10301177-00008RDAPERM

WKE

FEB 13

PROJECT ID: 1030-11-77/78

WITH: 1030-11-70/74, 1030-25-77/78

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 = 568

Section 3- Sheets 217, 220-221 replaced with Revised Sheets 217, 220-221.

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

N-S FREEWAY STH 20 TO CTH K

EAST FRONTAGE RD

IH 94

RACINE COUNTY

STATE PROJECT NUMBER

1030-11-77

WEST FRONTAGE RD

IH 94

RACINE COUNTY

STATE PROJECT NUMBER

1030-11-78

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1030-11-77	WISC 2013045	1
1030-11-78	WISC 2013046	1

AS-BUILT PLAN

SUPERVISOR: Jason Roselle
PROJECT MANAGER: Mark Klipstein
PROJECT LEADER: Kerry Jones
CONTRACTOR: James Peterson Sons, Inc.
WORK STARTED 4/1/2013
WORK COMPLETED 11/22/2013

ORIGINAL PLANS PREPARED BY

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

WISCONSIN PROFESSIONAL ENGINEER
JOSHUA H. MOUNT
E-35706
MILWAUKEE, WI

8/31/2012 (Date) (Signature)

ORIGINAL PLANS PREPARED BY

EMCS
1300 W. Canal Street, Suite 200
Milwaukee, WI 53233
414.347.1607 FAX 414.347.1347

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

8/31/2012 (Date) (Signature)

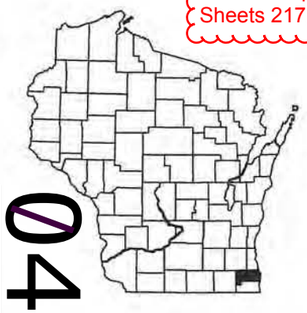
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	WISDOT
Designer	SE DESIGN WORKS
Project Manager	JOSHUA LEVEQUE
District Examiner	
District Supervisor	WAFA ELOAQ

APPROVED FOR THE DEPARTMENT
DATE: 8/31/12 (Signature)

PSE E





END PROJECT 1030-11-78
STA. 2030+25.00

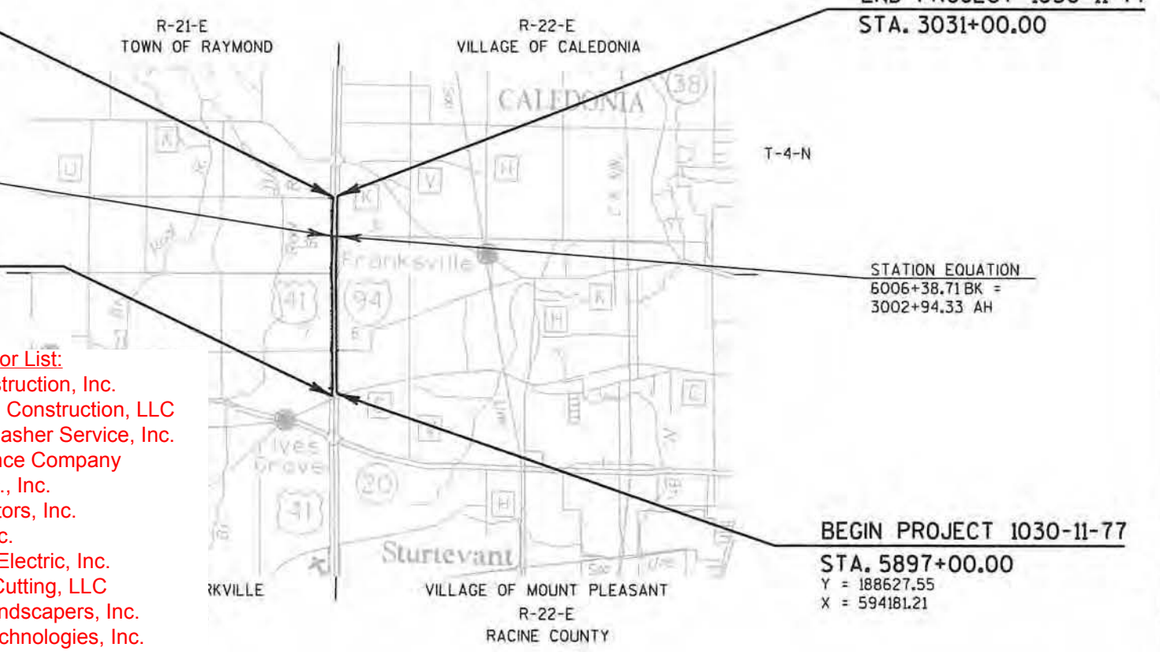
END PROJECT 1030-11-77
STA. 3031+00.00

STATION EQUATION
5020+49.47 BK =
2020+42.87 AH

STATION EQUATION
6006+38.71 BK =
3002+94.33 AH

BEGIN PROJECT 1030-11-78
STA. 4891+90.00
Y = 188455.63
X = 593850.23

BEGIN PROJECT 1030-11-77
STA. 5897+00.00
Y = 188627.55
X = 594181.21



DESIGN DESIGNATION

	EAST FRONTAGE ROAD	WEST FRONTAGE ROAD
A.A.D.T. 2010 =	1275	2880
A.A.D.T. 2035 =	2390	5170
D.H.V. =	230	500
D.D. =	50/50	55/45
T. =	15%	15%
DESIGN SPEED =	60 MPH	60 MPH
ESALS =	1,138,800	1,138,800

CONVENTIONAL SYMBOLS

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

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

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

Subcontractor List:
Antigo Construction, Inc.
Arrow-Crete Construction, LLC
Barricade Flasher Service, Inc.
Century Fence Company
Con-Cor Co., Inc.
DK Contractors, Inc.
GeoTest, Inc.
Habermehl Electric, Inc.
Hard Core Cutting, LLC
Highway Landscapers, Inc.
Highway Technologies, Inc.
Interra
JSD Professional Services, Inc.
Northway Fence
Payne and Dolan, Inc.
RAMS Contracting, LTD
Super Excavators
T&T Tree Service, Inc.
Tremmel-Anderson Trucking, LLC
Vizcaino's Trucking, LLC

LAYOUT
SCALE 0 1.0 MI.
I.D. 1030-11-77 = 2.603 MI. EAST FRONTAGE ROAD
I.D. 1030-11-78 = 2.622 MI. WEST FRONTAGE ROAD
LENGTH OF CENTERLINE = 5.225 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)).

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\010101_ti.dgn PLOT DATE : 8/23/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:10560

WISDOT/CADDS SHEET 10

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.

UTILITY CONTACTS

DIGGERS HOTLINE

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

AT&T CORPORATION
MR. RICH MEYERS
JMC ENGINEERS & ASSOCIATES, INC.
110 NORTH MAIN STREET
CULVER, IN 46511
PHONE: (630)215-7567

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

CALEDONIA STORM SEWER UTILITY COMMISSION
TONY BUNKELMAN, DRAINAGE ENGINEER
CALEDONIASTORM SEWER UTILITY COMMISSION
6922 NICHOLSON ROAD
CALEDONIA, WI 53108
PHONE: (262) 835-6416
EMAIL: abunkelman@caledoniawi.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
EMAIL: Mark.Dechant@Level3.com

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

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

WE ENERGIES (ELECTRIC)
SEND ALL CORRESPONDENCE TO: DAN SANDE
MR. DAN SANDE, PROJECT MANAGER
WE ENERGIES (ELECTRIC)
333 W. EVERETT STREET - A279
MILWAUKEE, WI 53203
PHONE: (414) 221-4578
EMAIL: dan.sande@we-energies.com

CONSTRUCTION FIELD CONTACT:
MR. ED HERDA
700 S. KANE STREET
BURLINGTON, WI 53105
PHONE: (262) 763-1013
EMAIL: Ed.herda@we.energies.com

WE ENERGIES (GAS OPERATIONS)
SEND ALL CORRESPONDENCE TO: DAN SANDE
MR. DAN SANDE, PROJECT MANAGER
WISCONSIN GAS COMPANY D/B/A WE ENERGIES
(GAS OPERATIONS)
333 W. EVERETT STREET - A279
MILWAUKEE, WI 53203
PHONE: (414) 221-4578
EMAIL: dan.sande@we-energies.com

CONSTRUCTION FIELD CONTACT:
CHRIS DEGRAVE
7815 NORTHWESTERN AVE
RACINE, WI 53406
PHONE: (262) 886-7018
EMAIL: Chris.DeGrave@we-energies.com

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

OTHER AGENCIES

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

RACINE COUNTY DPW
MR. JEFFREY KATZ
MANAGER PLANNING/ENGINEERING
14200 WASHINGTON AVE.
STURTEVANT, WI 53177
PHONE: (262) 886-8440
jeff.katz@goracine.org

VILLAGE OF MOUNT PLEASANT
MR. BILL SASSE
DIRECTOR OF ENGINEERING
6126 DURAND AVENUE
RACINE, WI 53406
PHONE: (262) 554-8750
bsasse@mtpleasantwi.gov

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

RAYMOND, TOWN OF
MS. LINDA TERRY
TOWN CLERK
2255 S. 76TH STREET
FRANKSVILLE, WI 53126
PHONE: (262) 835-4426

WISCONSIN DEPARTMENT OF NATURAL RESOURCES (SOUTHEAST REGION)
KRISTINA BETZOLD
2300 N. MARTIN LUTHER KING DR.
MILWAUKEE, WI 53212
PHONE: (414) 263-8517
Kristina.Betzold@Wisconsin.gov

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KARLA LEITHOFF, WETLAND ECOLOGIST
141 NW BARSTOW ST.
WAUKESHA, WI 53187-0798
PHONE: (262) 548-6709
Karla.leithoff@dot.wi.gov

WISCONSIN DEPARTMENT OF TRANSPORTATION
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141 NW BARSTOW ST.
WAUKESHA, WI 53187-0798
PHONE: (414) 220-5444
Joshua.leveque@dot.wi.gov

DAAR ENGINEERING, INC.
JOSHUA MOUNT
325 E. CHICAGO ST., SUITE 500
MILWAUKEE, WI 53202
PHONE: (414) 225-9817
joshua.mount@daarcorp.com

EMCS, INC.
BRIAN WILSON
1300 WEST CANAL ST., SUITE 200
MILWAUKEE, WI 53233
PHONE: (414) 347-1607
bwilson@emcsinc.com

VILLAGE OF CALEDONIA
MR. MICHAEL HAYEK
VILLAGE ENGINEER
6922 NICHOLSON ROAD
CALEDONIA, WI 53108
PHONE: (262) 835-6423
mhayek@caledoniawi.com

ORDER OF SECTION 2 DETAIL SHEETS

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
CLEARING & GRUBBING/WETLAND IMPACTS
PLAN DETAILS
EROSION CONTROL
EXISTING AND PERMANENT SIGNING
PAVEMENT MARKING
TRAFFIC CONTROL
STAGE CONSTRUCTION
FENCING
ALIGNMENT PLANS

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 PLANS REFLECT UTILITIES AS OF SEPTEMBER 2011; UTILITIES INSTALLED OR RELOCATED SINCE THAT TIME ARE NOT REFLECTED.

-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 ABANDONMENT 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 THE 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.

-STORAGE AND/OR STAGING OF ANY MATERIAL WILL NOT BE PERMITTED IN WETLANDS.

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

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

-A SAWED JOINT IS REQUIRED WHERE NEW ASPHALTIC CONCRETE SURFACE MEETS EXISTING ASPHALTIC CONCRETE SURFACE.

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

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

-USE CLASS II TYPE C EROSION MAT ADJACENT TO DISTURBED AREAS NEXT TO WETLANDS. DO NOT INSTALL CLASS II TYPE C EROSION MAT IN WATER.

-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.

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

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

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

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

-FERTILIZER SHALL NOT BE USED NEAR NAVIGABLE WATERWAYS OR WETLANDS.

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

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

PAVEMENT TYPE	TOTAL LAYER PAVEMENT THICKNESS	LAYERS	NORMAL MAXIMUM SIZE GRADATION	ASPHALTIC MATERIAL
E-3	5.5"	1 3/4" UPPER LAYER 3 3/4" LOWER LAYER	12.5 MM 19.0 MM	PG-58-28 PG-58-28

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

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

-A CONVERSION FACTOR OF 1.80 TONS/CY IS USED TO ESTIMATE QUANTITIES FOR SELECT CRUSHED MATERIAL.

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

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 CONSTRUCTION LINE
CONC	CONCRETE
CP	CULVERT PIPE
CPCM	CULVERT PIPE CORRUGATED METAL
CPRCHE	CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL
CPRC	CULVERT PIPE REINFORCED CONCRETE
CSD	CONCRETE SURFACE DRAIN
CY	CUBIC-YARD
D	DEGREE OF CURVE
△	DELTA
DISCH	DISCHARGE
EFR	EAST FRONTAGE ROAD
EL	ELEVATION
ESTR	EXISTING SIGN TO REMAIN
FE	FIELD ENTRANCE
FMS	FIXED MESSAGE SIGN
HECPRC	HORIZONTAL ELLIPTICAL CULVERT PIPE REINFORCED CONCRETE
HMA	HOT MIX ASPHALT
INV	INVERT
L	LENGTH OF CURVE
LHF	LEFT HAND FORWARD
LT	LEFT
MIN	MINIMUM
M/L	MATCHLINE
NB	NORTHBOUND
NC	NORMAL CROWN
PAVT	PAVEMENT
PC	POINT-OF CURVE
PCC	POINT OF COMPOUND CURVE
PE	PRIVATE ENTRANCE
PGL	PROFILE GRADE LINE
PI	POINT OF INTERSECTION
PLE	PERMANENT LIMITED EASEMENT
PT	POINT OF TANGENT
R	RADIUS OF CURVE
R/L	REFERENCE LINE
R/W	RIGHT OF WAY
RC	REVERSE CROWN
RCAEW	APRON ENDWALL FOR CULVERT PIPE REINFORCE CONCRETE
REQD	REQUIRED
RHF	RIGHT HAND FORWARD
RO	RUN OFF LENGTH
RT	RIGHT
SALV	SALVAGED
SB	SOUTHBOUND
SDD	STANDARD DETAIL DRAWING
SE	SUPER ELEVATION
SF	SQUARE FOOT
SSPRC	STORM SEWER PIPE REINFORCED CONCRETE
SSPRCHE	STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL
STA	STATION
SY	SQUARE YARD
T	TANGENT LENGTH
TLE	TEMPORARY LIMITED EASEMENT
TYP	TYPICAL
VCL	VERTICAL CURVE LENGTH
VPC	POINT OF VERTICAL CURVE
VPI	POINT OF VERTICAL INTERSECTION
VPT	POINT OF VERTICAL TANGENT
WFR	WEST FRONTAGE ROAD

2

2

2

N

TOWN OF YORKVILLE

TOWN OF RAYMOND

BEGIN PROJECT 1030-11-78
MATCH PROJ. 1033-02-74 (PREVIOUSLY CONSTRUCTED)
STA 4891+90

SECTION LINE

C.T.H. C

EVANS LANE

BEGIN CONSTRUCTION
STA 80+75

KRAUT ROAD (50TH ROAD)

BEGIN CONSTRUCTION
STA 46+16.29

SECTION LINE

2 MILE ROAD

BEGIN CONSTRUCTION
STA 8+70

STATION EQUATION
STA 5020+49.47 BK=
STA 2020+42.87 AH

BEGIN CONSTRUCTION
STA 18+00

NICHOLAS ROAD

3 MILE ROAD

BEGIN CONSTRUCTION
STA 27+25

END PROJECT 1030-11-78
BEGIN PROJECT 1030-11-74
STA 2030+25±

C.T.H. K

SECTION LINE

WEST FRONTAGE ROAD

EAST FRONTAGE ROAD

IH 94

SECTION LINE

S.T.H. 20

KRAUT ROAD

END CONSTRUCTION
STA 52+19.89

SECTION LINE

GOLF ROAD

END CONSTRUCTION
STA 72+00

SECTION LINE

4 MILE ROAD

BELL ROAD

C.T.H. K

STATION EQUATION
STA 6006+38.72 BK=
STA 3002+94.33 AH

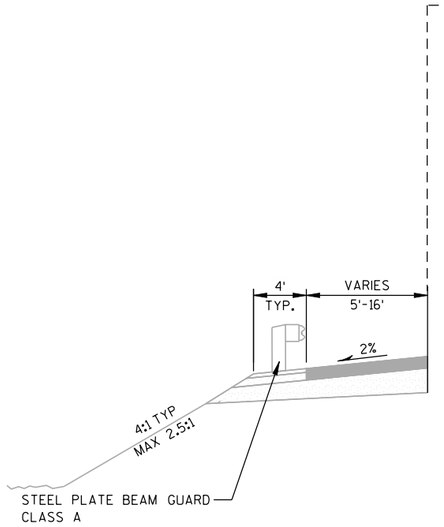
BEGIN PROJECT 1030-11-77
MATCH PROJ. 1033-02-70 (PREVIOUSLY CONSTRUCTED)
STA 5897+00

END PROJECT 1030-11-77
BEGIN PROJECT 1030-11-70
STA 3031+00

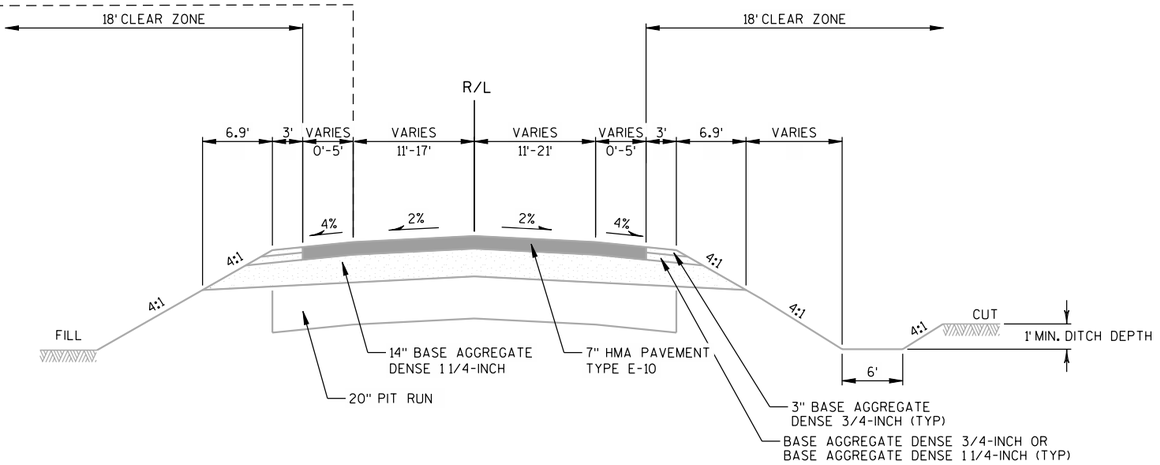
VILLAGE OF MOUNT PLEASANT

VILLAGE OF CALEDONIA

PROJECT NO: 1030-11-77/78	HWY: IH 94	COUNTY: RACINE	PROJECT OVERVIEW	SHEET 4	E



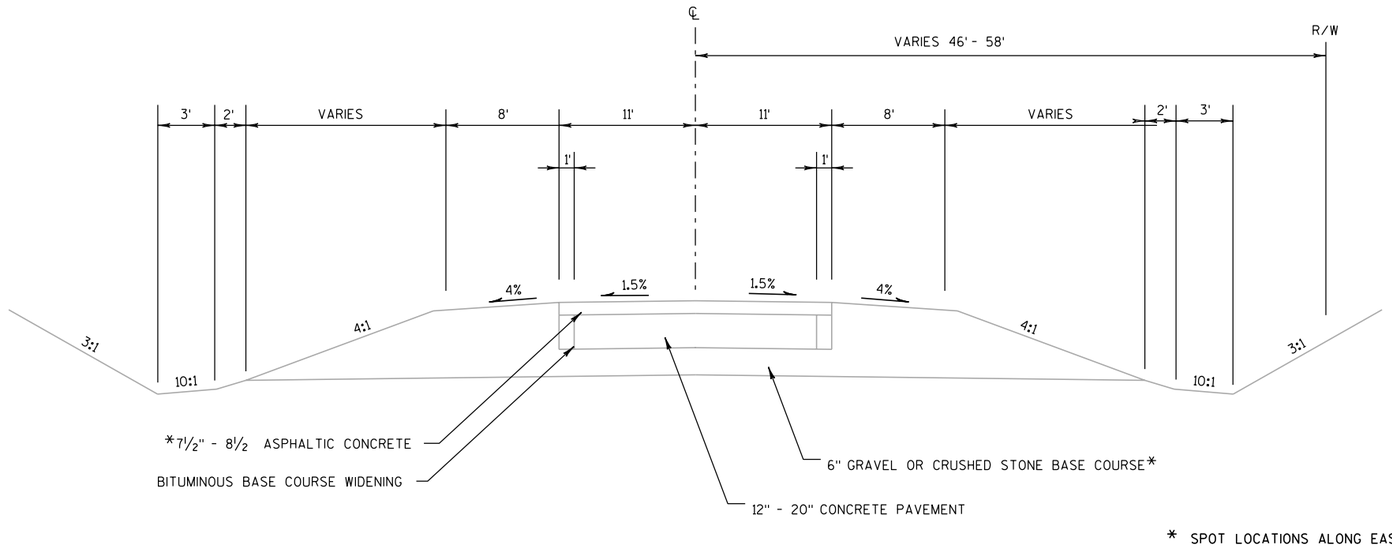
STA 5897+00 TO STA 5898+04



TYPICAL EXISTING SECTION
EAST FRONTAGE ROAD

STA 5897+00 TO STA 5901+23

EFR BORINGS		
APPROX. STA	**BORING #**	**THICKNESS (INCHES)**
5910+75	**RPA 65**	**8.5" ASPHALTIC CONCRETE PAVEMENT, 19.5" CONCRETE PAVEMENT**
5941+00	**RPA 68**	**8" ASPHALTIC CONCRETE PAVEMENT, 19.5" CONCRETE PAVEMENT**
5955+75	**RPA 69**	**8" ASPHALTIC CONCRETE PAVEMENT 20" CONCRETE PAVEMENT**
5970+75	**RPA 70**	**8" ASPHALTIC CONCRETE PAVEMENT, 16" CONCRETE PAVEMENT**
5985+75	**RPA 71**	**7.5" ASPHALTIC CONCRETE PAVEMENT, 12" SAND, 12" CONCRETE PAVEMENT**
6000+75	**RPA 72**	**8" ASPHALTIC CONCRETE PAVEMENT, 12" SAND, 12" CONCRETE PAVEMENT**
3012+25	**RPA 74**	**8" ASPHALTIC CONCRETE PAVEMENT, 18" CONCRETE PAVEMENT**



TYPICAL EXISTING SECTION
EAST FRONTAGE ROADS

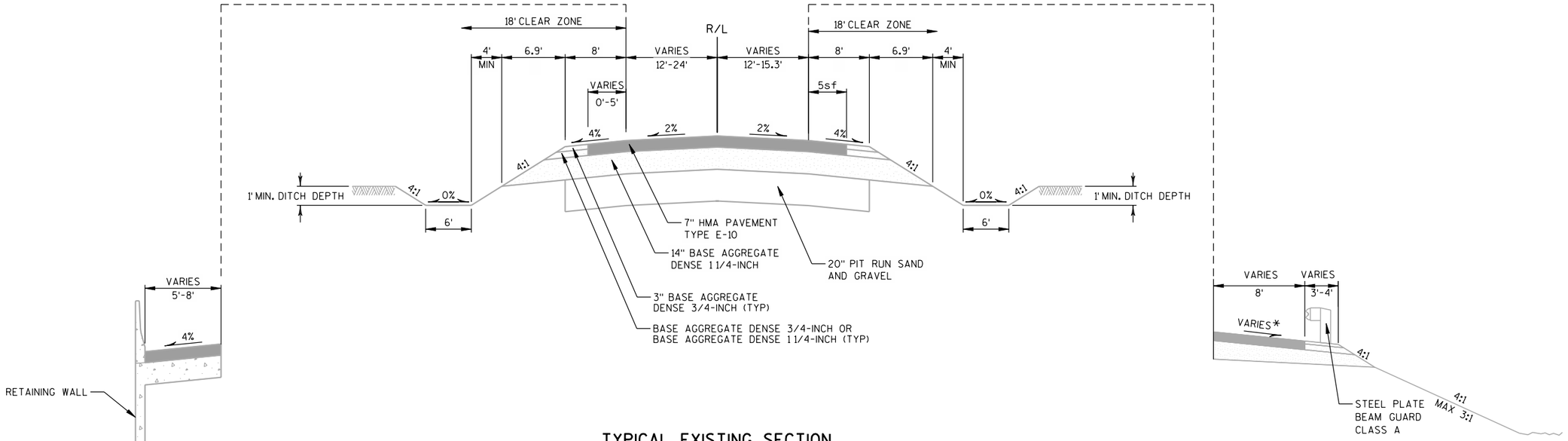
STA 5901+23 TO STA 3031+00

* SPOT LOCATIONS ALONG EAST FRONTAGE ROAD WERE FOUND TO HAVE A 12" SAND LIFT BETWEEN ASPHALTIC CONCRETE AND CONCRETE PAVEMENT. (SEE BORING TABLE)

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	TYPICAL SECTIONS	SHEET 5	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\020301_ts.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:10

WISDOT/CADDS SHEET 42

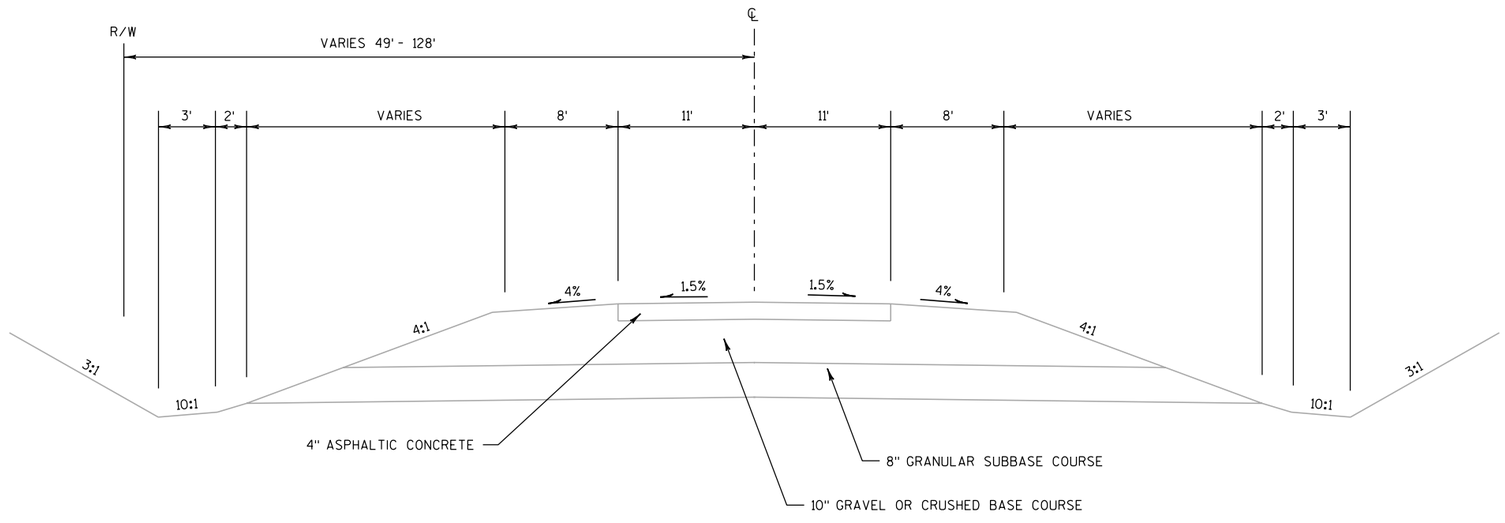


STA 4891+90 TO STA 4892+32

TYPICAL EXISTING SECTION
WEST FRONTAGE ROAD

STA 4891+90 TO STA 4896+88

STA 4891+90 TO STA 4893+00



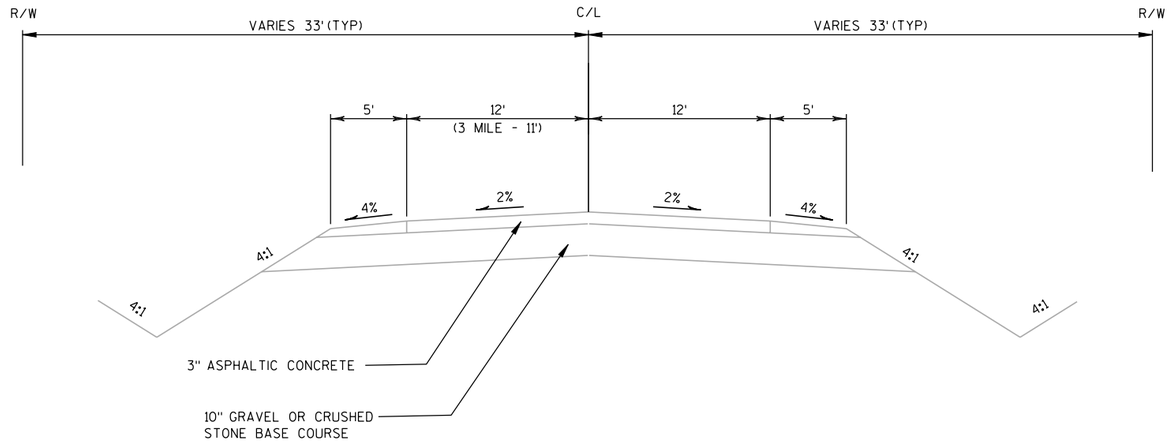
TYPICAL EXISTING SECTION
WEST FRONTAGE ROADS

STA 4896+88 TO STA 2030+25

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	TYPICAL SECTIONS	SHEET 6	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\020301_ts.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:10

2



TYPICAL EXISTING SECTION

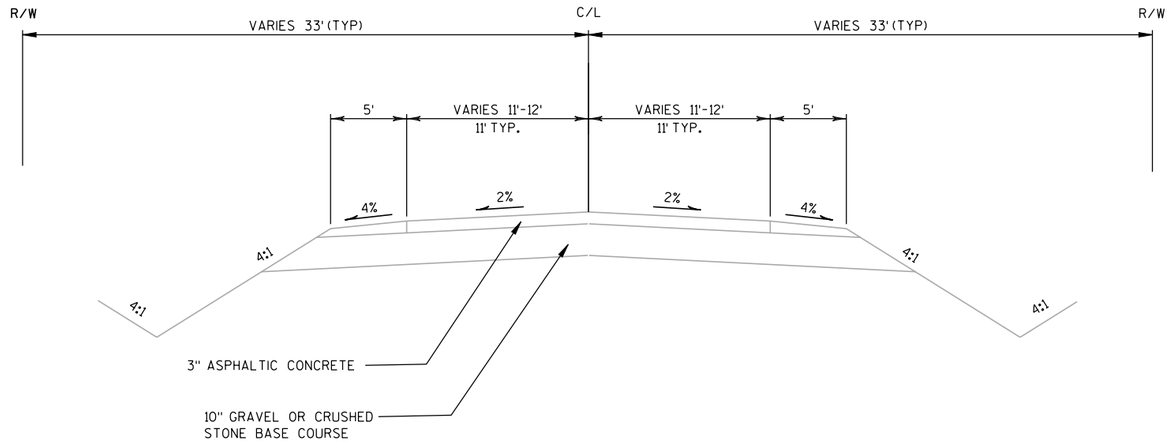
EVANS LANE
STA 80+75 TO STA 82+72

2 MILE ROAD
STA 8+39 TO STA 9+67

NICHOLAS ROAD
STA 18+00 TO STA 20+00

3 MILE ROAD
STA 28+00 TO STA 30+00

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	TYPICAL SECTIONS	SHEET 7	E



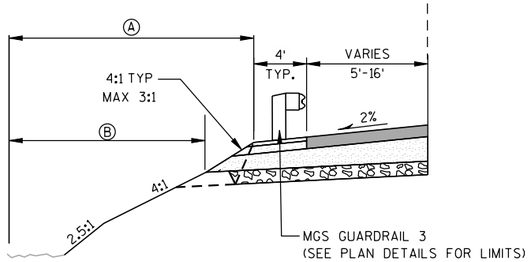
TYPICAL EXISTING SECTION

KRAUT ROAD
STA 46+16 TO STA 52+20

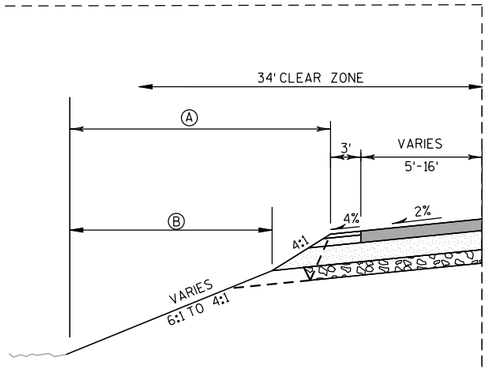
GOLF ROAD
STA 67+55 TO STA 72+00

PROJECT NO: 1030-11-77/78	HWY: IH 94	COUNTY: RACINE	TYPICAL SECTIONS	SHEET 8 HOL	E

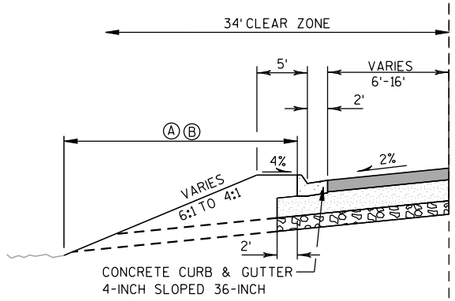
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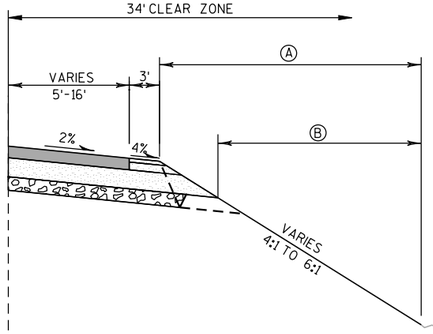
STA 5918+75 TO STA 5925+75
STA 5975+75 TO STA 5988+75



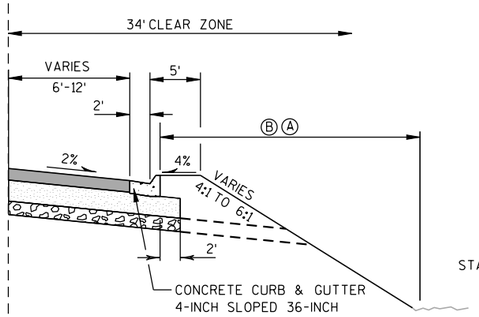
STA 5926+25 TO STA 5926+42



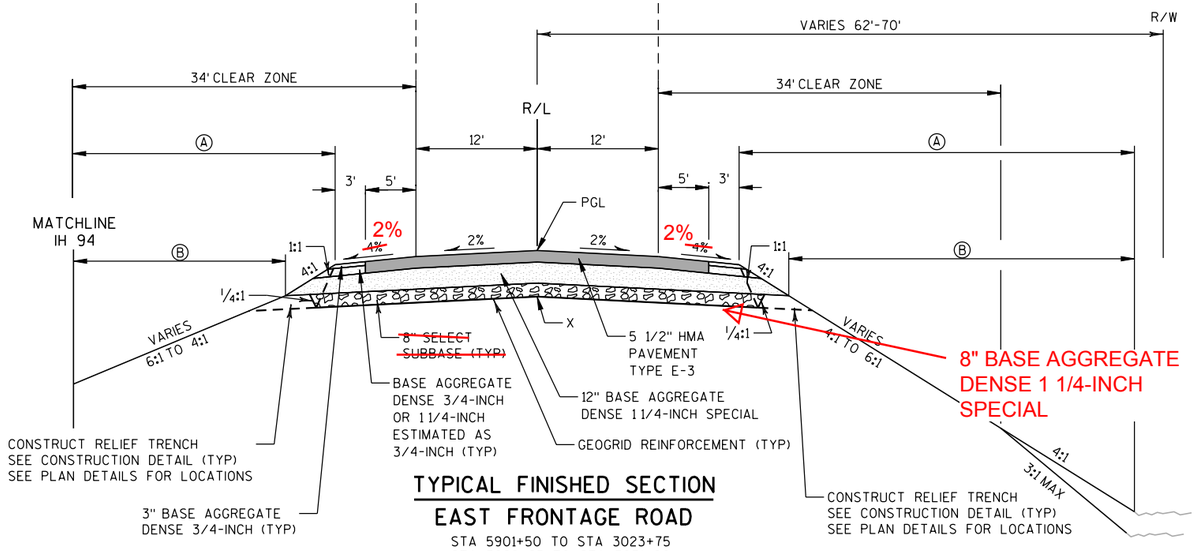
STA 5927+79 TO STA 5931+16
STA 5998+75 TO STA 6005+34
STA 3003+69 TO STA 3008+26



STA 5922+32 TO STA 5926+22
STA 6001+63 TO STA 6005+59
STA 3003+50 TO STA 3004+50



STA 5927+57 TO STA 5933+25



TYPICAL FINISHED SECTION
EAST FRONTAGE ROAD

STA 5901+50 TO STA 3023+75
STA 3028+25 TO STA 3031+00

LEGEND:

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

(B) 4" SALVAGED TOPSOIL AND MULCHING

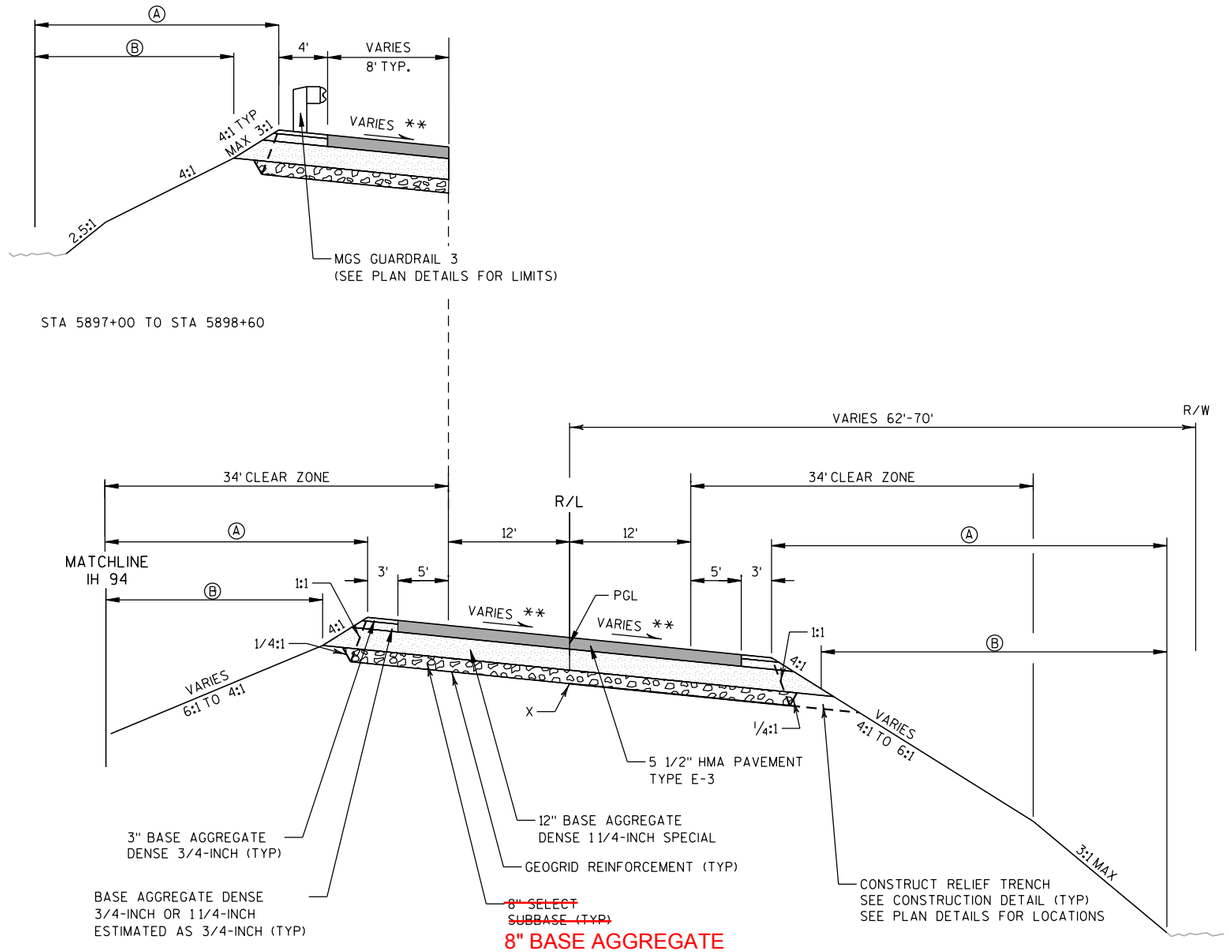
*EXCEPT USE SEEDING MIXTURE NO. 40 AT AREAS DESIGNATED IN THE EROSION CONTROL PLANS

NOTE:

PGL = POINT REFERRED TO ON PROFILE
X = POINT REFERRED TO ON CROSS SECTION

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	TYPICAL SECTIONS	SHEET 9	E

2



LEGEND:

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

(B) 4" SALVAGED TOPSOIL AND MULCHING

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

NOTE:

PGL = POINT REFERRED TO ON PROFILE
X = POINT REFERRED TO ON CROSS SECTION

** = REFER TO CROSS SECTIONS AND SUPERELEVATION CHART FOR CORRECT CROSS-SLOPE

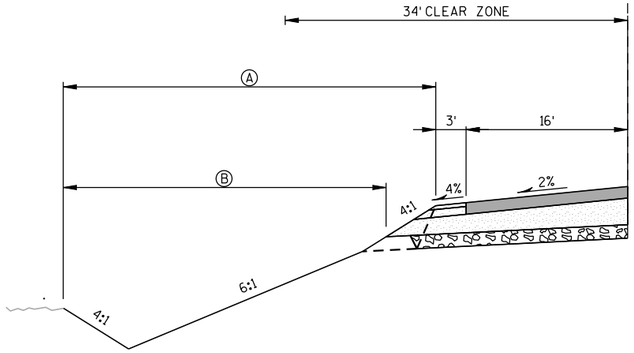
TYPICAL FINISHED SUPERELEVATED SECTION

EAST FRONTAGE ROAD

STA 5897+00 TO STA 5901+50
STA 3023+75 TO STA 3028+25

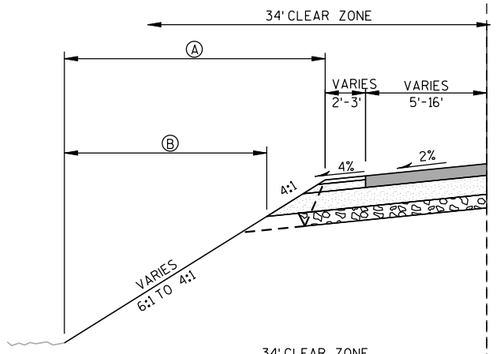
PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	TYPICAL SECTIONS	SHEET 10 ~~FOL~~	E

2

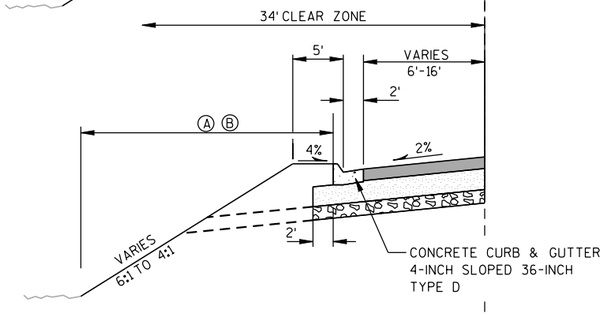


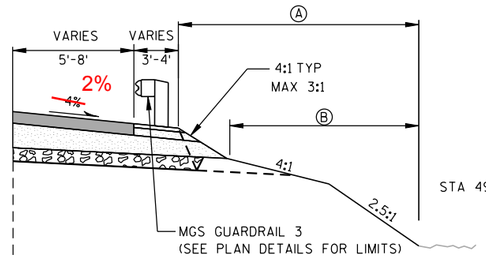
STA 2030+00 TO STA 2030+25

STA 4897+28 TO STA 4900+00
STA 4922+02 TO STA 4923+02
STA 4975+21 TO STA 4976+24
STA 4977+51 TO STA 4980+84
STA 4997+76 TO STA 5007+36
STA 2021+18 TO STA 2025+18
STA 2027+82 TO STA 2028+82

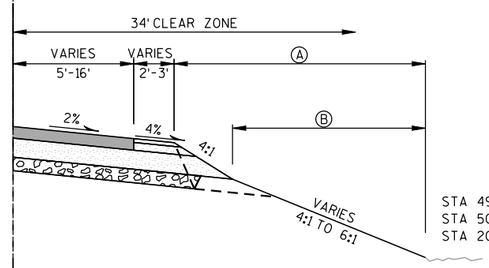


STA 4924+31 TO STA 4930+00
STA 4976+24 TO STA 4977+51
STA 5014+25 TO STA 5020+00

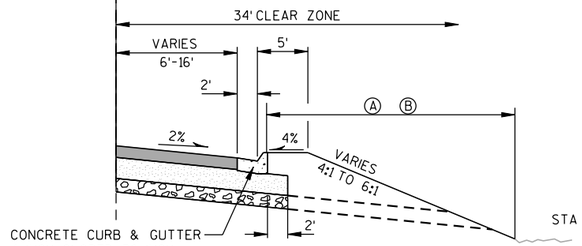




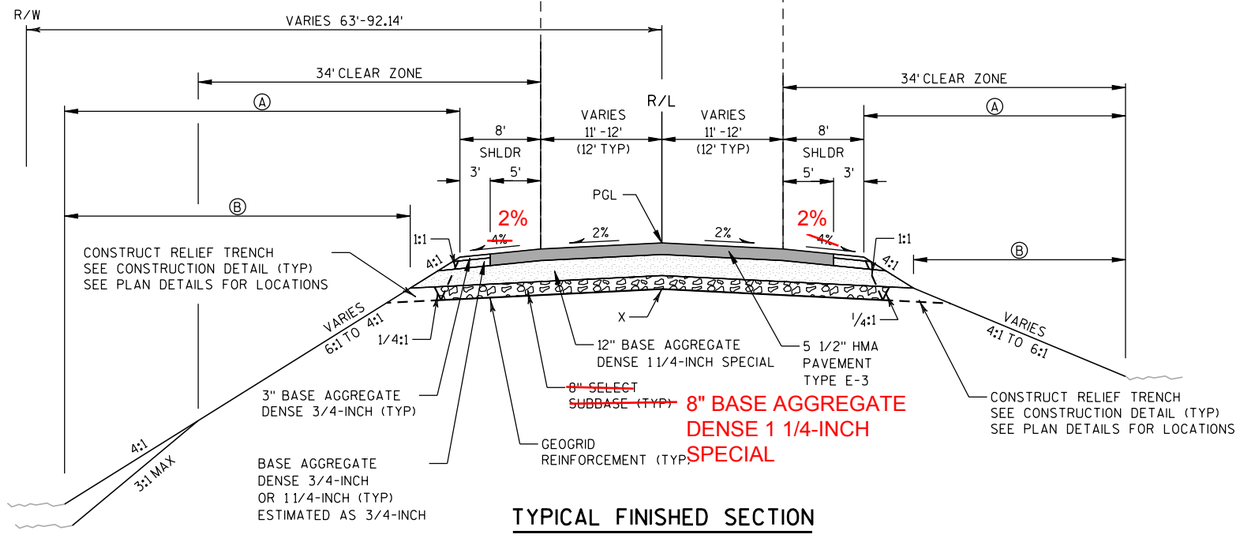
STA 4975+59 TO STA 4977+84



STA 4918+76 TO STA 4925+16
STA 5003+61 TO STA 5004+61
STA 2025+04 TO STA 2030+25



STA 4990+00 TO STA 5002+24



TYPICAL FINISHED SECTION
WEST FRONTAGE ROAD

STA 4897+75 TO STA 4965+50
STA 4970+50 TO STA 4984+25
STA 4988+00 TO STA 2030+25

LEGEND:

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

(B) 4" SALVAGED TOPSOIL AND MULCHING

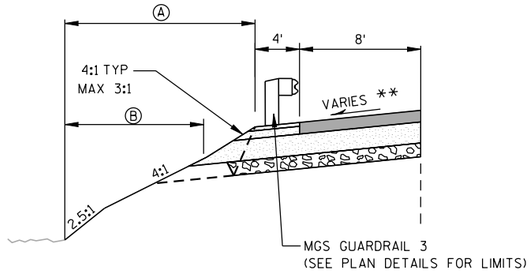
*EXCEPT USE SEEDING MIXTURE NO. 40 AT AREAS DESIGNATED IN THE EROSION CONTROL PLANS

NOTE:

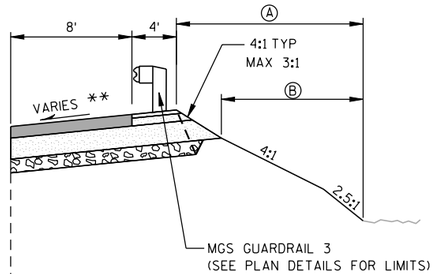
PGL = POINT REFERRED TO ON PROFILE
X = POINT REFERRED TO ON CROSS SECTION

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	TYPICAL SECTIONS	SHEET 11	E

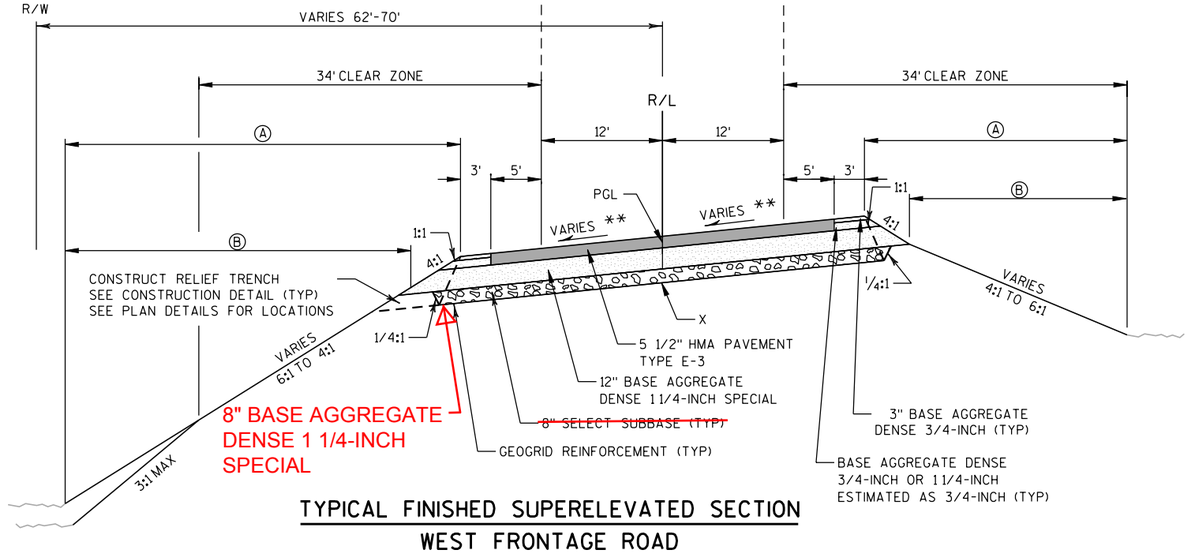
2



STA 4892+52 TO STA 4893+02



STA 4891+90 TO STA 4893+50



TYPICAL FINISHED SUPERELEVATED SECTION
WEST FRONTAGE ROAD

STA 4891+90 TO STA 4897+75
STA 4965+50 TO STA 4970+50
STA 4984+25 TO STA 4988+00

NOTE:
STA 4891+90 TO STA 4892+42 IS NOT A FULL RECONSTRUCT. REMOVE THE EXISTING 7" ASPHALTIC SURFACE, PLACE 1 1/2" BASE AGG DENSE 1 1/4-INCH SPECIAL, AND PAVE 5 1/2" HMA PAVEMENT TYPE E-3.

