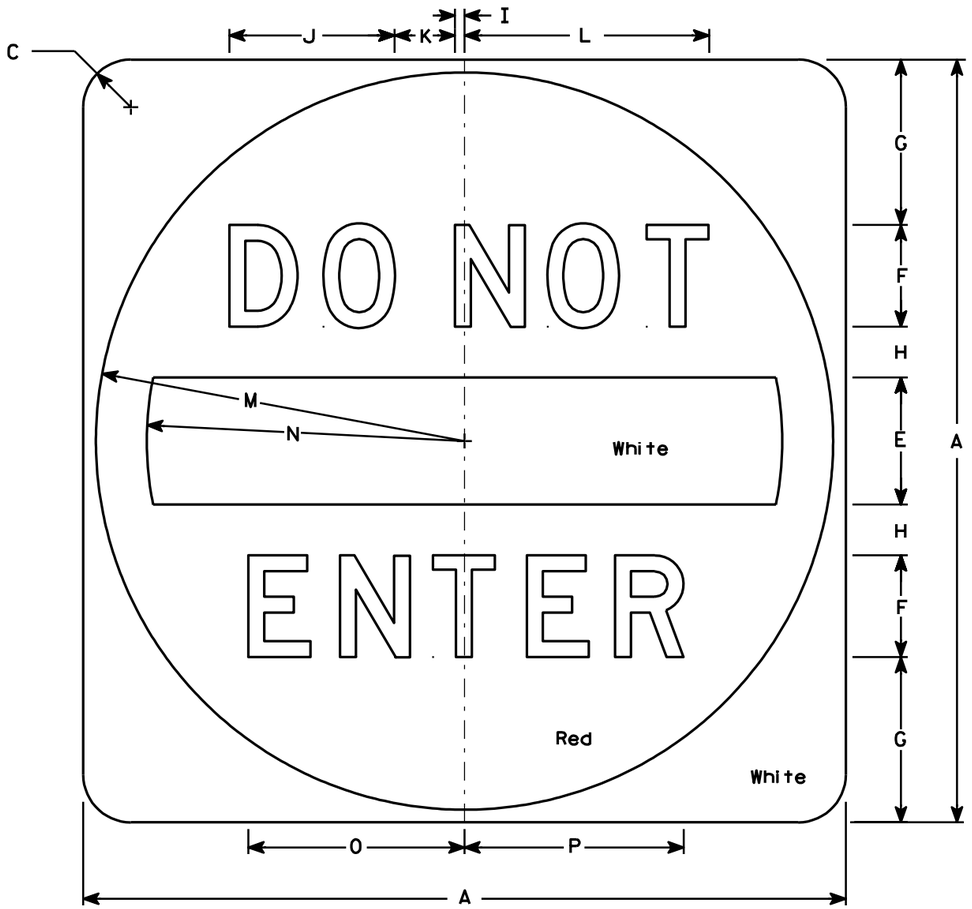
STANDARD SIGN
R3-9B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spay for State Traffic Engineer

DATE 2/05/02 PLATE NO. R3-9B.4

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 170	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.

Metric equivalent for this sign is:

SIZE	
1	
2	750 mm X 750 mm
3	900 mm X 900 mm
4	900 mm X 900 mm
5	1200 mm X 1200 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	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	0.56
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	0.81
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	0.81
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	1.44

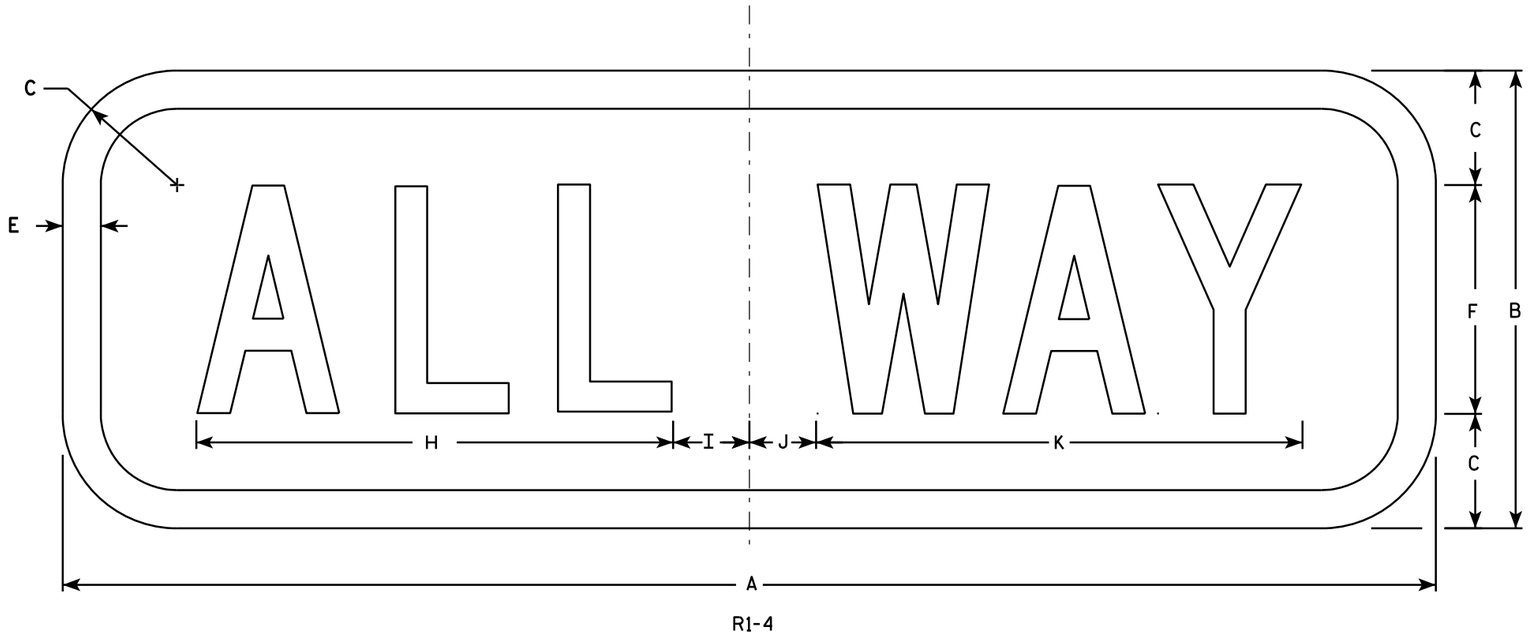
STANDARD SIGN
R5-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/05/05 PLATE NO. R5-1.14

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 171 | E



R1-4

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   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.

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	24	9	1 ½		½	5		9 ¼	1 ¼	¾	9 ¾																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																											
5																											

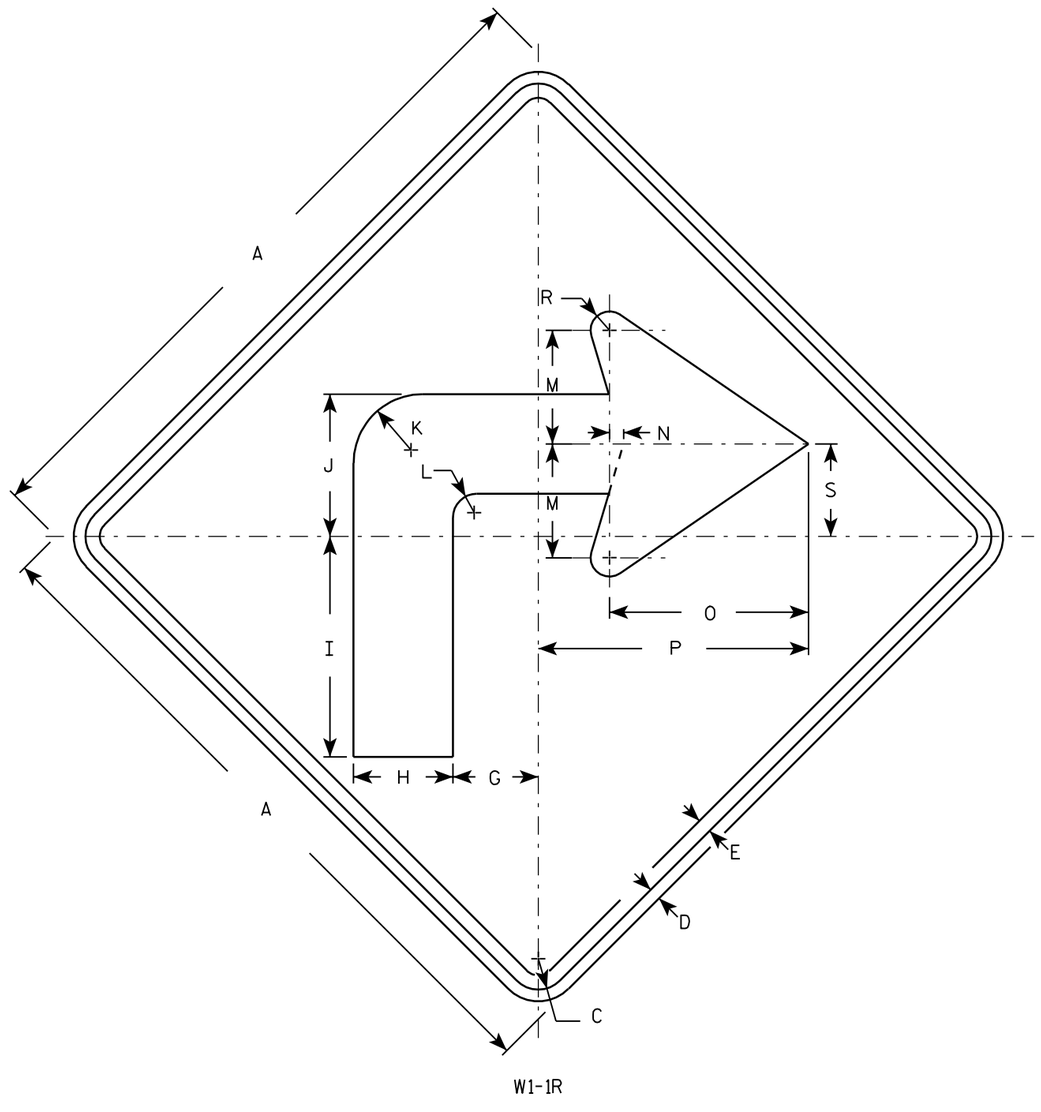
STANDARD SIGN
R1-4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/3/10 PLATE NO. R1-4.5

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 172 | E



W1-1R

NOTES

1. Sign is Type II - Type H 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.

Metric equivalent for this sign is:

SIZE	
1	600 mm X 600 mm
2	900 mm X 900 mm
3	900 mm X 900 mm
4	1200 mm X 1200 mm
5	1200 mm X 1200 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	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	0.36
2	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	0.81
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	0.81
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	1.44
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	1.44

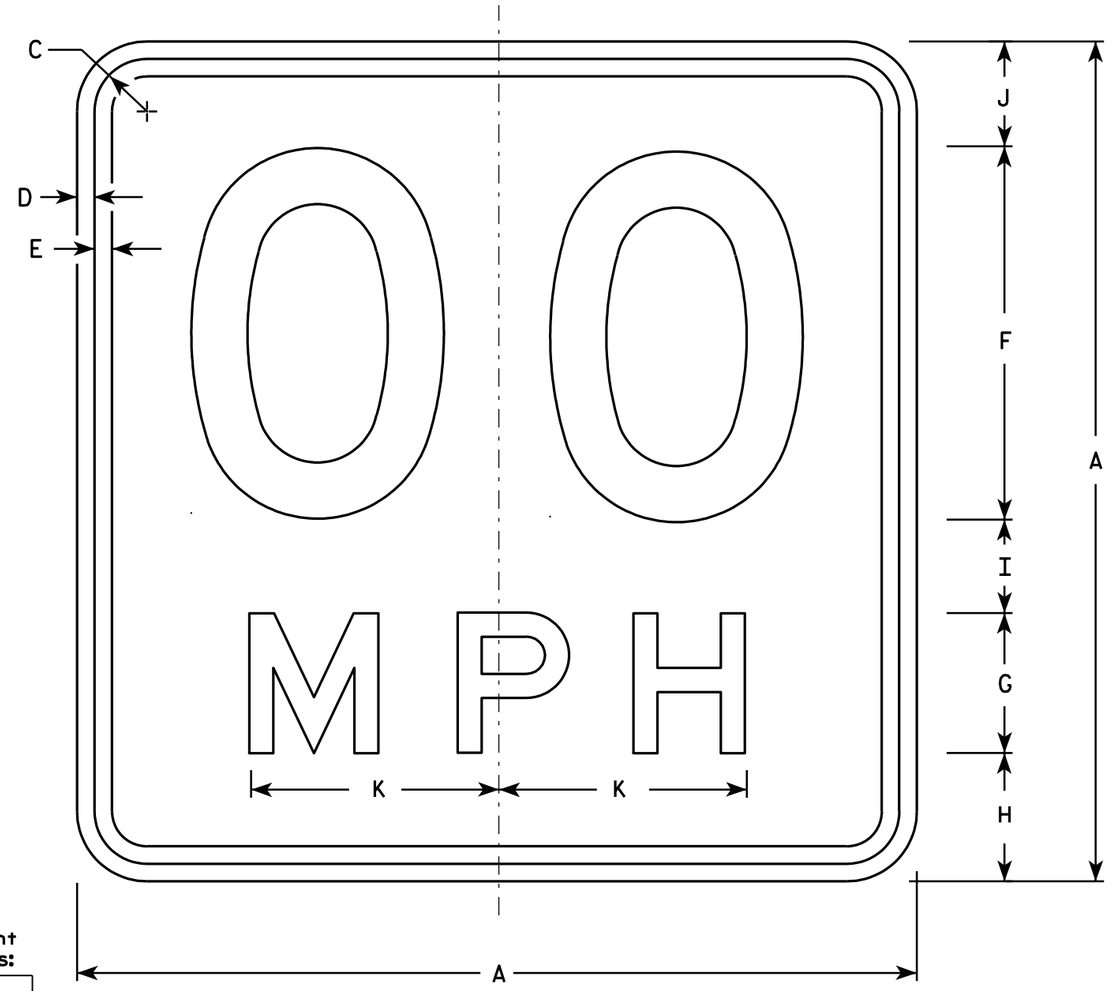
STANDARD SIGN
W1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/10/05 PLATE NO. W1-1.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 173	E



W13-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - 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

Metric equivalent for this sign is:

SIZE	
1	450 mm X 450 mm
2	450 mm X 450 mm
3	600 mm X 600 mm
4	900 mm X 900 mm
5	900 mm X 900 mm

* 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.

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 m^2
1	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25	0.20
2*	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25	0.20
2*	24		1 1/8	3/8	1/2	10	4	4	2 3/4	3 1/4	6 5/8																4.00	0.36
3	24		1 1/8	3/8	1/2	10	4	4	2 3/4	3 1/4	6 5/8																4.00	0.36
4	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00	0.81
5	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00	0.81

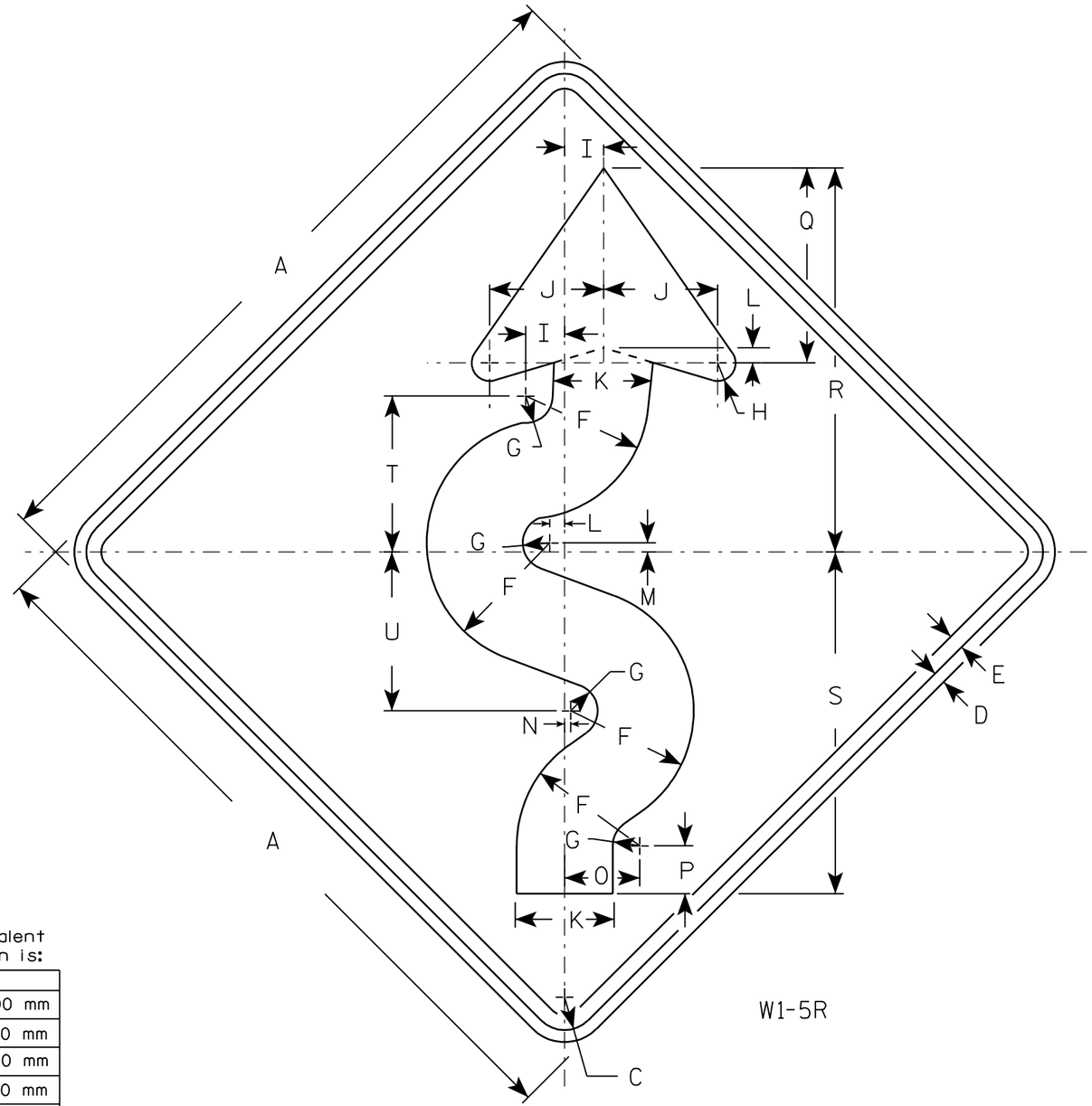
STANDARD SIGN
W13-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/05/06 PLATE NO. W13-1.14

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 174	E



W1-5R

NOTES

1. Sign is Type II - Type H 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. W1-5L is the same as W1-5R except the arrow is reversed along the vertical centerline.

Metric equivalent for this sign is:

SIZE	
1	600 mm X 600 mm
2	750 mm X 750 mm
3	900 mm X 900 mm
4	900 mm X 900 mm
5	1200 mm X 1200 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	24		1 1/8	3/8	1/2	4 1/8	7/8	5/8	1 1/4	3 3/4	3 1/4	1/2	1/4	1/8	2 1/2	1 5/8	6 1/2	12 3/4	11 3/8	5 1/4	5 1/4						4.0	0.36
2	30		1 3/8	1/2	5/8	5 1/8	1 1/8	3/4	1 5/8	4 3/4	4 1/8	5/8	3/8	1/4	3 1/8	2	8 1/8	16	14 1/4	6 1/2	6 5/8						6.25	0.56
3	36		1 5/8	5/8	3/4	6 1/4	1 3/8	1	1 7/8	5 5/8	4 7/8	3/4	3/8	1/4	3 3/4	2 7/8	9 3/4	19 1/8	17 1/8	7 3/4	7 7/8						9.0	0.81
4	36		1 5/8	5/8	3/4	6 1/4	1 3/8	1	1 7/8	5 5/8	4 7/8	3/4	3/8	1/4	3 3/4	2 7/8	9 3/4	19 1/8	17 1/8	7 3/4	7 7/8						9.0	0.81
5	48		2 1/4	3/4	1	8 1/4	1 3/4	1 1/4	2 1/2	7 1/2	6 1/2	1	1/2	3/8	5	3 1/4	13	25 1/2	22 3/4	10 3/8	10 1/2						16.0	1.44

STANDARD SIGN
W1-5

WISCONSIN DEPT OF TRANSPORTATION

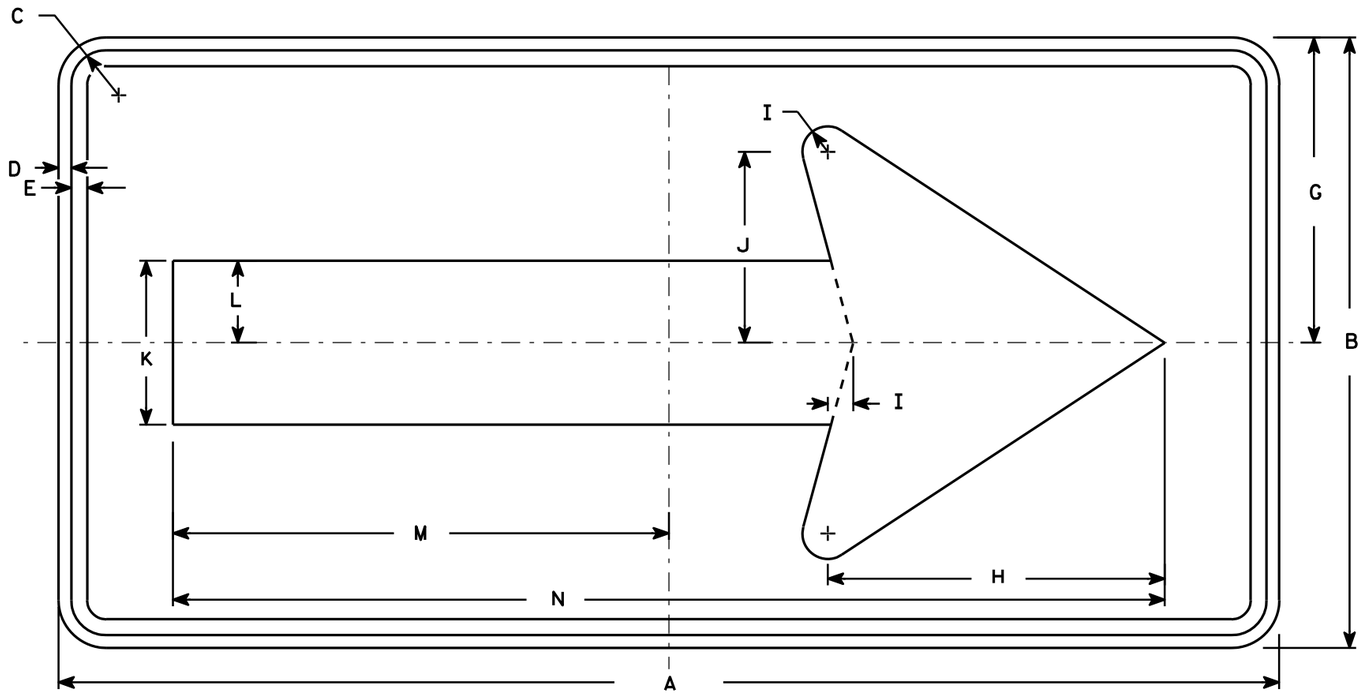
APPROVED Chester J Spang for State Traffic Engineer

DATE 01/14/02 PLATE NO. W1-5.6

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 175	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.



W1-6

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

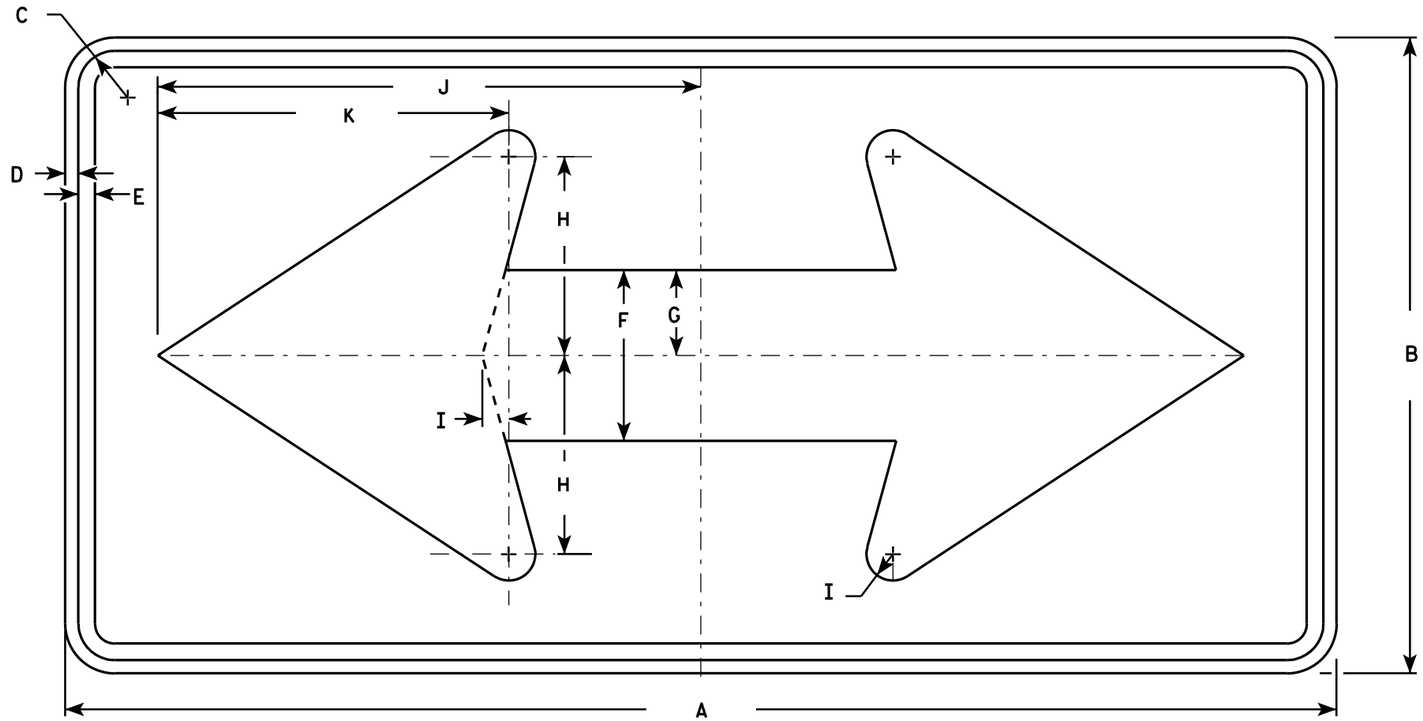
STANDARD SIGN
W1-6

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: 176



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

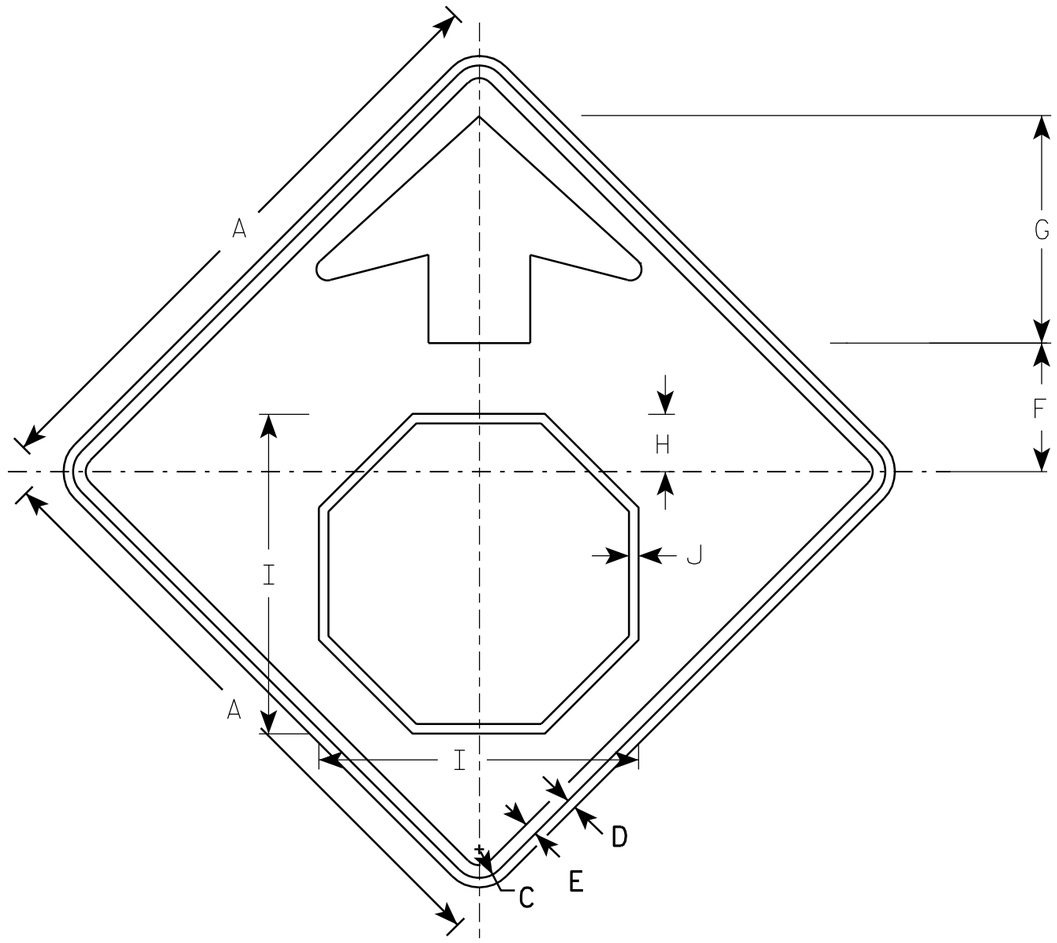
STANDARD SIGN
W1-7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W1-7.7

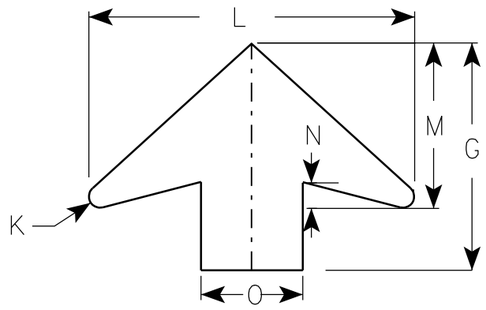
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 177 | E



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

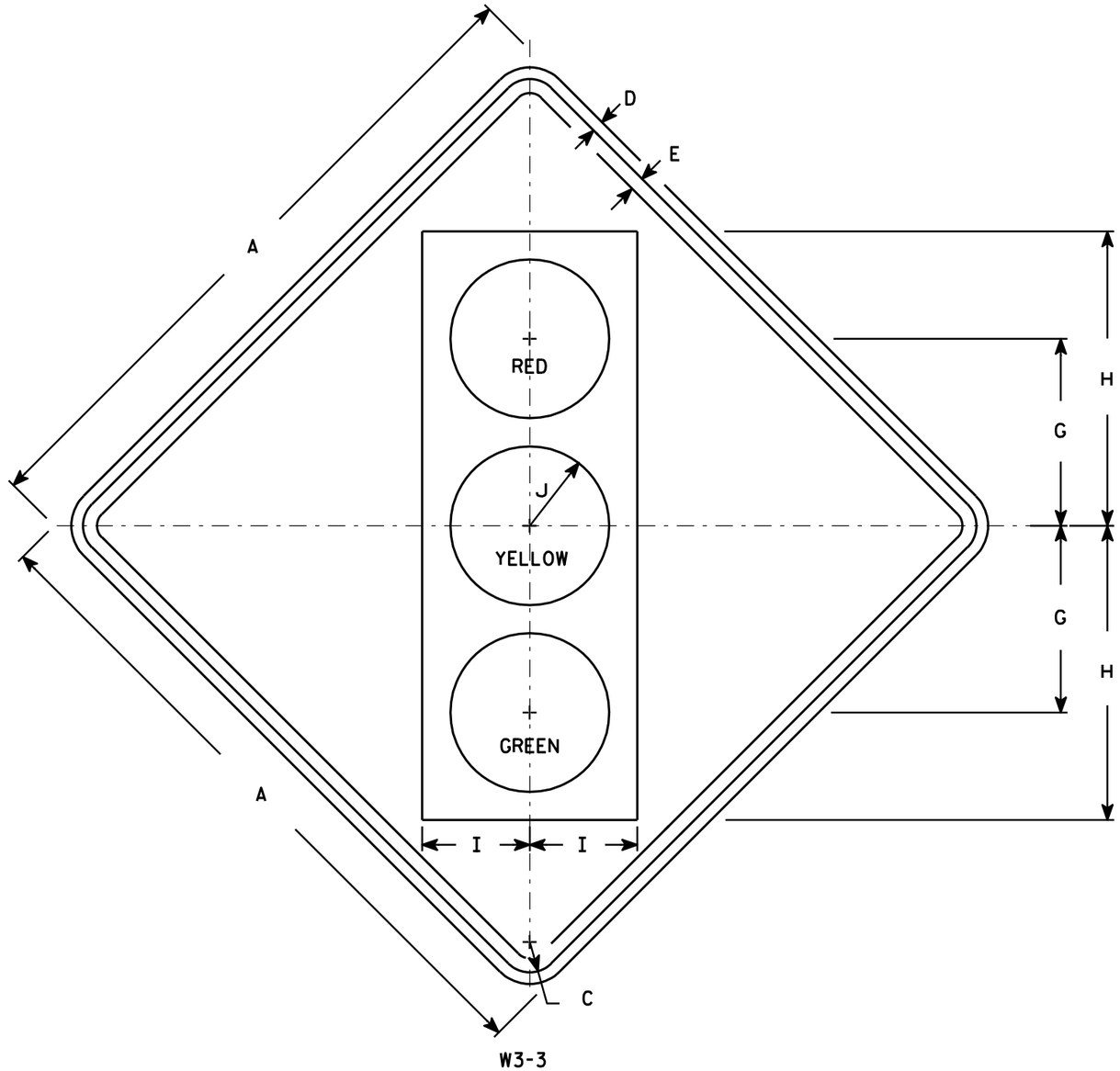
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W3-1.12

PROJECT NO:

SHEET NO: 178 E



W3-3

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 - 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. Symbol and border are non-reflective black.
   Top circle - Type H Reflectorized Red
   Center circle - Same as background
   Bottom circle - Type H Reflectorized Green

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		8 3/4	13 3/4	5	3 3/4																	6.25
2S	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
2M	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
3	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
4	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0
5	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0

STANDARD SIGN
W3-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W3-3.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 179 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W33.DGN PLOT DATE : 07-JUN-2010 13:07 PLOT BY : ditjph PLOT NAME : PLOT SCALE : 7.448805:1.000000
WISDOT/CADDS SHEET 42

See new sheet #180

RETAINING WALL R-51-44

WE ENERGIES ELECTRIC LINE TO REMAIN

R/L WEST FRONTAGE RD

4893 4892 4891 4890 4889

9'-6"

OUTLET PIPE UNDERDRAIN FROM FINISHED GRADE LOW PT TO SUITABLE DRAINAGE

WALL CURVE 1

CAUTION

WALL CURVE 2

GUARDRAIL, TYP.

R/L RETAINING WALL R-51-46

PC STA 0+92.24
(RETAINING WALL R-51-46)
NORTHING: 188409.0173
EASTING: 593806.5208

FRONT FACE OF RETAINING WALL

WE ENERGIES GAS LINE TO REMAIN

BEGIN RETAINING WALL
STA 4892+34.32, 20.95'LT (WEST FRONTAGE ROAD)
STA 0+00.00 (RETAINING WALL R-51-46)
NORTHING: 188501.0997
EASTING: 593811.9041

PCC STA 1+88.83
(RETAINING WALL R-51-46)
NORTHING: 188312.4738
EASTING: 593806.2368

PT STA 2+62.02
(RETAINING WALL R-51-46)
NORTHING: 188250.4693
EASTING: 593774.1573

PI STA 3+25.50
(RETAINING WALL R-51-46)
NORTHING: 188216.5712
EASTING: 593720.4935

TOWN OF YORKVILLE SANITARY SEWER LINES TO REMAIN

END RETAINING WALL
STA 63+74.40, 20.95'LT (CTH C)
STA 3+70.00 (RETAINING WALL R-51-46)
NORTHING: 188197.8589
EASTING: 593680.1149

R/L CTH C

RETAINING WALL R-51-44

WE ENERGIES ELECTRIC LINE TO BE RELOCATED BY OTHERS

WEST FRONTAGE ROAD

PGL CTH C EB

CTH C

PGL CTH C WB

PLAN

BEGIN RETAINING WALL
STA 4892+34.32, 20.95'LT (WEST FRONTAGE ROAD)
STA 0+00.00 (RETAINING WALL R-51-46)

END RETAINING WALL
STA 63+74.40, 20.95'LT (CTH C)
STA 3+70.00 (RETAINING WALL R-51-46)

370'-0"

20'-0" (E) 30'-0" (E) 30'-0" (E) 30'-0" (E) 30'-0" (E) 30'-0" (E) 30'-0" (E) 30'-0" (E) 30'-0" (E) 30'-0" (E) 30'-0" (E) 30'-0" (E) 30'-0" (E) 30'-0" (E) 20'-0"

780
770
760
750
740

TOP OF WALL

SLOPED FACE PARAPET TYPE "HF" MODIFIED

EXISTING GROUND LINE

3

1

3'-0" TYP.

EXISTING GROUND / FINISHED GRADE LINE

BOTTOM OF WALL / TOP OF LEVELING PAD (3'-0" MIN BELOW EXISTING GROUND / FINISHED GRADE LINE)

FINISHED GRADE LINE

BOTTOM PAY LIMIT OF "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH SPECIAL", TYP

SEE SHEET 8 AND 9 FOR RETAINING WALL PATTERN / AESTHETIC TREATMENT

ELEVATION

(LOOKING AT FRONT FACE OF WALL)
(ALL DIMENSIONS AND STATIONS GIVEN ALONG THE FRONT FACE OF WALL)

STATE PROJECT NUMBER

1033-02-74

LIST OF DRAWINGS

1. GENERAL PLAN & ELEVATION
2. TYPICAL WALL SECTION & ELEVATION TABLE
3. QUANTITIES, NOTES, & PROFILE GRADE LINES
4. PARAPET & COPING ELEVATION
5. PARAPET, ANCHOR SLAB & COPING DETAILS
6. SLOPED FACE PARAPET "HF" MODIFIED
7. AESTHETIC WALL ELEVATION
8. AESTHETIC WALL TREATMENT DETAILS
9. SUBSURFACE EXPLORATION

LEGEND

(E) EXPANSION JOINT IN ANCHOR SLAB, COPING, AND PARAPET

TRAFFIC DIRECTION

PROVIDE ANCHOR ASSEMBLY FOR THRIE BEAM GUARD RAIL ATTACHMENT

WISCONSIN
KARL E. SCHMID
E-30812
MILWAUKEE, WI
PROFESSIONAL ENGINEER

11/3/2010

STRUCTURES DESIGN CONTACTS

BRIDGE OFFICE:
WILLIAM DREHER (608) 266-8489
CONSULTANT:
KARL SCHMID (262) 548-8703

Milwaukee Transportation Partners LLC

NO.	DATE	REVISION	BY

Plans Prepared For WISDOT
BUREAU OF STRUCTURES
APPROVED William C. Dreher KAB 11/10/10
CHIEF STRUCTURAL DESIGN ENGINEER DATE

STRUCTURE R-51-46

WEST FRONTAGE ROAD RETAINING WALL AT CTH C

COUNTY: RACINE		TOWN/~~CITY/VILLAGE~~: YORKVILLE/MT PLEASANT	
DESIGN SPEC.: AASHTO STD. SPEC. 2003		LOAD: -- -	CONST. SPEC.: 2010
DESIGNED BY: AJB	DESIGN CK'D.: ACP	DRAWN BY: JLK	PLANS CK'D.: KES

SHEET 1 OF 9

GENERAL PLAN & ELEVATION

180

8

8

FILE NAME : S:\homeWork\Glen McGinn\R-51-46\cds\R5146Sht01.dgn PLOT DATE : 03-NOV-2010 10:48 PLOT BY : mscglm PLOT NAME : R5146Sht01 PLOT SCALE : 40:1

STATE PROJECT NUMBER

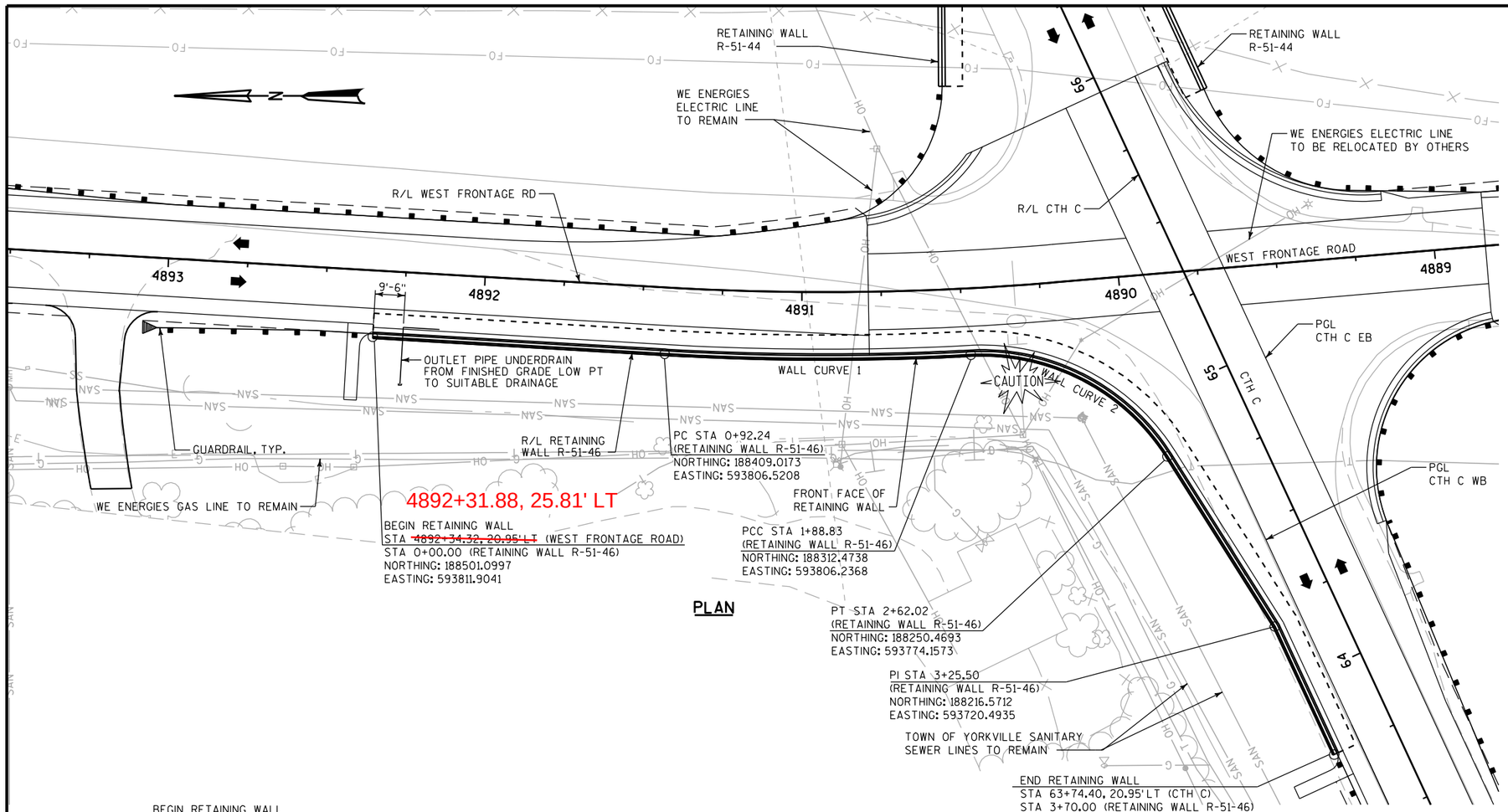
1033-02-74

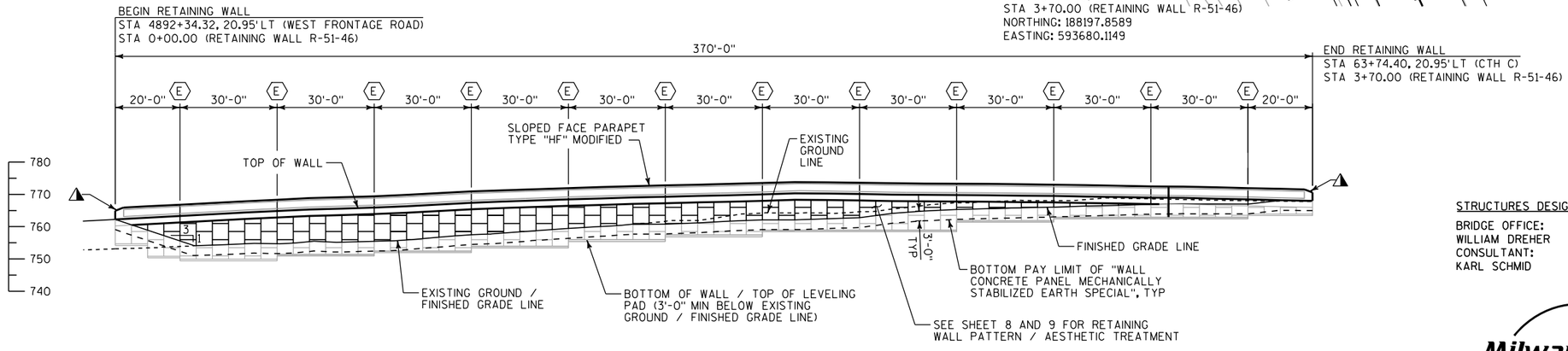
LIST OF DRAWINGS

1. GENERAL PLAN & ELEVATION
2. TYPICAL WALL SECTION & ELEVATION TABLE
3. QUANTITIES, NOTES, & PROFILE GRADE LINES
4. PARAPET & COPING ELEVATION
5. PARAPET, ANCHOR SLAB & COPING DETAILS
6. SLOPED FACE PARAPET "HF" MODIFIED
7. AESTHETIC WALL ELEVATION
8. AESTHETIC WALL TREATMENT DETAILS
9. SUBSURFACE EXPLORATION

LEGEND

- (E) EXPANSION JOINT IN ANCHOR SLAB, COPING, AND PARAPET
- TRAFFIC DIRECTION
- PROVIDE ANCHOR ASSEMBLY FOR THRIE BEAM GUARD RAIL ATTACHMENT





ELEVATION

(LOOKING AT FRONT FACE OF WALL)
(ALL DIMENSIONS AND STATIONS GIVEN ALONG THE FRONT FACE OF WALL)

WISCONSIN
KARL E. SCHMID
E-30812
MILWAUKEE, WI
PROFESSIONAL ENGINEER

11/3/2010

STRUCTURES DESIGN CONTACTS

BRIDGE OFFICE:
WILLIAM DREHER (608) 266-8489
CONSULTANT:
KARL SCHMID (262) 548-8703

Milwaukee Transportation Partners LLC

NO.	DATE	REVISION	BY

Plans Prepared For WISDOT
BUREAU OF STRUCTURES

APPROVED William C. Dreher KAB 11/10/10
CHIEF STRUCTURAL DESIGN ENGINEER DATE

STRUCTURE R-51-46

WEST FRONTAGE ROAD RETAINING WALL AT CTH C

COUNTY: RACINE		TOWN/~~CITY/VILLAGE~~: YORKVILLE/MT PLEASANT	
DESIGN SPEC.: AASHTO STD. SPEC. 2003		LOAD: ----	CONST. SPEC.: 2010
DESIGNED BY: AJB	DESIGN CK'D.: ACP	DRAWN BY: JLK	PLANS CK'D.: KES

GENERAL PLAN & ELEVATION

SHEET 1 OF 9

180

8

8

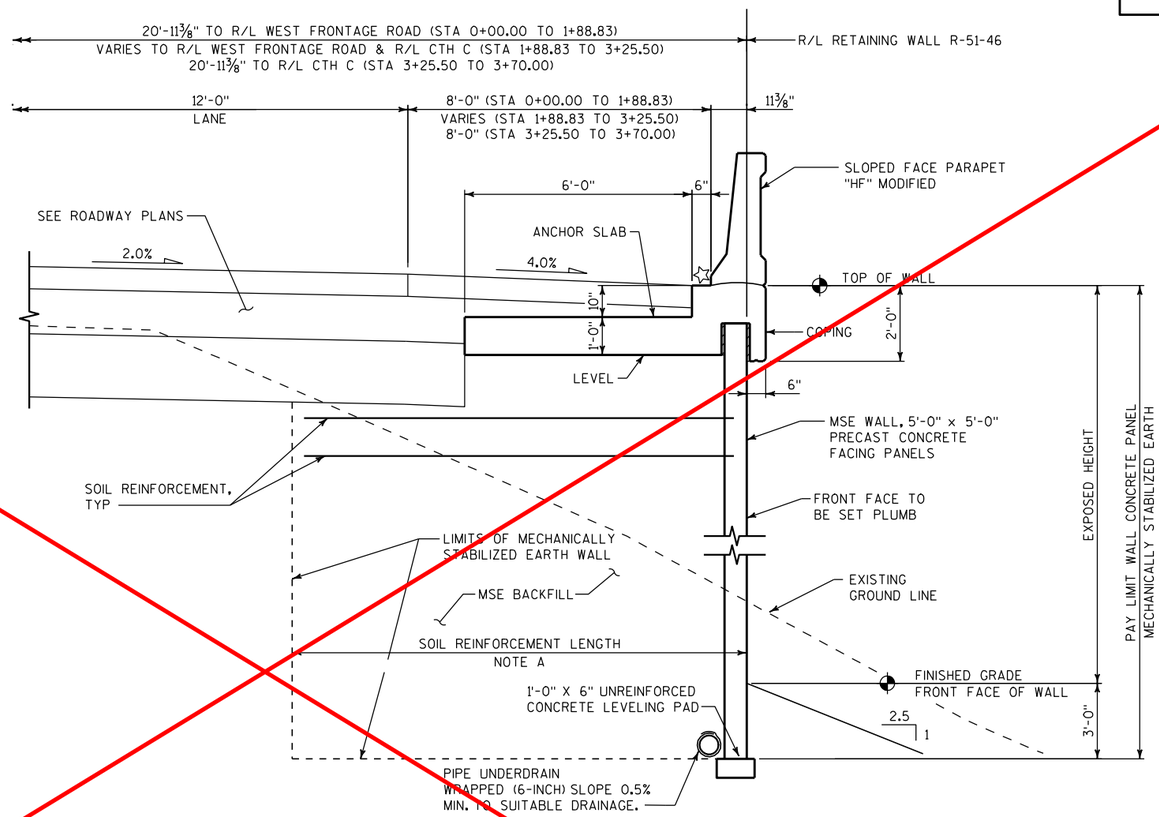
STATE PROJECT NUMBER

1033-02-74

WALL ELEVATIONS ◪

R-51-46 STATION	TOP OF WALL EL.	FINISHED GRADE EL.	EXISTING GROUND EL.
0+00.00	762.24	762.25	753.16
0+10.00	762.73	758.25	753.48
0+20.00	763.21	754.25	753.92
0+30.00	763.69	754.32	754.32
0+40.00	764.15	754.70	754.70
0+50.00	764.60	754.74	754.74
0+60.00	765.04	755.38	755.38
0+70.00	765.46	755.20	755.20
0+80.00	765.87	755.49	755.49
0+90.00	766.27	755.91	755.91
1+00.00	766.65	756.74	756.74
1+10.00	767.02	757.48	757.48
1+20.00	767.37	758.00	758.00
1+30.00	767.71	758.80	758.80
1+40.00	768.04	759.45	759.45
1+50.00	768.36	760.05	760.05
1+60.00	768.66	760.74	760.74
1+70.00	768.86	760.80	761.68
1+80.00	769.13	761.17	761.95
1+90.00	769.36	761.73	763.45
2+00.00	769.52	762.09	764.27
2+10.00	769.68	762.13	764.21
2+20.00	769.84	761.96	764.23
2+30.00	769.98	762.75	764.63
2+40.00	769.93	764.08	765.53
2+50.00	769.88	764.86	766.60
2+60.00	769.83	765.28	767.44
2+70.00	769.77	765.55	767.71
2+80.00	769.63	765.82	768.15
2+90.00	769.50	766.03	768.03
3+00.00	769.36	766.35	768.44
3+10.00	769.27	766.61	768.83
3+20.00	769.12	766.92	768.69
3+30.00	768.94	767.02	768.49
3+40.00	768.72	766.99	768.26
3+50.00	768.50	766.99	768.08
3+60.00	768.26	768.11	767.96
3+70.00	768.03	768.03	767.77

◪ = LINEARLY INTERPOLATE WALL ELEVATIONS BETWEEN STATIONS.



TYPICAL SECTION

(LOOKING WEST - CTH C)
(LOOKING SOUTH - WEST FRONTAGE ROAD)

LEGEND

☆ LEVEL

NOTE A

SEE SAFETY FACTOR TABLE ON SHEET 3 FOR MINIMUM LENGTH OF MSE WALL REINFORCING STRIPS. SOIL REINFORCEMENT MUST EXTEND A MINIMUM OF 3.0 FEET BEYOND THE FAILURE PLANE FOR INTERNAL STABILITY AS DEFINED BY AASHTO SPECIFICATIONS.

See new sheet #181

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-51-46

CONST. SPEC. 2010	DRAWN BY JLK	PLANS CHKD. KES

TYPICAL WALL SECTION & ELEVATION TABLE

SHEET 2 OF 9

181

8

8

FILE NAME : S:\homeWork\Glen McGinn\R-51-46\cds\R5146Sht02.dgn PLOT DATE : 03-NOV-2010 10:48 PLOT BY : mscglm PLOT NAME : R5146Sht02 PLOT SCALE : 4:1

STATE PROJECT NUMBER

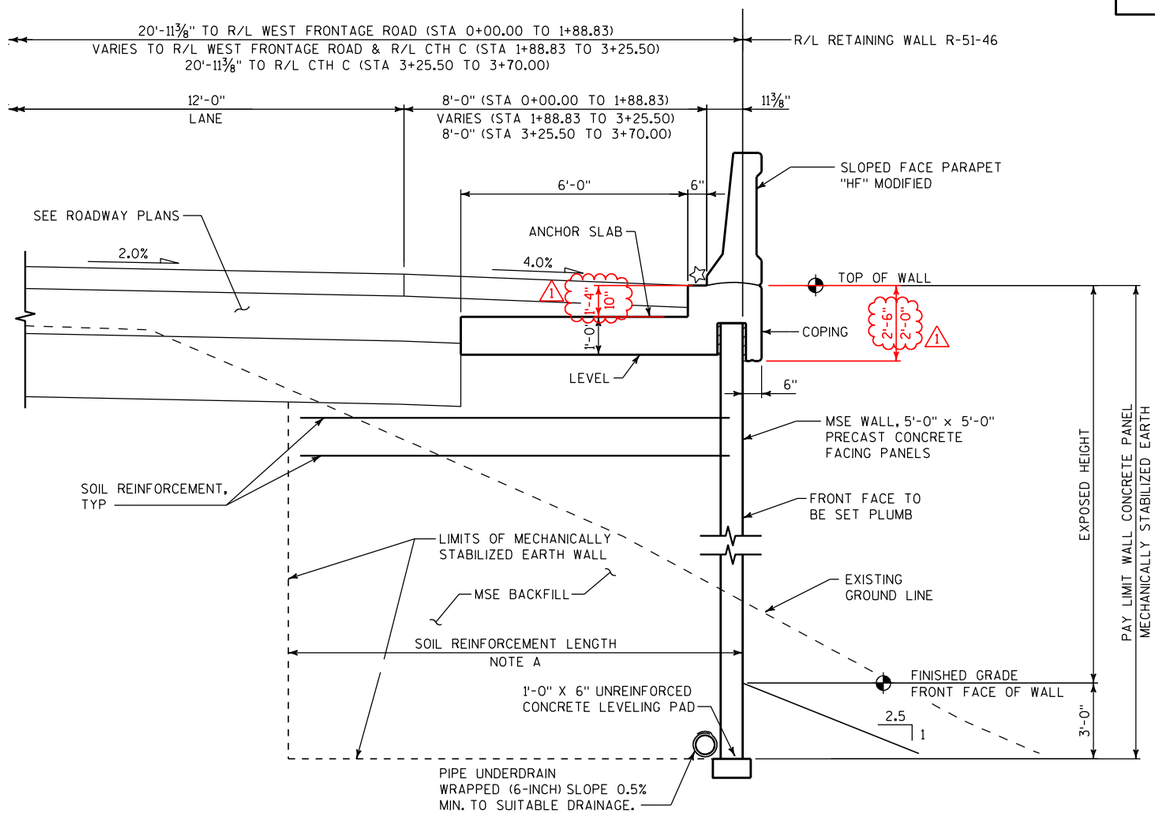
1033-02-74

WALL ELEVATIONS

R-51-46 STATION	TOP OF WALL EL.	FINISHED GRADE EL.	EXISTING GROUND EL.
0+00.00	762.37	762.25	753.16
0+10.00	762.93	758.25	753.48
0+20.00	763.46	754.25	753.92
0+30.00	763.98	754.32	754.32
0+40.00	764.49	754.70	754.70
0+50.00	764.97	754.74	754.74
0+60.00	765.44	755.38	755.38
0+70.00	765.90	755.20	755.20
0+80.00	766.35	755.49	755.49
0+90.00	766.75	755.91	755.91
1+00.00	767.12	756.74	756.74
1+10.00	767.48	757.48	757.48
1+20.00	767.83	758.00	758.00
1+30.00	768.16	758.80	758.80
1+40.00	768.49	759.45	759.45
1+50.00	768.79	760.05	760.05
1+60.00	769.09	760.74	760.74
1+70.00	769.33	760.80	761.68
1+80.00	769.55	761.17	761.95
1+90.00	769.76	761.73	763.45
2+00.00	769.92	762.09	764.27
2+10.00	770.00	762.13	764.21
2+20.00	769.99	761.96	764.23
2+30.00	769.98	762.75	764.63
2+40.00	769.96	764.08	765.53
2+50.00	769.95	764.86	766.60
2+60.00	769.89	765.28	767.44
2+70.00	769.79	765.55	767.71
2+80.00	769.67	765.82	768.15
2+90.00	769.55	766.03	768.03
3+00.00	769.42	766.35	768.44
3+10.00	769.28	766.61	768.83
3+20.00	769.13	766.92	768.69
3+30.00	768.94	767.02	768.49
3+40.00	768.72	766.99	768.26
3+50.00	768.50	766.99	768.08
3+60.00	768.26	768.11	767.96
3+70.00	768.01	768.03	767.77

1

◹ = LINEARLY INTERPOLATE WALL ELEVATIONS BETWEEN STATIONS.



TYPICAL SECTION

(LOOKING WEST - CTH C)
(LOOKING SOUTH - WEST FRONTAGE ROAD)

LEGEND

☆ LEVEL

NOTE A

SEE SAFETY FACTOR TABLE ON SHEET 3 FOR MINIMUM LENGTH OF MSE WALL REINFORCING STRIPS. SOIL REINFORCEMENT MUST EXTEND A MINIMUM OF 3.0 FEET BEYOND THE FAILURE PLANE FOR INTERNAL STABILITY AS DEFINED BY AASHTO SPECIFICATIONS.

NO.	DATE	REVISION	BY
1	10/4/11	REVISED TOP OF WALL ELEVATIONS	EKM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-51-46

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2010	JLK	KES

TYPICAL WALL SECTION & ELEVATION TABLE

SHEET 2 OF 9

181

8

8

STATE PROJECT NUMBER

1033-02-74

TOTAL ESTIMATED QUANTITIES

BID ITEM NO.	BID ITEMS	UNIT	TOTAL
504.0500	CONCRETE MASONRY RETAINING WALLS	CY	173*
505.0615	BAR STEEL REINFORCEMENT HS COATED RETAINING WALLS	LB	26,860
416.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	16
614.0150	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	400
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	2
SPV.0165.401	WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH SPECIAL	SF	3,500
SPV.0165.402	STAINING CONCRETE	SF	4,250
	NON-BID ITEMS		
	PREFORMED JOINT FILLER	SIZE	1"
	NON-BITUMINOUS JOINT SEALER	SIZE	1"
	CORK FILLER	SIZE	1"

ALL ITEMS ARE CATEGORY 3035

* THE QUANTITY OF "CONCRETE MASONRY RETAINING WALLS" IS BASED ON A 3" PANEL EMBEDMENT INTO THE ANCHOR SLAB AND COPING AT THE BACK FACE OF THE PANEL.

SOIL PARAMETERS

SOIL DESCRIPTION	UNIT WEIGHT (PCF)	SHORT-TERM (UNDRAINED)		LONG-TERM (DRAINED)	
		FRICTION ANGLE (DEGREES)	COHESION (PSF)	FRICTION ANGLE (DEGREES)	COHESION (PSF)
SILTY CLAY	125	0	500	26	100
LEAN CLAY	135	0	800	27	200
RETAINED FILL *	125	30	0	30	0

* DESIGN WALL FOR THESE VALUES

SAFETY FACTORS FOR MSE WALLS

MINIMUM DOT STANDARD	STA 0+84 10.4 FT WALL	STA 1+89 7.6 FT WALL
SLIDING (FS ≥ 1.5)	2.3	2.0
OVERTURNING (FS ≥ 2.0)	3.1	3.1
GLOBAL STABILITY (FS ≥ 1.3)	1.8	1.4
ALLOWABLE BEARING CAPACITY (FS ≥ 2.0)	5,000 PSF	2,500 PSF
SOIL REINFORCMENT LENGTH (8.0 FT MIN)	0.70 x HEIGHT	0.70 x HEIGHT
MINIMUM WALL EMBEDMENT	3.0 FEET	3.0 FEET

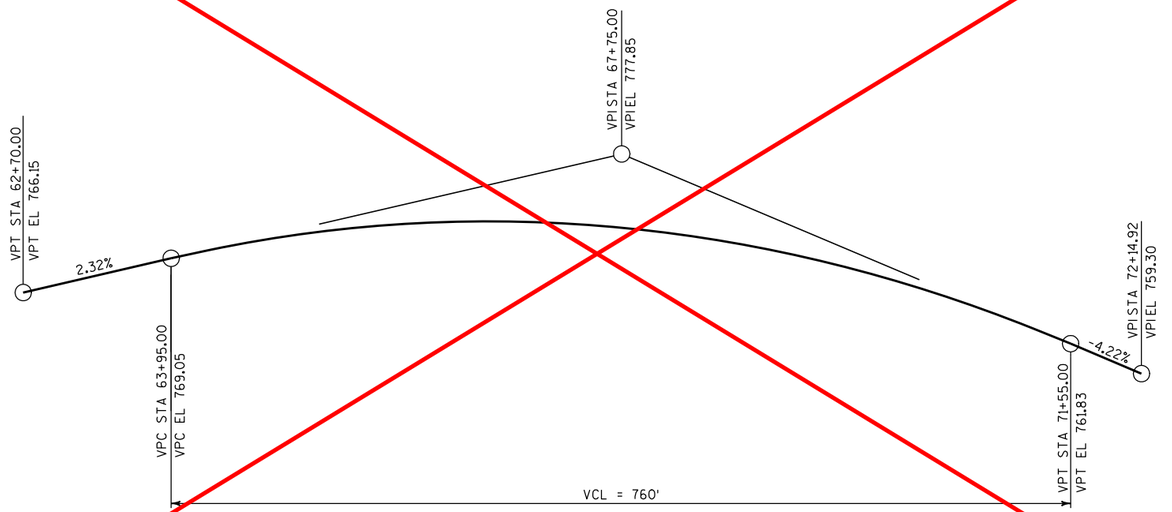
HORIZONTAL CURVE DATA

WALL CURVE 1

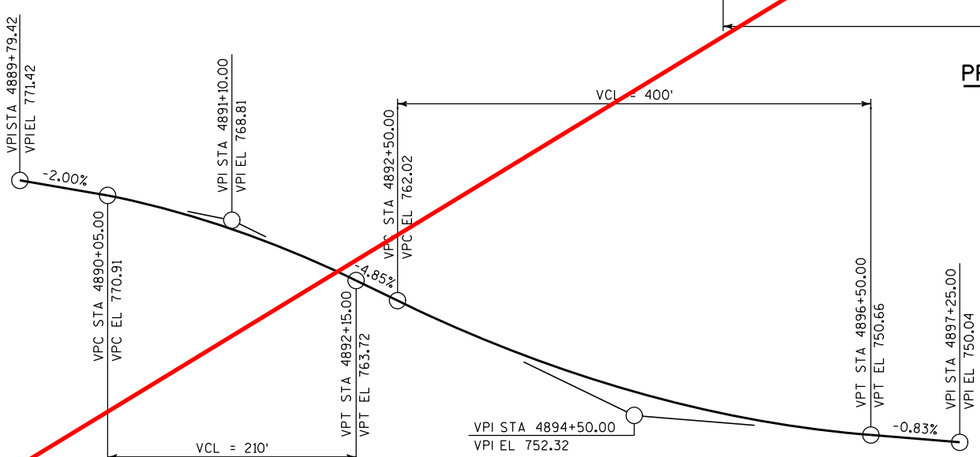
PI = STA 1+40.59
N : 188360.7535
E : 593803.6992
△ = 6°21'16.03" LT
D = 6°34'42.79"
T = 48.35
L = 96.59
R = 870.95
E = 1.34
PC = STA 0+92.24
N : 188409.0173
E : 593806.5208
PRC = STA 1+88.83
N : 188312.4738
E : 593806.2368

WALL CURVE 2

PI = STA 2+29.29
N : 188272.0744
E : 593808.3601
△ = 60°43'44.47" RT
D = 82°58'29.02"
T = 40.46
L = 73.19
R = 69.05
E = 1.34
PC = STA 1+88.83
N : 188312.4738
E : 593806.2368
PRC = STA 2+62.02
N : 188250.4693
E : 593774.1573



PROFILE GRADE LINE - CTH C



PROFILE GRADE LINE - WEST FRONTAGE ROAD

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

BEVEL EXPOSED EDGES OF CONCRETE ¾" UNLESS NOTED OTHERWISE.

ALL STATIONS AND ELEVATIONS ARE IN FEET, ELEVATIONS ARE REFERENCED TO THE NAVD 88 DATUM.

ALL DIMENSIONS ARE ALONG THE FRONT FACE OF WALL UNLESS NOTED OTHERWISE.

USE 2" CLEAR CONCRETE COVER FOR ALL REINFORCEMENT UNLESS NOTED OTHERWISE.

EXISTING GROUND LINE IS THE UPPER LIMIT OF EXCAVATION FOR STRUCTURES.

THESE PLANS ARE FOR A PRECAST CONCRETE PANEL MECHANICALLY STABILIZED EARTH (MSE) RETAINING WALL. MAXIMUM PANEL SIZE WILL BE 5'-0" X 5'-0".

THE CONTRACTOR SHALL PROVIDE COMPLETE DESIGN, PLANS, DETAILS, SPECIFICATIONS, AND SHOP DRAWINGS FOR THE RETAINING WALLS IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THE RETAINING WALL MANUFACTURER SHALL PROVIDE TECHNICAL ASSISTANCE TO THE CONTRACTOR DURING CONSTRUCTION. THE COST OF FURNISHING THESE ITEMS IS INCLUDED IN THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH SPECIAL".

THE COST OF FURNISHING AND PLACING THE UNREINFORCED CONCRETE LEVELING PAD UNDER THE MSE PRECAST WALL PANELS IS TO BE INCLUDED IN THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH SPECIAL".

ALL BAR STEEL REINFORCEMENT IN CAST-IN-PLACE CONCRETE IS TO BE EPOXY COATED.

THE QUANTITY OF CONCRETE MASONRY FOR THE CAST-IN-PLACE ANCHOR SLAB/COPING AND THE PARAPETS IS PAID FOR UNDER THE ITEM "CONCRETE MASONRY RETAINING WALLS".

THE PLAN QUANTITY FOR THE ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH SPECIAL" IS BASED ON A WALL HEIGHT MEASURED FROM 3'-0" BELOW THE FINISHED GRADE AT FRONT FACE OF WALL TO THE TOP OF WALL AS SHOWN IN THE PLANS. WALL AREAS CONSTRUCTED OUTSIDE THESE LIMITS WILL NOT BE MEASURED FOR PAYMENT.

PLANS, ELEVATIONS, AND DETAILS SHOWN ON THESE DRAWINGS ARE INTENDED TO INDICATE WALL LOCATIONS, LENGTHS, HEIGHTS, AND DETAILS COMMON TO THE WALL SYSTEM SELECTED. THE CONTRACTOR SHALL VERIFY THAT THE WALL SYSTEM SELECTED WILL CONFORM TO THE REQUIRED ALIGNMENTS AND DETAILS.

THE MAXIMUM VALUE OF THE ANGLE OF INTERNAL FRICTION OF THE WALL BACKFILL MATERIAL IN THE REINFORCED ZONE SHALL BE ASSUMED TO BE 30° WITHOUT CERTIFIED TEST VALUES.

SEE SPECIAL PROVISIONS FOR AESTHETIC TREATMENT TO WALL.

DESIGN DATA

MATERIAL PROPERTIES:
CONCRETE MASONRY RETAINING WALL _____ f'c = 4,000 PSI
PRECAST CONCRETE WALL PANELS _____ f'c = 4,000 PSI
BAR STEEL REINFORCEMENT _____ fy = 60,000 PSI
STRUCTURAL STEEL CARBON _____ fy = 36,000 PSI
(ASTM A709 GRADE 36)

LIVE LOAD:
LIVE LOAD SURCHARGE _____ 240 PSF (TRAFFIC)

DESIGN THE TYPICAL RETAINING WALL FOR A HORIZONTAL BACKSLOPE BEHIND THE WALL AND A LIVE LOAD SURCHARGE OF 240 PSF ON THE HORIZONTAL BACKSLOPE, UNLESS NOTED OTHERWISE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-51-46

CONST. SPEC. 2010	DRAWN BY JLK	PLANS CHKD. KES

QUANTITIES, NOTES & PROFILE GRADE LINES

SHEET 3 OF 9

182

See new sheet #182

8

8

FILE NAME : S:\homeWork\Glen McGinn\R-51-46\cds\R5146Sht03.dgn PLOT DATE : 03-NOV-2010 10:48 PLOT BY : mscglm PLOT NAME : R5146Sht03 PLOT SCALE : 4:1

STATE PROJECT NUMBER
1033-02-74

TOTAL ESTIMATED QUANTITIES

BID ITEM NO.	BID ITEMS	UNIT	TOTAL
504.0500	CONCRETE MASONRY RETAINING WALLS	CY	184 *
505.0615	BAR STEEL REINFORCEMENT HS COATED RETAINING WALLS	LB	28,635
416.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	16
614.0150	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	400
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	2
SPV.0165.401	WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH SPECIAL	SF	3,500
SPV.0165.402	STAINING CONCRETE	SF	4,250
	NON-BID ITEMS		
	PREFORMED JOINT FILLER	SIZE	1"
	NON-BITUMINOUS JOINT SEALER	SIZE	1"
	CORK FILLER	SIZE	1"

ALL ITEMS ARE CATEGORY 3035

* THE QUANTITY OF "CONCRETE MASONRY RETAINING WALLS" IS BASED ON A 3" PANEL EMBEDMENT INTO THE ANCHOR SLAB AND COPING AT THE BACK FACE OF THE PANEL.

SOIL PARAMETERS

SOIL DESCRIPTION	UNIT WEIGHT (PCF)	SHORT-TERM (UNDRAINED)		LONG-TERM (DRAINED)	
		FRICTION ANGLE (DEGREES)	COHESION (PSF)	FRICTION ANGLE (DEGREES)	COHESION (PSF)
SILTY CLAY	125	0	500	26	100
LEAN CLAY	135	0	800	27	200
RETAINED FILL *	125	30	0	30	0

* DESIGN WALL FOR THESE VALUES

SAFETY FACTORS FOR MSE WALLS

MINIMUM DOT STANDARD	STA 0+84 10.4 FT WALL	STA 1+89 7.6 FT WALL
SLIDING (FS ≥ 1.5)	2.3	2.0
OVERTURNING (FS ≥ 2.0)	3.1	3.1
GLOBAL STABILITY (FS ≥ 1.3)	1.8	1.4
ALLOWABLE BEARING CAPACITY (FS ≥ 2.0)	5,000 PSF	2,500 PSF
SOIL REINFORCMENT LENGTH (8.0 FT MIN)	0.70 x HEIGHT	0.70 x HEIGHT
MINIMUM WALL EMBEDMENT	3.0 FEET	3.0 FEET

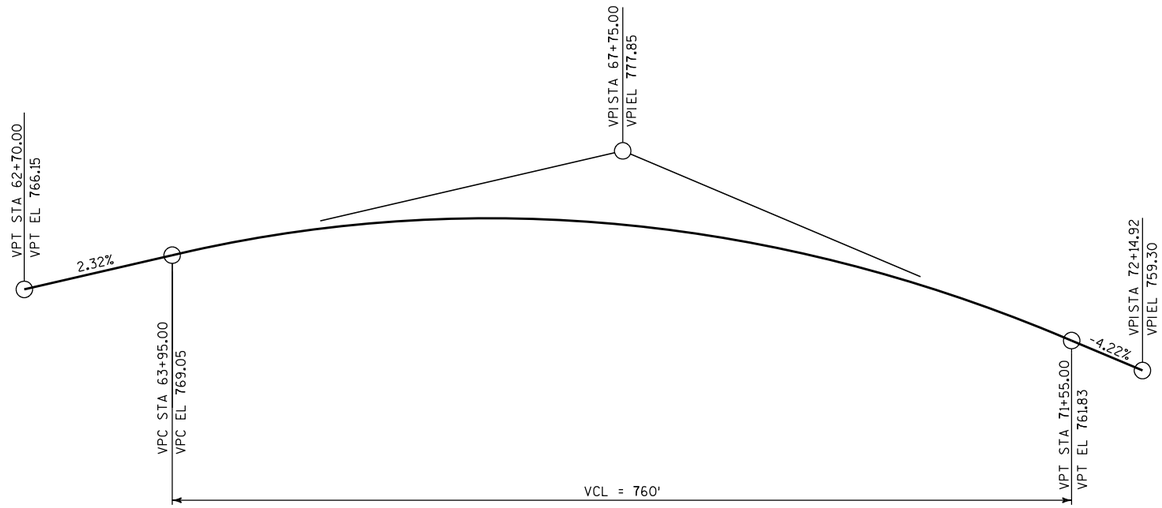
HORIZONTAL CURVE DATA

WALL CURVE 1

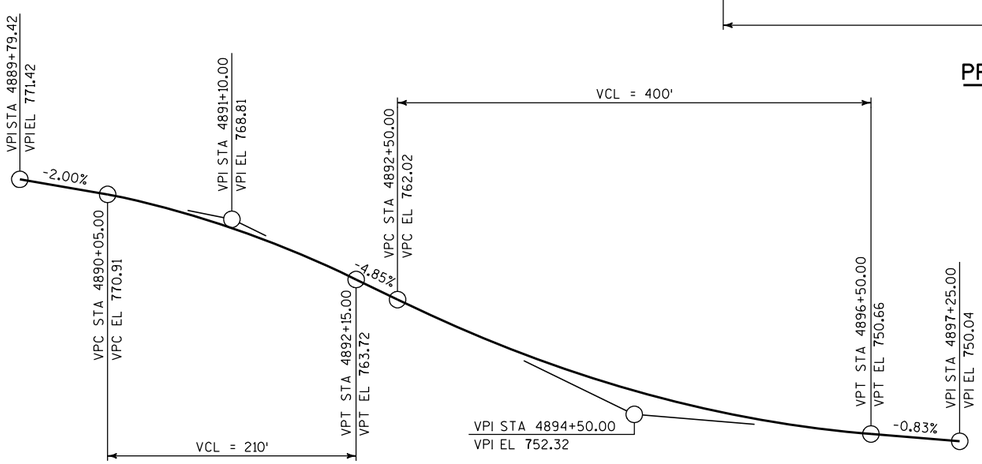
PI = STA 1+40.59
N : 188360.7535
E : 593803.6992
△ = 6°21'16.03" LT
D = 6°34'42.79"
T = 48.35
L = 96.59
R = 870.95
E = 1.34
PC = STA 0+92.24
N : 188409.0173
E : 593806.5208
PRC = STA 1+88.83
N : 188312.4738
E : 593806.2368

WALL CURVE 2

PI = STA 2+29.29
N : 188272.0744
E : 593808.3601
△ = 60°43'44.47" RT
D = 82°58'29.02"
T = 40.46
L = 73.19
R = 69.05
E = 1.34
PC = STA 1+88.83
N : 188312.4738
E : 593806.2368
PRC = STA 2+62.02
N : 188250.4693
E : 593774.1573



PROFILE GRADE LINE - CTH C



PROFILE GRADE LINE - WEST FRONTAGE ROAD

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

BEVEL EXPOSED EDGES OF CONCRETE ¾", UNLESS NOTED OTHERWISE.

ALL STATIONS AND ELEVATIONS ARE IN FEET, ELEVATIONS ARE REFERENCED TO THE NAVD 88 DATUM.

ALL DIMENSIONS ARE ALONG THE FRONT FACE OF WALL UNLESS NOTED OTHERWISE.

USE 2" CLEAR CONCRETE COVER FOR ALL REINFORCEMENT UNLESS NOTED OTHERWISE.

EXISTING GROUND LINE IS THE UPPER LIMIT OF EXCAVATION FOR STRUCTURES.

THESE PLANS ARE FOR A PRECAST CONCRETE PANEL MECHANICALLY STABILIZED EARTH (MSE) RETAINING WALL. MAXIMUM PANEL SIZE WILL BE 5'-0" X 5'-0".

THE CONTRACTOR SHALL PROVIDE COMPLETE DESIGN, PLANS, DETAILS, SPECIFICATIONS, AND SHOP DRAWINGS FOR THE RETAINING WALLS IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THE RETAINING WALL MANUFACTURER SHALL PROVIDE TECHNICAL ASSISTANCE TO THE CONTRACTOR DURING CONSTRUCTION. THE COST OF FURNISHING THESE ITEMS IS INCLUDED IN THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH SPECIAL".

THE COST OF FURNISHING AND PLACING THE UNREINFORCED CONCRETE LEVELING PAD UNDER THE MSE PRECAST WALL PANELS IS TO BE INCLUDED IN THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH SPECIAL".

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SEE SPECIAL PROVISIONS FOR AESTHETIC TREATMENT TO WALL.

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STRUCTURAL STEEL CARBON _____ fy = 36,000 PSI
(ASTM A709 GRADE 36)

LIVE LOAD:
LIVE LOAD SURCHARGE _____ 240 PSF (TRAFFIC)

DESIGN THE TYPICAL RETAINING WALL FOR A HORIZONTAL BACKSLOPE BEHIND THE WALL AND A LIVE LOAD SURCHARGE OF 240 PSF ON THE HORIZONTAL BACKSLOPE, UNLESS NOTED OTHERWISE.

NO.	DATE	REVISION	BY
1	10/4/11	REVISED QUANTITIES	EKM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-51-46

CONST. SPEC. 2010	DRAWN BY JLK	PLANS CK'D. KES

QUANTITIES, NOTES & PROFILE GRADE LINES

SHEET 3 OF 9

182

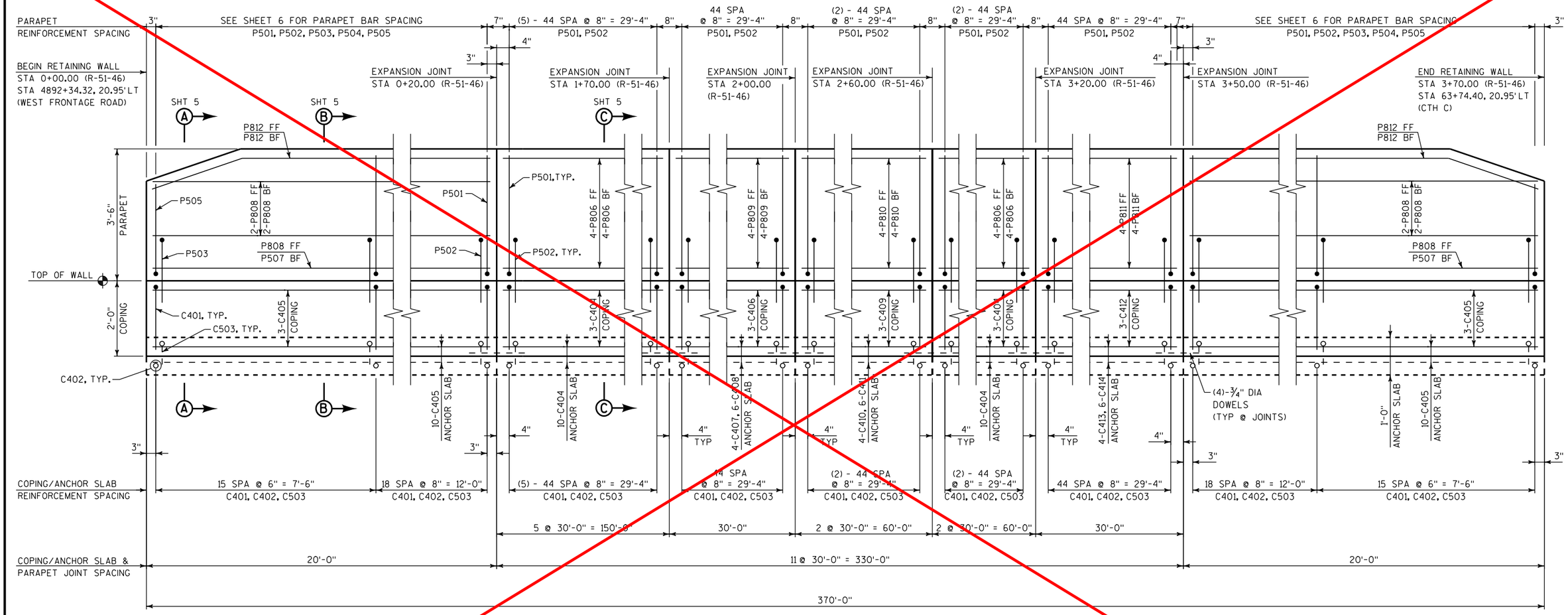
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STATE PROJECT NUMBER

1033-02-74



ELEVATION OF COPING & PARAPET

LOOKING EAST AT FRONT FACE OF WALL - WEST FRONTAGE ROAD
LOOKING SOUTH AT FRONT FACE OF WALL - CTH C

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-51-46

CONST. SPEC. 2010	DRAWN BY JLK	PLANS C'KD. KES

PARAPET & COPING ELEVATION

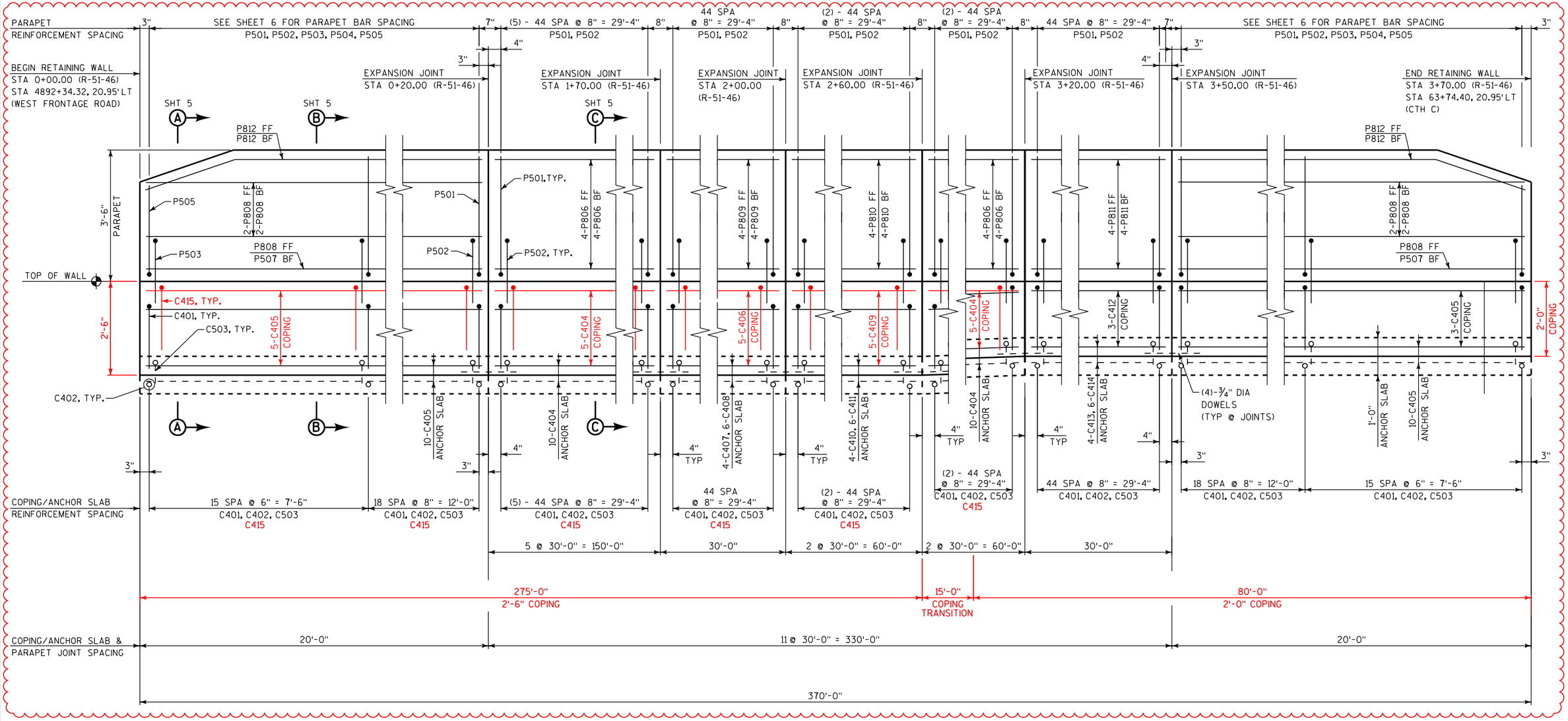
SHEET 4 OF 9

183

See new sheet #183

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STATE PROJECT NUMBER
1033-02-74



ELEVATION OF COPING & PARAPET

LOOKING EAST AT FRONT FACE OF WALL - WEST FRONTAGE ROAD
LOOKING SOUTH AT FRONT FACE OF WALL - CTH C

NO.	DATE	REVISION	BY
1	10/4/11	REVISED BAR LAYOUT	EKM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-51-46

CONST. SPEC. 2010	DRAWN BY JLK	PLANS CK'D. KES

PARAPET & COPING ELEVATION

SHEET 4 OF 9

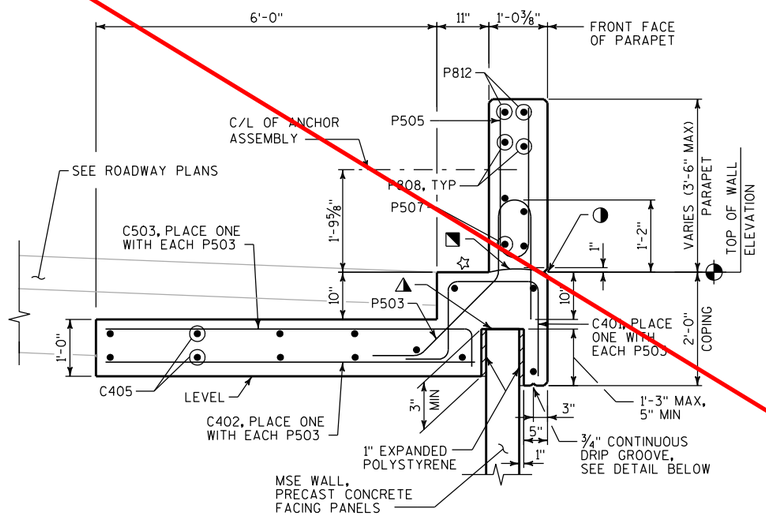
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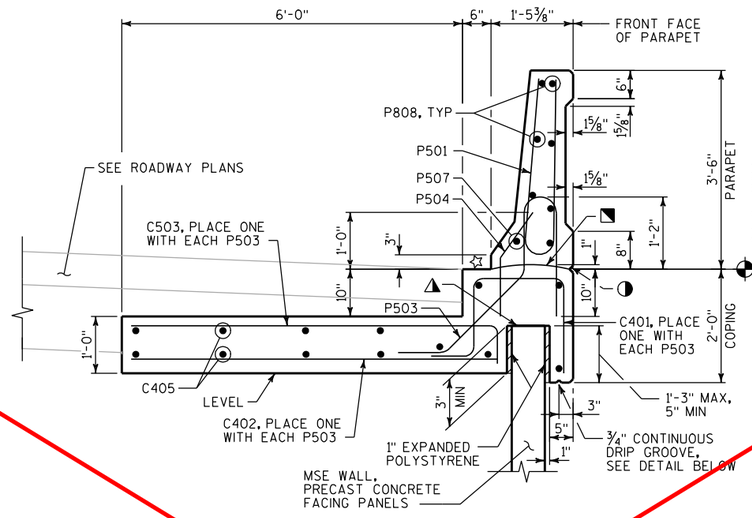
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STATE PROJECT NUMBER

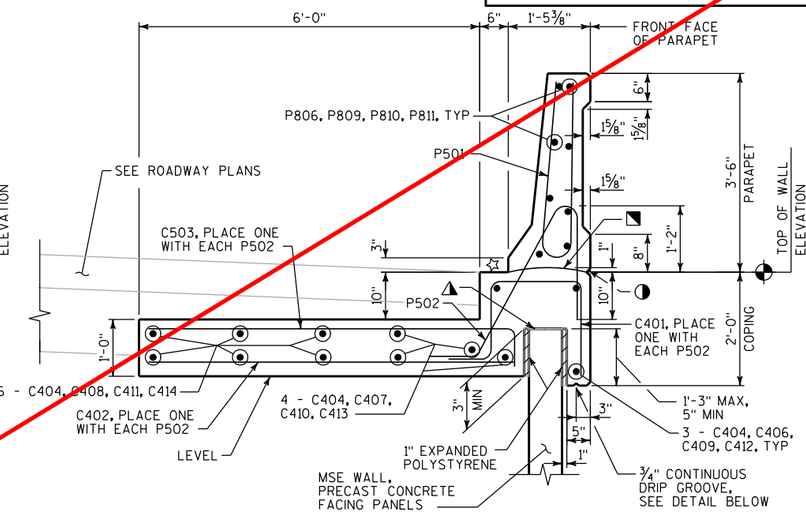
1033-02-74



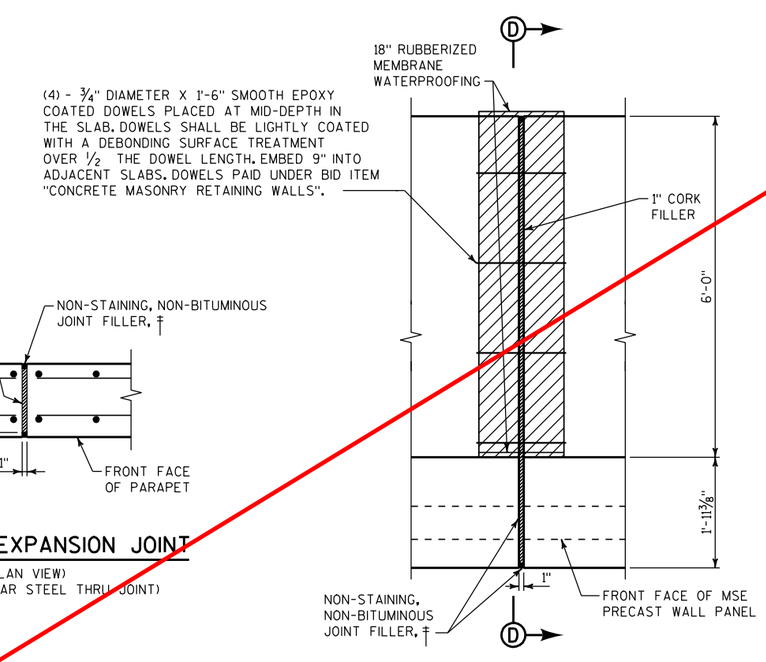
SECTION A-A



SECTION B-B

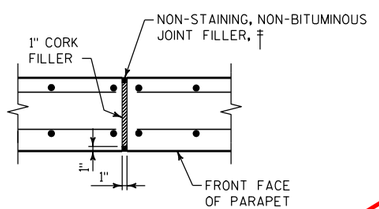


SECTION C-C



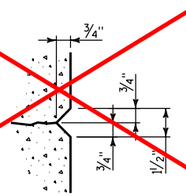
ANCHOR SLAB EXPANSION JOINT

(PLAN VIEW)
(ANCHOR SLAB REINFORCING NOT SHOWN)