** = REFER TO CROSS SECTIONS AND SUPERELEVATION CHART FOR CORRECT CROSS-SLOPE

LEGEND:

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

(B) 4" SALVAGED TOPSOIL AND MULCHING

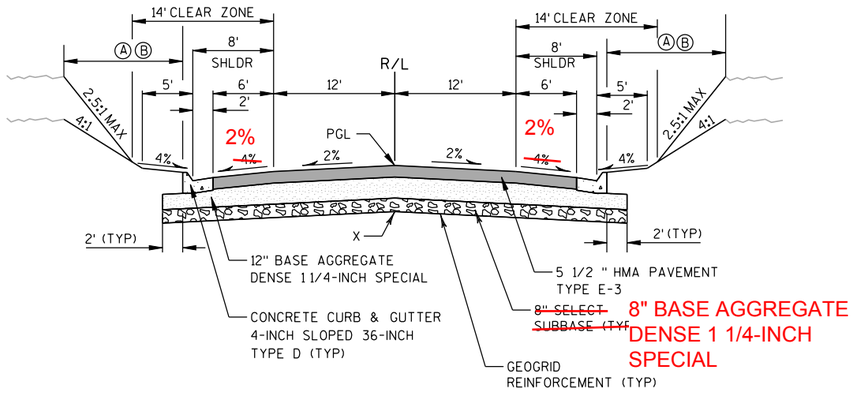
*EXCEPT USE SEEDING MIXTURE NO. 40 AT AREAS DESIGNATED IN THE EROSION CONTROL PLANS

NOTE:

PGL = POINT REFERRED TO ON PROFILE
X = POINT REFERRED TO ON CROSS SECTION

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	TYPICAL SECTIONS	SHEET 12	E

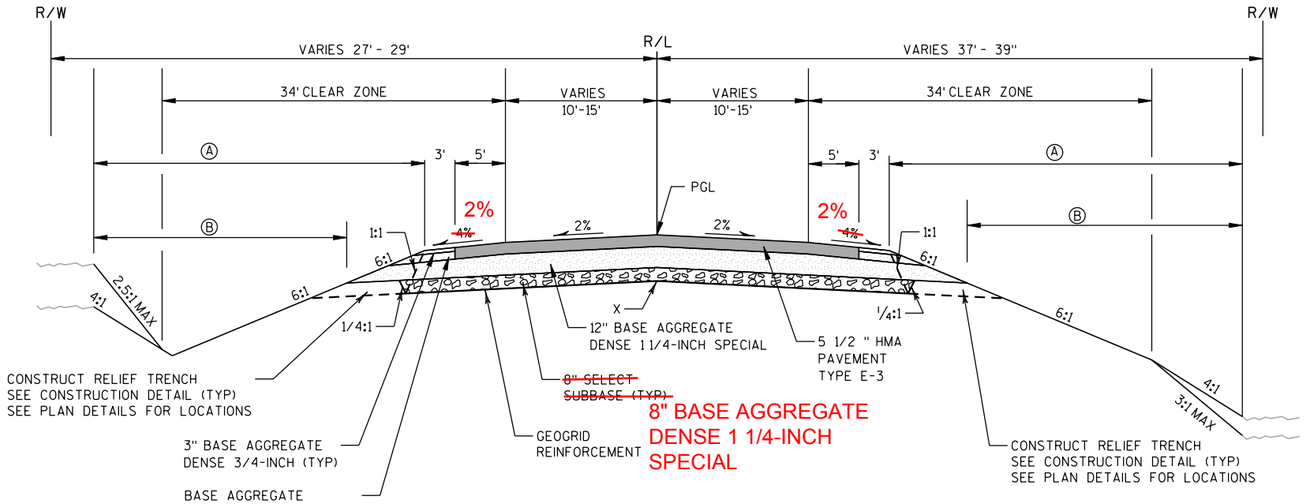
FILE NAME : Z:\Racine\CADDS\16\16E\CDS\020302_ts.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : $FILE$ | PLOT SCALE : 1:15



TYPICAL FINISHED SECTION

KRAUT ROAD

STA 46+72 TO STA 47+25



TYPICAL FINISHED SECTION

KRAUT ROAD

STA 50+80 TO STA 52+20

LEGEND:

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

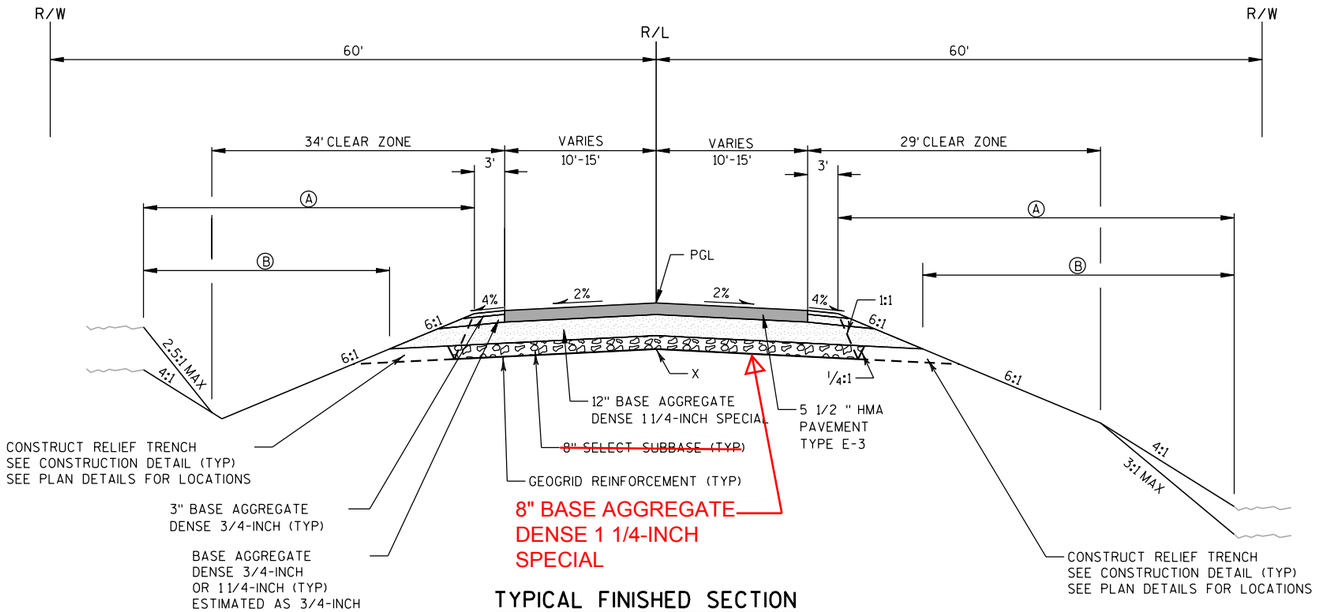
(B) 4" SALVAGED TOPSOIL AND MULCHING

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

NOTE:

PGL = POINT REFERRED TO ON PROFILE
X = POINT REFERRED TO ON CROSS SECTION

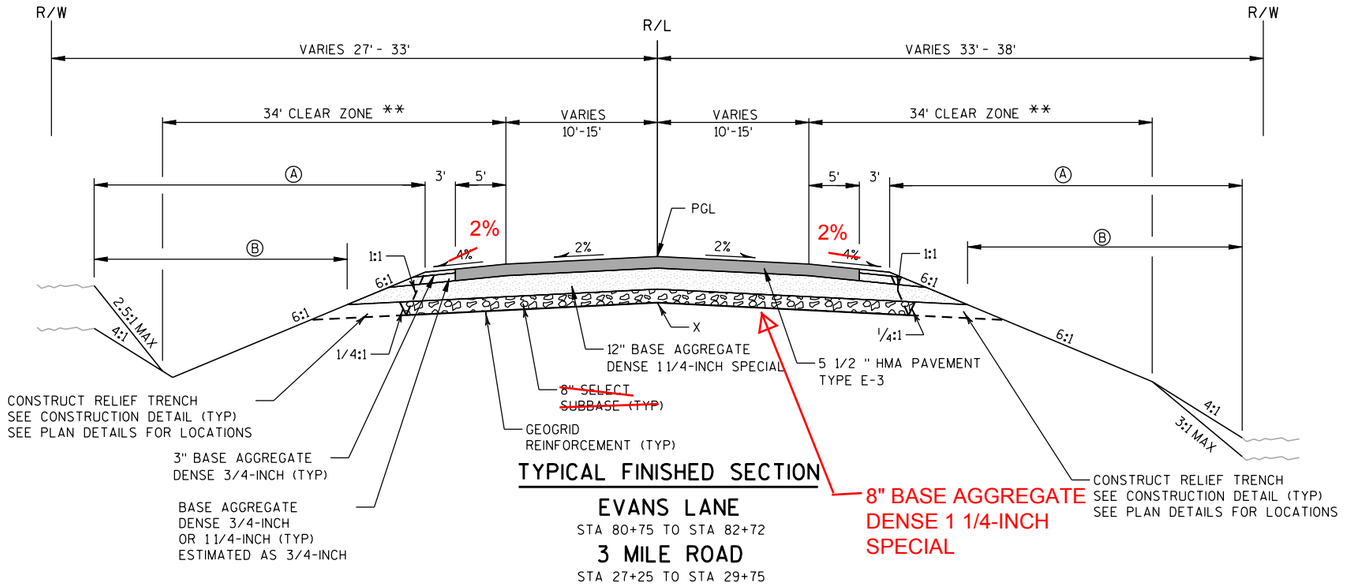
PROJECT NO: 1030-11-77/78	HWY: IH 94	COUNTY: RACINE	TYPICAL SECTIONS	SHEET 13	E



TYPICAL FINISHED SECTION

GOLF ROAD

STA 69+73 TO STA 72+00



TYPICAL FINISHED SECTION

EVANS LANE

STA 80+75 TO STA 82+72

3 MILE ROAD

STA 27+25 TO STA 29+75

2 MILE ROAD

STA 8+70 TO STA 9+67

KRAUT ROAD

STA 46+16 TO STA 46+72
STA 48+00 TO STA 48+31
STA 49+75 TO STA 50+20

LEGEND:

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

(B) 4" SALVAGED TOPSOIL AND MULCHING

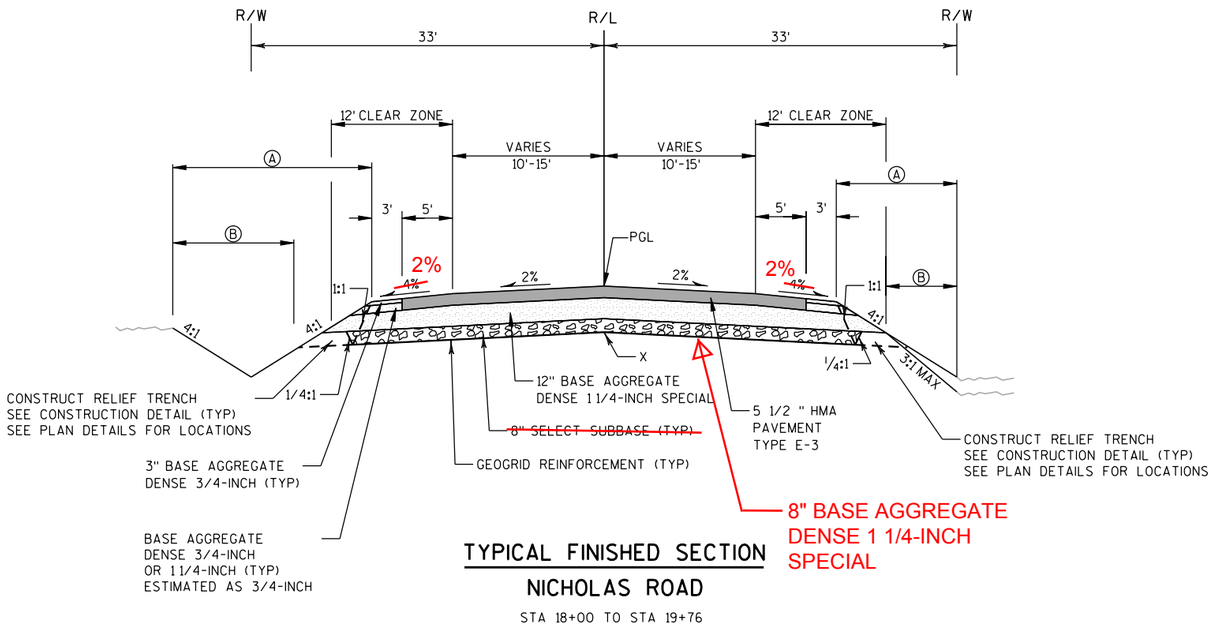
*EXCEPT USE SEEDING MIXTURE NO. 40 AT AREAS DESIGNATED IN THE EROSION CONTROL PLANS

NOTE:

PGL = POINT REFERRED TO ON PROFILE
X = POINT REFERRED TO ON CROSS SECTION
** = 18' CLEAR ZONE FOR EVANS LANE

PROJECT NO: 1030-11-77/78	HWY: IH 94	COUNTY: RACINE	TYPICAL SECTIONS	SHEET 14	E

2



TYPICAL FINISHED SECTION

NICHOLAS ROAD

STA 18+00 TO STA 19+76

LEGEND:

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

(B) 4" SALVAGED TOPSOIL AND MULCHING

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

NOTE:

PGL = POINT REFERRED TO ON PROFILE
X = POINT REFERRED TO ON CROSS SECTION

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	TYPICAL SECTIONS	SHEET 15	E

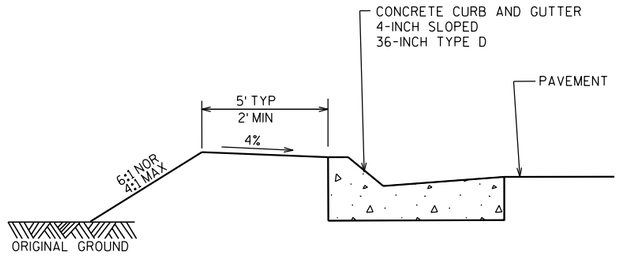
2

RUNOFF COEFFICIENT TABLE

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

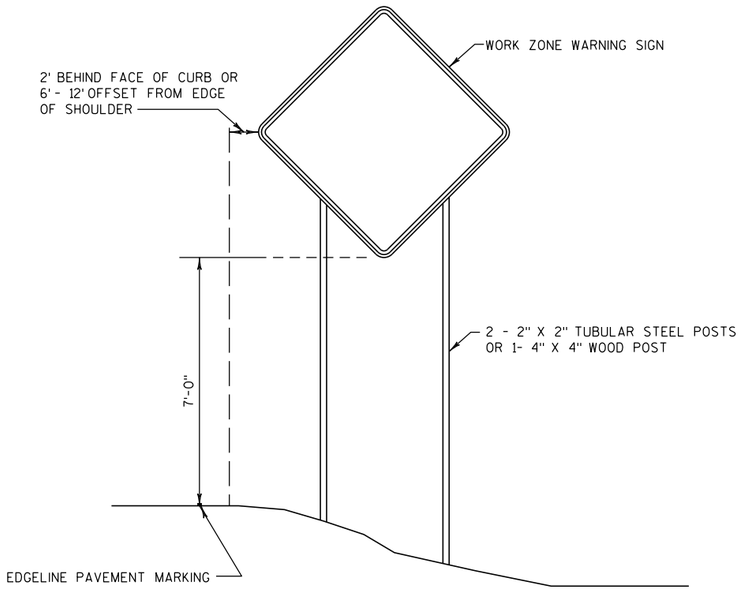
TOTAL PROJECT AREA = 147.00 ACRES (STH 20 TO CTH K R/W AREA)
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 31.91 ACRES (I.D. 1030-11-77 DISTURBED AREA)
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 36.06 ACRES (I.D. 1030-11-78 DISTURBED AREA)

090805



TYPICAL PARTIAL SECTION AT INTERSECTION RADII

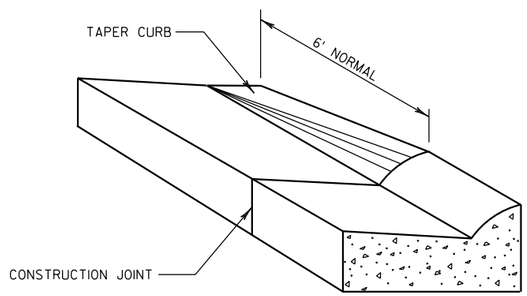
081230



TYPICAL TEMPORARY TRAFFIC CONTROL SIGN MOUNTING ON FIXED SUPPORT

LONG TERM
7 DAYS OR MORE

101105

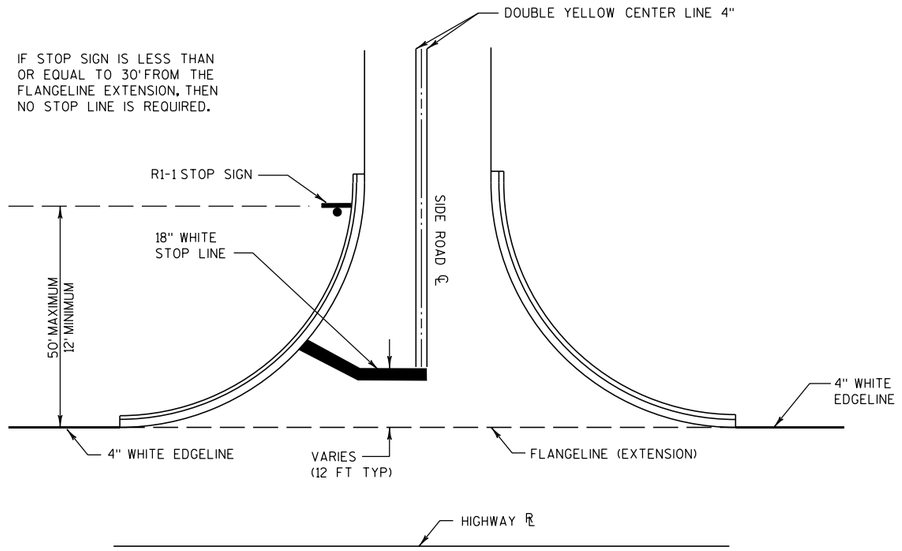


CURB & GUTTER TERMINI DETAIL

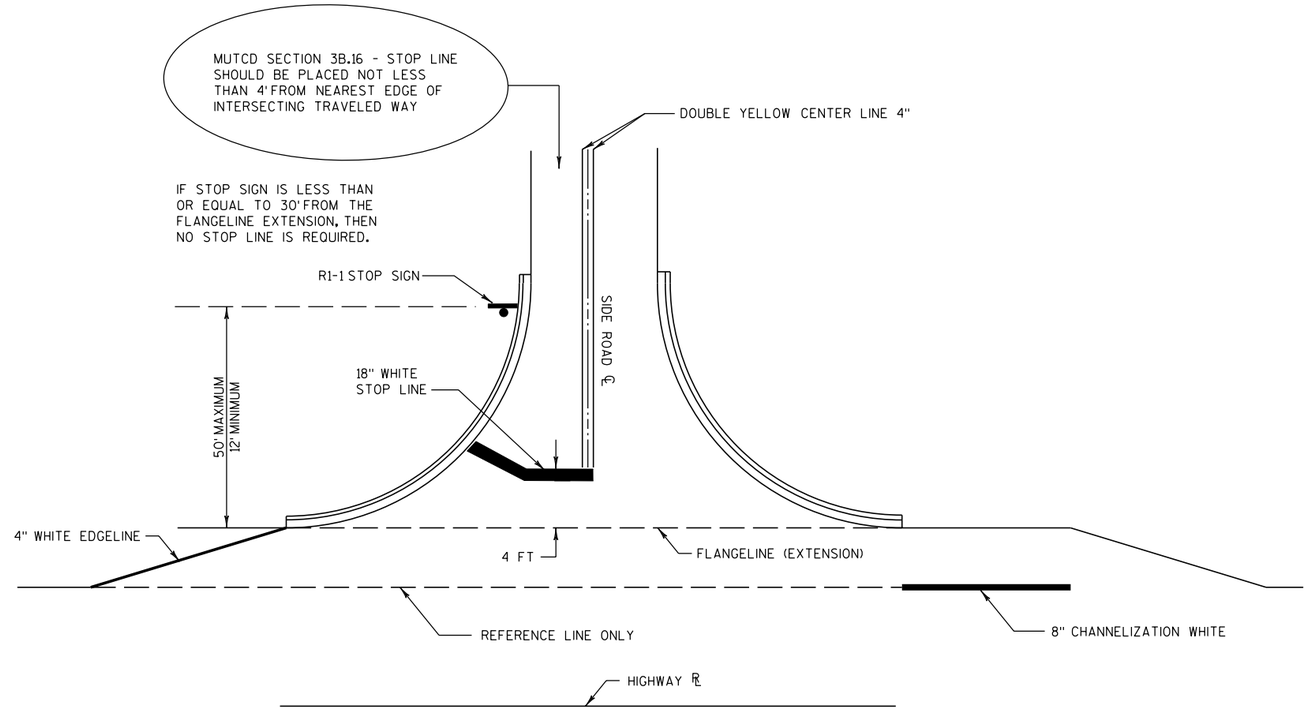
NOTE: USE 6 FT TRANSITION FOR CONCRETE AND ASPHALTIC CURB

100813

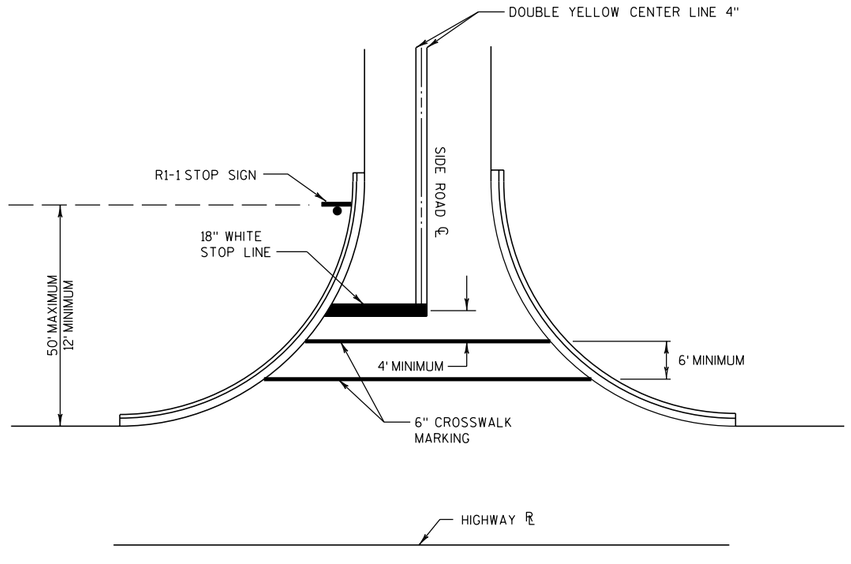
PROJECT NO: 1030-11-77/78	HWY: IH 94	COUNTY: RACINE	CONSTRUCTION DETAILS	SHEET 16	E



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

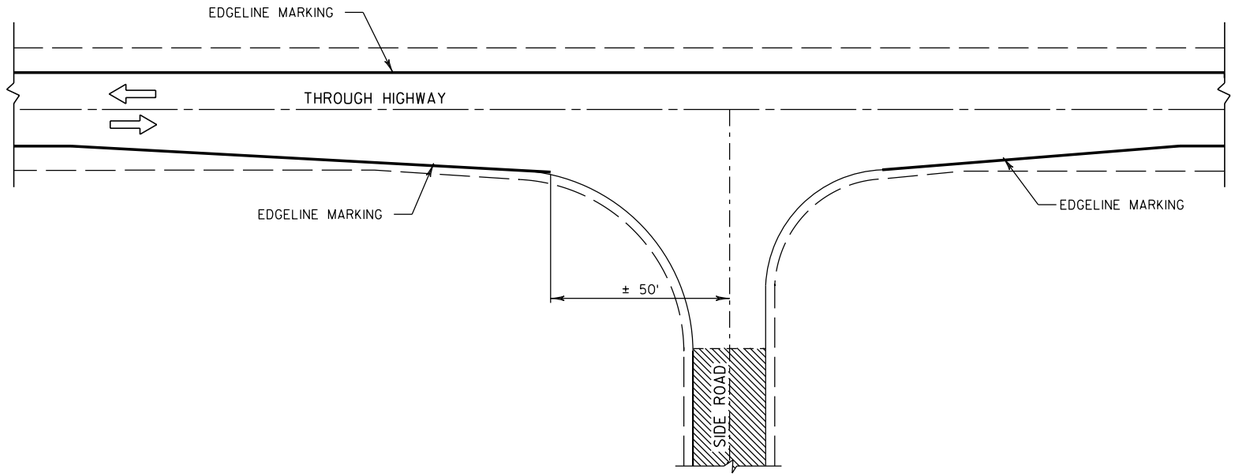
   B. LARGE RADII

   C. OFFSET LEFT TURNS WHERE STOP BAR FOR LEFT TURN IS SET BACK FROM THRU MOVEMENT

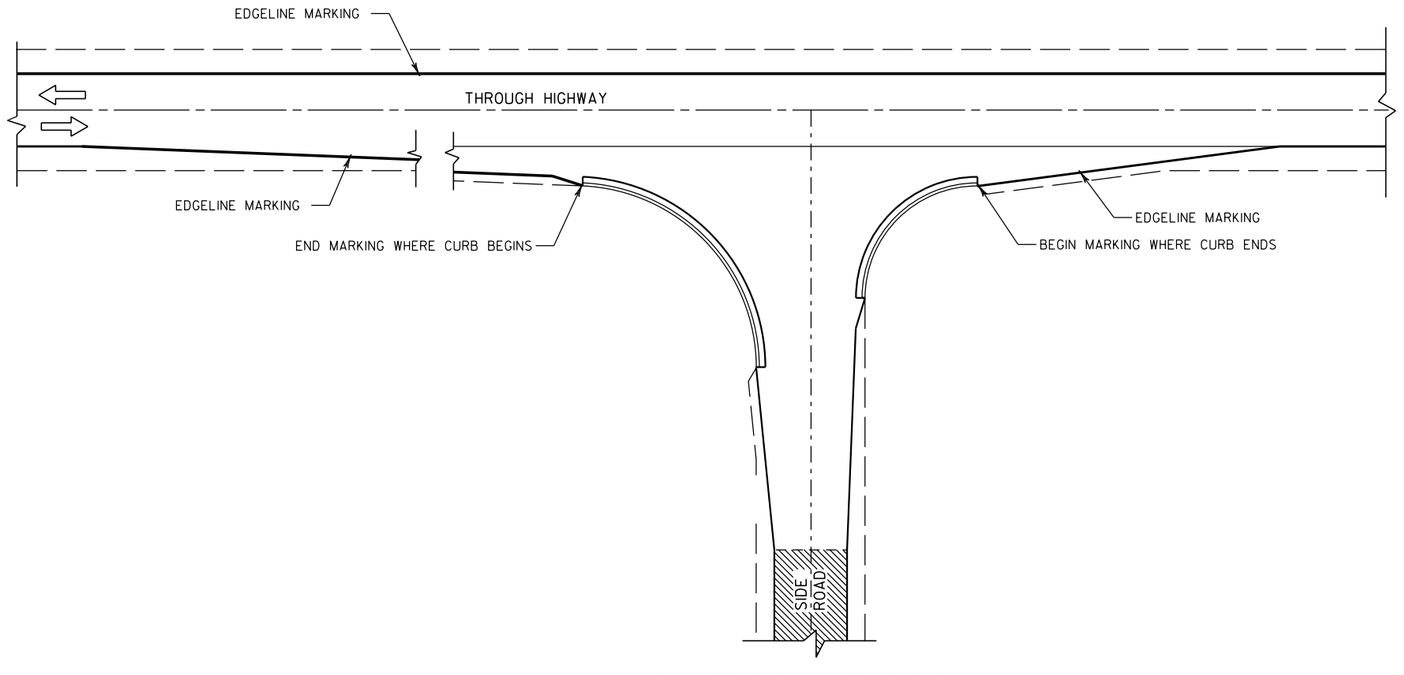
100818

PAVEMENT MARKING AT SIDEROADS

2



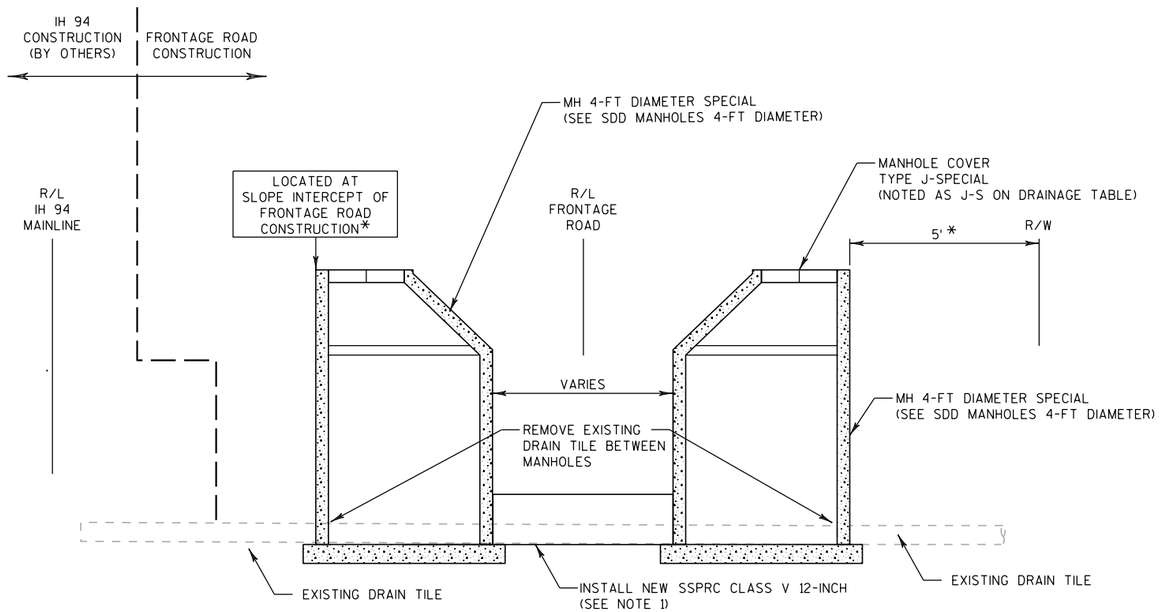
MINOR INTERSECTION WITHOUT CURBS
TYPICAL MARKING



MINOR INTERSECTION WITH CURBS
TYPICAL MARKING

MINOR INTERSECTION EDGELINE MARKING

100803



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

STAGING

1. FRONTAGE ROAD CONSTRUCTION:

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

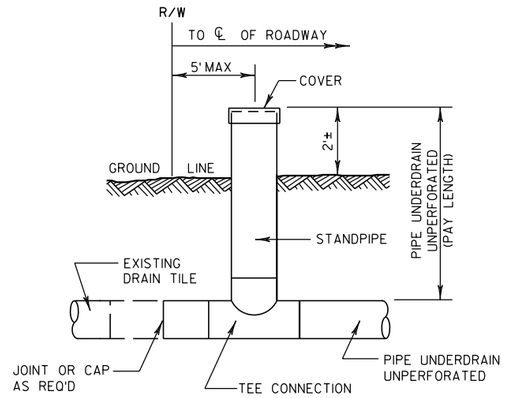
NOTES

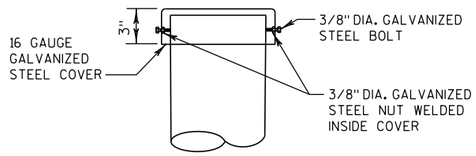
1. IF EXISTING DRAIN TILE IS LARGER THAN 12", MATCH THE EXISTING SIZE IN THE FIELD.
2. GRADING AT MANHOLES WITHIN THE CLEAR ZONE OF THE FRONTAGE ROADS AND MAINLINE IS TO BE FLUSH WITH TOP OF THE MANHOLE.

DRAIN TILE CONFIGURATION

(FOR FRONTAGE ROAD CROSSINGS)

120814 (MOD)





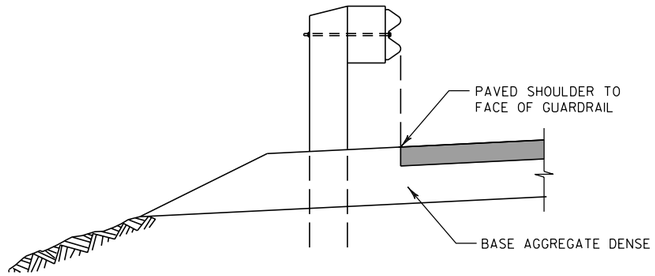
NOTE

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

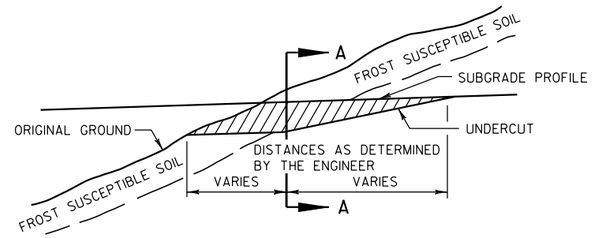
FOR DRAIN TILE

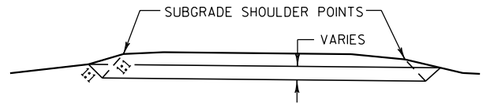
110311



PAVED SHOULDER AT GUARDRAIL

100818





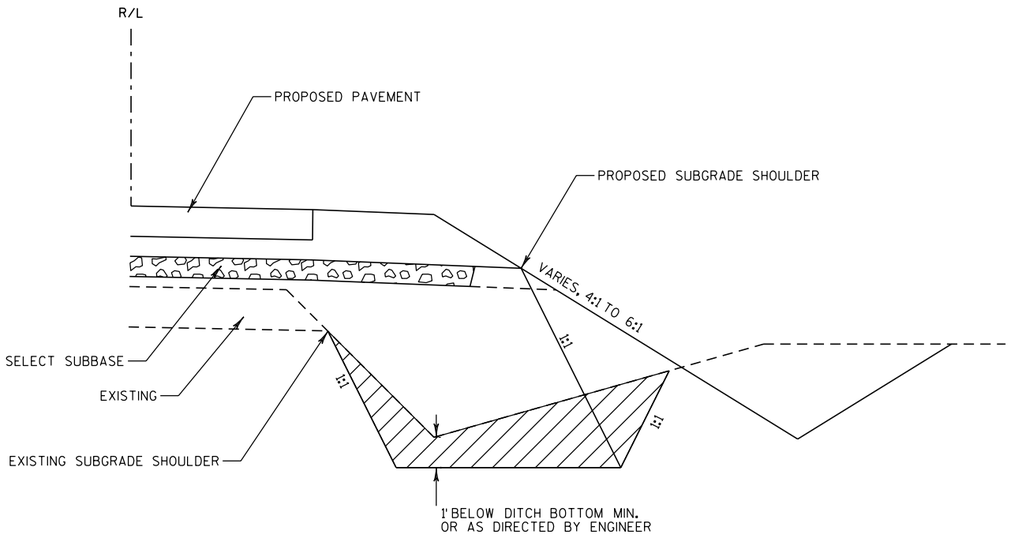
SECTION A-A
CROSS SECTION SHOWING UNDERCUT

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.

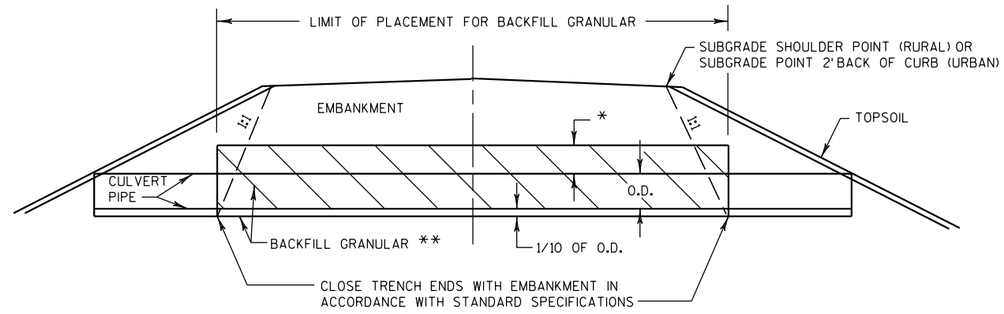
EXCAVATION BELOW SUBGRADE AT CUTS

100813



EBS AT DITCH FILLS AT FRONTAGE ROADS

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



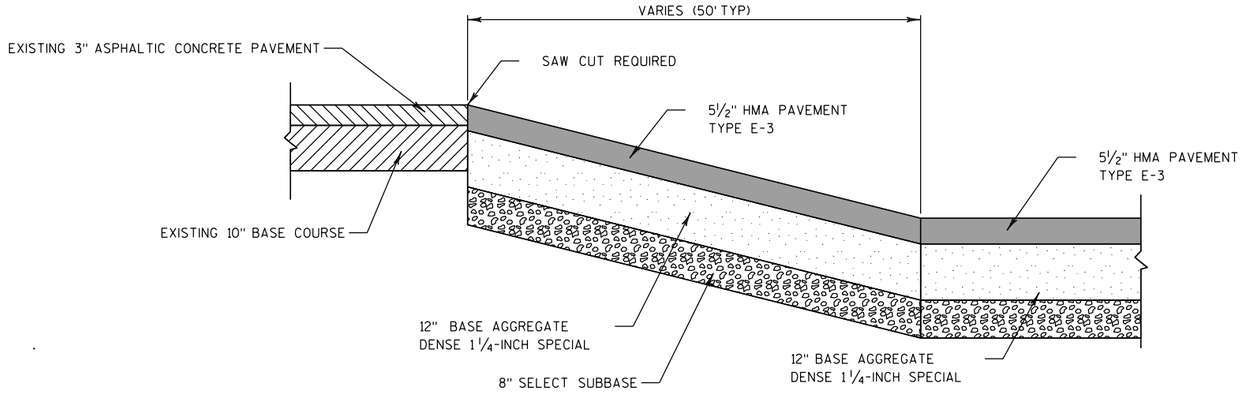
O.D. = OUTSIDE DIAMETER

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

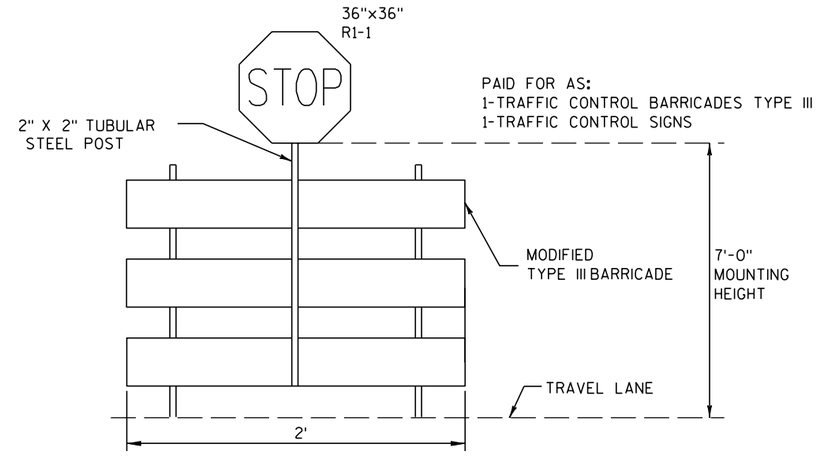
** INCIDENTAL TO CULVERT PIPE

CULVERT BACKFILL DETAIL

100813



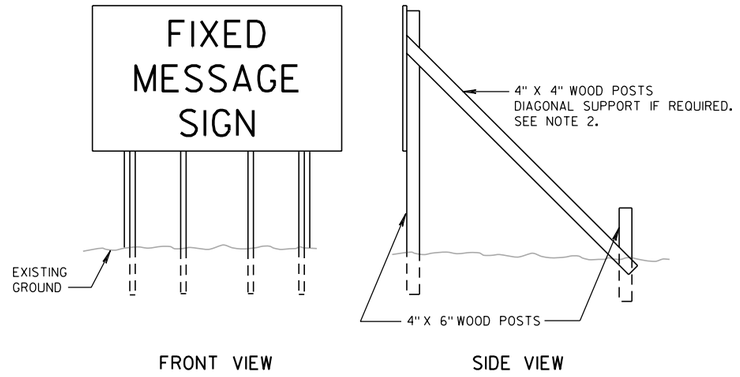
BUTT JOINT DETAIL
KRAUT ROAD
STA 47+81 - 48+31
STA 49+75 - 50+25



TEMPORARY STOP SIGN

PROJECT NO: 1030-11-77/78	HWY: IH 94	COUNTY: RACINE	CONSTRUCTION DETAILS	SHEET 22	E

2



NOTES

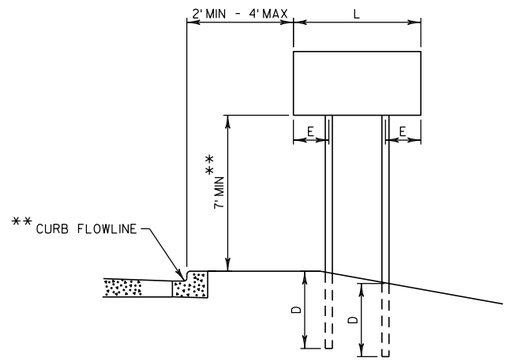
1. SEE TRAFFIC CONTROL SHEETS FOR SIGN LOCATIONS.

2. TWO DIAGONAL SUPPORTS TO BE INCLUDED FOR EACH SIGN OVER 12' LONG AND HIGHER THAN 8'. DIAGONAL SUPPORTS TO BE AFFIXED TO THE OUTSIDE SUPPORTS AND TO BE INCIDENTAL TO THE "TRAFFIC CONTROL FIXED MESSAGE SIGN" ITEM. IF DIAGONAL SUPPORTS ARE USED, SIGN TO BE SHIELDED BEHIND CONCRETE BARRIER OR PLACED OUTSIDE THE CLEAR ZONE.

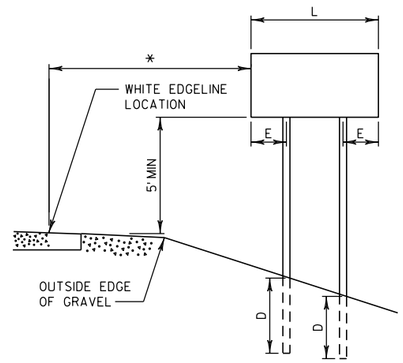
3. SEE TABLES BELOW FOR REQUIRED NUMBER OF POSTS.

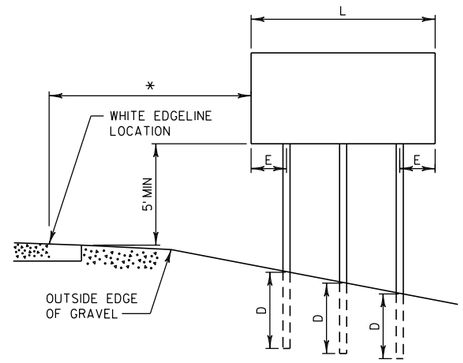
* 6' FROM EDGE OF A PAVED SHOULDER OR 12' FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) OR 2' FROM OUTSIDE EDGE OF GRAVEL, WHICHEVER IS GREATER UNLESS DIRECTED BY PROJECT ENGINEER. SEE NOTE 2 FOR OFFSET REQUIREMENTS WHERE DIAGONAL SUPPORTS ARE USED.

** THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY MEASURED WHERE THERE IS SIDEWALK ADJACENT TO THE ROADWAY OR PARKING IS PERMITTED. IN THE ABSENCE OF SIDEWALK, VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE CURB. IF NO SIDEWALK AND NO PARKING, VERTICAL CLEARANCE MAY BE REDUCED TO 5' MINIMUM. OFFSET OF SIGNS IS MEASURED FROM THE CURB FLOWLINE.



URBAN AREA





RURAL AREA

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"

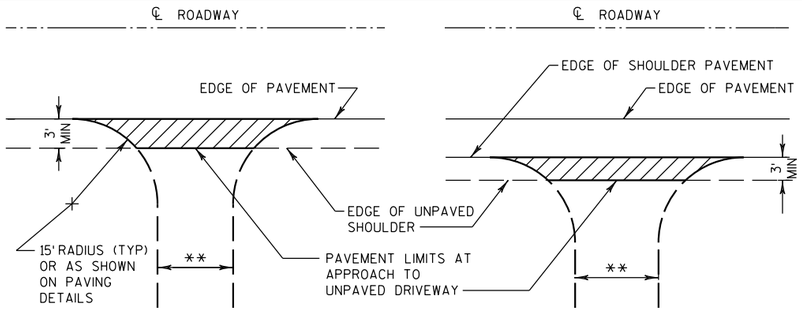
SIGN SHAPE OTHER THAN DIAMOND (FOUR POSTS REQUIRED)	
L	E
168" AND GREATER	12"

POST EMBEDMENT DEPTH

AREA OF SIGN INSTALLATION (SQ. FT.)	D (MIN)
20 OR LESS	4'
GREATER THAN 20	5'

POST MOUNTING DETAIL FOR TRAFFIC CONTROL FIXED MESSAGE SIGNS

110210

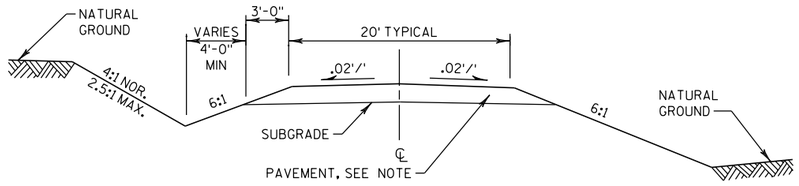


** SEE PAVING DETAILS FOR WIDTH REQUIRED.

PLAN VIEW

PLAN VIEW
(PAVED SHOULDER ON HIGHWAY)

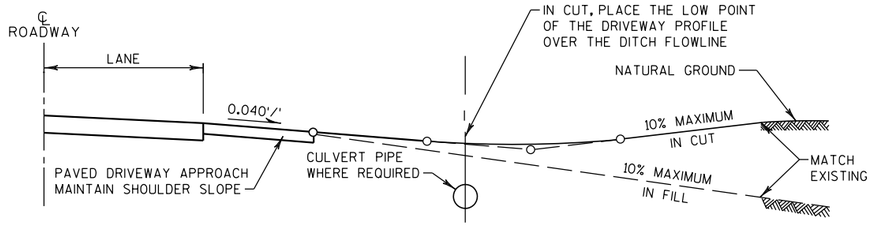
RURAL DRIVEWAY INTERSECTION



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 TYPE AND THICKNESS AS EXISTING WITH MINIMUM SECTION OF:

   ASPHALTIC SURFACE (3-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)

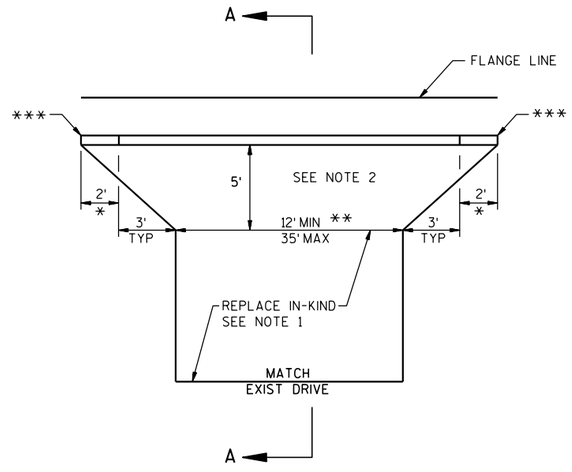
   OR

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

RURAL DRIVEWAY

110210

2



PLAN VIEW

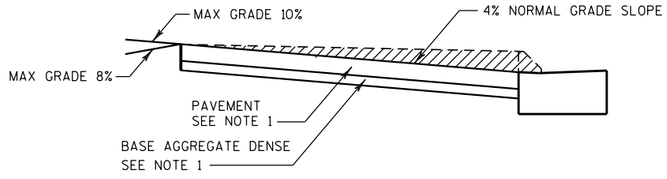
NOTES

1. DRIVEWAY SURFACE TO BE SAME TYPE AND THICKNESS AS EXISTING WITH MINIMUM SECTION OF:

   ASPHALTIC SURFACE (3-INCH) DRIVEWAYS AND FIELD ENTRANCES OVER BASE AGGREGATE DENSE $\frac{3}{4}$-INCH (4-INCH)
   OR
   BASE AGGREGATE DENSE $\frac{3}{4}$-INCH (6-INCH)

2. ALL URBAN DRIVEWAYS TO BACK OF APRON TO BE PAID FOR AS ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES UNLESS OTHERWISE DESIGNATED IN PLANS

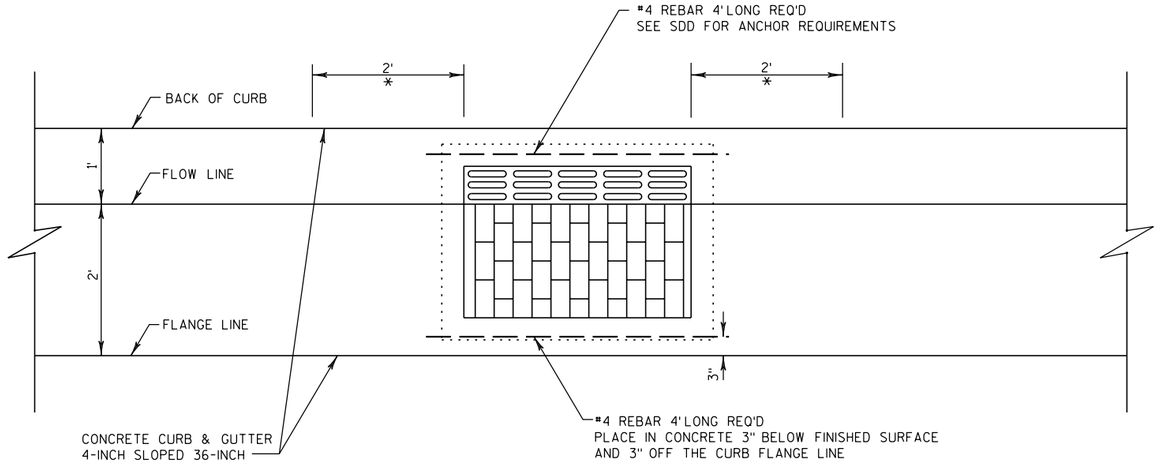
* TAPER CURB HEAD (1.5" TO 6")
** SEE PAVING DETAILS FOR WIDTH REQUIRED
*** STATION SHOWN ON PAVING DETAILS



110210(MOD)

SECTION A-A

URBAN DRIVEWAY



PLAN VIEW

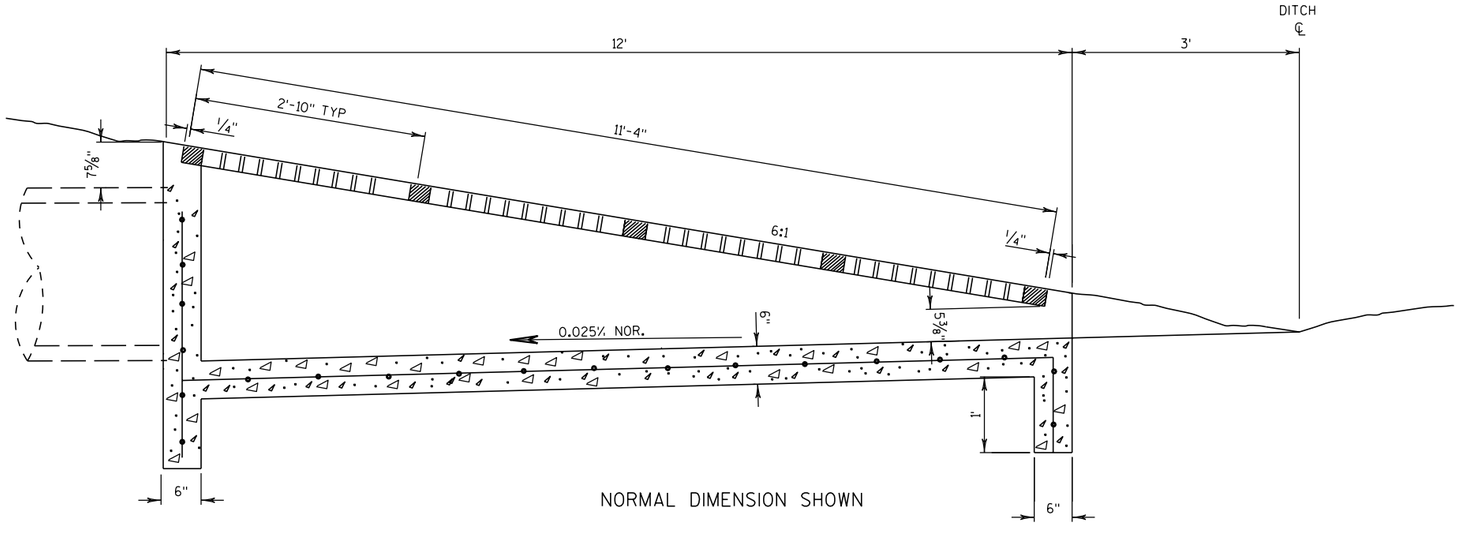
* TRANSITION STANDARD CURB HEAD TO MATCH THE TYPE HM INLET COVER.

NOTES

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

INLET COVERS, TYPE HM

100813



NORMAL DIMENSION SHOWN

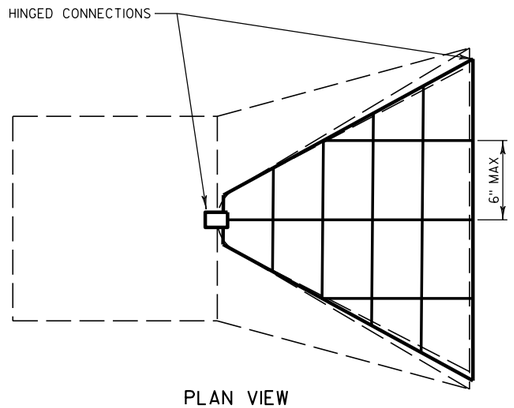
INLET MEDIAN 4 GRATE MODIFIED

CAST IN PLACE OR PRECAST DETAILS NOT SHOWN SHALL CONFORM TO STANDARD DETAIL DRAWING FOR INLETS, MEDIAN 1, 2, 3, 4 GRATE

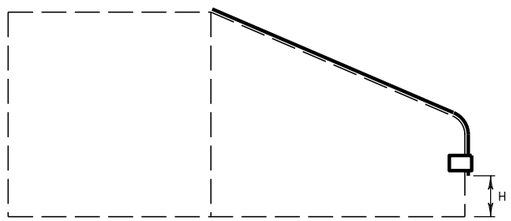
PROJECT NO: 1030-11-77/78	HWY: IH 94	COUNTY: RACINE	CONSTRUCTION DETAILS	SHEET 25	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\021001_cd.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:200

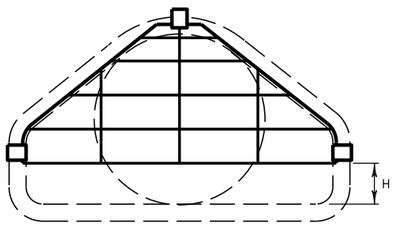
2



PLAN VIEW



SIDE VIEW



END VIEW

PIPE GRATE

100820

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"		

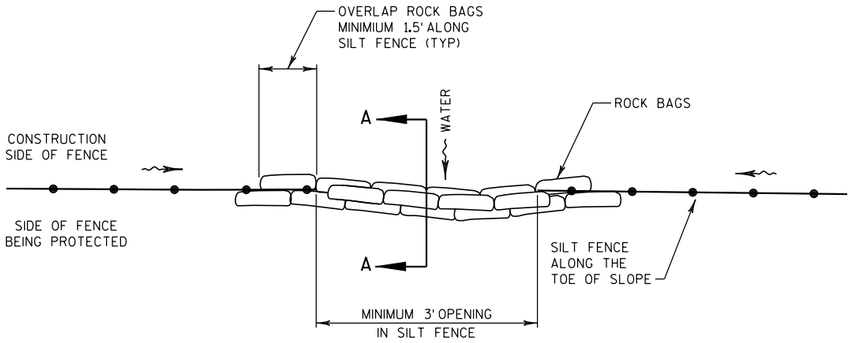
GRATE BAR SIZES

(STANDARD DESIGN)

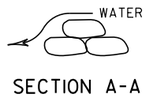
	PIPE SIZE	HOLE DIAMETER REQUIRED	BOLT DIAMETER	BAR SIZE
ROUND PIPE	12" - 24"	3/4"	5/8"	5/8"
	27" - 48"	7/8"	3/4"	3/4"
	54" - 90"	1 1/8"	1"	1"
ARCH PIPE	22" - 29"	3/4"	5/8"	5/8"
	36" - 59"	7/8"	3/4"	3/4"
	65" - 85"	1 1/8"	1"	1"

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

2

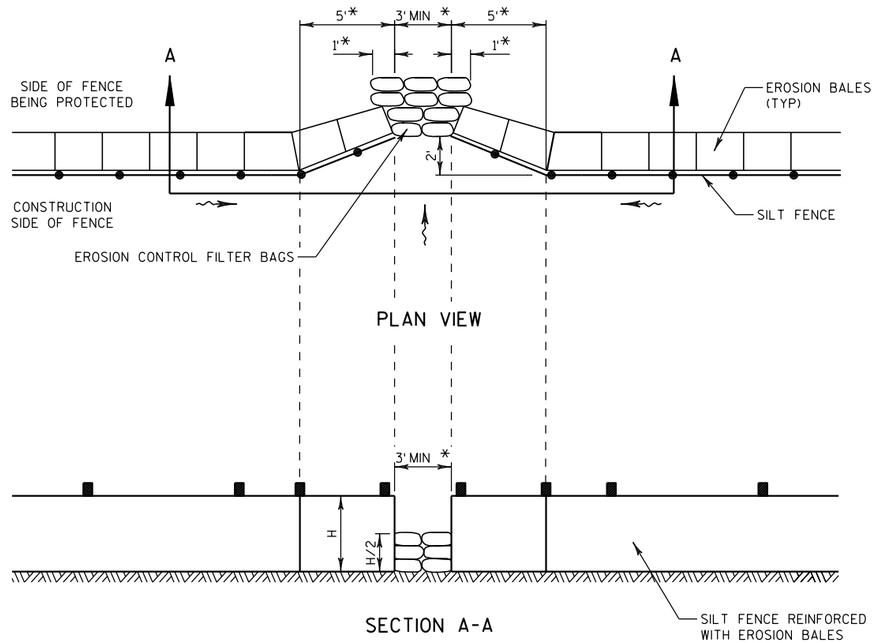


PLAN VIEW



SECTION A-A

SILT FENCE DRAINAGE OUTLET, ROCK BAGS



PLAN VIEW

SECTION A-A

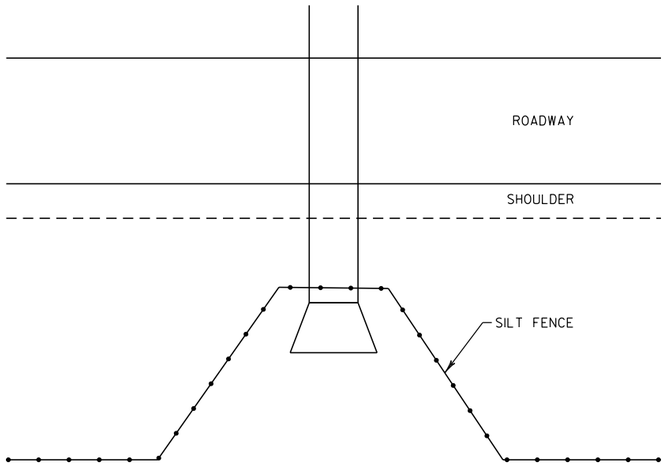
* DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS
AS DIRECTED BY THE ENGINEER.

SILT FENCE DRAINAGE OUTLET, EROSION CONTROL FILTER BAGS

(FOR USE IN ENVIRONMENTALLY SENSITIVE AREAS)

100903

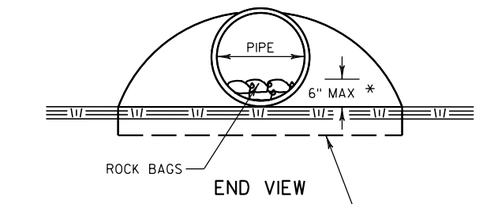
PROJECT NO: 1030-11-77/78	HWY: IH 94	COUNTY: RACINE	CONSTRUCTION DETAILS	SHEET 27	E



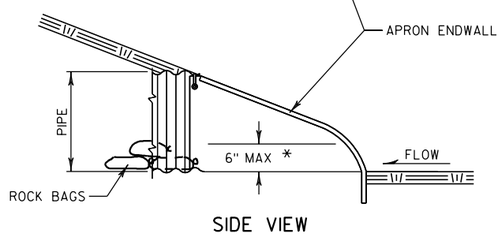
NOTE
SEE SILT FENCE SDD FOR ADDITIONAL INFORMATION.

100902

TYPICAL SILT FENCE DETAIL AT PIPE INLET



END VIEW

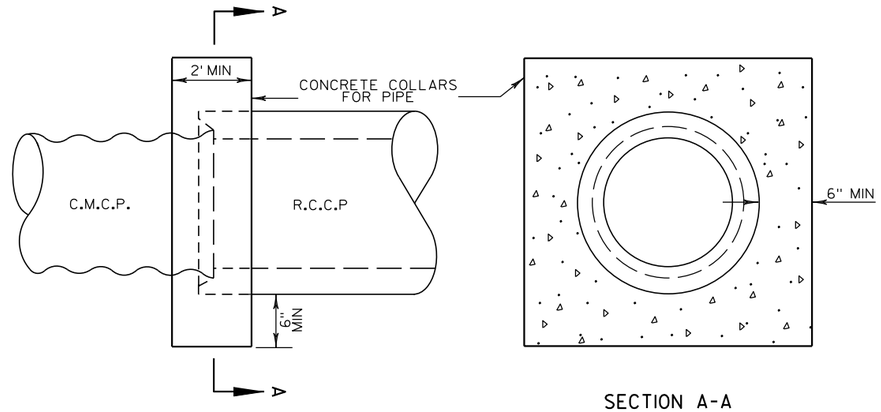


SIDE VIEW

* OR AS DIRECTED BY THE ENGINEER

CULVERT PIPE CHECK

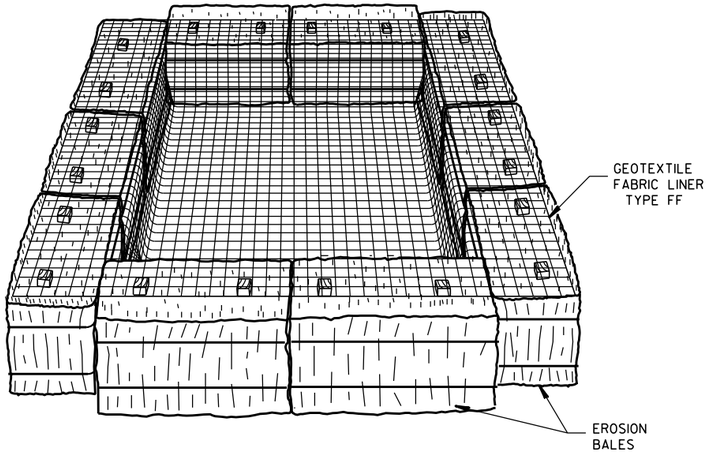
100813



SECTION A-A

CONNECTION DETAIL R.C.C.P. TO C.M.C.P.

100813



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.

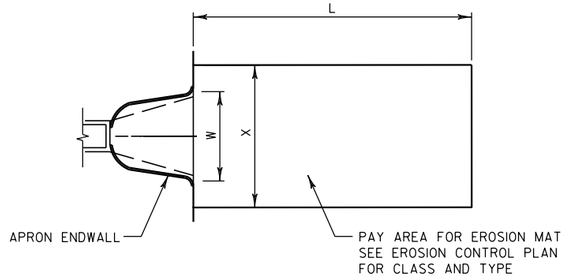
$\frac{800 \text{ C.F.}}{1.5 \text{ FT.}}$ = 533 S.F.

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



W = WIDTH OF APRON ENDWALL

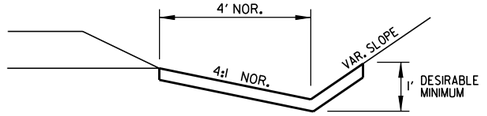
L = 3 x W (NORMAL) OR 10' (MINIMUM) OR
AS INDICATED IN THE PLANS OR
AS DIRECTED BY THE ENGINEER.

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

EROSION MAT TREATMENT AT CULVERTS

SEE EROSION CONTROL PLAN FOR LOCATIONS

100813



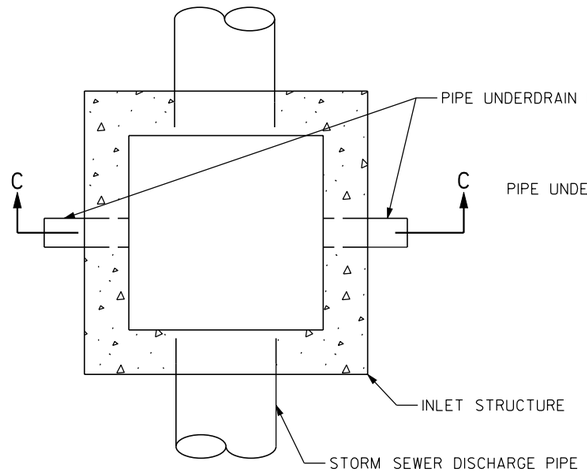
EROSION MAT DETAIL FOR DITCHES

081231

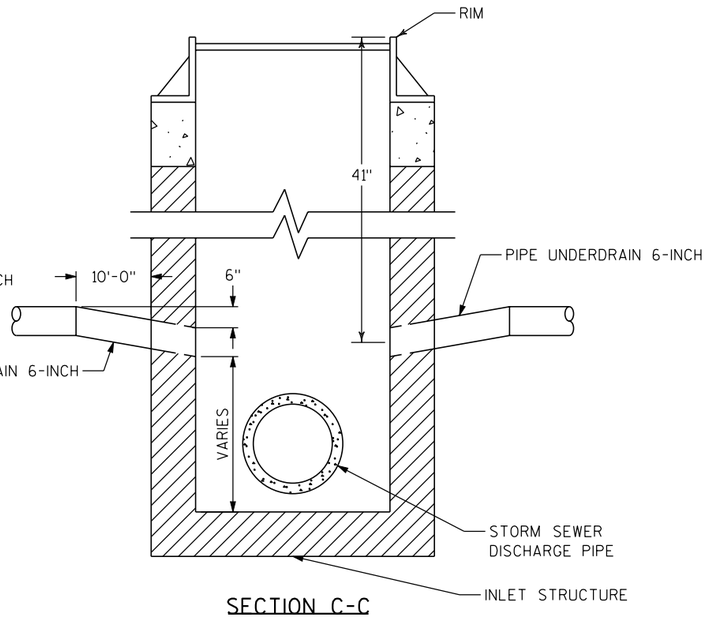
2

NOTES

1. CONNECTIONS TO INLETS OR MANHOLES SHALL USE PIPE UNDERDRAIN, 6-INCH.
2. PROVIDE TWO 6" DIA. OPENINGS FOR UNDERDRAIN PIPE A MINIMUM OF 41" BELOW THE RIM ELEVATION.