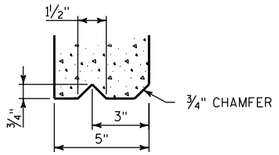


PARAPET EXPANSION JOINT

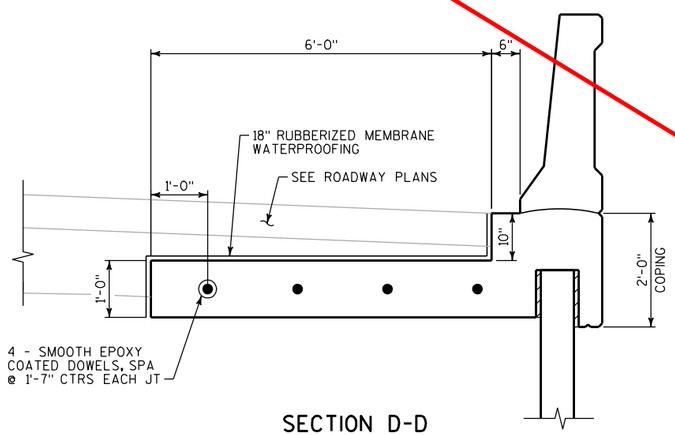
(PLAN VIEW)
(DO NOT RUN BAR STEEL THRU JOINT)



3/4" CONTINUOUS V-GROOVE DETAIL



3/4" CONTINUOUS DRIP GROOVE DETAIL



SECTION D-D
(AT ANCHOR SLAB EXPANSION JOINT)

(ANCHOR SLAB REINFORCING NOT SHOWN)

LEGEND

- CONSTRUCTION JOINT - STRIKE OFF AS SHOWN
- LEVEL
- LIQUID OR OTHER BOND BREAKER BETWEEN CAST-IN-PLACE CONCRETE AND PRECAST CONCRETE WALL PANEL
- ‡ SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF FILLER WITH NON-STAINING, NON-BITUMINOUS JOINT SEALER, COLOR TO MATCH CONCRETE STAIN. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE)
- 3/4" V-GROOVE, SEE DETAIL

NOTE

SEE GENERAL PLAN & ELEVATION SHEET FOR LOCATION OF EXPANSION JOINTS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-51-46

CONST. SPEC. 2010	DRAWN BY JLK	PLANS C'KD. KES

PARAPET, ANCHOR SLAB & COPING DETAILS

SHEET 5 OF 9

184

See new sheets #184 and #184A

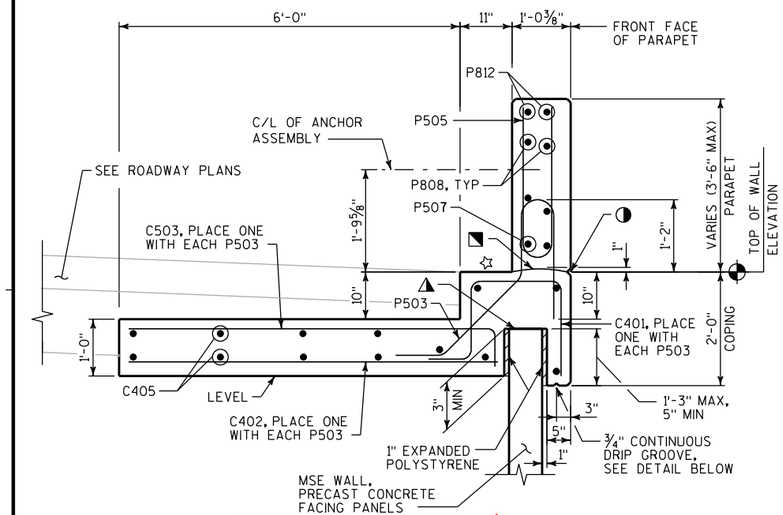
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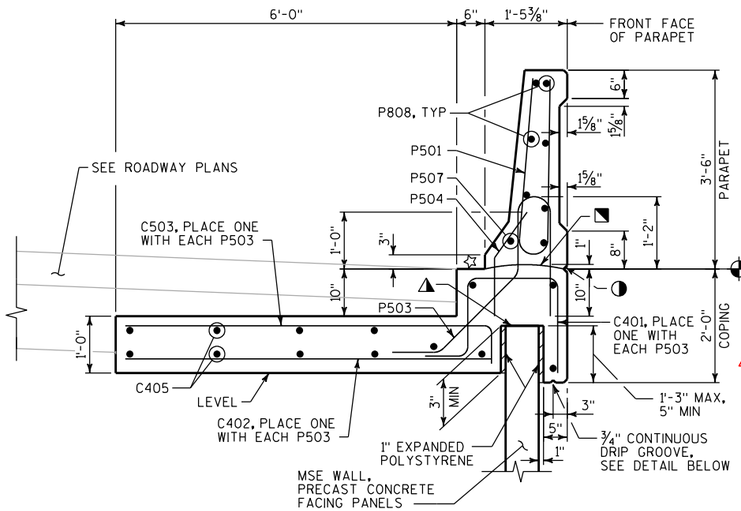
STATE PROJECT NUMBER

1033-02-74



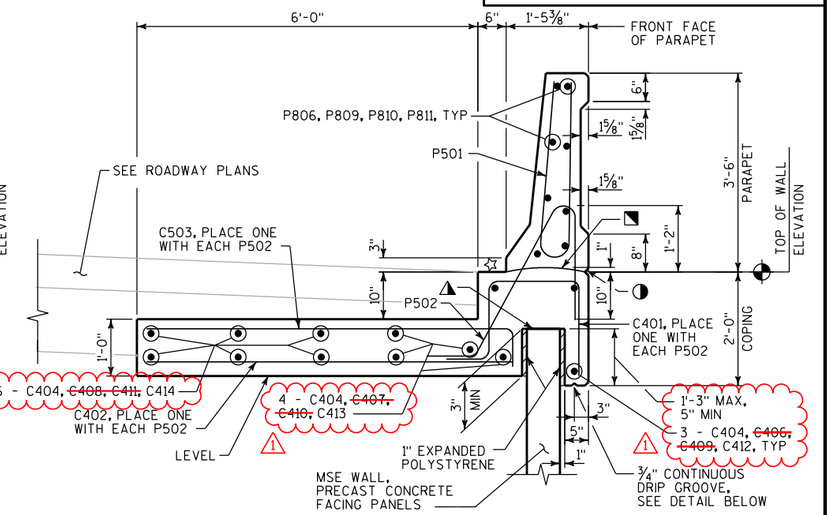
SECTION A-A

(STA 3+67.50 TO STA 3+70.00) 1



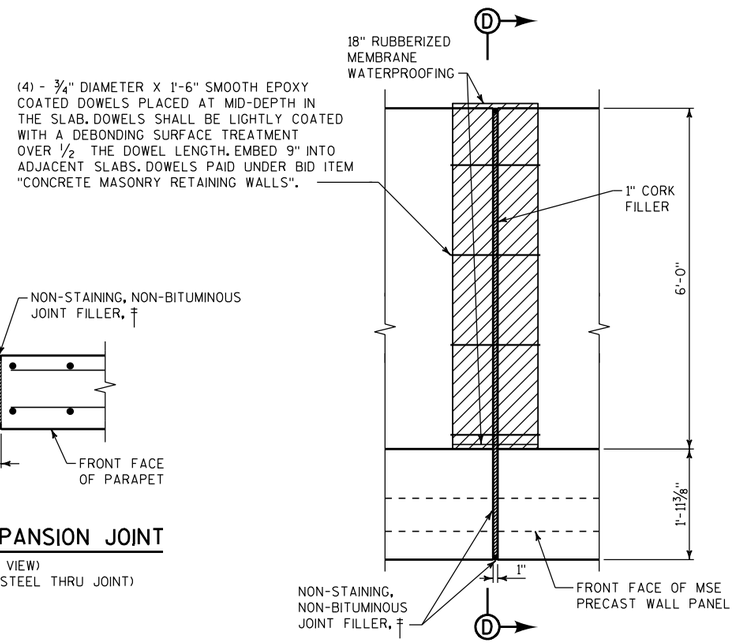
SECTION B-B

(STA 3+63.50 TO STA 3+67.50) 1



SECTION C-C

(STA 2+90.00 TO STA 3+63.50) 1

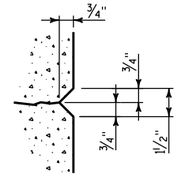


PARAPET EXPANSION JOINT

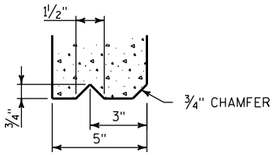
(PLAN VIEW)
(DO NOT RUN BAR STEEL THRU JOINT)

ANCHOR SLAB EXPANSION JOINT

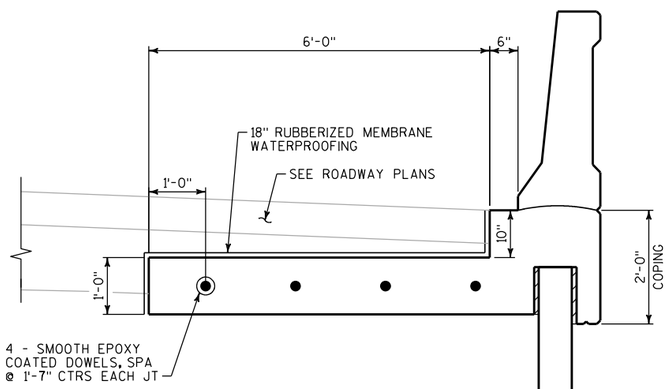
(PLAN VIEW)
(ANCHOR SLAB REINFORCING NOT SHOWN)



3/4" CONTINUOUS V-GROOVE DETAIL



3/4" CONTINUOUS DRIP GROOVE DETAIL



SECTION D-D
(AT ANCHOR SLAB EXPANSION JOINT)

(ANCHOR SLAB REINFORCING NOT SHOWN)

LEGEND

- CONSTRUCTION JOINT - STRIKE OFF AS SHOWN
- LEVEL
- LIQUID OR OTHER BOND BREAKER BETWEEN CAST-IN-PLACE CONCRETE AND PRECAST CONCRETE WALL PANEL
- ‡ SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF FILLER WITH NON-STAINING, NON-BITUMINOUS JOINT SEALER, COLOR TO MATCH CONCRETE STAIN. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE)
- 3/4" V-GROOVE, SEE DETAIL

NOTE

SEE GENERAL PLAN & ELEVATION SHEET FOR LOCATION OF EXPANSION JOINTS

NO.	DATE	REVISION	BY
1	10/4/11	WALL SECTION LIMIT CALLOUT	EKM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-51-46

CONST. SPEC. 2010	DRAWN BY JLK	PLANS CK'D. KES

PARAPET, ANCHOR SLAB & COPING DETAILS

SHEET 5 OF 9

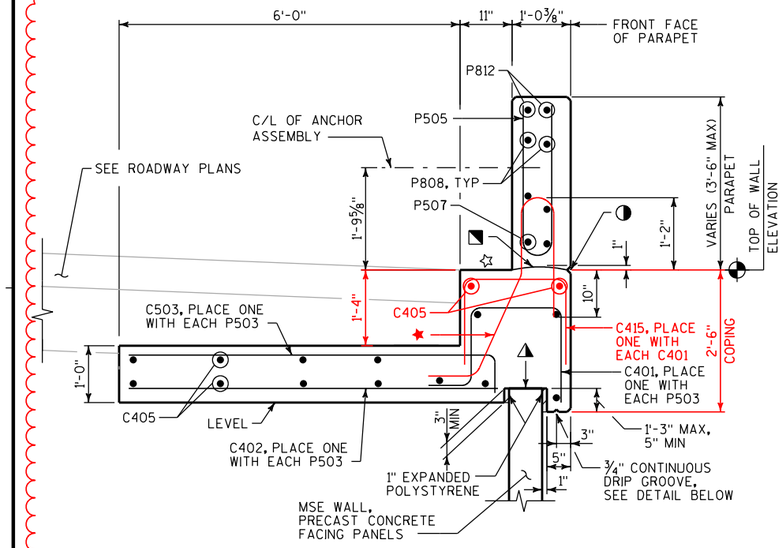
184

8

8

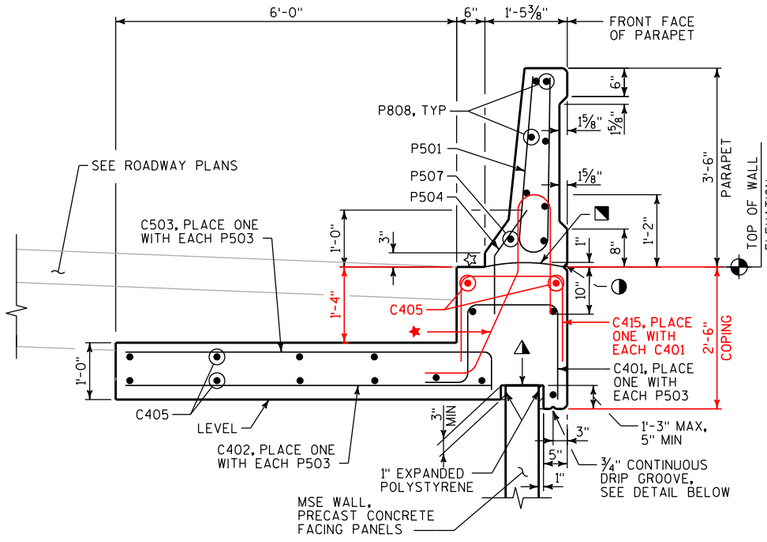
STATE PROJECT NUMBER

1033-02-74



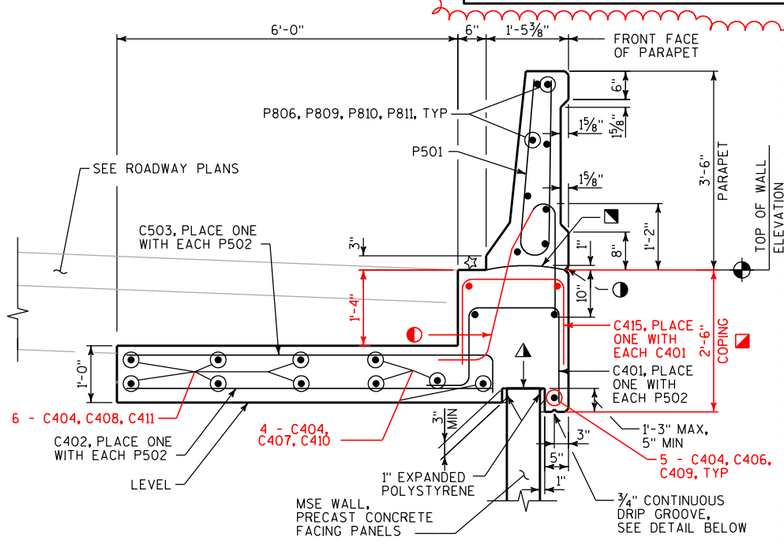
SECTION A-A

(STA 0+00.00 TO STA 0+02.50)



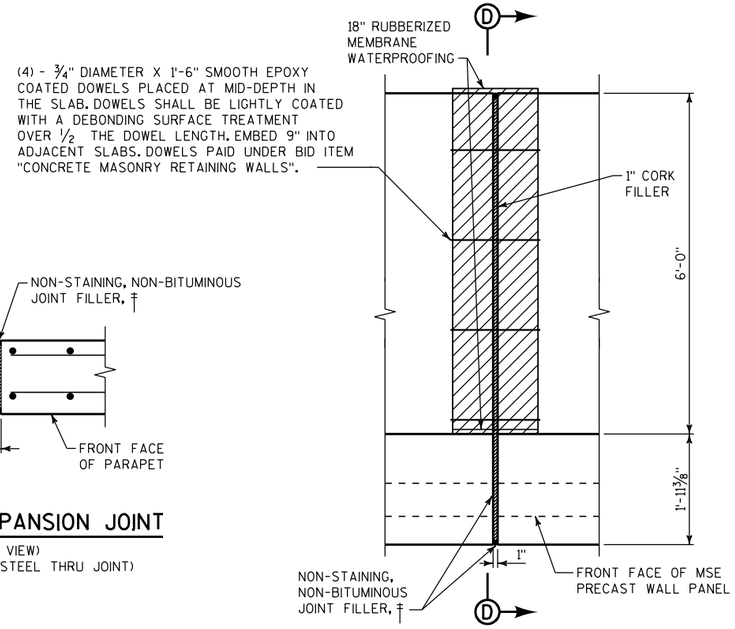
SECTION B-B

(STA 0+02.50 TO STA 0+06.50)



SECTION C-C

(STA 0+06.50 TO STA 2+90.00)

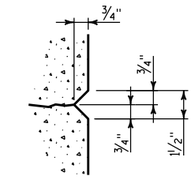


ANCHOR SLAB EXPANSION JOINT

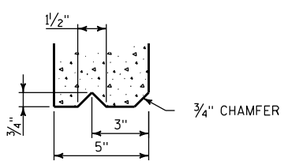
(PLAN VIEW)
(ANCHOR SLAB REINFORCING NOT SHOWN)

PARAPET EXPANSION JOINT

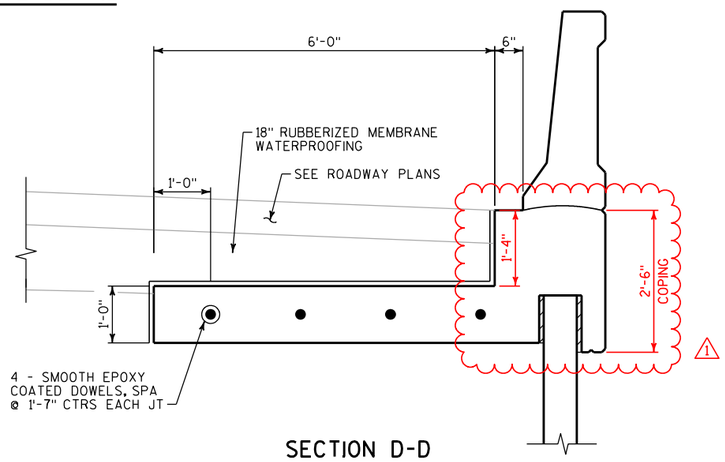
(PLAN VIEW)
(DO NOT RUN BAR STEEL THRU JOINT)



3/4" CONTINUOUS V-GROOVE DETAIL



3/4" CONTINUOUS DRIP GROOVE DETAIL



SECTION D-D

(AT ANCHOR SLAB EXPANSION JOINT)

(ANCHOR SLAB REINFORCING NOT SHOWN)

LEGEND

CONSTRUCTION JOINT - STRIKE OFF AS SHOWN

☆ LEVEL

▲ LIQUID OR OTHER BOND BREAKER BETWEEN CAST-IN-PLACE CONCRETE AND PRECAST CONCRETE WALL PANEL

† SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF FILLER WITH NON-STAINING, NON-BITUMINOUS JOINT SEALER, COLOR TO MATCH CONCRETE STAIN. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE)

◑ 3/4" V-GROOVE, SEE DETAIL

★ P503, FIELD BEND AS REQ'D

◐ P502, FIELD BEND AS REQ'D

◪ DIMENSION VARIES LINEARLY 2'-6" TO 2'-0", FROM STA 2+27.00 TO STA 2+90.00

NOTE

SEE GENERAL PLAN & ELEVATION SHEET FOR LOCATION OF EXPANSION JOINTS

NO.	DATE	REVISION	BY
1	10/4/11	WALL SECTIONS - NEW SHEET	EKM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-51-46

CONST. SPEC. 2010	DRAWN BY JLK	PLANS CK'D. KES

PARAPET, ANCHOR SLAB & COPING DETAILS

SHEET 5A OF 9

184A

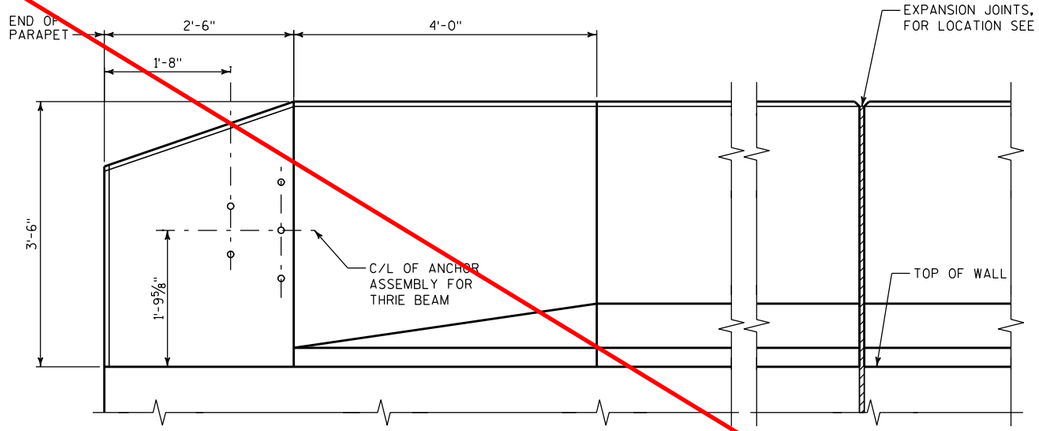
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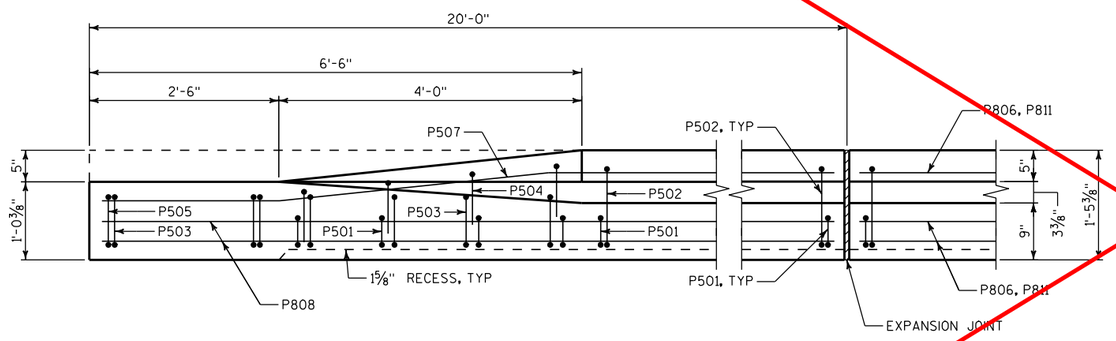
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STATE PROJECT NUMBER

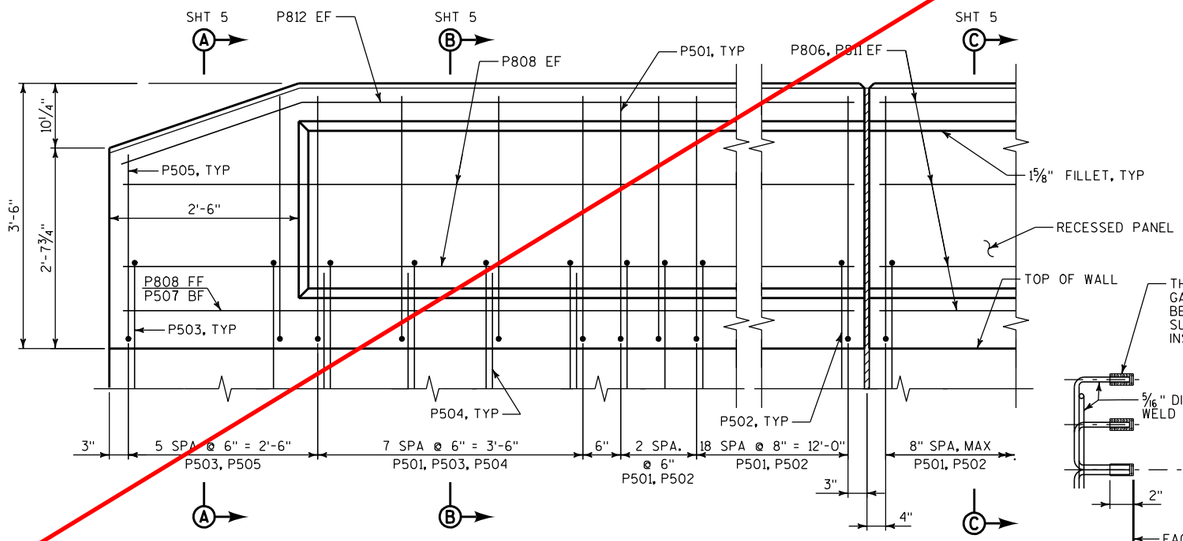
1033-02-74



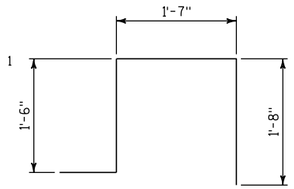
INSIDE ELEVATION



PLAN

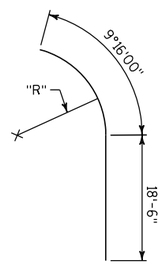


OUTSIDE ELEVATION

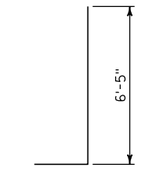


C401

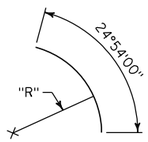
BAR MARK	DIM "R"
C406	68'-9"
C407	70'-0"
C408	73'-6"
P809	68'-9"



C406, C407, C408, P809



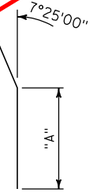
C503



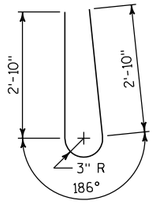
C409, C410, C411, P810

BAR MARK	DIM "R"
C409	68'-9"
C410	70'-0"
C411	73'-6"
P810	68'-9"

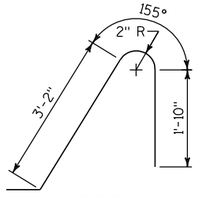
BAR MARK	DIM "A"
C412	24'-4"
C413	24'-5"
C414	24'-7"
P811	24'-4"



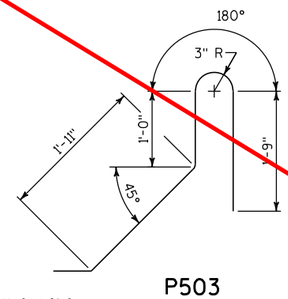
C412, C413, C414, P811



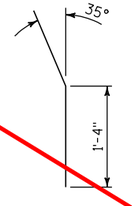
P501



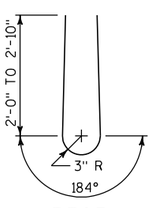
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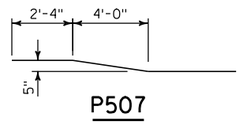
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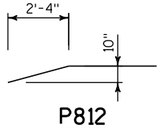
P504



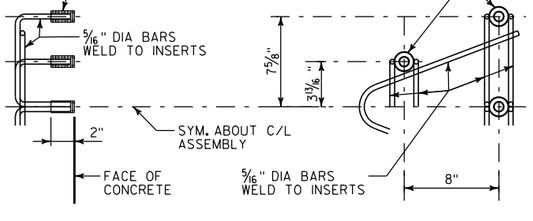
P505



P507



P812



DETAIL OF ANCHOR ASSEMBLY

ANCHOR SLAB & COPING BILL OF BARS

BAR MARK	COAT	NO.	LENGTH	BENT	LOCATION
C401	E	563	5'-2"	X	COPING TRANSVERSE TIE
C402	E	563	6'-5"		ANCHOR SLAB BOTTOM TRANSVERSE
C503	E	563	6'-11"	X	ANCHOR SLAB TOP TRANSVERSE
C404	E	91	29'-8"		ANCHOR SLAB LONGITUDINAL - 30FT SEGMENT
C405	E	26	19'-8"		ANCHOR SLAB LONGITUDINAL - 20FT SEGMENT
C406	E	3	29'-5"	X	COPING LONGITUDINAL - PARTIAL CURVE
C407	E	4	29'-8"	X	ANCHOR SLAB LONGITUDINAL - PARTIAL CURVE
C408	E	6	30'-3"	X	ANCHOR SLAB LONGITUDINAL - PARTIAL CURVE
C409	E	6	29'-6"	X	COPING LONGITUDINAL - CURVE
C410	E	8	30'-1"	X	ANCHOR SLAB LONGITUDINAL - CURVE
C411	E	12	31'-7"	X	ANCHOR SLAB LONGITUDINAL - CURVE
C412	E	3	29'-7"	X	COPING LONGITUDINAL - STA 3+25
C413	E	4	29'-9"	X	ANCHOR SLAB LONGITUDINAL - STA 3+25
C414	E	6	30'-2"	X	ANCHOR SLAB LONGITUDINAL - STA 3+25

PARAPET BILL OF BARS

BAR MARK	COAT	NO.	LENGTH	BENT	BAR SERIES	LOCATION
P501	E	551	6'-6"	X		PARAPET VERTICAL TIE
P502	E	535	6'-3"	X		PARAPET VERTICAL TIE
P503	E	28	6'-2"	X		PARAPET VERTICAL TIE - 20 FT SEGMENT
P504	E	16	2'-4"	X		PARAPET VERTICAL TIE - 20 FT SEGMENT
P505	E	12	5'-8"	X	⚠	PARAPET VERTICAL @ END OF WALLS
P806	E	56	29'-8"			PARAPET LONGITUDINAL - 30 FT SEGMENT
P507	E	2	19'-8"	X		PARAPET LONGITUDINAL - 20 FT SEGMENT
P808	E	10	19'-8"			PARAPET LONGITUDINAL - 20 FT SEGMENT
P809	E	8	29'-5"	X		PARAPET LONGITUDINAL - PARTIAL CURVE
P810	E	16	29'-6"	X		PARAPET LONGITUDINAL - CURVE
P811	E	8	29'-7"	X		PARAPET LONGITUDINAL - STA 3+25
P812	E	4	19'-8"	X		PARAPET LONGITUDINAL @ TOP AND ENDS

BAR SERIES TABLE

MARK	NO. REQD.	LENGTH
P505	2 SERIES OF 6	4'-10" TO 6'-6"

See new sheet #185

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-51-46

CONST. SPEC. 2010	DRAWN BY JLK	PLANS CHKD. KES

SLOPED FACE PARAPET "HF" MODIFIED

SHEET 6 OF 9

185

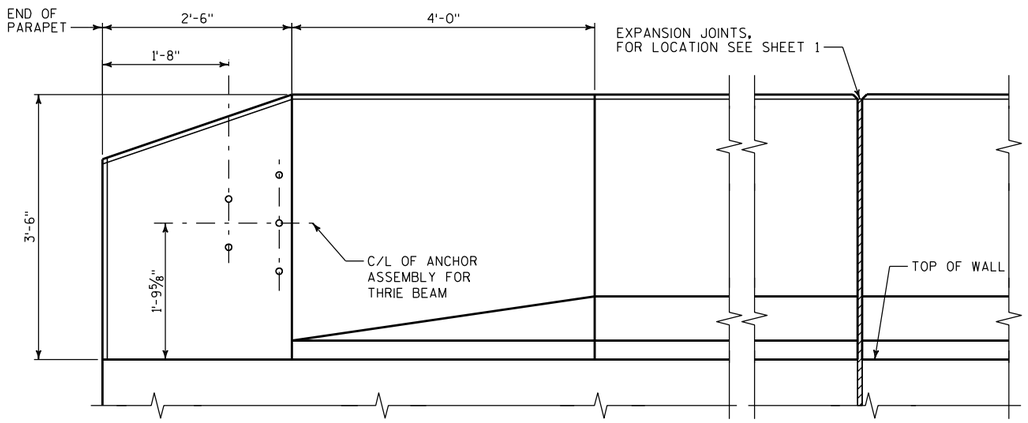
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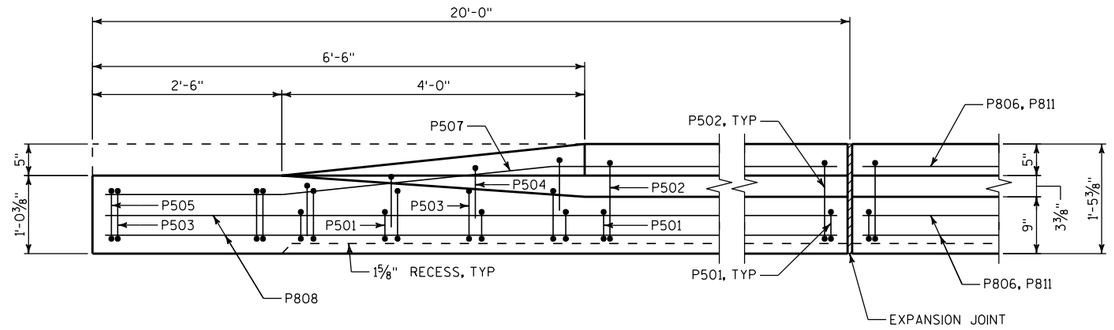
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STATE PROJECT NUMBER

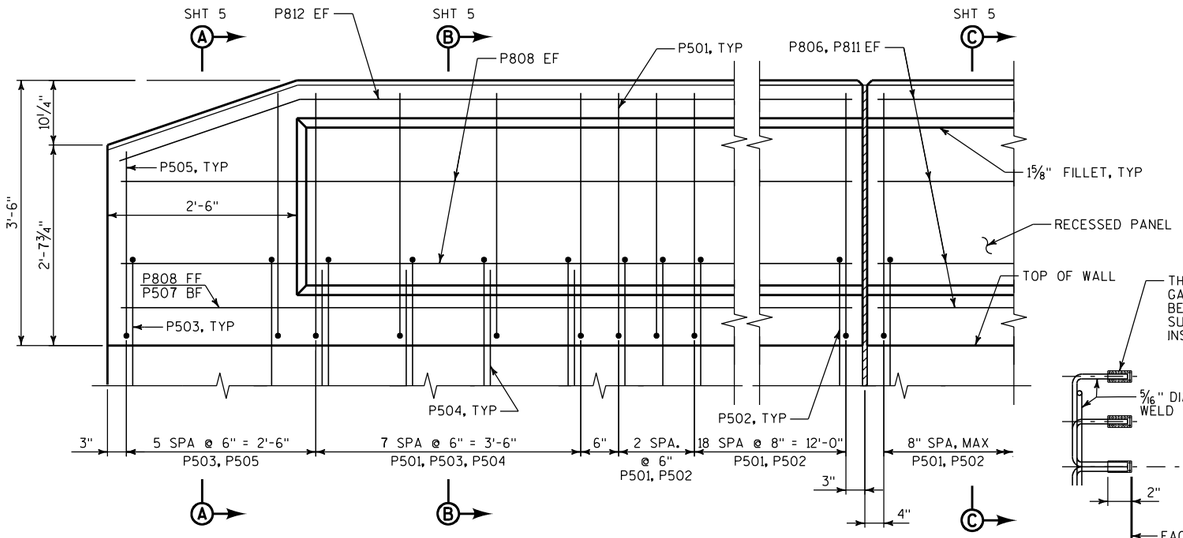
1033-02-74



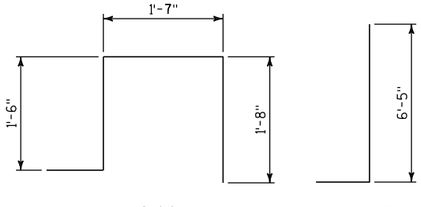
INSIDE ELEVATION



PLAN

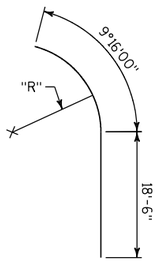


OUTSIDE ELEVATION

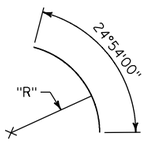


C401 C503

BAR MARK	DIM "R"
C406	68'-9"
C407	70'-0"
C408	73'-6"
P809	68'-9"



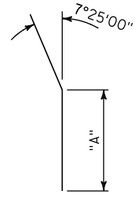
C406, C407, C408, P809



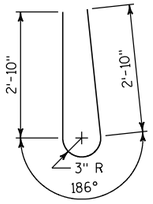
C409, C410, C411, P810

BAR MARK	DIM "R"
C409	68'-9"
C410	70'-0"
C411	73'-6"
P810	68'-9"

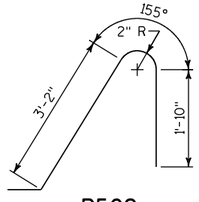
BAR MARK	DIM "A"
C412	24'-4"
C413	24'-5"
C414	24'-7"
P811	24'-4"



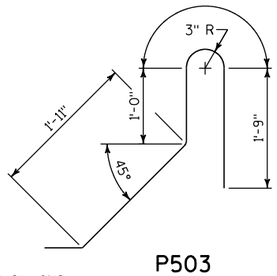
C412, C413, C414, P811



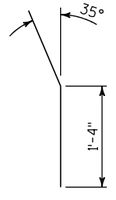
P501



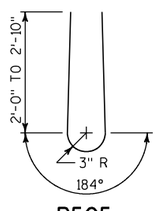
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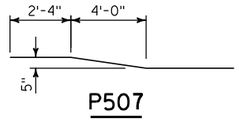
P503



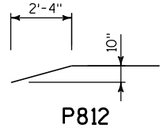
P504



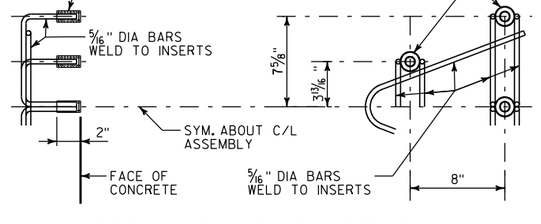
P505



P507



P812



DETAIL OF ANCHOR ASSEMBLY

ANCHOR SLAB & COPING BILL OF BARS

BAR MARK	COAT	NO.	LENGTH	BENT	LOCATION
C401	E	563	5'-2"	X	COPING TRANSVERSE TIE
C402	E	563	6'-5"		ANCHOR SLAB BOTTOM TRANSVERSE
C503	E	563	6'-11"	X	ANCHOR SLAB TOP TRANSVERSE
C404	E	103	29'-8"		ANCHOR SLAB LONGITUDINAL - 30FT SEGMENT
C405	E	28	19'-8"		ANCHOR SLAB LONGITUDINAL - 20FT SEGMENT
C406	E	5	29'-5"	X	COPING LONGITUDINAL - PARTIAL CURVE
C407	E	4	29'-8"	X	ANCHOR SLAB LONGITUDINAL - PARTIAL CURVE
C408	E	6	30'-3"	X	ANCHOR SLAB LONGITUDINAL - PARTIAL CURVE
C409	E	10	29'-6"	X	COPING LONGITUDINAL - CURVE
C410	E	8	30'-1"	X	ANCHOR SLAB LONGITUDINAL - CURVE
C411	E	12	31'-7"	X	ANCHOR SLAB LONGITUDINAL - CURVE
C412	E	3	29'-7"	X	COPING LONGITUDINAL - STA 3+25
C413	E	4	29'-9"	X	ANCHOR SLAB LONGITUDINAL - STA 3+25
C414	E	6	30'-2"	X	ANCHOR SLAB LONGITUDINAL - STA 3+25
C415	E	439	4'-9"	X	COPING TRANSVERSE TIE (STA 0+00 TO STA 2+90)

PARAPET BILL OF BARS

BAR MARK	COAT	NO.	LENGTH	BENT	BAR SERIES	LOCATION
P501	E	551	6'-6"	X		PARAPET VERTICAL TIE
P502	E	535	6'-3"	X		PARAPET VERTICAL TIE
P503	E	28	6'-2"	X		PARAPET VERTICAL TIE - 20 FT SEGMENT
P504	E	16	2'-4"	X		PARAPET VERTICAL TIE - 20 FT SEGMENT
P505	E	12	5'-8"	X	◭	PARAPET VERTICAL @ END OF WALLS
P806	E	56	29'-8"			PARAPET LONGITUDINAL - 30 FT SEGMENT
P507	E	2	19'-8"	X		PARAPET LONGITUDINAL - 20 FT SEGMENT
P808	E	10	19'-8"			PARAPET LONGITUDINAL - 20 FT SEGMENT
P809	E	8	29'-5"	X		PARAPET LONGITUDINAL - PARTIAL CURVE
P810	E	16	29'-6"	X		PARAPET LONGITUDINAL - CURVE
P811	E	8	29'-7"	X		PARAPET LONGITUDINAL - STA 3+25
P812	E	4	19'-8"	X		PARAPET LONGITUDINAL @ TOP AND ENDS

BAR SERIES TABLE

MARK	NO. REQD.	LENGTH
P505	2 SERIES OF 6	4'-10" TO 6'-6"

NO.	DATE	REVISION	BY
1	10/4/11	REVISED BAR SCHEDULE	EKM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-51-46

CONST. SPEC. 2010	DRAWN BY JLK	PLANS CK'D. KES

SLOPED FACE PARAPET "HF" MODIFIED

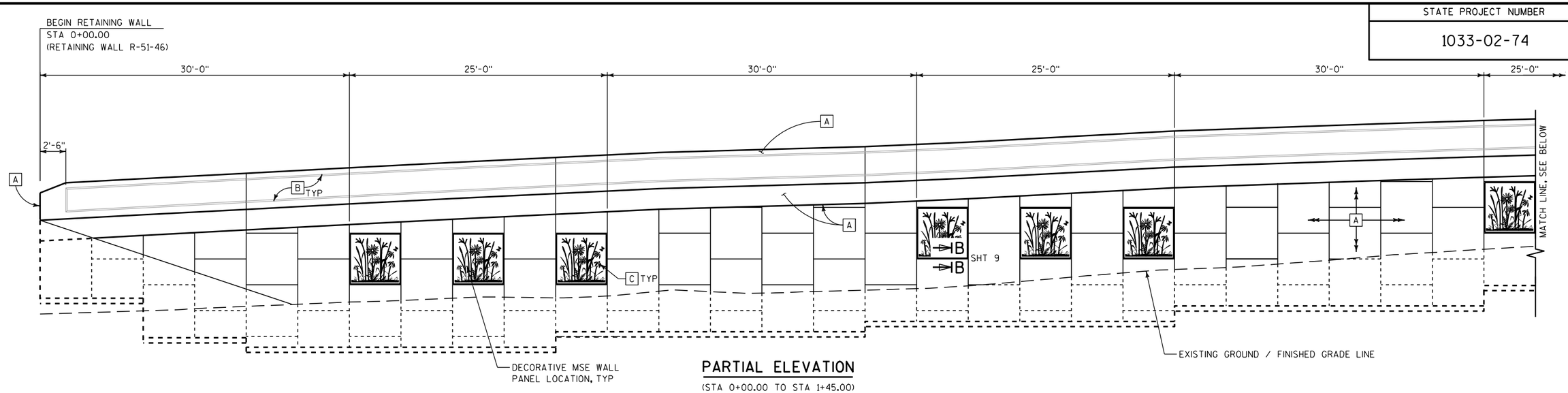
SHEET 6 OF 9

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8

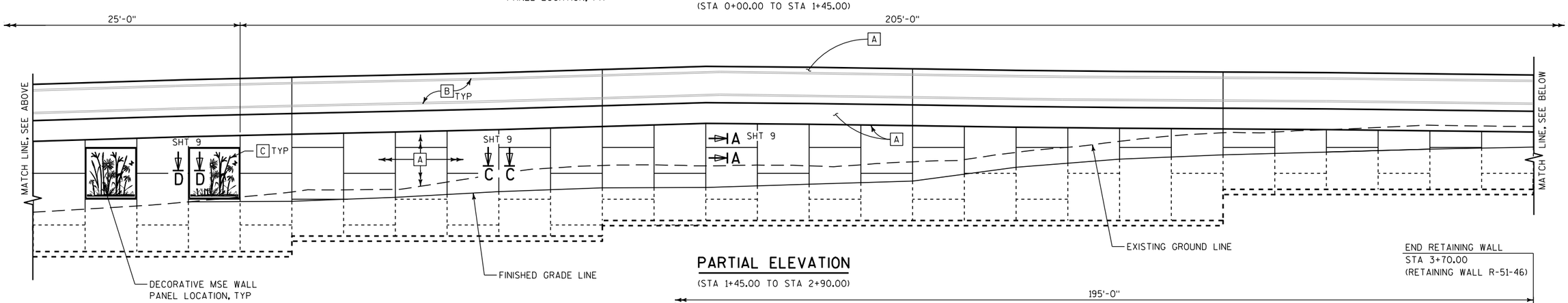
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STATE PROJECT NUMBER
1033-02-74



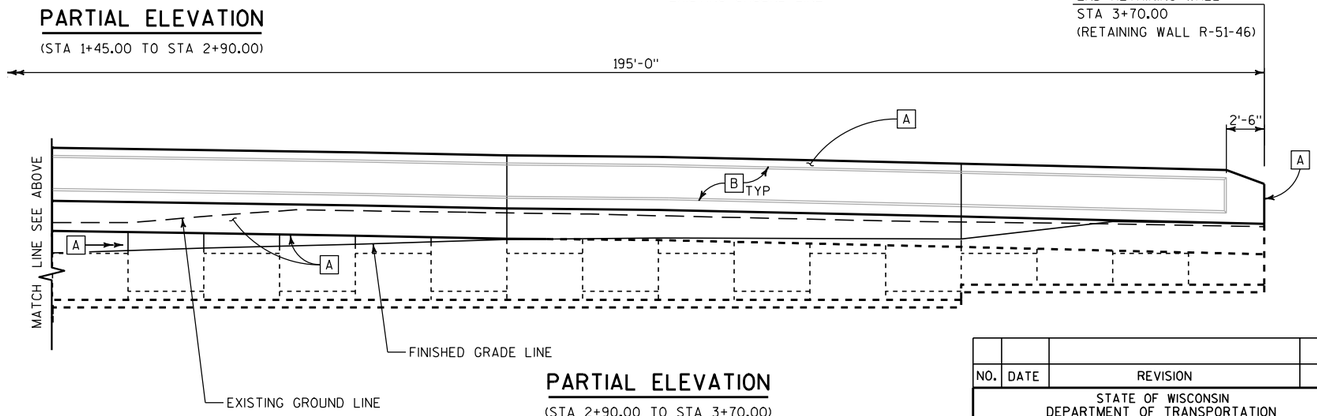
PARTIAL ELEVATION

(STA 0+00.00 TO STA 1+45.00)



PARTIAL ELEVATION

(STA 1+45.00 TO STA 2+90.00)



PARTIAL ELEVATION

(STA 2+90.00 TO STA 3+70.00)

CONCRETE STAINING SCHEDULE

MARK	COLOR	LOCATION	NOTES
A	BASE COLOR	SLOPED FACE PARAPET	EXTERIOR SIDE, EXCEPT AS NOTED FOR ACCENT COLORS
		WALLS	EXPOSED FACES TO 1'-0" BELOW FINAL GRADE
B	ACCENT COLOR #1	SLOPED FACE PARAPET	RECESSED PANELS ON EXTERIOR SIDES, INCLUDING FILLETS
C	ACCENT COLOR #2	DECORATIVE PANEL	RECESSED AREAS

SEE SPECIAL PROVISIONS FOR STAIN COLORS.

NOTES

PARTIAL ELEVATIONS ARE LOOKING AT FRONT FACE OF WALL.

DISTANCES AND STATIONS ARE GIVEN ALONG THE FRONT FACE OF WALL.

DO NOT STAIN TOP OF PARAPETS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-51-46

CONST. SPEC. 2010	DRAWN BY JLK	PLANS CK'D. KES

AESTHETIC WALL ELEVATION

SHEET 7 OF 9

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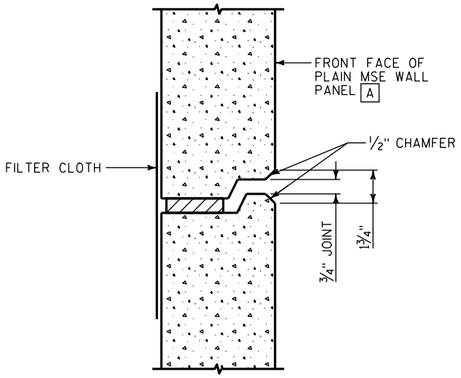
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FILE NAME : S:\homeWork\Glen McGinn\R-51-46\cds\R5146Sht07.dgn PLOT DATE : 03-NOV-2010 10:49 PLOT BY : mscglm PLOT NAME : R5146Sht07 PLOT SCALE : 10:1

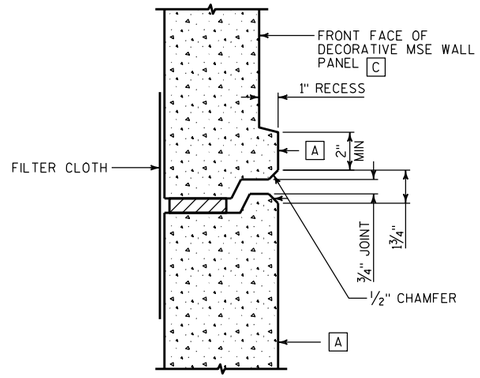
STATE PROJECT NUMBER

1033-02-74



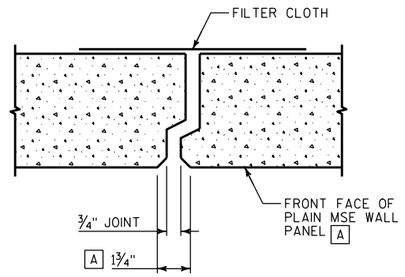
SECTION A-A

HORIZONTAL JOINT @ MSE WALL PANELS



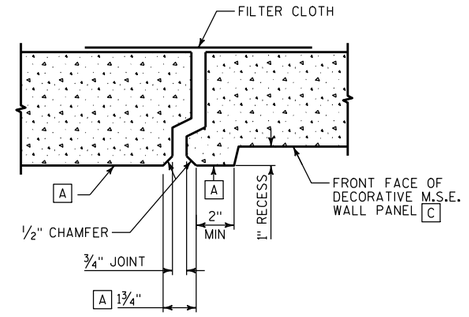
SECTION B-B

HORIZONTAL JOINT @ MSE WALL PANELS



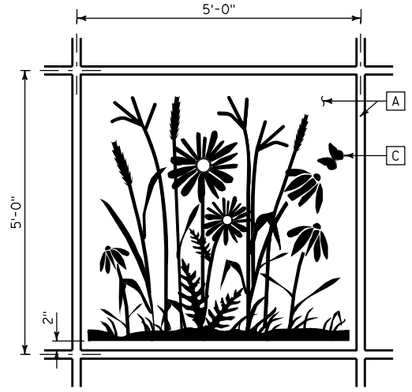
SECTION C-C

VERTICAL JOINT @ MSE WALL PANELS



SECTION D-D

VERTICAL JOINT @ MSE WALL PANELS



DECORATIVE MSE PANEL

"PRAIRIE PATTERN"

NOTE

SEE AESTHETIC WALL ELEVATION SHEET FOR CONCRETE STAINING SCHEDULE AND SECTION LOCATIONS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-51-46

CONST. SPEC. 2010	DRAWN BY JLK	PLANS CK'D. KES

AESTHETIC WALL TREATMENT DETAILS

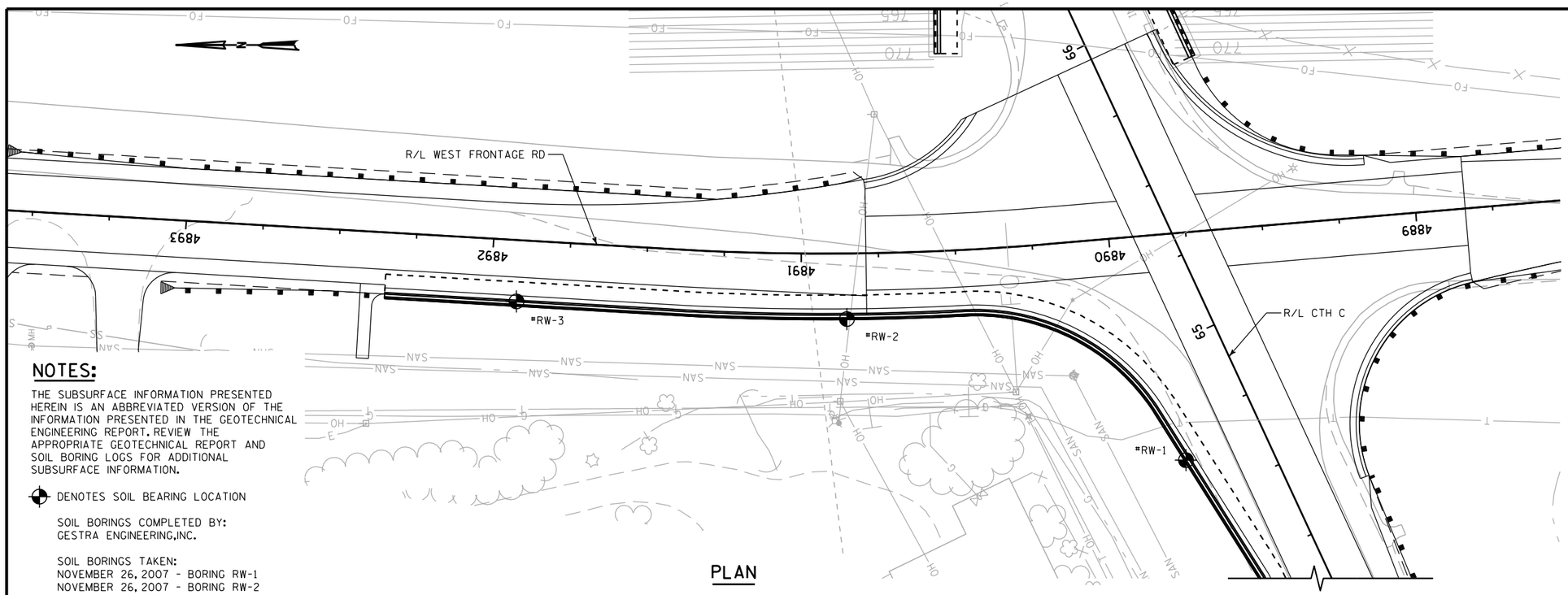
SHEET 8 OF 9

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8

FILE NAME : S:\homeWork\Glen McGinn\R-51-46\cds\R5146Sht08.dgn PLOT DATE : 03-NOV-2010 10:49 PLOT BY : mscglm PLOT NAME : R5146Sht08 PLOT SCALE : 2.666667:1



PLAN

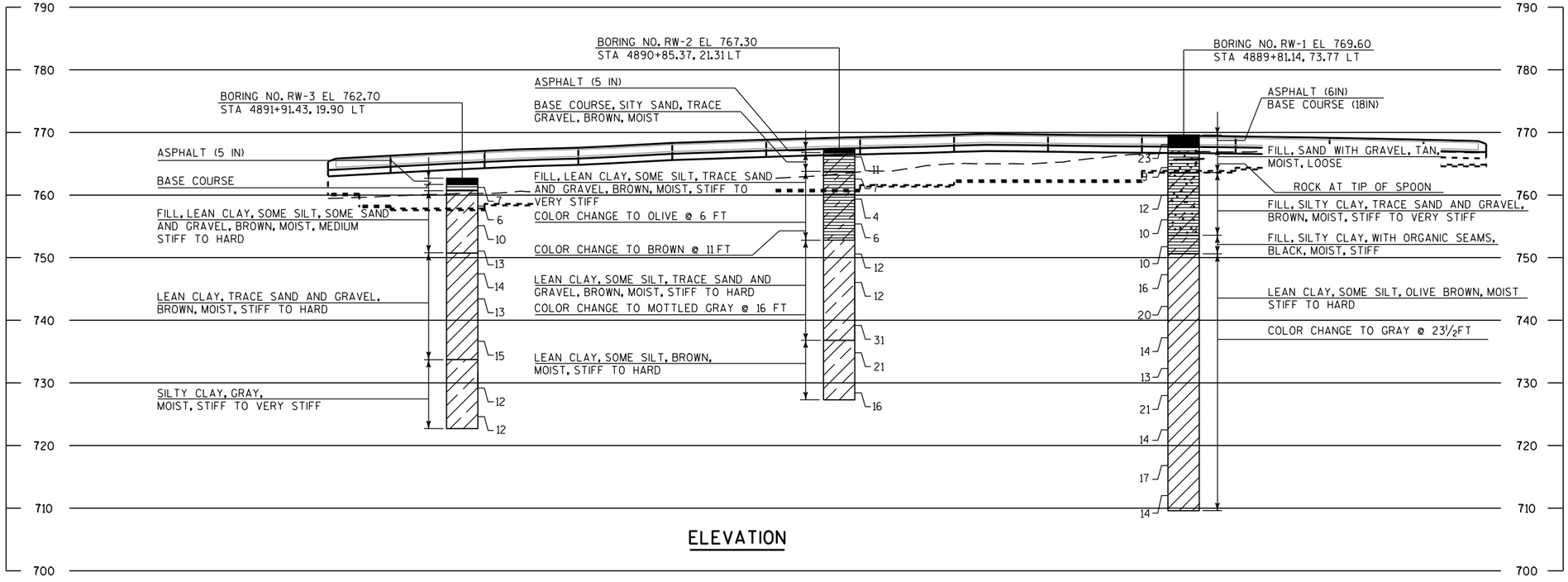
NOTES:

THE SUBSURFACE INFORMATION PRESENTED HEREIN IS AN ABBREVIATED VERSION OF THE INFORMATION PRESENTED IN THE GEOTECHNICAL ENGINEERING REPORT. REVIEW THE APPROPRIATE GEOTECHNICAL REPORT AND SOIL BORING LOGS FOR ADDITIONAL SUBSURFACE INFORMATION.

⊕ DENOTES SOIL BEARING LOCATION

SOIL BORINGS COMPLETED BY:
GESTRA ENGINEERING,INC.

SOIL BORINGS TAKEN:
NOVEMBER 26, 2007 - BORING RW-1
NOVEMBER 26, 2007 - BORING RW-2
NOVEMBER 26, 2007 - BORING RW-3



ELEVATION

STATE PROJECT NUMBER

1033-02-74

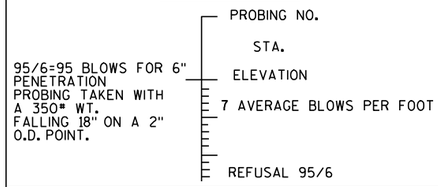
ABBREVIATIONS

F — FINE M — MEDIUM C — COARSE
WS — WEATHERED SO — SOUND

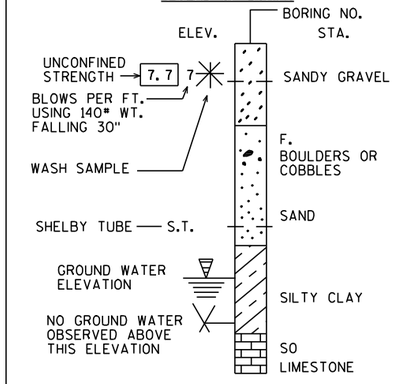
MATERIAL SYMBOLS

TOPSOIL / FILL, SILT, SANDSTONE
SAND, PEAT, LIMESTONE
GRAVEL, CLAY, IGNEOUS ROCK

LEGEND OF PROBING



LEGEND OF BORING



UNLESS OTHERWISE SPECIFIED, THE BLOWS PER FOOT AT THE LOCATIONS INDICATED ARE BASED ON DRIVING A 2" O.D. X 1.4" I.D. SPLIT SPOON SAMPLER WITH A 140# HAMMER HAVING A FREE FALL OF 30". THE BLOW COUNT IS TAKEN IN UNDISTURBED SOIL IMMEDIATELY BELOW A CASED OR OPEN HOLE ELIMINATING SIDE FRICTION ON THE DRIVE PIPE.

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

TO OBTAIN RELATIVE DATA CONCERNING THE CHARACTER OF MATERIAL IN AND UPON WHICH THE FOUNDATION MIGHT BE BUILT, BORINGS AND/OR SOUNDINGS WERE MADE AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING. THE DATA PRESENTED HEREIN REPRESENTS THE FINDINGS OF THE SUBSURFACE EXPLORATIONS MADE. HOWEVER, BECAUSE THE DEPTHS INVESTIGATED ARE LIMITED AND THE AREA OF THE BORINGS AND/OR SOUNDINGS IS VERY SMALL IN RELATION TO THE ENTIRE AREA, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT CONDITIONS BELOW THE DEPTHS INVESTIGATED OR THAT THE CLASSIFICATION OF MATERIAL ENCOUNTERED IN THESE INVESTIGATIONS IS NECESSARILY TYPICAL OF THE ENTIRE SITE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-51-46

CONST. SPEC. 2010	DRAWN BY TEK	PLANS CK'D. KES

SUBSURFACE EXPLORATION

SHEET 9 OF 9

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WEST FRONTAGE ROAD SOUTH (DIVISION 1)

STATION	Distance	AREA (SF) Cut	AREA (SF) Salvaged/Unusable Pavement Material	AREA (SF) Fill	AREA (SF) EBS	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Salvaged/Unusable Pavement Material	Incremental Vol (CY) (Unadjusted) Fill	Incremental Vol (CY) (Unadjusted) EBS	Cumulative Vol (CY) Cut 1.00	Cumulative Vol (CY) Expanded Fill 1.2	Cumulative Vol (CY) Expanded EBS Backfill 1.30	Cumulative Vol (CY) Reduced EBS In Fill 0.80	Mass Ordinate
2847+09 AH		115.74	0.00	0	0.00	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00
2847+50	41.00	134.13	11.25	3.42	0.00	189.72	8.54	2.60	0.00	189.72	3.12	0.00	0.00	178.06
2848+00	50.00	115.86	11.25	4.01	0.00	231.47	20.83	6.88	0.00	421.19	11.37	0.00	0.00	380.44
2848+50	50.00	64.64	11.25	51.57	0.00	167.13	20.83	51.46	0.00	588.32	73.13	0.00	0.00	464.98
2849+00	50.00	117.19	11.25	24.06	0.00	168.36	20.83	70.03	0.00	756.68	157.16	0.00	0.00	528.48
2849+50	50.00	123.22	11.25	5.42	0.00	222.60	20.83	27.30	0.00	979.28	189.92	0.00	0.00	697.49
2850+00	50.00	112.18	11.25	10.86	0.00	217.96	20.83	15.07	0.00	1197.24	208.00	0.00	0.00	876.53
2850+50	50.00	101.87	11.25	11.24	0.00	198.19	20.83	20.46	0.00	1395.44	232.56	0.00	0.00	1029.34
2851+00	50.00	100.37	11.25	10.56	0.00	187.26	20.83	20.19	0.00	1582.70	256.78	0.00	0.00	1171.54
2851+50	50.00	120.3	11.25	15.34	0.00	204.32	20.83	23.98	0.00	1787.02	285.56	0.00	0.00	1326.25
2852+00	50.00	106.23	11.25	20.8	0.00	209.75	20.83	33.46	0.00	1996.77	325.72	0.00	0.00	1475.01
2852+50	50.00	97.44	11.25	12.36	0.00	188.58	20.83	30.70	0.00	2185.36	362.56	0.00	0.00	1605.92
2853+00	50.00	92.67	11.25	6.24	0.00	176.03	20.83	17.22	0.00	2361.38	383.23	0.00	0.00	1740.45
2853+50	50.00	124.28	11.25	5.96	0.00	200.88	20.83	11.30	0.00	2562.26	396.78	0.00	0.00	1906.94
2854+00	50.00	113.04	11.25	7.85	0.00	219.74	20.83	12.79	0.00	2782.00	412.13	0.00	0.00	2090.50
2854+50	50.00	113.67	11.25	4.45	0.00	209.92	20.83	11.39	0.00	2991.92	425.79	0.00	0.00	2265.92
2855+00	50.00	112.75	11.25	1.53	0.00	209.65	20.83	5.54	0.00	3201.57	432.44	0.00	0.00	2448.09
2855+50	50.00	115.64	11.25	0.49	0.00	211.47	20.83	1.87	0.00	3413.04	434.68	0.00	0.00	2636.48
2856+00	50.00	101.07	11.25	2.99	0.00	200.66	20.83	3.22	0.00	3613.70	438.55	0.00	0.00	2812.44
2856+50	50.00	104.68	11.25	8.62	0.00	190.51	20.83	10.75	0.00	3804.21	451.45	0.00	0.00	2969.22
2857+00	50.00	102.33	11.25	0	0.00	191.68	20.83	7.98	0.00	3995.88	461.03	0.00	0.00	3130.48
					Column totals	3995.88	404.38	384.19	0.00					

GRANDVIEW PARKWAY

STATION	Distance	AREA (SF) Cut	AREA (SF) Salvaged/Unusable Pavement Material	AREA (SF) Fill	AREA (SF) EBS	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Salvaged/Unusable Pavement Material	Incremental Vol (CY) (Unadjusted) Fill	Incremental Vol (CY) (Unadjusted) EBS	Cumulative Vol (CY) Cut 1.00	Cumulative Vol (CY) Expanded Fill 1.2	Cumulative Vol (CY) Expanded EBS Backfill 1.30	Cumulative Vol (CY) Reduced EBS In Fill 0.80	Mass Ordinate
1844+17 AH		93.25	0.00	2.62	0.00	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00
1844+50	33.00	168.3	0.00	0	0.00	159.84	0.00	1.60	0.00	159.84	1.92	0.00	0.00	157.91
1845+00	50.00	128.19	0.00	0	0.00	274.53	0.00	0.00	0.00	434.36	1.92	0.00	0.00	432.44
1845+50	50.00	107.5	0.00	0	0.00	218.23	0.00	0.00	0.00	652.60	1.92	0.00	0.00	650.67
1846+00	50.00	131.01	0.00	0	0.00	220.84	0.00	0.00	0.00	873.44	1.92	0.00	0.00	871.52
1846+50	50.00	243.1	28.50	8.3	0.00	346.40	26.39	7.69	0.00	1219.84	11.14	0.00	0.00	1182.30
1847+00	50.00	224.31	39.75	6.68	0.00	432.79	63.19	13.87	0.00	1652.62	27.79	0.00	0.00	1535.25
1847+08 BK	8.00	229.39	39.75	7.13	0.00	67.21	11.78	2.05	0.00	1719.84	30.24	0.00	0.00	1588.23
					Column totals	1719.84	101.36	25.20	0.00					

WEST FRONTAGE ROAD SOUTH (DIVISION 2)

STATION		Distance	AREA (SF) Cut	Salvaged/Unusable Pavement Material	Fill	EBS	Incremental Vol (CY) (Unadjusted) Cut	Salvaged/Unusable Pavement Material	Fill	EBS	Cumulative Vol (CY) Cut 1.00	Expanded Fill 1.2	Expanded EBS Backfill 1.30	Reduced EBS In Fill 0.80	Mass Ordinate
2838+77	AH		156.14	0.00	0	0.00	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00
2839+00		23.00	147.95	8.25	3.42	0.00	129.52	3.51	1.46	0.00	129.52	1.75	0.00	0.00	124.26
2839+50		50.00	145.09	3.59	4.01	0.00	271.33	10.96	6.88	0.00	400.85	10.00	0.00	0.00	376.38
2840+00		50.00	166.16	10.88	51.57	0.00	288.19	13.39	51.46	0.00	689.05	71.76	0.00	0.00	589.43
2840+50		50.00	192.21	16.50	24.06	0.00	331.82	25.35	70.03	0.00	1020.87	155.79	0.00	0.00	811.87
2841+00		50.00	166.68	18.00	5.42	0.00	332.31	31.94	27.30	0.00	1353.18	188.55	0.00	0.00	1079.47
2841+50		50.00	226.73	15.00	10.86	0.00	364.27	30.56	15.07	0.00	1717.45	206.64	0.00	0.00	1395.10
2842+00		50.00	303.82	15.00	10.56	0.00	491.25	27.78	19.83	0.00	2208.70	230.44	0.00	0.00	1834.77
2842+50		50.00	274.37	15.00	15.34	0.00	535.36	27.78	23.98	0.00	2744.06	259.21	0.00	0.00	2313.58
2843+00		50.00	250.87	15.00	20.8	0.00	486.33	27.78	33.46	0.00	3230.39	299.37	0.00	0.00	2731.98
2843+50		50.00	245.12	15.00	12.36	0.00	459.25	27.78	30.70	0.00	3689.64	336.21	0.00	0.00	3126.60
2844+00		50.00	150.37	15.00	5.96	0.00	366.19	27.78	16.96	0.00	4055.83	356.57	0.00	0.00	3444.67
2844+50		50.00	246.69	15.00	7.85	0.00	367.65	27.78	12.79	0.00	4423.48	371.91	0.00	0.00	3769.19
2845+00		50.00	247.34	15.00	4.45	0.00	457.44	27.78	11.39	0.00	4880.92	385.58	0.00	0.00	4185.18
2845+50		50.00	294.79	15.00	1.53	0.00	501.97	27.78	5.54	0.00	5382.89	392.23	0.00	0.00	4652.73
2846+00		50.00	296.19	16.13	0.49	0.00	547.20	28.82	1.87	0.00	5930.09	394.47	0.00	0.00	5168.87
2846+50	BK	50.00	274.92	17.25	2.99	0.00	528.81	30.90	3.22	0.00	6458.90	398.34	0.00	0.00	5662.91

WEST FRONTAGE ROAD SOUTH (DIVISION 2)

STATION		Real Station	Distance	AREA (SF) Cut	AREA (SF) Salvaged/Unusable Pavement Material	AREA (SF) Fill	AREA (SF) EBS	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Salvaged/Unusable Pavement Material	Incremental Vol (CY) (Unadjusted) Fill	Incremental Vol (CY) (Unadjusted) EBS	Cumulative Vol (CY) Cut 1.00	Cumulative Vol (CY) Expanded Fill 1.2	Cumulative Vol (CY) Expanded EBS Backfill 1.30	Cumulative Vol (CY) Reduced EBS In Fill 0.80	Mass Ordinate
2847+09	AH	284709.00		180.02	0.00	8.62	0.00	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00
2847+50		284750.00	41.00	311.26	15.00	8.62	0.00	373.01	11.39	13.09	0.00	373.01	15.71	0.00	0.00	345.91
2848+00		284800.00	50.00	272.4	11.25	0	0.00	540.43	24.31	7.98	0.00	913.43	25.29	0.00	0.00	852.46
2848+50		284850.00	50.00	236.32	9.00	0.31	0.00	471.04	18.75	0.29	0.00	1384.47	25.63	0.00	0.00	1304.40
2849+00		284900.00	50.00	228.31	8.25	0	0.00	430.21	15.97	0.29	0.00	1814.68	25.97	0.00	0.00	1718.29
2849+50		284950.00	50.00	227.94	8.25	0	0.00	422.45	15.28	0.00	0.00	2237.14	25.97	0.00	0.00	2125.47
2850+00		285000.00	50.00	215.39	8.25	0.04	0.00	410.49	15.28	0.04	0.00	2647.63	26.02	0.00	0.00	2520.64
2850+50		285050.00	50.00	197.45	7.88	1.75	0.00	382.26	14.93	1.66	0.00	3029.89	28.01	0.00	0.00	2885.98
2851+00		285100.00	50.00	208.87	7.88	3.31	0.00	376.22	14.58	4.69	0.00	3406.11	33.63	0.00	0.00	3241.99
2851+50		285150.00	50.00	380.91	7.88	0	0.00	546.09	14.58	3.06	0.00	3952.20	37.31	0.00	0.00	3769.83
2852+00		285200.00	50.00	302.03	7.88	0	0.00	632.35	14.58	0.00	0.00	4584.56	37.31	0.00	0.00	4387.59
2852+50		285250.00	50.00	186.23	7.88	4.54	0.00	452.09	14.58	4.20	0.00	5036.65	42.35	0.00	0.00	4820.06
2853+00		285300.00	50.00	183.69	7.88	1.44	0.00	342.52	14.58	5.54	0.00	5379.17	49.00	0.00	0.00	5141.35
2853+50		285350.00	50.00	205.93	7.88	0.93	0.00	360.76	14.58	2.19	0.00	5739.93	51.63	0.00	0.00	5484.89
2854+00		285400.00	50.00	166.87	7.88	4.9	0.00	345.19	14.58	5.40	0.00	6085.11	58.11	0.00	0.00	5809.02
2854+50		285450.00	50.00	178.73	7.88	1.14	0.00	320.00	14.58	5.59	0.00	6405.11	64.82	0.00	0.00	6107.72
2855+00		285500.00	50.00	190.58	7.88	4.71	0.00	341.95	14.58	5.42	0.00	6747.06	71.32	0.00	0.00	6428.59
2855+50		285550.00	50.00	196.1	7.88	4.32	0.00	358.04	14.58	8.36	0.00	7105.10	81.35	0.00	0.00	6762.01
2856+00		285600.00	50.00	186.05	7.88	9.83	0.00	353.84	14.58	13.10	0.00	7458.94	97.07	0.00	0.00	7085.55
2856+50		285650.00	50.00	191.82	7.88	19.09	0.00	349.88	14.58	26.78	0.00	7808.82	129.21	0.00	0.00	7388.71
2857+00	BK	285700.00	50.00	185.77	7.13	40.68	0.00	349.62	13.89	55.34	0.00	8158.44	195.62	0.00	0.00	7658.03
							Column totals	8158.44	304.79	163.02	0.00					

WEST FRONTAGE ROAD NORTH (DIVISION 2)

STATION		Distance	AREA (SF) Cut	Salvaged/Unusable Pavement Material	Fill	EBS	Incremental Vol (CY) (Unadjusted) Cut	Salvaged/Unusable Pavement Material	Fill	EBS	Cumulative Vol (CY) Cut 1.00	Expanded Fill 1.2	Expanded EBS Backfill 1.30	Reduced EBS In Fill 0.80	Mass Ordinate
4868+00	AH		225.88	0.00	46.38	0.00	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00
4868+50		50.00	198.49	15.38	47.36	0.00	392.94	14.24	86.80	0.00	392.94	104.16	0.00	0.00	274.54
4869+00		50.00	189.83	15.75	62.9	0.00	359.56	28.82	102.09	0.00	752.49	226.67	0.00	0.00	482.77
4869+50		50.00	178.61	15.38	32.38	0.00	341.15	28.82	88.22	0.00	1093.64	332.53	0.00	0.00	689.23
4870+00		50.00	204.79	15.38	41.82	0.00	355.00	28.47	68.70	0.00	1448.64	414.98	0.00	0.00	933.31
4870+50		50.00	180.46	15.38	82.51	0.00	356.71	28.47	115.12	0.00	1805.35	553.12	0.00	0.00	1123.41
4871+00		50.00	260.97	15.38	95.77	0.00	408.73	28.47	165.07	0.00	2214.08	751.21	0.00	0.00	1305.58
4871+50		50.00	189.8	15.38	126.21	0.00	417.38	28.47	205.54	0.00	2631.46	997.86	0.00	0.00	1447.84
4872+00		50.00	179.54	15.38	186.33	0.00	341.98	28.47	289.39	0.00	2973.44	1345.12	0.00	0.00	1414.09
4872+50		50.00	191.95	15.75	52.42	0.00	343.97	28.82	221.06	0.00	3317.42	1610.40	0.00	0.00	1463.96
4873+00		50.00	192.88	15.75	29.5	0.00	356.32	29.17	75.85	0.00	3673.74	1701.42	0.00	0.00	1700.10
4873+50		50.00	204.89	15.75	7.46	0.00	368.31	29.17	34.22	0.00	4042.05	1742.49	0.00	0.00	1998.17
4874+00		50.00	262.2	15.00	0	0.00	432.49	28.47	6.91	0.00	4474.54	1750.78	0.00	0.00	2393.90
4874+50		50.00	191.1	15.38	13.08	0.00	419.72	28.13	12.11	0.00	4894.26	1765.31	0.00	0.00	2770.96
4875+00		50.00	177.48	15.38	28.73	0.00	341.28	28.47	38.71	0.00	5235.54	1811.77	0.00	0.00	3037.31
4875+50		50.00	157	15.00	48.83	0.00	309.70	28.13	71.81	0.00	5545.24	1897.94	0.00	0.00	3232.71
4876+00		50.00	143.3	15.38	56.52	0.00	278.06	28.13	97.55	0.00	5823.30	2015.00	0.00	0.00	3365.59
4876+50		50.00	139.17	15.38	59.01	0.00	261.55	28.47	106.97	0.00	6084.84	2143.37	0.00	0.00	3470.30
4877+00		50.00	143.71	15.38	64.29	0.00	261.93	28.47	114.17	0.00	6346.77	2280.37	0.00	0.00	3566.75
4877+50		50.00	152.45	15.38	51.39	0.00	274.22	28.47	107.11	0.00	6620.99	2408.90	0.00	0.00	3683.97
4878+00		50.00	163.62	15.38	30.16	0.00	292.66	28.47	75.51	0.00	6913.65	2499.51	0.00	0.00	3857.54
4878+50		50.00	190.67	15.38	25.42	0.00	328.05	28.47	51.46	0.00	7241.69	2561.27	0.00	0.00	4095.36
4879+00		50.00	208.95	15.00	33.9	0.00	370.02	28.13	54.93	0.00	7611.71	2627.18	0.00	0.00	4371.34
4879+50		50.00	232.73	15.00	19.28	0.00	408.96	27.78	49.24	0.00	8020.68	2686.27	0.00	0.00	4693.44
4880+00		50.00	249.9	15.00	7.85	0.00	446.88	27.78	25.12	0.00	8467.56	2716.41	0.00	0.00	5082.39
4880+50		50.00	223.86	15.00	0.25	0.00	438.67	27.78	7.50	0.00	8906.22	2725.41	0.00	0.00	5484.28
4881+00		50.00	220.66	15.38	19.86	0.00	411.59	28.13	18.62	0.00	9317.81	2747.76	0.00	0.00	5845.41
4881+50		50.00	375.84	15.38	20.5	0.00	552.31	28.47	37.37	0.00	9870.13	2792.60	0.00	0.00	6324.40
4882+00		50.00	97.26	15.38	34.65	0.00	438.06	28.47	51.06	0.00	10308.19	2853.88	0.00	0.00	6672.71
4882+50		50.00	264.93	15.00	12.99	0.00	335.36	28.13	44.11	0.00	10643.55	2906.81	0.00	0.00	6927.01
4883+00		50.00	257.59	15.38	10.66	0.00	483.81	28.13	21.90	0.00	11127.36	2933.09	0.00	0.00	7356.43
4883+50		50.00	215	15.75	16.74	0.00	437.58	28.82	25.37	0.00	11564.94	2963.53	0.00	0.00	7734.74
4884+00		50.00	201.09	15.38	31.81	0.00	385.27	28.82	44.95	0.00	11950.21	3017.48	0.00	0.00	8037.25
4884+50		50.00	184.22	13.13	27.89	0.00	356.77	26.39	55.28	0.00	12306.98	3083.81	0.00	0.00	8301.30
4885+00		50.00	99.94	10.88	56.93	0.00	263.11	22.22	78.54	0.00	12570.09	3178.06	0.00	0.00	8447.94
4885+50		50.00	110.2	8.25	113.15	0.00	194.57	17.71	157.48	0.00	12764.67	3367.03	0.00	0.00	8435.83
4886+00		50.00	120.38	8.25	207.74	0.00	213.50	15.28	297.12	0.00	12978.17	3723.58	0.00	0.00	8277.51
4886+50		50.00	134.99	8.25	289.41	0.00	236.45	15.28	460.32	0.00	13214.62	4275.97	0.00	0.00	7946.29
4887+00		50.00	167.17	8.25	311.27	0.00	279.78	15.28	556.19	0.00	13494.40	4943.39	0.00	0.00	7543.37
4887+50		50.00	135.57	8.25	423.08	0.00	280.31	15.28	679.95	0.00	13774.71	5759.33	0.00	0.00	6992.46
4888+00		50.00	117.68	8.63	543.49	0.00	234.49	15.63	894.97	0.00	14009.20	6833.30	0.00	0.00	6137.36
4888+50		50.00	100.63	9.00	533.81	0.00	202.14	16.32	997.50	0.00	14211.34	8030.30	0.00	0.00	5126.18
4889+00		50.00	131.54	10.88	410.03	0.00	214.97	18.40	873.93	0.00	14426.31	9079.01	0.00	0.00	4274.04
4889+50		50.00	247.51	10.88	316.66	0.00	350.97	20.14	672.86	0.00	14777.29	9886.44	0.00	0.00	3797.44
4889+56	BK	6.00	247.51	10.88	316.66	0.00	55.00	2.42	70.37	0.00	14832.29	9970.89	0.00	0.00	3765.58
					Column totals		14832.29	1095.82	8309.07	0.00					

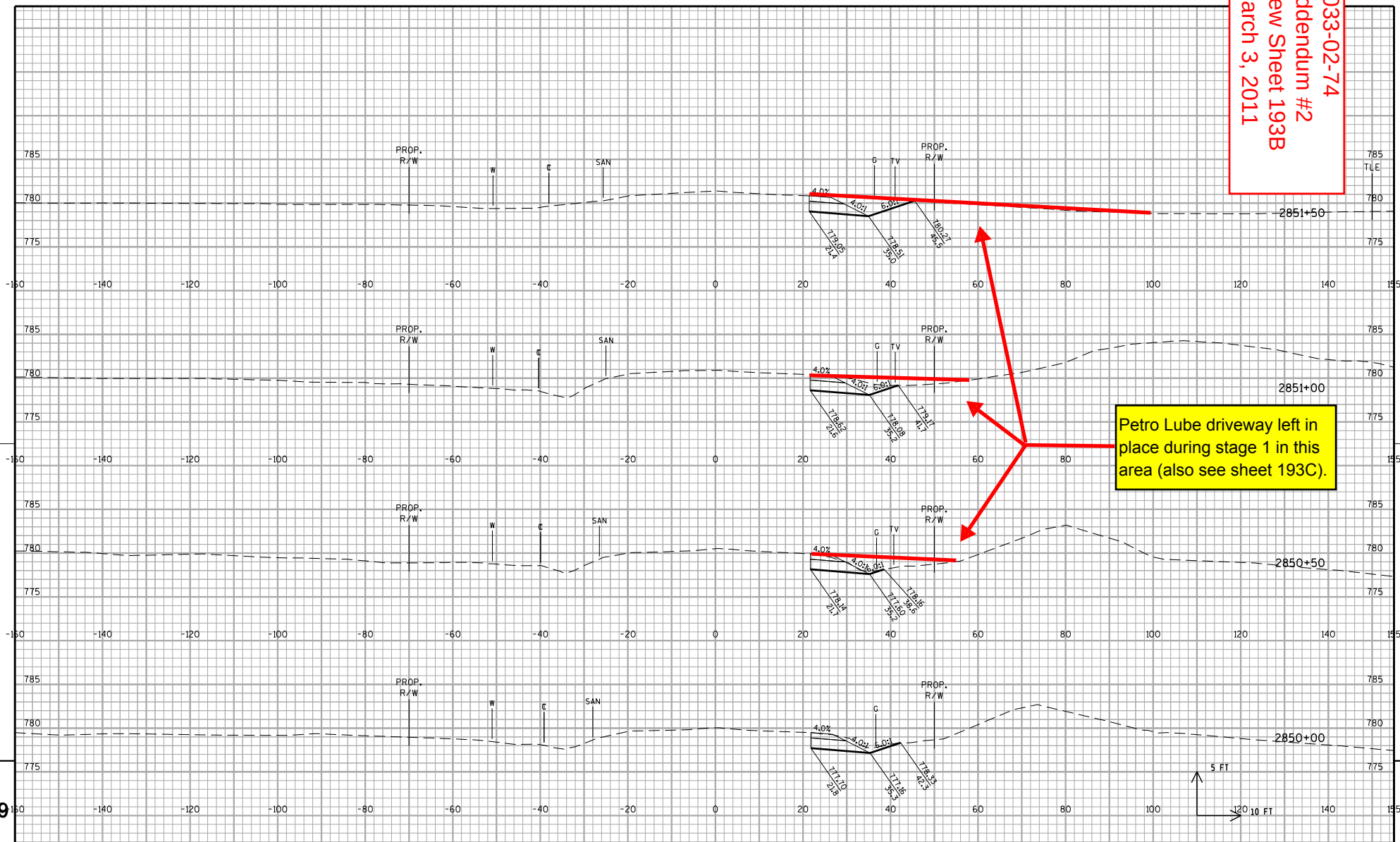
WEST FRONTAGE ROAD NORTH (DIVISION 2)

STATION		Distance	AREA (SF) Cut	Salvaged/Unusable Pavement Material	Fill	EBS	Incremental Vol (CY) (Unadjusted) Cut	Salvaged/Unusable Pavement Material	Fill	EBS	Cumulative Vol (CY) Cut 1.00	Expanded Fill 1.2	Expanded EBS Backfill 1.30	Reduced EBS In Fill 0.80	Mass Ordinate
4890+50	AH		143.53	14.25	18.86	0.00	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00
4891+00		50.00	170.56	14.25	41.93	0.00	290.82	26.39	56.29	0.00	290.82	67.54	0.00	0.00	196.89
4891+50		50.00	175.94	14.25	58.79	0.00	320.83	26.39	93.26	0.00	611.66	179.46	0.00	0.00	379.42
4892+00		50.00	141.69	14.25	56.11	0.00	294.10	26.39	106.39	0.00	905.76	307.12	0.00	0.00	519.47
4892+50		50.00	127.06	14.25	287.74	0.00	248.84	26.39	318.38	0.00	1154.60	689.18	0.00	0.00	359.87
4893+00		50.00	128.56	14.25	105.35	0.00	236.69	26.39	363.97	0.00	1391.29	1125.94	0.00	0.00	133.40
4893+50		50.00	162.33	14.25	0.62	0.00	269.34	26.39	98.12	0.00	1660.63	1243.69	0.00	0.00	258.61
4894+00		50.00	229.2	14.25	0	0.00	362.53	26.39	0.57	0.00	2023.16	1244.38	0.00	0.00	594.06
4894+50		50.00	154.58	14.25	75.14	0.00	355.35	26.39	69.57	0.00	2378.51	1327.87	0.00	0.00	839.53
4895+00		50.00	168.69	14.25	52.47	0.00	299.32	26.39	118.16	0.00	2677.83	1469.66	0.00	0.00	970.68
4895+50		50.00	162.2	14.25	11.14	0.00	306.38	26.39	58.90	0.00	2984.21	1540.33	0.00	0.00	1179.99
4896+00		50.00	155.1	14.25	5.85	0.00	293.80	26.39	15.73	0.00	3278.01	1559.21	0.00	0.00	1428.52
4896+50		50.00	156.97	14.25	0.69	0.00	288.95	26.39	6.06	0.00	3566.96	1566.48	0.00	0.00	1683.82
4896+88	BK	38.00	156.04	14.25	0	0.00	220.27	20.06	0.49	0.00	3787.23	1567.06	0.00	0.00	1883.45
						Column totals	3787.23	336.72	1305.88	0.00					

CTH C

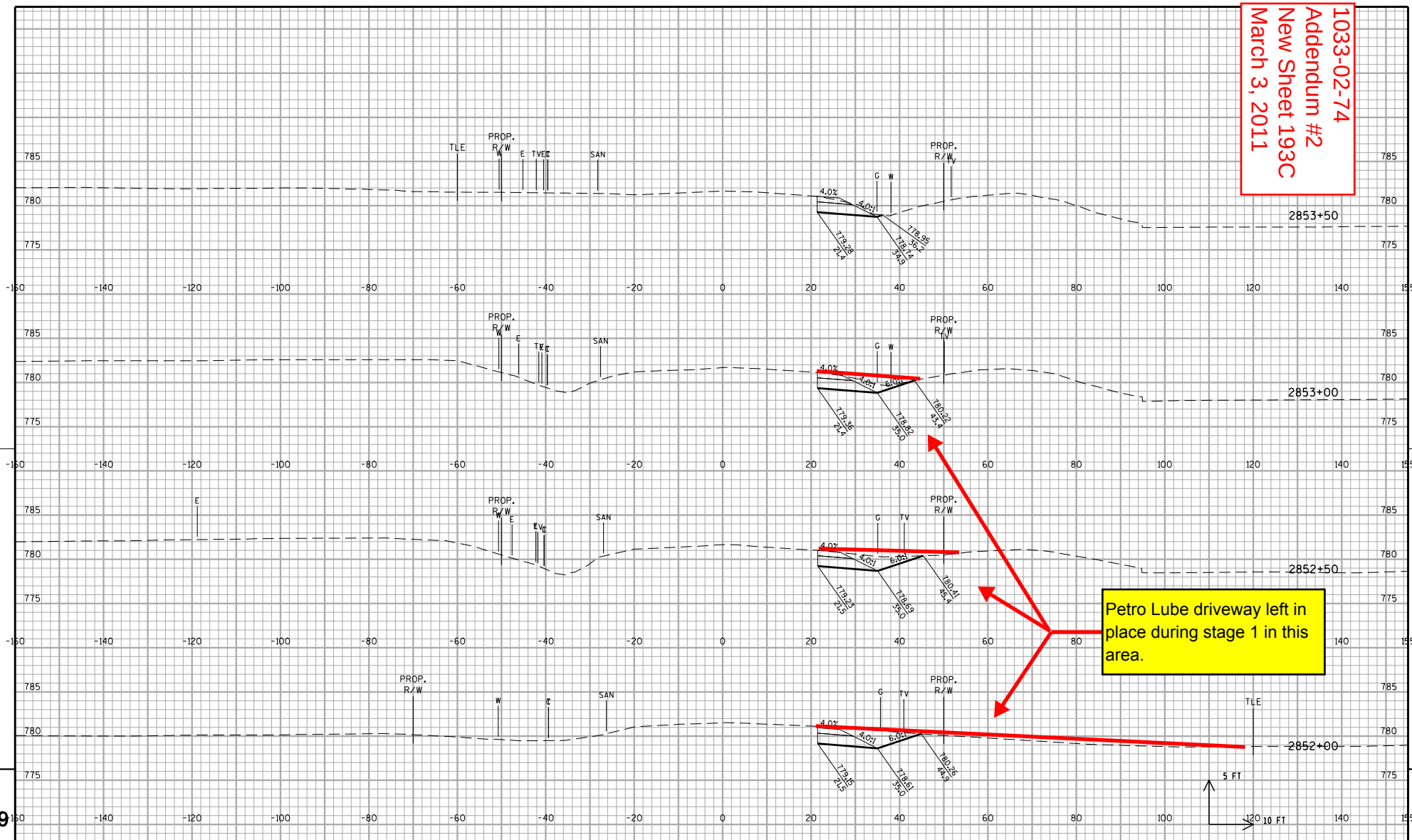
STATION		Distance	AREA (SF) Cut	Salvaged/Unusable Pavement Material	Fill	EBS	Incremental Vol (CY) (Unadjusted) Cut	Salvaged/Unusable Pavement Material	Fill	EBS	Cumulative Vol (CY) Cut 1.00	Expanded Fill 1.2	Expanded EBS Backfill 1.30	Reduced EBS In Fill 0.80	Mass Ordinate
57+45	AH		58.59	0.00	0.04	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
57+50		5.00	58.7	12.00	0.01	0.00	10.86	1.11	0.00	0.00	10.86	0.01	0.00	0.00	9.74
58+00		50.00	44.05	12.00	0	0.00	95.14	22.22	0.01	0.00	106.00	0.02	0.00	0.00	82.65
58+50		50.00	41.72	12.00	0	0.00	79.42	22.22	0.00	0.00	185.42	0.02	0.00	0.00	139.84
59+00		50.00	54.06	12.00	0	0.00	88.69	22.22	0.00	0.00	274.10	0.02	0.00	0.00	206.31
59+50		50.00	56.63	12.00	0.03	0.00	102.49	22.22	0.03	0.00	376.59	0.05	0.00	0.00	286.54
60+00		50.00	28.72	12.00	0.04	0.00	79.03	22.22	0.06	0.00	455.62	0.13	0.00	0.00	343.27
60+50		50.00	57.98	12.00	0	0.00	80.28	22.22	0.04	0.00	535.90	0.17	0.00	0.00	401.28
61+00		50.00	59.65	12.00	0	0.00	108.92	22.22	0.00	0.00	644.81	0.17	0.00	0.00	487.98
61+50		50.00	56.25	12.00	0.17	0.00	107.31	22.22	0.16	0.00	752.13	0.36	0.00	0.00	572.88
62+00		50.00	22.7	12.00	4.99	0.00	73.10	22.22	4.78	0.00	825.23	6.09	0.00	0.00	618.03
62+50		50.00	51.54	12.00	24.47	0.00	68.74	22.22	27.28	0.00	893.97	38.83	0.00	0.00	631.81
63+00		50.00	64.9	12.00	44.12	0.00	107.81	22.22	63.51	0.00	1001.79	115.04	0.00	0.00	641.19
63+50		50.00	58.55	12.00	28.6	0.00	114.31	22.22	67.33	0.00	1116.09	195.84	0.00	0.00	652.48
64+00		50.00	40.94	12.00	59.64	0.00	92.12	22.22	81.70	0.00	1208.21	293.88	0.00	0.00	624.33
64+50		50.00	56.78	12.88	0.29	0.00	90.48	23.03	55.49	0.00	1298.69	360.47	0.00	0.00	625.19
65+00		50.00	58.23	9.00	10.98	0.00	106.49	20.25	10.44	0.00	1405.18	372.99	0.00	0.00	698.90
65+50		50.00	43.09	9.00	0	0.00	93.81	16.67	10.17	0.00	1499.00	385.19	0.00	0.00	763.85
65+95	BK	45.00	51.93	16.75	0	0.00	79.18	21.46	0.00	0.00	1578.18	385.19	0.00	0.00	821.58
						Column totals	1578.18	371.41	321.00	0.00					