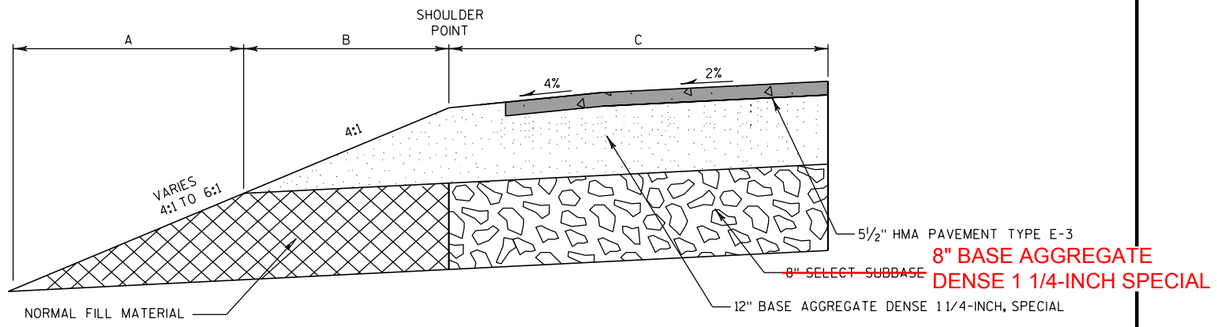
PLAN VIEW



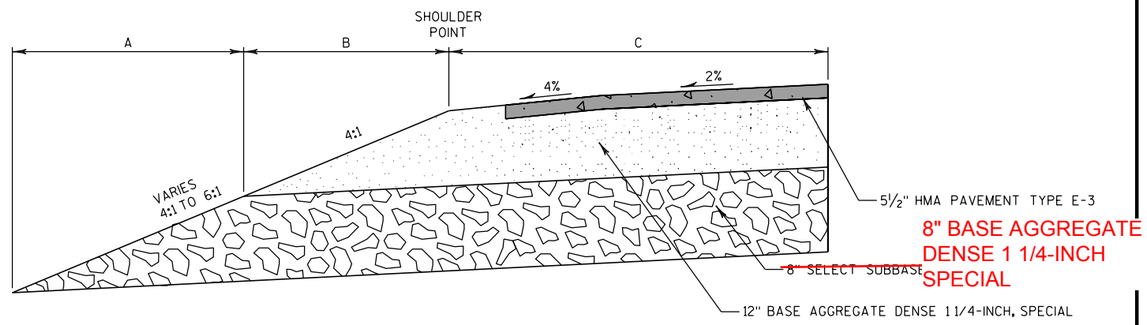
SECTION C-C

UNDERDRAIN OUTFALL AT INLET

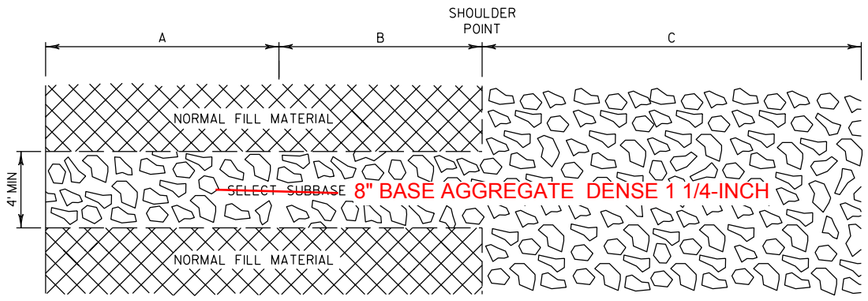
100514 (MOD)



TYPICAL HALF SECTION WITHOUT RELIEF TRENCH



TYPICAL HALF SECTION WITH RELIEF TRENCH



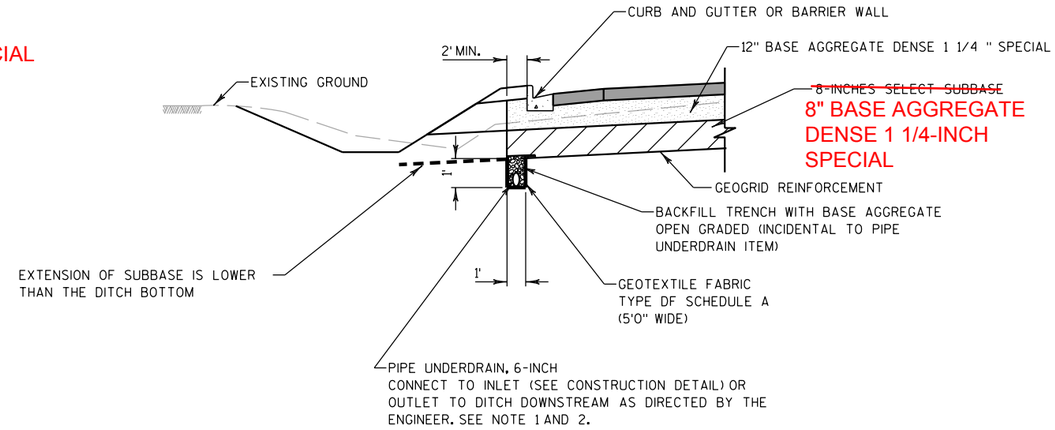
RELIEF TRENCH PLAN VIEW

RELIEF TRENCH

SEE PLAN DETAILS FOR RELIEF TRENCH LOCATIONS.

NOTE: EXCAVATION FOR RELIEF TRENCHES TO BE PAID UNDER THE ITEM EXCAVATION COMMON

110210(MOD)



PIPE UNDERDRAIN IN URBAN SECTIONS

SEE PLAN DETAILS FOR PIPE UNDERDRAIN LOCATIONS

NOTES:

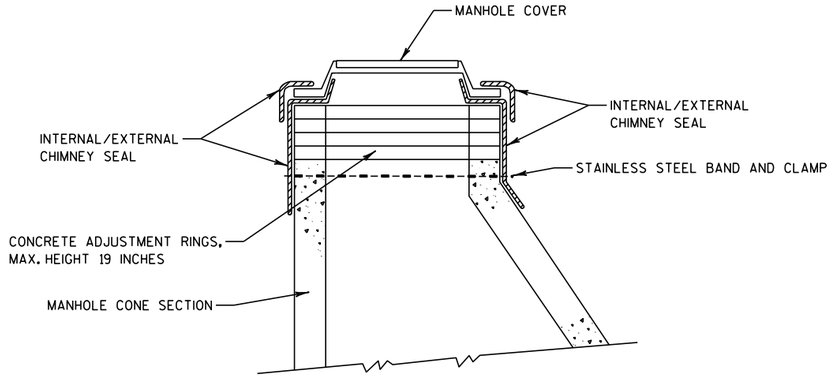
1. PIPE UNDERDRAIN UNPERFORATED REQUIRED AT LOCATIONS WHERE UNDERDRAIN IS REQUIRED TO CONNECT TO DITCHES OUTSIDE THE EBS AREA.

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

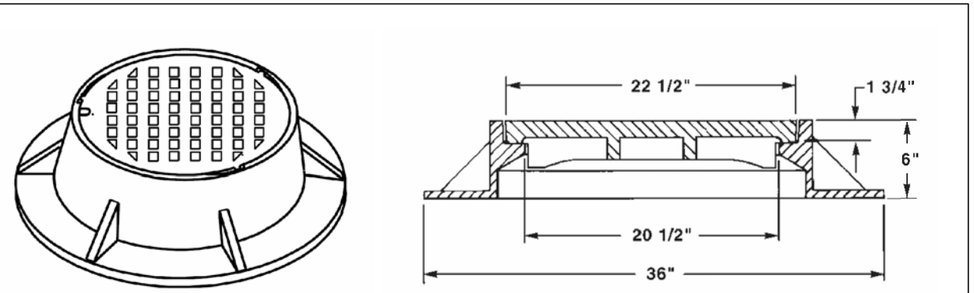
3. USE APRON ENDWALLS FOR UNDERDRAIN REINFORCED CONCRETE AT ALL DITCH OUTFALLS OF PIPE UNDERDRAIN.

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

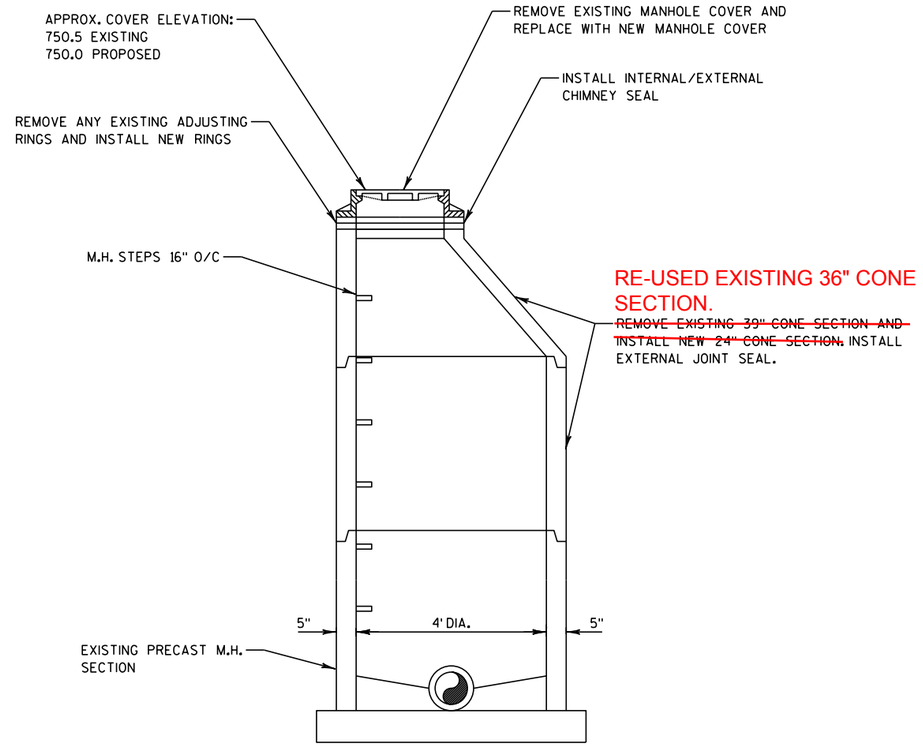
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INTERNAL/EXTERNAL CHIMNEY SEAL

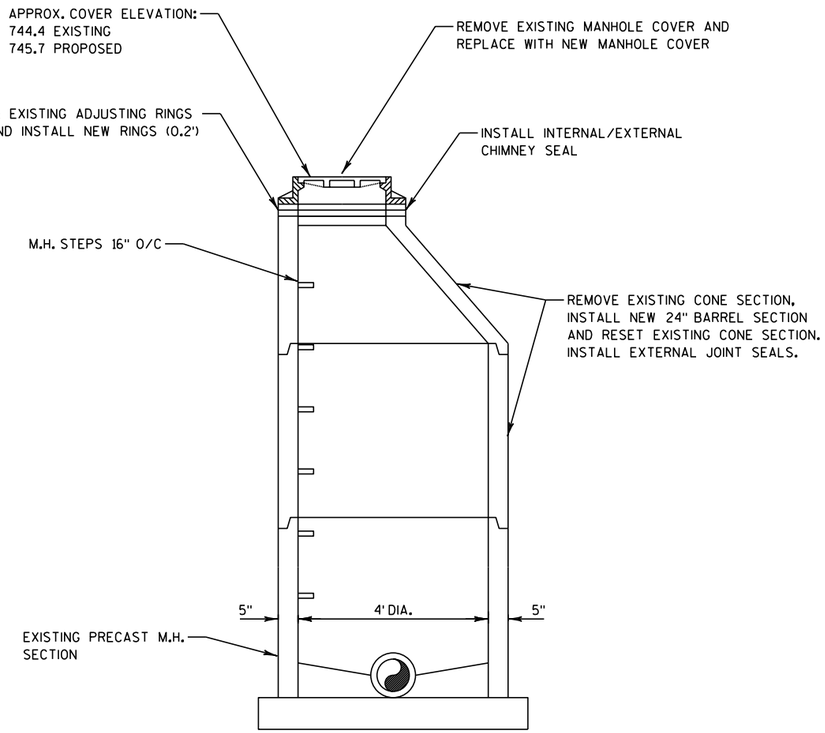


NEW MANHOLE COVERS



MANHOLE STA. 4897+10 LT

NOT TO SCALE



MANHOLE STA. 4900+89 LT

NOT TO SCALE

RECONSTRUCTING MANHOLE SPECIAL

(SEE SPECIAL PROVISIONS FOR MORE INFORMATION AND MATERIAL REQUIREMENTS)

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CONSTRUCTION DETAIL - WEST FRONTAGE ROAD	SHEET 32 HSL	E

2

IH 94 SB

IH 94 NB

892 894 896 898 900 902 904 906

BEGIN PROJECT 1030-11-77
STA 5897+00.00

EAST FRONTAGE ROAD

5896 5898 5900 5902 5904 5906 5908

MATCHLINE STA 5910+00

EXIST R/W

PROP R/W

TLE

PROP R/W

TLE

EXIST R/W

SLOPE INTERCEPT

R/L EAST FRONTAGE ROAD

W17-8
0.116 AC

LEGEND

X CLEARING AND GRUBBING (I.D.)

CLEARING AND GRUBBING (STA.)

PERMITTED WETLAND IMPACTS

IH 94 SB

IH 94 NB

908 910 912 914 916 918 920

MATCHLINE STA 5910+00

EAST FRONTAGE ROAD

5910 5912 5914 5916 5918 5920 5922 5924

MATCHLINE STA 5925+00

EXIST R/W

PROP R/W

SLOPE INTERCEPT

R/L EAST FRONTAGE ROAD

W17-11
0.264 AC

RIPRAP

RIPRAP

EXIST R/W

PROP R/W

TLE

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CLEARING & GRUBBING/WETLAND IMPACTS - EAST FRONTAGE ROAD	SHEET 33	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\021101_CG.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

2

KRAUT RD

IH 94 SB

IH 94 NB

922 924 926 928 930 932 934 936

EAST FRONTAGE ROAD

5926 5928 5930 5932 5934 5936 5938

MATCHLINE STA 5925+00

MATCHLINE STA 5940+00

EXIST R/W

PROP R/W

TLE

5927+04.94 EAST FRONTAGE ROAD =
50+56.00 KRAUT ROAD

END CONSTRUCTION
STA 52+20.00

R/L KRAUT ROAD

W17-11A
0.105 AC

RIPRAP

SIGN

938 940 942 944 946 948 950

EAST FRONTAGE ROAD

5942 5944 5946 5948 5950 5952 5954

MATCHLINE STA 5940+00

MATCHLINE STA 5955+00

SLOPE INTERCEPT

R/L EAST FRONTAGE ROAD

W17-7
0.094 AC

W17-7A
0.095 AC

LEGEND

X CLEARING AND GRUBBING (I.D.)

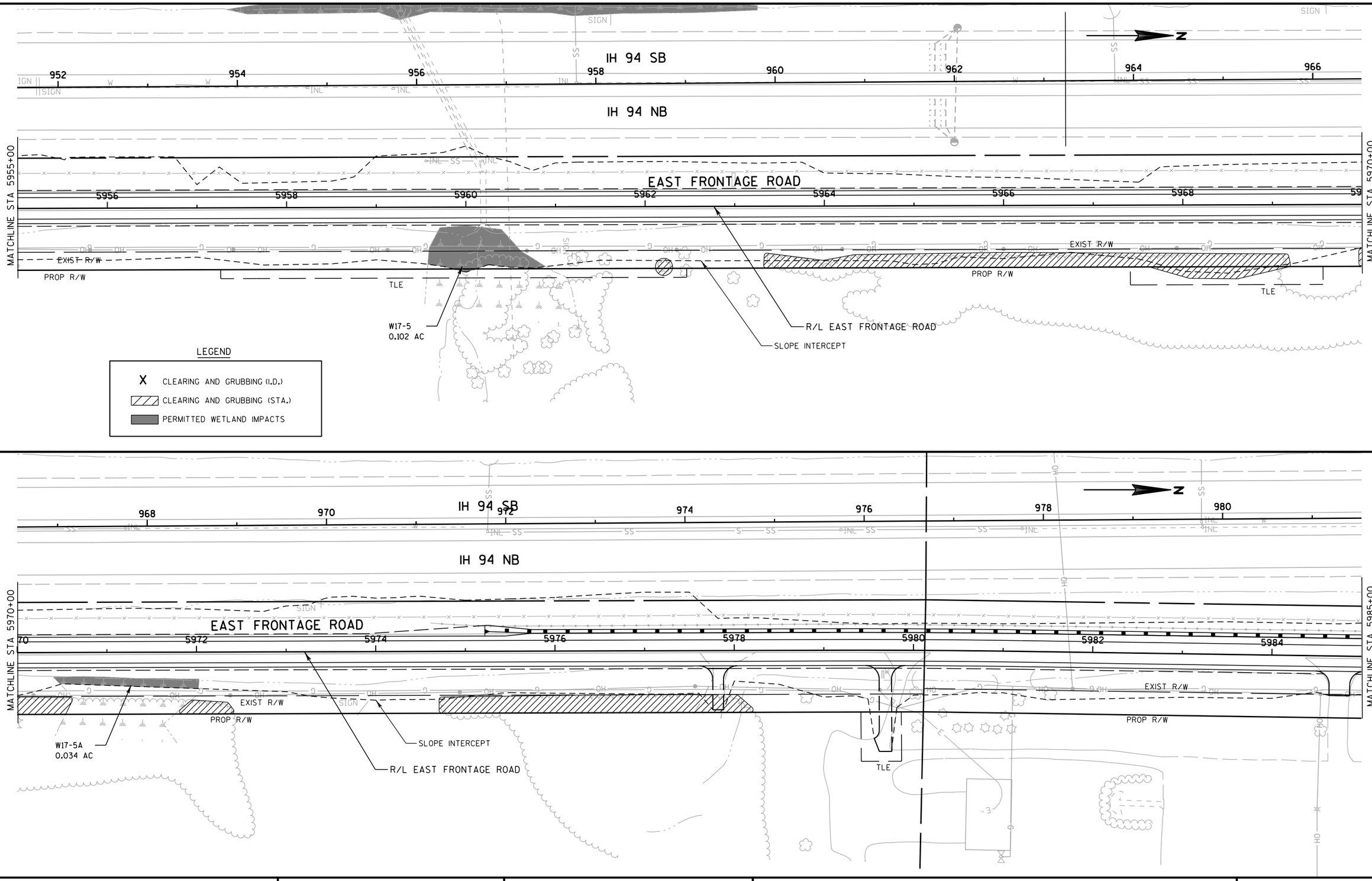
CLEARING AND GRUBBING (STA.)

PERMITTED WETLAND IMPACTS

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CLEARING & GRUBBING/WETLAND IMPACTS - EAST FRONTAGE ROAD	SHEET 34	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\021102_CG.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42



PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CLEARING & GRUBBING/WETLAND IMPACTS - EAST FRONTAGE ROAD	SHEET 35	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\021103_CG.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:100

2

IH 94 SB

IH 94 NB

982 984 986 988 990 992 994 996

MATCHLINE STA 5985+00

EAST FRONTAGE ROAD

5986 5988 5990 5992 5994 5996 5998 60

MATCHLINE STA 6000+00

EXIST R/W

PROP R/W

TLE

SLOPE INTERCEPT

R/L EAST FRONTAGE ROAD

SIGN

RIPRAP

LEGEND

X CLEARING AND GRUBBING (I.D.)

CLEARING AND GRUBBING (STA.)

PERMITTED WETLAND IMPACTS

998 1000 1002 1004 1006 1008 1010

COLF RD

MATCHLINE STA 5970+00

6002 6004 6006 3004 3006 3008 3010

MATCHLINE STA 3011+00

W16-2
0.181 AC

STATION EQUATION
STA 6006+38.72 BK =
STA 3002+94.33 AH =

R/L KRAUT ROAD

END CONSTRUCTION
STA 72+00.00

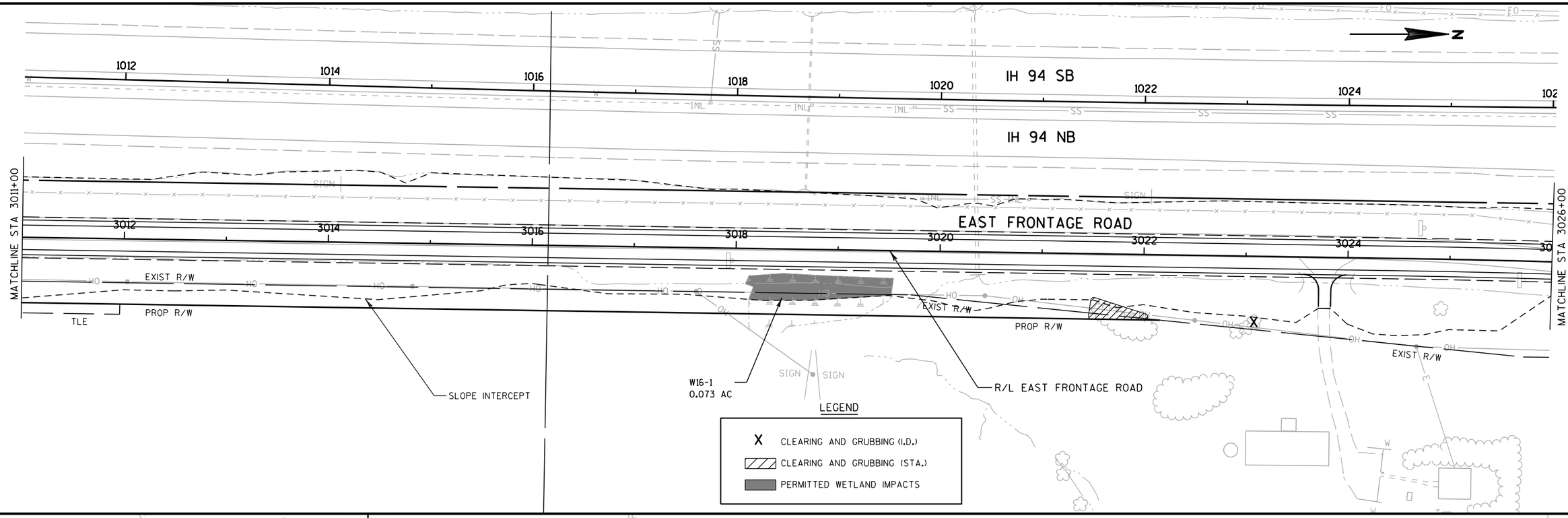
PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CLEARING & GRUBBING/WETLAND IMPACTS - EAST FRONTAGE ROAD	SHEET 36	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\021104_CG.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

10301177-00008RDAPERM

2



PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CLEARING & GRUBBING/WETLAND IMPACTS - EAST FRONTAGE ROAD	SHEET 37	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\021105_CG.dgn PLOT DATE : 9/21/2012 PLOT BY : bjw PLOT NAME : PLOT SCALE : 1:100

2

BEGIN PROJECT 1030-11-78
STA 4891+90.00

BEGIN CONSTRUCTION
STA 80+75.00

TLE

EXIST R/W

EVANS LANE

PROP R/W

R/L EVANS LANE

EXIST R/W

PROP R/W

R/L WEST FRONTAGE ROAD

SLOPE INTERCEPT

W17-9
0.297 AC

PROP R/W

EXIST R/W

MATCHLINE STA 4906+00

WEST FRONTAGE ROAD

IH 94 SB

IH 94 NB

4892 4894 4896 4898 4900 4902 4904

892 894 896 898 900 902 904

LEGEND

X CLEARING AND GRUBBING (I.D.)

CLEARING AND GRUBBING (STA.)

PERMITTED WETLAND IMPACTS

W17-10
0.342 AC

SLOPE INTERCEPT

R/L WEST FRONTAGE ROAD

TLE

PROP R/W

EXIST R/W

MATCHLINE STA 4906+00

MATCHLINE STA 4921+00

WEST FRONTAGE ROAD

IH 94 SB

IH 94 NB

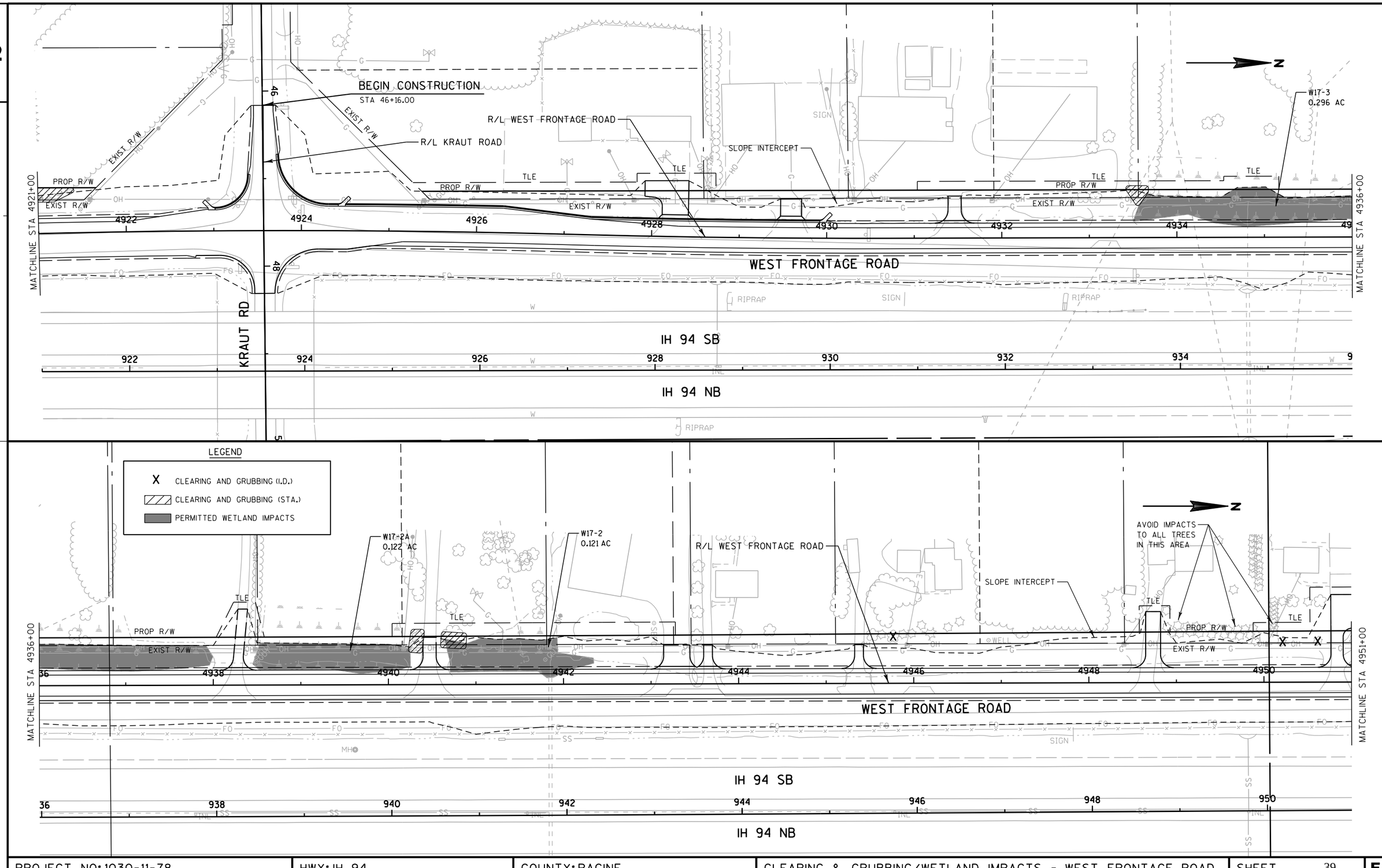
4908 4910 4912 4914 4916 4918 4920

908 910 912 914 916 918 920

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CLEARING & GRUBBING/WETLAND IMPACTS - WEST FRONTAGE ROAD	SHEET 38	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\021111_CG.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:100

2



PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CLEARING & GRUBBING/WETLAND IMPACTS - WEST FRONTAGE ROAD	SHEET 39	E

2

LEGEND

X CLEARING AND GRUBBING (I.D.)

CLEARING AND GRUBBING (STA.)

PERMITTED WETLAND IMPACTS

AVOID IMPACTS TO TREE

AVOID IMPACTS TO TREE

W17-6 0.066 AC

W17-6A 0.009 AC

W17-6B 0.030 AC

R/L WEST FRONTAGE ROAD

SLOPE INTERCEPT

TLE

PROP R/W

EXIST R/W

MATCHLINE STA 4951+00

MATCHLINE STA 4966+00

WEST FRONTAGE ROAD

IH 94 SB

IH 94 NB

BEGIN CONSTRUCTION STA 8+70.00

R/L 2 MILE ROAD

2 MILE ROAD

PROTECT TREES; GRADING REQ'D AROUND TREES

MATCHLINE STA 4966+00

MATCHLINE STA 4981+00

WEST FRONTAGE ROAD

IH 94 SB

IH 94 NB

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CLEARING & GRUBBING/WETLAND IMPACTS - WEST FRONTAGE ROAD	SHEET 40	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\021113_CG.dgn PLOT DATE : 9/21/2012 PLOT BY : bjw PLOT NAME : PLOT SCALE : 1:100

10301177-00008RDAPERM

2

LEGEND

X CLEARING AND GRUBBING (I.D.)

CLEARING AND GRUBBING (STA.)

PERMITTED WETLAND IMPACTS

R/L WEST FRONTAGE ROAD

SLOPE INTERCEPT

W16-3
0.016 AC
TOTAL

EXIST R/W

MATCHLINE STA 4981+00

MATCHLINE STA 4996+00

WEST FRONTAGE ROAD

IH 94 SB

IH 94 NB

RIPRAP

W16-3A
0.002 AC

W16-3
0.226 AC

PROP R/W

MATCHLINE STA 4996+00

MATCHLINE STA 5011+00

GOLF RD

R/L GOLF ROAD

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CLEARING & GRUBBING/WETLAND IMPACTS - WEST FRONTAGE ROAD	SHEET 41	E

2

2

AVOID IMPACTS TO TREE

AVOID IMPACTS TO TREES

TLE

PROP R/W

EXIST R/W

R/L WEST FRONTAGE ROAD

SLOPE INTERCEPT

MATCHLINE STA 5011+00

5012

5014

5016

5018

5020

WEST FRONTAGE ROAD

NICHOLAS RD

28

BEGIN CONSTRUCTION
STA 18+00.00

R/L NICHOLAS ROAD

STATION EQUATION
STA 5020+49.47 BK=
STA 2020+42.87 AH

2022

2024

MATCHLINE STA 2025+00

IH 94 SB

IH 94 NB

1012

1014

1016

1018

1020

1022

1024

N

LEGEND

X CLEARING AND GRUBBING (I.D.)

CLEARING AND GRUBBING (STA.)

PERMITTED WETLAND IMPACTS

3 MILE RD

30

BEGIN CONSTRUCTION
STA 27+25.00

R/L 3 MILE ROAD

END PROJECT 1030-11-78
STA 2030+25.00

MATCHLINE STA 2025+00

2026

2028

2030

2032

2034

2036

2038

2040

1026

1028

1030

1032

1034

1036

1038

1040

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CLEARING & GRUBBING/WETLAND IMPACTS - WEST FRONTAGE ROAD	SHEET 42	E

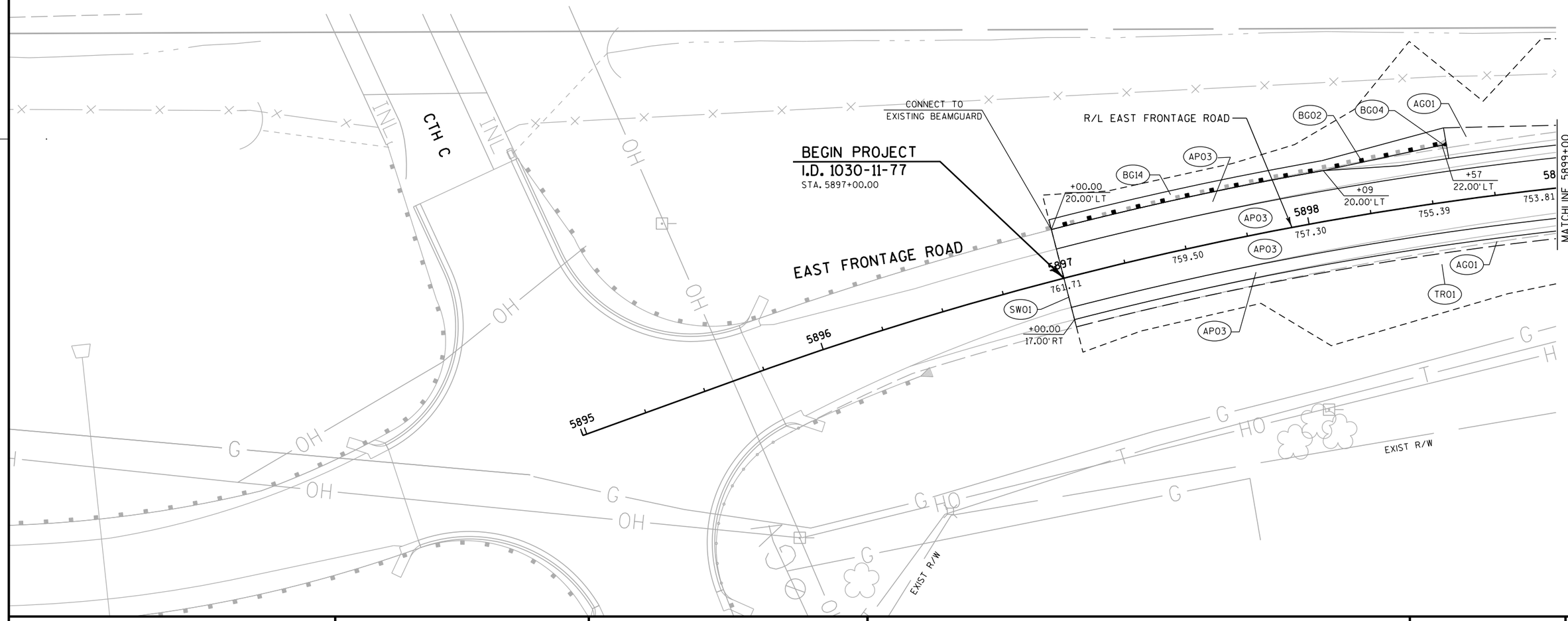
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WISDOT/CADDS SHEET 42

2

PAVEMENT DETAIL LEGEND

- (APO3) HMA PAVEMENT TYPE E-3, 5½-INCH
- (AGO1) BASE AGGREGATE DENSE ¾-INCH
- (PVO5) ASPHALTIC FLUME
- (CG18) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- (SWO1) SAWING ASPHALT
- (SWO2) SAWING CONCRETE
- (DRO3) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- (DRO4) AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE ¾-INCH, 6-INCH
- (DRO5) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 5-INCH
- (BGO2) MGS GUARDRAIL 3
- (BGO4) MGS GUARDRAIL TERMINAL EAT
- (BG12) STEEL THRIE BEAM
- (BG14) GUARD RAIL MOW STRIP ASPHALT
- (TRO1) RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- (PUO1) PIPE UNDERDRAIN 6-INCH
- (PUO2) PIPE UNDERDRAIN UNPERFORATED 6-INCH



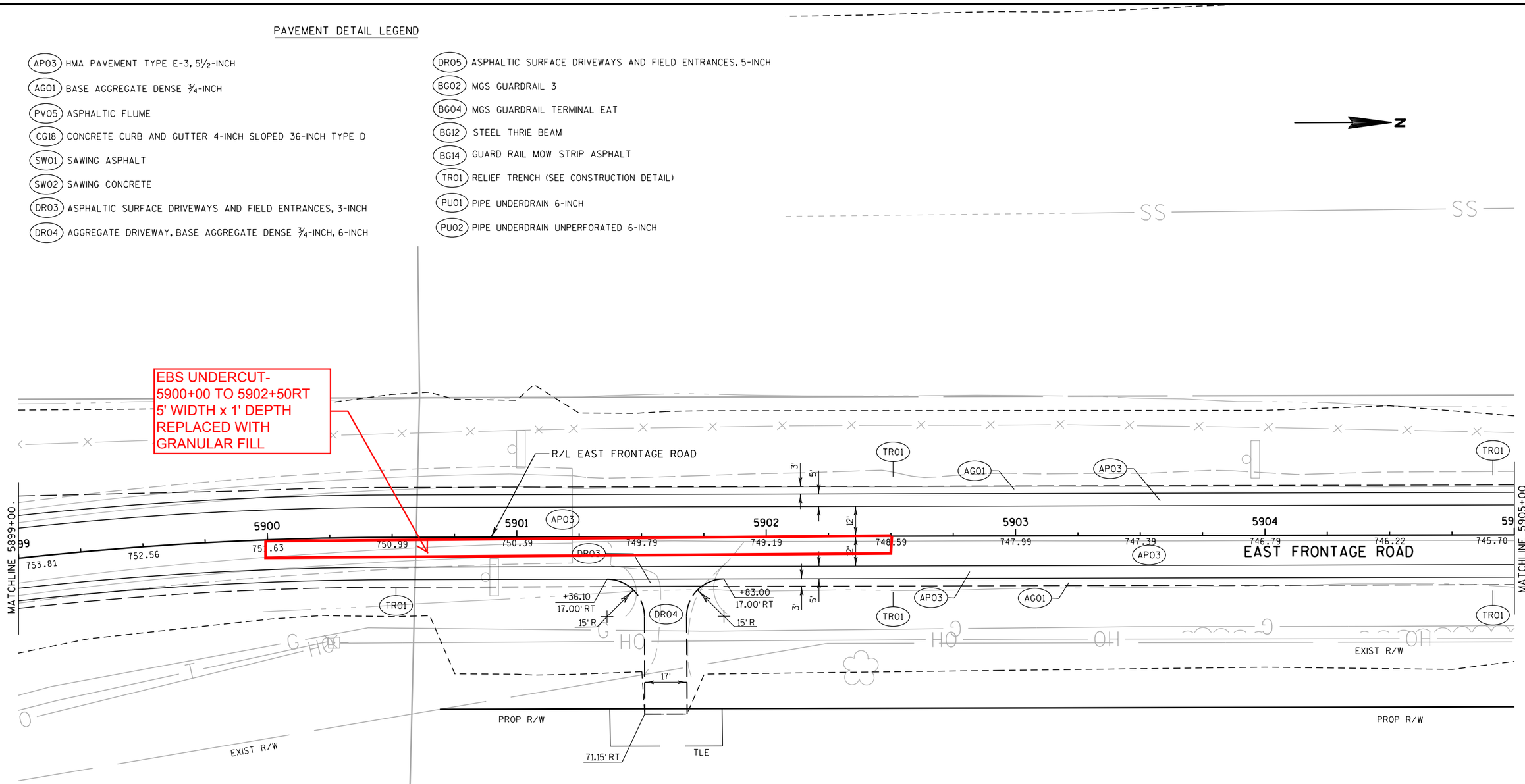
PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL - EAST FRONTAGE ROAD	SHEET 43	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\021200_pd.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : | PLOT SCALE : 1:40

2

PAVEMENT DETAIL LEGEND

- (AP03) HMA PAVEMENT TYPE E-3, 5½-INCH
- (AG01) BASE AGGREGATE DENSE ¾-INCH
- (PV05) ASPHALTIC FLUME
- (CG18) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- (SW01) SAWING ASPHALT
- (SW02) SAWING CONCRETE
- (DR03) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- (DR04) AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE ¾-INCH, 6-INCH
- (DR05) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 5-INCH
- (BG02) MGS GUARDRAIL 3
- (BG04) MGS GUARDRAIL TERMINAL EAT
- (BG12) STEEL THRIE BEAM
- (BG14) GUARD RAIL MOW STRIP ASPHALT
- (TR01) RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- (PU01) PIPE UNDERDRAIN 6-INCH
- (PU02) PIPE UNDERDRAIN UNPERFORATED 6-INCH



PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL - EAST FRONTAGE ROAD	SHEET 44	E

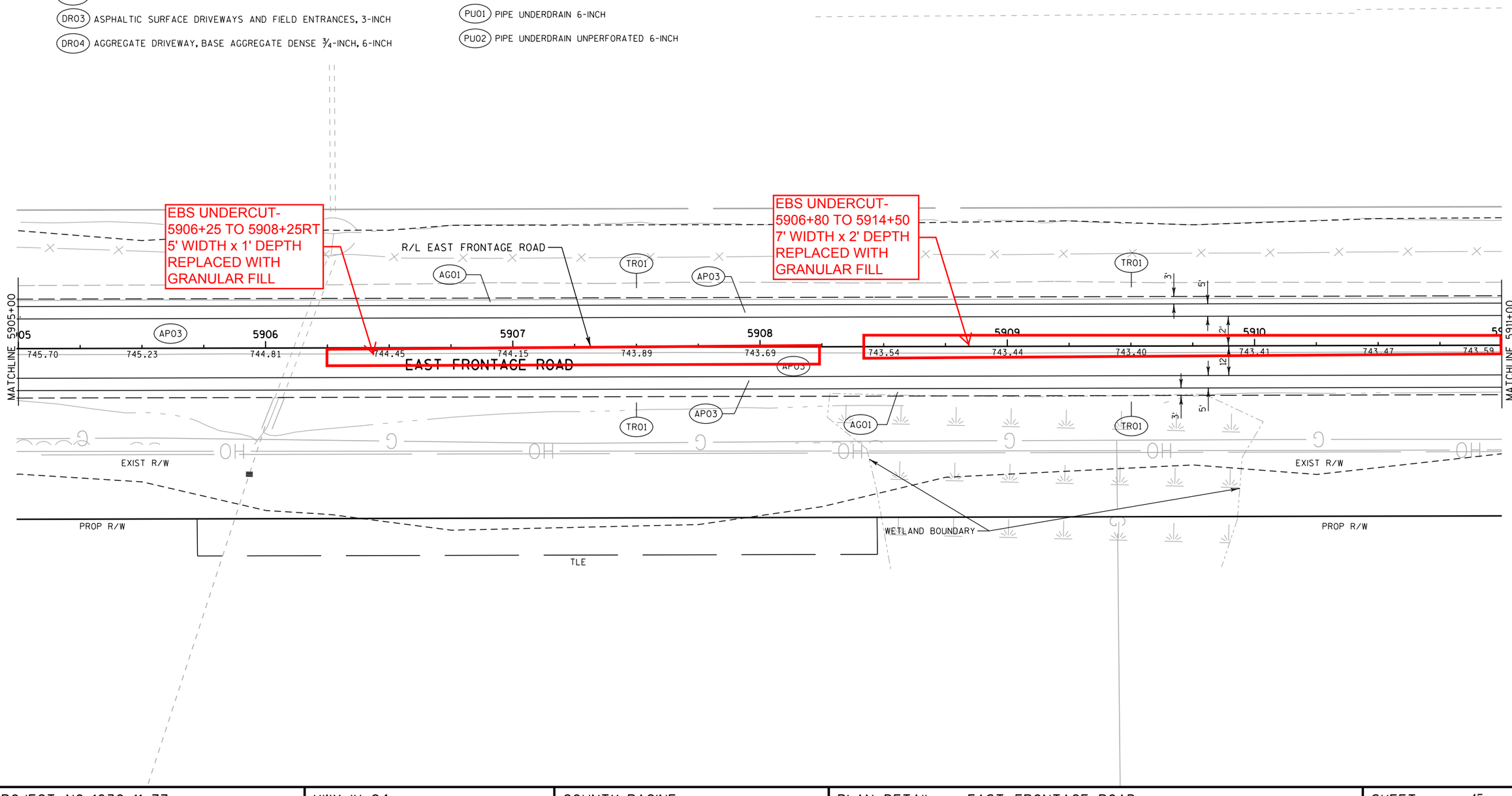
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WISDOT/CADDS SHEET 42

2

PAVEMENT DETAIL LEGEND

- (APO3) HMA PAVEMENT TYPE E-3, 5½-INCH
- (AGO1) BASE AGGREGATE DENSE ¾-INCH
- (PVO5) ASPHALTIC FLUME
- (CG18) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- (SWO1) SAWING ASPHALT
- (SWO2) SAWING CONCRETE
- (DRO3) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- (DRO4) AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE ¾-INCH, 6-INCH
- (DRO5) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 5-INCH
- (BGO2) MGS GUARDRAIL 3
- (BGO4) MGS GUARDRAIL TERMINAL EAT
- (BG12) STEEL THRIE BEAM
- (BG14) GUARD RAIL MOW STRIP ASPHALT
- (TRO1) RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- (PUO1) PIPE UNDERDRAIN 6-INCH
- (PUO2) PIPE UNDERDRAIN UNPERFORATED 6-INCH



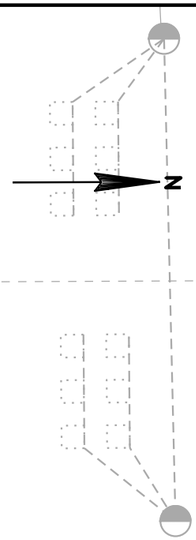
PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL - EAST FRONTAGE ROAD	SHEET 45	E

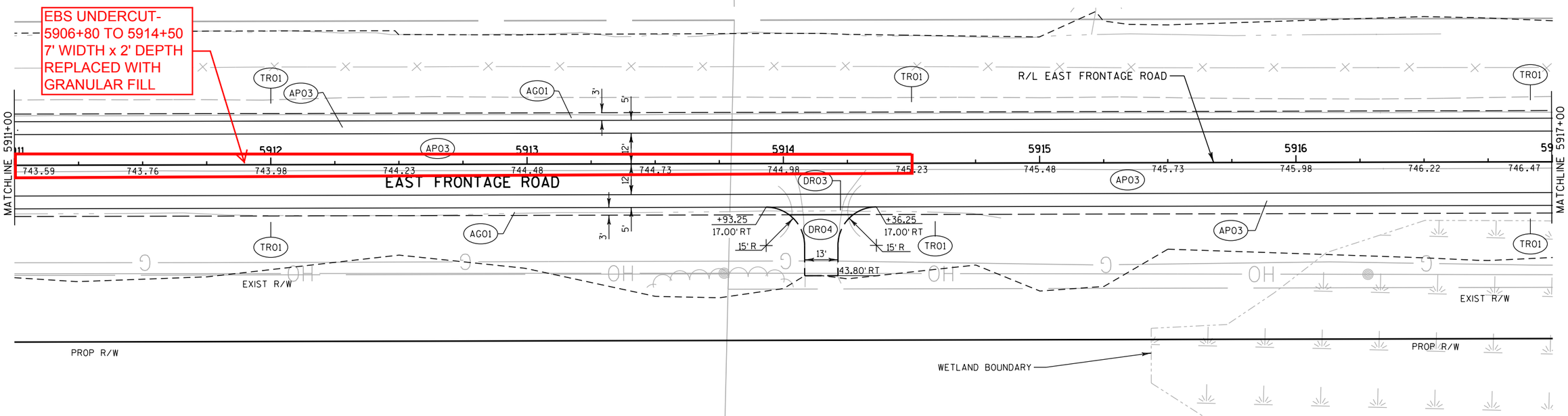
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2

PAVEMENT DETAIL LEGEND

- (AP03) HMA PAVEMENT TYPE E-3, 5½-INCH
- (AG01) BASE AGGREGATE DENSE ¾-INCH
- (PV05) ASPHALTIC FLUME
- (CG18) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- (SW01) SAWING ASPHALT
- (SW02) SAWING CONCRETE
- (DR03) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- (DR04) AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE ¾-INCH, 6-INCH
- (DR05) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 5-INCH
- (BG02) MGS GUARDRAIL 3
- (BG04) MGS GUARDRAIL TERMINAL EAT
- (BG12) STEEL THRIE BEAM
- (BG14) GUARD RAIL MOW STRIP ASPHALT
- (TR01) RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- (PU01) PIPE UNDERDRAIN 6-INCH
- (PU02) PIPE UNDERDRAIN UNPERFORATED 6-INCH





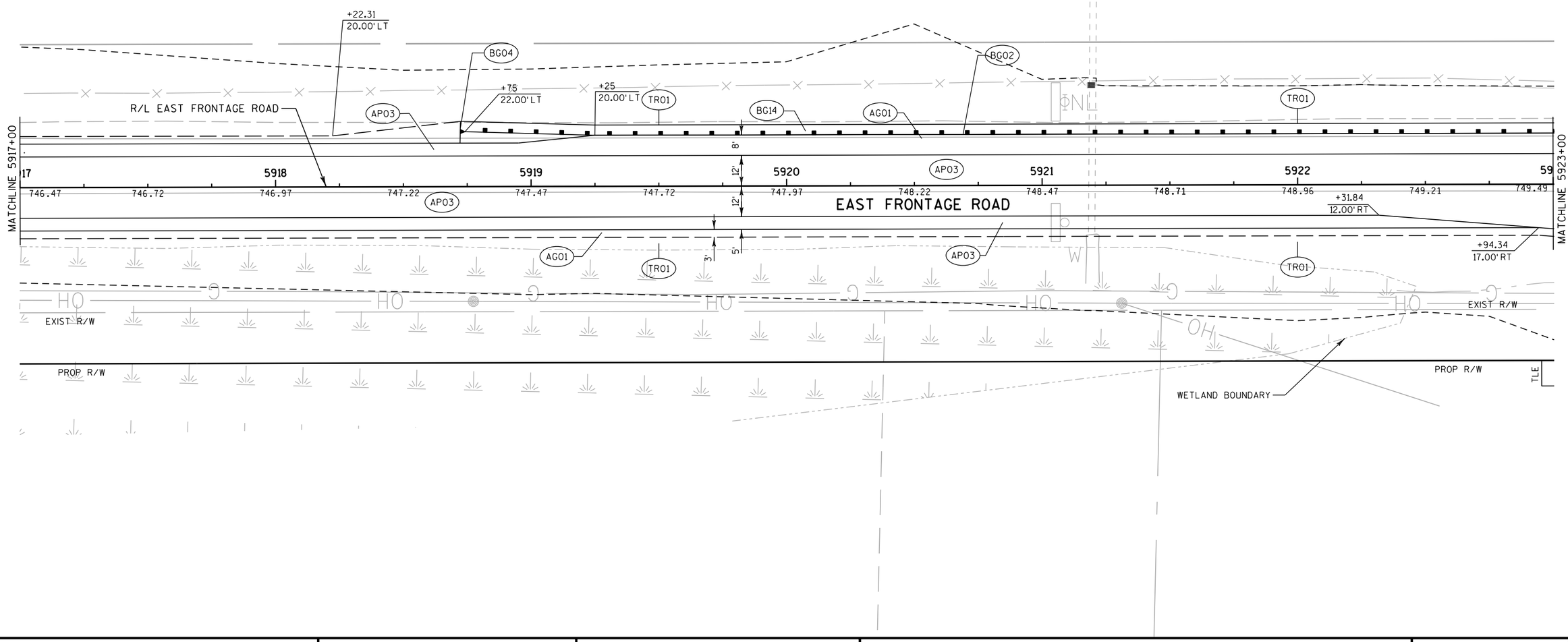
PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL - EAST FRONTAGE ROAD	SHEET 46	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\021203_pd.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : | PLOT SCALE : 1:40

2

PAVEMENT DETAIL LEGEND

- APO3 HMA PAVEMENT TYPE E-3, 5½-INCH
- AGO1 BASE AGGREGATE DENSE ¾-INCH
- PVO5 ASPHALTIC FLUME
- CG18 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- SWO1 SAWING ASPHALT
- SWO2 SAWING CONCRETE
- DRO3 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- DRO4 AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE ¾-INCH, 6-INCH
- DRO5 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 5-INCH
- BGO2 MGS GUARDRAIL 3
- BGO4 MGS GUARDRAIL TERMINAL EAT
- BG12 STEEL THRIE BEAM
- BG14 GUARD RAIL MOW STRIP ASPHALT
- TRO1 RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- PU01 PIPE UNDERDRAIN 6-INCH
- PU02 PIPE UNDERDRAIN UNPERFORATED 6-INCH



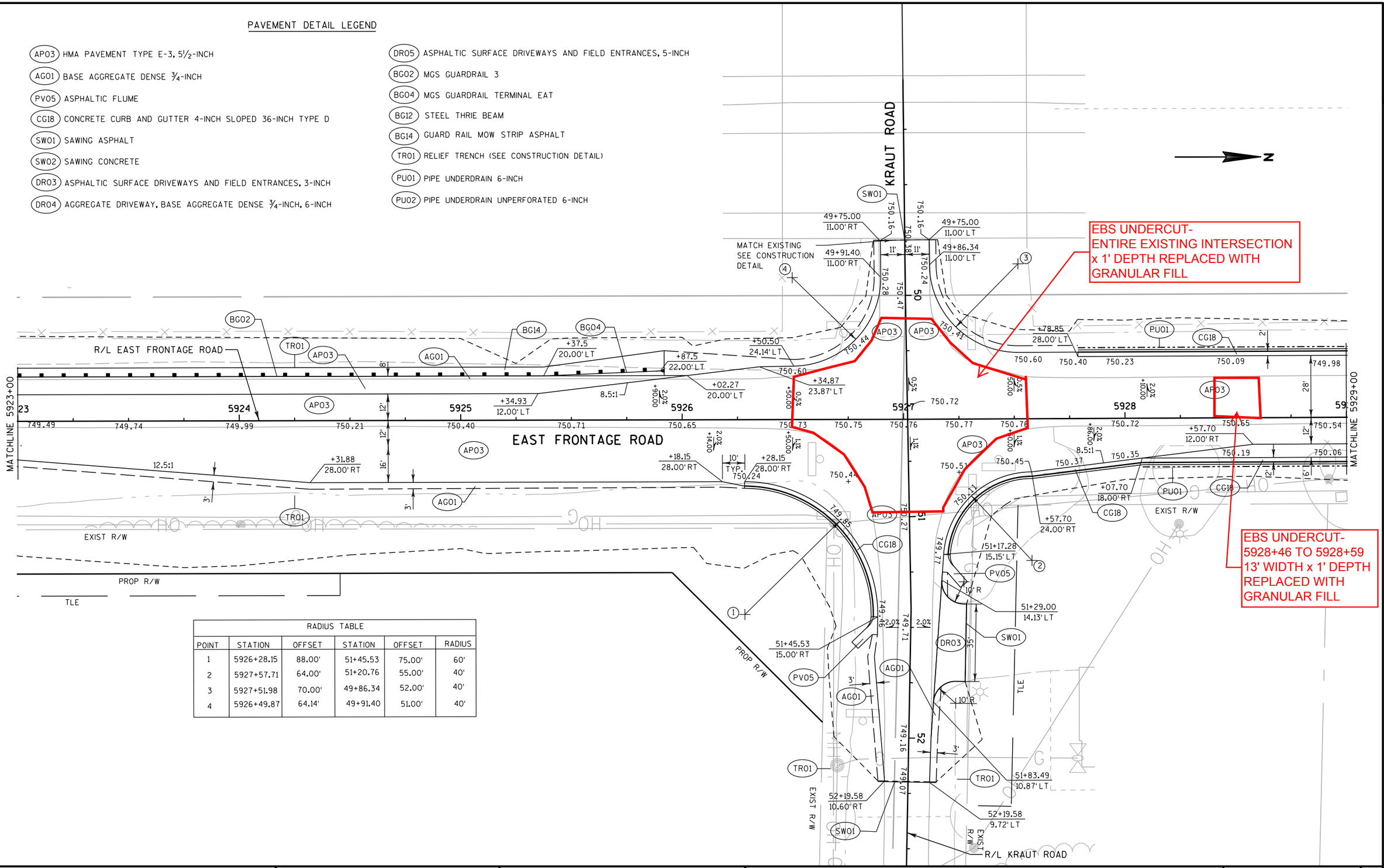
PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL - EAST FRONTAGE ROAD	SHEET 47	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\021204_pd.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:40

2

PAVEMENT DETAIL LEGEND

- APO3 HMA PAVEMENT TYPE E-3, 5½-INCH
- AGO1 BASE AGGREGATE DENSE ¾-INCH
- PVO5 ASPHALTIC FLUME
- CG18 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- SWO1 SAWING ASPHALT
- SWO2 SAWING CONCRETE
- DRO3 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- DRO4 AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE ¾-INCH, 6-INCH
- DRO5 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 5-INCH
- BGO2 MGS GUARDRAIL 3
- BGO4 MGS GUARDRAIL TERMINAL EAT
- BG12 STEEL THRIE BEAM
- BG14 GUARD RAIL MOW STRIP ASPHALT
- TRO1 RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- PUO1 PIPE UNDERDRAIN 6-INCH
- PUO2 PIPE UNDERDRAIN UNPERFORATED 6-INCH



RADIUS TABLE					
POINT	STATION	OFFSET	STATION	OFFSET	RADIUS
1	5926+28.15	88.00'	51+45.53	75.00'	60'
2	5927+57.71	64.00'	51+20.76	55.00'	40'
3	5927+51.98	70.00'	49+86.34	52.00'	40'
4	5926+49.87	64.14'	49+91.40	51.00'	40'

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL - EAST FRONTAGE ROAD	SHEET 48	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\021205_pd.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : | PLOT SCALE : 1:40

2

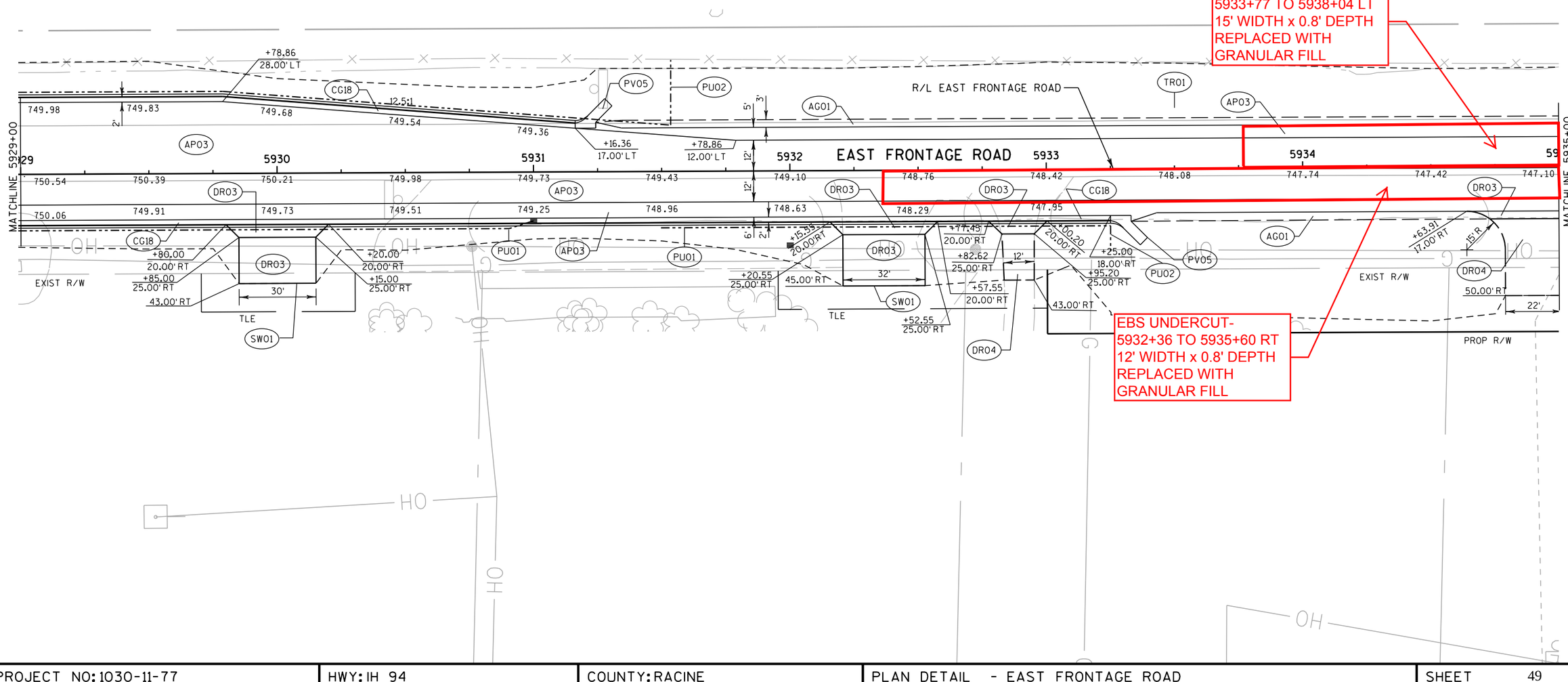
PAVEMENT DETAIL LEGEND

- (AP03) HMA PAVEMENT TYPE E-3, 5½-INCH
- (AG01) BASE AGGREGATE DENSE ¾-INCH
- (PV05) ASPHALTIC FLUME
- (CG18) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- (SW01) SAWING ASPHALT
- (SW02) SAWING CONCRETE
- (DR03) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- (DR04) AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE ¾-INCH, 6-INCH
- (DR05) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 5-INCH
- (BG02) MGS GUARDRAIL 3
- (BG04) MGS GUARDRAIL TERMINAL EAT
- (BG12) STEEL THRIE BEAM
- (BG14) GUARD RAIL MOW STRIP ASPHALT
- (TR01) RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- (PU01) PIPE UNDERDRAIN 6-INCH
- (PU02) PIPE UNDERDRAIN UNPERFORATED 6-INCH

N

EBS UNDERCUT-
5933+77 TO 5938+04 LT
15' WIDTH x 0.8' DEPTH
REPLACED WITH
GRANULAR FILL

EBS UNDERCUT-
5932+36 TO 5935+60 RT
12' WIDTH x 0.8' DEPTH
REPLACED WITH
GRANULAR FILL



PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL - EAST FRONTAGE ROAD	SHEET 49	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\021206_pd.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

2

PAVEMENT DETAIL LEGEND

- APO3 HMA PAVEMENT TYPE E-3, 5½-INCH
- AGO1 BASE AGGREGATE DENSE ¾-INCH
- PVO5 ASPHALTIC FLUME
- CGI8 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- SWO1 SAWING ASPHALT
- SWO2 SAWING CONCRETE
- DRO3 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- DRO4 AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE ¾-INCH, 6-INCH
- DRO5 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 5-INCH
- BGO2 MGS GUARDRAIL 3
- BGO4 MGS GUARDRAIL TERMINAL EAT
- BG12 STEEL THRIE BEAM
- BG14 GUARD RAIL MOW STRIP ASPHALT
- TRO1 RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- PUO1 PIPE UNDERDRAIN 6-INCH
- PUO2 PIPE UNDERDRAIN UNPERFORATED 6-INCH

EBS UNDERCUT-
5933+77 TO 5938+04 LT
15' WIDTH x 0.8' DEPTH
REPLACED WITH
GRANULAR FILL

EBS UNDERCUT-
5932+36 TO 5935+60 RT
12' WIDTH x 0.8' DEPTH
REPLACED WITH
GRANULAR FILL

N

MATCHLINE 5935+00

MATCHLINE 5941+00

R/L EAST FRONTAGE ROAD

EAST FRONTAGE ROAD

EXIST R/W

EXIST R/W

PROP R/W

PROP R/W

WETLAND BOUNDARY

5935 5936 5937 5938 5939 5940 5941

747.10 746.79 746.49 746.20 745.91 745.64 745.37 745.10 744.83 744.56 744.29 744.02 743.74