1033-02-74
Addendum #2
New Sheet 193B
March 3, 2011



PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD - STAGE 1	SHEET 193B	E

1033-02-74
Addendum #2
New Sheet 193C
March 3, 2011

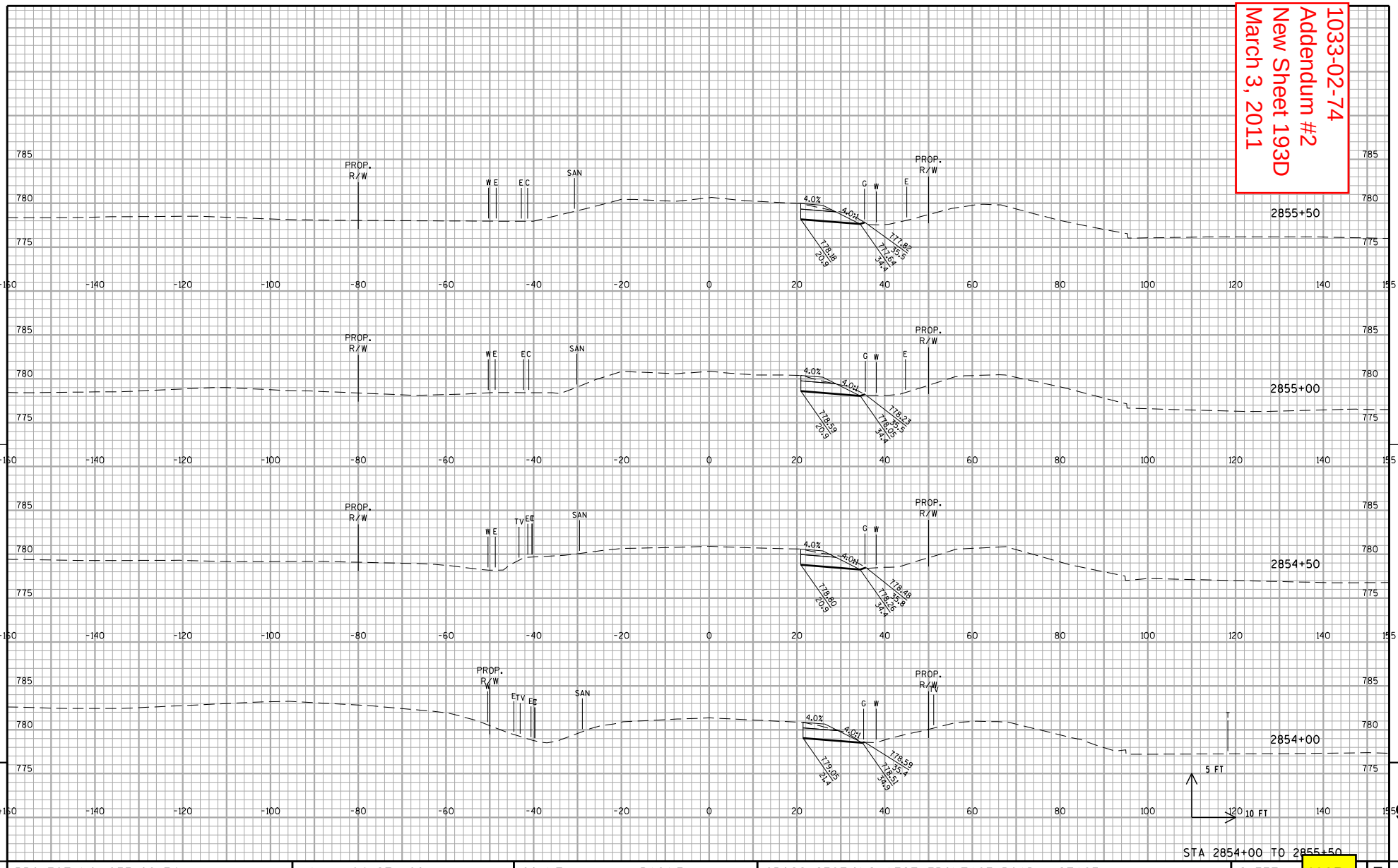


PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD - STAGE 1	SHEET 193C	E

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WISDOT/CADDS SHEET 21

1033-02-74
Addendum #2
New Sheet 193D
March 3, 2011



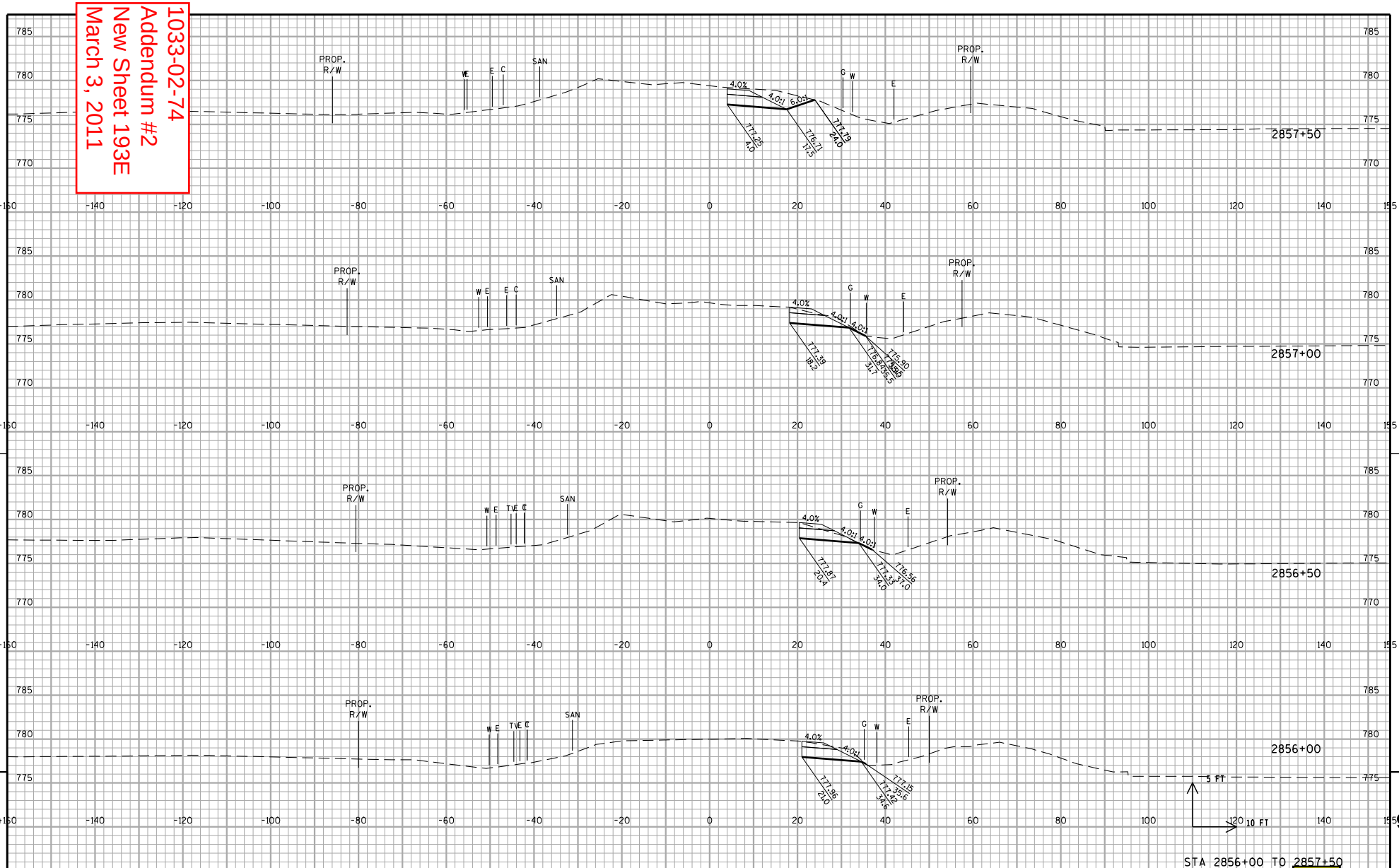
STA 2854+00 TO 2855+50

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD - STAGE 1	SHEET 193D	E

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WISDOT/CADDS SHEET 21

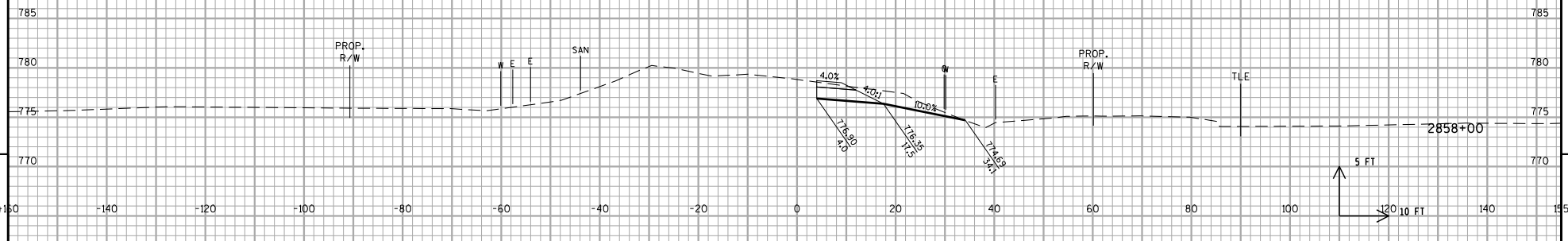
1033-02-74
Addendum #2
New Sheet 193E
March 3, 2011



STA 2856+00 TO 2857+50

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD - STAGE 1	SHEET 193E	E

1033-02-74
Addendum #2
New Sheet 193F
March 3, 2011



STA 2858+00 TO 2858+00

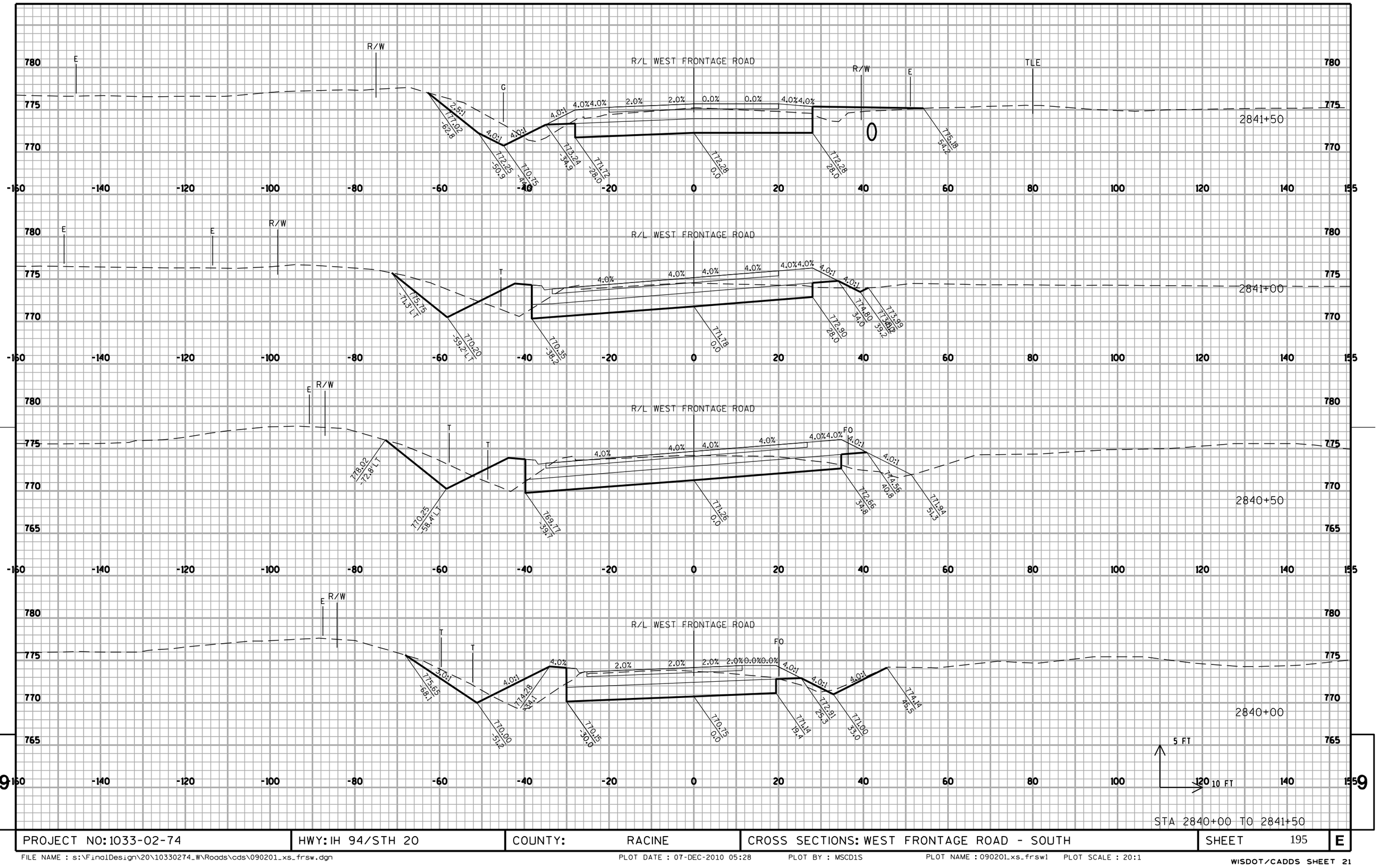
PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD - STAGE 1	SHEET 193F	E

STA 2838+77 TO 2839+50

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD - SOUTH	SHEET 194	E

FILE NAME : s:\FinalDesign\20\10330274_W\Roads\cds\090201_xs_frsw.dgn PLOT DATE : 07-DEC-2010 05:28 PLOT BY : MSCD1S PLOT NAME : 090201_xs_frsw PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

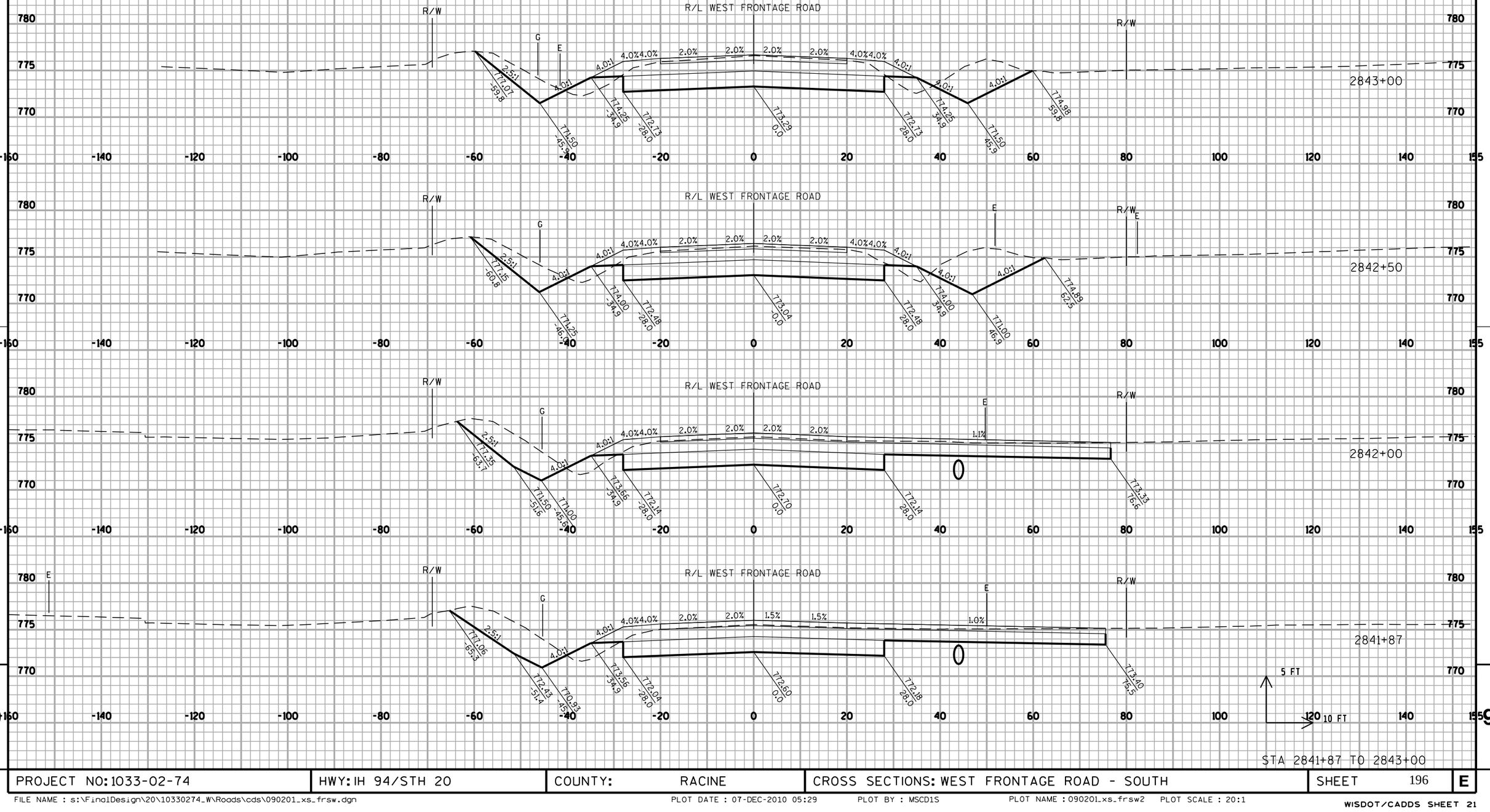


STA 2840+00 TO 2841+50

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD - SOUTH	SHEET 195	E

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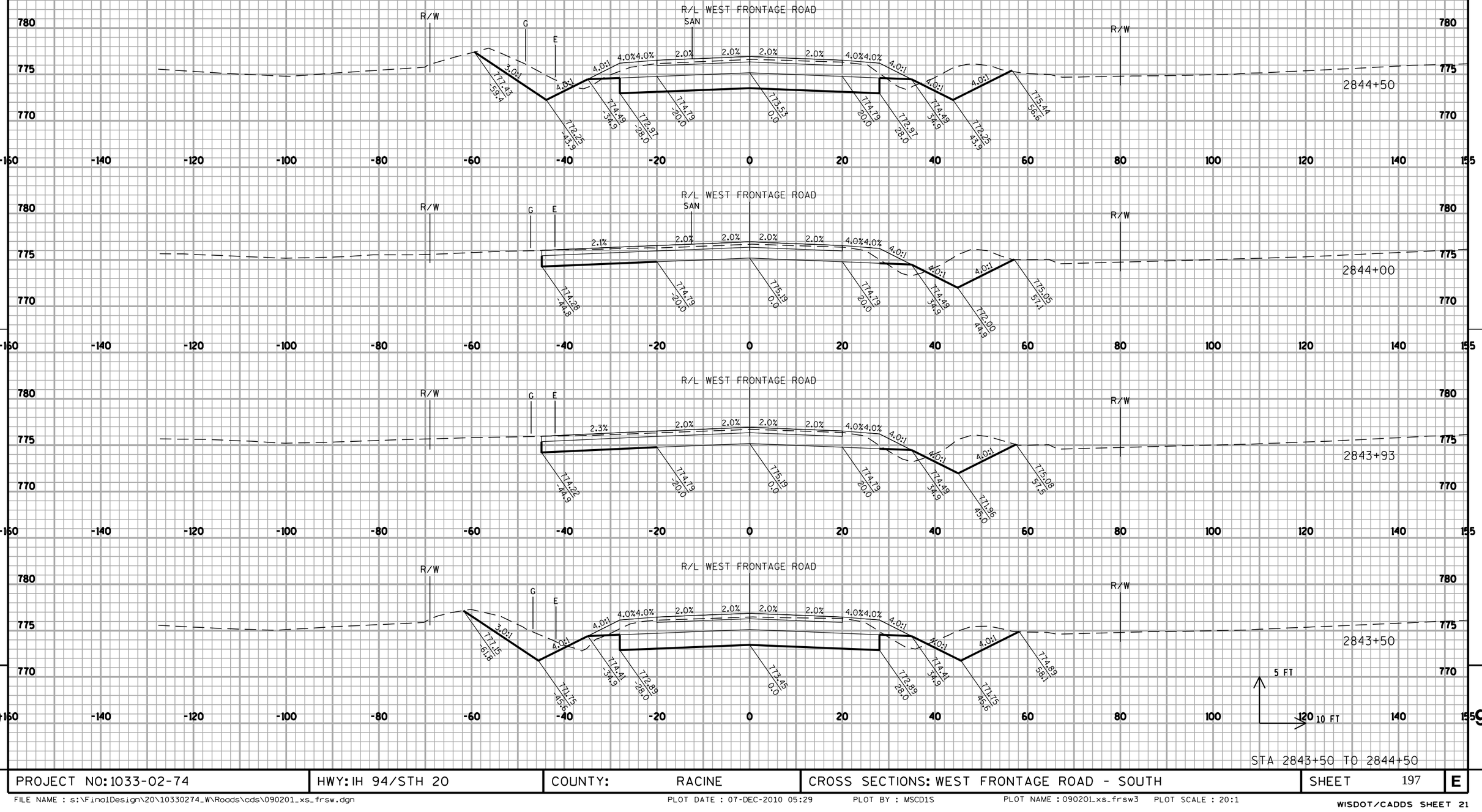
WISDOT/CADDS SHEET 21



PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD - SOUTH	SHEET 196	E

FILE NAME : s:\FinalDesign\20\10330274_W\Roads\cds\090201_xs_frsw.dgn PLOT DATE : 07-DEC-2010 05:29 PLOT BY : MSCD1S PLOT NAME : 090201_xs_frsw2 PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



STA 2843+50 TO 2844+50

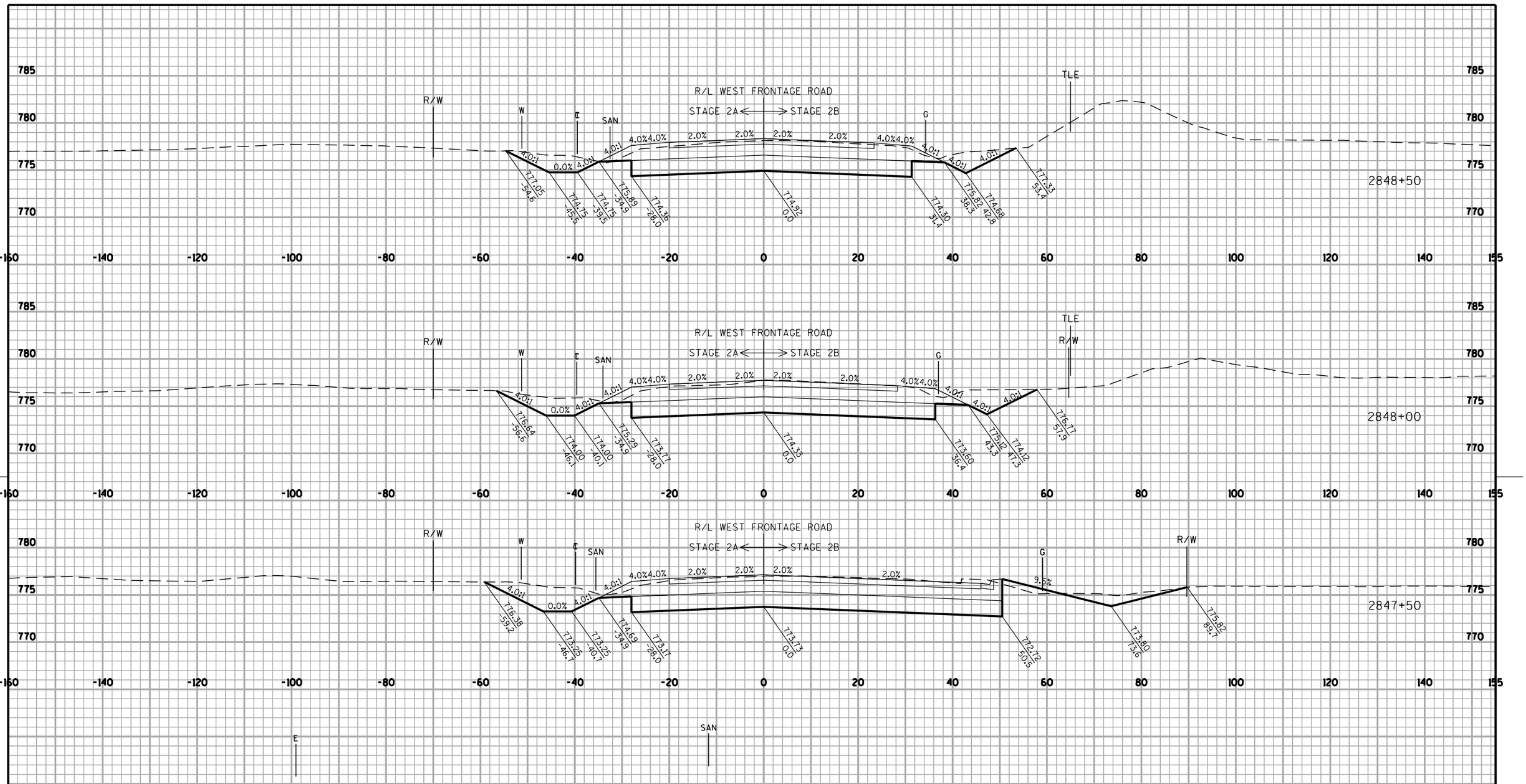
PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD - SOUTH	SHEET 197	E

STA 2845+00 TO 2846+50

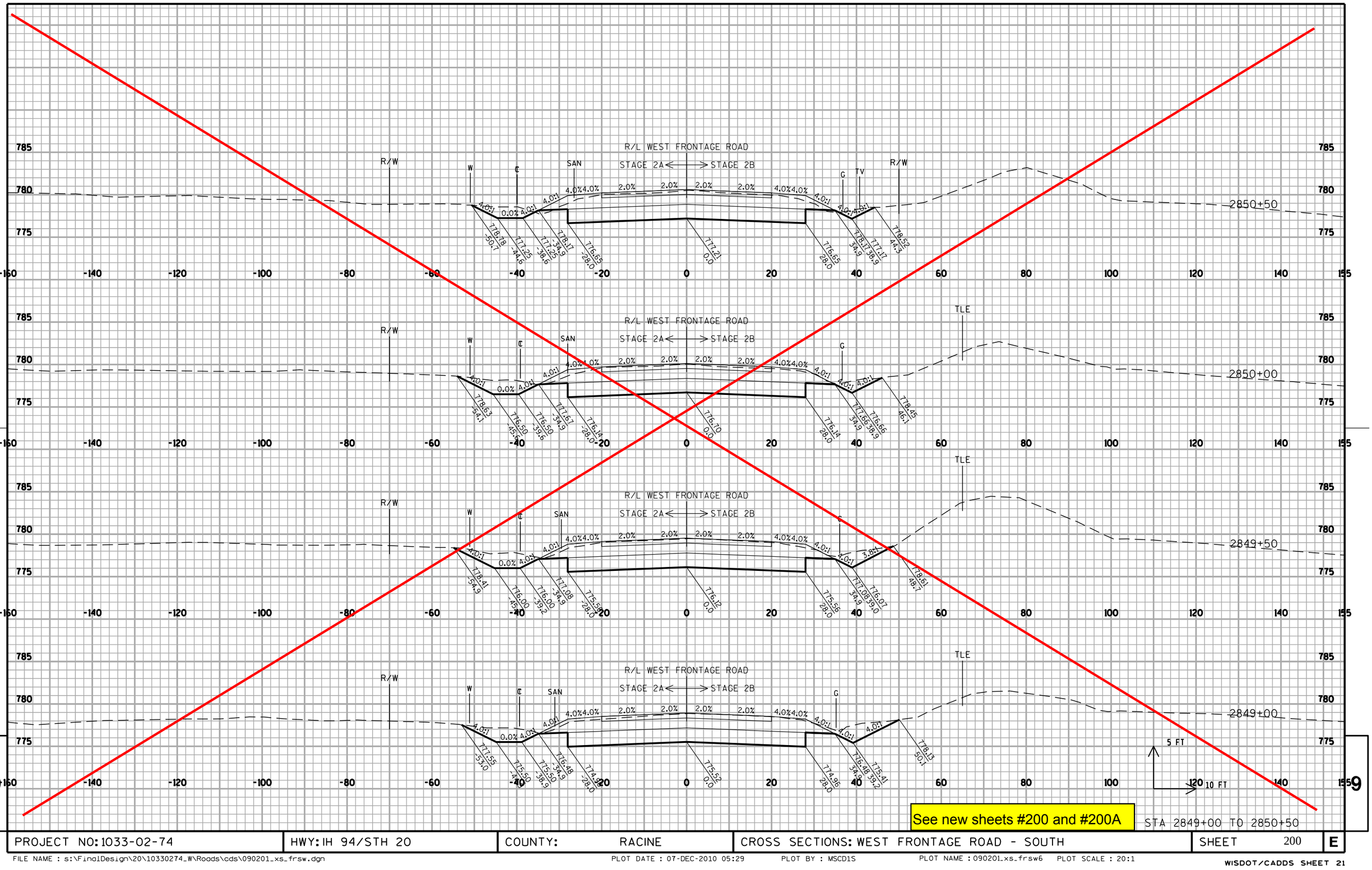
PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD - SOUTH	SHEET 198	E

FILE NAME : s:\FinalDesign\20\10330274_W\Roads\cds\090201_xs_frsw.dgn PLOT DATE : 07-DEC-2010 05:29 PLOT BY : MSCD1S PLOT NAME : 090201_xs_frsw4 PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD - SOUTH	SHEET 199	E



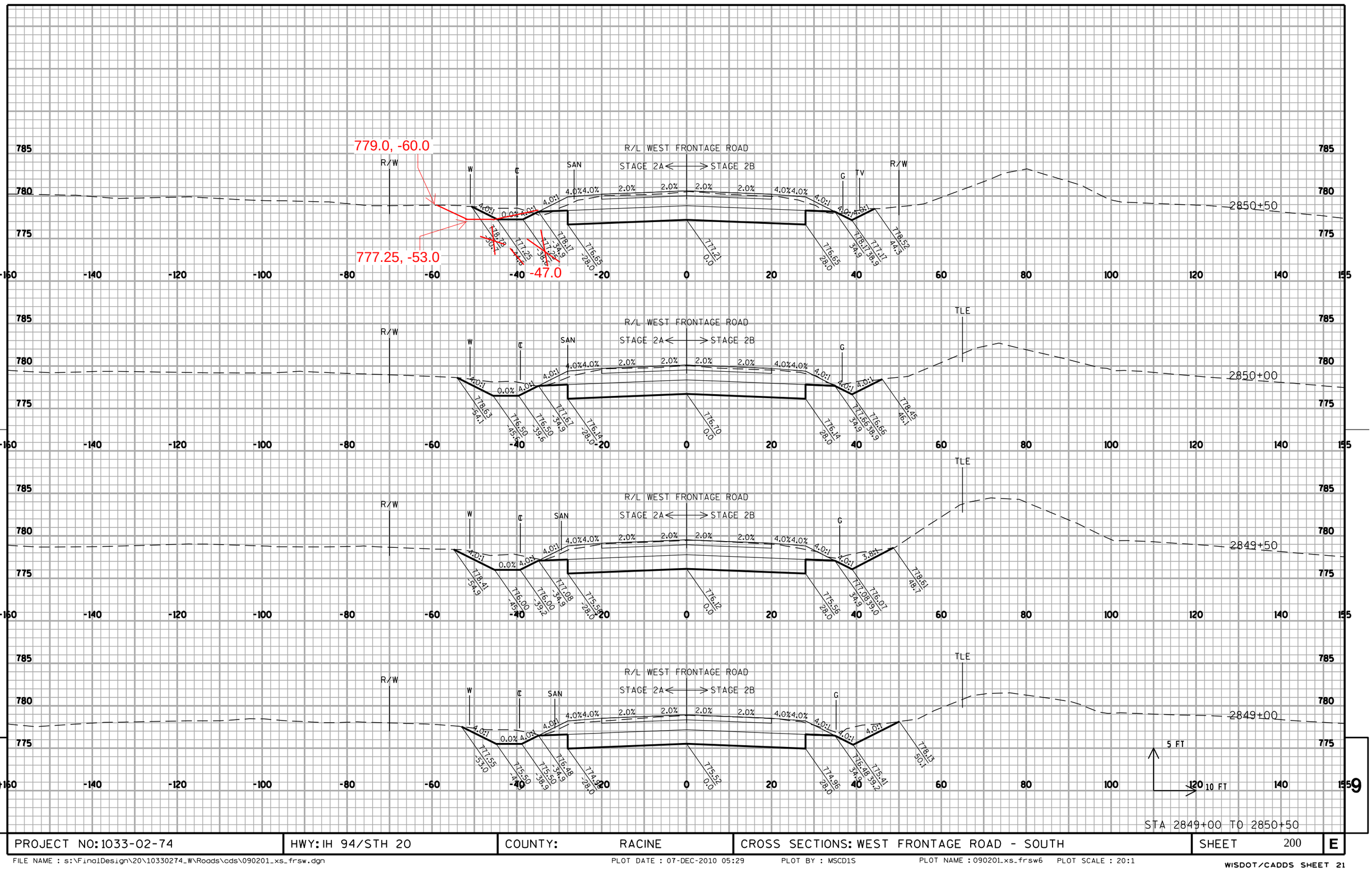
See new sheets #200 and #200A

STA 2849+00 TO 2850+50

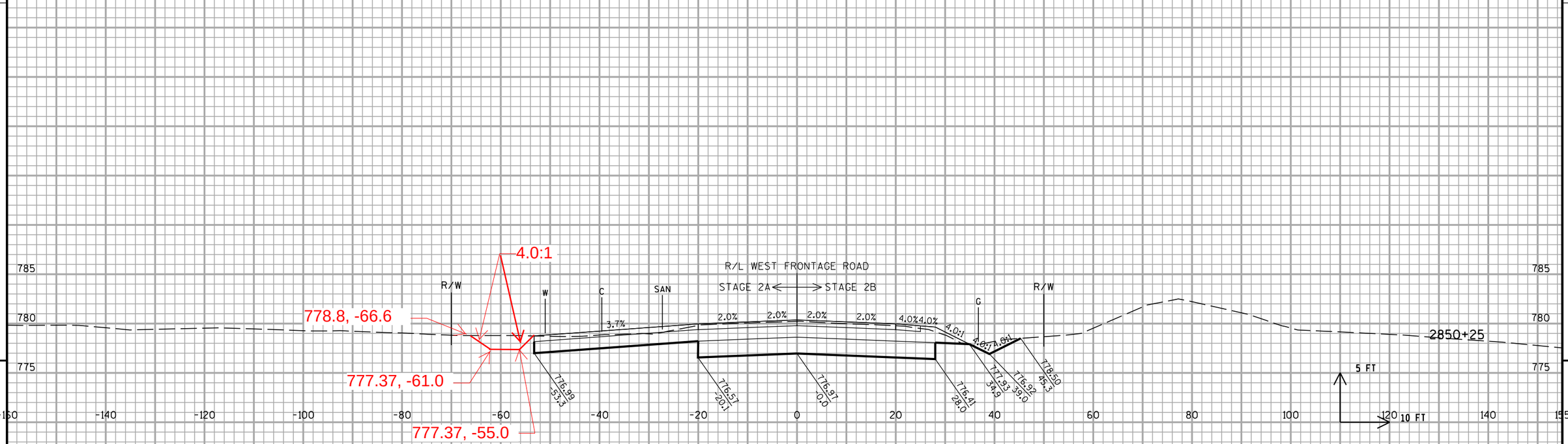
PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD - SOUTH	SHEET 200	E

FILE NAME : s:\FinalDesign\20\10330274_W\Roads\cds\090201_xs_frsw.dgn PLOT DATE : 07-DEC-2010 05:29 PLOT BY : MSCD1S PLOT NAME : 090201_xs_frsw6 PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD - SOUTH	SHEET 200	E



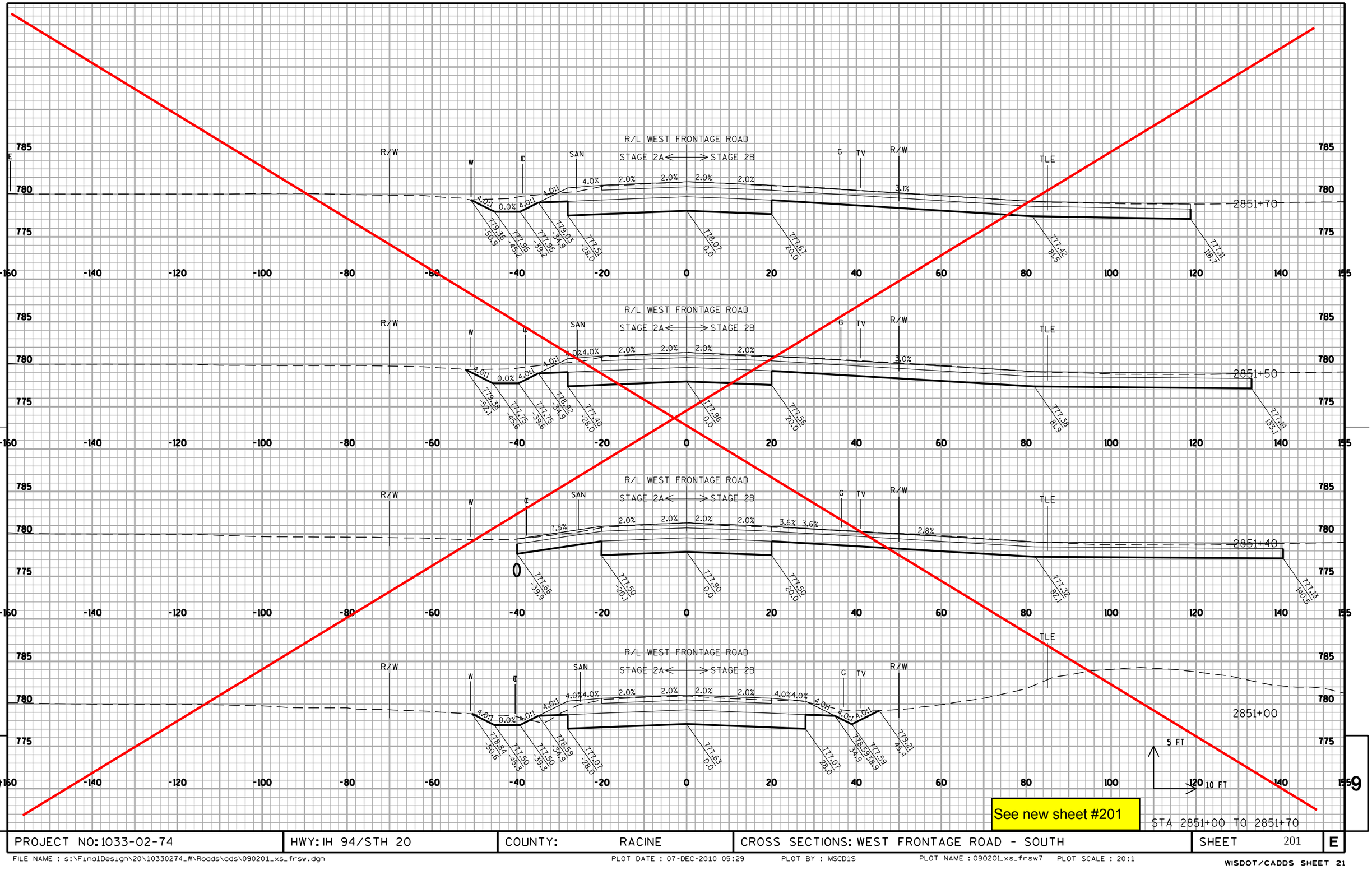
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STA 2850+25 TO 2850+25

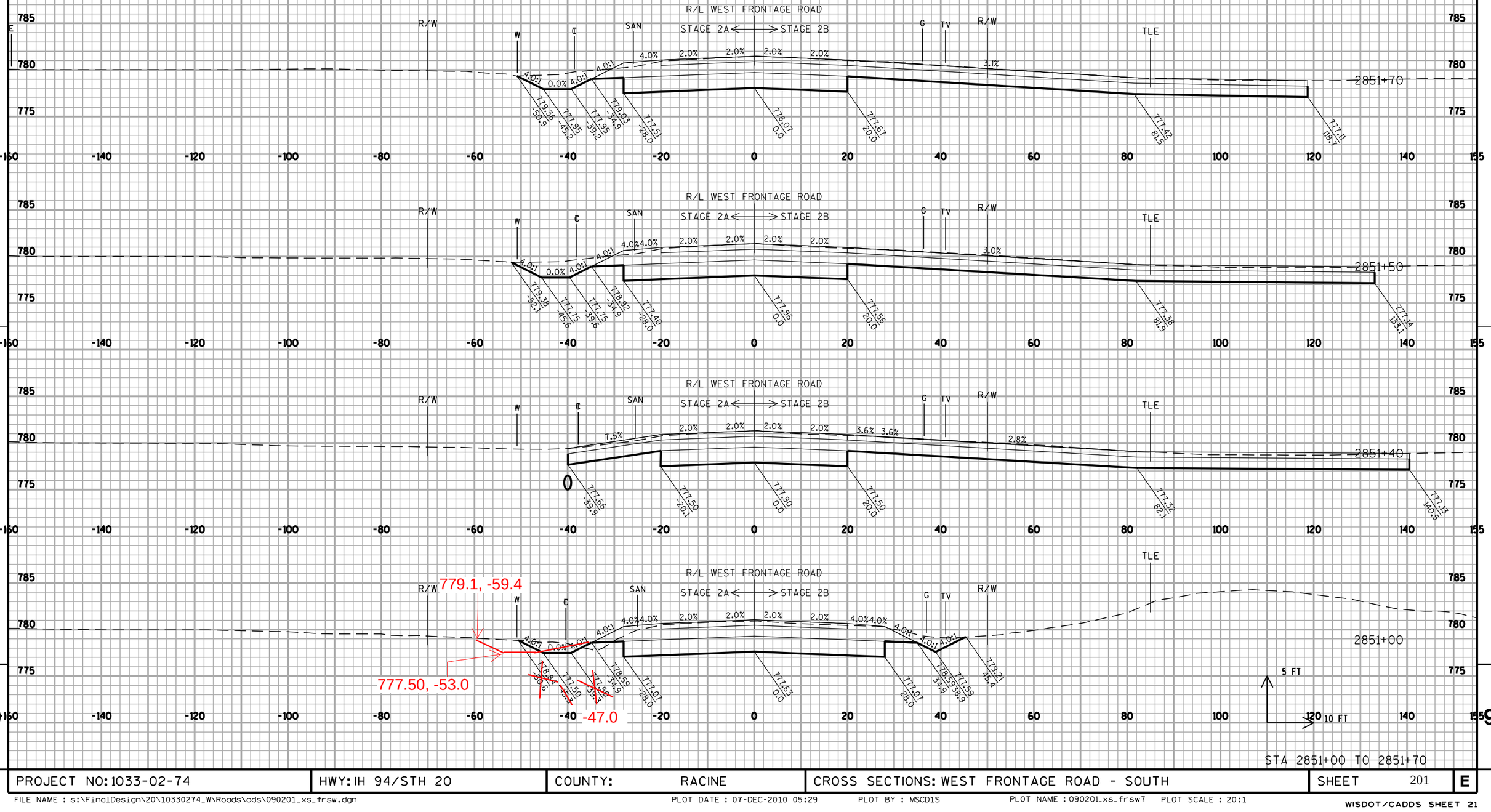
PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD - SOUTH	SHEET 200A	E

FILE NAME : C:\w3mtp\FinalDesign\20\To Be Filed\090205_xs_frsw2.dgn PLOT DATE : 5/9/2011 PLOT BY : mtp94nscREMOTE PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