+15.91 17.00' RT

+87.95 17.00' RT

+47.95 17.00' RT

+84.40 17.00' RT

42.95' RT

30'

15' R

5'

3'

12'

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL - EAST FRONTAGE ROAD	SHEET 50	E

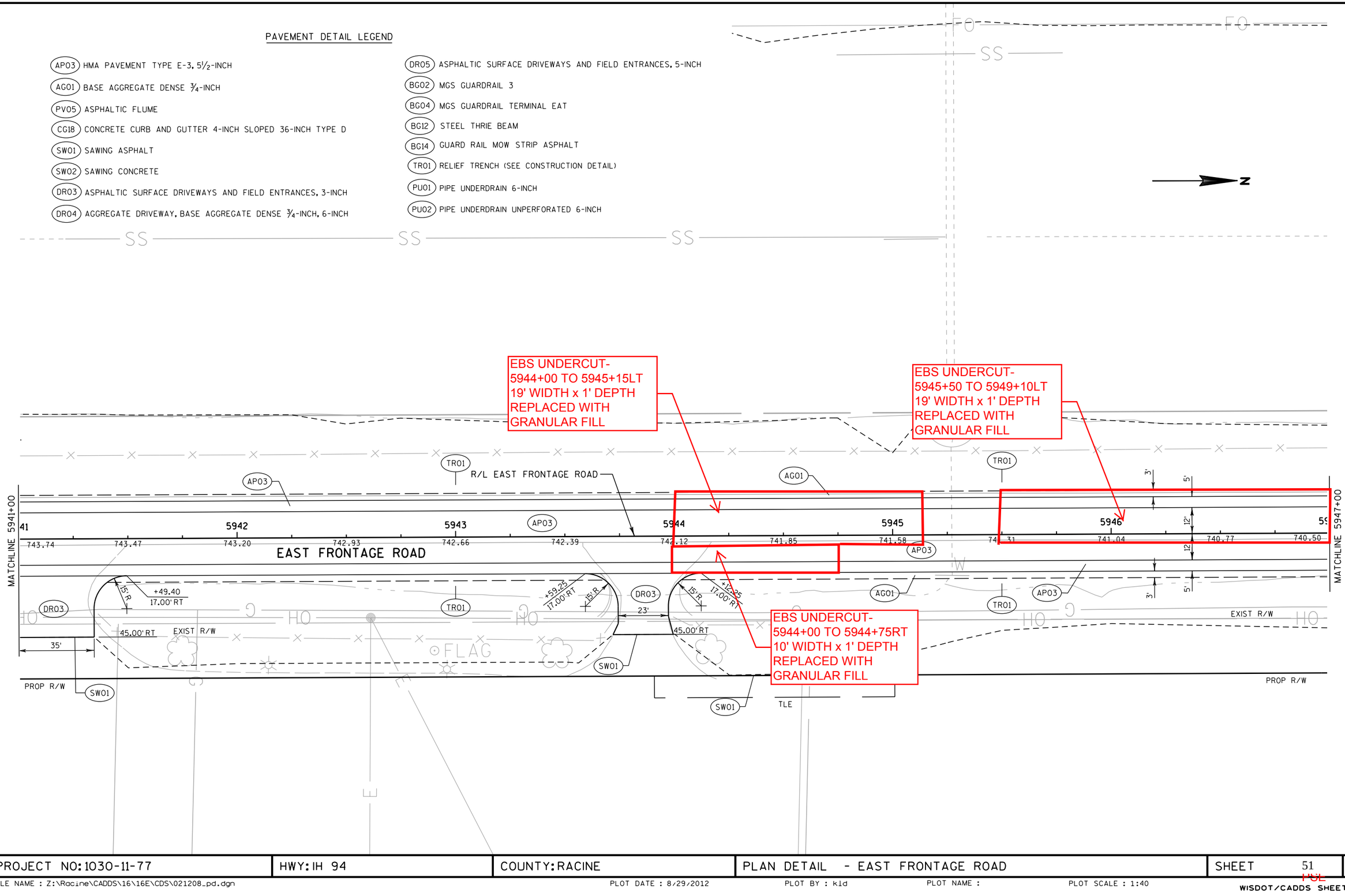
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WISDOT/CADDS SHEET 42

2

PAVEMENT DETAIL LEGEND

- APO3 HMA PAVEMENT TYPE E-3, 5½-INCH
- AGO1 BASE AGGREGATE DENSE ¾-INCH
- PVO5 ASPHALTIC FLUME
- CG18 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- SWO1 SAWING ASPHALT
- SWO2 SAWING CONCRETE
- DRO3 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- DRO4 AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE ¾-INCH, 6-INCH
- DRO5 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 5-INCH
- BGO2 MGS GUARDRAIL 3
- BGO4 MGS GUARDRAIL TERMINAL EAT
- BG12 STEEL THRIE BEAM
- BG14 GUARD RAIL MOW STRIP ASPHALT
- TRO1 RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- PUO1 PIPE UNDERDRAIN 6-INCH
- PUO2 PIPE UNDERDRAIN UNPERFORATED 6-INCH



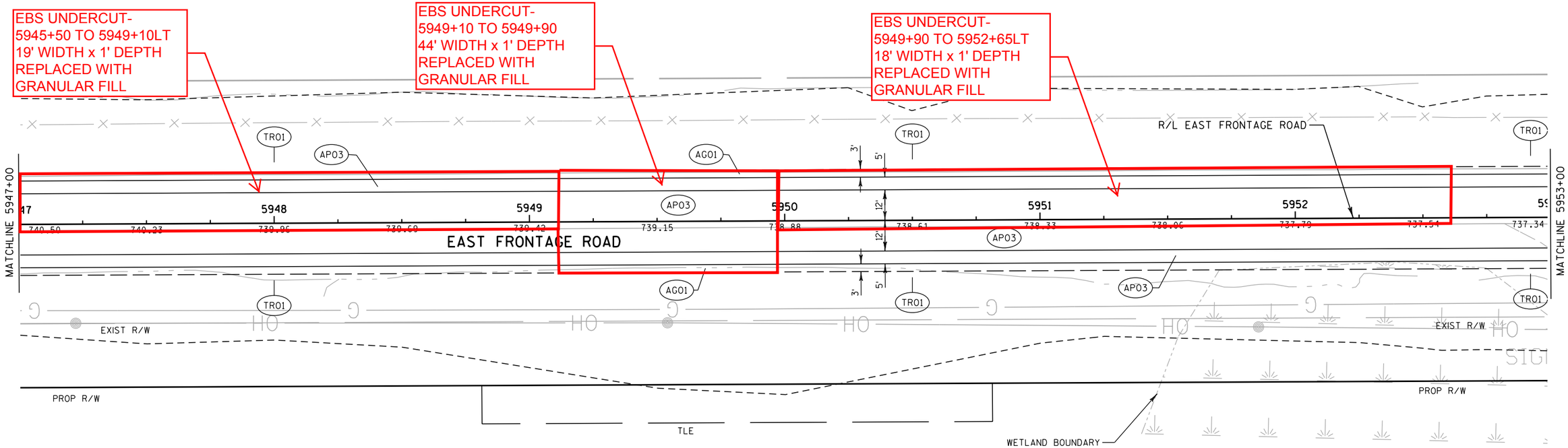
PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL - EAST FRONTAGE ROAD	SHEET 51	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\021208_pd.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : | PLOT SCALE : 1:40

2

PAVEMENT DETAIL LEGEND

- (AP03) HMA PAVEMENT TYPE E-3, 5½-INCH
- (AG01) BASE AGGREGATE DENSE ¾-INCH
- (PV05) ASPHALTIC FLUME
- (CG18) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- (SW01) SAWING ASPHALT
- (SW02) SAWING CONCRETE
- (DR03) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- (DR04) AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE ¾-INCH, 6-INCH
- (DR05) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 5-INCH
- (BG02) MGS GUARDRAIL 3
- (BG04) MGS GUARDRAIL TERMINAL EAT
- (BG12) STEEL THRIE BEAM
- (BG14) GUARD RAIL MOW STRIP ASPHALT
- (TR01) RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- (PU01) PIPE UNDERDRAIN 6-INCH
- (PU02) PIPE UNDERDRAIN UNPERFORATED 6-INCH



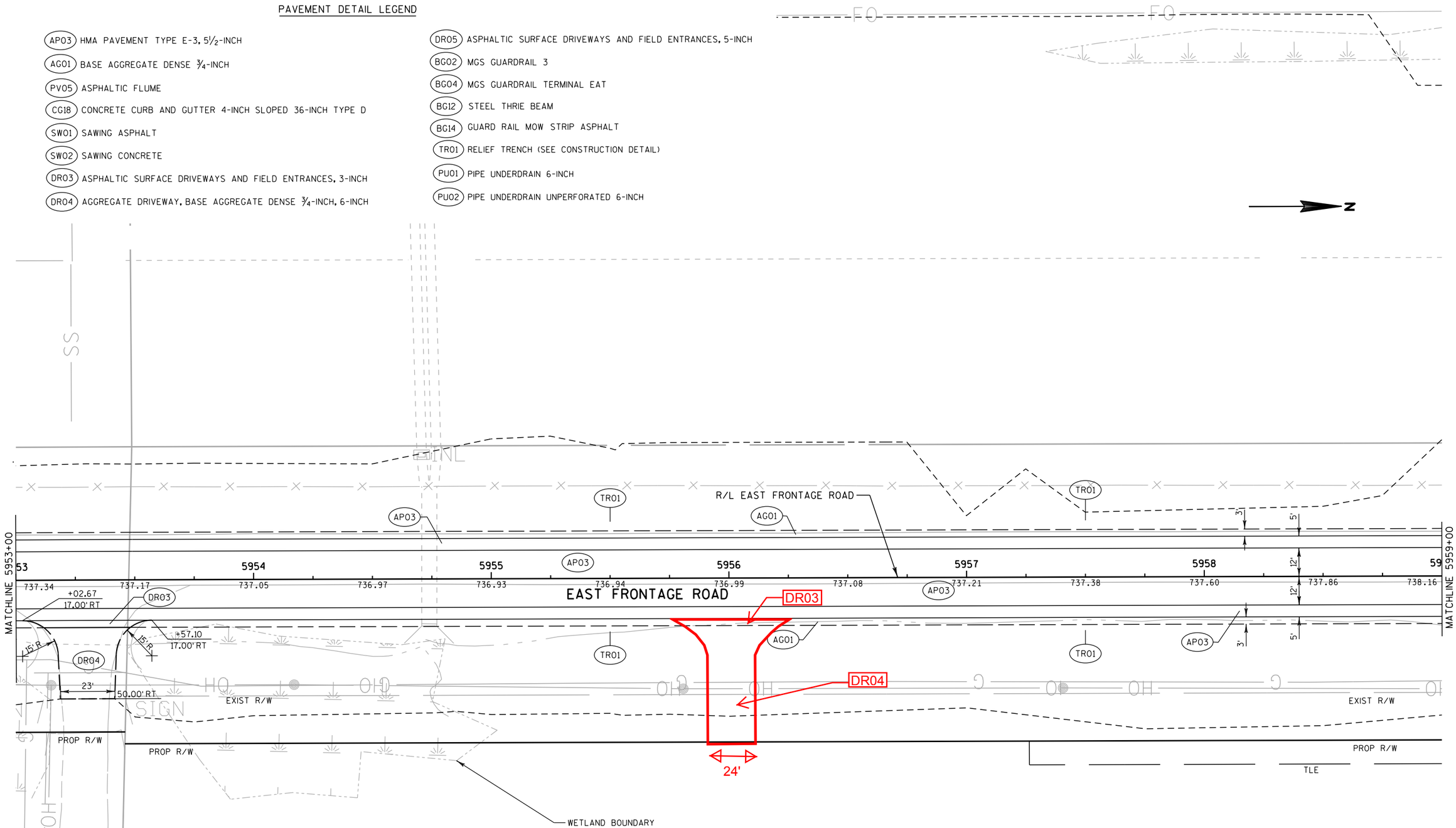
PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL - EAST FRONTAGE ROAD	SHEET 52	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\021209_pd.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:40

2

PAVEMENT DETAIL LEGEND

- APO3 HMA PAVEMENT TYPE E-3, 5½-INCH
- AGO1 BASE AGGREGATE DENSE ¾-INCH
- PVO5 ASPHALTIC FLUME
- CG18 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- SWO1 SAWING ASPHALT
- SWO2 SAWING CONCRETE
- DRO3 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- DRO4 AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE ¾-INCH, 6-INCH
- DRO5 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 5-INCH
- BGO2 MGS GUARDRAIL 3
- BGO4 MGS GUARDRAIL TERMINAL EAT
- BG12 STEEL THRIE BEAM
- BG14 GUARD RAIL MOW STRIP ASPHALT
- TRO1 RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- PUO1 PIPE UNDERDRAIN 6-INCH
- PUO2 PIPE UNDERDRAIN UNPERFORATED 6-INCH



PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL - EAST FRONTAGE ROAD	SHEET 53	E

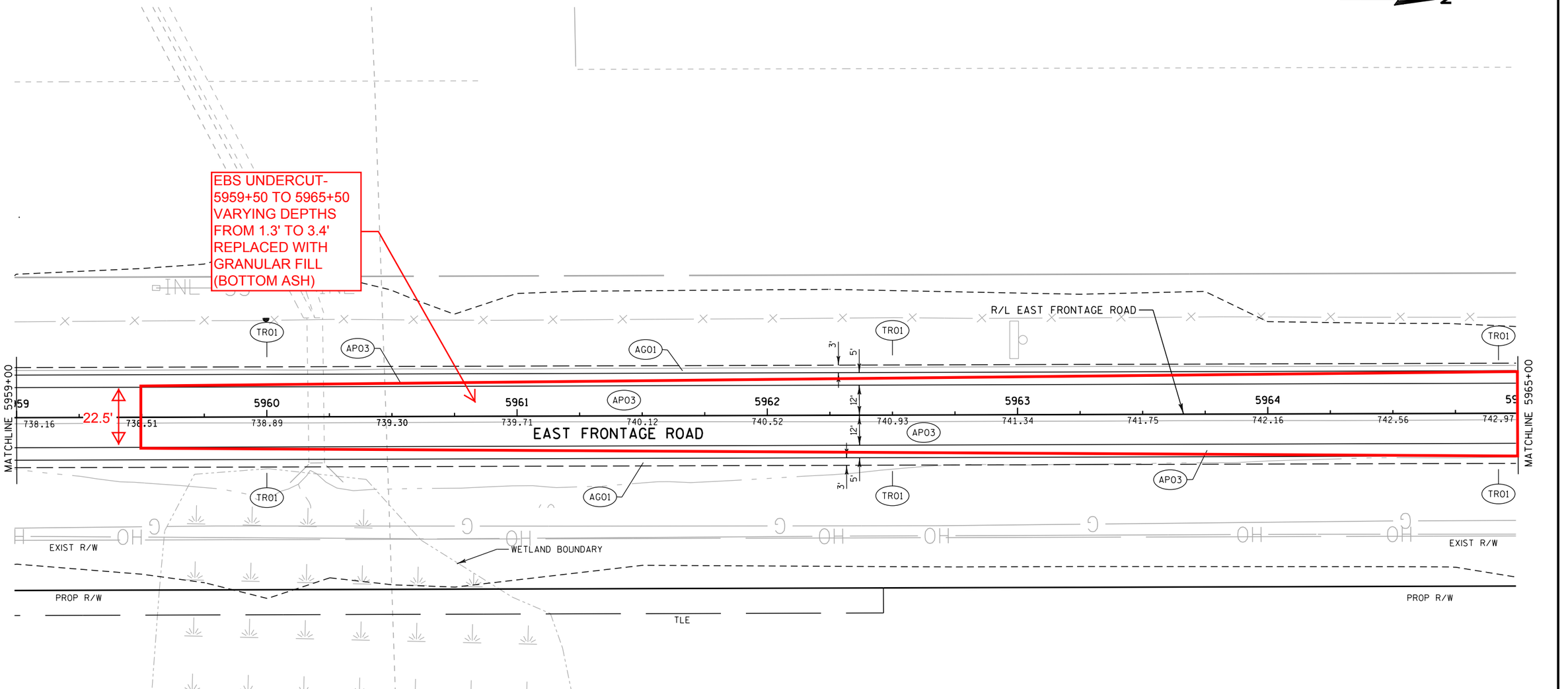
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2

2

PAVEMENT DETAIL LEGEND

- (APO3) HMA PAVEMENT TYPE E-3, 5½-INCH
- (AGO1) BASE AGGREGATE DENSE ¾-INCH
- (PVO5) ASPHALTIC FLUME
- (CG18) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- (SWO1) SAWING ASPHALT
- (SWO2) SAWING CONCRETE
- (DRO3) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- (DRO4) AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE ¾-INCH, 6-INCH
- (DRO5) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 5-INCH
- (BGO2) MGS GUARDRAIL 3
- (BGO4) MGS GUARDRAIL TERMINAL EAT
- (BG12) STEEL THRIE BEAM
- (BG14) GUARD RAIL MOW STRIP ASPHALT
- (TRO1) RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- (PU01) PIPE UNDERDRAIN 6-INCH
- (PU02) PIPE UNDERDRAIN UNPERFORATED 6-INCH



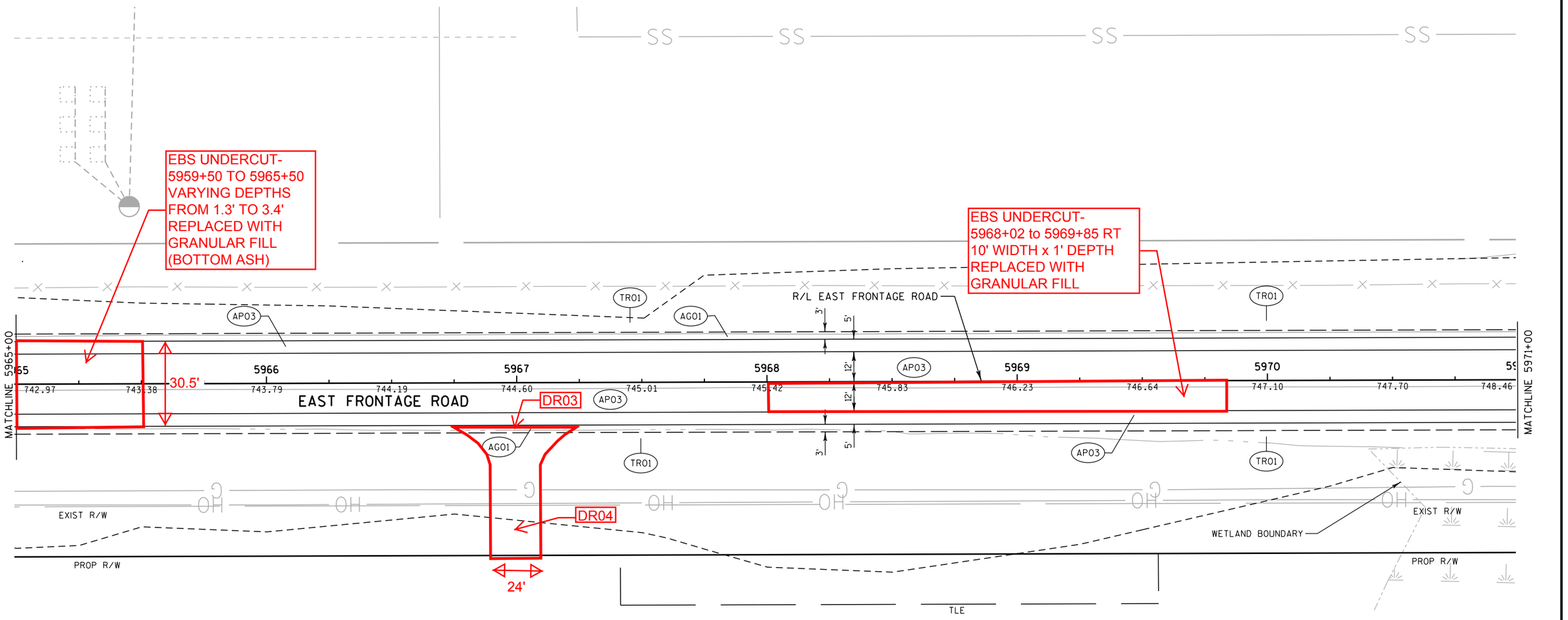
PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL - EAST FRONTAGE ROAD	SHEET 54	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\021211_pd.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:40

2

PAVEMENT DETAIL LEGEND

- APO3 HMA PAVEMENT TYPE E-3, 5½-INCH
- AGO1 BASE AGGREGATE DENSE ¾-INCH
- PVO5 ASPHALTIC FLUME
- CG18 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- SWO1 SAWING ASPHALT
- SWO2 SAWING CONCRETE
- DRO3 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- DRO4 AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE ¾-INCH, 6-INCH
- DRO5 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 5-INCH
- BGO2 MGS GUARDRAIL 3
- BGO4 MGS GUARDRAIL TERMINAL EAT
- BG12 STEEL THRIE BEAM
- BG14 GUARD RAIL MOW STRIP ASPHALT
- TRO1 RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- PU01 PIPE UNDERDRAIN 6-INCH
- PU02 PIPE UNDERDRAIN UNPERFORATED 6-INCH



PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL - EAST FRONTAGE ROAD	SHEET 55	E

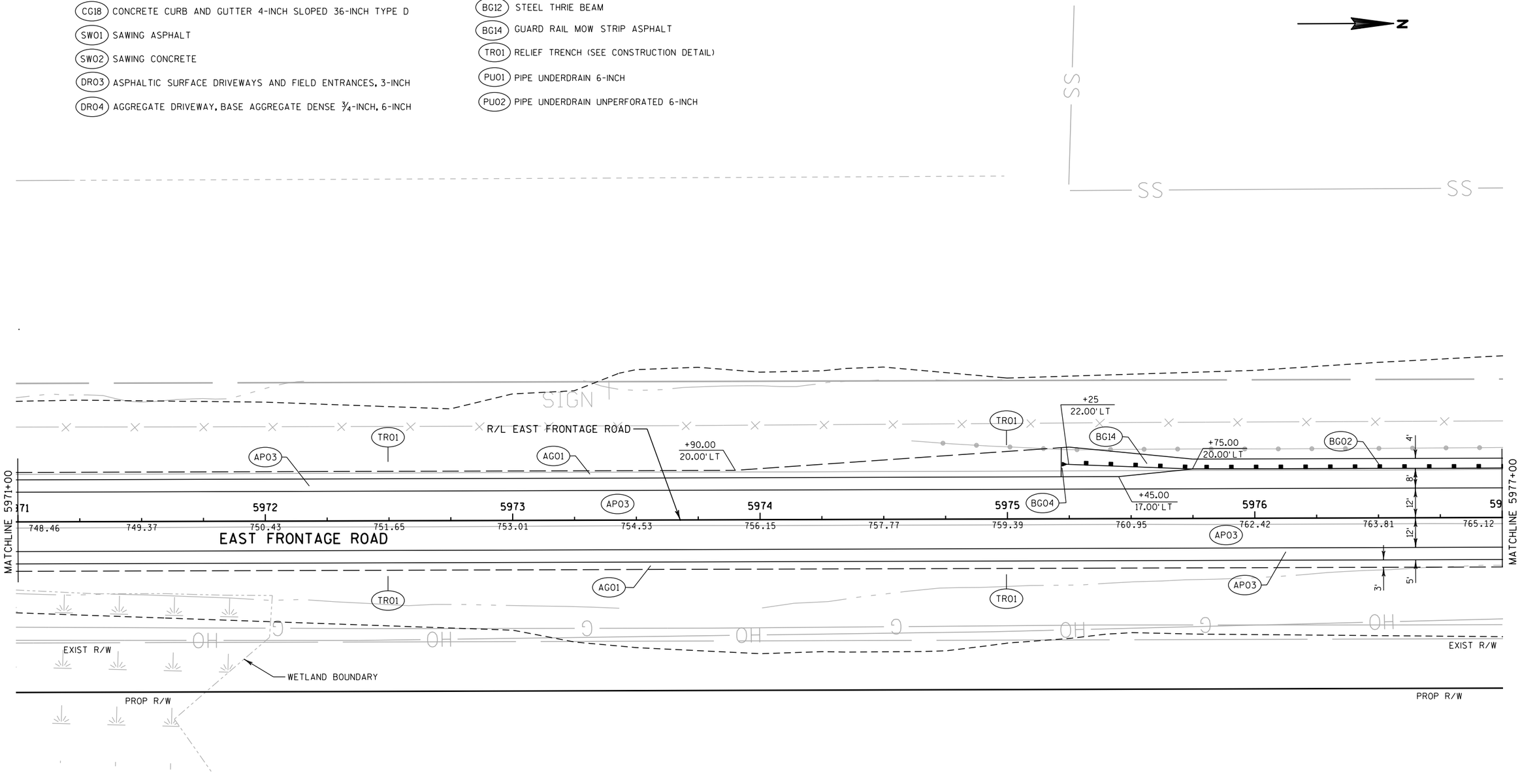
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2

2

PAVEMENT DETAIL LEGEND

- APO3 HMA PAVEMENT TYPE E-3, 5½-INCH
- AGO1 BASE AGGREGATE DENSE ¾-INCH
- PVO5 ASPHALTIC FLUME
- CG18 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- SWO1 SAWING ASPHALT
- SWO2 SAWING CONCRETE
- DRO3 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- DRO4 AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE ¾-INCH, 6-INCH
- DRO5 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 5-INCH
- BGO2 MGS GUARDRAIL 3
- BGO4 MGS GUARDRAIL TERMINAL EAT
- BG12 STEEL THRIE BEAM
- BG14 GUARD RAIL MOW STRIP ASPHALT
- TRO1 RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- PUO1 PIPE UNDERDRAIN 6-INCH
- PUO2 PIPE UNDERDRAIN UNPERFORATED 6-INCH



PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL - EAST FRONTAGE ROAD	SHEET 56	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\021213_pd.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:40

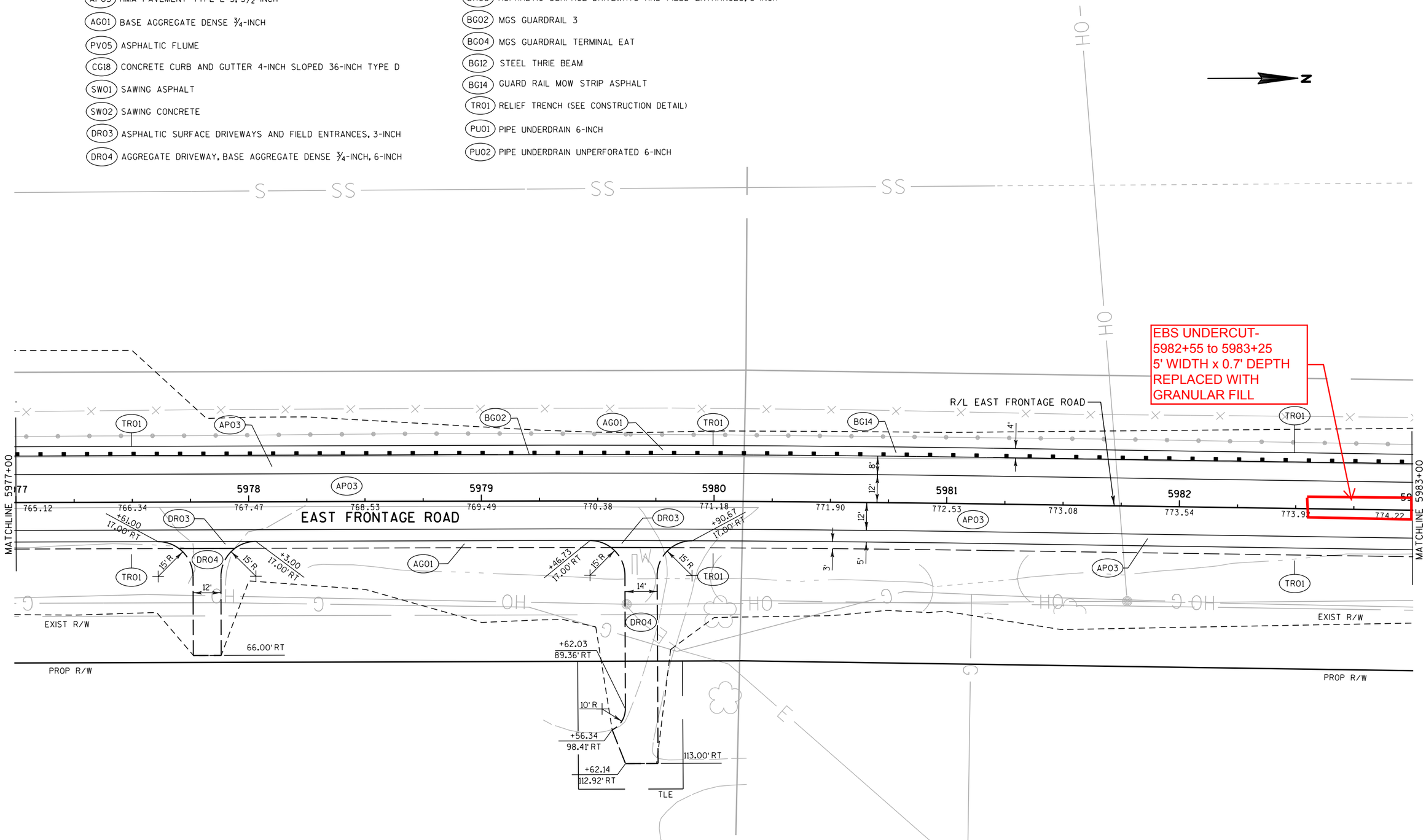
FSL

2

2

PAVEMENT DETAIL LEGEND

- APO3 HMA PAVEMENT TYPE E-3, 5½-INCH
- AGO1 BASE AGGREGATE DENSE ¾-INCH
- PVO5 ASPHALTIC FLUME
- CG18 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- SWO1 SAWING ASPHALT
- SWO2 SAWING CONCRETE
- DRO3 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- DRO4 AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE ¾-INCH, 6-INCH
- DRO5 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 5-INCH
- BGO2 MGS GUARDRAIL 3
- BGO4 MGS GUARDRAIL TERMINAL EAT
- BG12 STEEL THRIE BEAM
- BG14 GUARD RAIL MOW STRIP ASPHALT
- TRO1 RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- PUO1 PIPE UNDERDRAIN 6-INCH
- PUO2 PIPE UNDERDRAIN UNPERFORATED 6-INCH



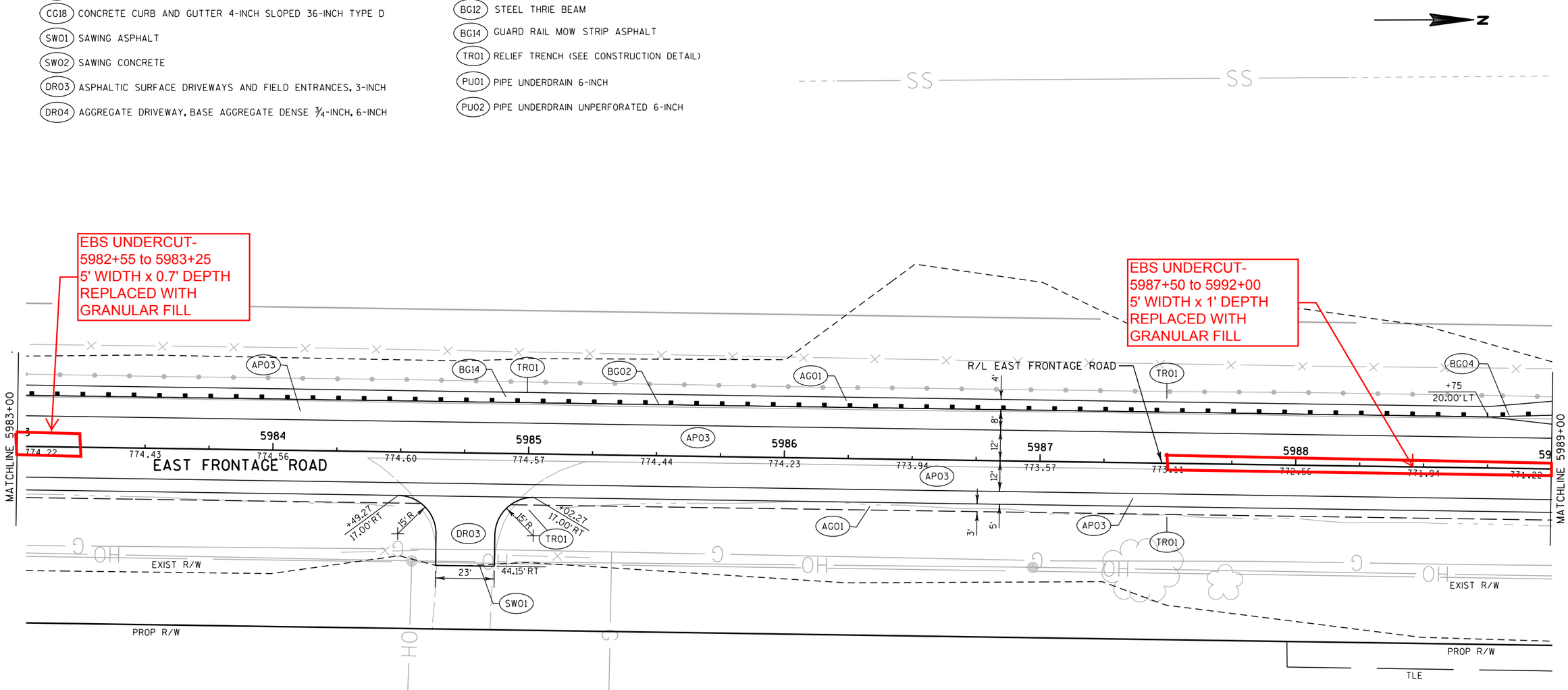
PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL - EAST FRONTAGE ROAD	SHEET 57	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\021214_pd.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:40

2

PAVEMENT DETAIL LEGEND

- APO3 HMA PAVEMENT TYPE E-3, 5½-INCH
- AGO1 BASE AGGREGATE DENSE ¾-INCH
- PVO5 ASPHALTIC FLUME
- CG18 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- SWO1 SAWING ASPHALT
- SWO2 SAWING CONCRETE
- DRO3 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- DRO4 AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE ¾-INCH, 6-INCH
- DRO5 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 5-INCH
- BGO2 MGS GUARDRAIL 3
- BGO4 MGS GUARDRAIL TERMINAL EAT
- BG12 STEEL THRIE BEAM
- BG14 GUARD RAIL MOW STRIP ASPHALT
- TRO1 RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- PUO1 PIPE UNDERDRAIN 6-INCH
- PUO2 PIPE UNDERDRAIN UNPERFORATED 6-INCH



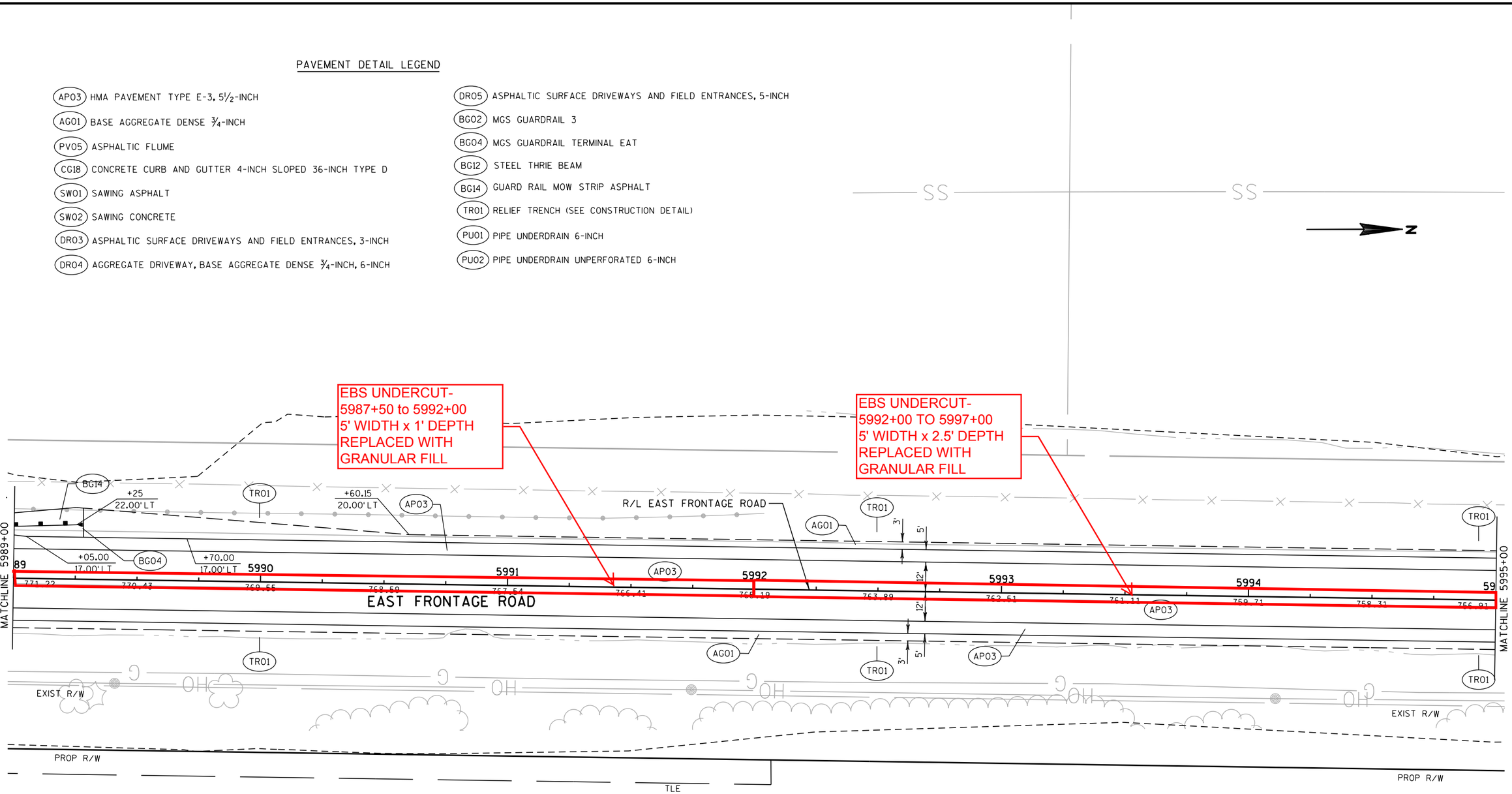
PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL - EAST FRONTAGE ROAD	SHEET 58	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\021215_pd.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:40

2

PAVEMENT DETAIL LEGEND

- (AP03) HMA PAVEMENT TYPE E-3, 5½-INCH
- (AG01) BASE AGGREGATE DENSE ¾-INCH
- (PV05) ASPHALTIC FLUME
- (CG18) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- (SW01) SAWING ASPHALT
- (SW02) SAWING CONCRETE
- (DR03) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- (DR04) AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE ¾-INCH, 6-INCH
- (DR05) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 5-INCH
- (BG02) MGS GUARDRAIL 3
- (BG04) MGS GUARDRAIL TERMINAL EAT
- (BG12) STEEL THRIE BEAM
- (BG14) GUARD RAIL MOW STRIP ASPHALT
- (TR01) RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- (PU01) PIPE UNDERDRAIN 6-INCH
- (PU02) PIPE UNDERDRAIN UNPERFORATED 6-INCH



PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL - EAST FRONTAGE ROAD	SHEET 59	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\021216_pd.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:40

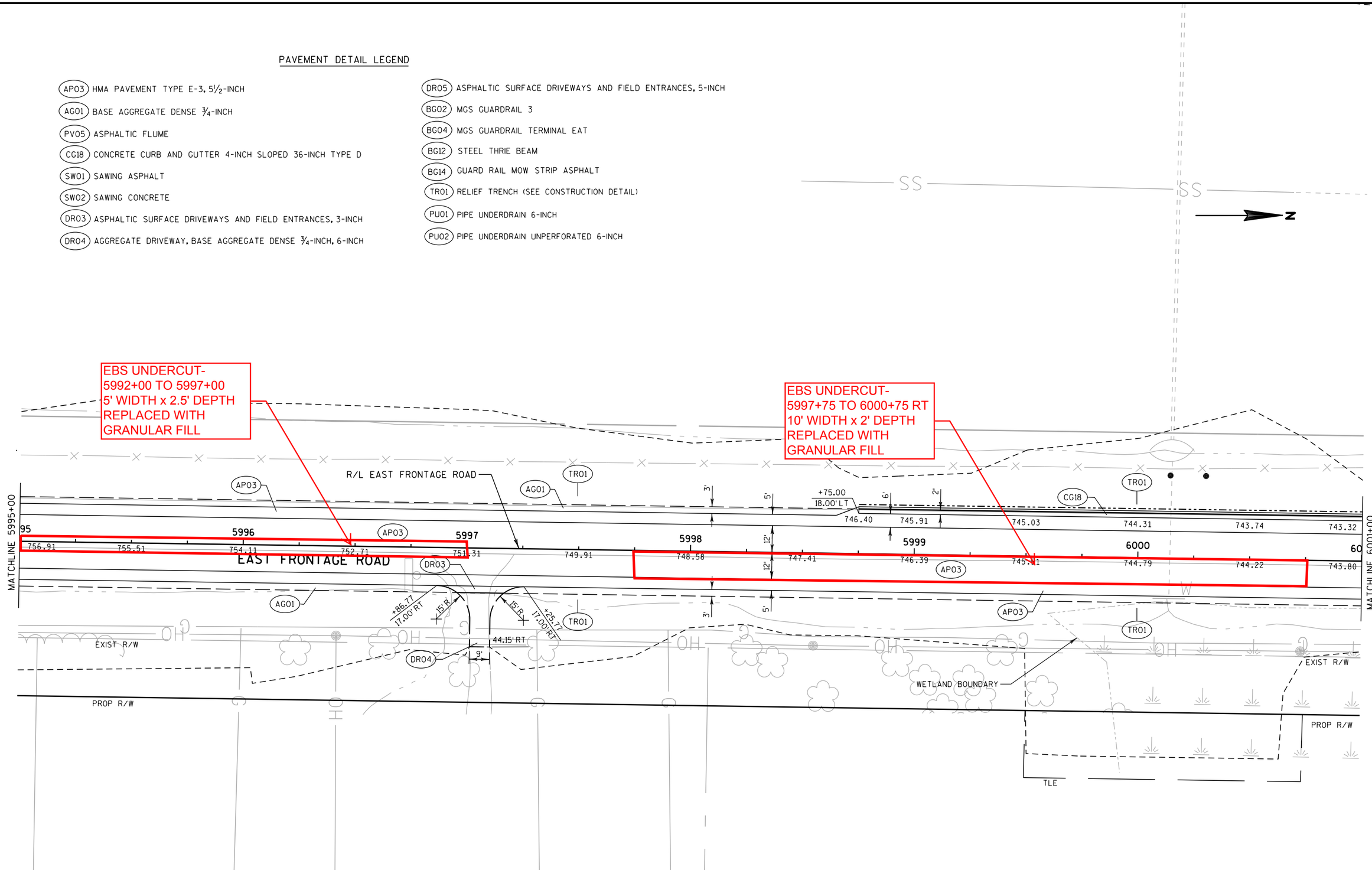
WISDOT/CADDS SHEET 42

2

2

PAVEMENT DETAIL LEGEND

- (APO3) HMA PAVEMENT TYPE E-3, 5½-INCH
- (AGO1) BASE AGGREGATE DENSE ¾-INCH
- (PVO5) ASPHALTIC FLUME
- (CG18) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- (SWO1) SAWING ASPHALT
- (SWO2) SAWING CONCRETE
- (DRO3) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- (DRO4) AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE ¾-INCH, 6-INCH
- (DRO5) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 5-INCH
- (BGO2) MGS GUARDRAIL 3
- (BGO4) MGS GUARDRAIL TERMINAL EAT
- (BG12) STEEL THRIE BEAM
- (BG14) GUARD RAIL MOW STRIP ASPHALT
- (TRO1) RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- (PUO1) PIPE UNDERDRAIN 6-INCH
- (PUO2) PIPE UNDERDRAIN UNPERFORATED 6-INCH



PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL - EAST FRONTAGE ROAD	SHEET 60	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\021217_pd.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:40

PAVEMENT DETAIL LEGEND

- APO3 HMA PAVEMENT TYPE E-3, 5½-INCH
- AGO1 BASE AGGREGATE DENSE ¾-INCH
- PVO5 ASPHALTIC FLUME
- CG18 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- SWO1 SAWING ASPHALT
- SWO2 SAWING CONCRETE
- DRO3 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- DRO4 AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE ¾-INCH, 6-INCH
- DRO5 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 5-INCH
- BGO2 MGS GUARDRAIL 3
- BGO4 MGS GUARDRAIL TERMINAL EAT
- BG12 STEEL THRIE BEAM
- BG14 GUARD RAIL MOW STRIP ASPHALT
- TRO1 RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- PUO1 PIPE UNDERDRAIN 6-INCH
- PUO2 PIPE UNDERDRAIN UNPERFORATED 6-INCH

EBS UNDERCUT-
6002+32 TO 6006+00
51' WIDTH x 0.7' DEPTH
REPLACED WITH
GRANULAR FILL

EAST FRONTAGE ROAD

R/L EAST FRONTAGE ROAD

MATCHLINE 6001+00

MATCHLINE 3003+50

EXIST R/W

PROP R/W

WETLAND BOUNDARY

STATION EQUATION
STA 6006+38.71 BK=
STA 3002+95.47 AH

69+73.05
11.90' RT

69+73.13
12.67' LT

+33.84
18.00' LT

+66.72
18' LT

+84.65
12.00' LT

+63.46
12.00' RT

+25.96
17.00' RT

+63.46
28.00' RT

+63.46
28.00' RT

71+44.15
15.00' RT

71+17.87
15.05' LT

+50.30
24.00' RT

72+00
10.80' LT

72+00
11.38' RT

END CONSTRUCTION
STA 72+00.00
MATCH EXISTING

GOLF ROAD

RADIUS TABLE					
POINT	STATION	OFFSET	STATION	OFFSET	RADIUS
1	6005+63.46	88.00'	71+44.15	75.00'	60'
2	3003+50.30	64.00'	71+19.93	55.00'	40'
3	3003+63.02	83.00'	69+73.27	67.67'	55'
4	6005+66.72	78.00'	69+77.77	71.95'	60'

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL - EAST FRONTAGE ROAD	SHEET 61	E

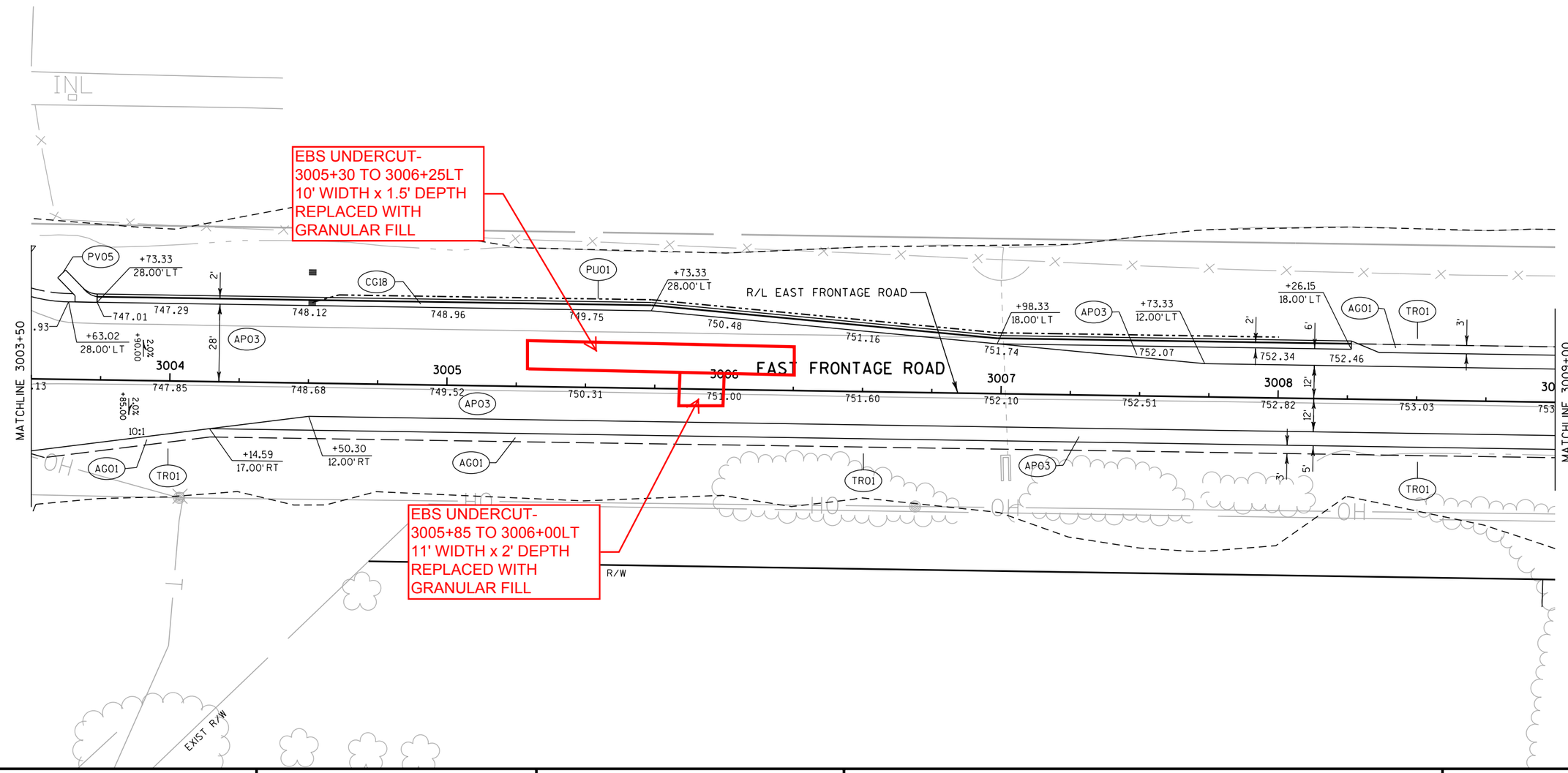
FILE NAME : Z:\Racine\CADDS\16\16E\CDS\021218_pd.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : | PLOT SCALE : 1:40

2

2

PAVEMENT DETAIL LEGEND

- APO3 HMA PAVEMENT TYPE E-3, 5½-INCH
- AGO1 BASE AGGREGATE DENSE ¾-INCH
- PV05 ASPHALTIC FLUME
- CG18 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- SW01 SAWING ASPHALT
- SW02 SAWING CONCRETE
- DR03 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- DR04 AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE ¾-INCH, 6-INCH
- DR05 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 5-INCH
- BG02 MGS GUARDRAIL 3
- BG04 MGS GUARDRAIL TERMINAL EAT
- BG12 STEEL THRIE BEAM
- BG14 GUARD RAIL MOW STRIP ASPHALT
- TR01 RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- PU01 PIPE UNDERDRAIN 6-INCH
- PU02 PIPE UNDERDRAIN UNPERFORATED 6-INCH



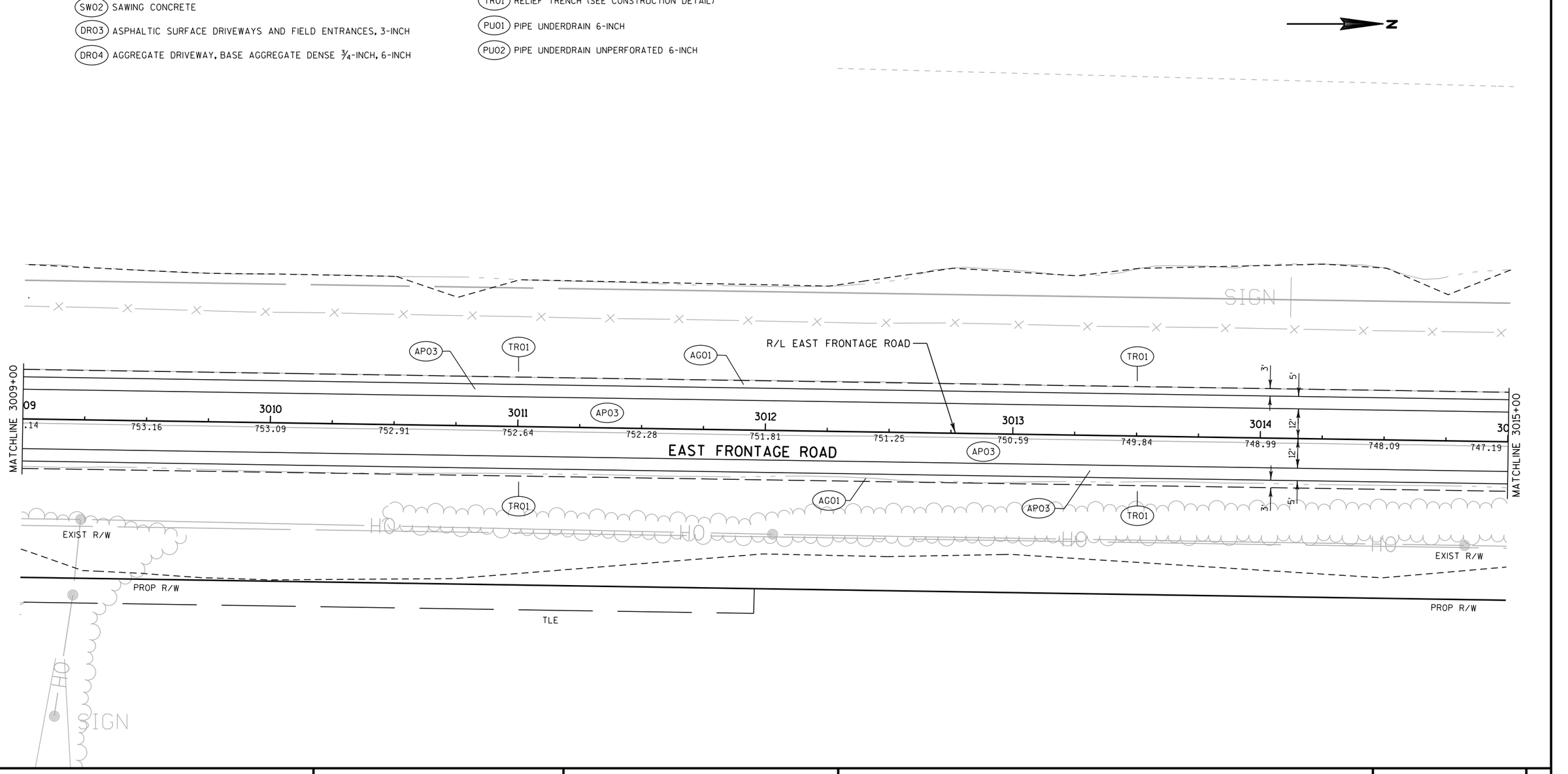
PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL - EAST FRONTAGE ROAD	SHEET 62	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\021219_pd.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:40

2

PAVEMENT DETAIL LEGEND

- APO3 HMA PAVEMENT TYPE E-3, 5½-INCH
- AGO1 BASE AGGREGATE DENSE ¾-INCH
- PVO5 ASPHALTIC FLUME
- CG18 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- SWO1 SAWING ASPHALT
- SWO2 SAWING CONCRETE
- DRO3 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- DRO4 AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE ¾-INCH, 6-INCH
- DRO5 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 5-INCH
- BGO2 MGS GUARDRAIL 3
- BGO4 MGS GUARDRAIL TERMINAL EAT
- BG12 STEEL THRIE BEAM
- BG14 GUARD RAIL MOW STRIP ASPHALT
- TRO1 RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- PU01 PIPE UNDERDRAIN 6-INCH
- PU02 PIPE UNDERDRAIN UNPERFORATED 6-INCH



PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL - EAST FRONTAGE ROAD	SHEET 63	E

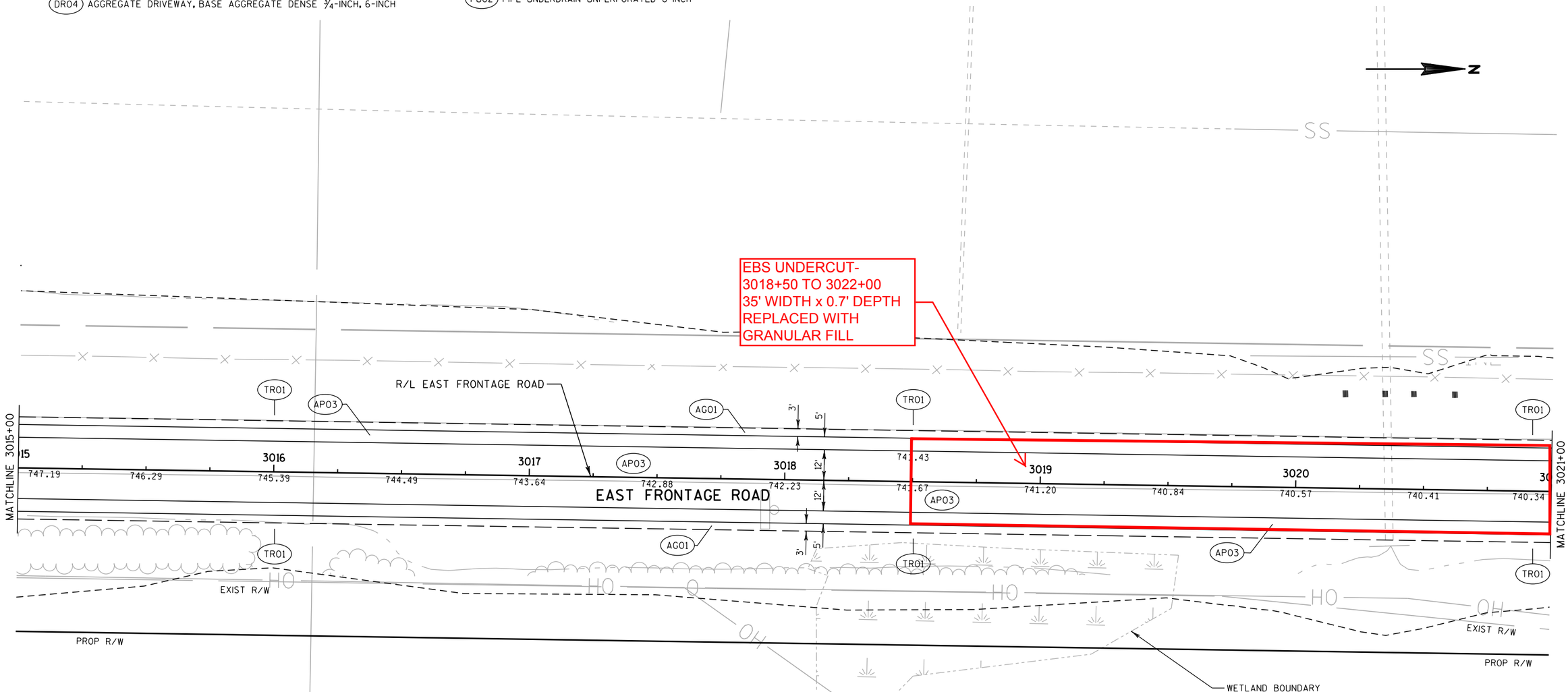
FILE NAME : Z:\Racine\CADDS\16\16E\CDS\021220_pd.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : | PLOT SCALE : 1:40

FSL

2

PAVEMENT DETAIL LEGEND

- APO3 HMA PAVEMENT TYPE E-3, 5½-INCH
- AG01 BASE AGGREGATE DENSE ¾-INCH
- PV05 ASPHALTIC FLUME
- CG18 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- SW01 SAWING ASPHALT
- SW02 SAWING CONCRETE
- DR03 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- DR04 AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE ¾-INCH, 6-INCH
- DR05 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 5-INCH
- BG02 MGS GUARDRAIL 3
- BG04 MGS GUARDRAIL TERMINAL EAT
- BG12 STEEL THRIE BEAM
- BG14 GUARD RAIL MOW STRIP ASPHALT
- TR01 RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- PU01 PIPE UNDERDRAIN 6-INCH
- PU02 PIPE UNDERDRAIN UNPERFORATED 6-INCH



PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL - EAST FRONTAGE ROAD	SHEET 64	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\021221_pd.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:40