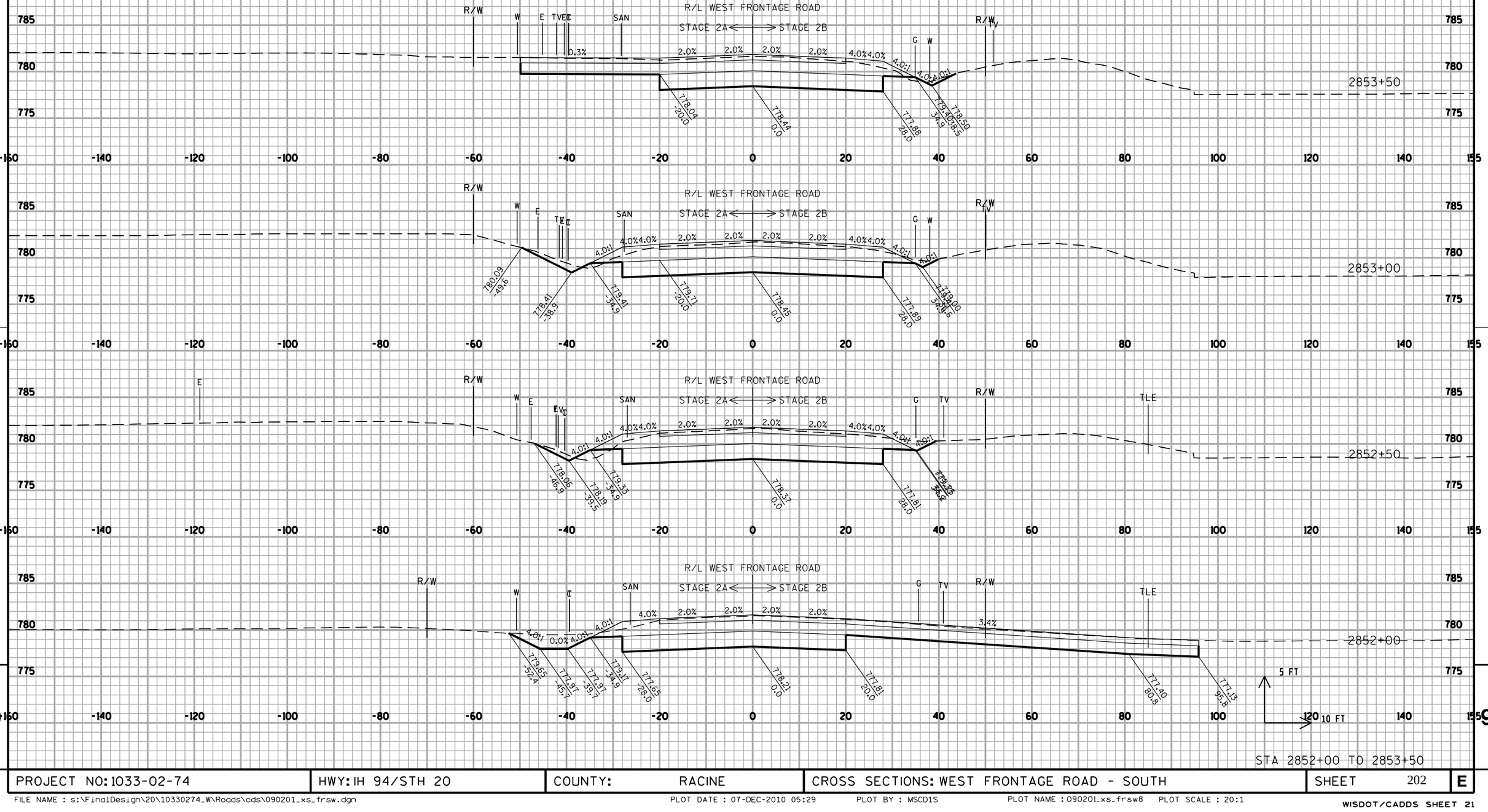


PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD - SOUTH	SHEET 201	E



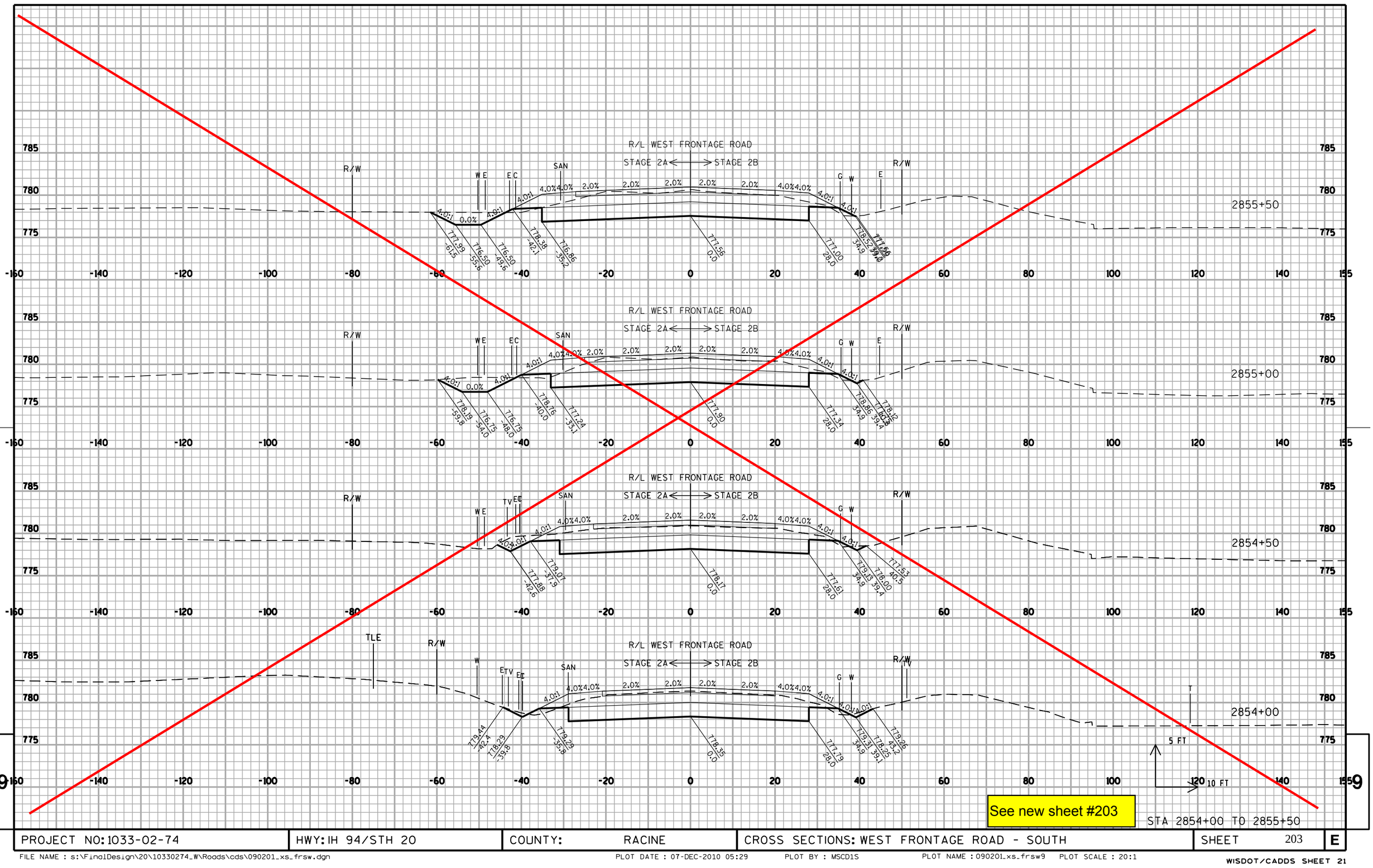
STA 2851+00 TO 2851+70

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD - SOUTH	SHEET 201	E



STA 2852+00 TO 2853+50

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD - SOUTH	SHEET 202	E



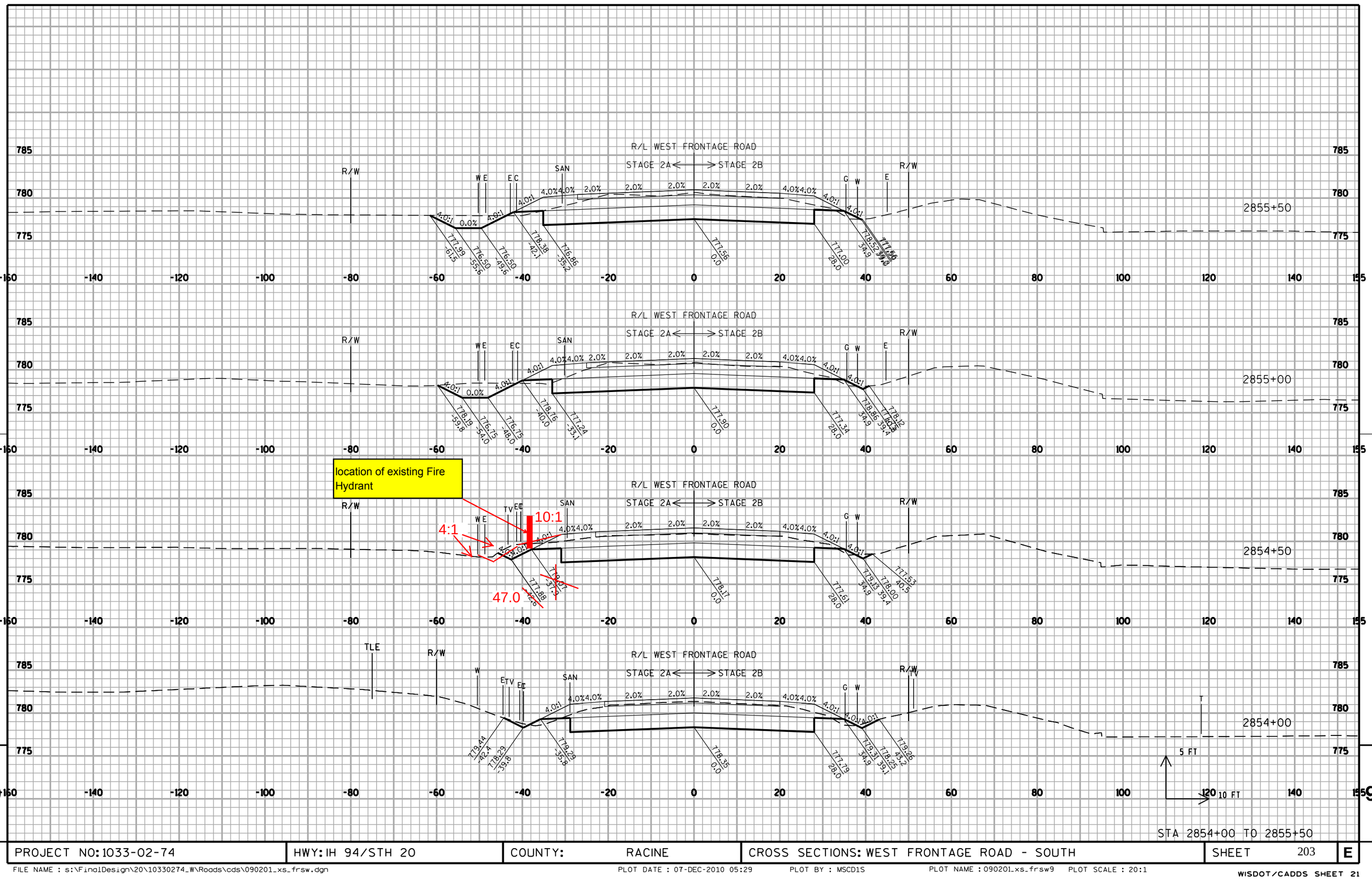
See new sheet #203

STA 2854+00 TO 2855+50

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD - SOUTH	SHEET 203	E

FILE NAME : s:\FinalDesign\20\10330274_W\Roads\cds\090201_xs_frsw.dgn PLOT DATE : 07-DEC-2010 05:29 PLOT BY : MSCD1S PLOT NAME : 090201_xs_frsw9 PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

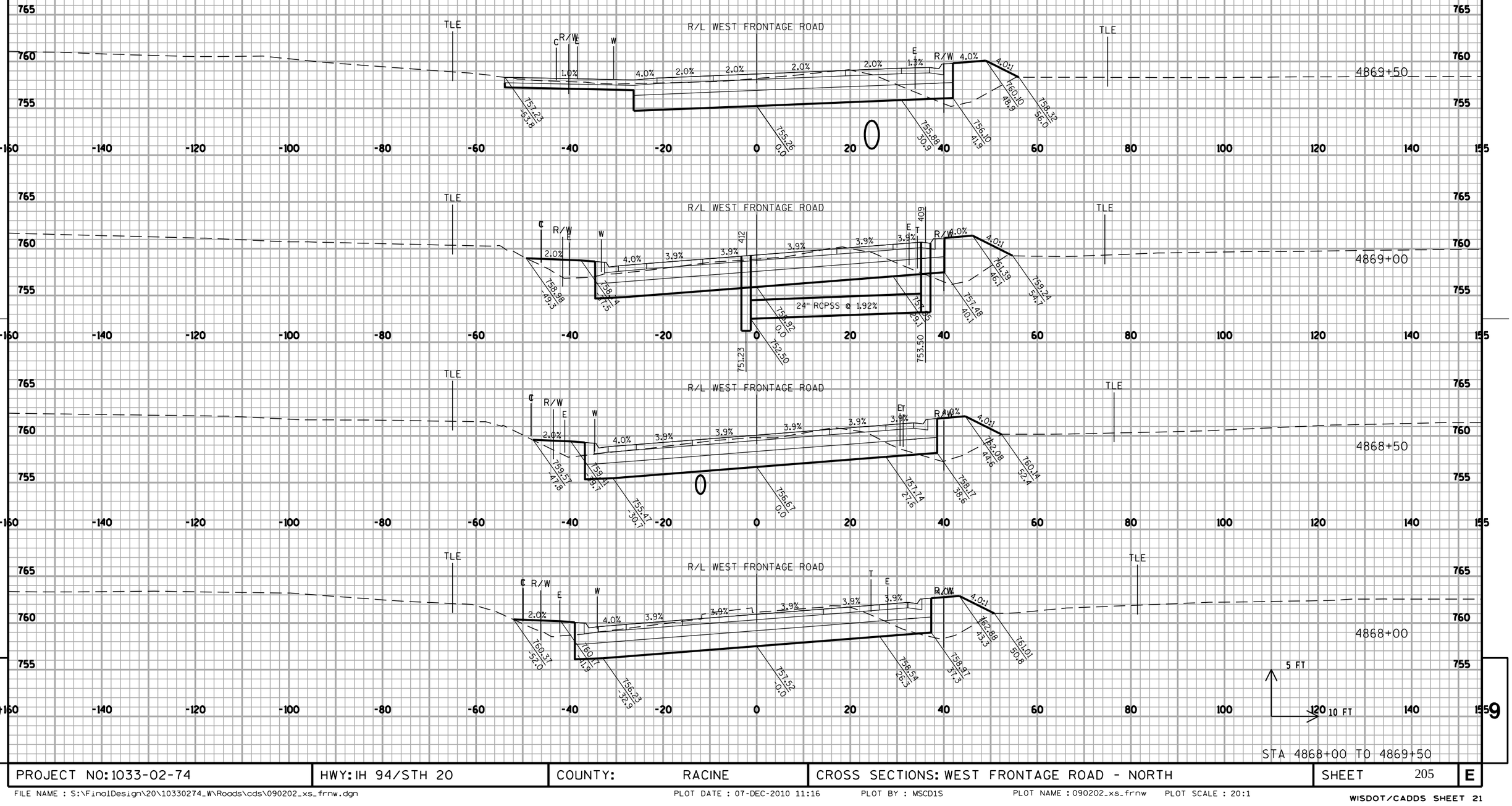


STA 2854+00 TO 2855+50

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD - SOUTH	SHEET 203	E

STA 2856+00 TO 2857+00

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD - SOUTH	SHEET 204	E

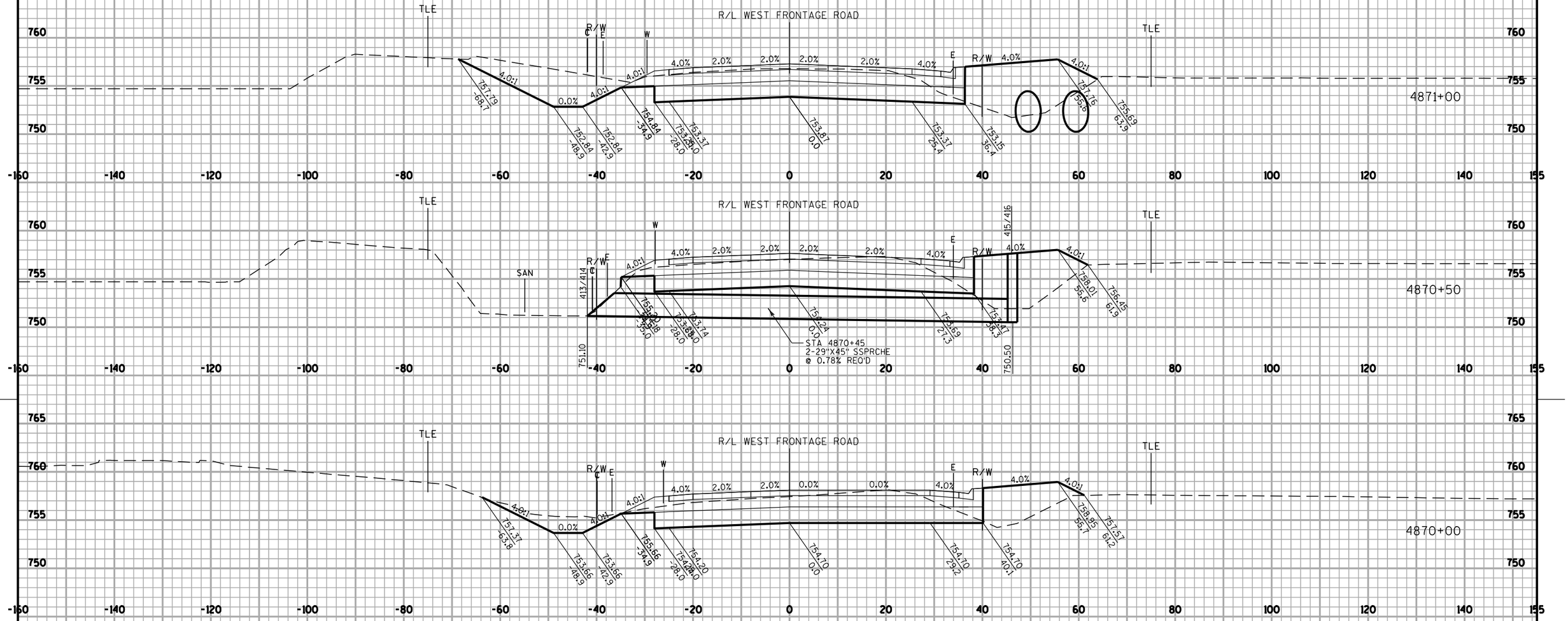


STA 4868+00 TO 4869+50

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD - NORTH	SHEET 205	E

FILE NAME : S:\FinalDesign\20\10330274_W\Roads\cds\090202_xs_frnw.dgn PLOT DATE : 07-DEC-2010 11:16 PLOT BY : MSCD1S PLOT NAME : 090202_xs_frnw PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

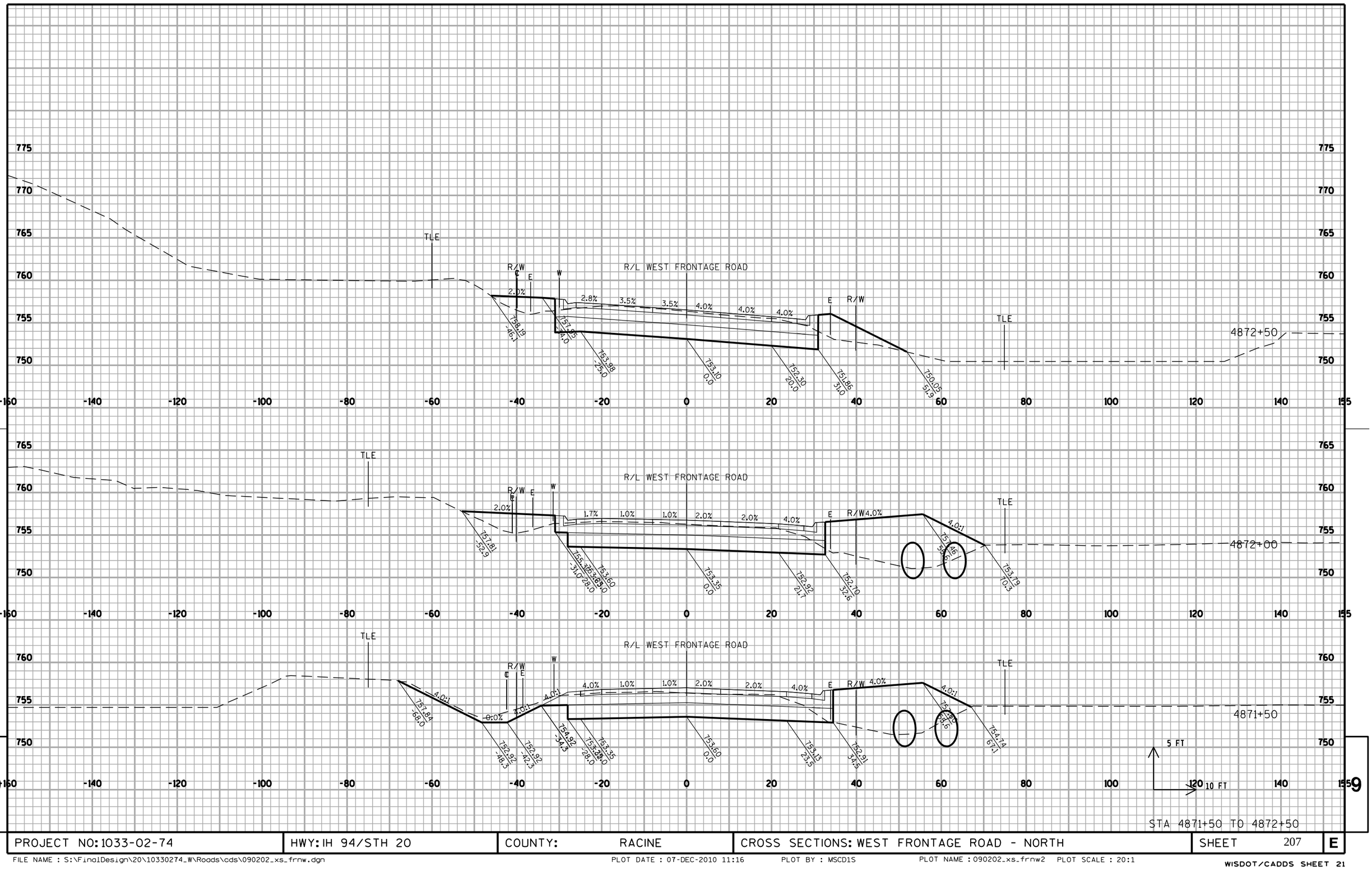


STA 4869+51 TO 4871+00

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD - NORTH	SHEET 206	E

FILE NAME : S:\FinalDesign\20\10330274_W\Roads\cds\090202_xs_frnw.dgn PLOT DATE : 07-DEC-2010 11:16 PLOT BY : MSCD1S PLOT NAME : 090202_xs_frnw1 PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



STA 4871+50 TO 4872+50

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD - NORTH	SHEET 207	E

FILE NAME : S:\FinalDesign\20\10330274_W\Roads\cds\090202_xs_frnw.dgn PLOT DATE : 07-DEC-2010 11:16 PLOT BY : MSCD1S PLOT NAME : 090202_xs_frnw2 PLOT SCALE : 20:1

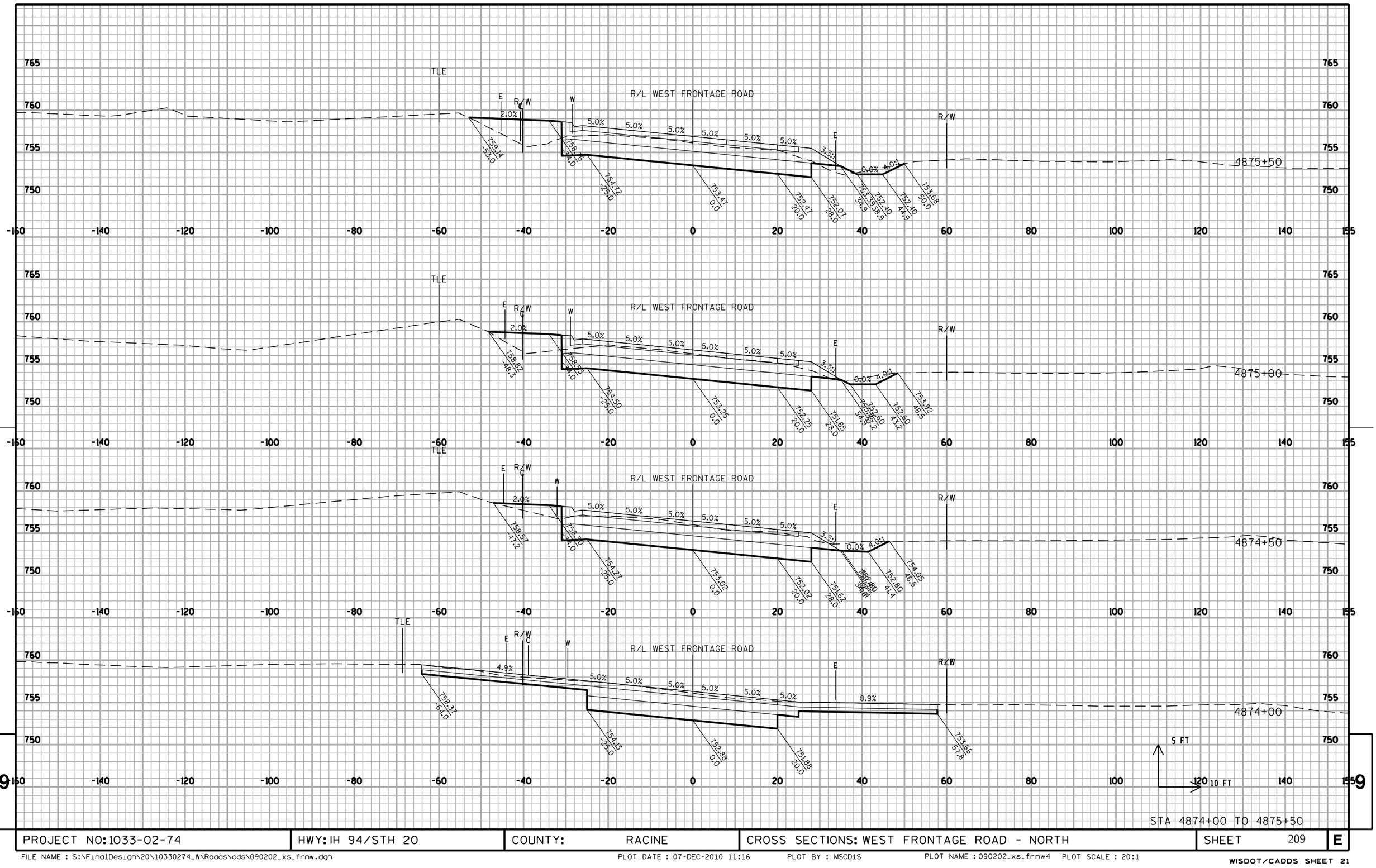
WISDOT/CADDS SHEET 21

STA 4873+00 TO 4873+84

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD - NORTH	SHEET 208	E

FILE NAME : S:\FinalDesign\20\10330274_W\Roads\cds\090202_xs_frnw.dgn PLOT DATE : 07-DEC-2010 11:16 PLOT BY : MSCD1S PLOT NAME : 090202_xs_frnw3 PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



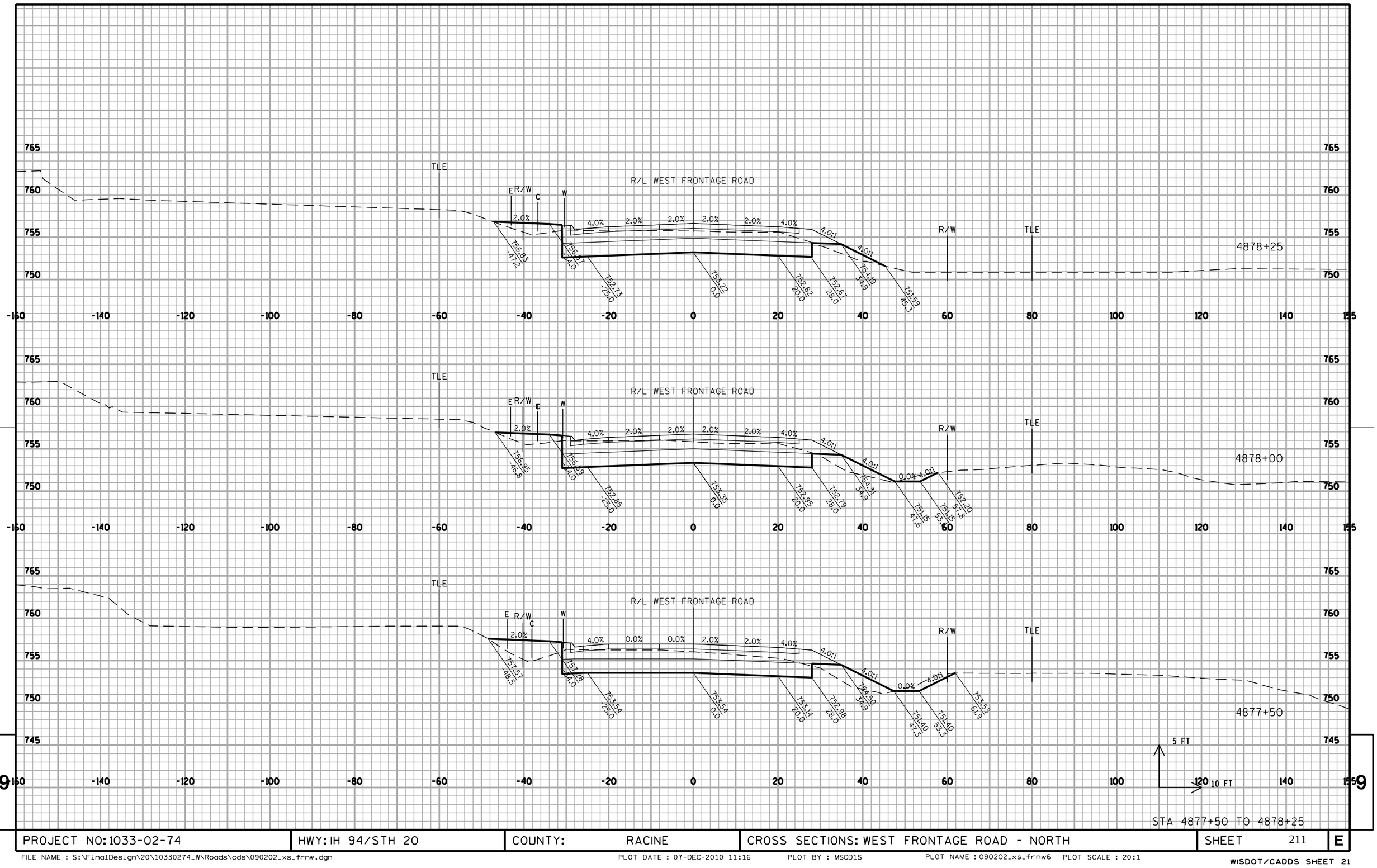
STA 4874+00 TO 4875+50

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD - NORTH	SHEET 209	E

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD - NORTH	SHEET 210	E

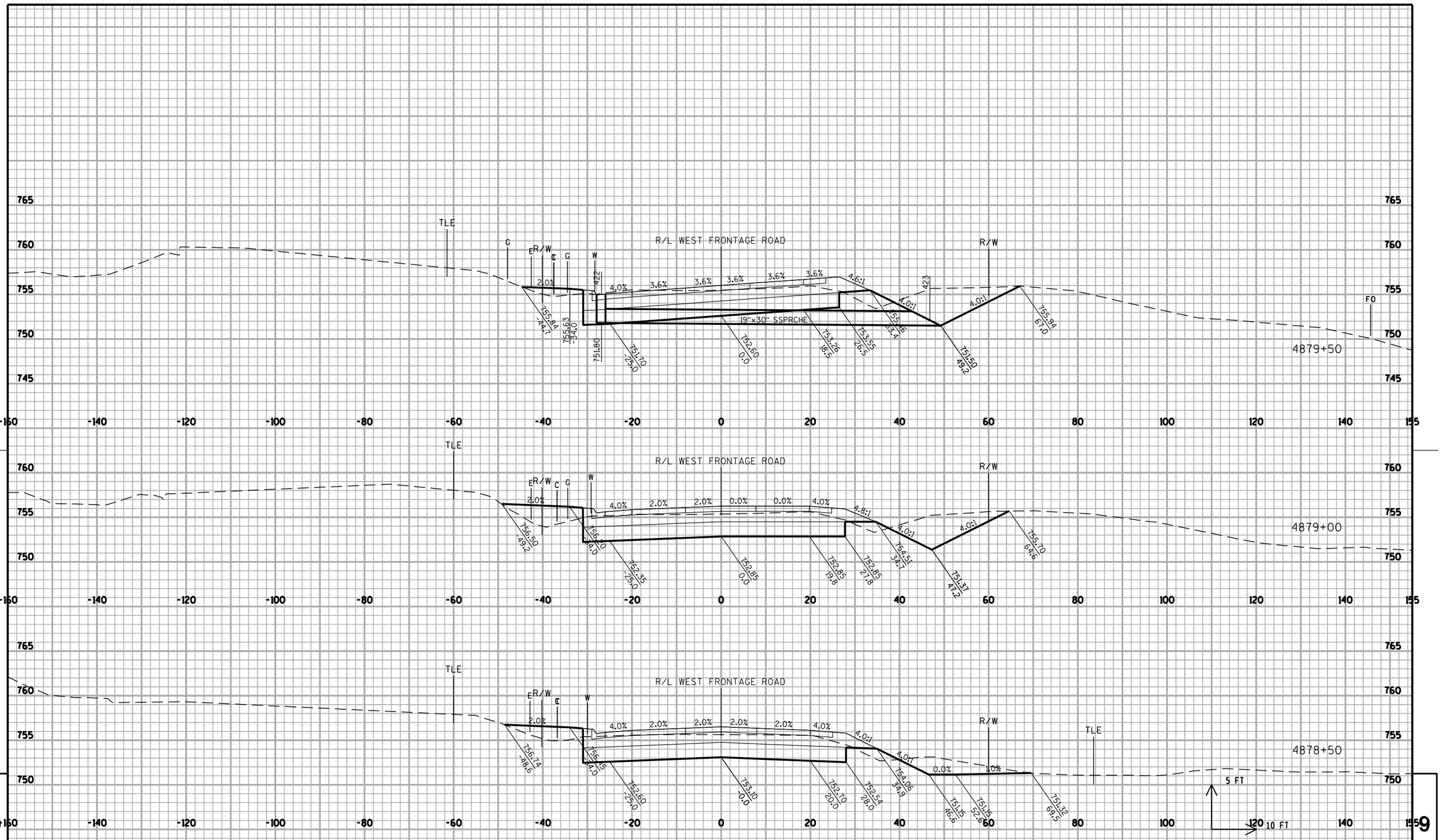
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WISDOT/CADDS SHEET 21



STA 4877+50 TO 4878+25

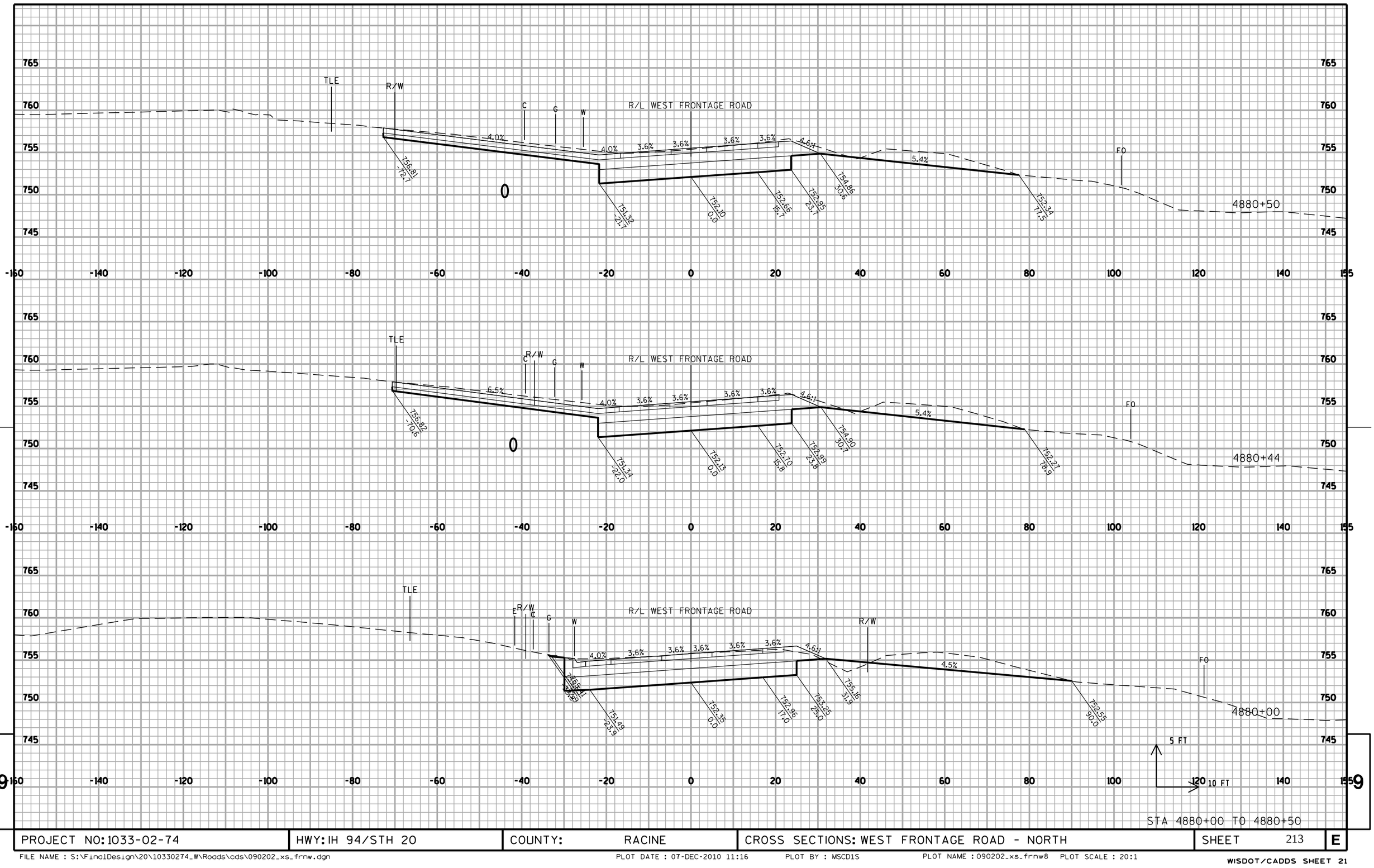
PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD - NORTH	SHEET 211	E



PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD - NORTH	SHEET 212	E

FILE NAME : S:\FinalDesign\20\10330274_W\Roads\cds\090202_xs_frnw.dgn PLOT DATE : 07-DEC-2010 11:16 PLOT BY : MSCD1S PLOT NAME : 090202_xs_frnw7 PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

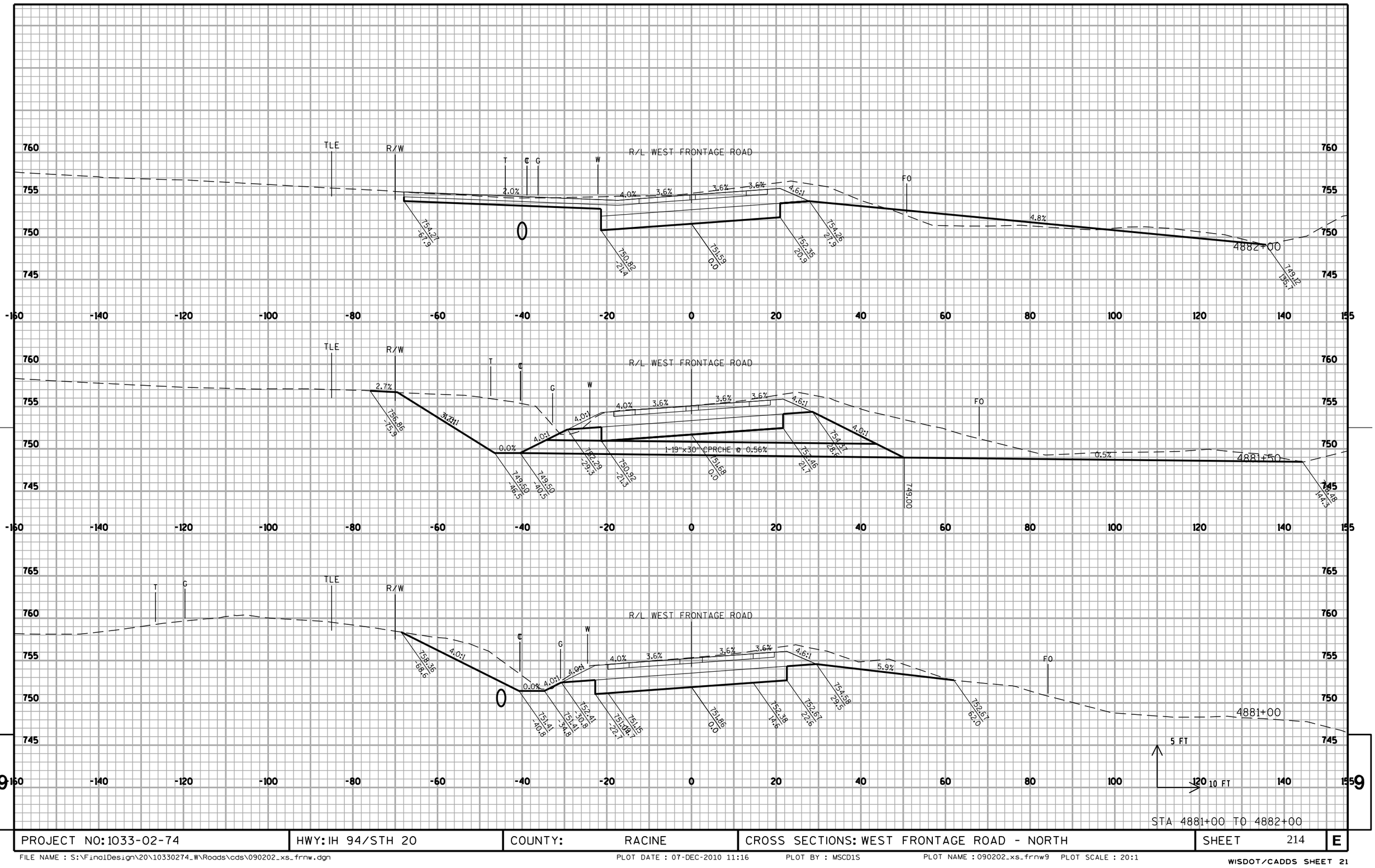


STA 4880+00 TO 4880+50

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD - NORTH	SHEET 213	E

FILE NAME : S:\FinalDesign\20\10330274_W\Roads\cds\090202_xs_frnw.dgn PLOT DATE : 07-DEC-2010 11:16 PLOT BY : MSCD1S PLOT NAME : 090202_xs_frnw8 PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

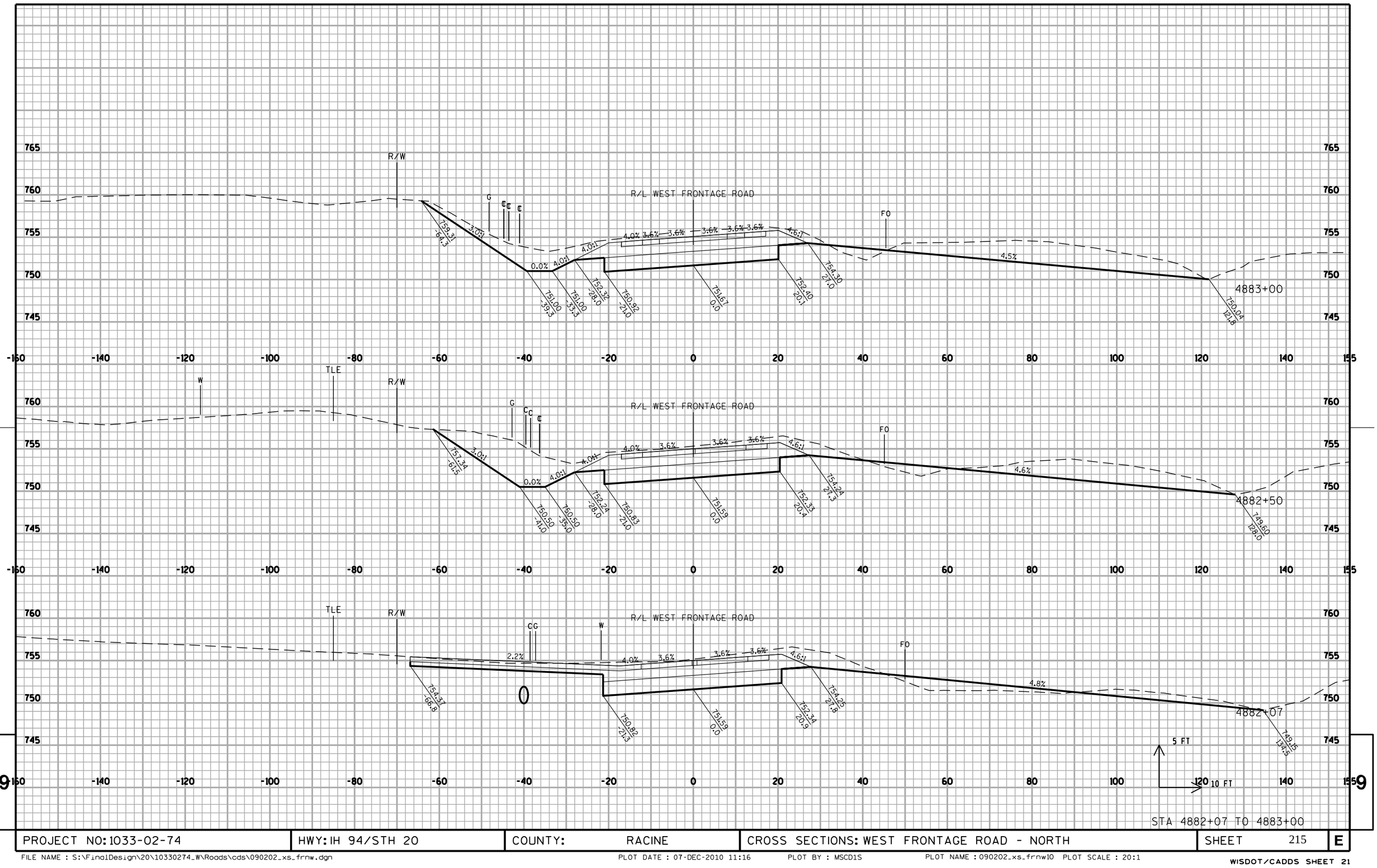


STA 4881+00 TO 4882+00

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD - NORTH	SHEET 214	E

FILE NAME : S:\FinalDesign\20\10330274_W\Roads\cds\090202_xs_frnw.dgn PLOT DATE : 07-DEC-2010 11:16 PLOT BY : MSCD1S PLOT NAME : 090202_xs_frnw9 PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

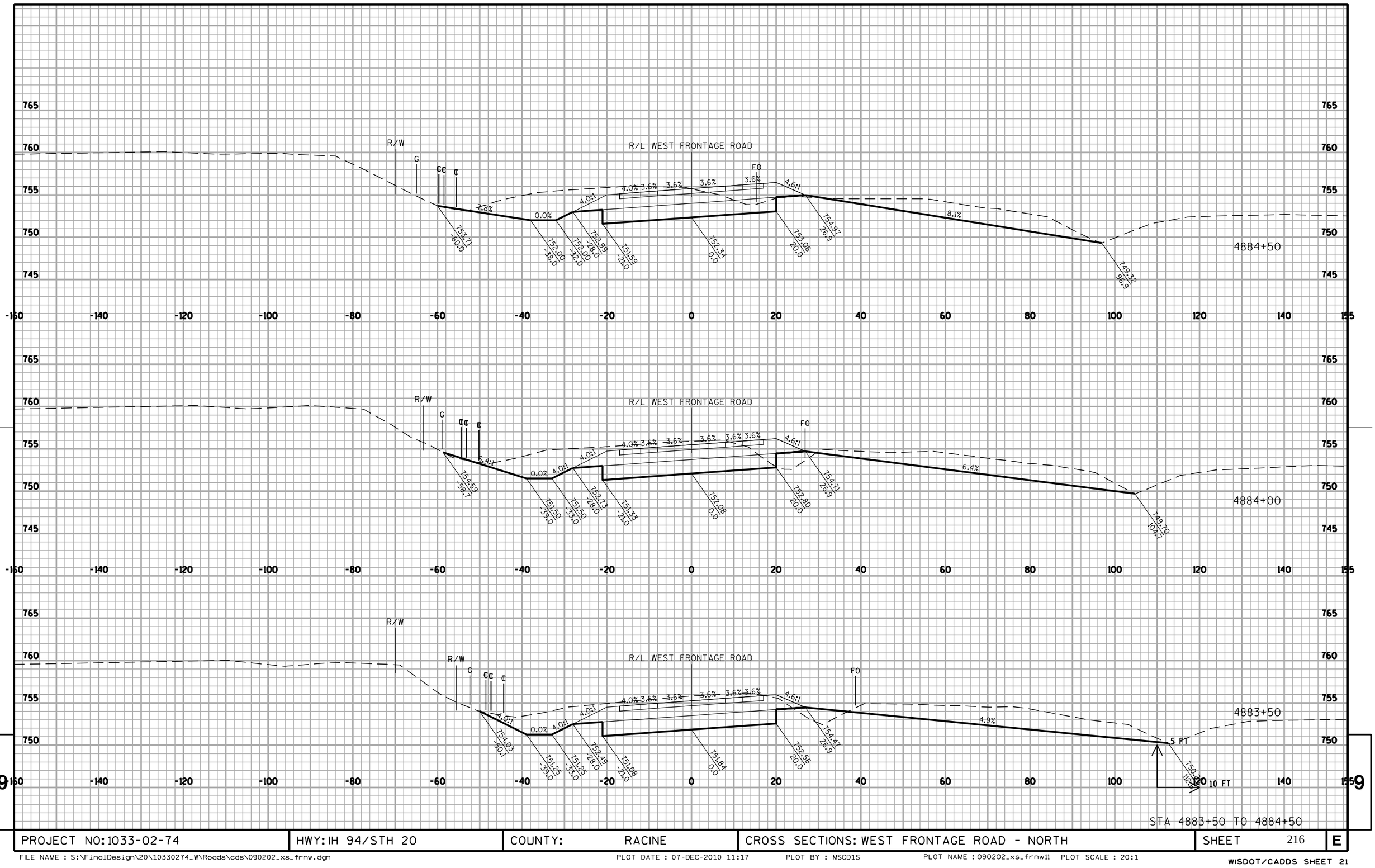


STA 4882+07 TO 4883+00

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD - NORTH	SHEET 215	E

FILE NAME : S:\FinalDesign\20\10330274_W\Roads\cds\090202_xs_frnw.dgn PLOT DATE : 07-DEC-2010 11:16 PLOT BY : MSCD1S PLOT NAME : 090202_xs_frnw10 PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

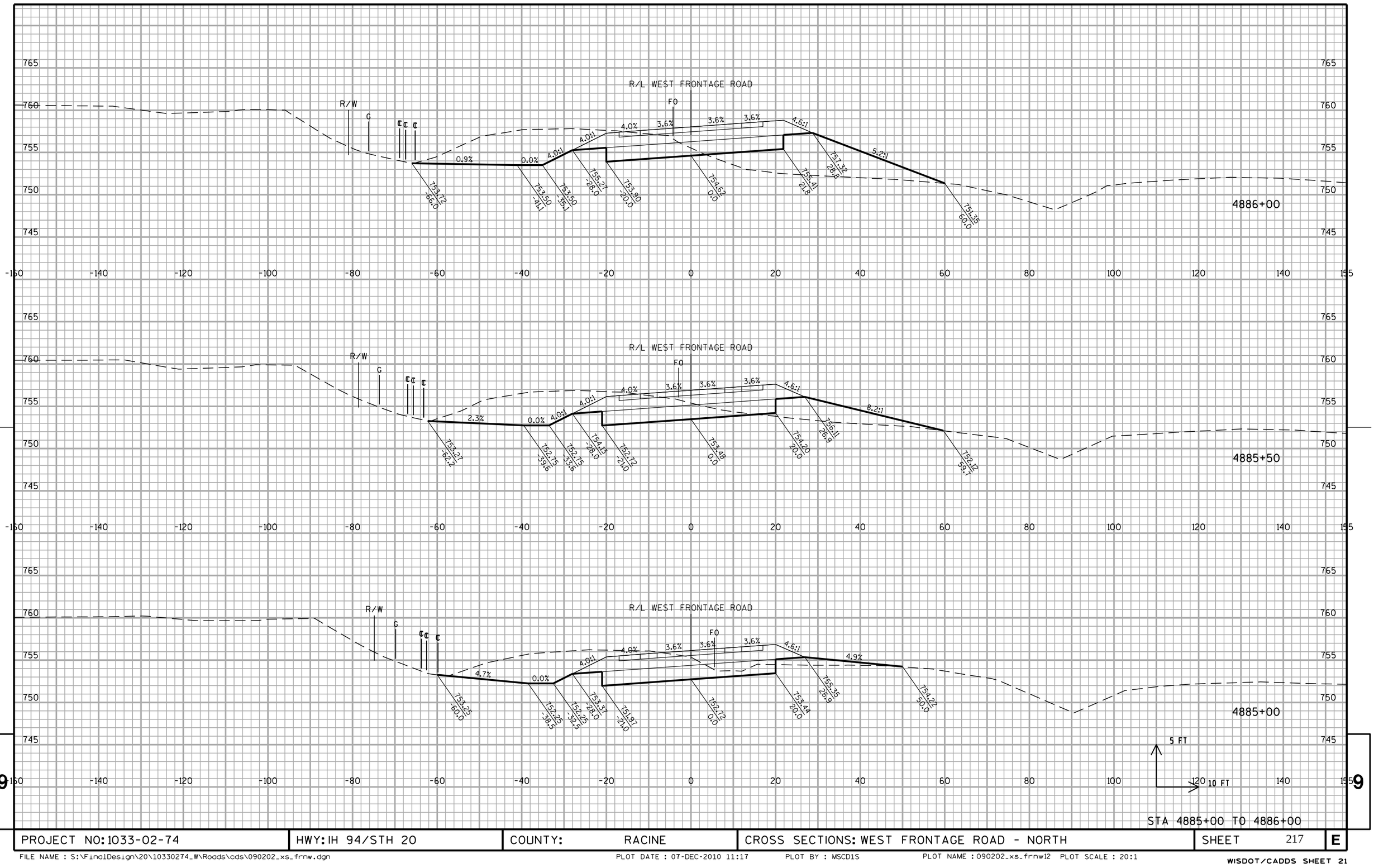


STA 4883+50 TO 4884+50

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD - NORTH	SHEET 216	E

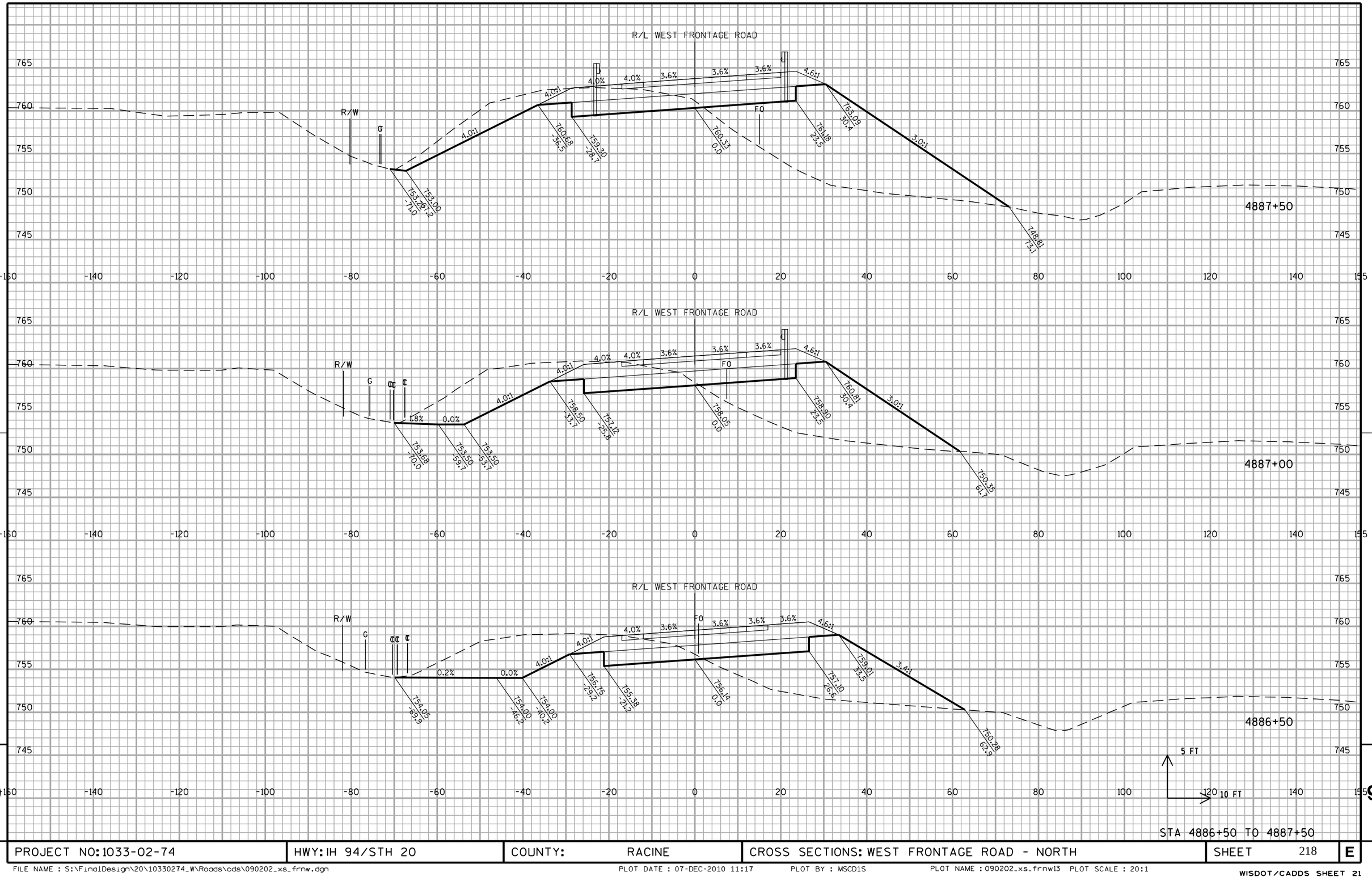
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WISDOT/CADDS SHEET 21



STA 4885+00 TO 4886+00

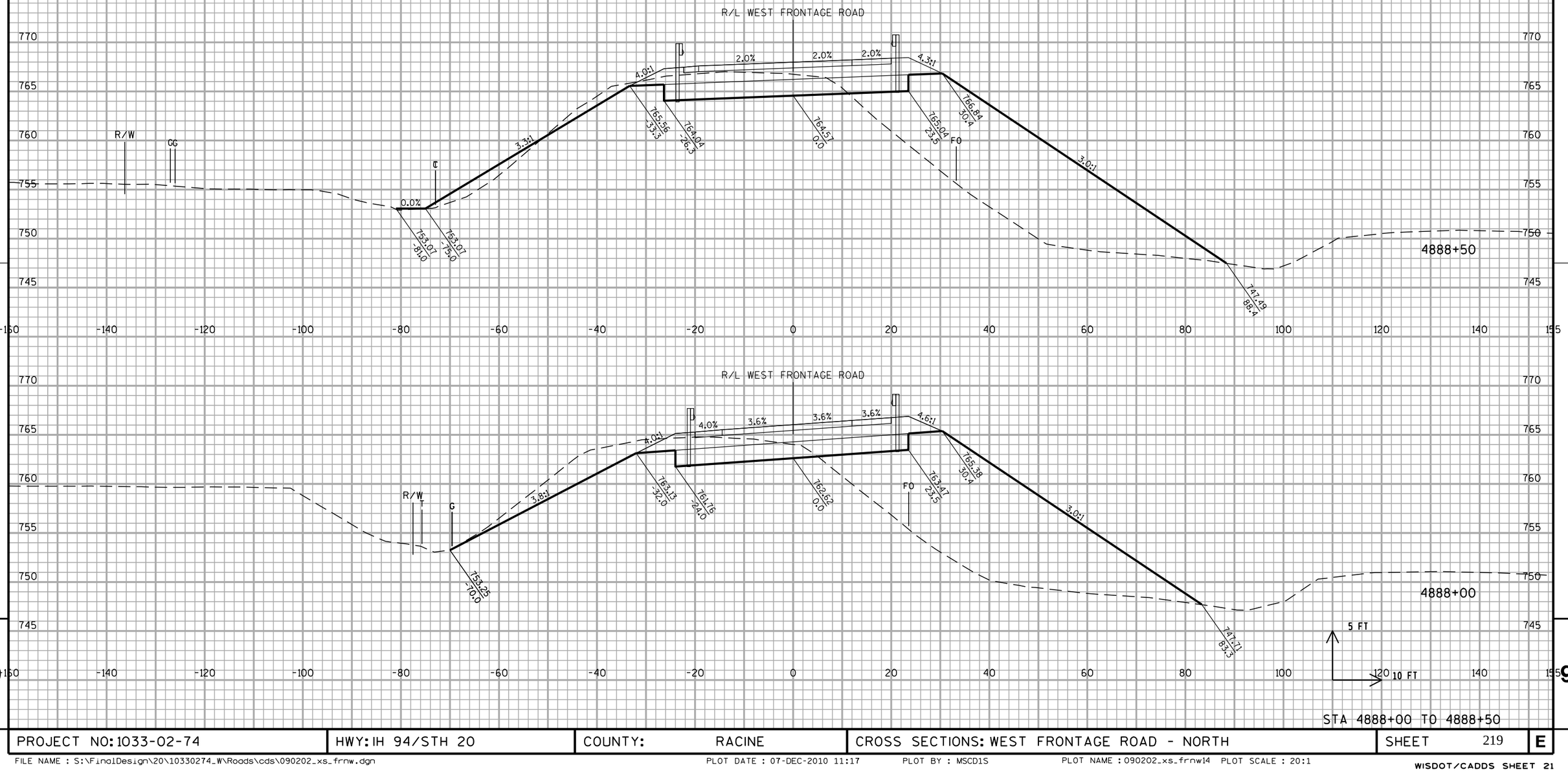
PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD - NORTH	SHEET 217	E



PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD - NORTH	SHEET 218	E

FILE NAME : S:\FinalDesign\20\10330274_W\Roads\cds\090202_xs_frnw.dgn PLOT DATE : 07-DEC-2010 11:17 PLOT BY : MSCD1S PLOT NAME : 090202_xs_frnw13 PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

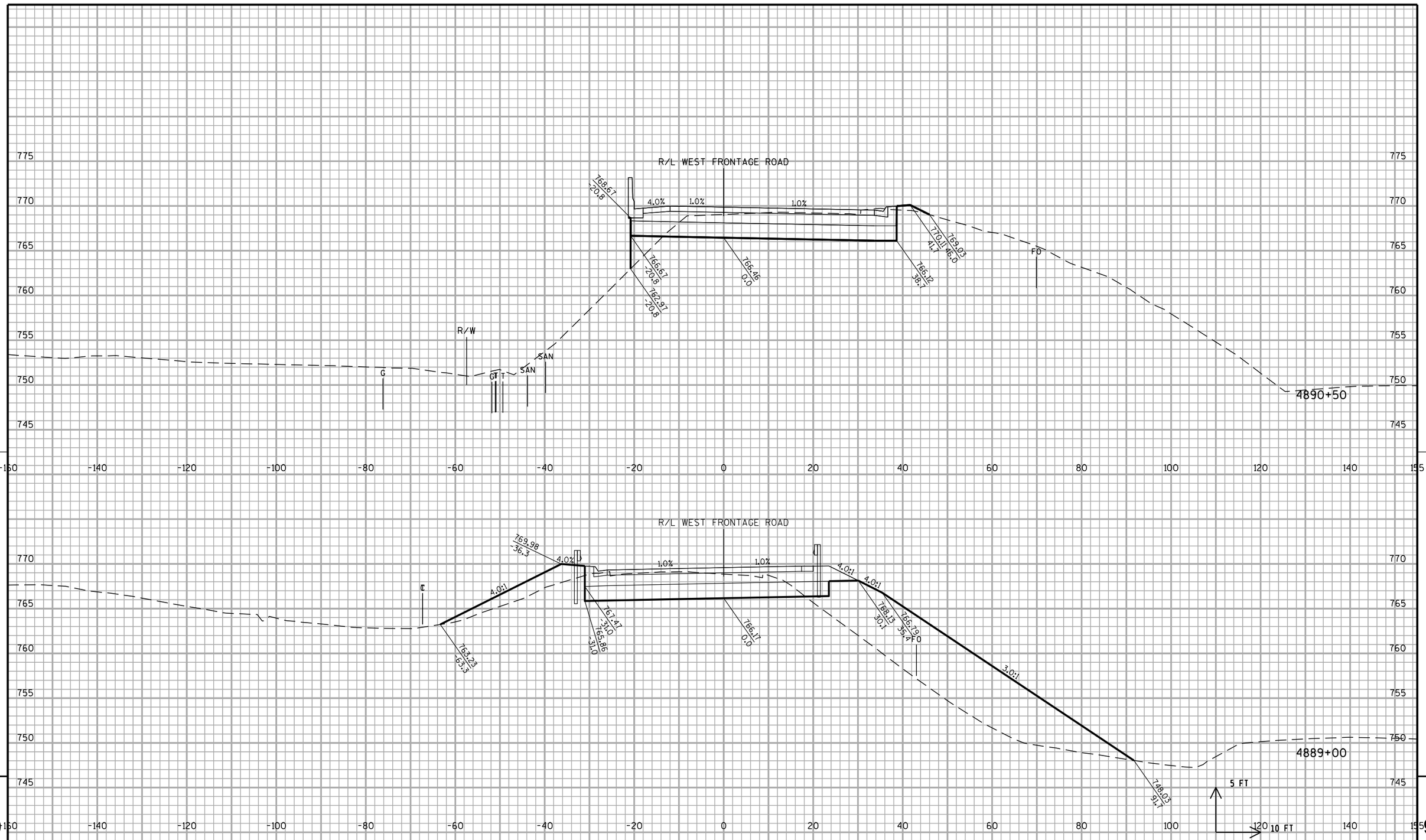


STA 4888+00 TO 4888+50

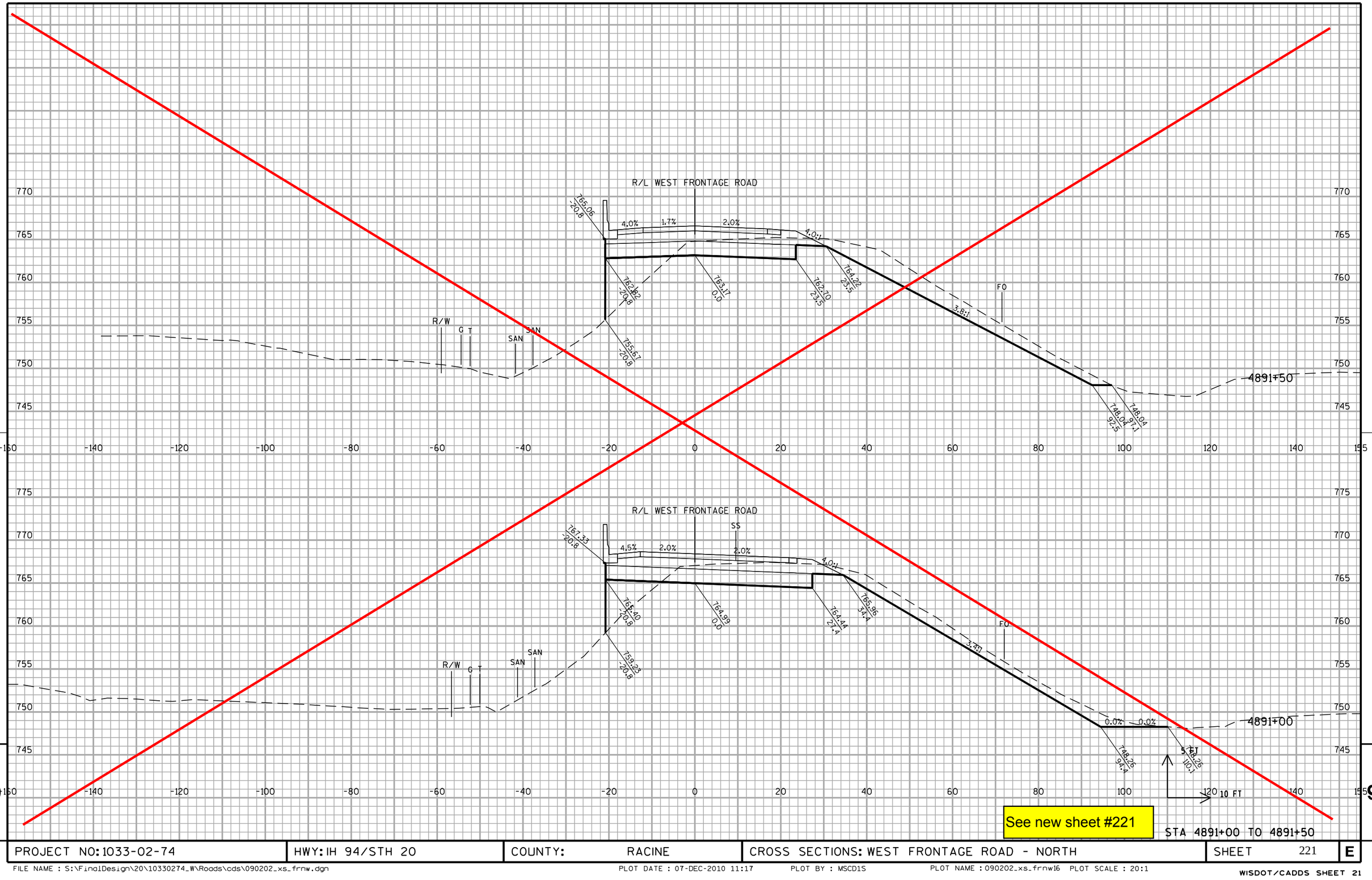
PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD - NORTH	SHEET 219	E

FILE NAME : S:\FinalDesign\20\10330274_W\Roads\cds\090202_xs_frnw.dgn PLOT DATE : 07-DEC-2010 11:17 PLOT BY : MSCD1S PLOT NAME : 090202_xs_frnw14 PLOT SCALE : 20:1

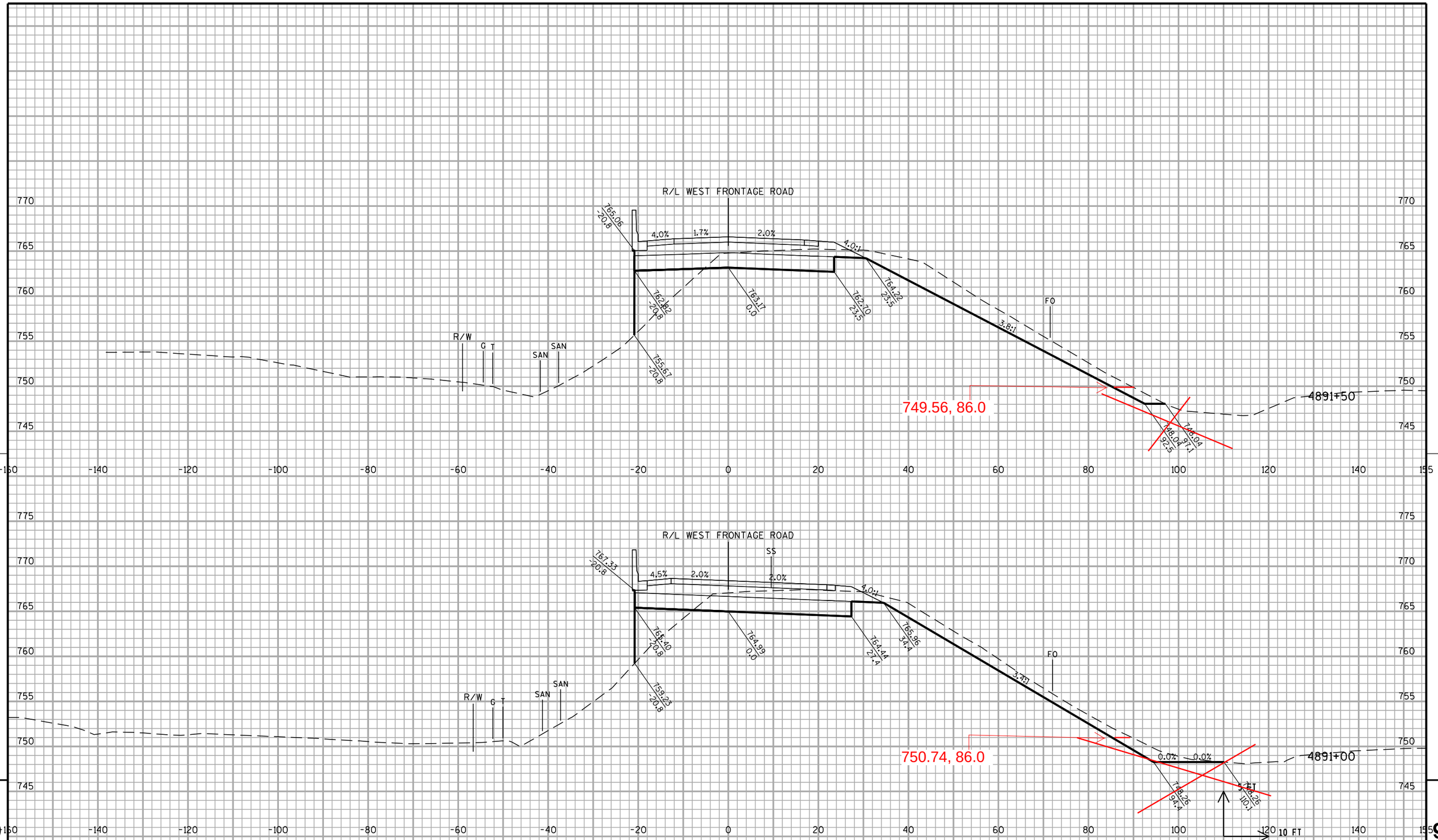
WISDOT/CADDS SHEET 21



PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD - NORTH	SHEET 220	E



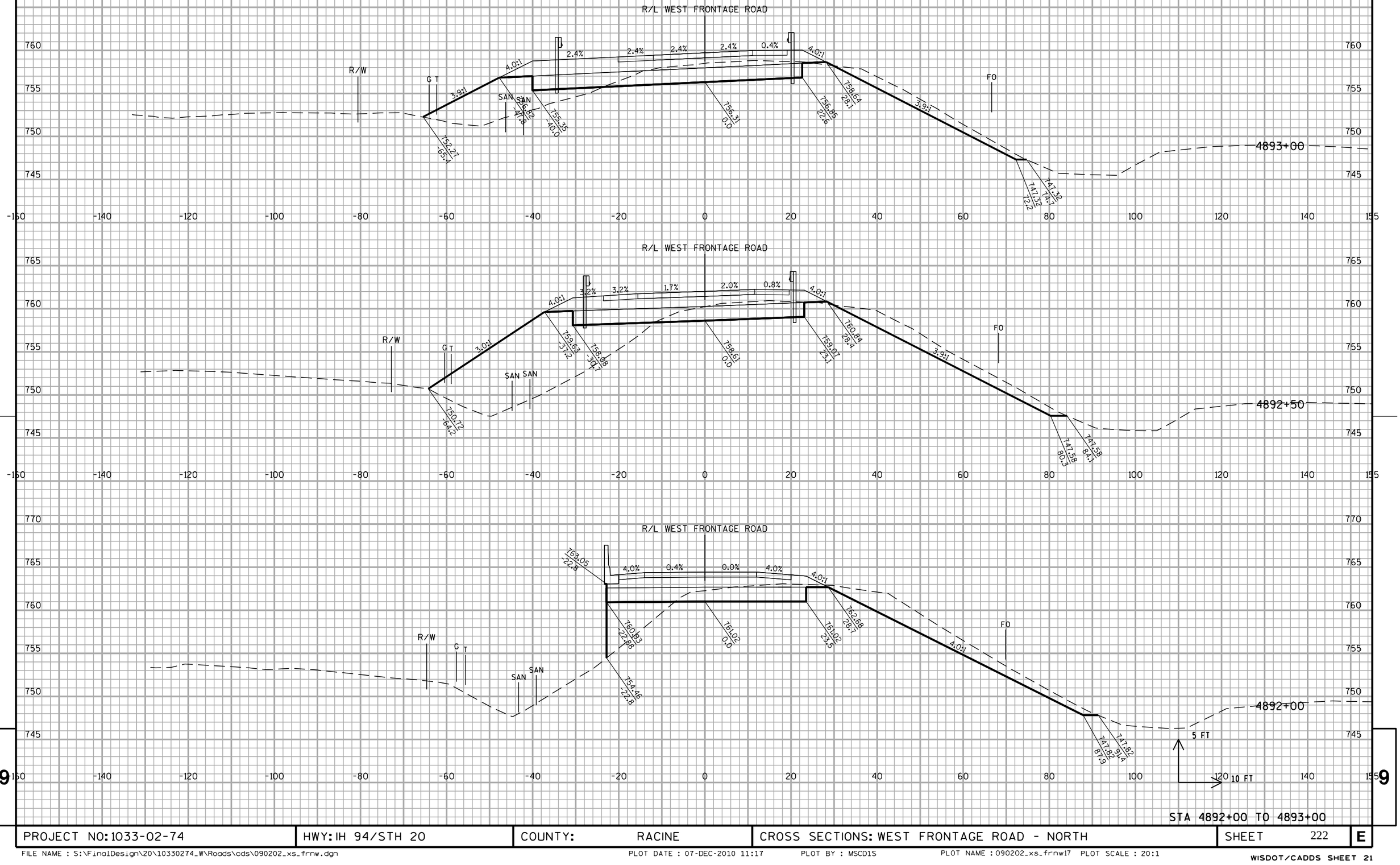
PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD - NORTH	SHEET 221	E



PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD - NORTH	SHEET 221	E

FILE NAME : S:\FinalDesign\20\10330274_W\Roads\cds\090202_xs_frnw.dgn PLOT DATE : 07-DEC-2010 11:17 PLOT BY : MSCD1S PLOT NAME : 090202_xs_frnw16 PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



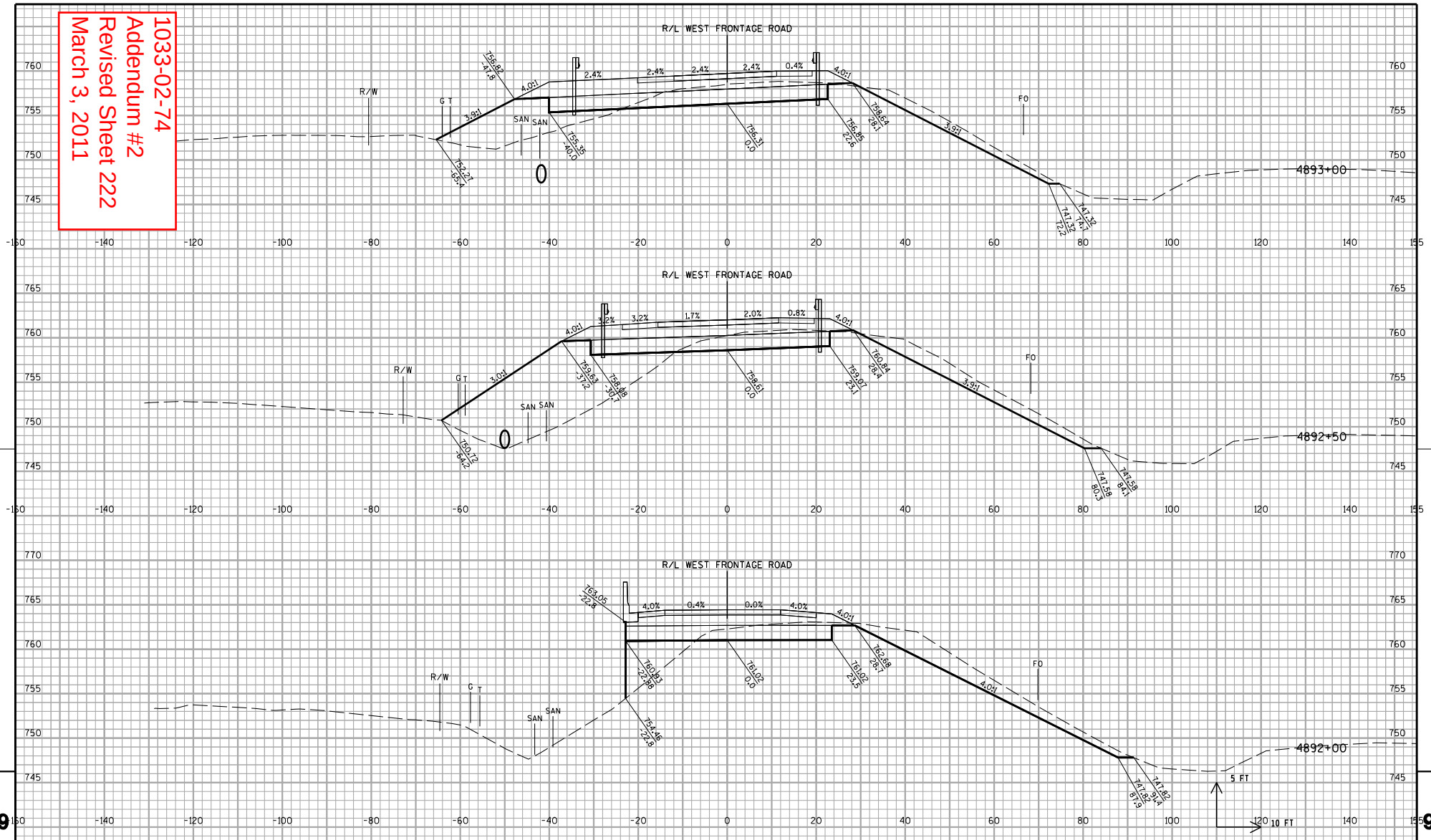
STA 4892+00 TO 4893+00

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD - NORTH	SHEET 222	E

FILE NAME : S:\FinalDesign\20\10330274_W\Roads\cds\090202_xs_frnw.dgn PLOT DATE : 07-DEC-2010 11:17 PLOT BY : MSCD1S PLOT NAME : 090202_xs_frnw17 PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

1033-02-74
Addendum #2
Revised Sheet 222
March 3, 2011



STA 4892+00 TO 489

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD - NORTH	SHEET 222	E

FILE NAME : C:\w3mtp\FinalDesign\20\10330274_W\Roads\cds\090202_xs_frnw.dgn PLOT DATE : 1/17/2011 PLOT BY : mtp94nscREMOTE PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

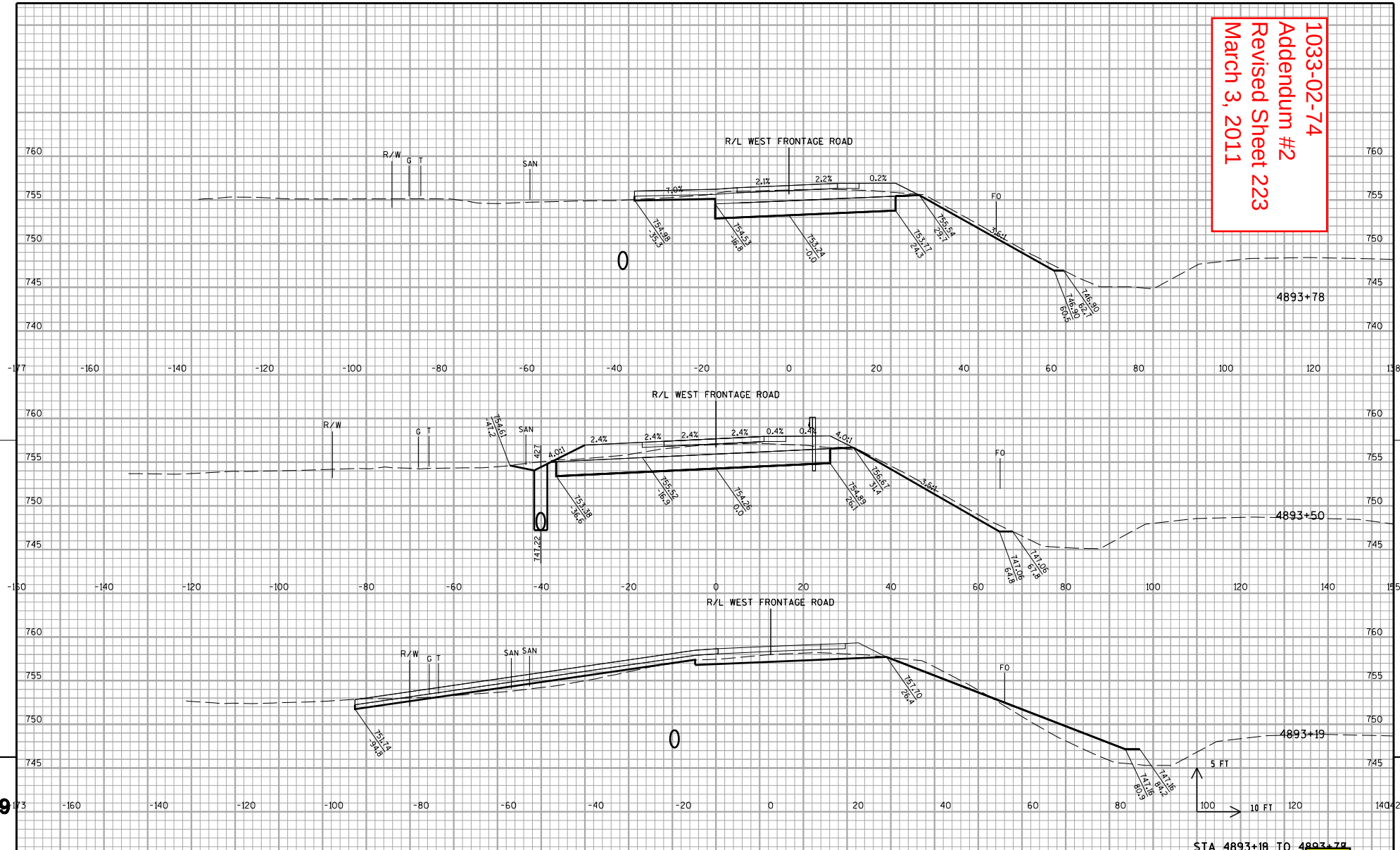
STA 4893+18 TO 4893+78

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD - NORTH	SHEET 223	E

FILE NAME : S:\FinalDesign\20\10330274_W\Roads\cds\090202_xs_frnw.dgn PLOT DATE : 07-DEC-2010 11:17 PLOT BY : MSCD1S PLOT NAME : 090202_xs_frnw18 PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

1033-02-74
Addendum #2
Revised Sheet 223
March 3, 2011

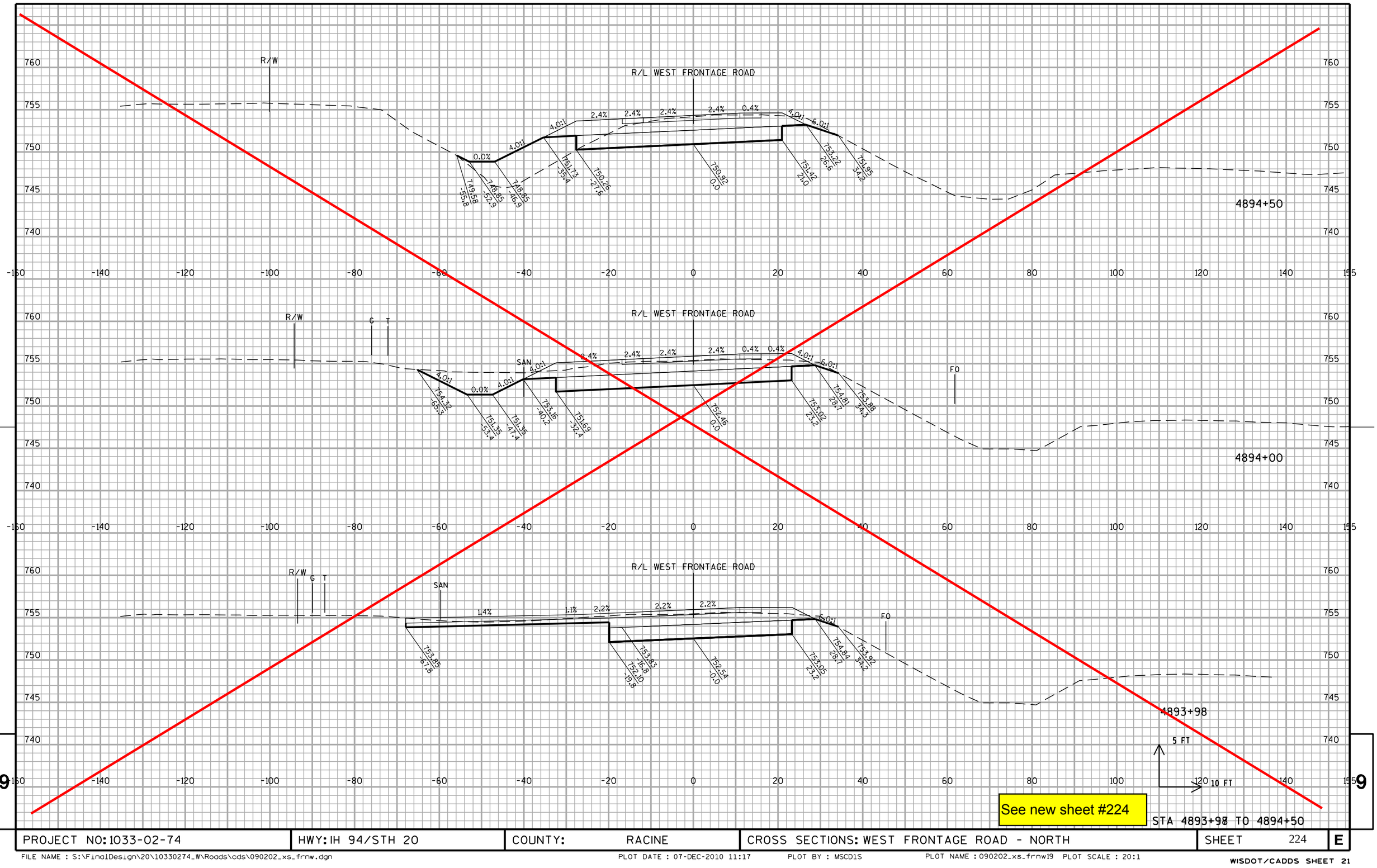


STA 4893+18 TO 4893+78

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD - NORTH	SHEET 223	E

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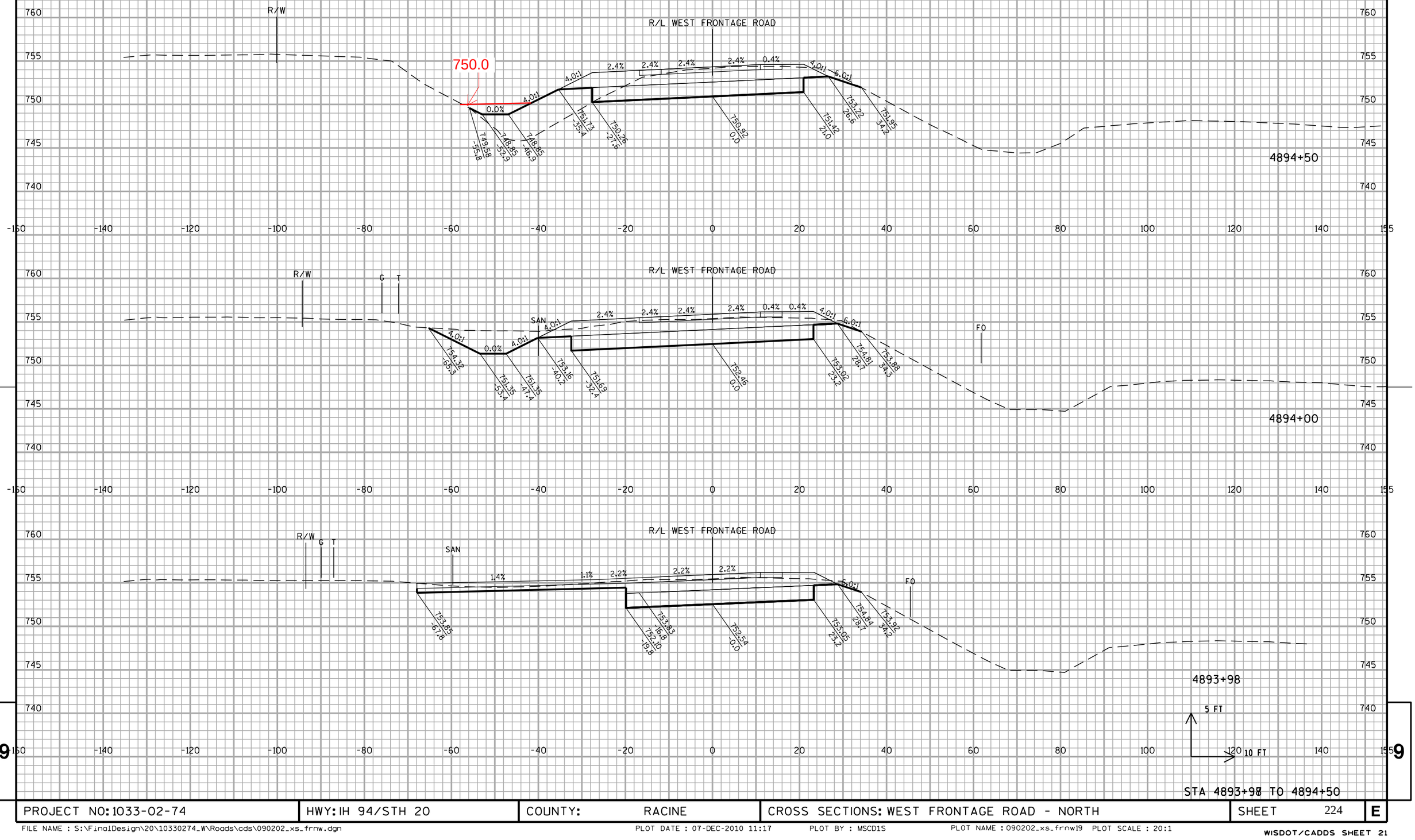
WISDOT/CADDS SHEET 21