2

2

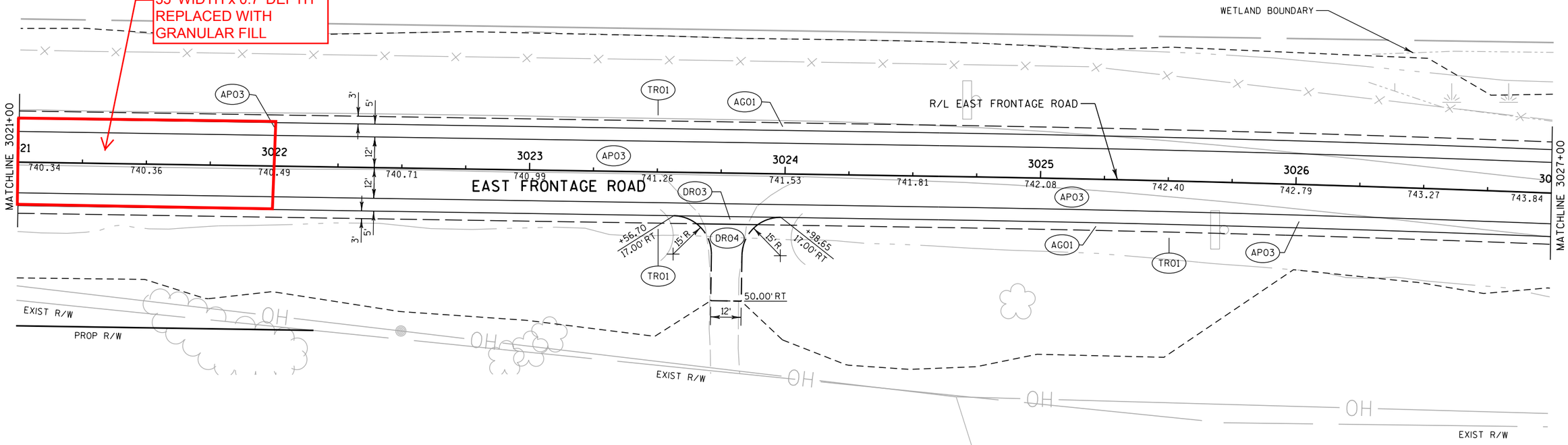
PAVEMENT DETAIL LEGEND

- (APO3) HMA PAVEMENT TYPE E-3, 5½-INCH
- (AGO1) BASE AGGREGATE DENSE ¾-INCH
- (PVO5) ASPHALTIC FLUME
- (CG18) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- (SWO1) SAWING ASPHALT
- (SWO2) SAWING CONCRETE
- (DRO3) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- (DRO4) AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE ¾-INCH, 6-INCH
- (DRO5) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 5-INCH
- (BGO2) MGS GUARDRAIL 3
- (BGO4) MGS GUARDRAIL TERMINAL EAT
- (BG12) STEEL THRIE BEAM
- (BG14) GUARD RAIL MOW STRIP ASPHALT
- (TRO1) RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- (PUO1) PIPE UNDERDRAIN 6-INCH
- (PUO2) PIPE UNDERDRAIN UNPERFORATED 6-INCH

N

SS SS SS

EBS UNDERCUT-
3018+50 TO 3022+00
35' WIDTH x 0.7' DEPTH
REPLACED WITH
GRANULAR FILL



PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL - EAST FRONTAGE ROAD	SHEET 65	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\021222_pd.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:40

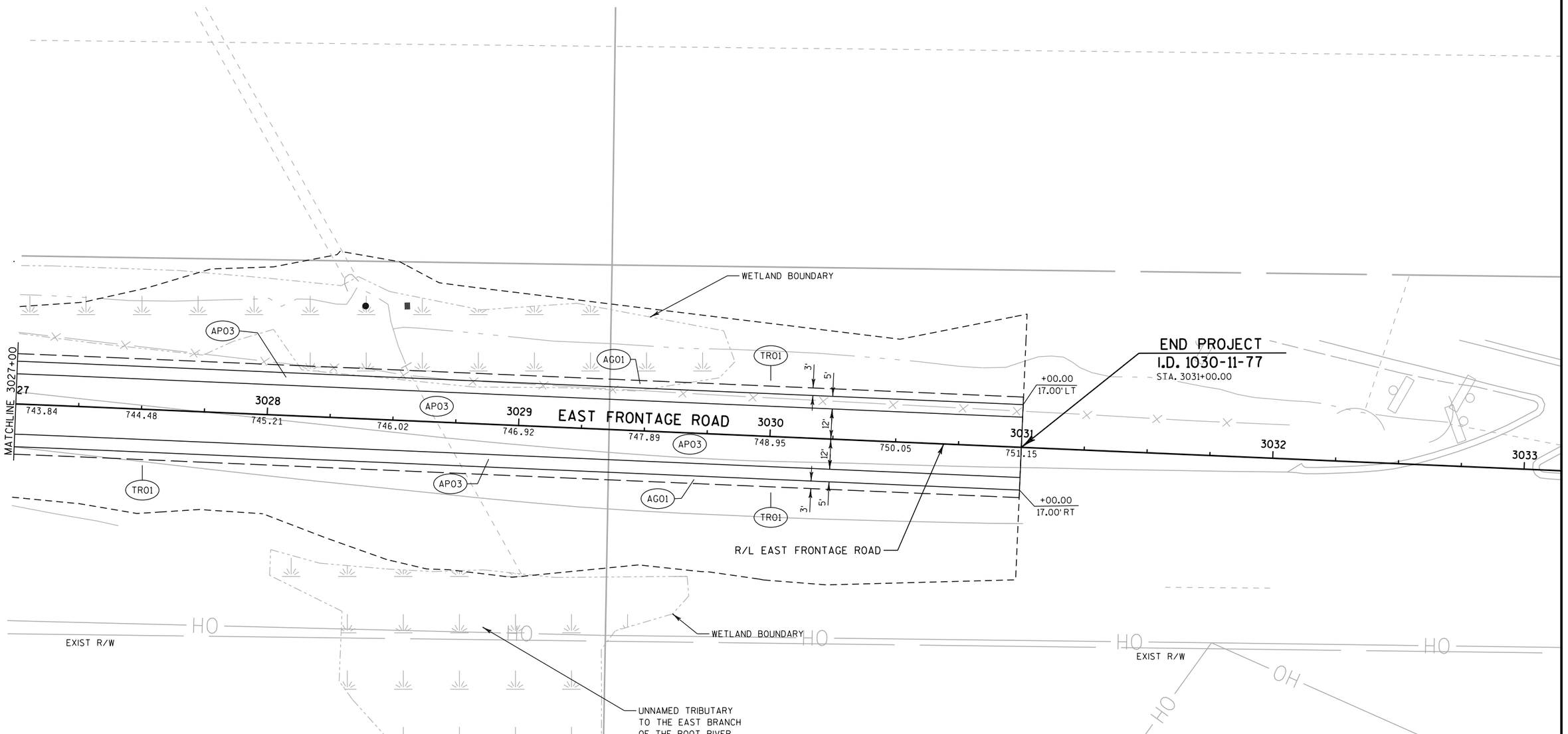
2

2

PAVEMENT DETAIL LEGEND

- (APO3) HMA PAVEMENT TYPE E-3, 5½-INCH
- (AGO1) BASE AGGREGATE DENSE ¾-INCH
- (PVO5) ASPHALTIC FLUME
- (CG18) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- (SWO1) SAWING ASPHALT
- (SWO2) SAWING CONCRETE
- (DRO3) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- (DRO4) AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE ¾-INCH, 6-INCH
- (DRO5) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 5-INCH
- (BGO2) MGS GUARDRAIL 3
- (BGO4) MGS GUARDRAIL TERMINAL EAT
- (BG12) STEEL THRIE BEAM
- (BG14) GUARD RAIL MOW STRIP ASPHALT
- (TRO1) RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- (PU01) PIPE UNDERDRAIN 6-INCH
- (PU02) PIPE UNDERDRAIN UNPERFORATED 6-INCH

N

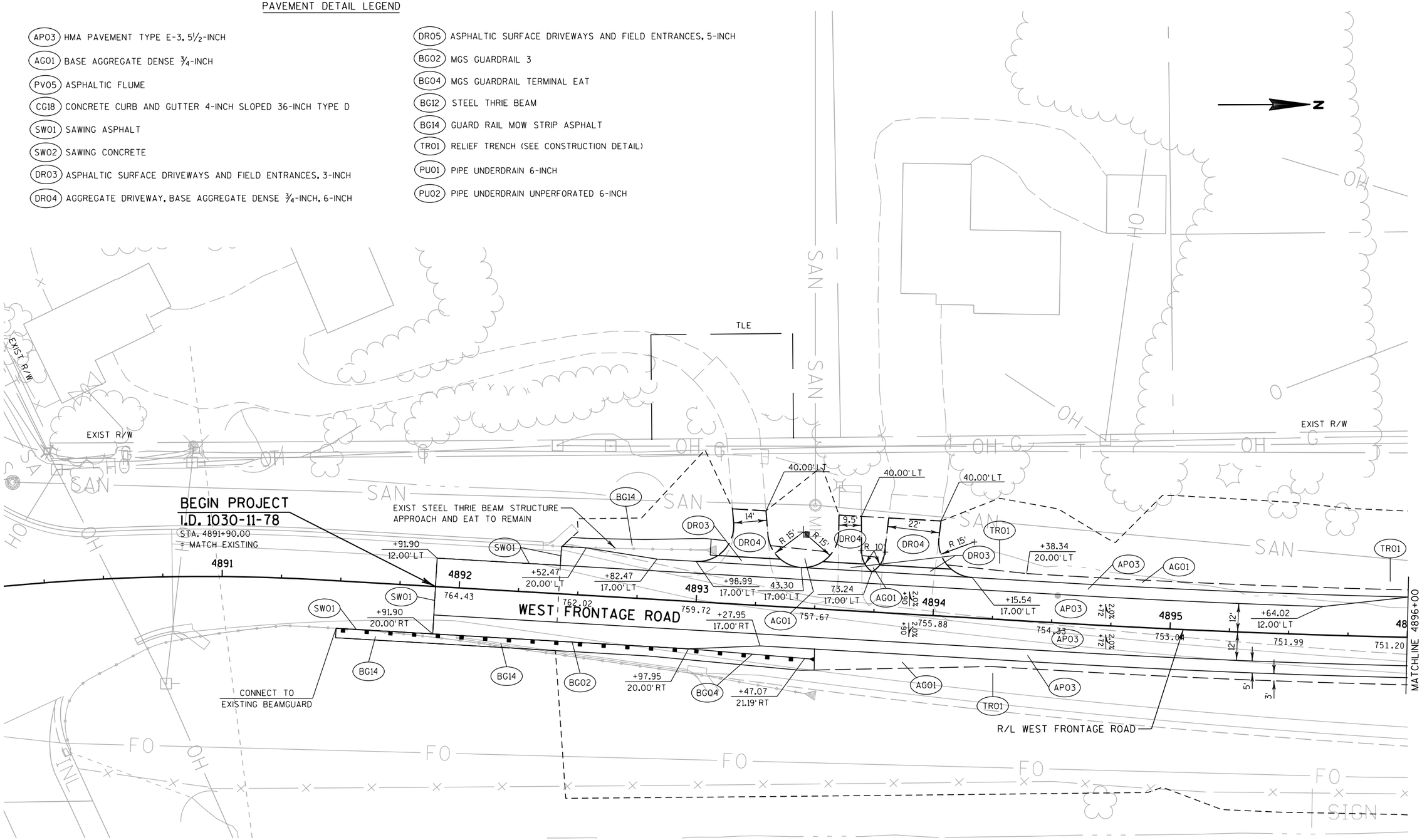


PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL - EAST FRONTAGE ROAD	SHEET 66	E

2

PAVEMENT DETAIL LEGEND

- (AP03) HMA PAVEMENT TYPE E-3, 5½-INCH
- (AG01) BASE AGGREGATE DENSE ¾-INCH
- (PV05) ASPHALTIC FLUME
- (CG18) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- (SW01) SAWING ASPHALT
- (SW02) SAWING CONCRETE
- (DR03) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- (DR04) AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE ¾-INCH, 6-INCH
- (DR05) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 5-INCH
- (BG02) MGS GUARDRAIL 3
- (BG04) MGS GUARDRAIL TERMINAL EAT
- (BG12) STEEL THRIE BEAM
- (BG14) GUARD RAIL MOW STRIP ASPHALT
- (TR01) RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- (PU01) PIPE UNDERDRAIN 6-INCH
- (PU02) PIPE UNDERDRAIN UNPERFORATED 6-INCH



PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL - WEST FRONTAGE ROAD	SHEET 67	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\021224_pd.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : | PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

2

2

BEGIN CONSTRUCTION
STA 80+75.00
MATCH EXISTING

EXIST R/W

80+75.00
11.84' RT

80+92.83
11.84' RT

28.85' RT

81+31.33
12.03' RT

81+57.63
12.12' RT

81+72.84
12.70' RT

43.00' RT

82+35.28
15.00' RT

82+12.34
14.20' RT

80+75.00
12.17' LT

81+10.14
12.00' LT

81+57.63
12.00' LT

81+72.21
13.12' LT

81+81.45
43.98' LT

39.55' LT

43.98' LT

82+11.21
16.12' LT

82+22.69
15.00' LT

+84.84
28.00' LT

+92.84
28.00' LT

+64.33
24.00' LT

R/L EVANS LANE

EVANS LANE

PROP R/W

EXIST R/W

SAN MIGUEL CREEK

EBS UNDERCUT-
82+00 TO 82+50
38' WIDTH x 2' DEPTH
REPLACED WITH
GRANULAR FILL

EBS UNDERCUT-
4897+00 TO 4897+60
35' WIDTH x 2' DEPTH
REPLACED WITH
GRANULAR FILL

RADIUS TABLE					
POINT	STATION	OFFSET	STATION	OFFSET	RADIUS
1	4896+64.34	63.73'	82+35.54	55.00'	40'
2	4897+84.83	78.00'	82+22.69	65.00'	50'

PAVEMENT DETAIL LEGEND

- APO3 HMA PAVEMENT TYPE E-3, 5½-INCH
- AGO1 BASE AGGREGATE DENSE ¾-INCH
- PVO5 ASPHALTIC FLUME
- CG18 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- SWO1 SAWING ASPHALT
- SWO2 SAWING CONCRETE
- DRO3 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- DRO4 AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE ¾-INCH, 6-INCH
- DRO5 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 5-INCH
- BGO2 MGS GUARDRAIL 3
- BGO4 MGS GUARDRAIL TERMINAL EAT
- BG12 STEEL THRIE BEAM
- BG14 GUARD RAIL MOW STRIP ASPHALT
- TRO1 RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- PU01 PIPE UNDERDRAIN 6-INCH
- PU02 PIPE UNDERDRAIN UNPERFORATED 6-INCH

61.00' LT
24'
54.31' LT
20'
+03.45
17.00' LT
+61.84
17.00' LT
+96.84
12.00' LT
+52.88
17.53' LT
+98.92
17.00' LT
+84.84
28.00' LT

WEST FRONTAGE ROAD
R/L WEST FRONTAGE ROAD

MATCHLINE 4896+00
MATCHLINE 4902+00

4896 4897 4898 4899 4900 4901 4902

751.20 750.66 750.25 749.84 749.42 749.01 748.59 748.18 747.77 747.35 746.94 746.53 746.11

N

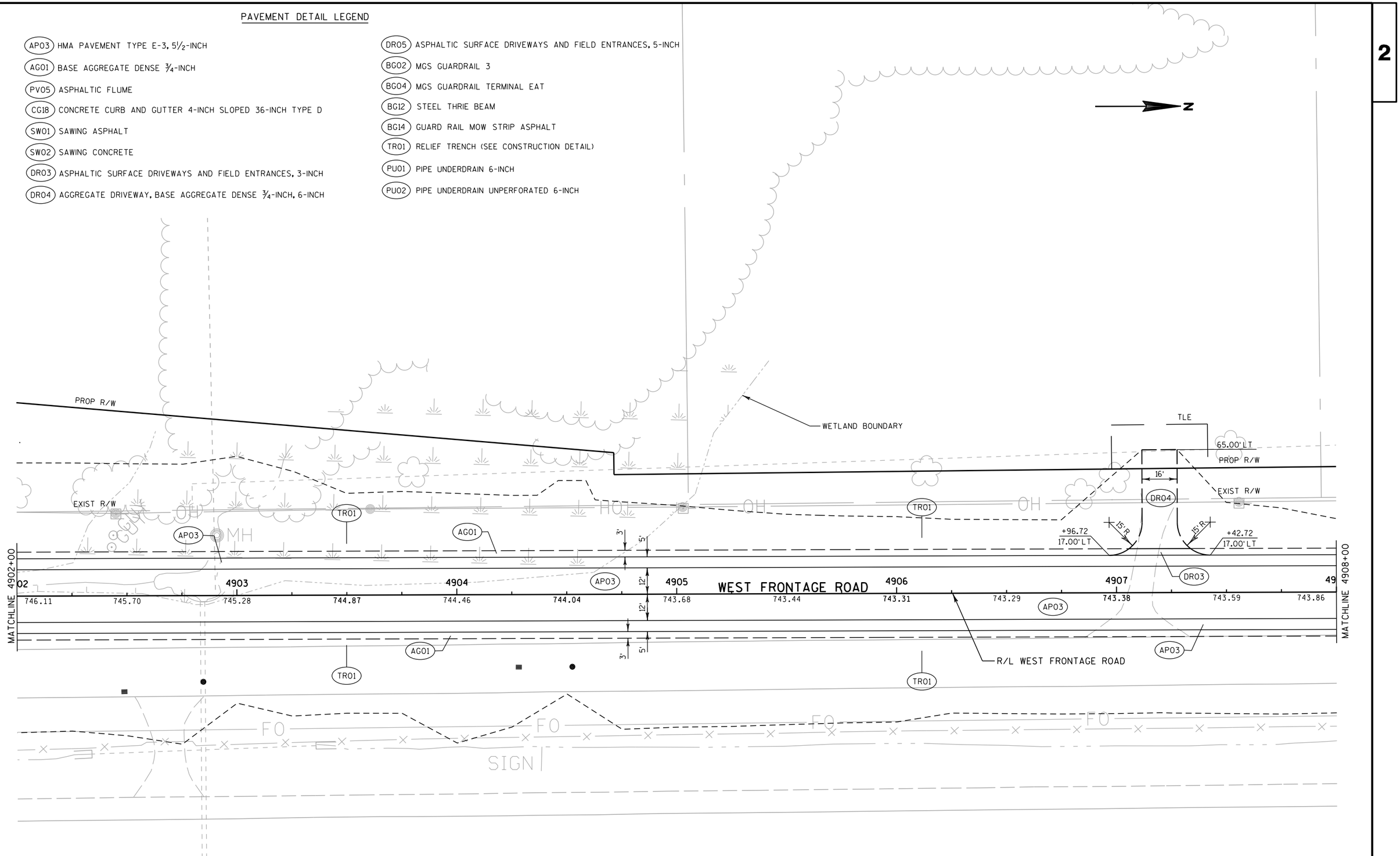
PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL - WEST FRONTAGE ROAD	SHEET 68	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\021225_pd.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:40

2

PAVEMENT DETAIL LEGEND

- (APO3) HMA PAVEMENT TYPE E-3, 5½-INCH
- (AGO1) BASE AGGREGATE DENSE ¾-INCH
- (PVO5) ASPHALTIC FLUME
- (CG18) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- (SWO1) SAWING ASPHALT
- (SWO2) SAWING CONCRETE
- (DRO3) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- (DRO4) AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE ¾-INCH, 6-INCH
- (DRO5) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 5-INCH
- (BGO2) MGS GUARDRAIL 3
- (BGO4) MGS GUARDRAIL TERMINAL EAT
- (BG12) STEEL THRIE BEAM
- (BG14) GUARD RAIL MOW STRIP ASPHALT
- (TRO1) RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- (PU01) PIPE UNDERDRAIN 6-INCH
- (PU02) PIPE UNDERDRAIN UNPERFORATED 6-INCH



PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL - WEST FRONTAGE ROAD	SHEET 69	E

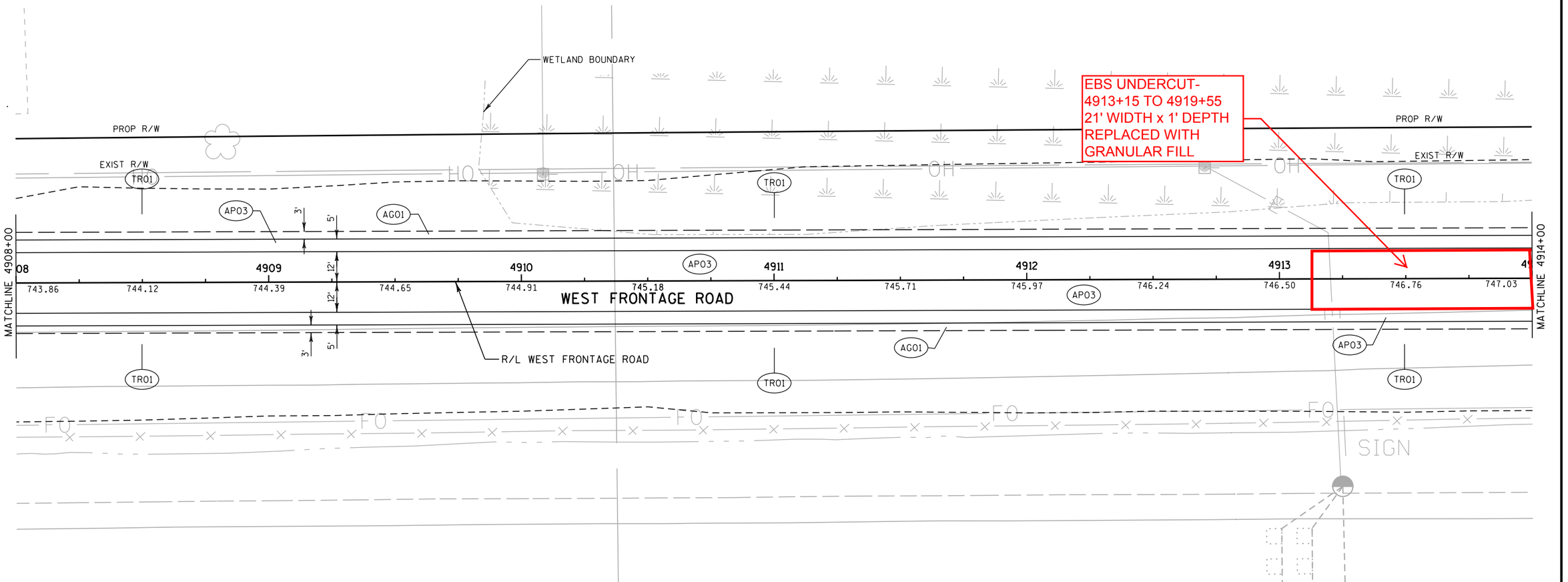
FILE NAME : Z:\Racine\CADDS\16\16E\CDS\021226_pd.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:40

2

PAVEMENT DETAIL LEGEND

- APO3 HMA PAVEMENT TYPE E-3, 5½-INCH
- AGO1 BASE AGGREGATE DENSE ¾-INCH
- PVO5 ASPHALTIC FLUME
- CG18 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- SWO1 SAWING ASPHALT
- SWO2 SAWING CONCRETE
- DRO3 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- DRO4 AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE ¾-INCH, 6-INCH
- DRO5 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 5-INCH
- BGO2 MGS GUARDRAIL 3
- BGO4 MGS GUARDRAIL TERMINAL EAT
- BG12 STEEL THRIE BEAM
- BG14 GUARD RAIL MOW STRIP ASPHALT
- TRO1 RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- PU01 PIPE UNDERDRAIN 6-INCH
- PU02 PIPE UNDERDRAIN UNPERFORATED 6-INCH

N



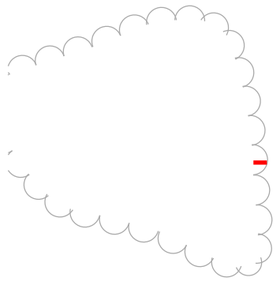
PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL - WEST FRONTAGE ROAD	SHEET 70	E

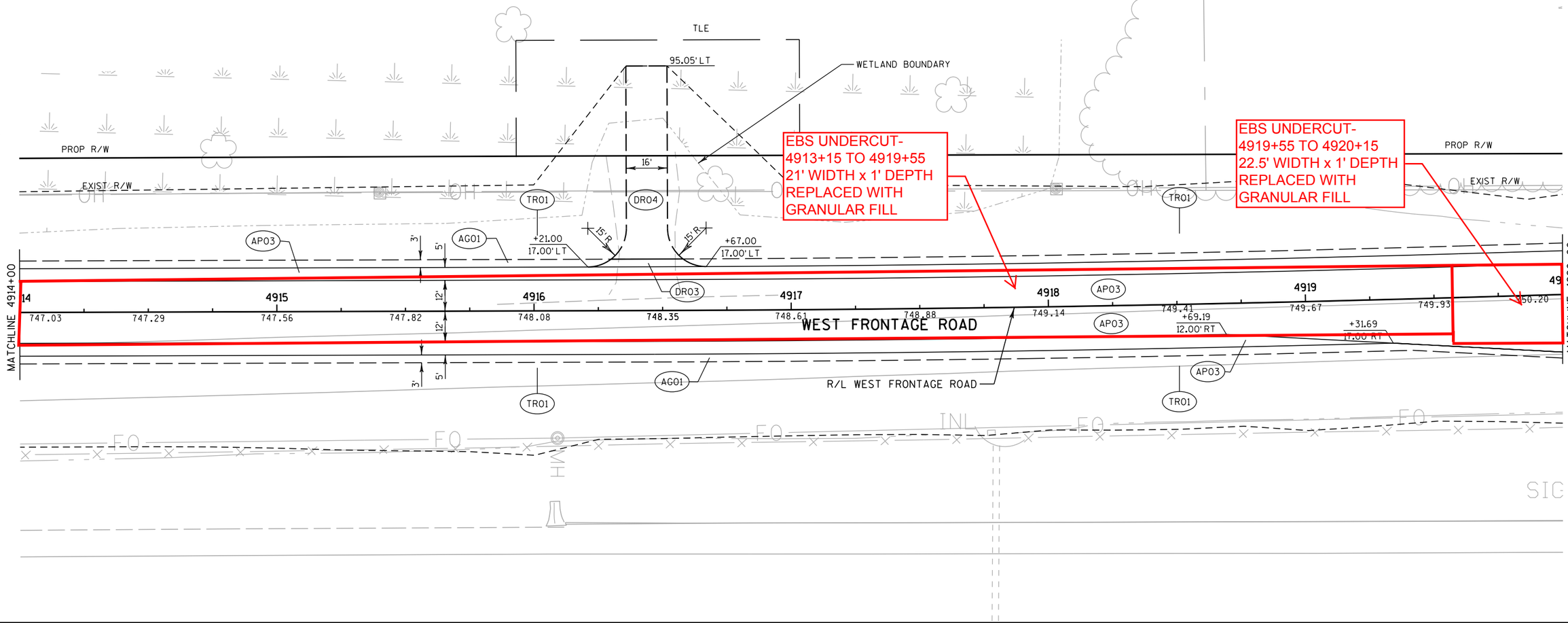
FILE NAME : Z:\Racine\CADDS\16\16E\CDS\021227_pd.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : | PLOT SCALE : 1:40

2

PAVEMENT DETAIL LEGEND

- (APO3) HMA PAVEMENT TYPE E-3, 5½-INCH
- (AGO1) BASE AGGREGATE DENSE ¾-INCH
- (PVO5) ASPHALTIC FLUME
- (CG18) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- (SWO1) SAWING ASPHALT
- (SWO2) SAWING CONCRETE
- (DRO3) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- (DRO4) AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE ¾-INCH, 6-INCH
- (DRO5) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 5-INCH
- (BGO2) MGS GUARDRAIL 3
- (BGO4) MGS GUARDRAIL TERMINAL EAT
- (BG12) STEEL THRIE BEAM
- (BG14) GUARD RAIL MOW STRIP ASPHALT
- (TRO1) RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- (PUO1) PIPE UNDERDRAIN 6-INCH
- (PUO2) PIPE UNDERDRAIN UNPERFORATED 6-INCH





PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL - WEST FRONTAGE ROAD	SHEET 71	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\021228_pd.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : | PLOT SCALE : 1:40

2

PAVEMENT DETAIL LEGEND

- (APO3) HMA PAVEMENT TYPE E-3, 5½-INCH
- (AGO1) BASE AGGREGATE DENSE ¾-INCH
- (PVO5) ASPHALTIC FLUME
- (CG18) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- (SWO1) SAWING ASPHALT
- (SWO2) SAWING CONCRETE
- (DRO3) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- (DRO4) AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE ¾-INCH, 6-INCH
- (DRO5) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 5-INCH
- (BGO2) MGS GUARDRAIL 3
- (BGO4) MGS GUARDRAIL TERMINAL EAT
- (BG12) STEEL THRIE BEAM
- (BG14) GUARD RAIL MOW STRIP ASPHALT
- (TRO1) RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- (PUO1) PIPE UNDERDRAIN 6-INCH
- (PUO2) PIPE UNDERDRAIN UNPERFORATED 6-INCH

EBS UNDERCUT-
4919+55 TO 4920+15
22.5' WIDTH x 1' DEPTH
REPLACED WITH
GRANULAR FILL

NOTE: ALL STATION/OFFSETS ARE SHOWN WITH RESPECT TO THE REFERENCE LINE

RADIUS TABLE					
POINT	STATION	OFFSET	STATION	OFFSET	RADIUS
1	4923+06.30	68.00'	48+27.04	51.00'	40'
2	4924+19.99	71.00'	48+31.11	62.00'	50'
3	4924+30.72	88.00'	46+72.28	75.06'	60'
4	4923+01.71	64.00'	46+95.03	55.00'	40'

BEGIN CONSTRUCTION
STA 46+16.30
MATCH EXISTING

KRAUT ROAD

WEST FRONTAGE ROAD

R/L WEST FRONTAGE ROAD

R/L KRAUT ROAD

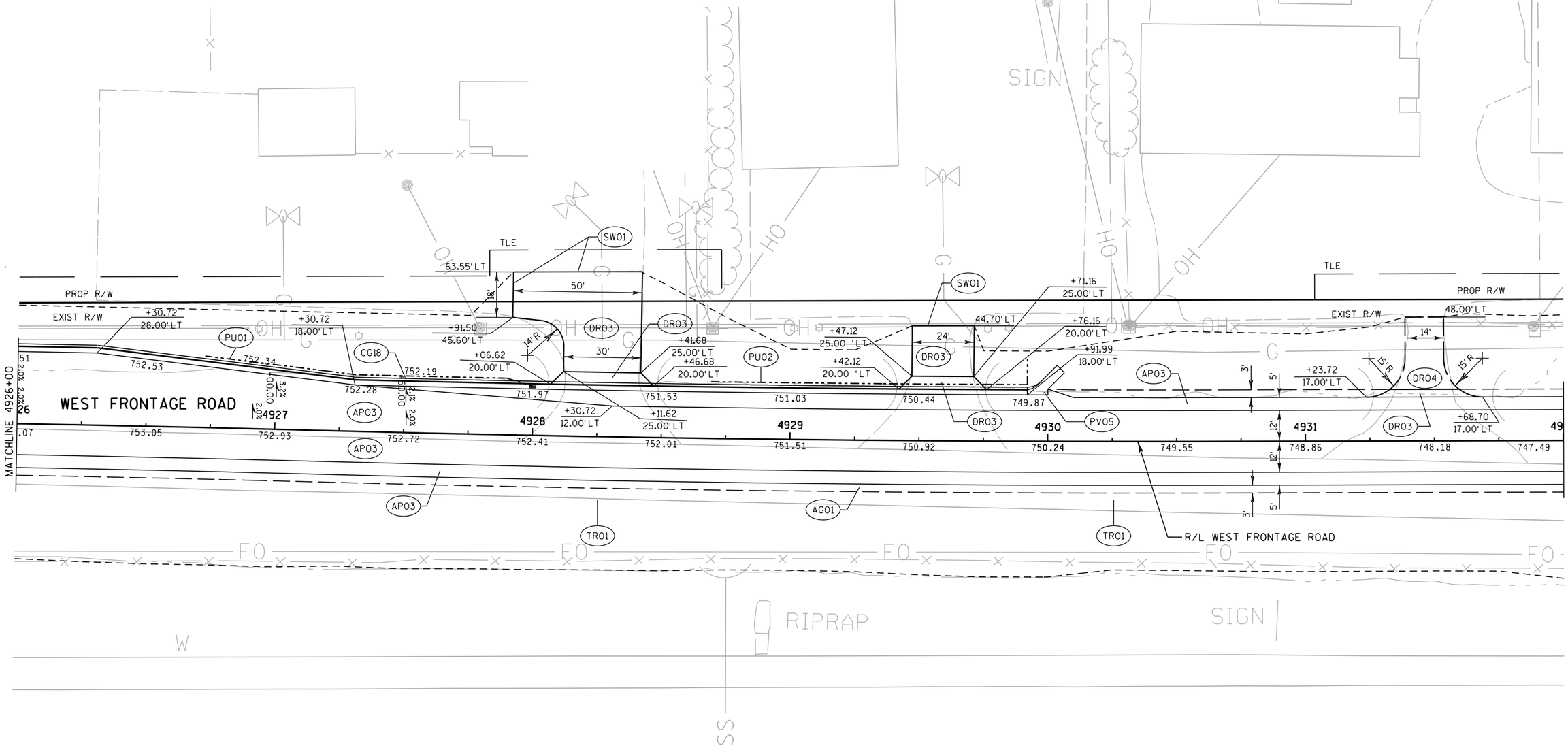
PROP R/W
EXIST R/W
TLE
MATCHLINE 4920+00
MATCHLINE 4926+00

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL - WEST FRONTAGE ROAD	SHEET 72	E

2

PAVEMENT DETAIL LEGEND

- APO3 HMA PAVEMENT TYPE E-3, 5½-INCH
- AGO1 BASE AGGREGATE DENSE ¾-INCH
- PVO5 ASPHALTIC FLUME
- CG18 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- SWO1 SAWING ASPHALT
- SWO2 SAWING CONCRETE
- DRO3 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- DRO4 AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE ¾-INCH, 6-INCH
- DRO5 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 5-INCH
- BGO2 MGS GUARDRAIL 3
- BGO4 MGS GUARDRAIL TERMINAL EAT
- BG12 STEEL THRIE BEAM
- BG14 GUARD RAIL MOW STRIP ASPHALT
- TRO1 RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- PUO1 PIPE UNDERDRAIN 6-INCH
- PUO2 PIPE UNDERDRAIN UNPERFORATED 6-INCH



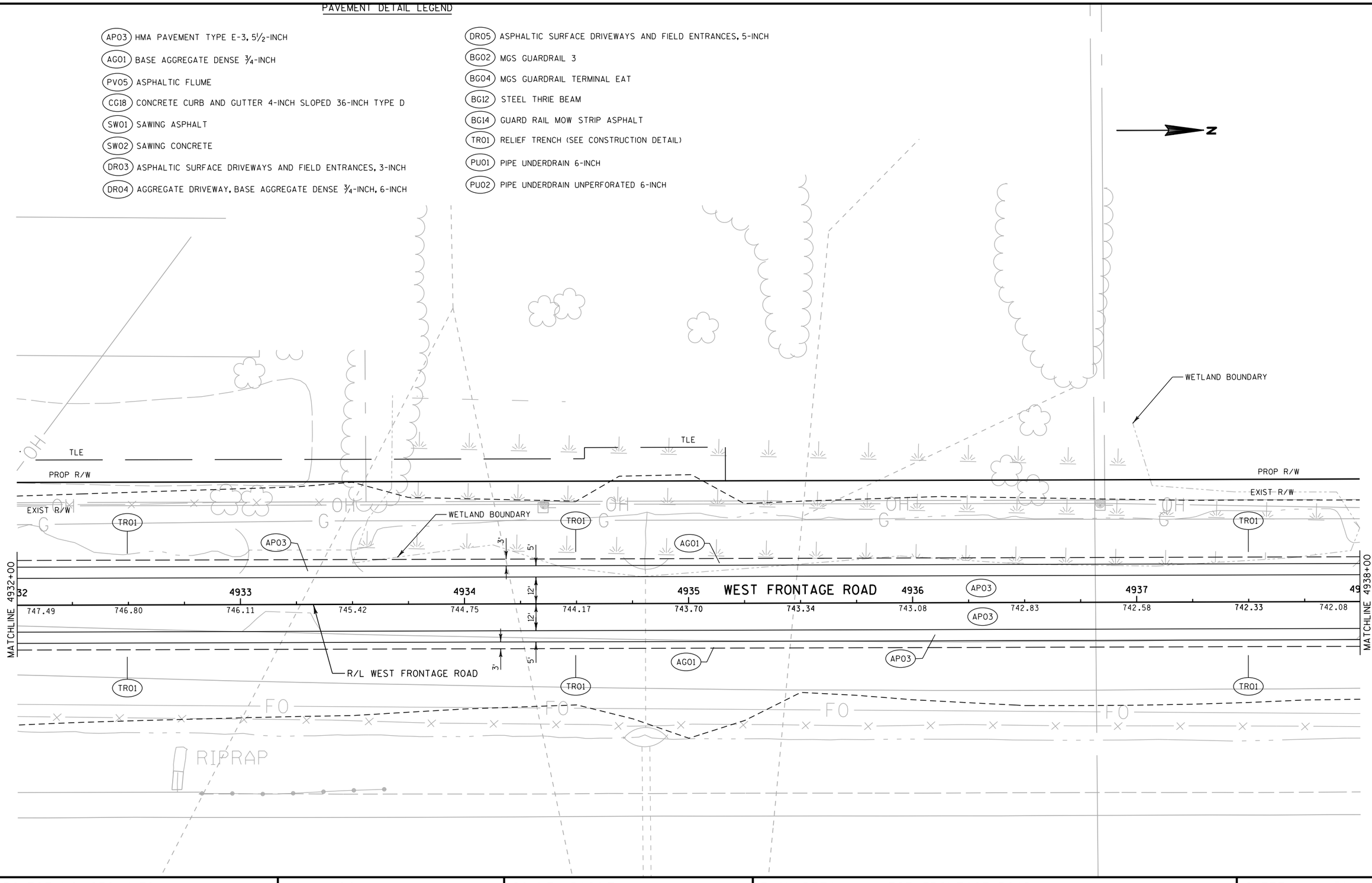
PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL - WEST FRONTAGE ROAD	SHEET 73	E

2

2

PAVEMENT DETAIL LEGEND

- APO3 HMA PAVEMENT TYPE E-3, 5½-INCH
- AGO1 BASE AGGREGATE DENSE ¾-INCH
- PVO5 ASPHALTIC FLUME
- CGI8 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- SWO1 SAWING ASPHALT
- SWO2 SAWING CONCRETE
- DRO3 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- DRO4 AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE ¾-INCH, 6-INCH
- DRO5 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 5-INCH
- BGO2 MGS GUARDRAIL 3
- BGO4 MGS GUARDRAIL TERMINAL EAT
- BGI2 STEEL THRIE BEAM
- BGI4 GUARD RAIL MOW STRIP ASPHALT
- TRO1 RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- PUO1 PIPE UNDERDRAIN 6-INCH
- PUO2 PIPE UNDERDRAIN UNPERFORATED 6-INCH



PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL - WEST FRONTAGE ROAD	SHEET 74	E

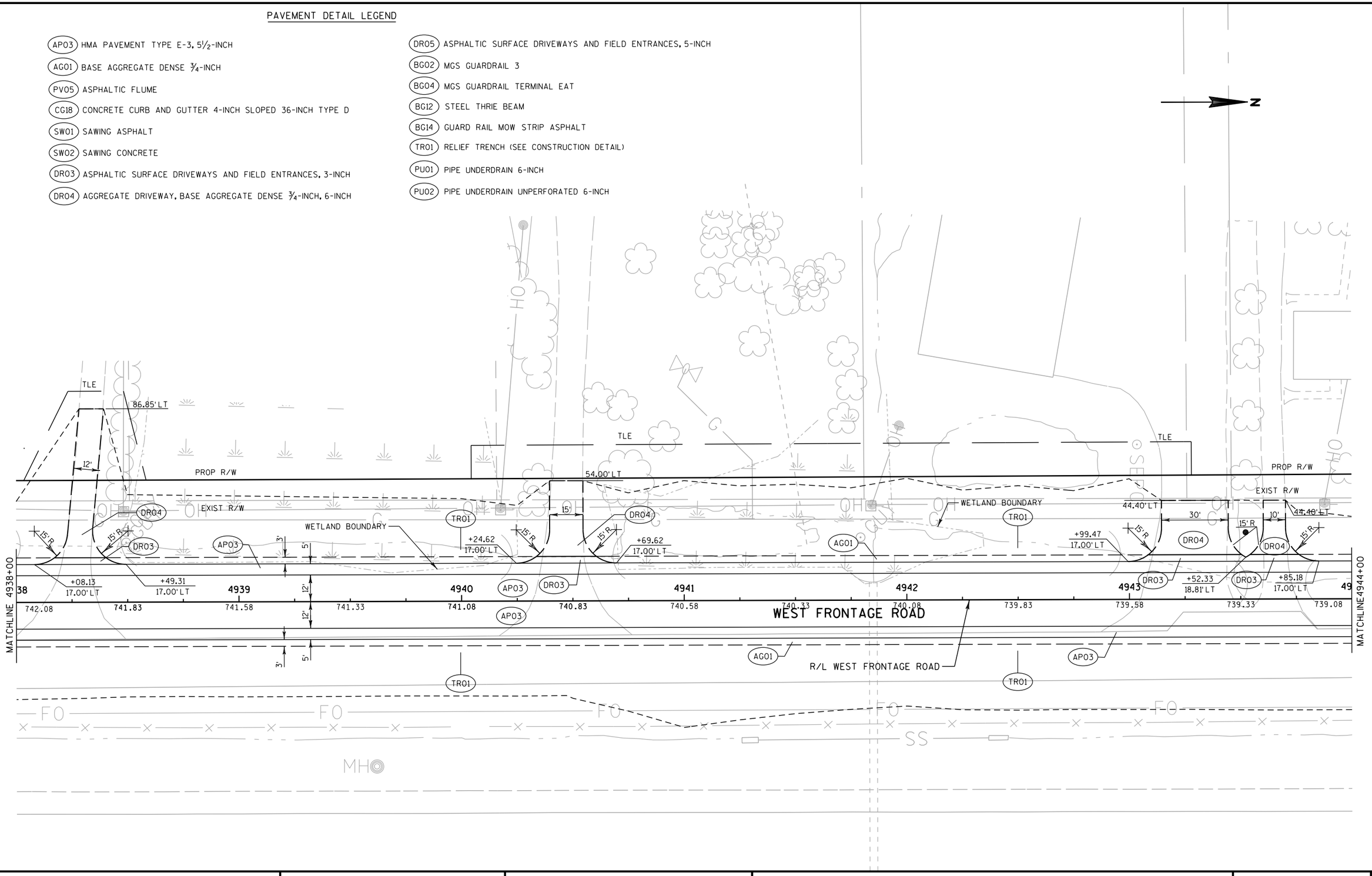
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HSE

2

PAVEMENT DETAIL LEGEND

- APO3 HMA PAVEMENT TYPE E-3, 5½-INCH
- AGO1 BASE AGGREGATE DENSE ¾-INCH
- PVO5 ASPHALTIC FLUME
- CG18 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- SWO1 SAWING ASPHALT
- SWO2 SAWING CONCRETE
- DRO3 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- DRO4 AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE ¾-INCH, 6-INCH
- DRO5 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 5-INCH
- BGO2 MGS GUARDRAIL 3
- BGO4 MGS GUARDRAIL TERMINAL EAT
- BG12 STEEL THRIE BEAM
- BG14 GUARD RAIL MOW STRIP ASPHALT
- TRO1 RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- PUO1 PIPE UNDERDRAIN 6-INCH
- PUO2 PIPE UNDERDRAIN UNPERFORATED 6-INCH



PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL - WEST FRONTAGE ROAD	SHEET 75	E

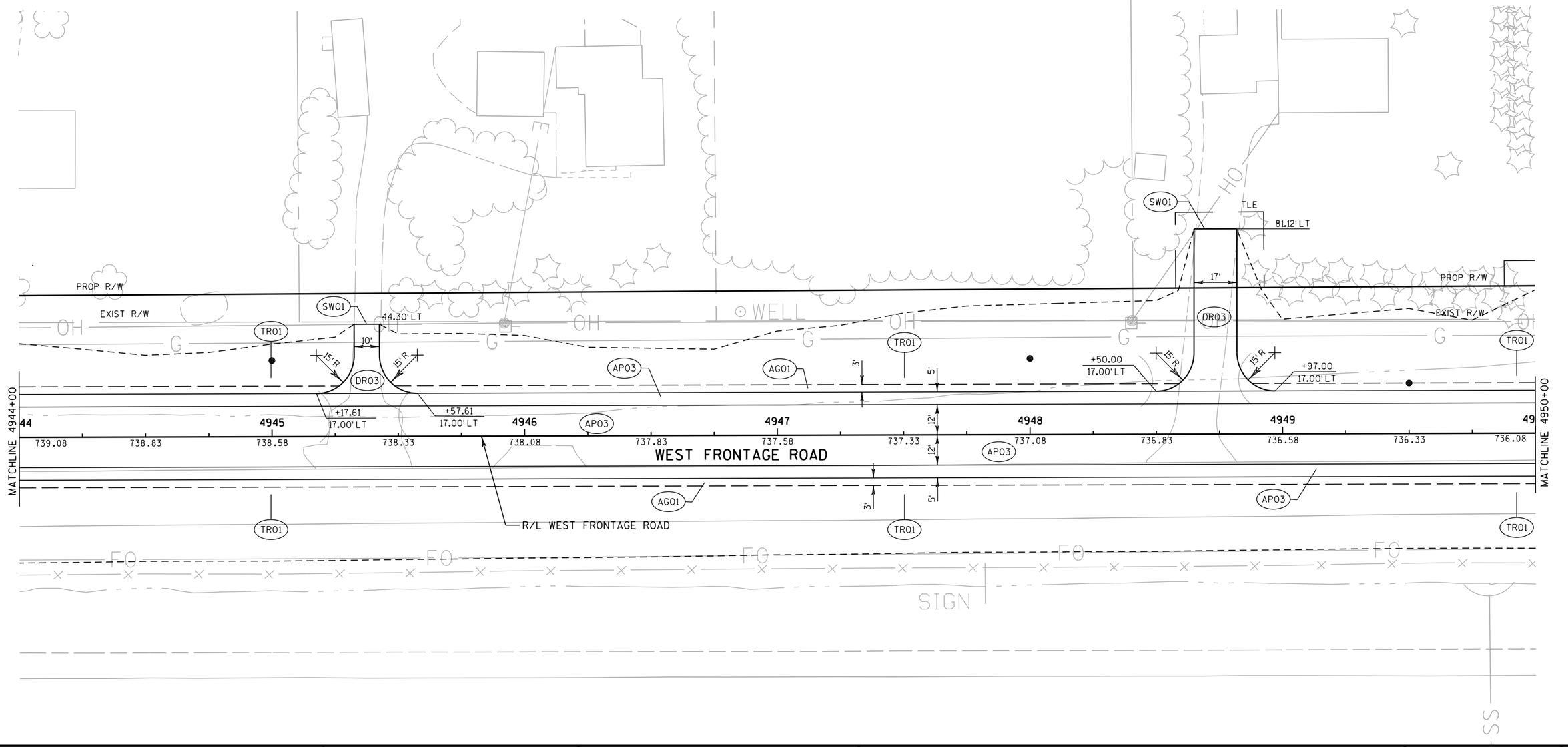
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WISDOT/CADDS SHEET 42

2

PAVEMENT DETAIL LEGEND

- (APO3) HMA PAVEMENT TYPE E-3, 5½-INCH
- (AGO1) BASE AGGREGATE DENSE ¾-INCH
- (PV05) ASPHALTIC FLUME
- (CG18) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- (SW01) SAWING ASPHALT
- (SW02) SAWING CONCRETE
- (DR03) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- (DR04) AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE ¾-INCH, 6-INCH
- (DR05) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 5-INCH
- (BG02) MGS GUARDRAIL 3
- (BG04) MGS GUARDRAIL TERMINAL EAT
- (BG12) STEEL THRIE BEAM
- (BG14) GUARD RAIL MOW STRIP ASPHALT
- (TR01) RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- (PU01) PIPE UNDERDRAIN 6-INCH
- (PU02) PIPE UNDERDRAIN UNPERFORATED 6-INCH



PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL - WEST FRONTAGE ROAD	SHEET 76	E

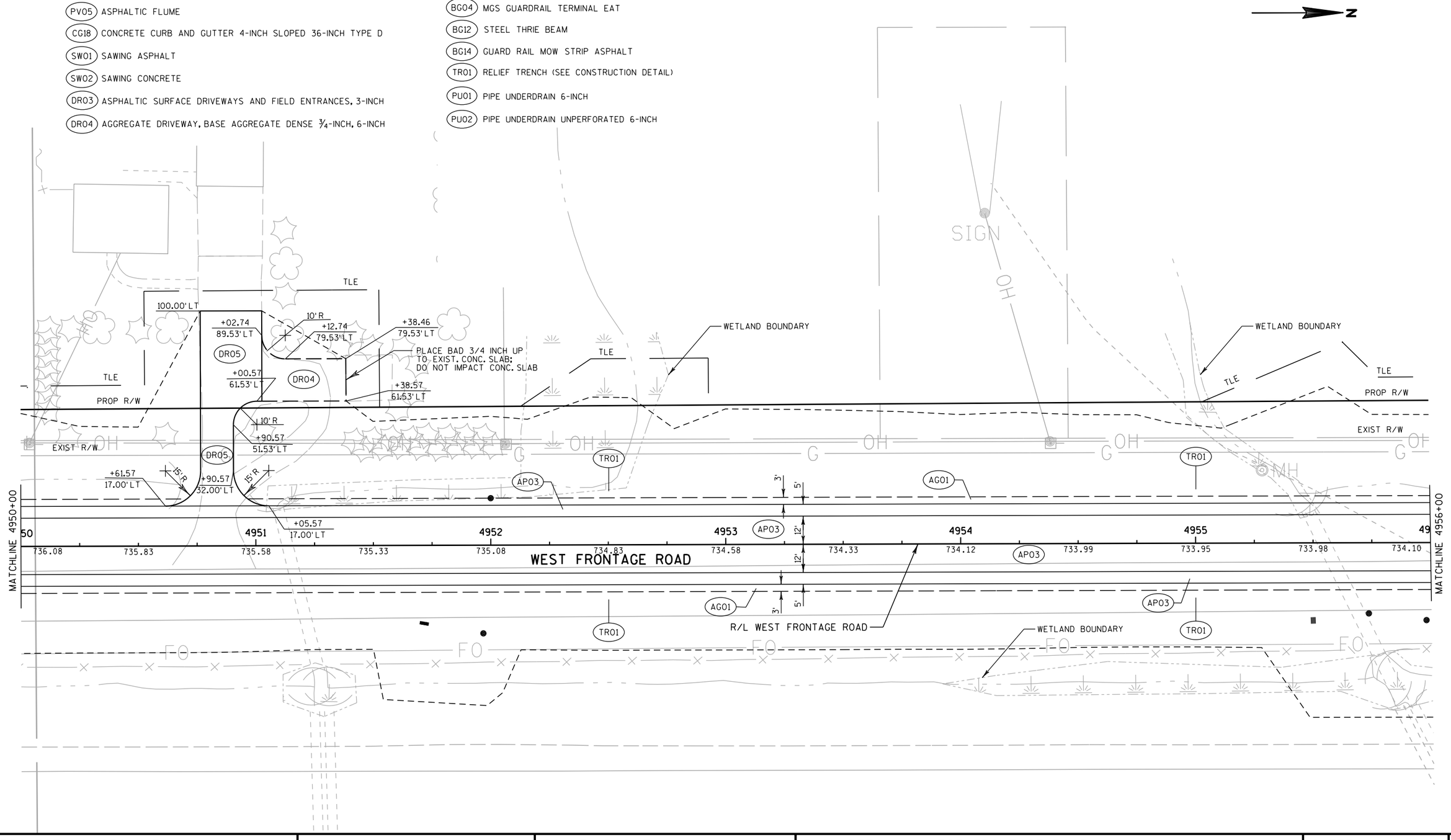
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WISDOT/CADDS SHEET 42

2

PAVEMENT DETAIL LEGEND

- (APO3) HMA PAVEMENT TYPE E-3, 5½-INCH
- (AGO1) BASE AGGREGATE DENSE ¾-INCH
- (PVO5) ASPHALTIC FLUME
- (CG18) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- (SWO1) SAWING ASPHALT
- (SWO2) SAWING CONCRETE
- (DRO3) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- (DRO4) AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE ¾-INCH, 6-INCH
- (DRO5) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 5-INCH
- (BGO2) MGS GUARDRAIL 3
- (BGO4) MGS GUARDRAIL TERMINAL EAT
- (BG12) STEEL THRIE BEAM
- (BG14) GUARD RAIL MOW STRIP ASPHALT
- (TRO1) RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- (PUO1) PIPE UNDERDRAIN 6-INCH
- (PUO2) PIPE UNDERDRAIN UNPERFORATED 6-INCH



PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL - WEST FRONTAGE ROAD	SHEET 77	E

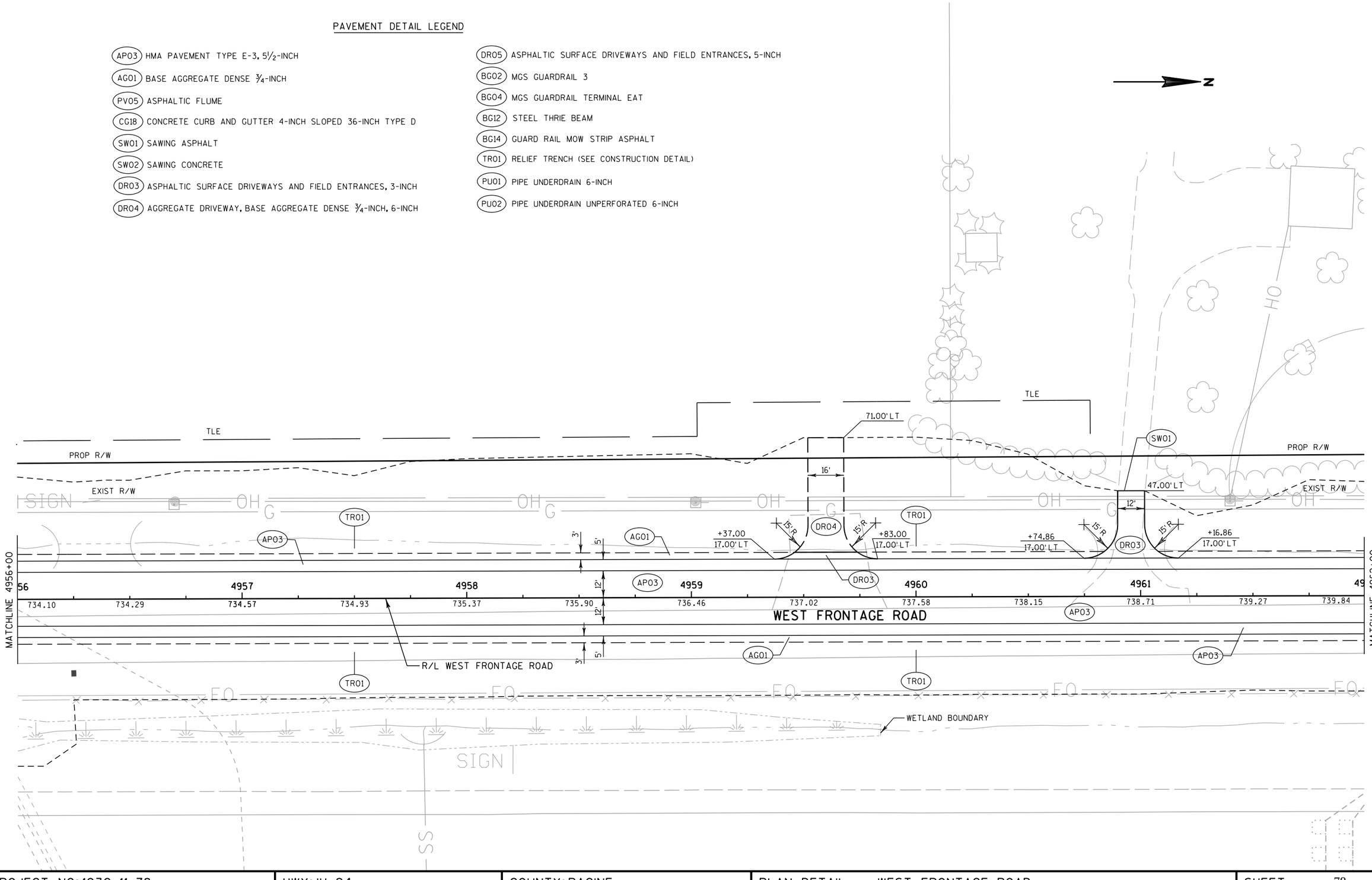
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HSL

2

PAVEMENT DETAIL LEGEND

- (APO3) HMA PAVEMENT TYPE E-3, 5½-INCH
- (AGO1) BASE AGGREGATE DENSE ¾-INCH
- (PVO5) ASPHALTIC FLUME
- (CG18) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- (SWO1) SAWING ASPHALT
- (SWO2) SAWING CONCRETE
- (DRO3) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- (DRO4) AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE ¾-INCH, 6-INCH
- (DRO5) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 5-INCH
- (BGO2) MGS GUARDRAIL 3
- (BGO4) MGS GUARDRAIL TERMINAL EAT
- (BG12) STEEL THRIE BEAM
- (BG14) GUARD RAIL MOW STRIP ASPHALT
- (TRO1) RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- (PU01) PIPE UNDERDRAIN 6-INCH
- (PU02) PIPE UNDERDRAIN UNPERFORATED 6-INCH



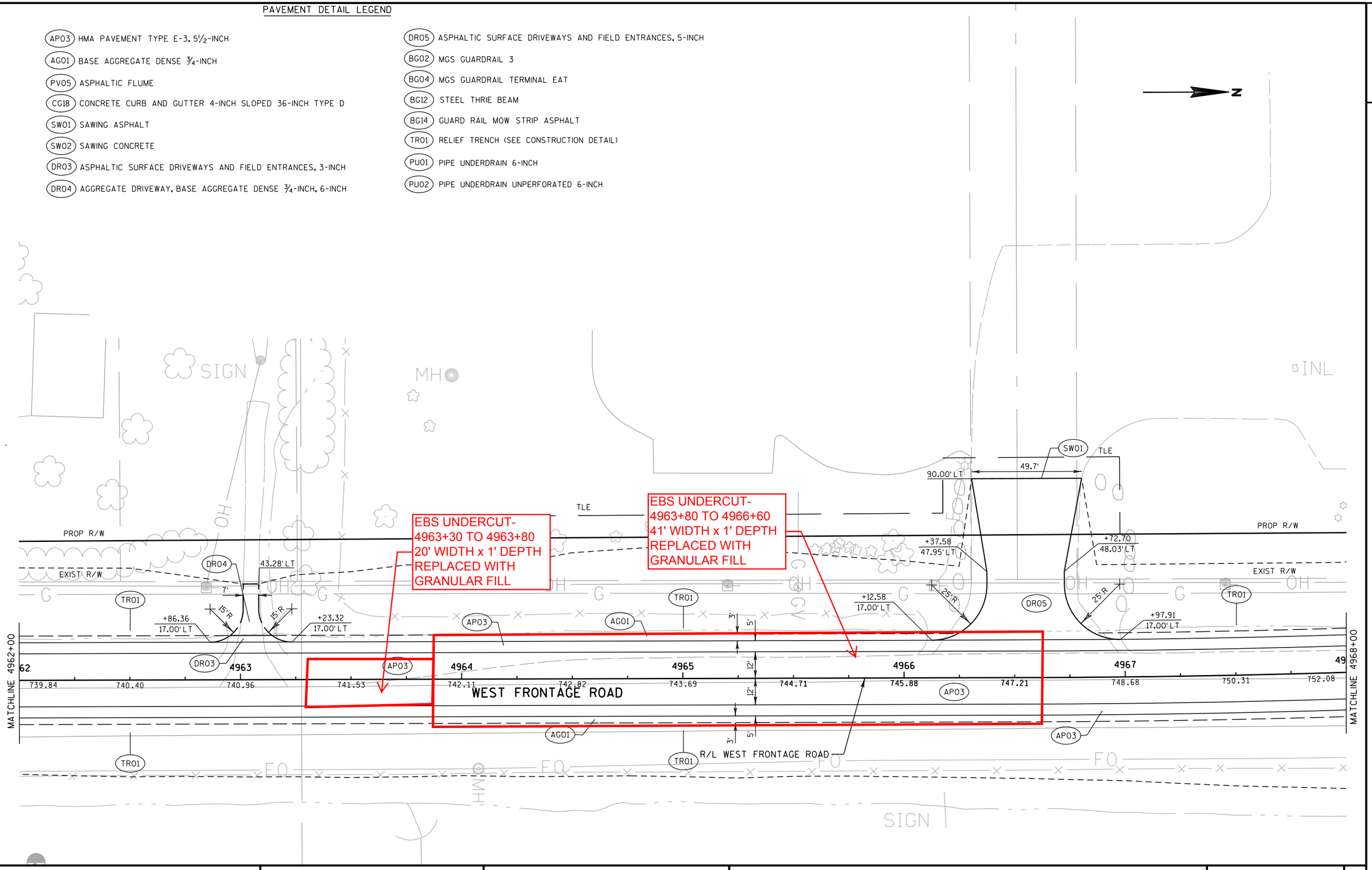
PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL - WEST FRONTAGE ROAD	SHEET 78	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\021235_pd.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:40