See new sheet #224

STA 4893+98 TO 4894+50

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD - NORTH	SHEET 224	E



9

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD - NORTH	SHEET 224	E

STA 4893+98 TO 4894+50

FILE NAME : S:\FinalDesign\20\10330274_W\Roads\cds\090202_xs_frnw.dgn PLOT DATE : 07-DEC-2010 11:17 PLOT BY : MSCD1S PLOT NAME : 090202_xs_frnw19 PLOT SCALE : 20:1

R/W

R/L WEST FRONTAGE ROAD

4896+00

4.0:1 3.0:1 2.4% 2.4% 2.4% 0.4% 4.0:1 6.0:1

748.80 -27.4 748.03 -29.6 747.32 -19.6 747.79 0.0 748.25 19.0 750.05 24.8 749.18 30.0 745.40 -38.1

R/W

R/L WEST FRONTAGE ROAD

4895+50

4.0:1 3.0:1 2.4% 2.4% 2.4% 0.4% 4.0:1 6.0:1

749.59 -27.4 749.02 -29.7 749.11 -19.7 748.58 0.0 749.04 19.0 750.84 24.8 749.27 34.2 745.43 -40.4

R/W

R/L WEST FRONTAGE ROAD

4895+00

4.0:1 4.0:1 0.0% 4.0:1 4.0:1 2.4% 2.4% 2.4% 2.4% 0.4% 4.0:1 3.5:1

752.03 -51.5 748.10 -45.8 748.10 -39.8 750.57 -29.9 749.09 -22.2 749.63 0.0 750.09 19.4 751.89 25.1 746.29 46.5 746.29 49.7

5 FT

10 FT

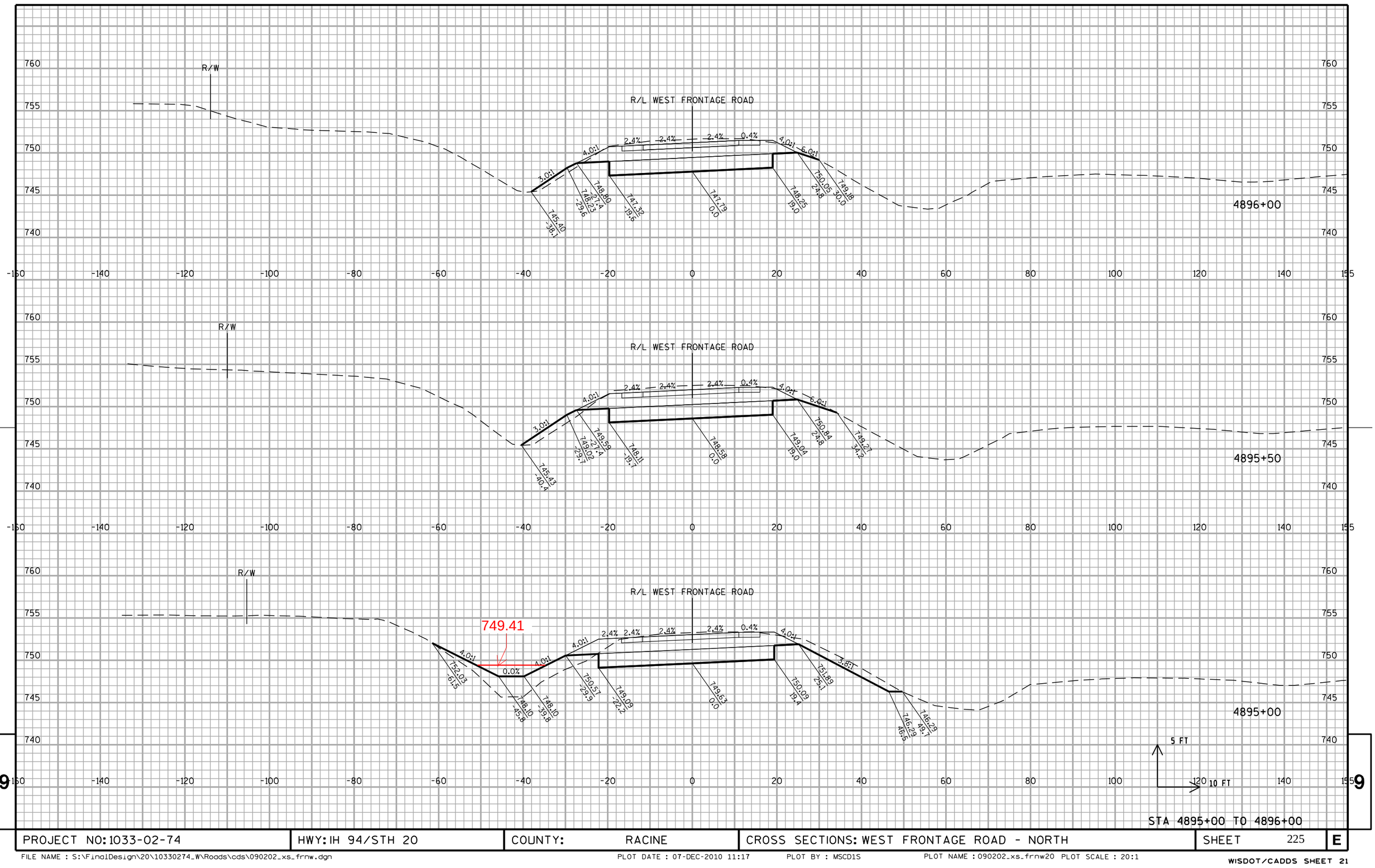
See new sheet #225

STA 4895+00 TO 4896+00

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD - NORTH	SHEET 225	E

FILE NAME : S:\FinalDesign\20\10330274_W\Roads\cds\090202_xs_frnw.dgn PLOT DATE : 07-DEC-2010 11:17 PLOT BY : MSCD1S PLOT NAME : 090202_xs_frnw20 PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

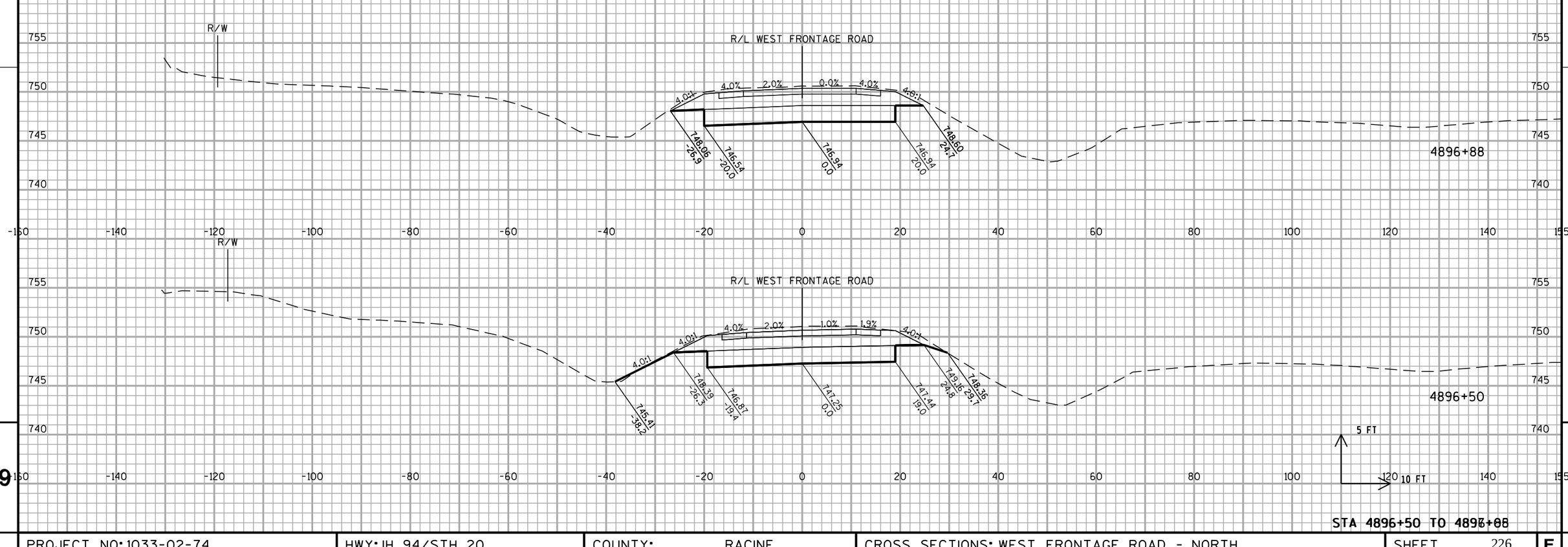


STA 4895+00 TO 4896+00

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD - NORTH	SHEET 225	E

FILE NAME : S:\FinalDesign\20\10330274_W\Roads\cds\090202_xs_frnw.dgn PLOT DATE : 07-DEC-2010 11:17 PLOT BY : MSCD1S PLOT NAME : 090202_xs_frnw20 PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

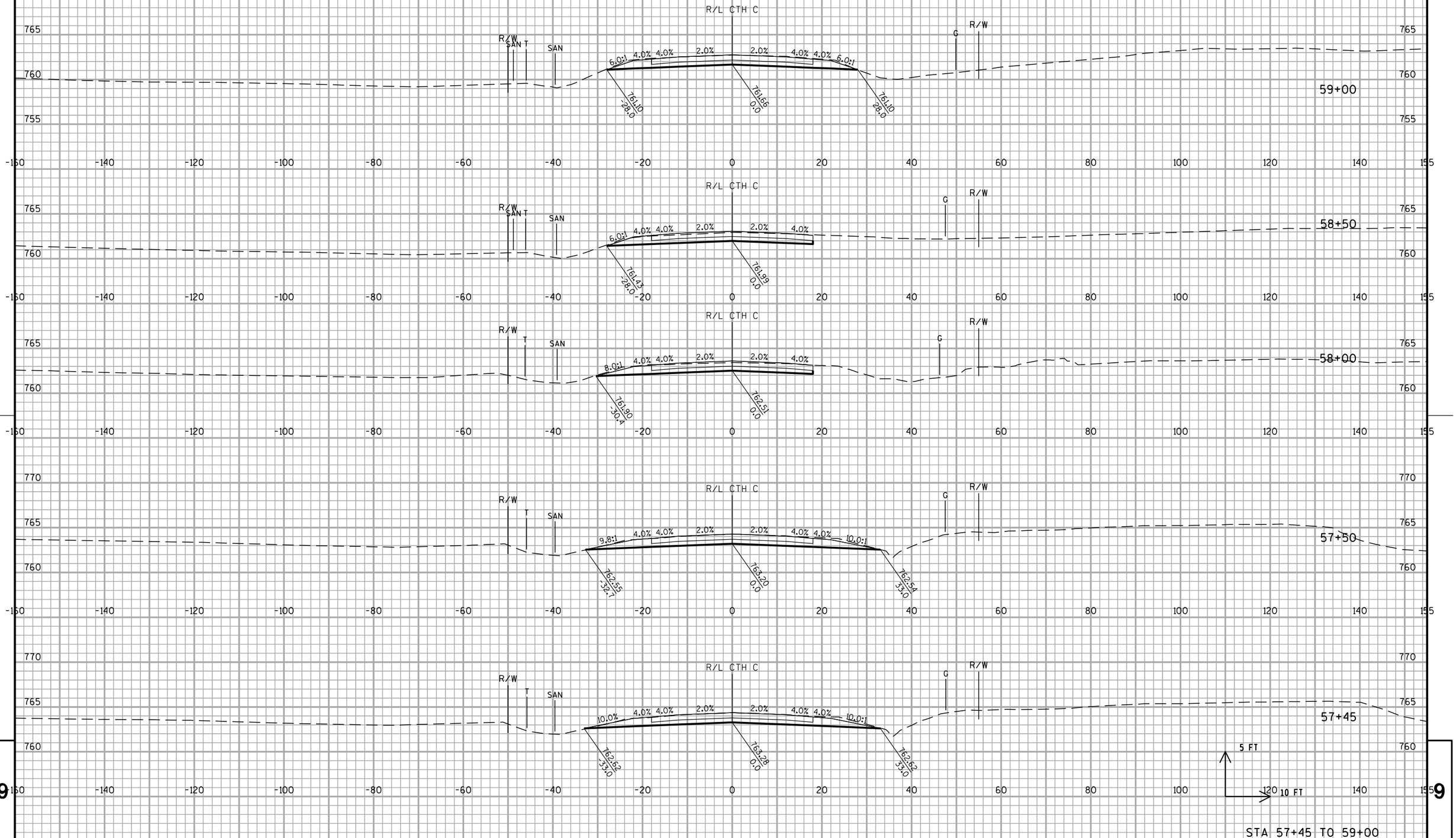


STA 4896+50 TO 4897+88

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD - NORTH	SHEET 226	E

FILE NAME : S:\FinalDesign\20\10330274_W\Roads\cds\090202_xs_frnw.dgn PLOT DATE : 07-DEC-2010 11:18 PLOT BY : MSCD1S PLOT NAME : 090202_xs_frnw21 PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

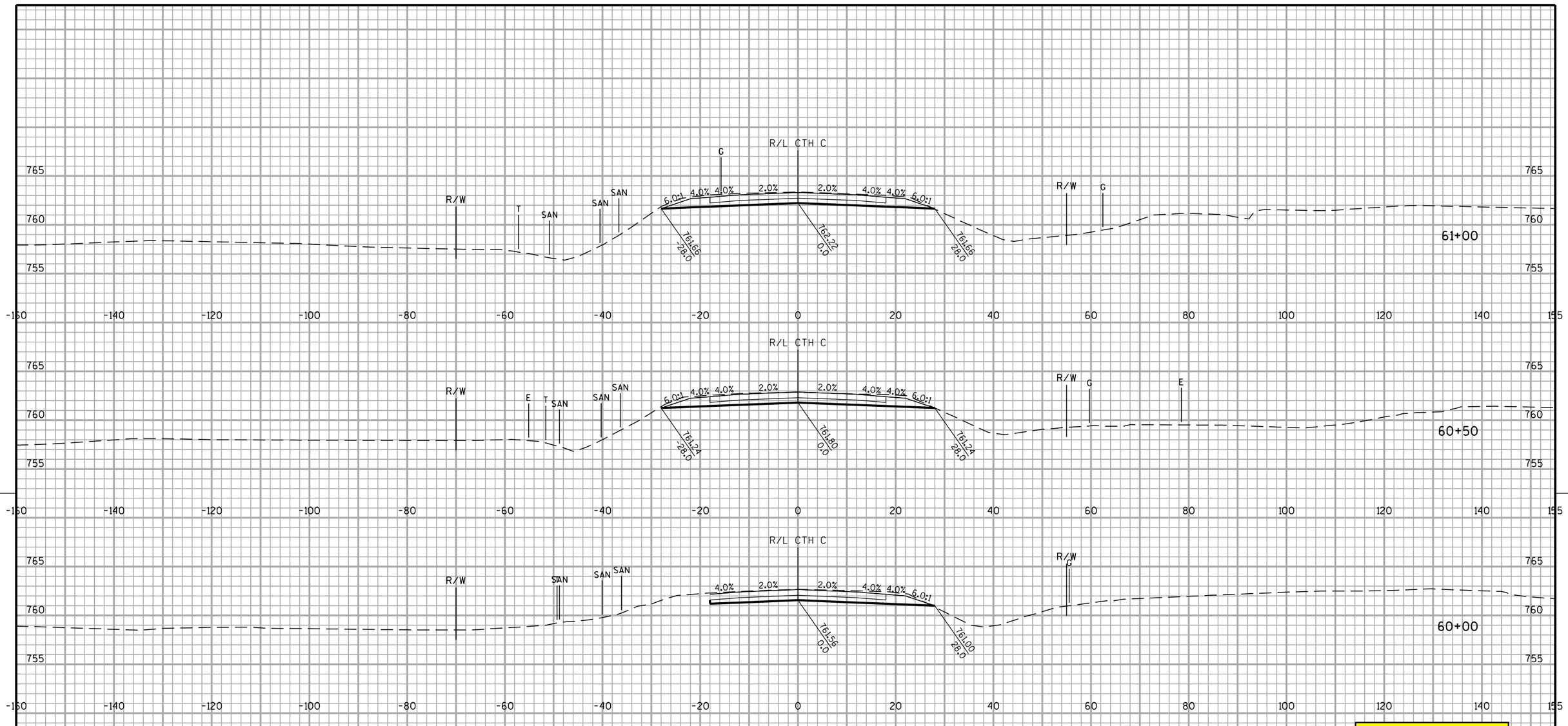


9 9

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: CTH C	SHEET 227	E

FILE NAME : S:\FinalDesign\20\10330274_W\Roads\cds\090203_xs_cthc.dgn PLOT DATE : 07-DEC-2010 11:15 PLOT BY : MSCD1S PLOT NAME : 090203_xs_cthc PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

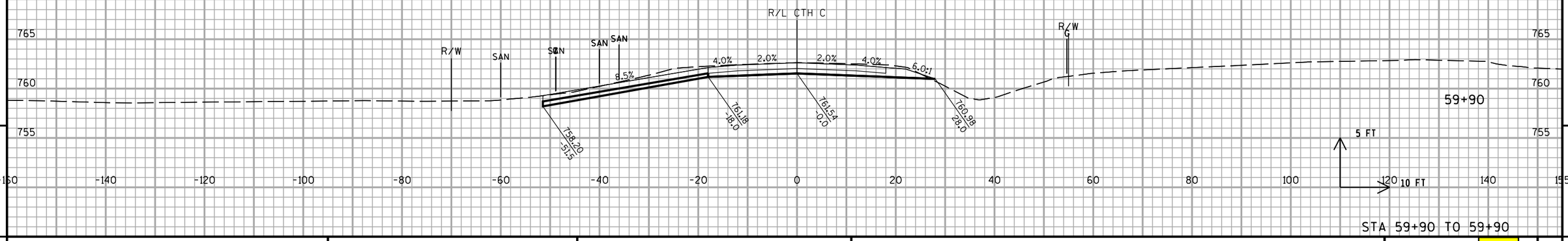


STA 59+50 TO 61+00

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: CTH C	SHEET 228	E

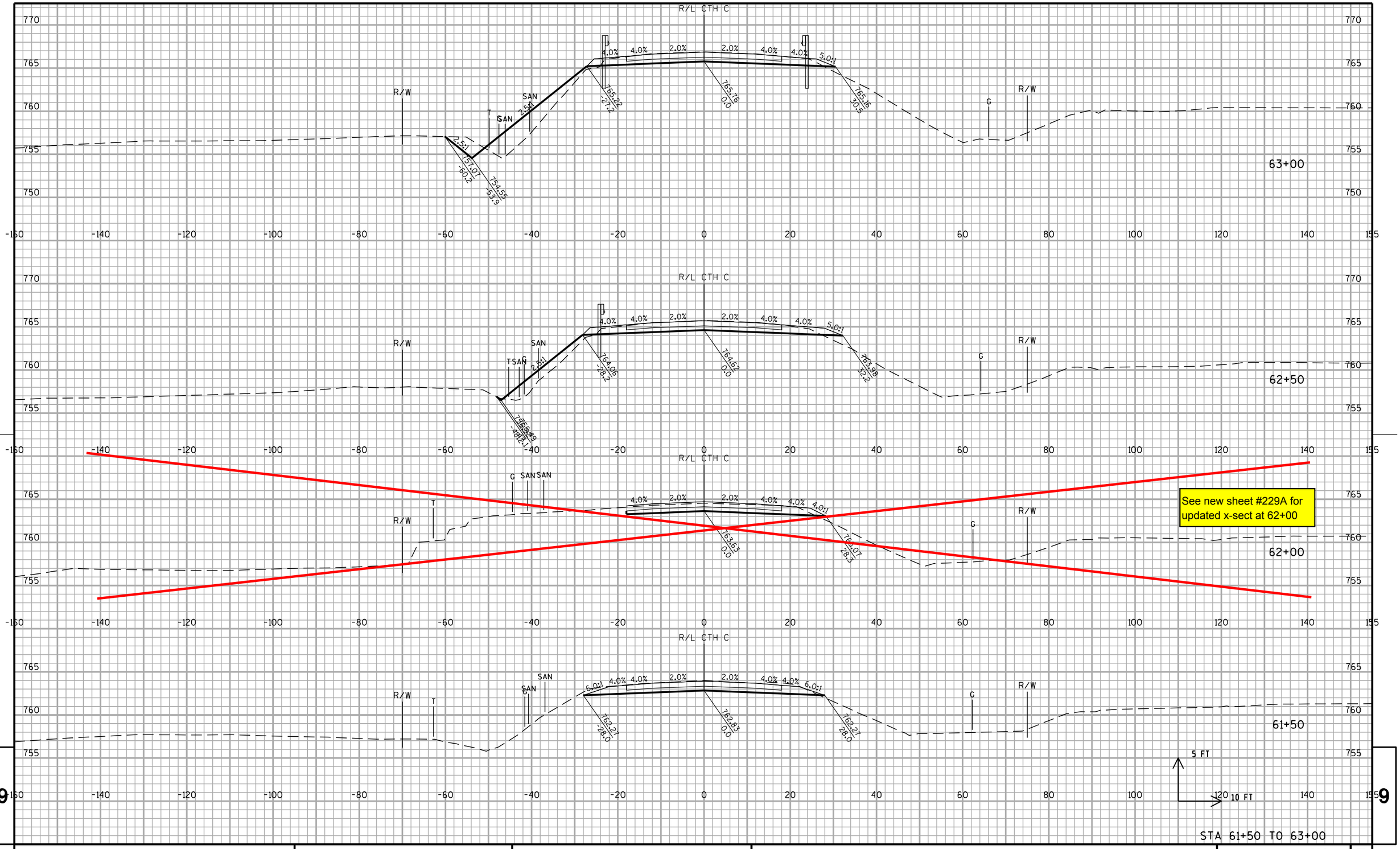
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WISDOT/CADDS SHEET 21



STA 59+90 TO 59+90

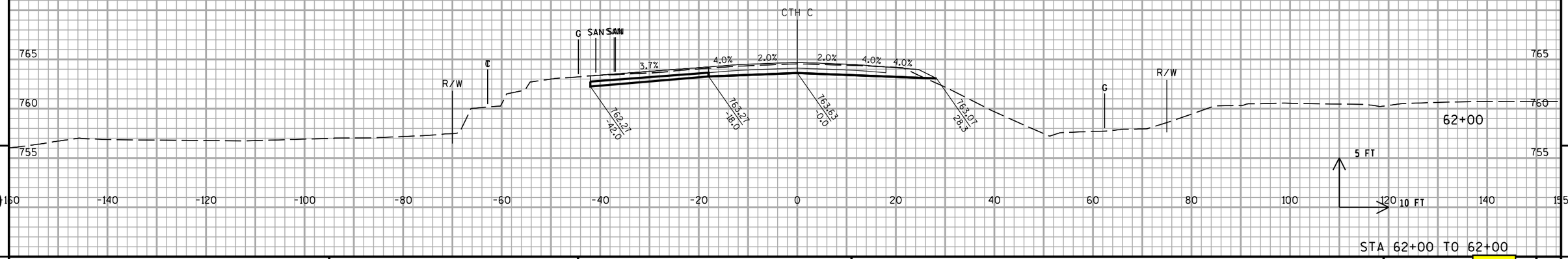
PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: CTH C	SHEET 228A	E



PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: CTH C	SHEET 229	E

FILE NAME : S:\FinalDesign\20\10330274_W\Roads\cds\090203_xs_cthc.dgn PLOT DATE : 07-DEC-2010 11:16 PLOT BY : MSCD1S PLOT NAME : 090203_xs_cthc2 PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

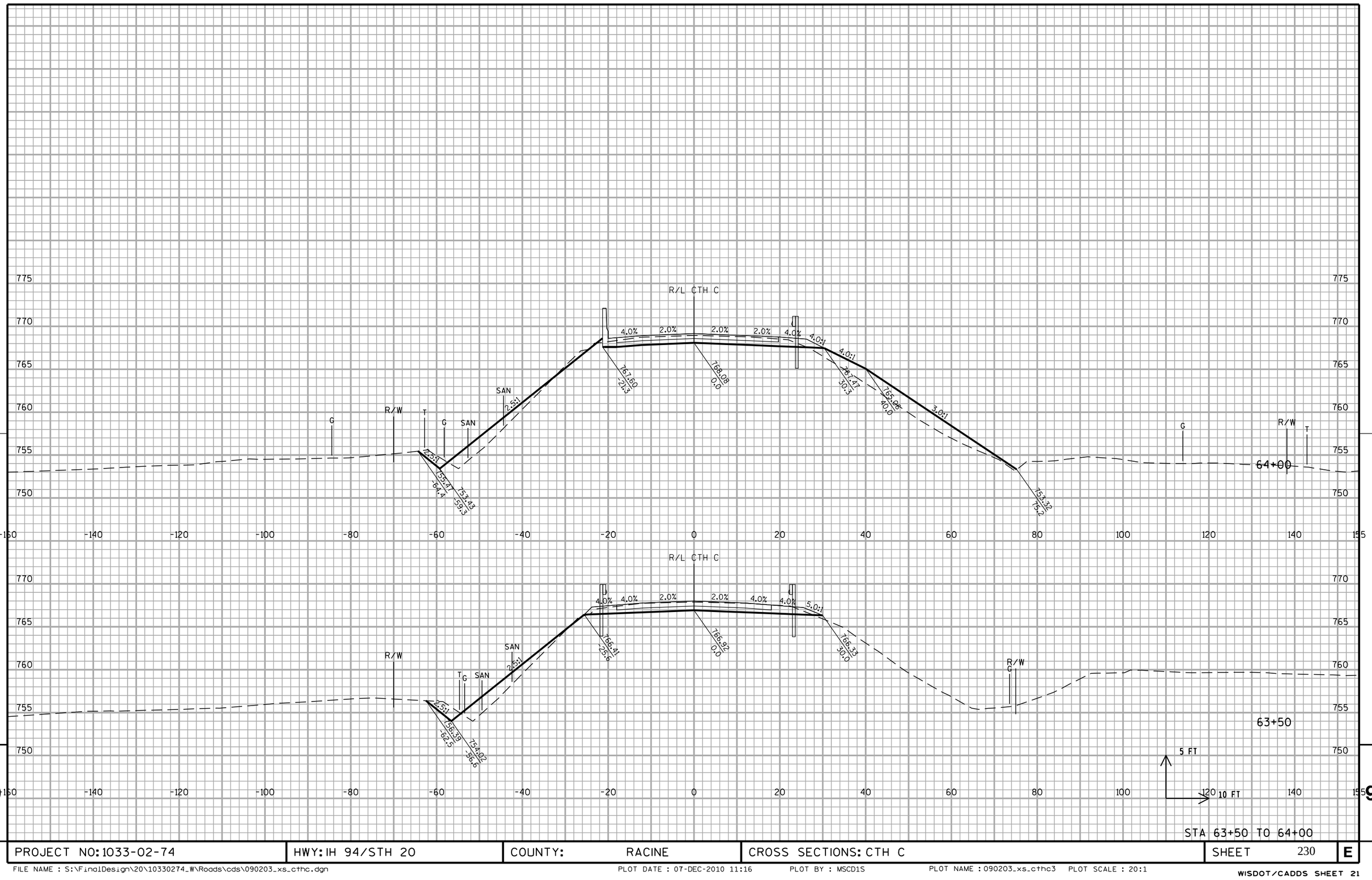


STA 62+00 TO 62+00

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: CTH C	SHEET 229A	E

FILE NAME : C:\w3mtp\FinalDesign\20\To Be Filed\090205_xs_frsw2.dgn PLOT DATE : 5/9/2011 PLOT BY : mtp94nscREMOTE PLOT NAME : $FILE$ PLOT SCALE : 1:20

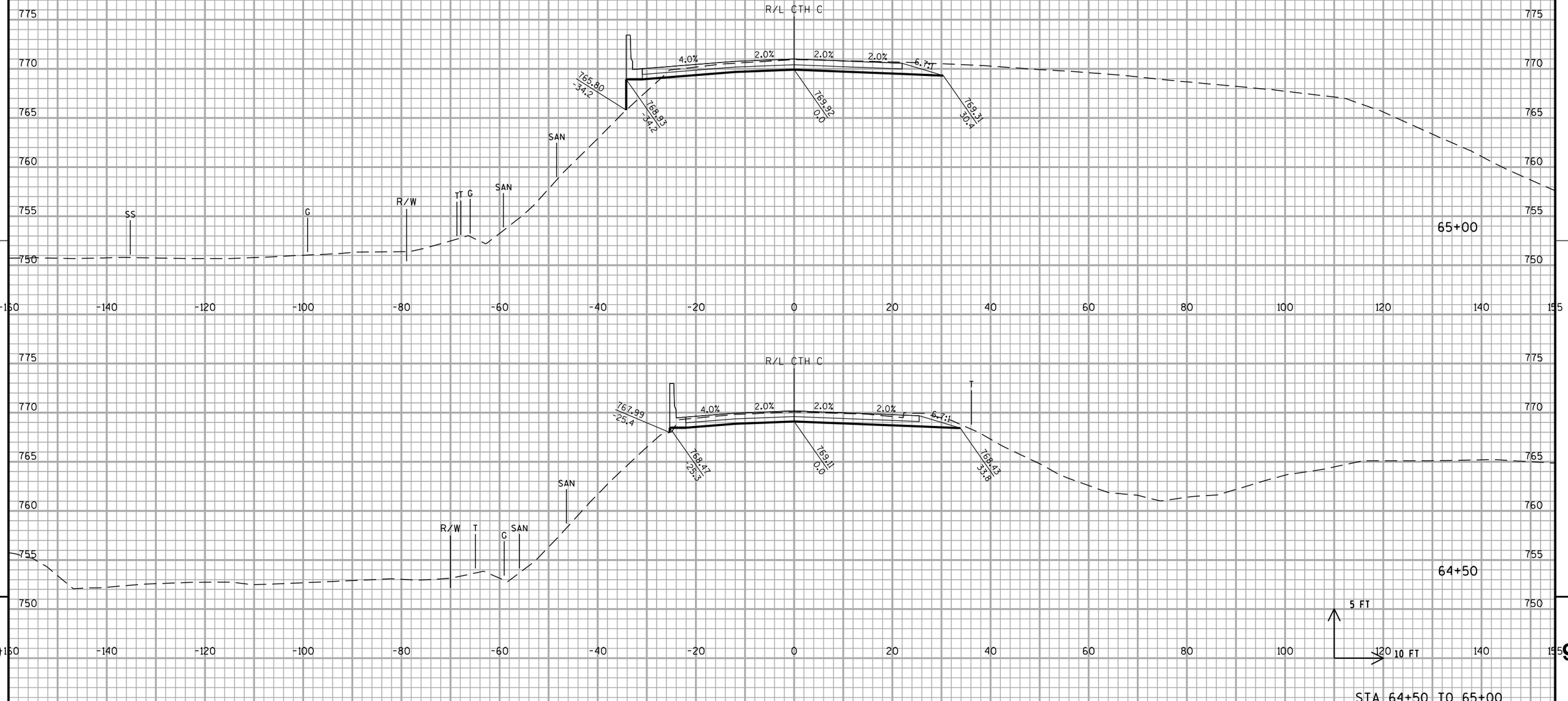
WISDOT/CADDS SHEET 21



PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: CTH C	SHEET 230	E

FILE NAME : S:\FinalDesign\20\10330274_W\Roads\cds\090203_xs_cthc.dgn PLOT DATE : 07-DEC-2010 11:16 PLOT BY : MSCD1S PLOT NAME : 090203_xs_cthc3 PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

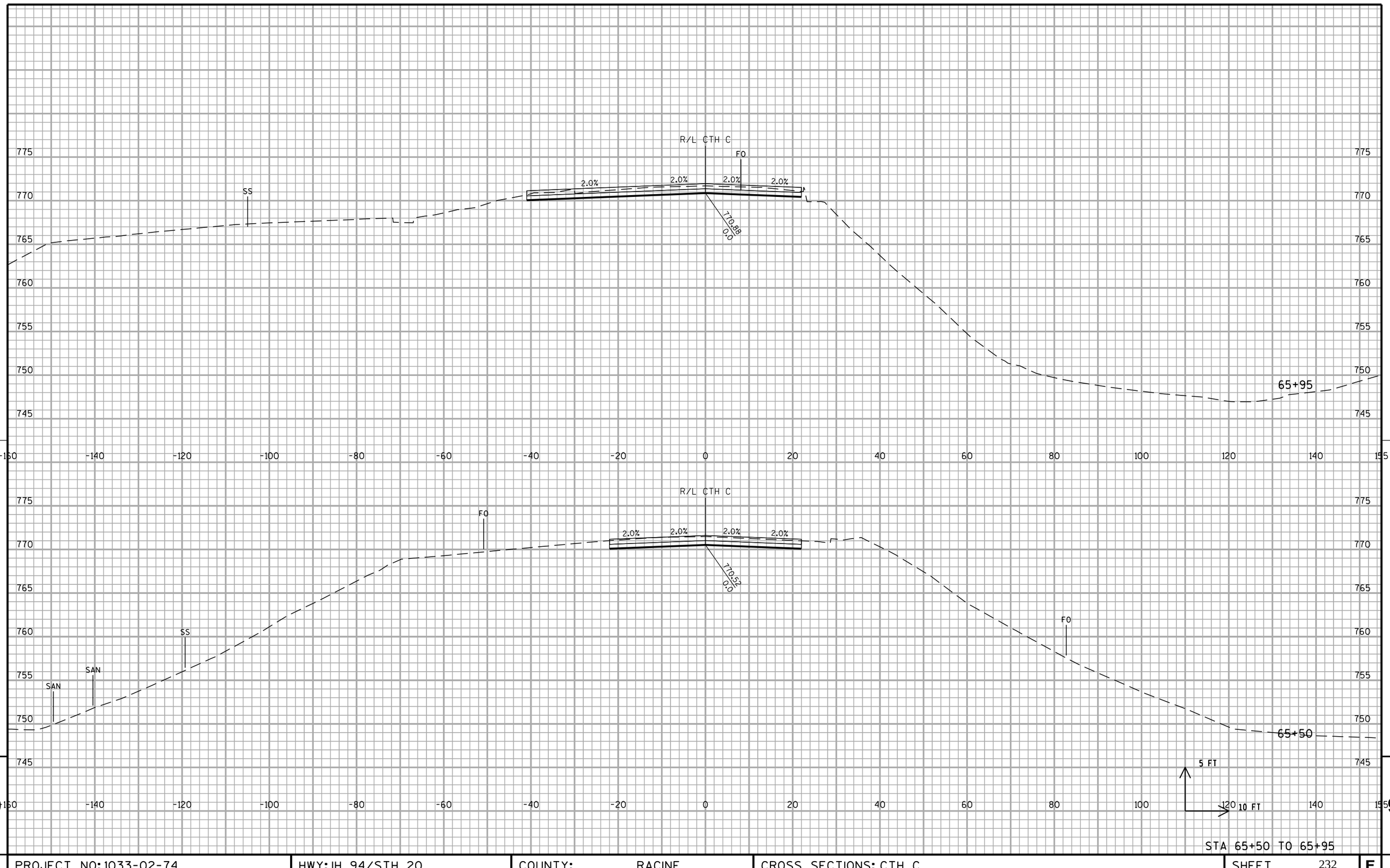


STA 64+50 TO 65+00

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: CTH C	SHEET 231	E

FILE NAME : S:\FinalDesign\20\10330274_W\Roads\cds\090203_xs_cthc.dgn PLOT DATE : 07-DEC-2010 11:16 PLOT BY : MSCD1S PLOT NAME : 090203_xs_cthc4 PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

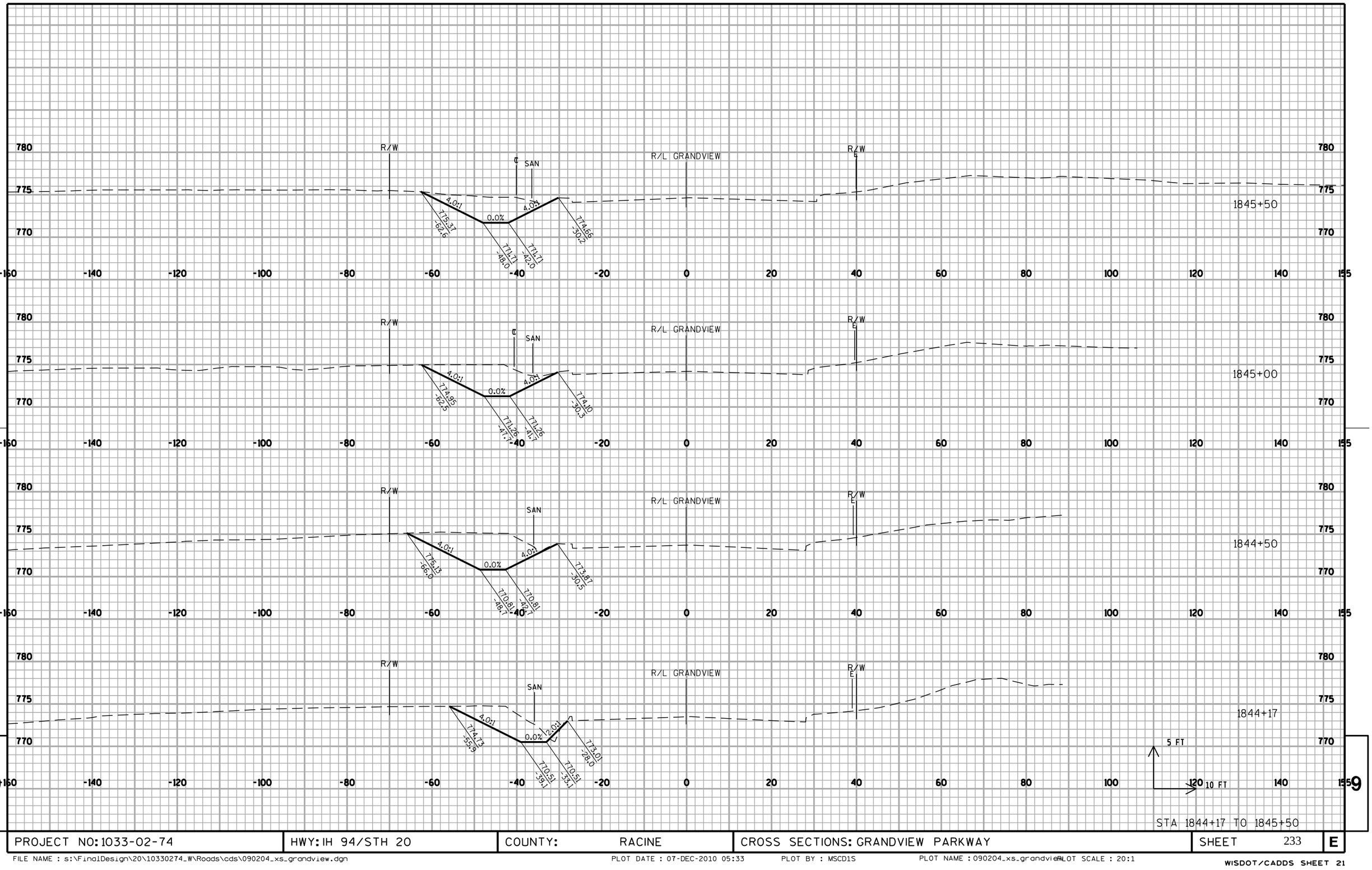


STA 65+50 TO 65+95

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: CTH C	SHEET 232	E

FILE NAME : S:\FinalDesign\20\10330274_W\Roads\cds\090203_xs_cthc.dgn PLOT DATE : 07-DEC-2010 11:16 PLOT BY : MSCD1S PLOT NAME : 090203_xs_cthc5 PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

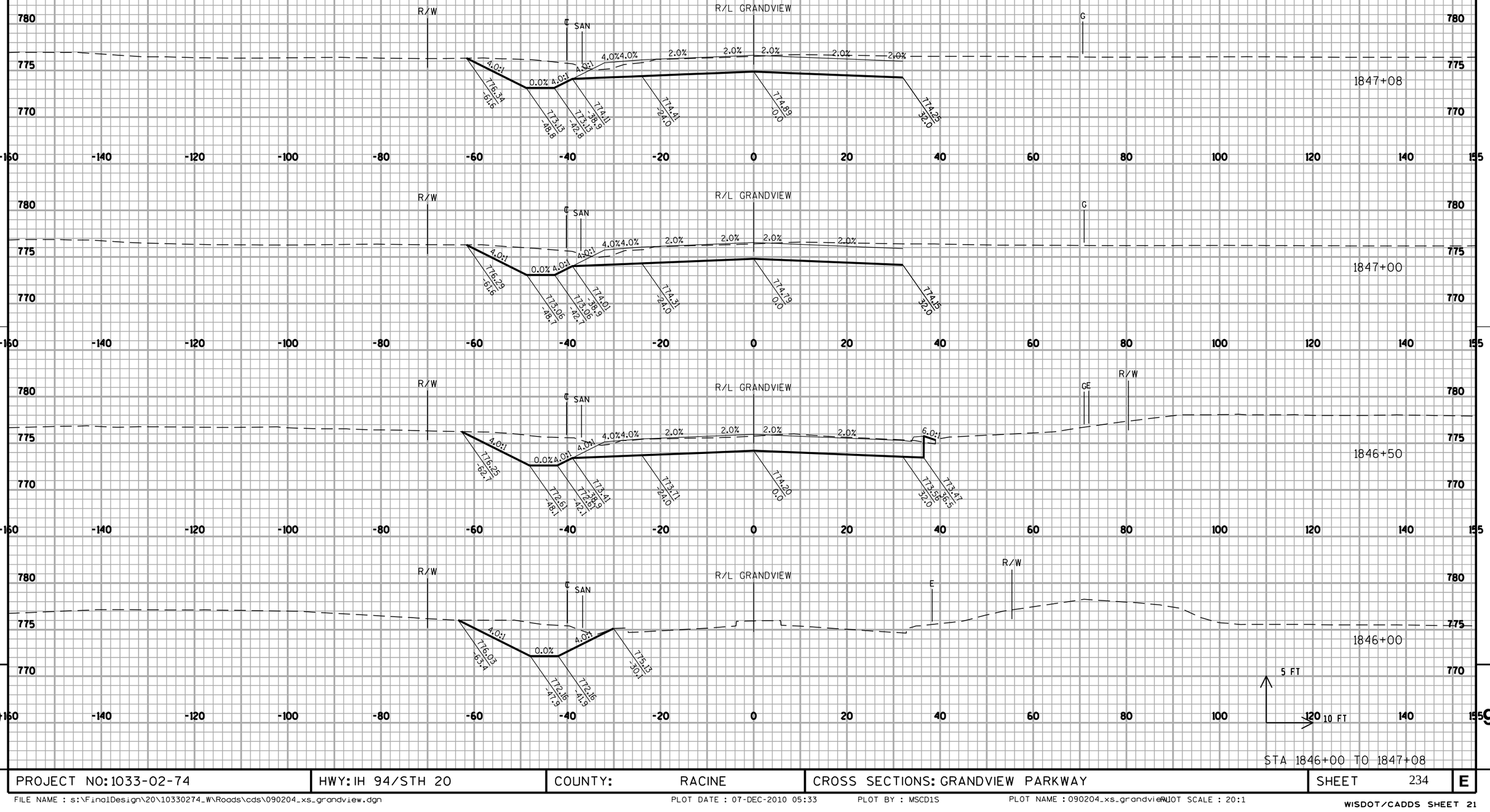


STA 1844+17 TO 1845+50

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: GRANDVIEW PARKWAY	SHEET 233	E

FILE NAME : s:\FinalDesign\20\10330274_W\Roads\cds\090204_xs_grandview.dgn PLOT DATE : 07-DEC-2010 05:33 PLOT BY : MSCD1S PLOT NAME : 090204_xs_grandview PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



STA 1846+00 TO 1847+08

PROJECT NO: 1033-02-74	HWY: IH 94/STH 20	COUNTY: RACINE	CROSS SECTIONS: GRANDVIEW PARKWAY	SHEET 234	E

FILE NAME : s:\FinalDesign\20\10330274_W\Roads\cds\090204_xs_grandview.dgn PLOT DATE : 07-DEC-2010 05:33 PLOT BY : MSCD1S PLOT NAME : 090204_xs_grandview PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

Notes

Wisconsin Department of Transportation

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