2

PAVEMENT DETAIL LEGEND

- APO3 HMA PAVEMENT TYPE E-3, 5½-INCH
- AGO1 BASE AGGREGATE DENSE ¾-INCH
- PVO5 ASPHALTIC FLUME
- CG18 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- SWO1 SAWING ASPHALT
- SWO2 SAWING CONCRETE
- DRO3 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- DRO4 AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE ¾-INCH, 6-INCH
- DRO5 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 5-INCH
- BGO2 MGS GUARDRAIL 3
- BGO4 MGS GUARDRAIL TERMINAL EAT
- BG12 STEEL THRIE BEAM
- BG14 GUARD RAIL MOW STRIP ASPHALT
- TRO1 RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- PUO1 PIPE UNDERDRAIN 6-INCH
- PUO2 PIPE UNDERDRAIN UNPERFORATED 6-INCH



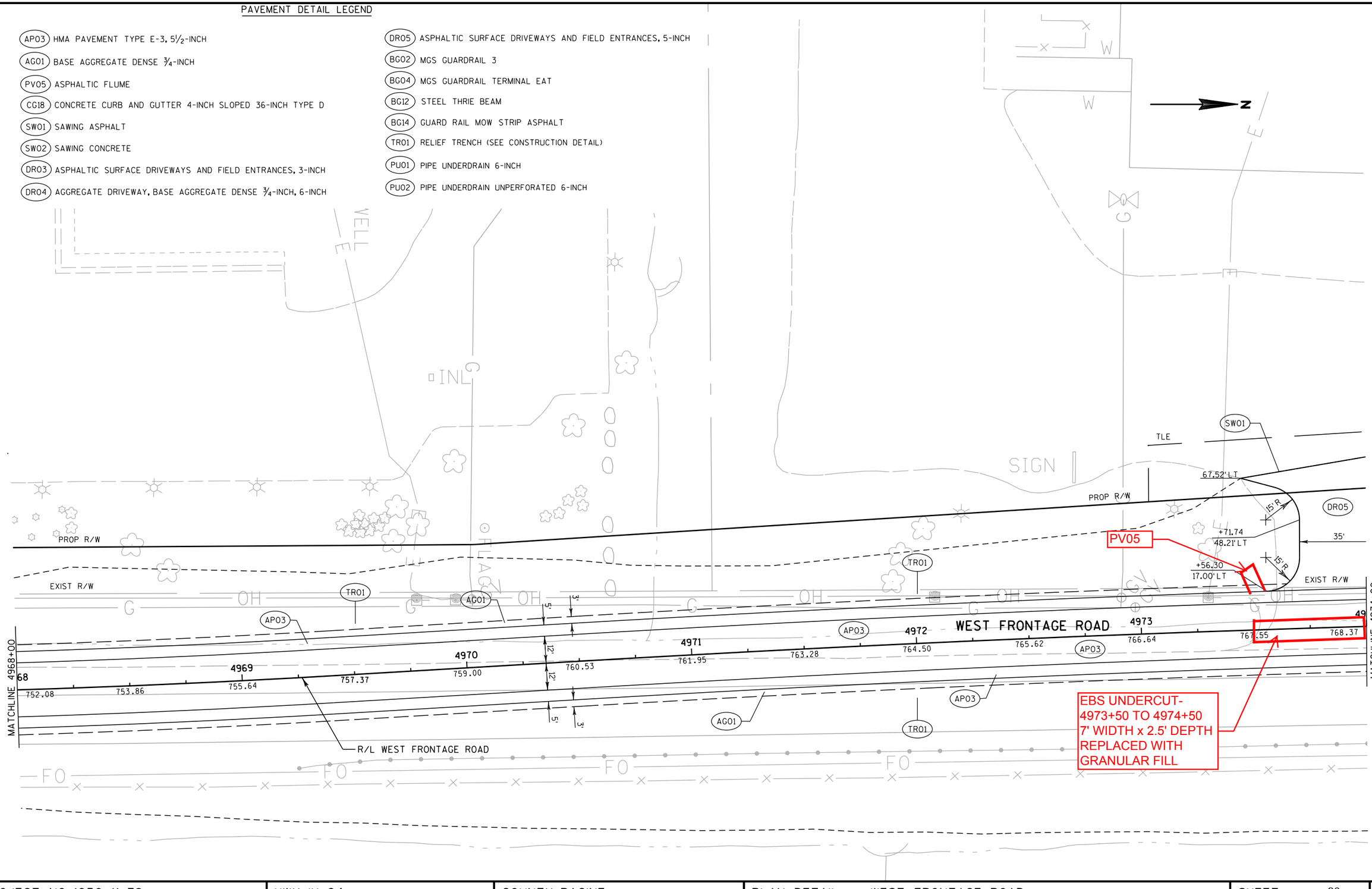
PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL - WEST FRONTAGE ROAD	SHEET 79	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\021236_pd.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:40

2

PAVEMENT DETAIL LEGEND

- APO3 HMA PAVEMENT TYPE E-3, 5½-INCH
- AG01 BASE AGGREGATE DENSE ¾-INCH
- PV05 ASPHALTIC FLUME
- CG18 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- SW01 SAWING ASPHALT
- SW02 SAWING CONCRETE
- DR03 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- DR04 AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE ¾-INCH, 6-INCH
- DR05 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 5-INCH
- BG02 MGS GUARDRAIL 3
- BG04 MGS GUARDRAIL TERMINAL EAT
- BG12 STEEL THRIE BEAM
- BG14 GUARD RAIL MOW STRIP ASPHALT
- TR01 RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- PU01 PIPE UNDERDRAIN 6-INCH
- PU02 PIPE UNDERDRAIN UNPERFORATED 6-INCH



PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL - WEST FRONTAGE ROAD	SHEET 80	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\021237_pd.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

2

PAVEMENT DETAIL LEGEND

- APO3 HMA PAVEMENT TYPE E-3, 5½-INCH
- AGO1 BASE AGGREGATE DENSE ¾-INCH
- PVO5 ASPHALTIC FLUME
- CG18 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- SWO1 SAWING ASPHALT
- SWO2 SAWING CONCRETE
- DRO3 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- DRO4 AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE ¾-INCH, 6-INCH
- DRO5 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 5-INCH
- BGO2 MGS GUARDRAIL 3
- BGO4 MGS GUARDRAIL TERMINAL EAT
- BG12 STEEL THRIE BEAM
- BG14 GUARD RAIL MOW STRIP ASPHALT
- TRO1 RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- PUO1 PIPE UNDERDRAIN 6-INCH
- PUO2 PIPE UNDERDRAIN UNPERFORATED 6-INCH

NOTE: ALL STATION/OFFSETS ARE SHOWN WITH RESPECT TO THE REFERENCE LINE

BEGIN CONSTRUCTION
STA 8+70.00
MATCH EXISTING

RADIUS TABLE					
POINT	STATION	OFFSET	STATION	OFFSET	RADIUS
1	4976+21.10	64.00'	9+36.82	55.00'	40'
2	4977+50.58	84.00'	9+11.28	75.00'	60'

EBS UNDERCUT-
4976+45 TO 4976+55
22' WIDTH x 1' DEPTH
REPLACED WITH
GRANULAR FILL

EBS UNDERCUT-
4976+97 TO 4977+19
38.5' WIDTH x 2' DEPTH
REPLACED WITH
GRANULAR FILL

EBS UNDERCUT-
4978+50 TO 4979+00
24' WIDTH x 1' DEPTH
REPLACED WITH
GRANULAR FILL

EBS UNDERCUT-
4973+50 TO 4974+50
7' WIDTH x 2.5' DEPTH
REPLACED WITH
GRANULAR FILL

EBS UNDERCUT-
4975+40 TO 4976+55
25' WIDTH x 1' DEPTH
REPLACED WITH
GRANULAR FILL

EBS UNDERCUT-
4976+55TO 4976+97
52' WIDTH x 2' DEPTH
REPLACED WITH
GRANULAR FILL

EBS UNDERCUT-
4977+19 TO 4977+44
25' WIDTH x 2' DEPTH
REPLACED WITH
GRANULAR FILL

EBS UNDERCUT-
4977+55 TO 4978+50
27' WIDTH x 1' DEPTH
REPLACED WITH
GRANULAR FILL

EBS UNDERCUT-
4979+00 TO 4979+42
21' WIDTH x 1' DEPTH
REPLACED WITH
GRANULAR FILL

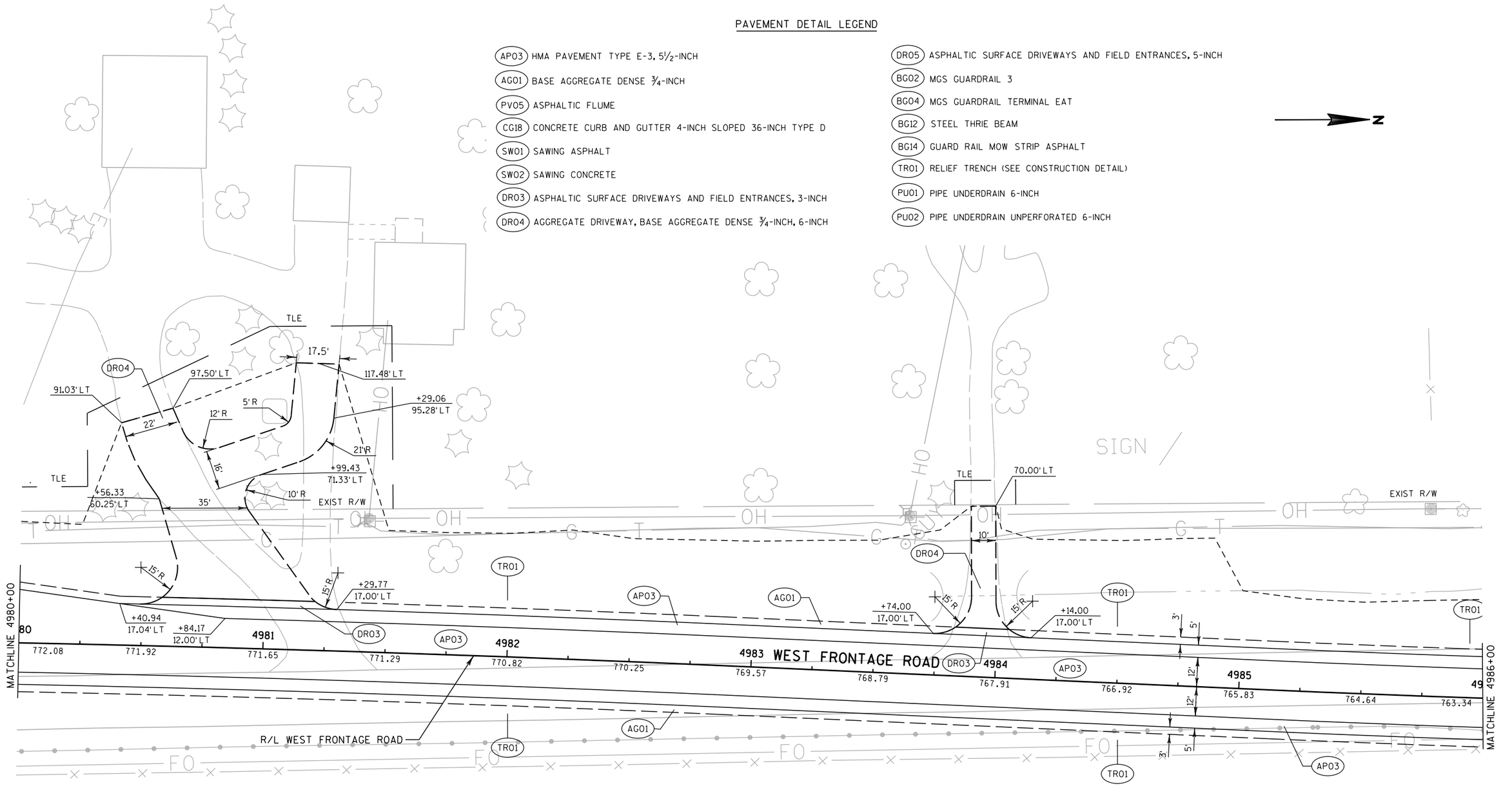
PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL - WEST FRONTAGE ROAD	SHEET 81	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\021238_pd.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : | PLOT SCALE : 1:40

2

PAVEMENT DETAIL LEGEND

- APO3 HMA PAVEMENT TYPE E-3, 5½-INCH
- AGO1 BASE AGGREGATE DENSE ¾-INCH
- PVO5 ASPHALTIC FLUME
- CG18 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- SWO1 SAWING ASPHALT
- SWO2 SAWING CONCRETE
- DRO3 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- DRO4 AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE ¾-INCH, 6-INCH
- DRO5 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 5-INCH
- BGO2 MGS GUARDRAIL 3
- BGO4 MGS GUARDRAIL TERMINAL EAT
- BG12 STEEL THRIE BEAM
- BG14 GUARD RAIL MOW STRIP ASPHALT
- TRO1 RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- PU01 PIPE UNDERDRAIN 6-INCH
- PU02 PIPE UNDERDRAIN UNPERFORATED 6-INCH



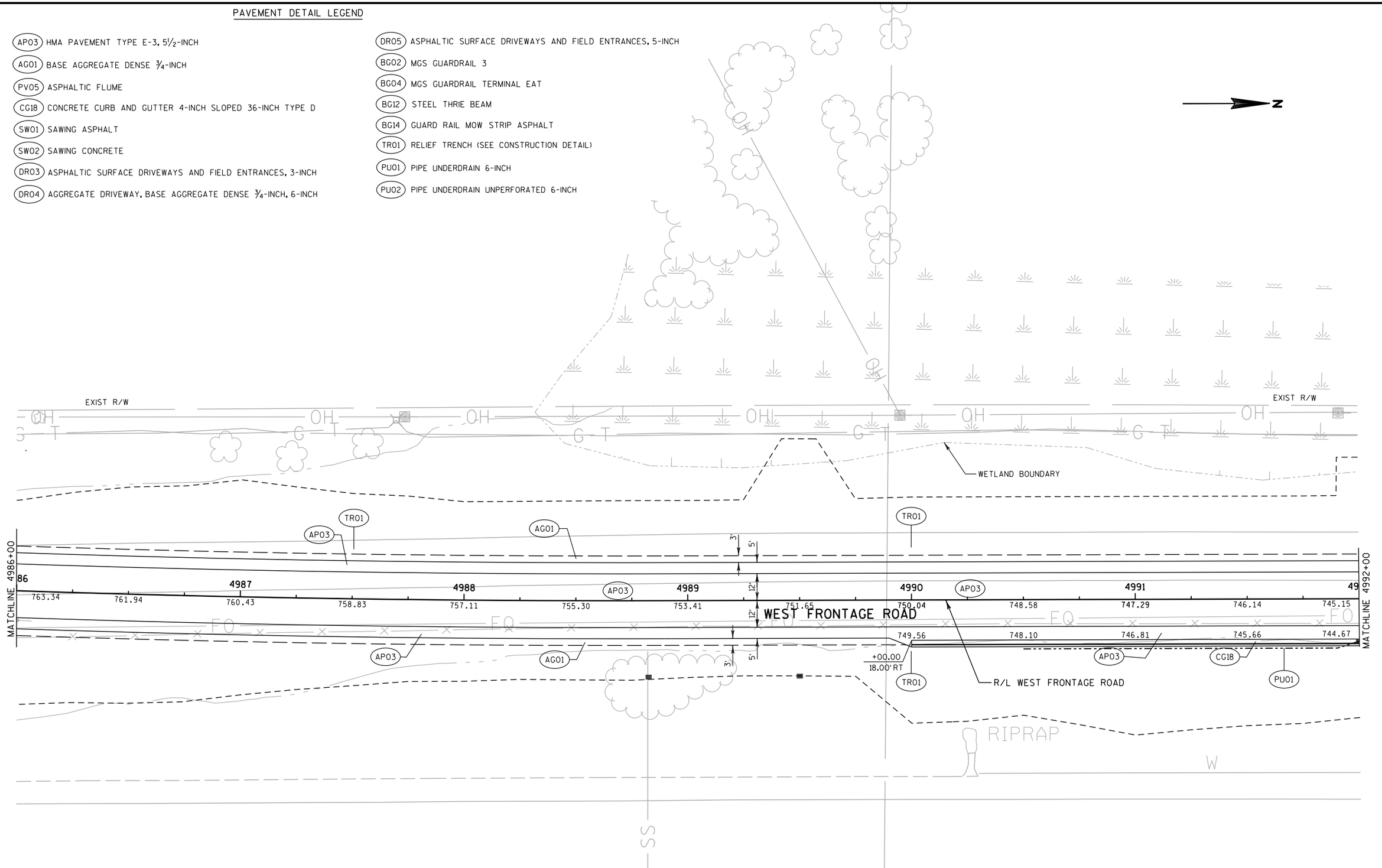
PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL - WEST FRONTAGE ROAD	SHEET 82	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\021239_pd.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : | PLOT SCALE : 1:40

2

PAVEMENT DETAIL LEGEND

- APO3 HMA PAVEMENT TYPE E-3, 5½-INCH
- AGO1 BASE AGGREGATE DENSE ¾-INCH
- PVO5 ASPHALTIC FLUME
- CG18 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- SWO1 SAWING ASPHALT
- SWO2 SAWING CONCRETE
- DRO3 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- DRO4 AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE ¾-INCH, 6-INCH
- DRO5 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 5-INCH
- BGO2 MGS GUARDRAIL 3
- BGO4 MGS GUARDRAIL TERMINAL EAT
- BG12 STEEL THRIE BEAM
- BG14 GUARD RAIL MOW STRIP ASPHALT
- TRO1 RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- PUO1 PIPE UNDERDRAIN 6-INCH
- PUO2 PIPE UNDERDRAIN UNPERFORATED 6-INCH



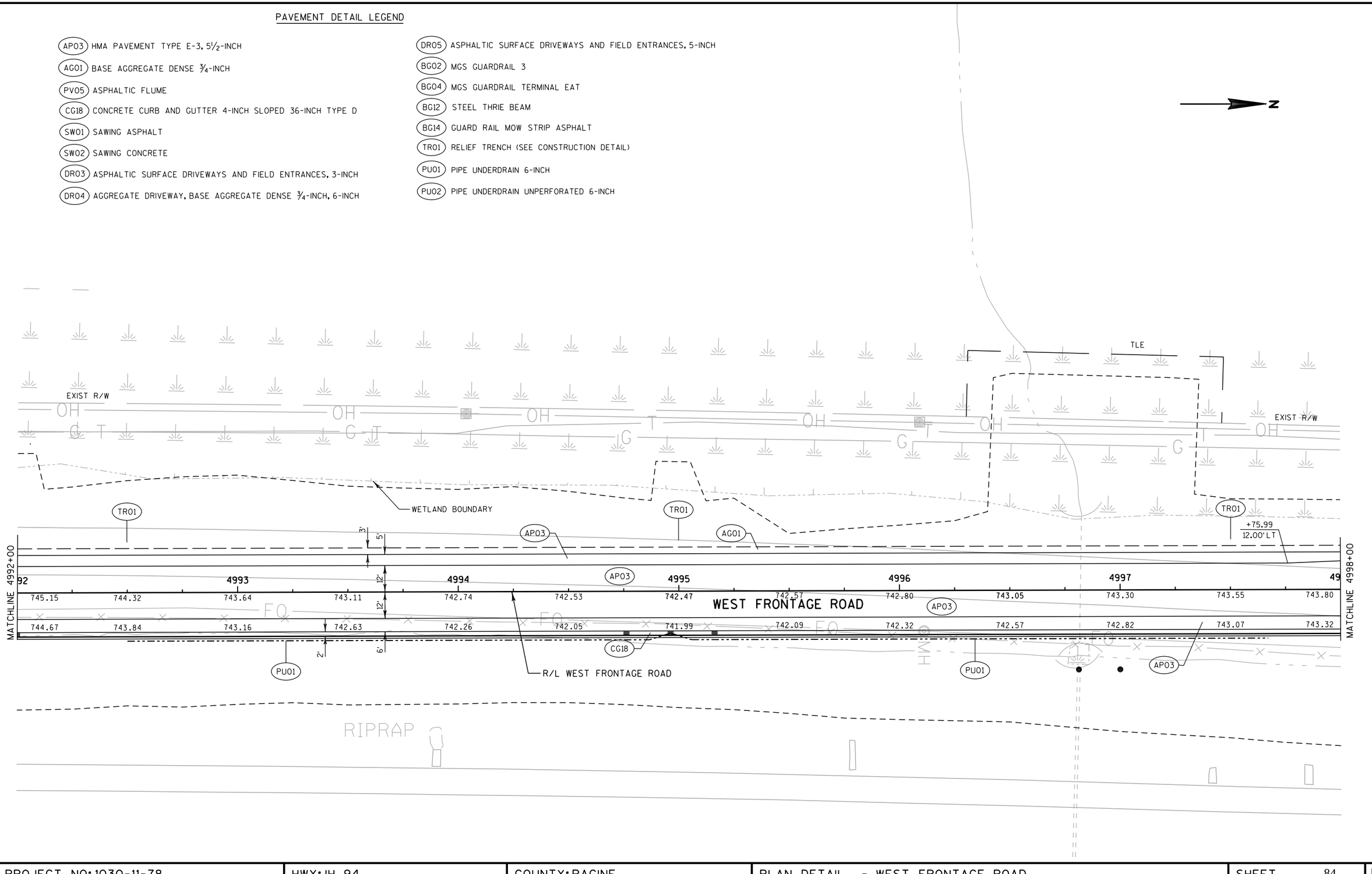
PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL - WEST FRONTAGE ROAD	SHEET 83	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\021240_pd.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : | PLOT SCALE : 1:40

2

PAVEMENT DETAIL LEGEND

- (APO3) HMA PAVEMENT TYPE E-3, 5½-INCH
- (AGO1) BASE AGGREGATE DENSE ¾-INCH
- (PVO5) ASPHALTIC FLUME
- (CG18) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- (SWO1) SAWING ASPHALT
- (SWO2) SAWING CONCRETE
- (DRO3) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- (DRO4) AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE ¾-INCH, 6-INCH
- (DRO5) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 5-INCH
- (BGO2) MGS GUARDRAIL 3
- (BGO4) MGS GUARDRAIL TERMINAL EAT
- (BG12) STEEL THRIE BEAM
- (BG14) GUARD RAIL MOW STRIP ASPHALT
- (TRO1) RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- (PU01) PIPE UNDERDRAIN 6-INCH
- (PU02) PIPE UNDERDRAIN UNPERFORATED 6-INCH



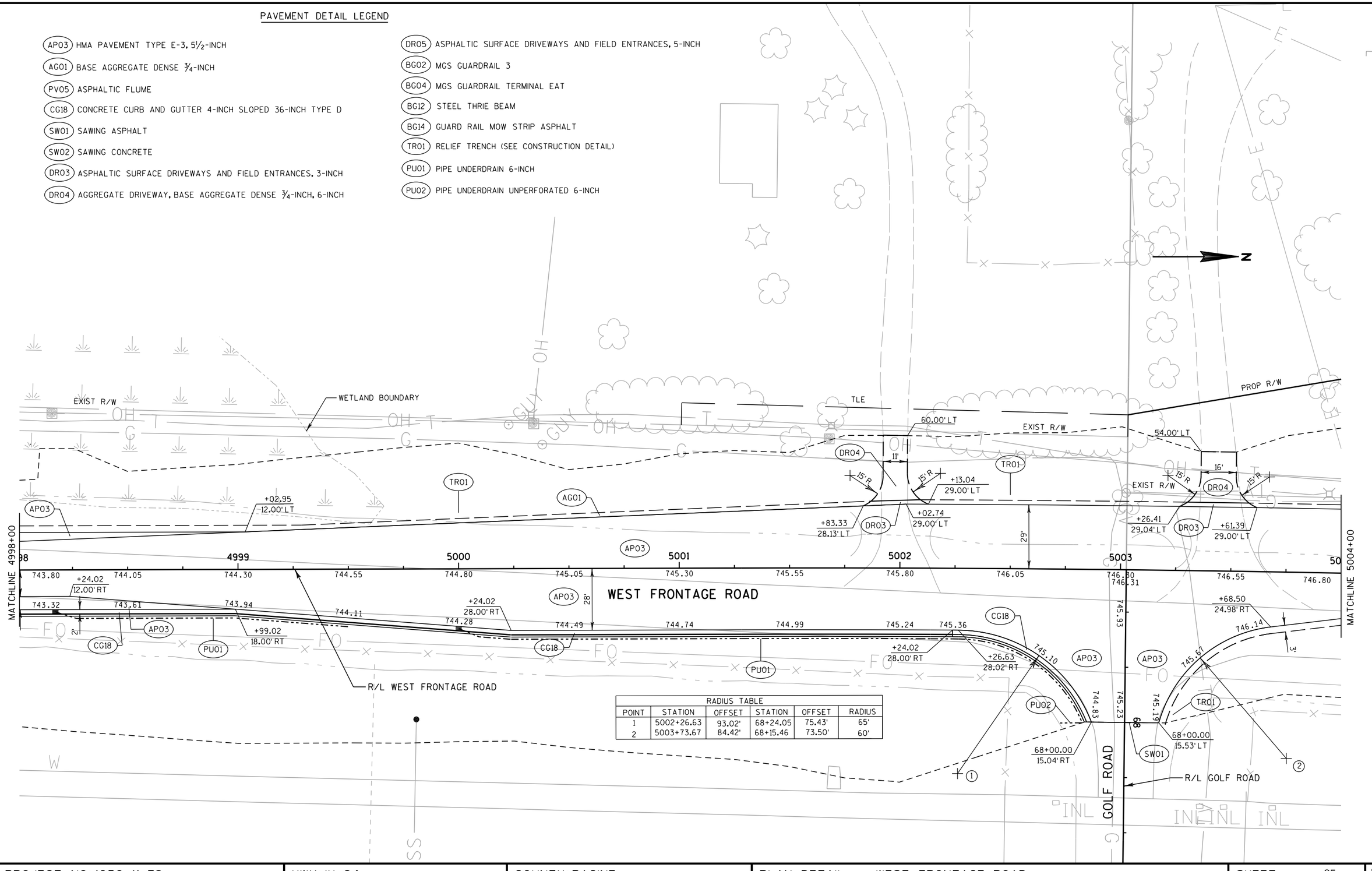
PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL - WEST FRONTAGE ROAD	SHEET 84	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\021241_pd.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:40

2

PAVEMENT DETAIL LEGEND

- APO3 HMA PAVEMENT TYPE E-3, 5½-INCH
- AG01 BASE AGGREGATE DENSE ¾-INCH
- PV05 ASPHALTIC FLUME
- CG18 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- SW01 SAWING ASPHALT
- SW02 SAWING CONCRETE
- DR03 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- DR04 AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE ¾-INCH, 6-INCH
- DR05 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 5-INCH
- BG02 MGS GUARDRAIL 3
- BG04 MGS GUARDRAIL TERMINAL EAT
- BG12 STEEL THRIE BEAM
- BG14 GUARD RAIL MOW STRIP ASPHALT
- TR01 RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- PU01 PIPE UNDERDRAIN 6-INCH
- PU02 PIPE UNDERDRAIN UNPERFORATED 6-INCH



RADIUS TABLE					
POINT	STATION	OFFSET	STATION	OFFSET	RADIUS
1	5002+26.63	93.02'	68+24.05	75.43'	65'
2	5003+73.67	84.42'	68+15.46	73.50'	60'

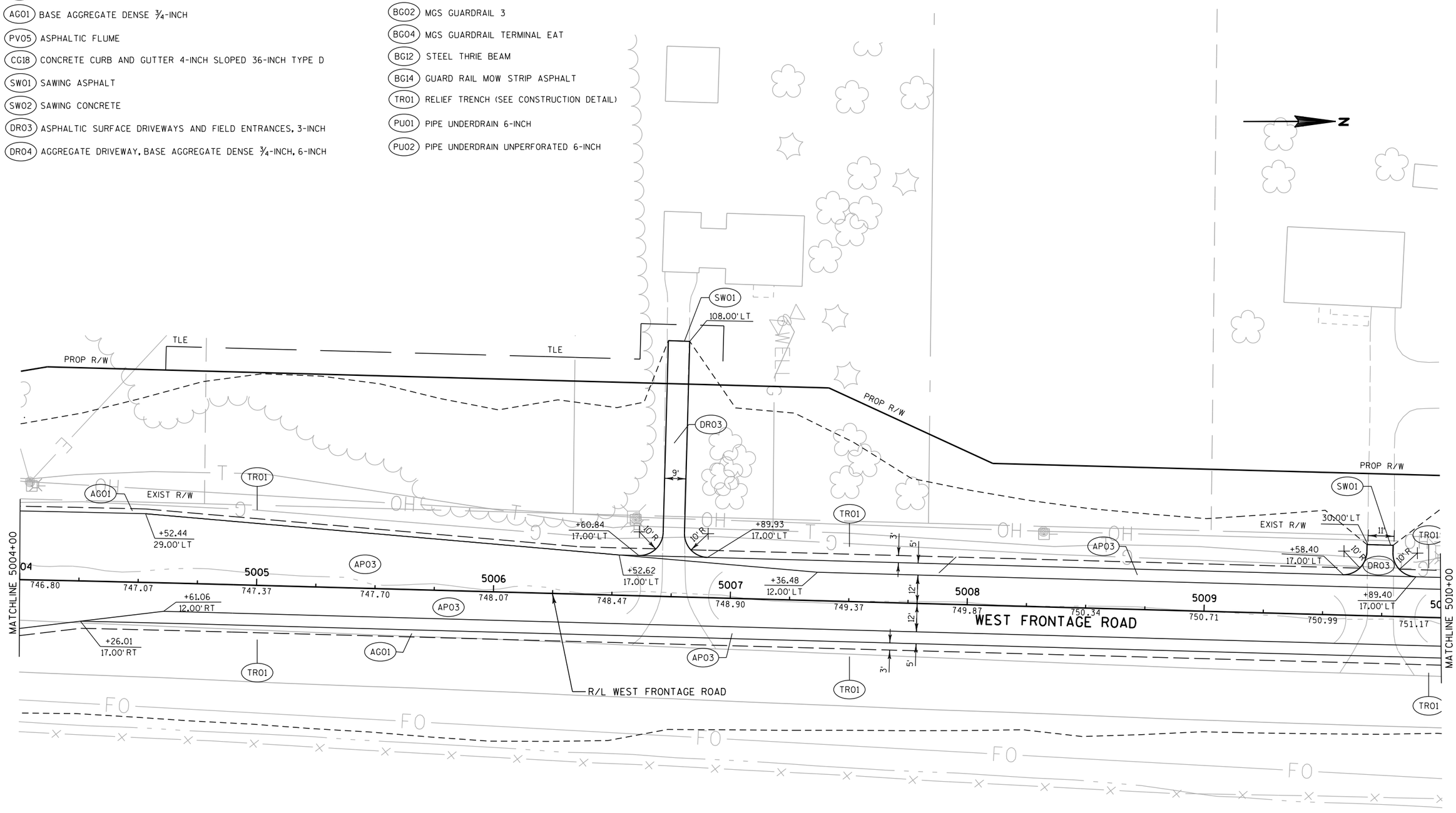
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FILE NAME : Z:\Racine\CADDS\16\16E\CDS\021242_pd.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:40

2

PAVEMENT DETAIL LEGEND

- APO3 HMA PAVEMENT TYPE E-3, 5½-INCH
- AGO1 BASE AGGREGATE DENSE ¾-INCH
- PVO5 ASPHALTIC FLUME
- CG18 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- SWO1 SAWING ASPHALT
- SWO2 SAWING CONCRETE
- DRO3 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- DRO4 AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE ¾-INCH, 6-INCH
- DRO5 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 5-INCH
- BGO2 MGS GUARDRAIL 3
- BGO4 MGS GUARDRAIL TERMINAL EAT
- BG12 STEEL THRIE BEAM
- BG14 GUARD RAIL MOW STRIP ASPHALT
- TRO1 RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- PUO1 PIPE UNDERDRAIN 6-INCH
- PUO2 PIPE UNDERDRAIN UNPERFORATED 6-INCH



PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL - WEST FRONTAGE ROAD	SHEET 86	E

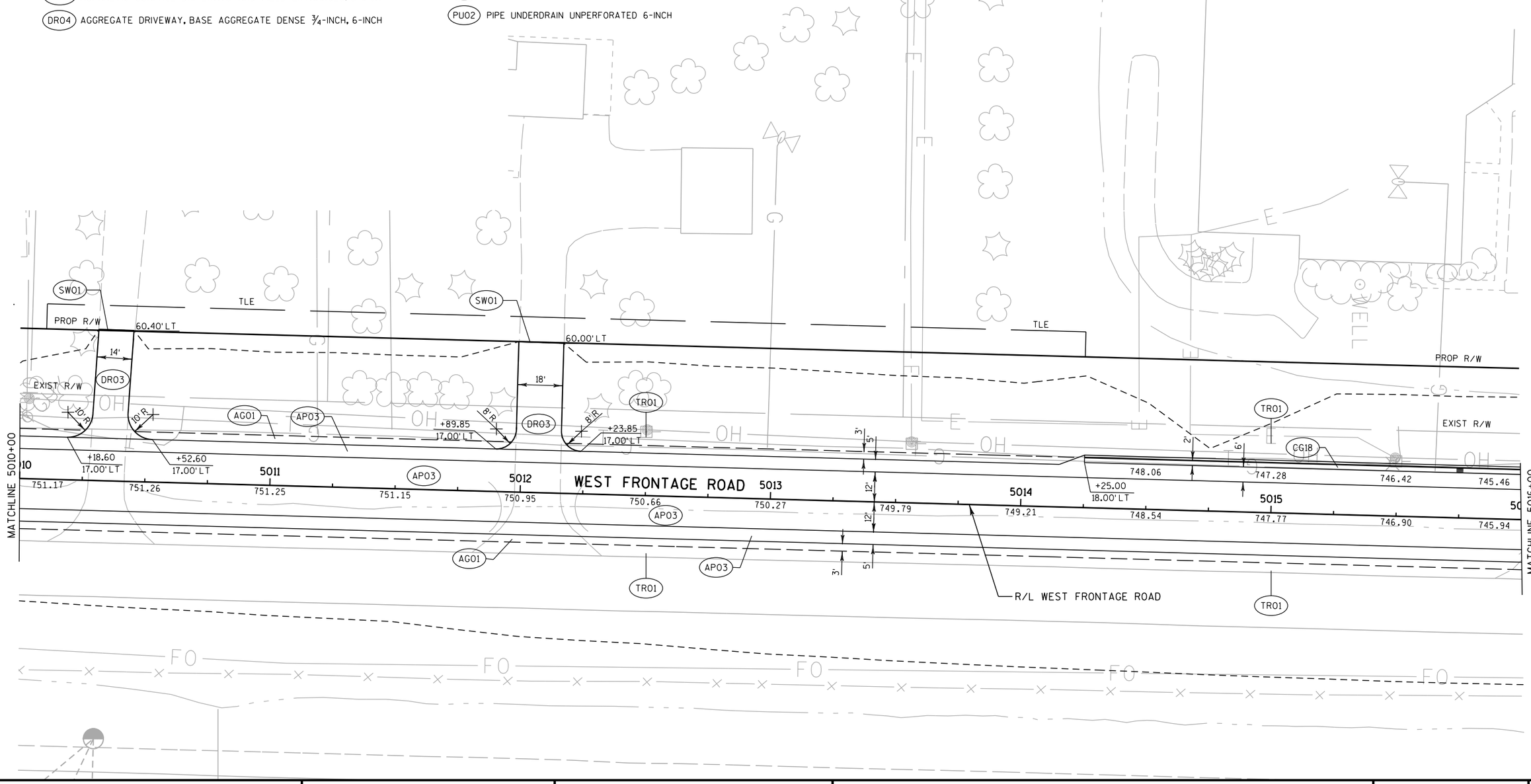
FILE NAME : Z:\Racine\CADDS\16\16E\CDS\021243_pd.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:40

PSL

2

PAVEMENT DETAIL LEGEND

- APO3 HMA PAVEMENT TYPE E-3, 5½-INCH
- AGO1 BASE AGGREGATE DENSE ¾-INCH
- PVO5 ASPHALTIC FLUME
- CG18 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- SWO1 SAWING ASPHALT
- SWO2 SAWING CONCRETE
- DRO3 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- DRO4 AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE ¾-INCH, 6-INCH
- DRO5 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 5-INCH
- BGO2 MGS GUARDRAIL 3
- BGO4 MGS GUARDRAIL TERMINAL EAT
- BG12 STEEL THRIE BEAM
- BG14 GUARD RAIL MOW STRIP ASPHALT
- TRO1 RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- PUO1 PIPE UNDERDRAIN 6-INCH
- PUO2 PIPE UNDERDRAIN UNPERFORATED 6-INCH



PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL - WEST FRONTAGE ROAD	SHEET 87	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\021244_pd.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:40

2

PAVEMENT DETAIL LEGEND

- (APO3) HMA PAVEMENT TYPE E-3, 5½-INCH
- (AGO1) BASE AGGREGATE DENSE ¾-INCH
- (PVO5) ASPHALTIC FLUME
- (CG18) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- (SWO1) SAWING ASPHALT
- (SWO2) SAWING CONCRETE
- (DRO3) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- (DRO4) AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE ¾-INCH, 6-INCH
- (DRO5) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 5-INCH
- (BGO2) MGS GUARDRAIL 3
- (BGO4) MGS GUARDRAIL TERMINAL EAT
- (BG12) STEEL THRIE BEAM
- (BG14) GUARD RAIL MOW STRIP ASPHALT
- (TRO1) RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- (PUO1) PIPE UNDERDRAIN 6-INCH
- (PUO2) PIPE UNDERDRAIN UNPERFORATED 6-INCH

RADIUS TABLE					
POINT	STATION	OFFSET	STATION	OFFSET	RADIUS
1	5019+94.76	64.00'	19+36.35	55.00'	40'
2	2021+18.32	88.00'	19+11.52	74.97	60'

BEGIN CONSTRUCTION
STA 18+00.00
MATCH EXISTING

R/L NICHOLAS ROAD

NICHOLAS ROAD

R/L WEST FRONTAGE ROAD

WEST FRONTAGE ROAD

STATION EQUATION
STA 5020+49.47 BK=
STA 2020+42.87 AH

MATCHLINE 5016+00

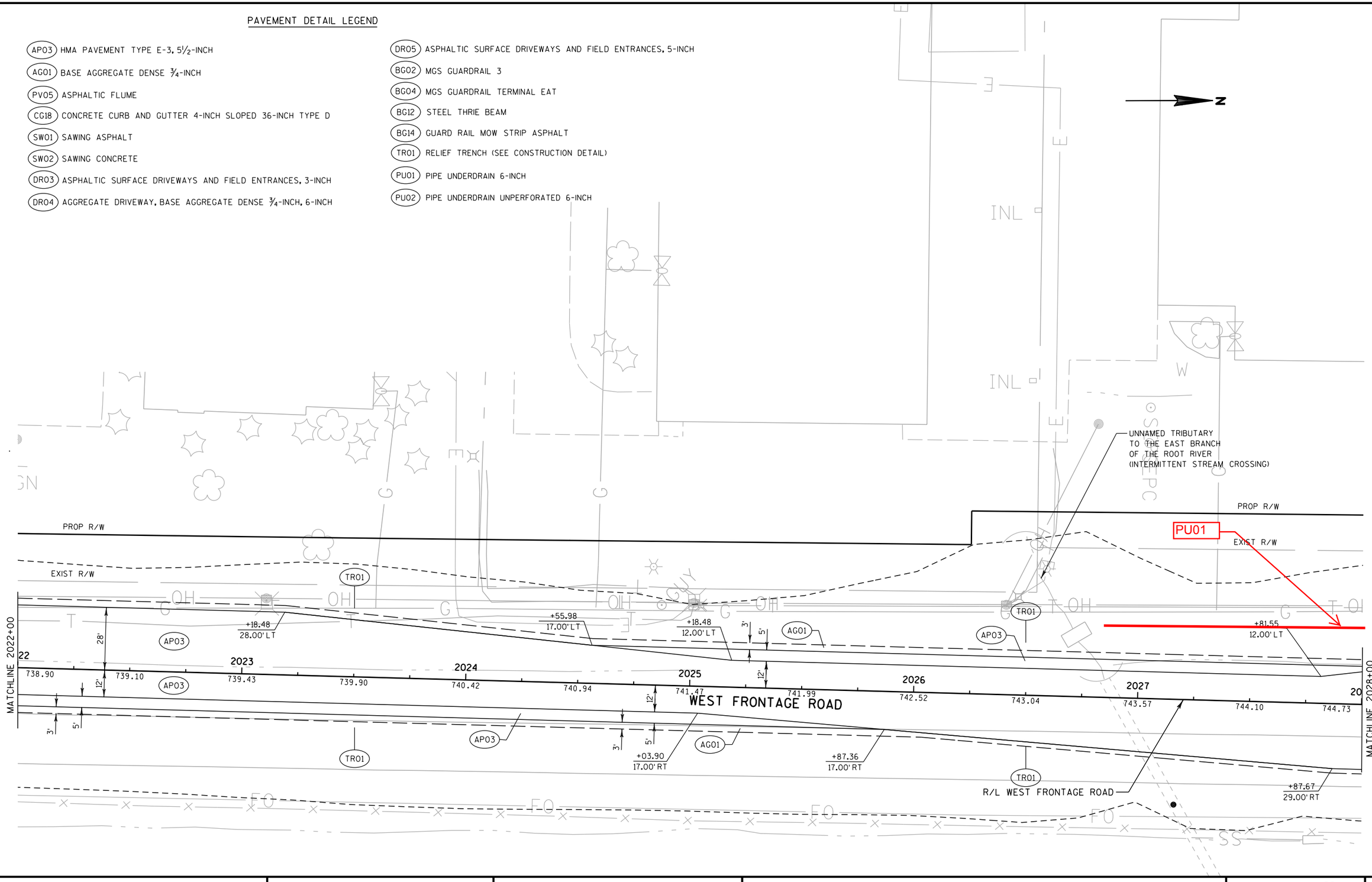
MATCHLINE 2022+00

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL - WEST FRONTAGE ROAD	SHEET 88	E

2

PAVEMENT DETAIL LEGEND

- APO3 HMA PAVEMENT TYPE E-3, 5½-INCH
- AGO1 BASE AGGREGATE DENSE ¾-INCH
- PVO5 ASPHALTIC FLUME
- CG18 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- SWO1 SAWING ASPHALT
- SWO2 SAWING CONCRETE
- DRO3 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- DRO4 AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE ¾-INCH, 6-INCH
- DRO5 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 5-INCH
- BGO2 MGS GUARDRAIL 3
- BGO4 MGS GUARDRAIL TERMINAL EAT
- BG12 STEEL THRIE BEAM
- BG14 GUARD RAIL MOW STRIP ASPHALT
- TRO1 RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- PUO1 PIPE UNDERDRAIN 6-INCH
- PUO2 PIPE UNDERDRAIN UNPERFORATED 6-INCH

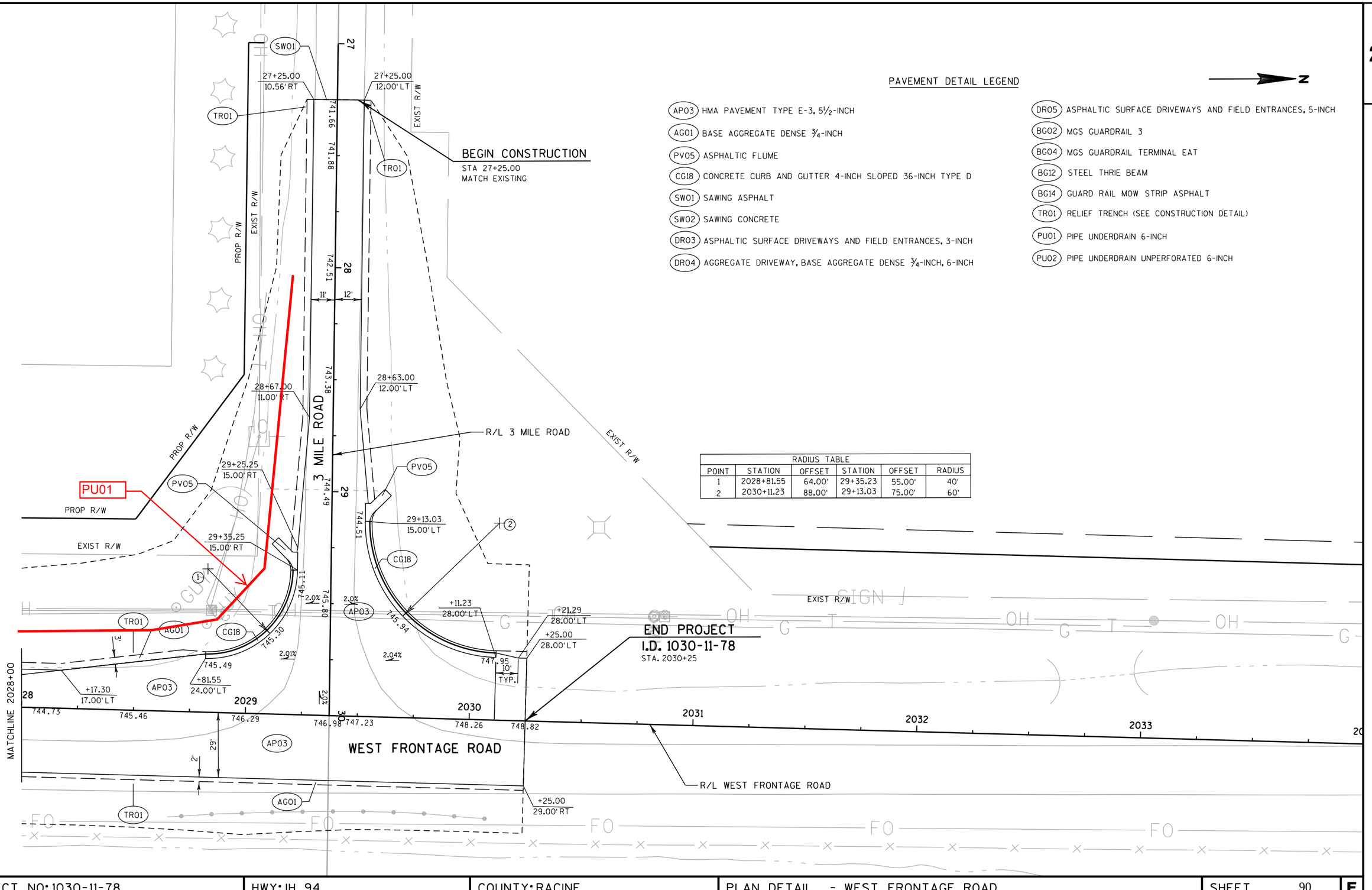


PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL - WEST FRONTAGE ROAD	SHEET 89	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\021246_pd.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

2



PAVEMENT DETAIL LEGEND

N

- APO3 HMA PAVEMENT TYPE E-3, 5½-INCH
- AG01 BASE AGGREGATE DENSE ¾-INCH
- PV05 ASPHALTIC FLUME
- CG18 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- SW01 SAWING ASPHALT
- SW02 SAWING CONCRETE
- DR03 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- DR04 AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE ¾-INCH, 6-INCH
- DR05 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 5-INCH
- BG02 MGS GUARDRAIL 3
- BG04 MGS GUARDRAIL TERMINAL EAT
- BG12 STEEL THRIE BEAM
- BG14 GUARD RAIL MOW STRIP ASPHALT
- TR01 RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
- PU01 PIPE UNDERDRAIN 6-INCH
- PU02 PIPE UNDERDRAIN UNPERFORATED 6-INCH

RADIUS TABLE

POINT	STATION	OFFSET	STATION	OFFSET	RADIUS
1	2028+81.55	64.00'	29+35.23	55.00'	40'
2	2030+11.23	88.00'	29+13.03	75.00'	60'

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	PLAN DETAIL - WEST FRONTAGE ROAD	SHEET 90	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\021247_pd.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

2

2

N

R/L EVANS LANE

R/L WEST FRONTAGE ROAD

WEST FRONTAGE ROAD

4890 4892 4894 4896 4898 4900 4902 4904

R/L IH 94

IH 94 SB

IH 94 NB

890 892 894 896 898 900 902 904

BEGIN PROJECT
I.D. 1030-11-77
STA. 5897+00.00

5896 5898 5900 5902 5904 5906

MATCHLINE 5908+00

EAST FRONTAGE ROAD

EXIST R/W

PROP R/W

TLE

PROP R/W

TLE

R/L EAST FRONTAGE ROAD

NOTES:

1) WHEN INLET PROTECTION TYPE A AND TYPE B, C, OR D ARE INDICATED AT THE SAME LOCATION, USE TYPE A PRIOR TO THE PLACEMENT OF CURB AND GUTTER AND USE TYPE B, C OR D AFTER THE INLET CASTINGS ARE IN PLACE.

2) IN WETLAND BOUNDARYS, INSTALL SILT FENCE TO THE STATIONS AND OFFSETS INDICATED.

3) RESTORE FENCE REMOVAL LOCATIONS OUTSIDE OF EXCAVATION LIMITS.

EROSION CONTROL LEGEND

	EROSION MAT CLASS I, TYPE B	A	INLET PROTECTION TYPE A
	EROSION MAT CLASS II, TYPE C	C	INLET PROTECTION TYPE C
	SLOPE INTERCEPT	ASPH	ASPHALTIC FLUME
	SILT FENCE		TEMPORARY DITCH CHECK
R	ROCK BAGS		CULVERT PIPE CHECK
F	EROSION CONTROL FILTER BAGS		SURFACE WATER FLOW
	EROSION BALES		RIP RAP (MEDIUM UNLESS NOTED)

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	EROSION CONTROL - EAST FRONTAGE ROAD	SHEET 91	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\022001_EC.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:100

NOTES:

1) WHEN INLET PROTECTION TYPE A AND TYPE B, C, OR D ARE INDICATED AT THE SAME LOCATION, USE TYPE A PRIOR TO THE PLACEMENT OF CURB AND GUTTER AND USE TYPE B, C OR D AFTER THE INLET CASTINGS ARE IN PLACE.

2) IN WETLAND BOUNDARYS, INSTALL SILT FENCE TO THE STATIONS AND OFFSETS INDICATED.

3) RESTORE FENCE REMOVAL LOCATIONS OUTSIDE OF EXCAVATION LIMITS.

EROSION CONTROL LEGEND

#######	EROSION MAT CLASS I, TYPE B	(A)	INLET PROTECTION TYPE A
######	EROSION MAT CLASS II, TYPE C	(C)	INLET PROTECTION TYPE C
_ _ _ /	SLOPE INTERCEPT	ASPH	ASPHALTIC FLUME
—●—	SILT FENCE	△△△	TEMPORARY DITCH CHECK
R	ROCK BAGS	○○○	CULVERT PIPE CHECK
F	EROSION CONTROL FILTER BAGS	~→	SURFACE WATER FLOW
□□	EROSION BALES		RIP RAP (MEDIUM UNLESS NOTED)

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	EROSION CONTROL - EAST FRONTAGE ROAD	SHEET 92	E

2

2

WEST FRONTAGE ROAD

R/L WEST FRONTAGE ROAD

IH 94 SB

IH 94 NB

R/L IH 94

EAST FRONTAGE ROAD

R/L EAST FRONTAGE ROAD

R/L KRAUT ROAD

KRAUT RD

MATCHLINE 5923+00

MATCHLINE 5938+00

NOTES:

1) WHEN INLET PROTECTION TYPE A AND TYPE B, C, OR D ARE INDICATED AT THE SAME LOCATION, USE TYPE A PRIOR TO THE PLACEMENT OF CURB AND GUTTER AND USE TYPE B, C OR D AFTER THE INLET CASTINGS ARE IN PLACE.

2) IN WETLAND BOUNDARYS, INSTALL SILT FENCE TO THE STATIONS AND OFFSETS INDICATED.

3) RESTORE FENCE REMOVAL LOCATIONS OUTSIDE OF EXCAVATION LIMITS.

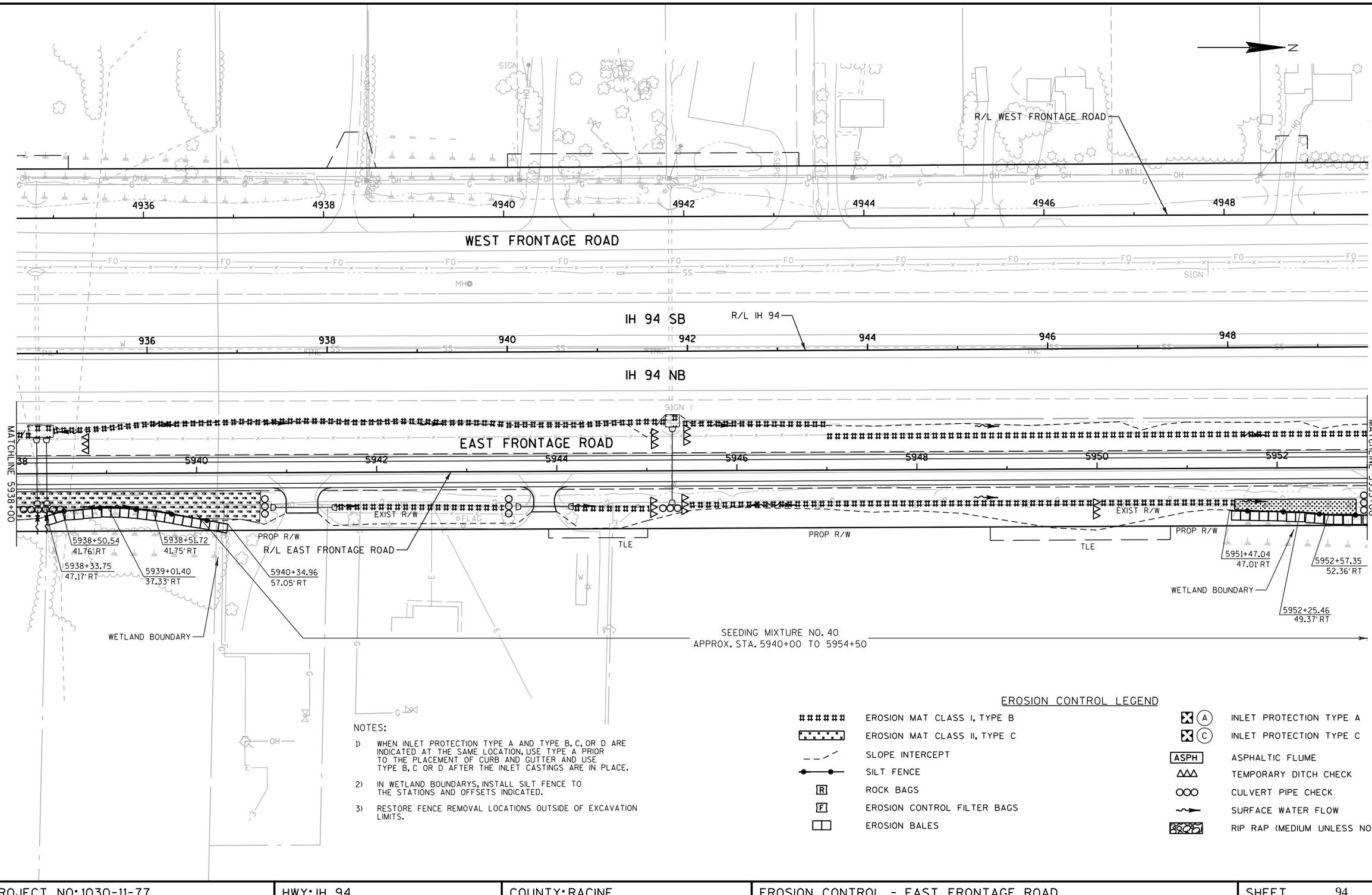
EROSION CONTROL LEGEND

- EROSION MAT CLASS I, TYPE B
- EROSION MAT CLASS II, TYPE C
- SLOPE INTERCEPT
- SILT FENCE
- ROCK BAGS
- EROSION CONTROL FILTER BAGS
- EROSION BALES
- INLET PROTECTION TYPE A
- INLET PROTECTION TYPE C
- ASPHALTIC FLUME
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- RIP RAP (MEDIUM UNLESS NOTED)

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	EROSION CONTROL - EAST FRONTAGE ROAD	SHEET 93	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\022003_EC.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : | PLOT SCALE : 1:100

2



NOTES:

1) WHEN INLET PROTECTION TYPE A AND TYPE B, C, OR D ARE INDICATED AT THE SAME LOCATION, USE TYPE A PRIOR TO THE PLACEMENT OF CURB AND GUTTER AND USE TYPE B, C OR D AFTER THE INLET CASTINGS ARE IN PLACE.

2) IN WETLAND BOUNDARYS, INSTALL SILT FENCE TO THE STATIONS AND OFFSETS INDICATED.

3) RESTORE FENCE REMOVAL LOCATIONS OUTSIDE OF EXCAVATION LIMITS.

EROSION CONTROL LEGEND

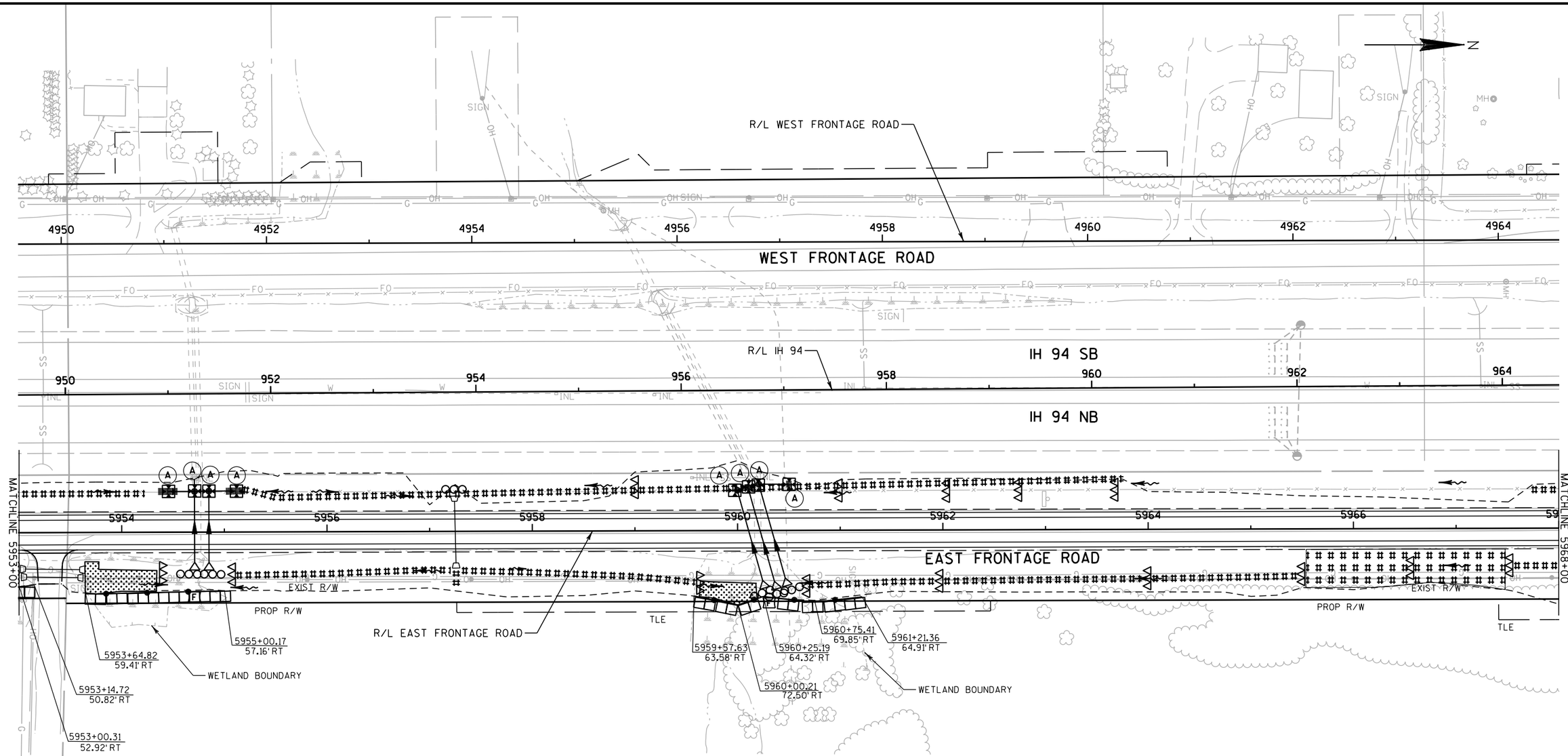
#######	EROSION MAT CLASS I, TYPE B	(A)	INLET PROTECTION TYPE A
▭	EROSION MAT CLASS II, TYPE C	(C)	INLET PROTECTION TYPE C
_ _ /	SLOPE INTERCEPT	ASPH	ASPHALTIC FLUME
●—●	SILT FENCE	△△△	TEMPORARY DITCH CHECK
R	ROCK BAGS	○○○	CULVERT PIPE CHECK
F	EROSION CONTROL FILTER BAGS	~→	SURFACE WATER FLOW
▭▭	EROSION BALES		RIP RAP (MEDIUM UNLESS NOTED)

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	EROSION CONTROL - EAST FRONTAGE ROAD	SHEET 94	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\022004_EC.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : | PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

2



NOTES:

1) WHEN INLET PROTECTION TYPE A AND TYPE B, C, OR D ARE INDICATED AT THE SAME LOCATION, USE TYPE A PRIOR TO THE PLACEMENT OF CURB AND GUTTER AND USE TYPE B, C OR D AFTER THE INLET CASTINGS ARE IN PLACE.

2) IN WETLAND BOUNDARYS, INSTALL SILT FENCE TO THE STATIONS AND OFFSETS INDICATED.

3) RESTORE FENCE REMOVAL LOCATIONS OUTSIDE OF EXCAVATION LIMITS.

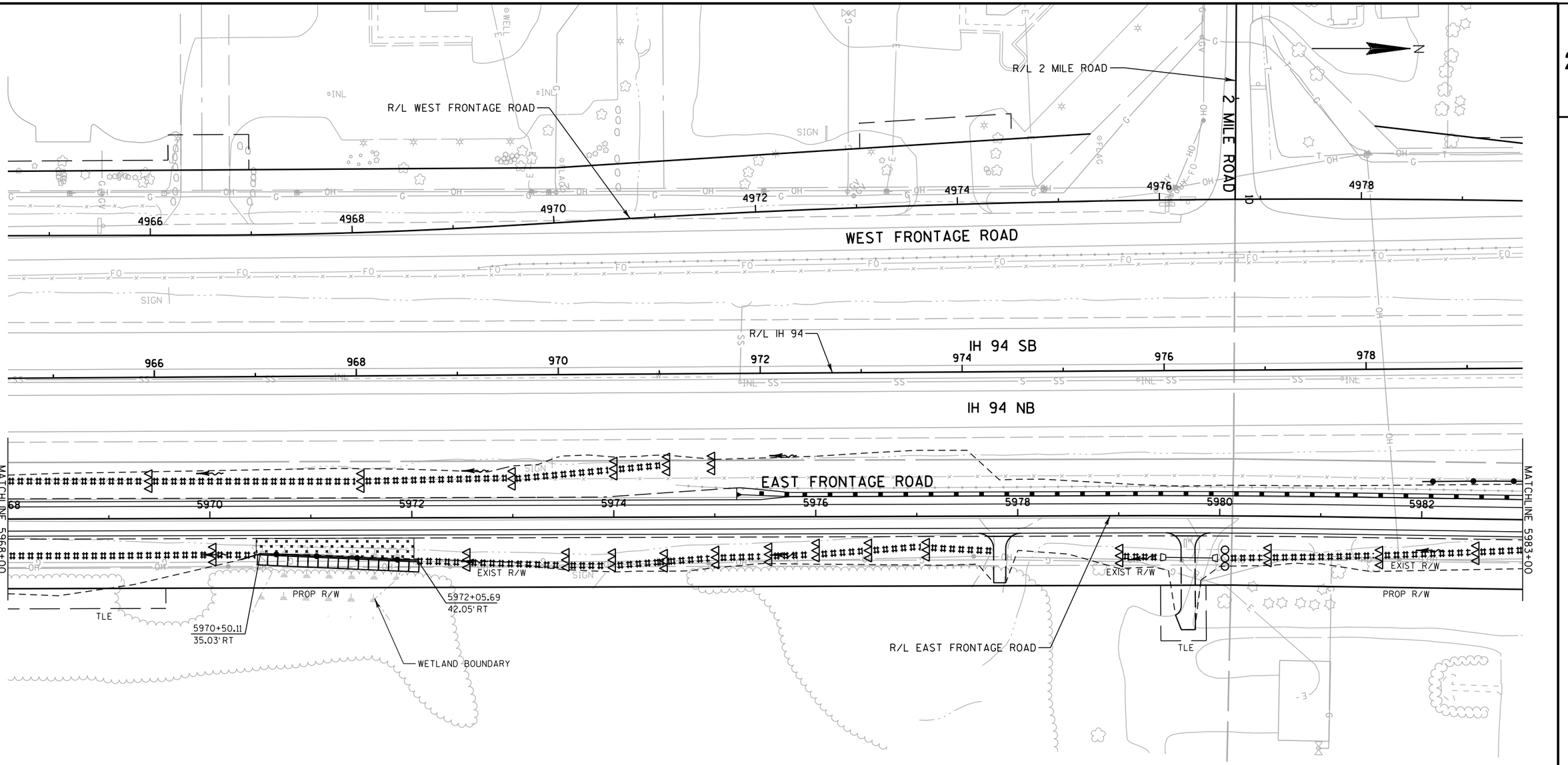
EROSION CONTROL LEGEND

######	EROSION MAT CLASS I, TYPE B	(A)	INLET PROTECTION TYPE A
	EROSION MAT CLASS II, TYPE C	(C)	INLET PROTECTION TYPE C
	SLOPE INTERCEPT	ASPH	ASPHALTIC FLUME
	SILT FENCE	ΔΔΔ	TEMPORARY DITCH CHECK
R	ROCK BAGS	OOO	CULVERT PIPE CHECK
F	EROSION CONTROL FILTER BAGS		SURFACE WATER FLOW
	EROSION BALES		RIP RAP (MEDIUM UNLESS NOTED)

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	EROSION CONTROL - EAST FRONTAGE ROAD	SHEET 95	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\022005_EC.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42



NOTES:

1) WHEN INLET PROTECTION TYPE A AND TYPE B, C, OR D ARE INDICATED AT THE SAME LOCATION, USE TYPE A PRIOR TO THE PLACEMENT OF CURB AND GUTTER AND USE TYPE B, C OR D AFTER THE INLET CASTINGS ARE IN PLACE.

2) IN WETLAND BOUNDARYS, INSTALL SILT FENCE TO THE STATIONS AND OFFSETS INDICATED.

3) RESTORE FENCE REMOVAL LOCATIONS OUTSIDE OF EXCAVATION LIMITS.

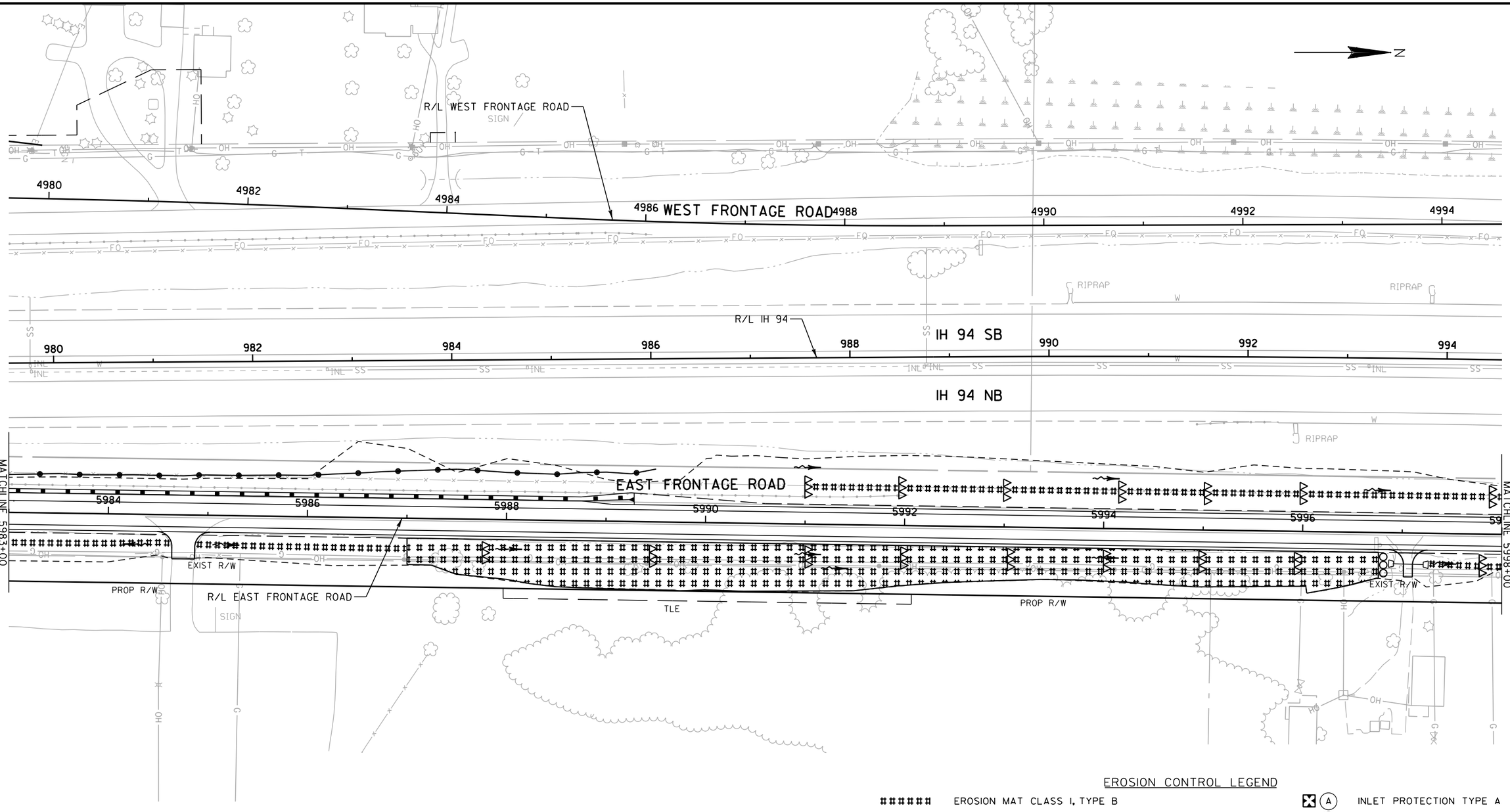
EROSION CONTROL LEGEND

######	EROSION MAT CLASS I, TYPE B	(A)	INLET PROTECTION TYPE A
######	EROSION MAT CLASS II, TYPE C	(C)	INLET PROTECTION TYPE C
_ _ _	SLOPE INTERCEPT	ASPH	ASPHALTIC FLUME
—●—●—	SILT FENCE	△△△	TEMPORARY DITCH CHECK
R	ROCK BAGS	○○○	CULVERT PIPE CHECK
F	EROSION CONTROL FILTER BAGS	~→	SURFACE WATER FLOW
□□	EROSION BALES		RIP RAP (MEDIUM UNLESS NOTED)

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	EROSION CONTROL - EAST FRONTAGE ROAD	SHEET 96	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\022006_EC.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:100

2



2

NOTES:

1) WHEN INLET PROTECTION TYPE A AND TYPE B, C, OR D ARE INDICATED AT THE SAME LOCATION, USE TYPE A PRIOR TO THE PLACEMENT OF CURB AND GUTTER AND USE TYPE B, C OR D AFTER THE INLET CASTINGS ARE IN PLACE.

2) IN WETLAND BOUNDARYS, INSTALL SILT FENCE TO THE STATIONS AND OFFSETS INDICATED.

3) RESTORE FENCE REMOVAL LOCATIONS OUTSIDE OF EXCAVATION LIMITS.

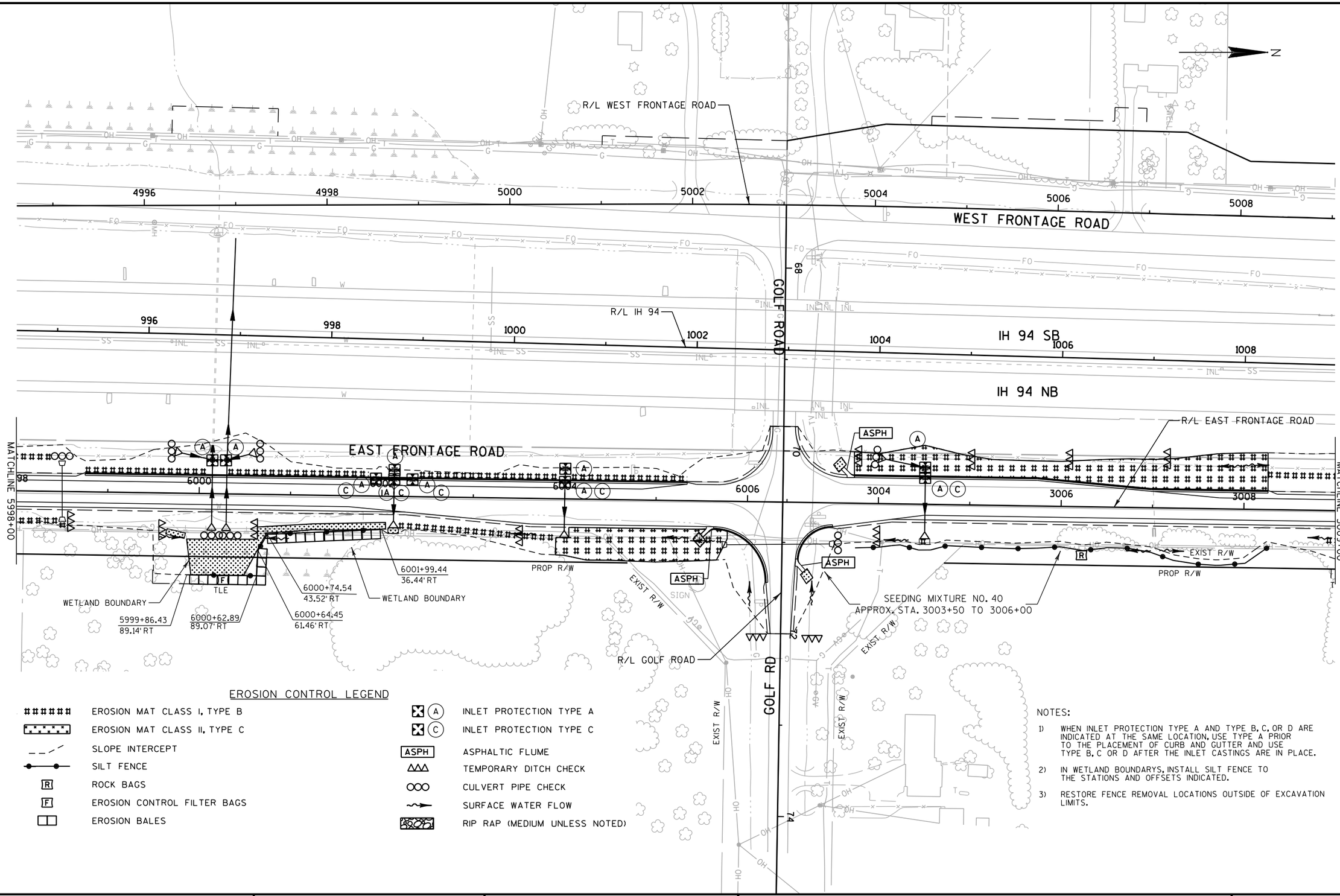
EROSION CONTROL LEGEND

- EROSION MAT CLASS I, TYPE B
- EROSION MAT CLASS II, TYPE C
- SLOPE INTERCEPT
- SILT FENCE
- ROCK BAGS
- EROSION CONTROL FILTER BAGS
- EROSION BALES
- INLET PROTECTION TYPE A
- INLET PROTECTION TYPE C
- ASPHALTIC FLUME
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- RIP RAP (MEDIUM UNLESS NOTED)

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	EROSION CONTROL - EAST FRONTAGE ROAD	SHEET 97	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\022007_EC.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:100

2



EROSION CONTROL LEGEND

- EROSION MAT CLASS I, TYPE B
- EROSION MAT CLASS II, TYPE C
- SLOPE INTERCEPT
- SILT FENCE
- ROCK BAGS
- EROSION CONTROL FILTER BAGS
- EROSION BALES
- INLET PROTECTION TYPE A
- INLET PROTECTION TYPE C
- ASPHALTIC FLUME
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- RIP RAP (MEDIUM UNLESS NOTED)

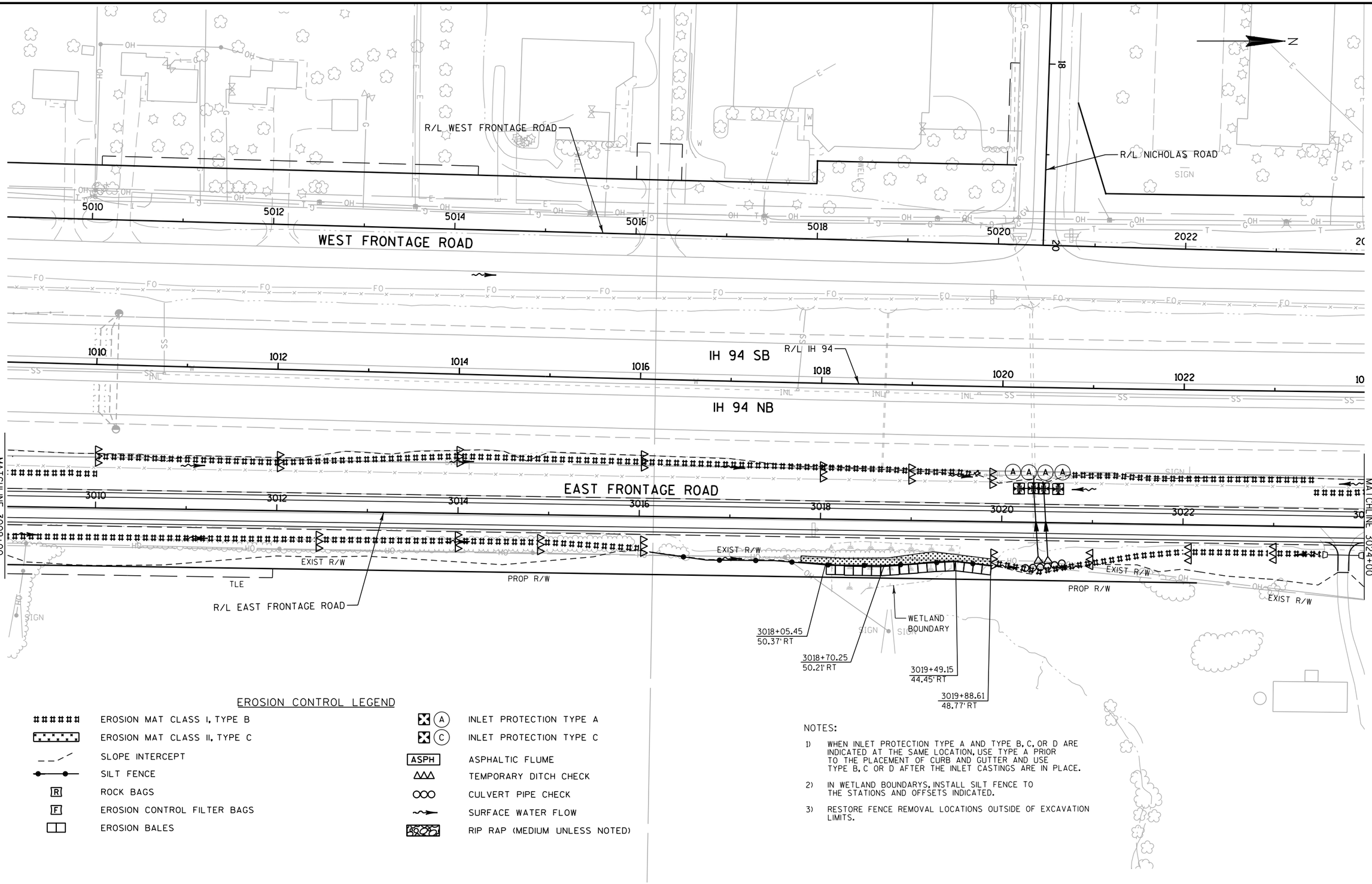
NOTES:

1) WHEN INLET PROTECTION TYPE A AND TYPE B, C, OR D ARE INDICATED AT THE SAME LOCATION, USE TYPE A PRIOR TO THE PLACEMENT OF CURB AND GUTTER AND USE TYPE B, C OR D AFTER THE INLET CASTINGS ARE IN PLACE.
2) IN WETLAND BOUNDARYS, INSTALL SILT FENCE TO THE STATIONS AND OFFSETS INDICATED.
3) RESTORE FENCE REMOVAL LOCATIONS OUTSIDE OF EXCAVATION LIMITS.

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	EROSION CONTROL - EAST FRONTAGE ROAD	SHEET 98	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\022008_EC.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : | PLOT SCALE : 1:100

2



EROSION CONTROL LEGEND

EROSION MAT CLASS I, TYPE B	INLET PROTECTION TYPE A
EROSION MAT CLASS II, TYPE C	INLET PROTECTION TYPE C
SLOPE INTERCEPT	ASPHALTIC FLUME
SILT FENCE	TEMPORARY DITCH CHECK
ROCK BAGS	CULVERT PIPE CHECK
EROSION CONTROL FILTER BAGS	SURFACE WATER FLOW
EROSION BALES	RIP RAP (MEDIUM UNLESS NOTED)

NOTES:

1) WHEN INLET PROTECTION TYPE A AND TYPE B, C, OR D ARE INDICATED AT THE SAME LOCATION, USE TYPE A PRIOR TO THE PLACEMENT OF CURB AND GUTTER AND USE TYPE B, C OR D AFTER THE INLET CASTINGS ARE IN PLACE.

2) IN WETLAND BOUNDARYS, INSTALL SILT FENCE TO THE STATIONS AND OFFSETS INDICATED.

3) RESTORE FENCE REMOVAL LOCATIONS OUTSIDE OF EXCAVATION LIMITS.

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	EROSION CONTROL - EAST FRONTAGE ROAD	SHEET 99	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\022009_EC.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:100

2

2

NOTES:

1) WHEN INLET PROTECTION TYPE A AND TYPE B, C, OR D ARE INDICATED AT THE SAME LOCATION, USE TYPE A PRIOR TO THE PLACEMENT OF CURB AND GUTTER AND USE TYPE B, C OR D AFTER THE INLET CASTINGS ARE IN PLACE.

2) IN WETLAND BOUNDARYS, INSTALL SILT FENCE TO THE STATIONS AND OFFSETS INDICATED.

3) RESTORE FENCE REMOVAL LOCATIONS OUTSIDE OF EXCAVATION LIMITS.

N

3 MILE ROAD

R/L 3 MILE ROAD

R/L WEST FRONTAGE ROAD

WEST FRONTAGE ROAD

IH 94 SB

R/L IH 94

IH 94 NB

EAST FRONTAGE ROAD

MATCHLINE 3024+00

3027+00.65
38.75'LT

3027+24.98
41.45'LT

3026+75.21
37.39'LT

WETLAND BOUNDARY

3026+50.27
50.89'LT

3027+49.93
48.15'LT

3026+26.99
51.19'LT

3027+74.95
56.75'LT

3028+01.16
40.18'RT

3029+71.73
54.75'RT

3029+50.00
53.28'RT

3029+00.07
60.36'RT

3028+62.23
59.04'RT

R/L EAST FRONTAGE ROAD

WETLAND BOUNDARY

UNNAMED TRIBUTARY TO THE EAST BRANCH OF ROOT RIVER (INTERMITTENT STREAM CROSSING)

END PROJECT
I.D. 1030-11-77
STA. 3031+00.00

EXIST R/W

EXIST R/W

EROSION CONTROL LEGEND

######	EROSION MAT CLASS I, TYPE B	(A)	INLET PROTECTION TYPE A
.....	EROSION MAT CLASS II, TYPE C	(C)	INLET PROTECTION TYPE C
- - -	SLOPE INTERCEPT	ASPH	ASPHALTIC FLUME
-●-●-	SILT FENCE	△△△	TEMPORARY DITCH CHECK
R	ROCK BAGS	○○○	CULVERT PIPE CHECK
F	EROSION CONTROL FILTER BAGS	~→	SURFACE WATER FLOW
□□	EROSION BALES		RIP RAP (MEDIUM UNLESS NOTED)

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	EROSION CONTROL - EAST FRONTAGE ROAD	SHEET 100	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\022010_EC.dgn | PLOT DATE : 9/24/2012 | PLOT BY : bjw | PLOT NAME : | PLOT SCALE : 1:100

10301177-00008RDAPERM

2

N

SEEDING MIXTURE NO. 40
APPROX. STA. 4892+00 TO 4901+50

TLE

EXIST R/W

EVANS LANE

R/L EVANS LANE

PROP R/W

ASPH

R/L WEST FRONTAGE ROAD

4902+99.87
63.87'LT

4902+62.48
60.72'LT

4903+50.03
46.94'LT

4904+46.16
51.84'LT

4904+36.52
45.15'LT

BEGIN PROJECT
I.D. 1030-11-78
STA. 4891+90.00
= MATCH EXISTING

WEST FRONTAGE ROAD

WETLAND BOUNDARY

MATCHLINE 4905.00

4890 4892 4894 4896 4898 4900 4902 4904

R/L IH 94

IH 94 SB

IH 94 NB

890 892 894 896 898 900 902 904

5896 5898 5900 5902 EAST FRONTAGE ROAD 5904 5906 5908

R/L EAST FRONTAGE ROAD

NOTES:

1) WHEN INLET PROTECTION TYPE A AND TYPE B, C, OR D ARE INDICATED AT THE SAME LOCATION, USE TYPE A PRIOR TO THE PLACEMENT OF CURB AND GUTTER AND USE TYPE B, C OR D AFTER THE INLET CASTINGS ARE IN PLACE.

2) IN WETLAND BOUNDARY AREAS, INSTALL SILT FENCE TO THE STATIONS AND OFFSETS INDICATED.

3) RESTORE FENCE REMOVAL LOCATIONS OUTSIDE OF EXCAVATION LIMITS.

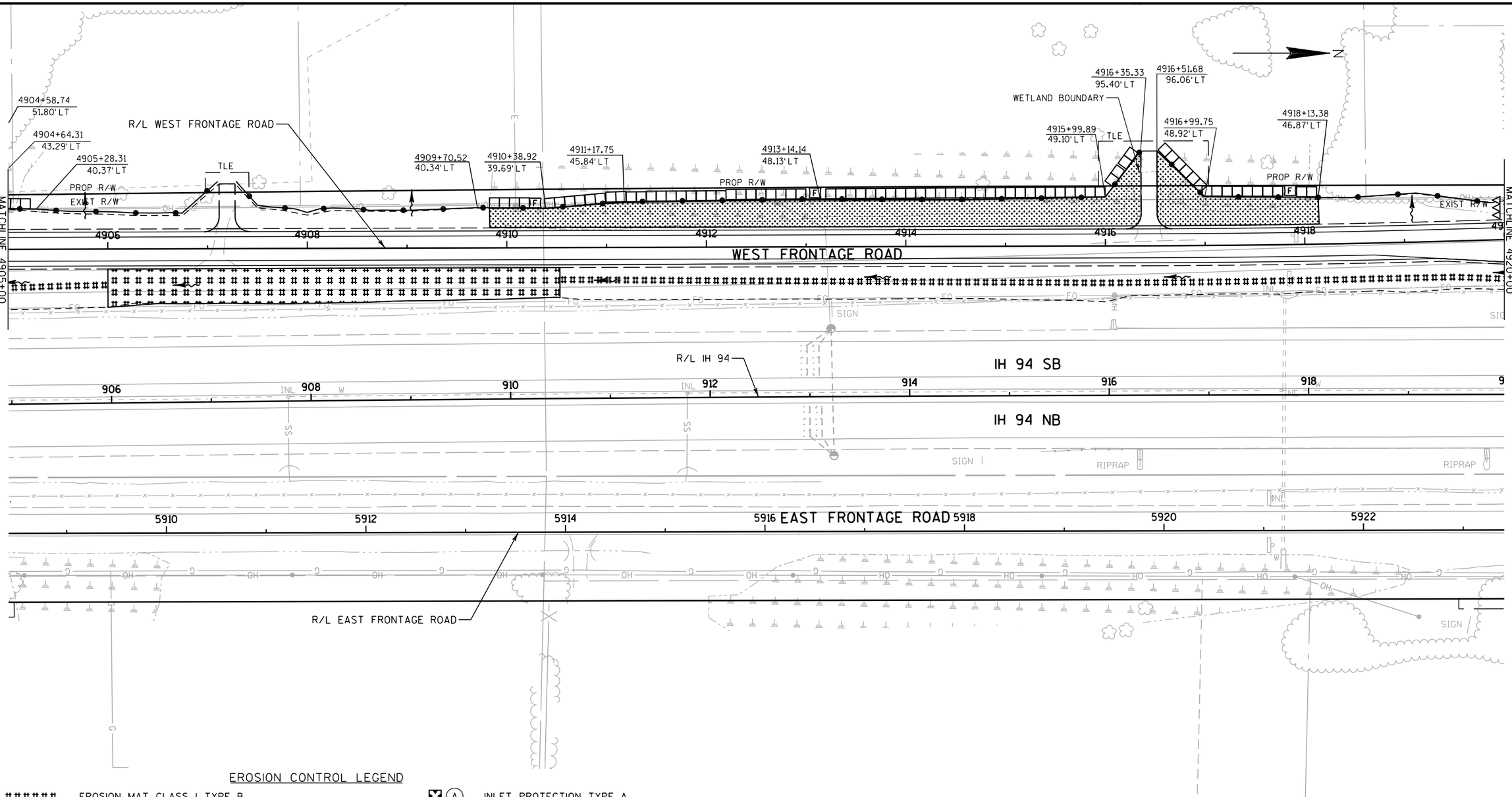
EROSION CONTROL LEGEND

######	EROSION MAT CLASS I, TYPE B	(A)	INLET PROTECTION TYPE A
	EROSION MAT CLASS II, TYPE C	(C)	INLET PROTECTION TYPE C
	SLOPE INTERCEPT	ASPH	ASPHALTIC FLUME
	SILT FENCE	△△△	TEMPORARY DITCH CHECK
R	ROCK BAGS	○○○	CULVERT PIPE CHECK
F	EROSION CONTROL FILTER BAGS		SURFACE WATER FLOW
	EROSION BALES		RIP RAP (MEDIUM UNLESS NOTED)

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	EROSION CONTROL - WEST FRONTAGE ROAD	SHEET 101	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\022011_EC.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:100

2



EROSION CONTROL LEGEND

- EROSION MAT CLASS I, TYPE B
- EROSION MAT CLASS II, TYPE C
- SLOPE INTERCEPT
- SILT FENCE
- ROCK BAGS
- EROSION CONTROL FILTER BAGS
- EROSION BALES
- INLET PROTECTION TYPE A
- INLET PROTECTION TYPE C
- ASPHALTIC FLUME
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- RIP RAP (MEDIUM UNLESS NOTED)

NOTES:

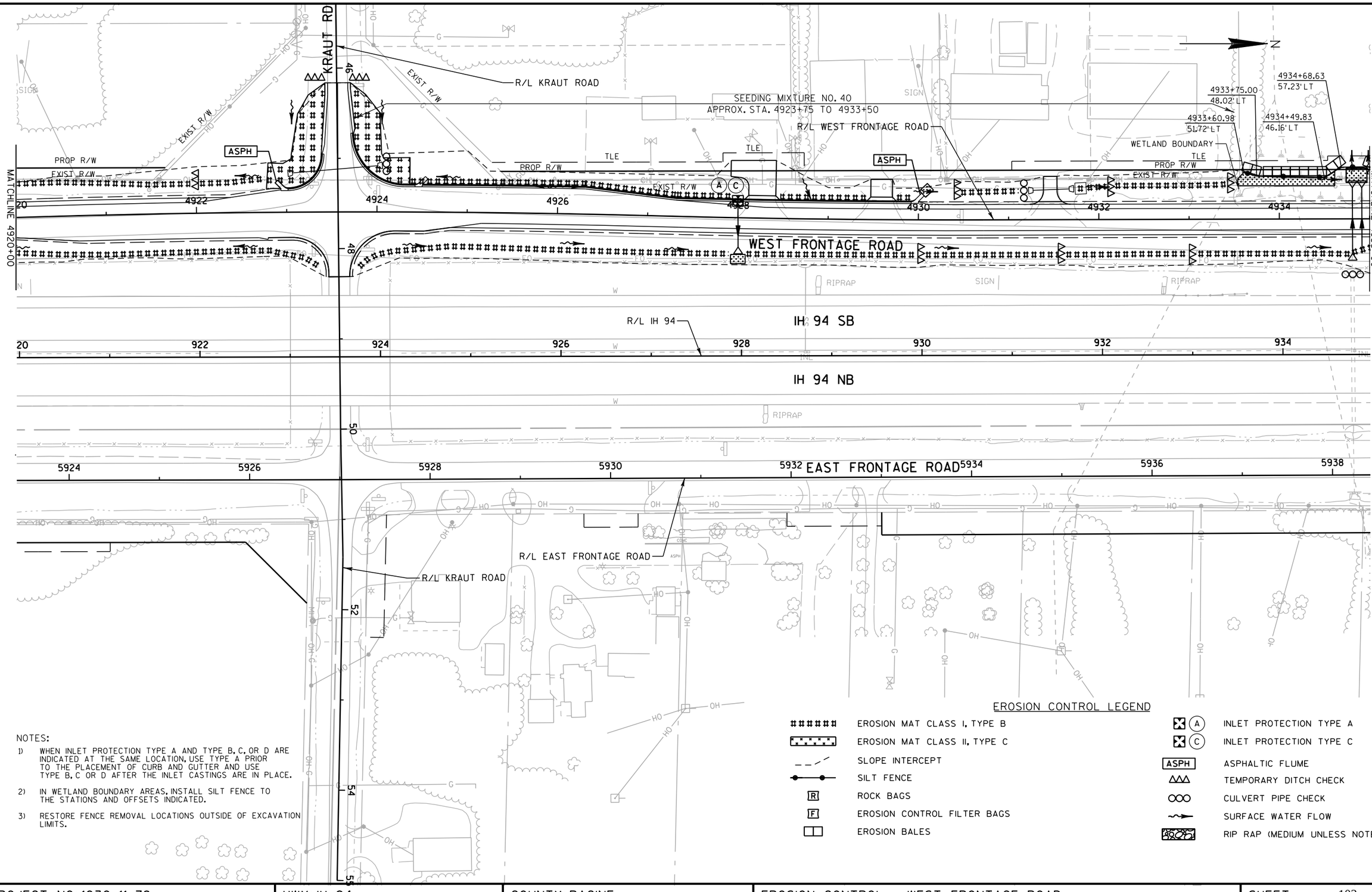
1) WHEN INLET PROTECTION TYPE A AND TYPE B, C, OR D ARE INDICATED AT THE SAME LOCATION, USE TYPE A PRIOR TO THE PLACEMENT OF CURB AND GUTTER AND USE TYPE B, C OR D AFTER THE INLET CASTINGS ARE IN PLACE.

2) IN WETLAND BOUNDARY AREAS, INSTALL SILT FENCE TO THE STATIONS AND OFFSETS INDICATED.

3) RESTORE FENCE REMOVAL LOCATIONS OUTSIDE OF EXCAVATION LIMITS.

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	EROSION CONTROL - WEST FRONTAGE ROAD	SHEET 102 HOL	E

2



NOTES:

1) WHEN INLET PROTECTION TYPE A AND TYPE B, C, OR D ARE INDICATED AT THE SAME LOCATION, USE TYPE A PRIOR TO THE PLACEMENT OF CURB AND GUTTER AND USE TYPE B, C OR D AFTER THE INLET CASTINGS ARE IN PLACE.

2) IN WETLAND BOUNDARY AREAS, INSTALL SILT FENCE TO THE STATIONS AND OFFSETS INDICATED.

3) RESTORE FENCE REMOVAL LOCATIONS OUTSIDE OF EXCAVATION LIMITS.

EROSION CONTROL LEGEND

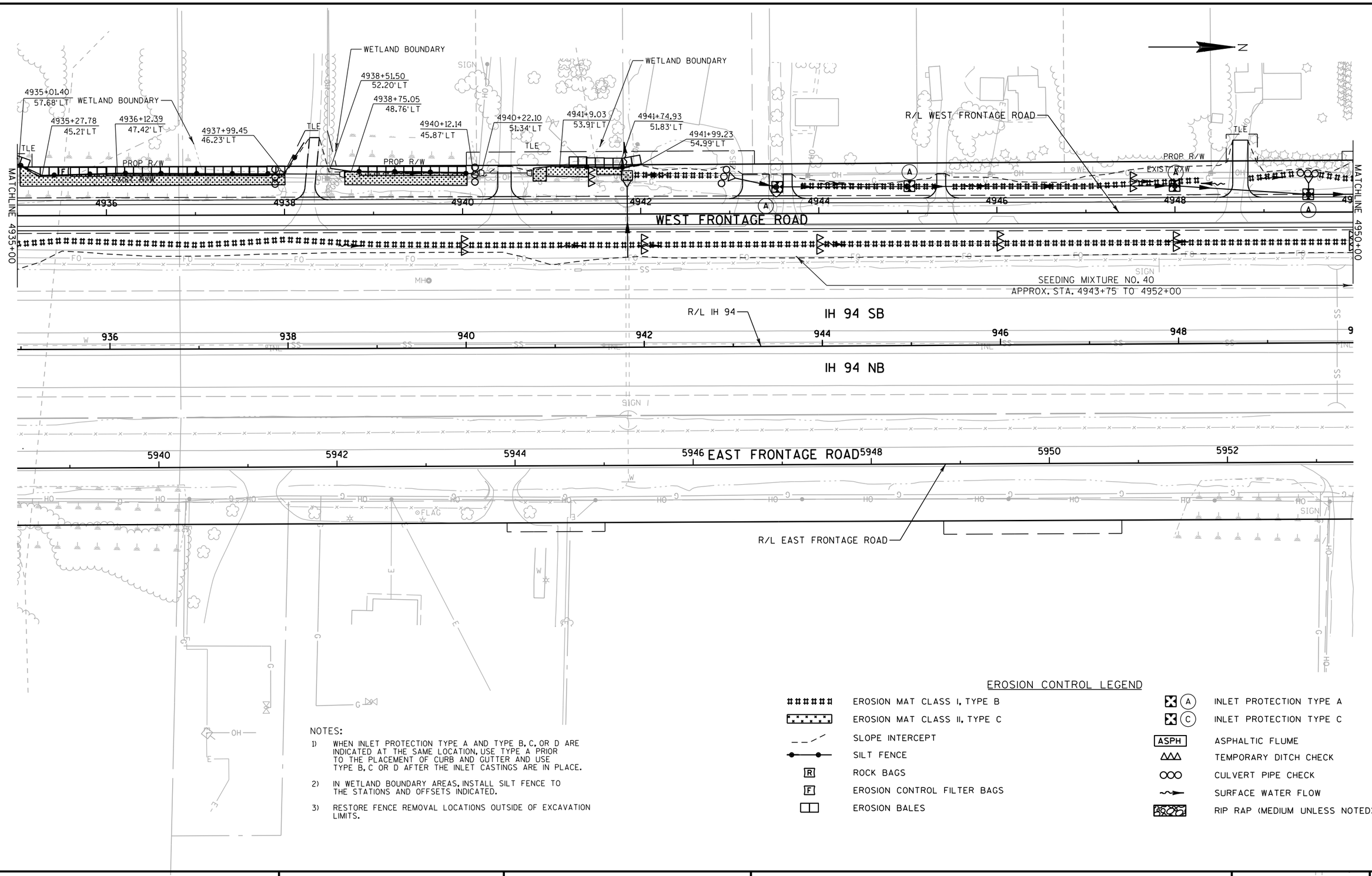
######	EROSION MAT CLASS I, TYPE B	(A)	INLET PROTECTION TYPE A
	EROSION MAT CLASS II, TYPE C	(C)	INLET PROTECTION TYPE C
_ _ /	SLOPE INTERCEPT	ASPH	ASPHALTIC FLUME
	SILT FENCE	△△△	TEMPORARY DITCH CHECK
R	ROCK BAGS	○○○	CULVERT PIPE CHECK
F	EROSION CONTROL FILTER BAGS	~→	SURFACE WATER FLOW
	EROSION BALES		RIP RAP (MEDIUM UNLESS NOTED)

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	EROSION CONTROL - WEST FRONTAGE ROAD	SHEET 103	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\022013_EC.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:100

HSE

2



NOTES:

1) WHEN INLET PROTECTION TYPE A AND TYPE B, C, OR D ARE INDICATED AT THE SAME LOCATION, USE TYPE A PRIOR TO THE PLACEMENT OF CURB AND GUTTER AND USE TYPE B, C OR D AFTER THE INLET CASTINGS ARE IN PLACE.

2) IN WETLAND BOUNDARY AREAS, INSTALL SILT FENCE TO THE STATIONS AND OFFSETS INDICATED.

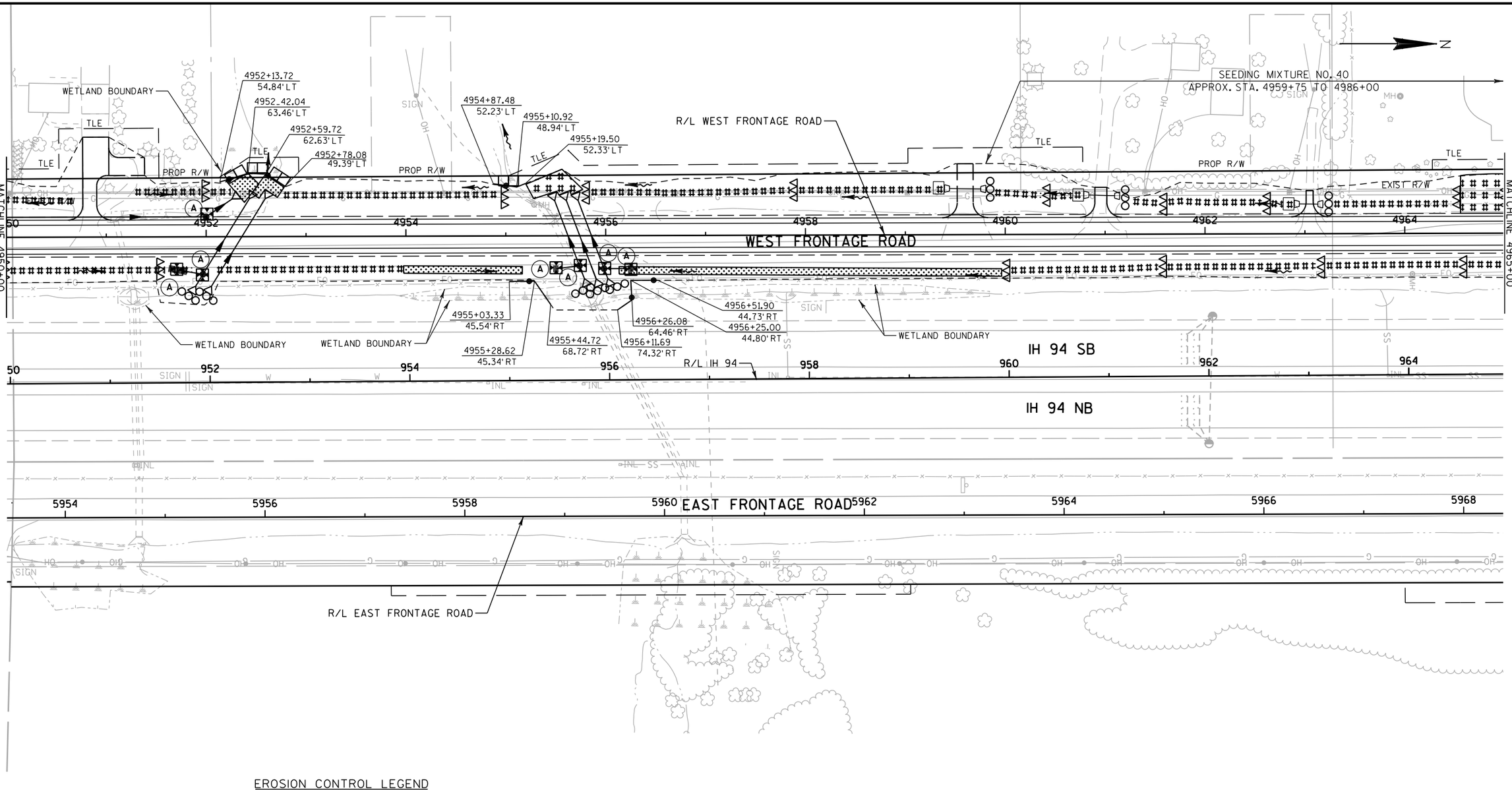
3) RESTORE FENCE REMOVAL LOCATIONS OUTSIDE OF EXCAVATION LIMITS.

EROSION CONTROL LEGEND

######	EROSION MAT CLASS I, TYPE B	(A)	INLET PROTECTION TYPE A
	EROSION MAT CLASS II, TYPE C	(C)	INLET PROTECTION TYPE C
	SLOPE INTERCEPT	ASPH	ASPHALTIC FLUME
	SILT FENCE	△△△	TEMPORARY DITCH CHECK
R	ROCK BAGS	○○○	CULVERT PIPE CHECK
F	EROSION CONTROL FILTER BAGS		SURFACE WATER FLOW
	EROSION BALES		RIP RAP (MEDIUM UNLESS NOTED)

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	EROSION CONTROL - WEST FRONTAGE ROAD	SHEET 104	E

2



EROSION CONTROL LEGEND

EROSION MAT CLASS I, TYPE B	INLET PROTECTION TYPE A
EROSION MAT CLASS II, TYPE C	INLET PROTECTION TYPE C
SLOPE INTERCEPT	ASPHALTIC FLUME
SILT FENCE	TEMPORARY DITCH CHECK
ROCK BAGS	CULVERT PIPE CHECK
EROSION CONTROL FILTER BAGS	SURFACE WATER FLOW
EROSION BALES	RIP RAP (MEDIUM UNLESS NOTED)

NOTES:

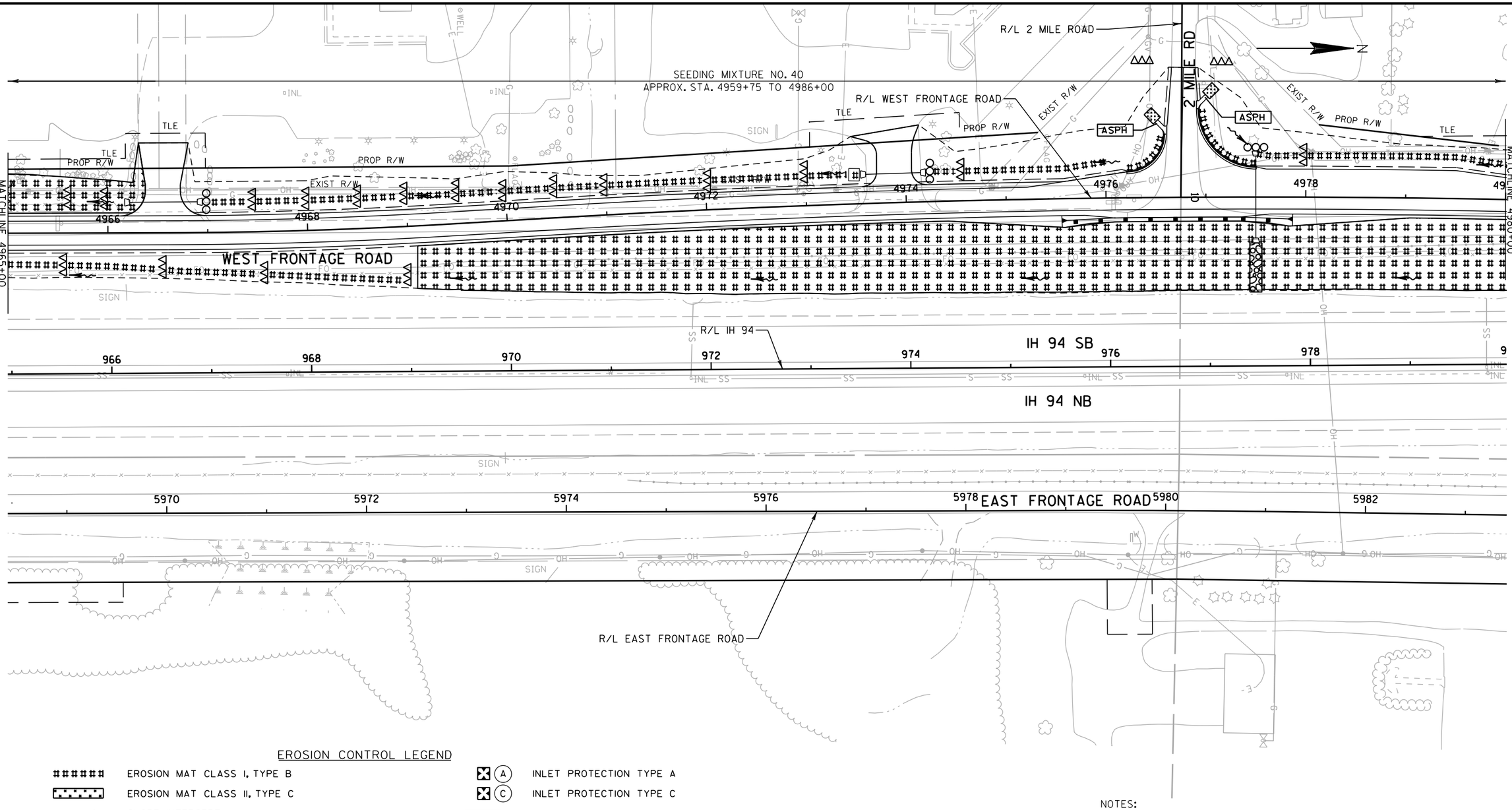
1) WHEN INLET PROTECTION TYPE A AND TYPE B, C, OR D ARE INDICATED AT THE SAME LOCATION, USE TYPE A PRIOR TO THE PLACEMENT OF CURB AND GUTTER AND USE TYPE B, C OR D AFTER THE INLET CASTINGS ARE IN PLACE.

2) IN WETLAND BOUNDARY AREAS, INSTALL SILT FENCE TO THE STATIONS AND OFFSETS INDICATED.

3) RESTORE FENCE REMOVAL LOCATIONS OUTSIDE OF EXCAVATION LIMITS.

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	EROSION CONTROL - WEST FRONTAGE ROAD	SHEET 105	E

2



EROSION CONTROL LEGEND

- EROSION MAT CLASS I, TYPE B
- EROSION MAT CLASS II, TYPE C
- SLOPE INTERCEPT
- SILT FENCE
- ROCK BAGS
- EROSION CONTROL FILTER BAGS
- EROSION BALES
- INLET PROTECTION TYPE A
- INLET PROTECTION TYPE C
- ASPHALTIC FLUME
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- RIP RAP (MEDIUM UNLESS NOTED)

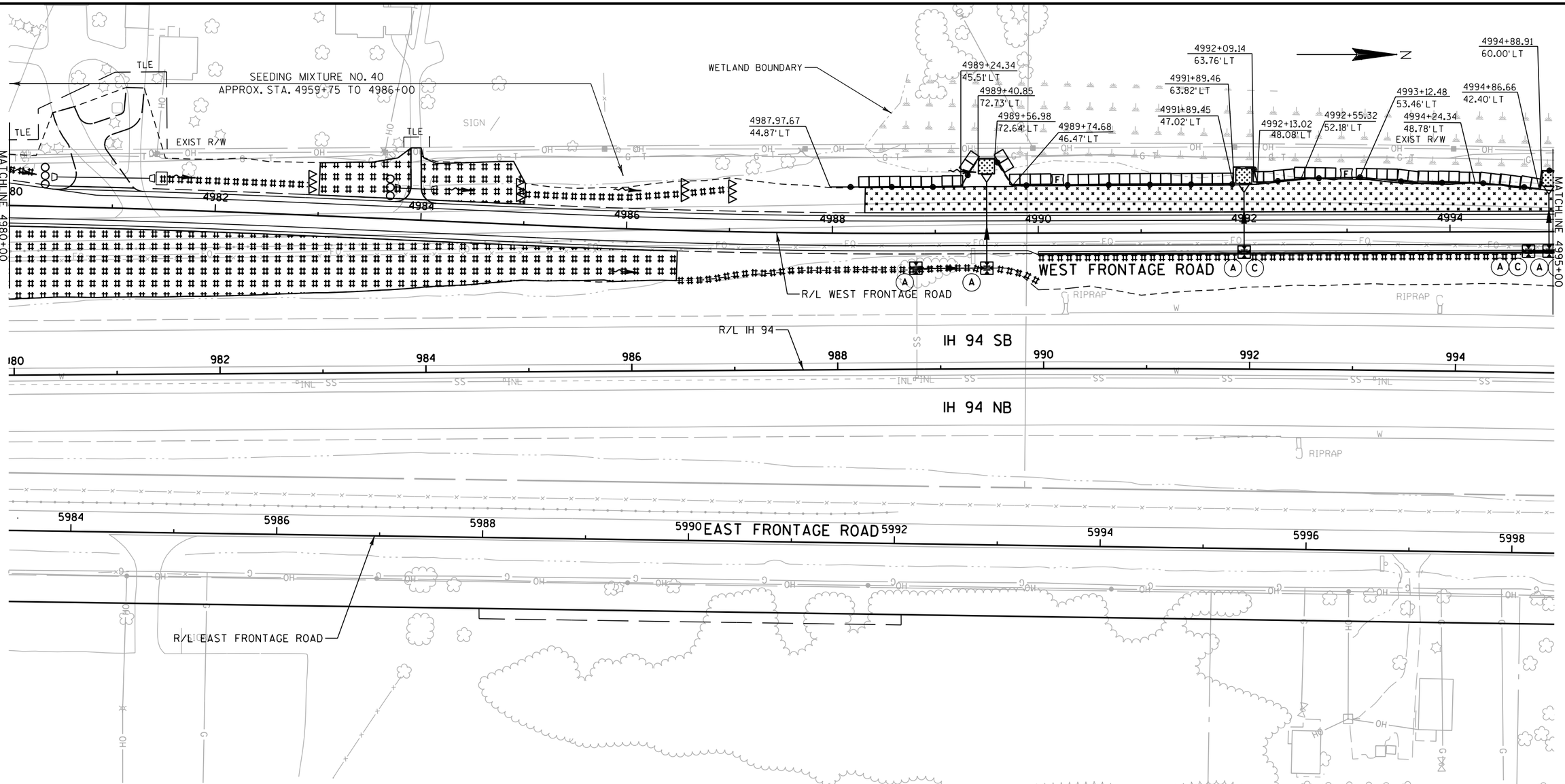
NOTES:

1) WHEN INLET PROTECTION TYPE A AND TYPE B, C, OR D ARE INDICATED AT THE SAME LOCATION, USE TYPE A PRIOR TO THE PLACEMENT OF CURB AND GUTTER AND USE TYPE B, C OR D AFTER THE INLET CASTINGS ARE IN PLACE.
2) IN WETLAND BOUNDARY AREAS, INSTALL SILT FENCE TO THE STATIONS AND OFFSETS INDICATED.
3) RESTORE FENCE REMOVAL LOCATIONS OUTSIDE OF EXCAVATION LIMITS.

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	EROSION CONTROL - WEST FRONTAGE ROAD	SHEET 106	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\022016_EC.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : | PLOT SCALE : 1:100

2



EROSION CONTROL LEGEND

- EROSION MAT CLASS I, TYPE B
- EROSION MAT CLASS II, TYPE C
- SLOPE INTERCEPT
- SILT FENCE
- ROCK BAGS
- EROSION CONTROL FILTER BAGS
- EROSION BALES
- INLET PROTECTION TYPE A
- INLET PROTECTION TYPE C
- ASPHALTIC FLUME
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- RIP RAP (MEDIUM UNLESS NOTED)

NOTES:

1) WHEN INLET PROTECTION TYPE A AND TYPE B, C, OR D ARE INDICATED AT THE SAME LOCATION, USE TYPE A PRIOR TO THE PLACEMENT OF CURB AND GUTTER AND USE TYPE B, C OR D AFTER THE INLET CASTINGS ARE IN PLACE.

2) IN WETLAND BOUNDARY AREAS, INSTALL SILT FENCE TO THE STATIONS AND OFFSETS INDICATED.

3) RESTORE FENCE REMOVAL LOCATIONS OUTSIDE OF EXCAVATION LIMITS.

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	EROSION CONTROL - WEST FRONTAGE ROAD	SHEET 107	E

2

2

4996+38.97
34.69'LT
4996+41.63
97.80'LT
4997+35.80
95.71'LT
4997+33.20
41.08'LT
4998+09.26
56.48'LT
4998+09.26
41.69'LT
4998+25.59
56.13'LT
4998+49.88
45.29'LT
4999+46.16
53.83'LT
4994+88.91
60.00'LT
4995+05.39
60.00'LT
EXIST R/W
4995+24.87
42.34'LT
4995+13.00
50.0'LT
WETLAND BOUNDARY
SEEDING MIXTURE NO. 40
APPROX. STA. 5000+00 TO 5003+50
SEEDING MIXTURE NO. 40
APPROX. STA. 5005+50 TO 5003+50
TLE
PROP R/W
EXIST R/W
MATCHLINE 4995+00
MATCHLINE 5010+00
WEST FRONTAGE ROAD
R/L WEST FRONTAGE ROAD
R/L IH 94
GOLF RD
IH 94 SB
IH 94 NB
EAST FRONTAGE ROAD
R/L EAST FRONTAGE ROAD
R/L GOLF ROAD
SIGN

NOTES:

1) WHEN INLET PROTECTION TYPE A AND TYPE B, C, OR D ARE INDICATED AT THE SAME LOCATION, USE TYPE A PRIOR TO THE PLACEMENT OF CURB AND GUTTER AND USE TYPE B, C OR D AFTER THE INLET CASTINGS ARE IN PLACE.

2) IN WETLAND BOUNDARY AREAS, INSTALL SILT FENCE TO THE STATIONS AND OFFSETS INDICATED.

3) RESTORE FENCE REMOVAL LOCATIONS OUTSIDE OF EXCAVATION LIMITS.

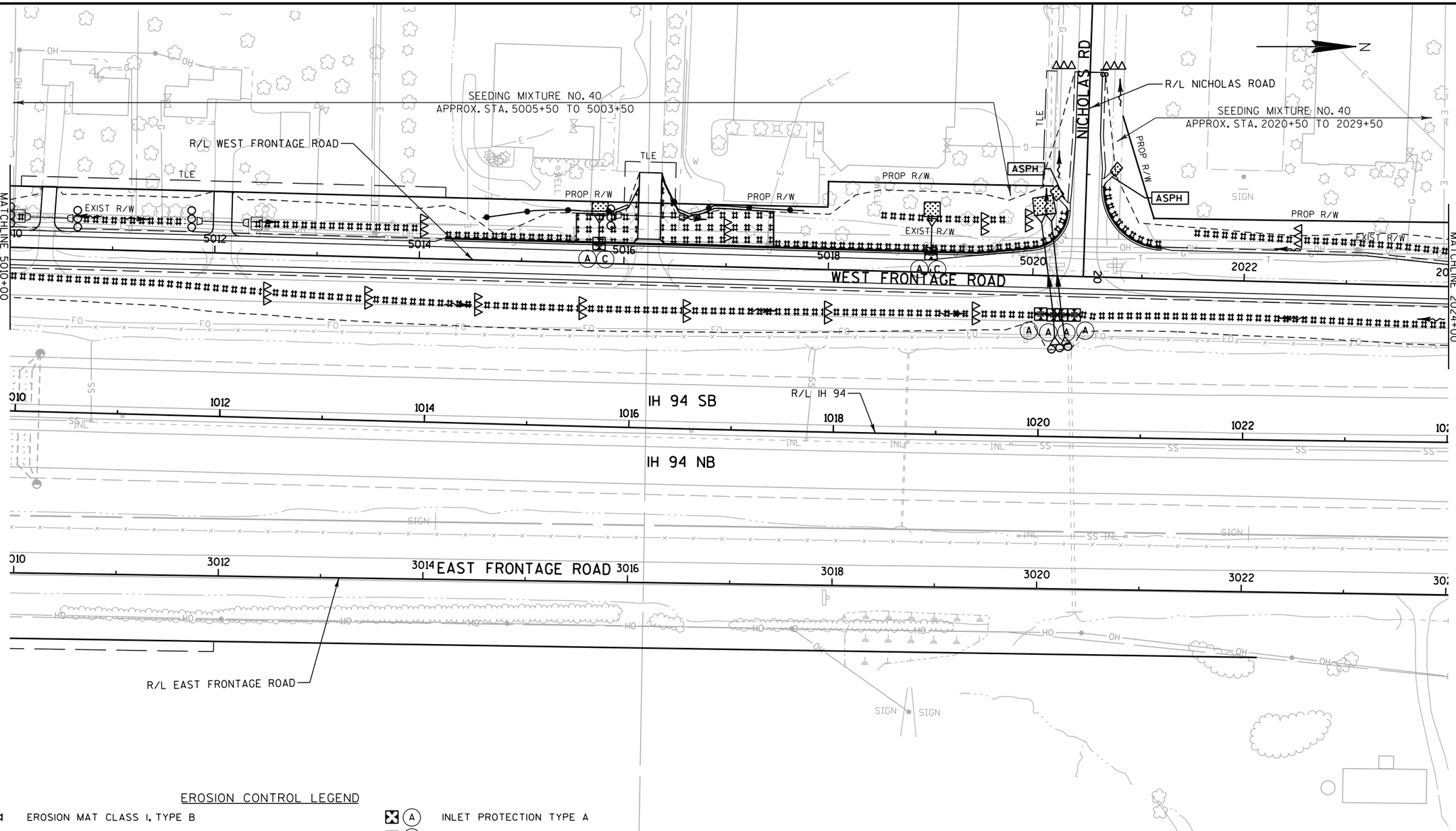
EROSION CONTROL LEGEND

#####	EROSION MAT CLASS I, TYPE B	(A)	INLET PROTECTION TYPE A
	EROSION MAT CLASS II, TYPE C	(C)	INLET PROTECTION TYPE C
	SLOPE INTERCEPT	ASPH	ASPHALTIC FLUME
	SILT FENCE	△△△	TEMPORARY DITCH CHECK
R	ROCK BAGS	○○○	CULVERT PIPE CHECK
F	EROSION CONTROL FILTER BAGS		SURFACE WATER FLOW
	EROSION BALES		RIP RAP (MEDIUM UNLESS NOTED)

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	EROSION CONTROL - WEST FRONTAGE ROAD	SHEET 108	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\022018_EC.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : | PLOT SCALE : 1:100

2



EROSION CONTROL LEGEND

EROSION MAT CLASS I, TYPE B	INLET PROTECTION TYPE A
EROSION MAT CLASS II, TYPE C	INLET PROTECTION TYPE C
SLOPE INTERCEPT	ASPHALTIC FLUME
SILT FENCE	TEMPORARY DITCH CHECK
ROCK BAGS	CULVERT PIPE CHECK
EROSION CONTROL FILTER BAGS	SURFACE WATER FLOW
EROSION BALES	RIP RAP (MEDIUM UNLESS NOTED)

NOTES:

1) WHEN INLET PROTECTION TYPE A AND TYPE B, C, OR D ARE INDICATED AT THE SAME LOCATION, USE TYPE A PRIOR TO THE PLACEMENT OF CURB AND GUTTER AND USE TYPE B, C OR D AFTER THE INLET CASTINGS ARE IN PLACE.

2) IN WETLAND BOUNDARY AREAS, INSTALL SILT FENCE TO THE STATIONS AND OFFSETS INDICATED.

3) RESTORE FENCE REMOVAL LOCATIONS OUTSIDE OF EXCAVATION LIMITS.

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	EROSION CONTROL - WEST FRONTAGE ROAD	SHEET 109 HSL	E

2

2

SEEDING MIXTURE NO. 40
APPROX. STA. 2020+50 TO 2029+50

UNNAMED TRIBUTARY
TO THE EAST BRANCH
OF THE ROOT RIVER
(INTERMITTENT STREAM CROSSING)

3 MILE RD

PROP R/W

EXIST R/W

ASPH

R/L 3 MILE ROAD

R/L WEST FRONTAGE ROAD

MATCHLINE 2024+00

WEST FRONTAGE ROAD

END PROJECT
I.D. 1030-11-78
STA. 2030+25

R/L IH 94

IH 94 SB

IH 94 NB

EAST FRONTAGE ROAD

R/L EAST FRONTAGE ROAD

N

EROSION CONTROL LEGEND

EROSION MAT CLASS I, TYPE B	INLET PROTECTION TYPE A
EROSION MAT CLASS II, TYPE C	INLET PROTECTION TYPE C
SLOPE INTERCEPT	ASPHALTIC FLUME
SILT FENCE	TEMPORARY DITCH CHECK
ROCK BAGS	CULVERT PIPE CHECK
EROSION CONTROL FILTER BAGS	SURFACE WATER FLOW
EROSION BALES	RIP RAP (MEDIUM UNLESS NOTED)

NOTES:

1) WHEN INLET PROTECTION TYPE A AND TYPE B, C, OR D ARE INDICATED AT THE SAME LOCATION, USE TYPE A PRIOR TO THE PLACEMENT OF CURB AND GUTTER AND USE TYPE B, C OR D AFTER THE INLET CASTINGS ARE IN PLACE.

2) IN WETLAND BOUNDARY AREAS, INSTALL SILT FENCE TO THE STATIONS AND OFFSETS INDICATED.

3) RESTORE FENCE REMOVAL LOCATIONS OUTSIDE OF EXCAVATION LIMITS.

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	EROSION CONTROL - WEST FRONTAGE ROAD	SHEET 110 HOL	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\022020_EC.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:100

10301177-00008RDAPERM

2

2

IH 94 SB

IH 94 NB

N

892 894 896 898 900 902 904 906

5896 5898 5900 5902 5904 5906 5908

MATCHLINE 5909+80

EAST FRONTAGE ROAD

EXIST R/W

PROP R/W

TLE

PROP R/W

TLE

EXIST R/W

R/L EAST FRONTAGE ROAD

CONSTRUCT TYPE MEDIAN 2 GRATE INLET ON EXISTING DRAINTILE. VERIFY DRAINTILE ELEVATION AND SIZE. CONNECTION TO DRAINTILE IS INCIDENTAL TO MEDIAN 2 GRATE INLET.

BEGIN PROJECT
I.D. 1030-11-77
STA 5897+00.00

770 765 760 755 750 745 740 735

BEGIN PROJECT
I.D. 1030-11-77
STA 5897+00.00

FINISHED PROFILE AT ℄ EAST FRONTAGE ROAD

EXISTING PROFILE AT ℄ EAST FRONTAGE ROAD

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	STORM SEWER: EAST FRONTAGE ROAD	SHEET 111	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\022500_ss.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 41a

2

IH 94 SB

IH 94 NB

908 910 912 914 916 918 920

INL W

SS

SIGN

FO

MH

RIPRAP

ATTACHED TO EXISTING PIPE WITH CONCRETE COLLAR

512A

512B

INL

W

5910 5912 5914 5916 5918 5920 5922 5924

MATCHLINE 5909+80

MATCHLINE 5925+00

EAST FRONTAGE ROAD

EXIST R/W

PROP R/W

OH

G

HO

TLE

R/L EAST FRONTAGE ROAD

760 755 750 745 740 735 730 725

FINISHED PROFILE AT ℄ EAST FRONTAGE ROAD

EXISTING PROFILE AT ℄ EAST FRONTAGE ROAD

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	STORM SEWER: EAST FRONTAGE ROAD	SHEET 112 HSL	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\022501_ss.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 41a

10301177-00008RDAPERM

2

IH 94 SB

IH 94 NB

KRAUT RD

EAST FRONTAGE ROAD

922 924 926 928 930 932 934 936

5926 5928 5930 5932 5934 5936 5938

MATCHLINE 5925+00

MATCHLINE 5940+00

RIPRAP

SIGN

EXIST R/W

PROP R/W

TLE

512C

512D

512E

INLET 512D MOVED TO 5932+75 TO ACCOMMODATE 8" CLAY DRAIN TILE

R/L EAST FRONTAGE ROAD

FINISHED PROFILE AT ℄ EAST FRONTAGE ROAD

EXISTING PROFILE AT ℄ EAST FRONTAGE ROAD

749.25

748.90

745.58

745.12

744.50

101'- 18" SSPRC @ 0.46%

131'- 18" SSPRC @ 0.46%

760 755 750 745 740 735 730 725

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	STORM SEWER: EAST FRONTAGE ROAD	SHEET 113	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\022502_ss.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 41a

2

IH 94 SB

IH 94 NB

940 942 944 946 952

EAST FRONTAGE ROAD

MATCHLINE 5942+00

42 5944 5946 5948 5950 5952 5954 59

MATCHLINE 5956+00

EXIST R/W

PROP R/W

TLE

TLE

PROP R/W

EXIST R/W

R/L EAST FRONTAGE ROAD

WETLAND BOUNDARY

514 516 513 515A 512 515

CONCRETE PIPE ATTACHED TO EXISTING SS WITH CONCRETE COLLAR. CONCRETE PIPE ATTACHED TO MH514 WITH CONCRETE COLLAR AND 2' LENGTH OF 42"CORRUGATED POLYETHYLENE PIPE, CUT AT ANGLE IN ORDER TO FIT INSIDE STRUCTURE.

NORTH PIPE ABANDONED ACCORDING TO SPV.0035.003

514 RIM RAISED +/-11" TO ACCOMMODATE PIPE

516 RIM RAISED +/-4" TO ACCOMMODATE PIPE

OUTLET FACE RIM OF 513 RAISED +/-7" TO ACCOMMODATE PIPE

OUTLET FACE RIM OF 515A RAISED +/-7" TO ACCOMMODATE PIPE

750 745 740 735 730 725 720 715

FINISHED PROFILE AT ℄ EAST FRONTAGE ROAD

EXISTING PROFILE AT ℄ EAST FRONTAGE ROAD

42" SSPRC IV

42" CORRUGATED POLYETHYLENE PIPE WITH CONCRETE COLLAR

CONCRETE COLLAR

514

EXISTING 48" SS UNDER I94

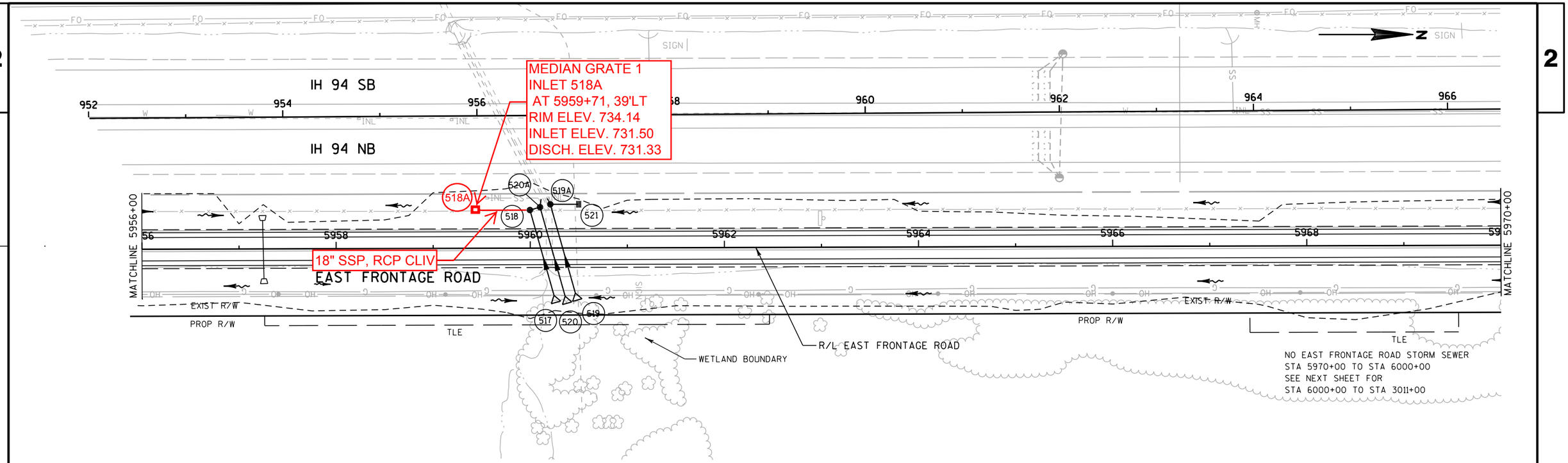
EXISTING INVERT ELEV. 728.40

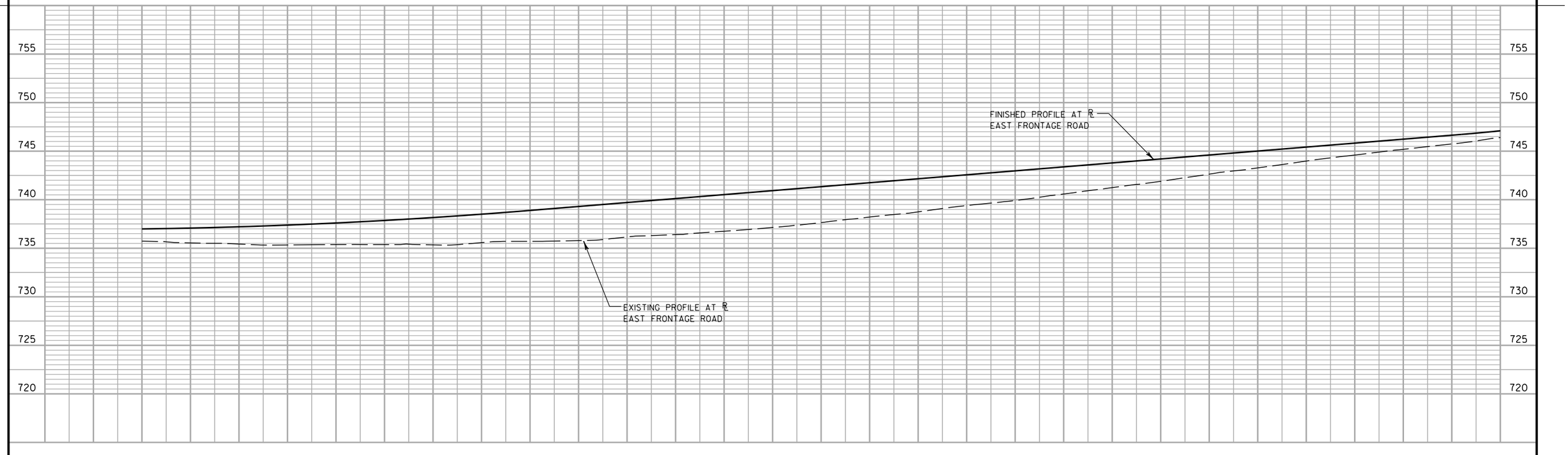
INVERT ELEV. 730.20

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	STORM SEWER: EAST FRONTAGE ROAD	SHEET 114	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\022503_ss.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 41a





PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	STORM SEWER: EAST FRONTAGE ROAD	SHEET 115	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\022504_ss.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 41a

2

IH 94 SB

IH 94 NB

998 1000 1002 1004 1006 1008 1010

GOLF RD

SEE STORM SEWER: MICROTUNNEL PLAN

MATCHLINE 6000+00

523 526 529 532B 532A

527A 6002 527 527B 6004 530 6006 3004 532 3006 3008 3010

524 522 528 531 533

EAST FRONTAGE ROAD

MATCHLINE 3011+00

WETLAND BOUNDARY

PROP R/W

EXIST R/W

EXIST R/W

PROP R/W
R/L EAST FRONTAGE ROAD

TLE

TLE

NO EAST FRONTAGE ROAD STORM SEWER
STA 5970+00 TO STA 6000+00
SEE PREVIOUS SHEET FOR
STA 5956+00 TO STA 5970+00

760 755 750 745 740 735 730 725

EXISTING PROFILE AT ℄
EAST FRONTAGE ROAD

FINISHED PROFILE AT ℄
EAST FRONTAGE ROAD

742.95 527 742.94 742.96

527A 527B

740.18 740.18

20'- 15" SSPRC @ 0.50%

20'- 15" SSPRC @ 0.50%

740.16

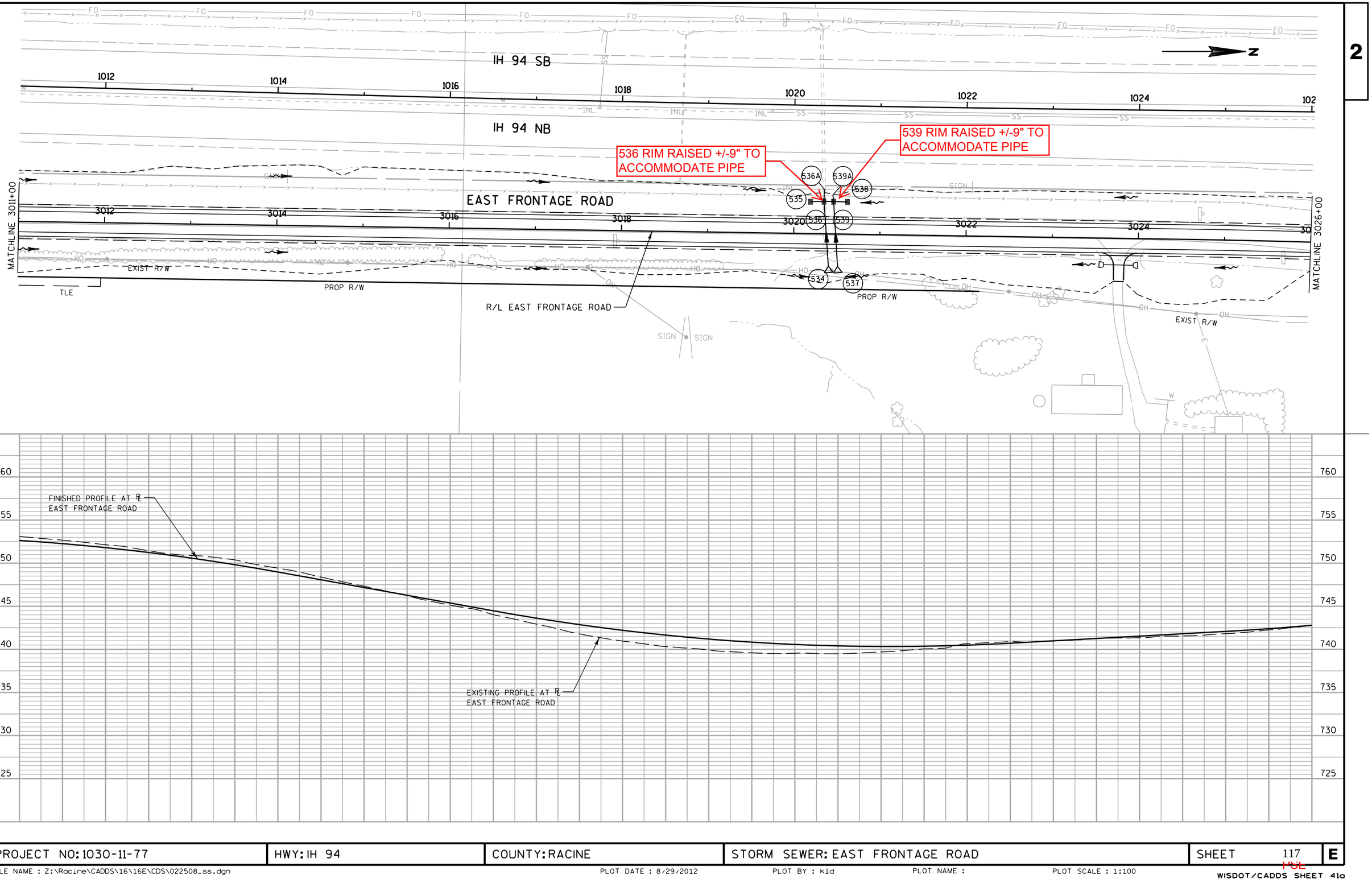
740.08

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	STORM SEWER: EAST FRONTAGE ROAD	SHEET 116	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\022507_ss.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 41a

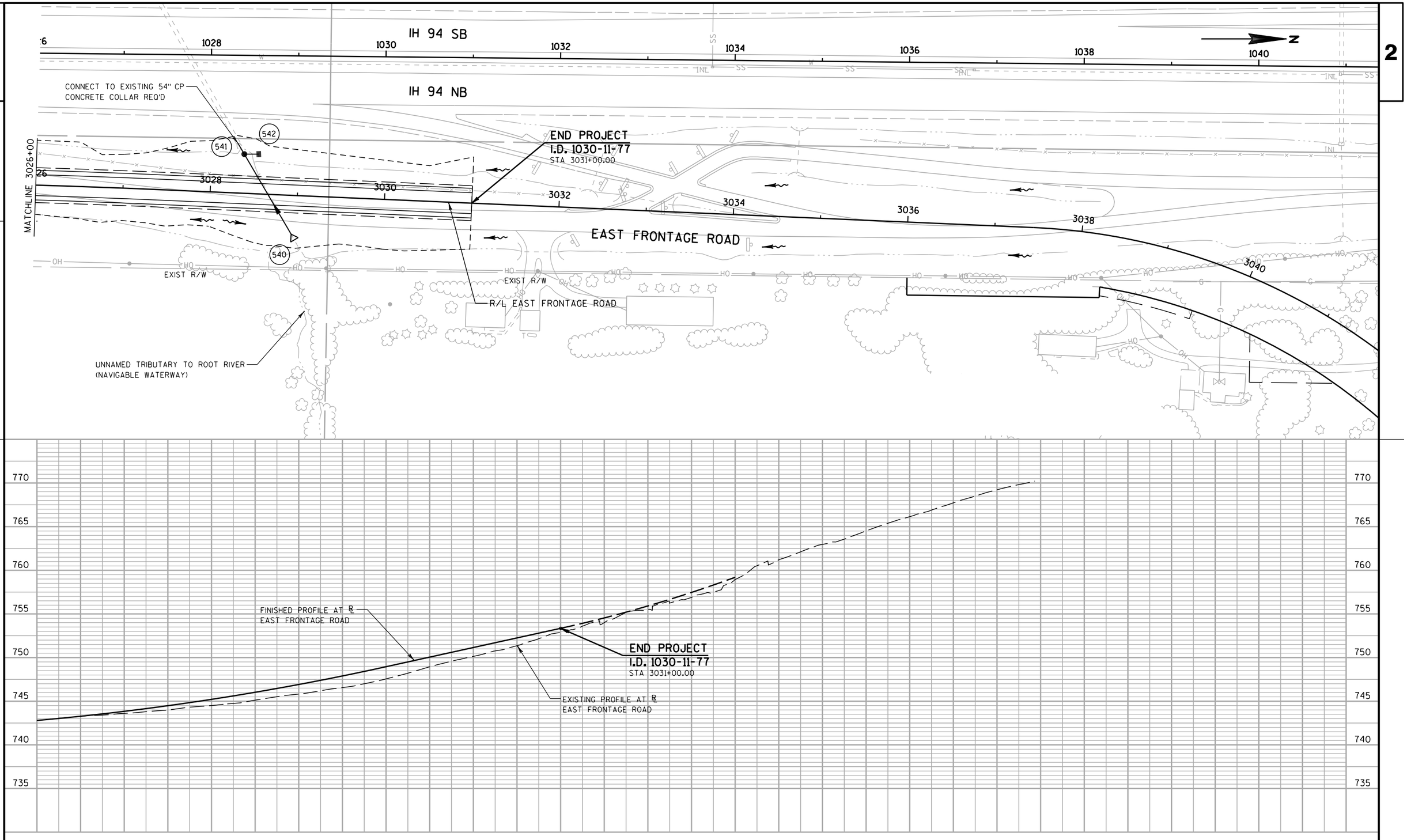
10301177-00008RDAPERM



PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	STORM SEWER: EAST FRONTAGE ROAD	SHEET 117	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\022508_ss.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 41a



PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	STORM SEWER: EAST FRONTAGE ROAD	SHEET 118	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\022509_ss.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 41a

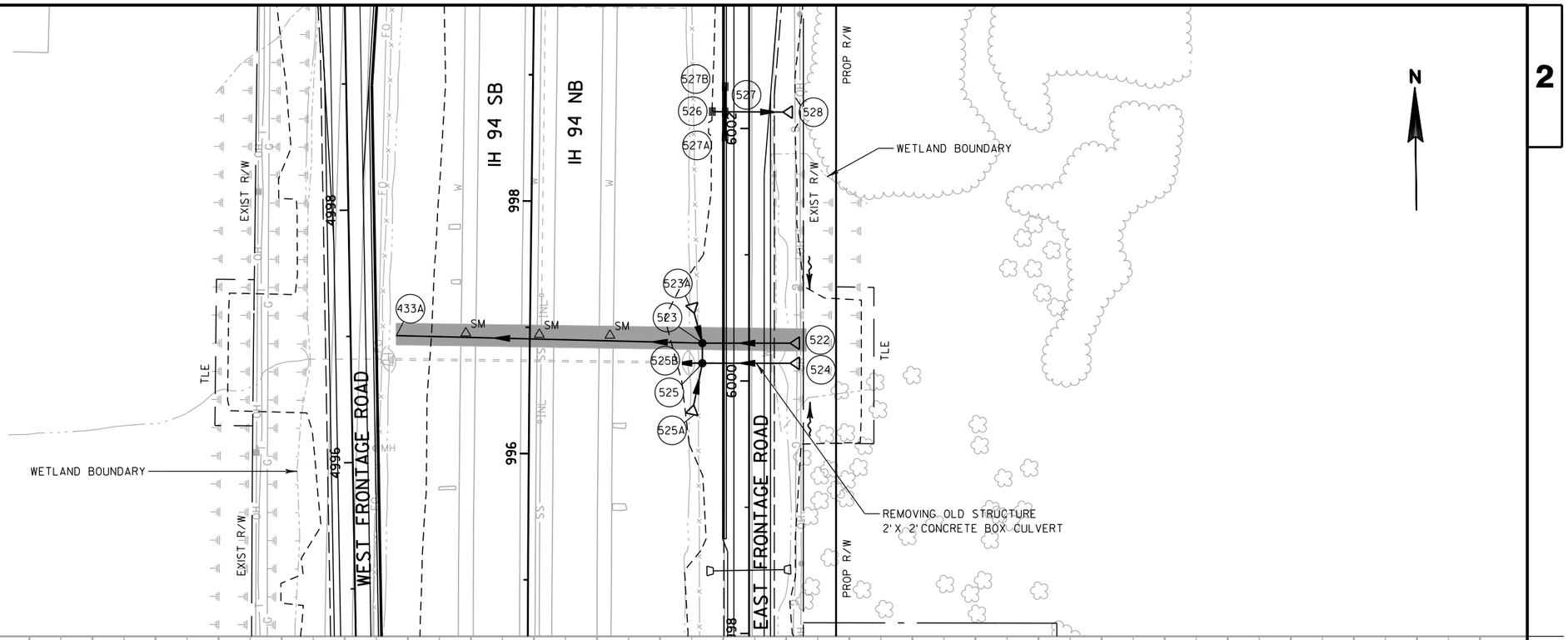
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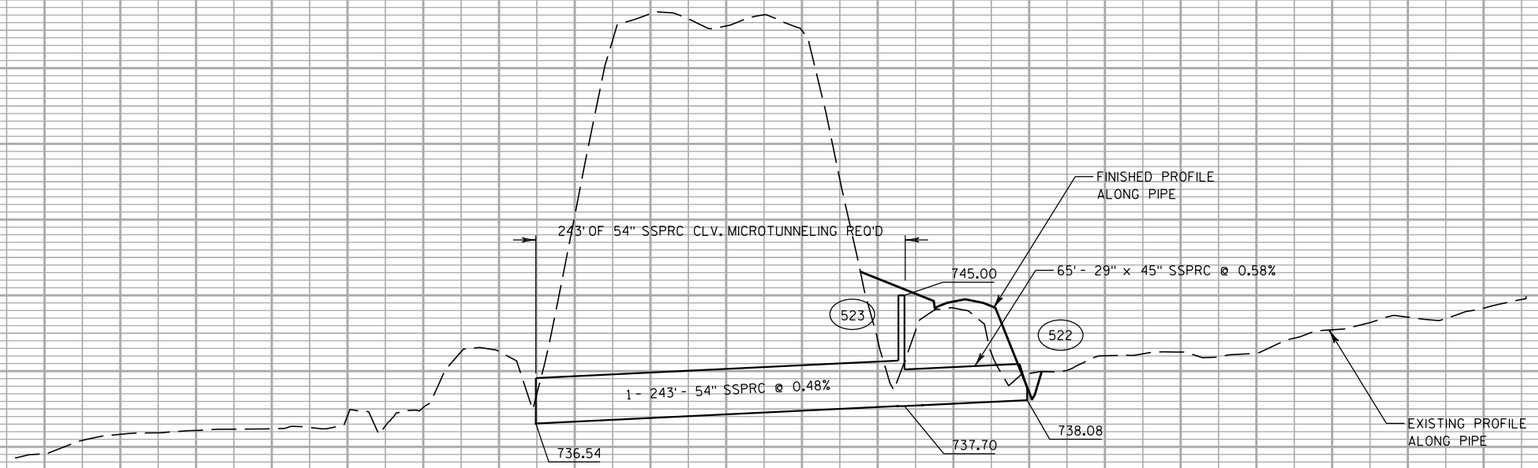
LEGEND

△SM SURFACE SETTLEMENT MARKER (IN PAVEMENT OR SOIL)

NOTES

1. INSTALL PIPE 523 TO 433A THIS STAGE.
2. BLOCK RUNOFF FROM ENTERING PIPE 523 TO 433A AT MH 523. INCIDENTAL TO COST OF PIPE.
3. INSTALL TEMPORARY CONNECTION FROM 525 TO EXISTING CROSS CULVERT (523B).
4. SEE SDD "TRAFFIC CONTROL SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH" FOR IH94 TRAFFIC CONTROL REQUIRED TO ACCESS SURFACE SETTLEMENT MARKERS.





PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	STORM SEWER: MICRO TUNNEL - STAGE 1	SHEET 119	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\022509a_ss.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:100

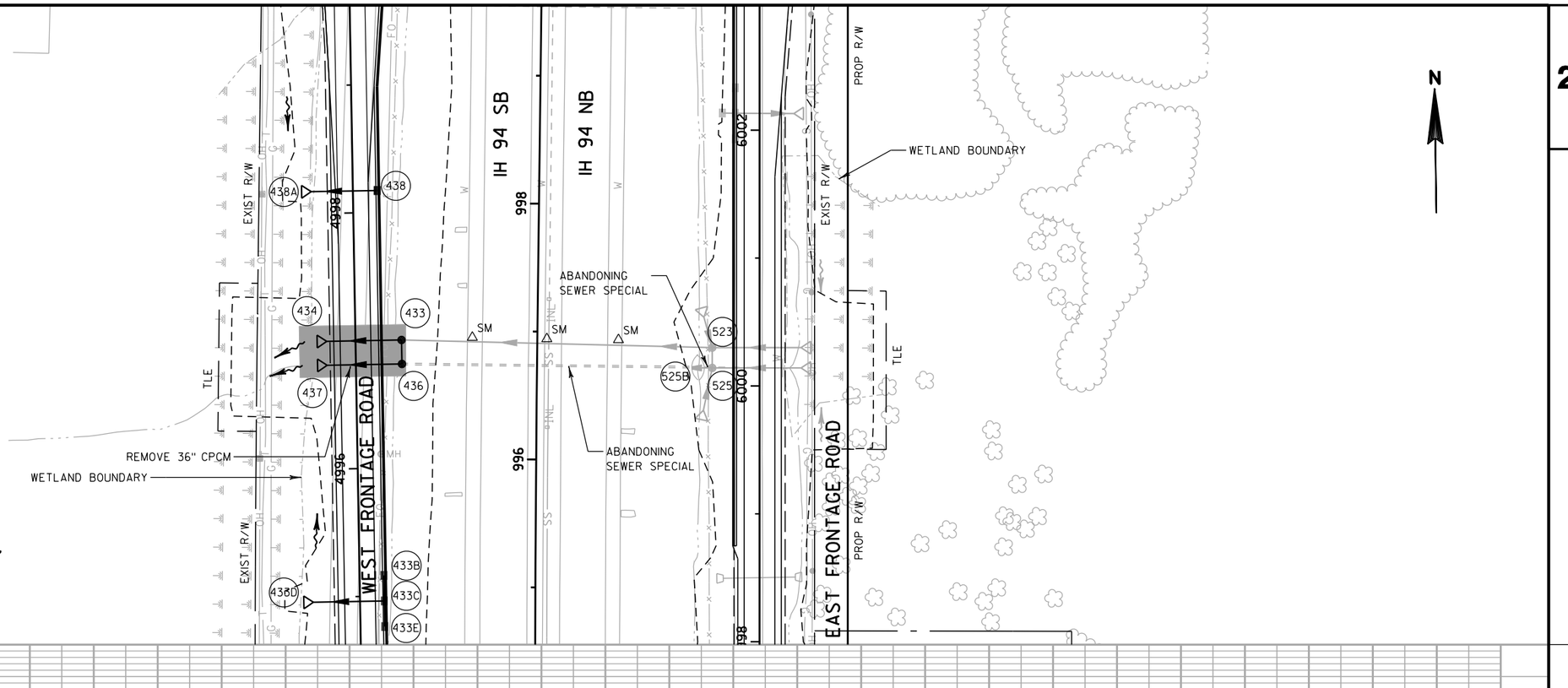
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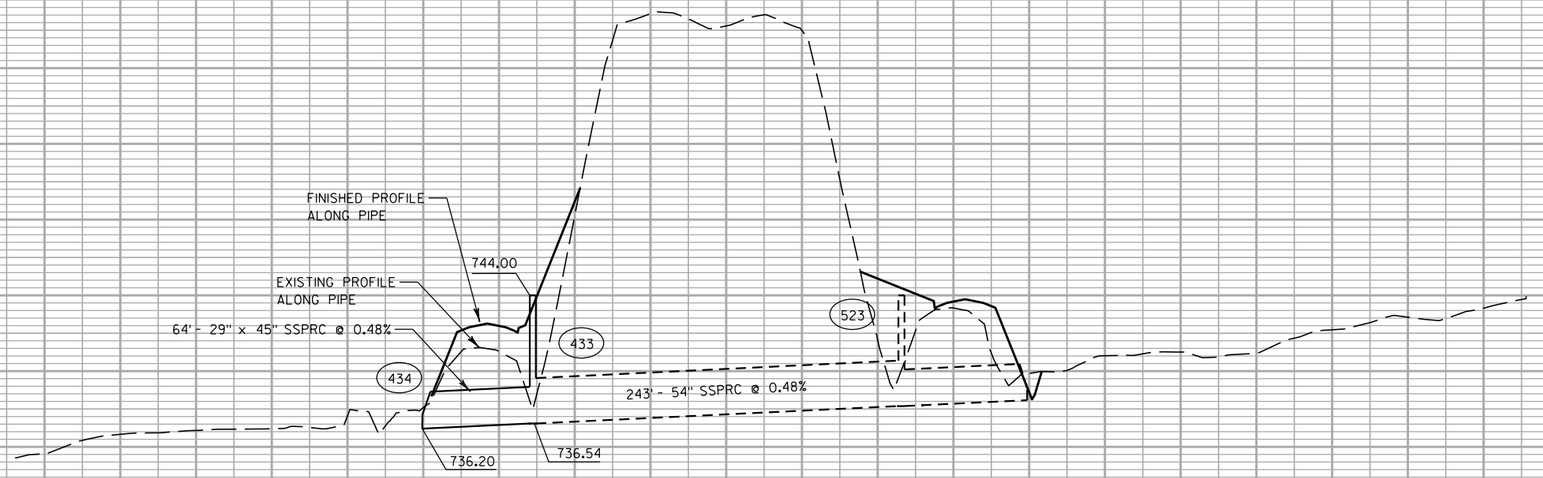
LEGEND

△SM SURFACE SETTLEMENT MARKER (IN PAVEMENT OR SOIL)

NOTES

1. CONSTRUCT MH 433 AND PIPE OUTFALL TO 434. UNBLOCK PIPE 523 TO 433 AT MH 523, INCIDENTAL TO COST OF PIPE.
2. WHEN OUTFALL AT 434 IS ESTABLISHED, ABANDON EXISTING CROSS CULVERT AND PIPE 525 TO 525B. PAID FOR AS ABANDONING SEWER SPECIAL.
3. SEE SDD "TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY" FOR EAST FRONTAGE ROAD TRAFFIC CONTROL TO ABANDON PIPES ADJACENT TO EAST FRONTAGE ROAD.





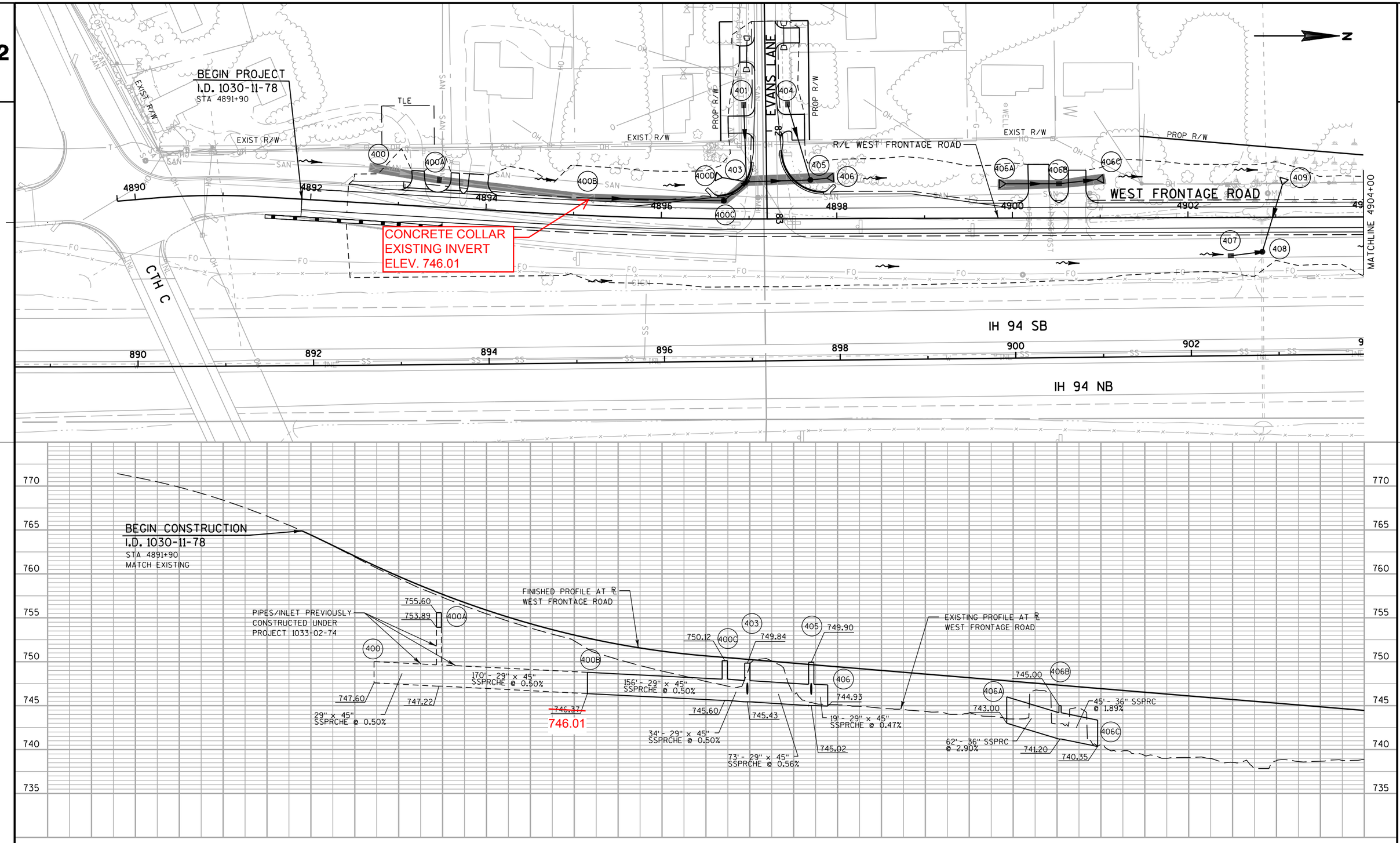
PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	STORM SEWER: MICRO TUNNEL - STAGE 2	SHEET 120	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\022509b_ss.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 41a

10301177-00008RDAPERM

2



PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	STORM SEWER: WEST FRONTAGE ROAD	SHEET 121	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\022510_ss.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 41a

412 RIM RAISED +/-5" TO ACCOMMODATE PIPE

TLE

PROP R/W

EXIST R/W

413

MATCHLINE 4904+00

04

4906

4908

4910

4912

4914

4916

4918

WEST FRONTAGE ROAD

MATCHLINE 4919+00

410 412 411

SIGN

R/L WEST FRONTAGE ROAD

IH 94 SB

906

908

910

912

914

916

918

INL

W

SS

IH 94 NB

SIGN

RIPRAP

FINISHED PROFILE AT ℄ WEST FRONTAGE ROAD

EXISTING PROFILE AT ℄ WEST FRONTAGE ROAD

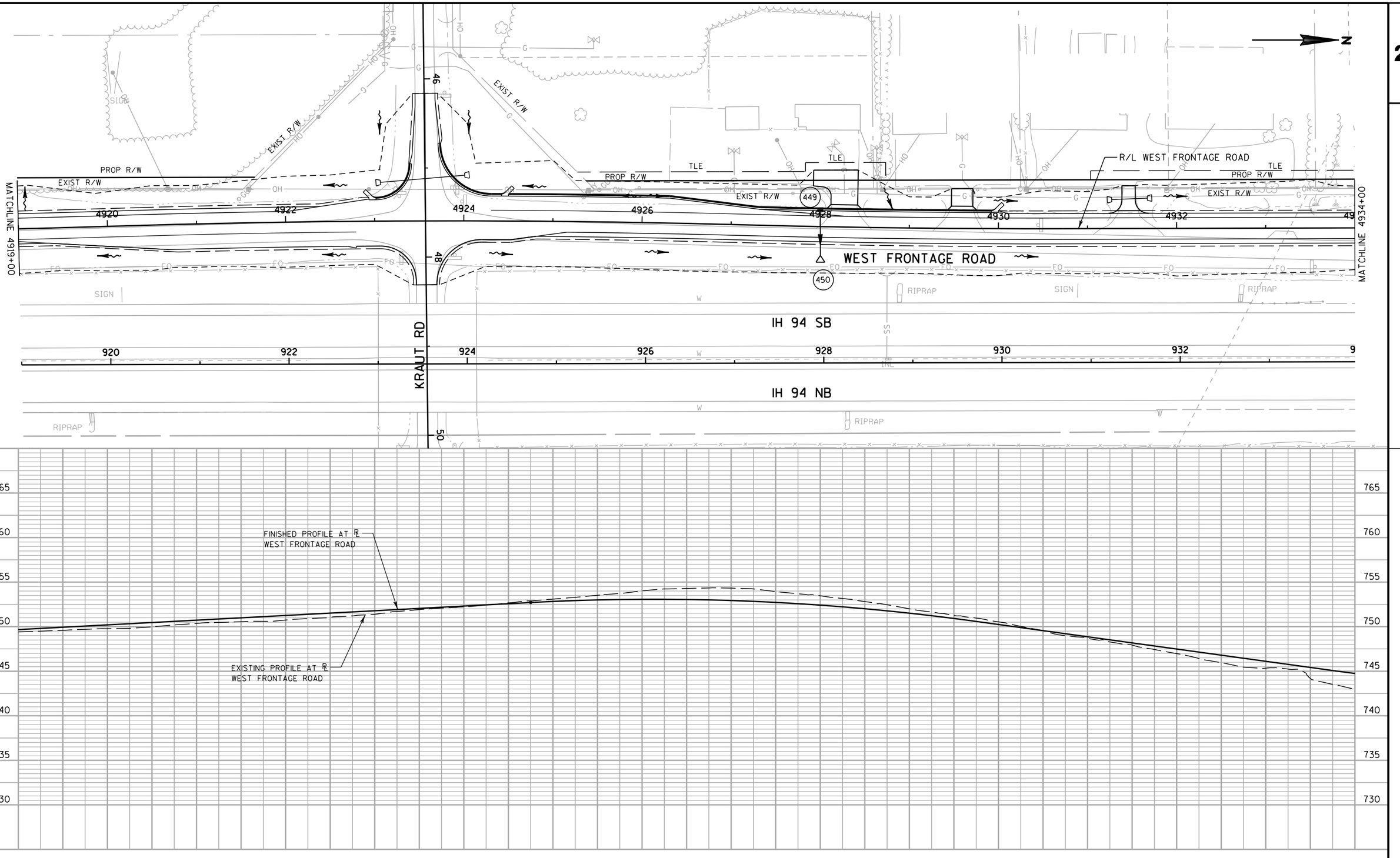
765 760 755 750 745 740 735 730

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	STORM SEWER: WEST FRONTAGE ROAD	SHEET 122	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\022511_ss.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 41a

2



PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	STORM SEWER: WEST FRONTAGE ROAD	SHEET 123	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\022512_ss.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 41a

2

2

N

R/L WEST FRONTAGE ROAD

WEST FRONTAGE ROAD

PROP R/W

EXIST R/W

TLE

MATCHLINE 4934+00

MATCHLINE 4949+00

416 417 415 416A 419 420 420A 421B 421C 420E

34 4936 4938 4940 4942 4944 4946 4948

CONNECT TO EXISTING CP
CONCRETE COLLAR REQ'D

REMOVE EXISTING
INLET ON DRIVEWAY
CULVERT PIPE

IH 94 SB

IH 94 NB

34 936 938 940 942 944 946 948

FINISHED PROFILE AT ℄
WEST FRONTAGE ROAD

EXISTING PROFILE AT ℄
WEST FRONTAGE ROAD

738.20
735.80
734.4
733.30
733.03
732.50
731.78
730.28

48" - 24" x 38"
SSPRCHE @ 0.56%

150' - 24" x 38"
SSPRCHE @ 0.48%

300' - 24" x 38"
SSPRCHE @ 0.50%

150' - 24" x 38"
SSPRCHE @ 0.51%

750 745 740 735 730 725 720 715

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	STORM SEWER: WEST FRONTAGE ROAD	SHEET 124	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\022513_ss.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 41a

2

REMOVE EXISTING DRAINTILE MANHOLE. CONSTRUCT NEW MANHOLE ON DRAINTILE NEAR R/W PER CONSTRUCTION DETAIL. AT APPROX. STA 4954+95 LT; USE INLET COVER TYPE C.

430B RIM RAISED +/-6" TO ACCOMODATE PIPE

428B RIM RAISED +/-6" TO ACCOMODATE PIPE

NORTH PIPE ABANDONED ACCORDING TO SPV.0035.003

R/L WEST FRONTAGE ROAD

WEST FRONTAGE ROAD

IH 94 SB

IH 94 NB

MATCHLINE 4949+00

MATCHLINE 4964+00

NO WEST FRONTAGE ROAD STORM SEWER STA 4964+00 TO STA 4979+00 SEE NEXT SHEET FOR STA 4979+00 TO STA 4994+00

735.77 — 420G

734.50 — 420H — 420J

250' - 24" x 38" SSPRCHE @ 0.49%

729.52

728.30

728.16

728.00

35' - 24" x 38" SSPRCHE @ 0.31%

EXISTING PROFILE AT ℄ WEST FRONTAGE ROAD

FINISHED PROFILE AT ℄ WEST FRONTAGE ROAD

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	STORM SEWER: WEST FRONTAGE ROAD	SHEET 125	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\022514_ss.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:100

10301177-00008RDAPERM

2

2

ADDED 2' RISER SECTION.
RIM ELEV. 750.95
ATTACHED TO EXISTING
STORM SEWER PIPE-
INVERT ELEV. 749.37

N

TLE
TLE
TLE
EXIST R/W
EXIST R/W
SIGN
WEST FRONTAGE ROAD
R/L WEST FRONTAGE ROAD
MATCHLINE 4979+00
MATCHLINE 4994+00
4980
4982
4984
4986
4988
4990
4992
498
432
432A
432B
432C
RIPRAP
RIPRAP
RIPRAP
IH 94 SB
IH 94 NB
980
982
984
986
988
990
992
NO WEST FRONTAGE ROAD STORM SEWER
STA 4964+00 TO STA 4979+00
SEE PREVIOUS SHEET FOR
STA 4949+00 TO STA 4964+00

EXISTING PROFILE AT ℄
WEST FRONTAGE ROAD
FINISHED PROFILE AT ℄
WEST FRONTAGE ROAD

775
770
765
760
755
750
745
740

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	STORM SEWER: WEST FRONTAGE ROAD	SHEET 126	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\022516_ss.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:100

HSL

WISDOT/CADDS SHEET 41a

10301177-00008RDAPERM

ADDED 8' PIPE SECTION ON END OF BOTH PIPE RUNS

FIELD INLET CONNECTED TO UNDERDRAIN TO ALLEVIATE PONDING IN DITCH

WEST FRONTAGE ROAD

R/L WEST FRONTAGE ROAD

IH 94 SB

IH 94 NB

GOLF ROAD

EXIST R/W

PROP R/W

TLE

MATCHLINE 4994+00

MATCHLINE 5009+00

FINISHED PROFILE AT ℄ WEST FRONTAGE ROAD

EXISTING PROFILE AT ℄ WEST FRONTAGE ROAD

20' - 15" SSPRC @ 1.00%

356' - 24" SSPRC @ 0.51%

741.43

739.62

744.28

742.03

742.01

741.99

739.11

738.91

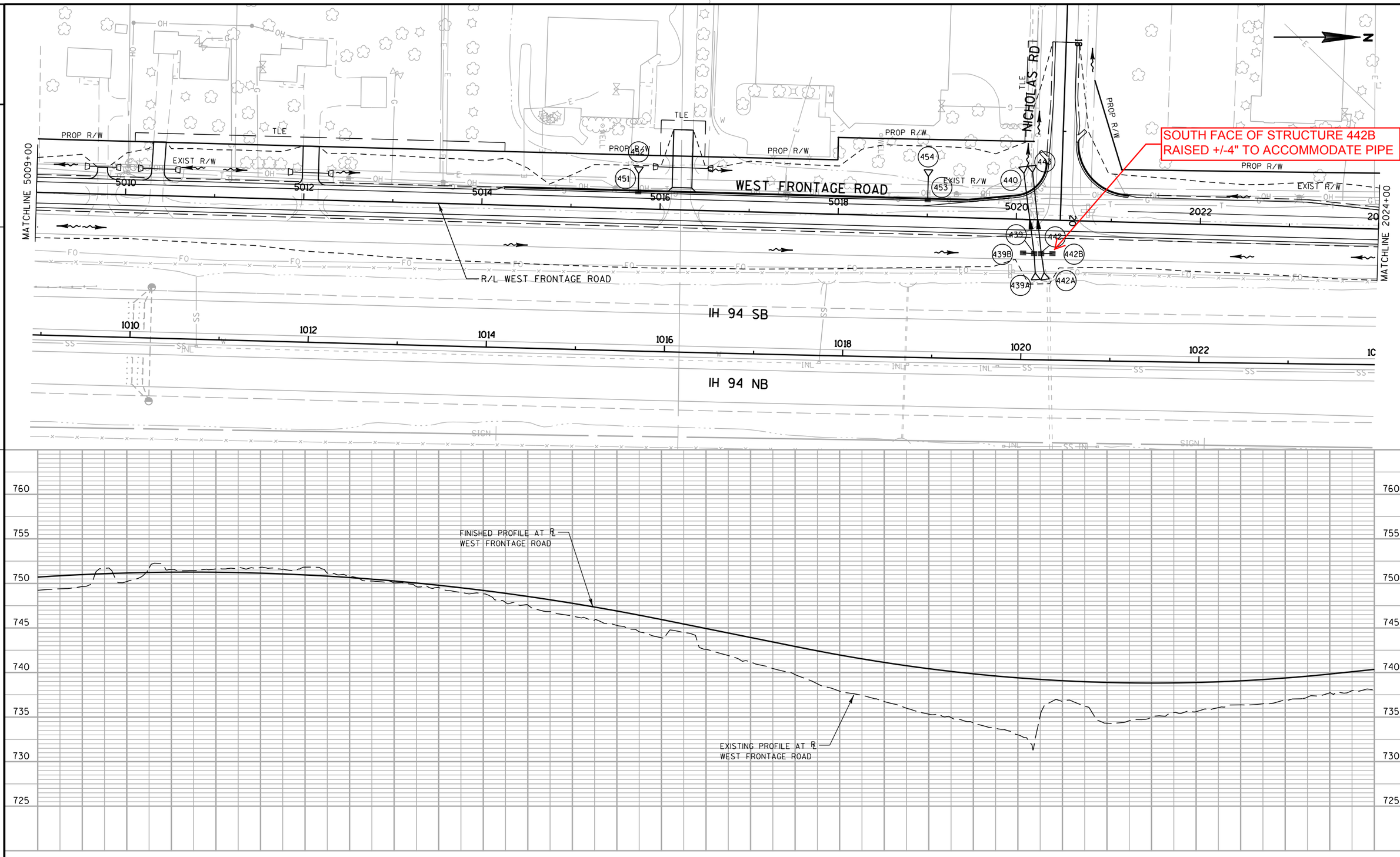
738.16

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	STORM SEWER: WEST FRONTAGE ROAD	SHEET 127	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\022517_ss.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 41a

2



2

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	STORM SEWER: WEST FRONTAGE ROAD	SHEET 128	E

2

2

N

MATCHLINE 2024+00

WEST FRONTAGE ROAD

PROP R/W

EXIST R/W

445

444

3 MILE RD

R/L WEST FRONTAGE ROAD

END PROJECT
I.D. 1030-11-78
STA 2030+25.00

2024 2026 2028 2030 2032 2034 2036 2038

1024 1026 1028 1030 1032 1034 1036 1038

770 765 760 755 750 745 740 735

EXISTING PROFILE AT ℄
WEST FRONTAGE ROAD

FINISHED PROFILE AT ℄
WEST FRONTAGE ROAD

END CONSTRUCTION
I.D. 1030-11-78
STA 2030+25
MATCH EXISTING

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	STORM SEWER: WEST FRONTAGE ROAD	SHEET 129	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\022519_ss.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 41a

2

2

EVANS LANE

R/L EVANS LANE

82

83

4890 4892 4894 4896 4898 4900 4902 4904

WEST FRONTAGE ROAD

SIGN

IH 94 SB

R/L IH 94

890 892 894 896 898 900 902 904

IH 94 NB

MOVE 1MO1

MOVE 1MO2

JCT COUNTY C

5900 5902 5904 5906

5898

5896

EAST FRONTAGE ROAD

R/L EAST FRONTAGE ROAD

MATCHLINE 5908+00

BEGIN PROJECT
I.D. 1030-11-77
STA 5897+00.00

NO PASSING ZONE
REMOVE
1RO1

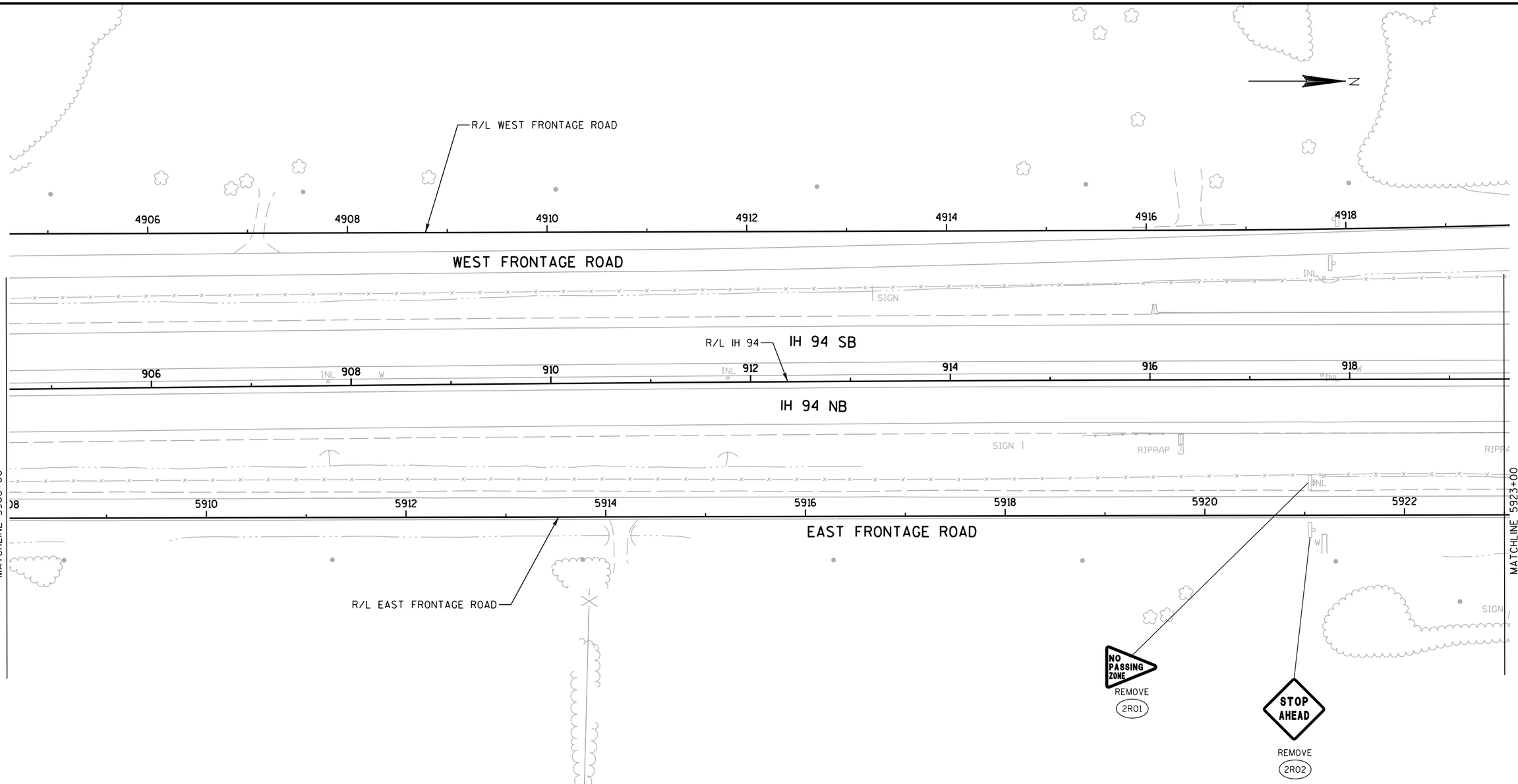
NOTE:
CONTRACTOR SHALL NOT REMOVE EXISTING SIGNING UNTIL THE ROADWAY IS READY FOR NEW SIGNING SO THERE IS NOT A LACK OF PROPER SIGNING WHEN THE ROADWAY IS OPEN TO TRAFFIC.

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE OR BANDED TO UTILITY POLE
- (XXXX) DENOTES SIGN NUMBER
- ESTR EXISTING SIGN TO REMAIN

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	EXISTING SIGNING EAST FRONTAGE ROAD	SHEET 130	E

2



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

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE OR BANDED TO UTILITY POLE
- (XXXX) DENOTES SIGN NUMBER
- ESTR EXISTING SIGN TO REMAIN

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	EXISTING SIGNING EAST FRONTAGE ROAD	SHEET 131	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\023202_es.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:100

2

2

SIGN
SIGN
SIGN
RIPRAP
RIPRAP
RIPRAP
W
W
W
INE
N
R/L WEST FRONTAGE ROAD
WEST FRONTAGE ROAD
IH 94 SB
IH 94 NB
R/L IH 94
4920
4922
4924
4926
4928
4930
4932
4934
46
48
50
920
922
924
926
928
930
932
934
MATCHLINE 5923+00
5924
5926
5928
5930
5932
5934
5936
MATCHLINE 5938+00
EAST FRONTAGE ROAD
R/L EAST FRONTAGE ROAD
CONC
ASPH
STA 5938+00 TO STA 5953+00
NOT SHOWN (NO SIGNING)
SEE NEXT SHEET FOR
STA 5953+00 TO STA 5968+00
KRAUT ROAD
R/L KRAUT ROAD
52
54
55
KRAUT RD
E FRONTAGE RD
NOTIFY MUNICIPALITY
TO REMOVE AND REPLACE
STOP
ALL WAY
REMOVE
3R01
3R02
3R03
3R04
3R05
3R06
3R07
3R08
MOVE
3M02
WEIGHT LIMIT CLASS B
MOVE
3M01
NO PASSING ZONE
REMOVE
3R12
REMOVE
3R13
NOTE:
CONTRACTOR SHALL NOT REMOVE EXISTING SIGNING UNTIL THE ROADWAY IS READY FOR NEW SIGNING SO THERE IS NOT A LACK OF PROPER SIGNING WHEN THE ROADWAY IS OPEN TO TRAFFIC.

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE OR BANDED TO UTILITY POLE

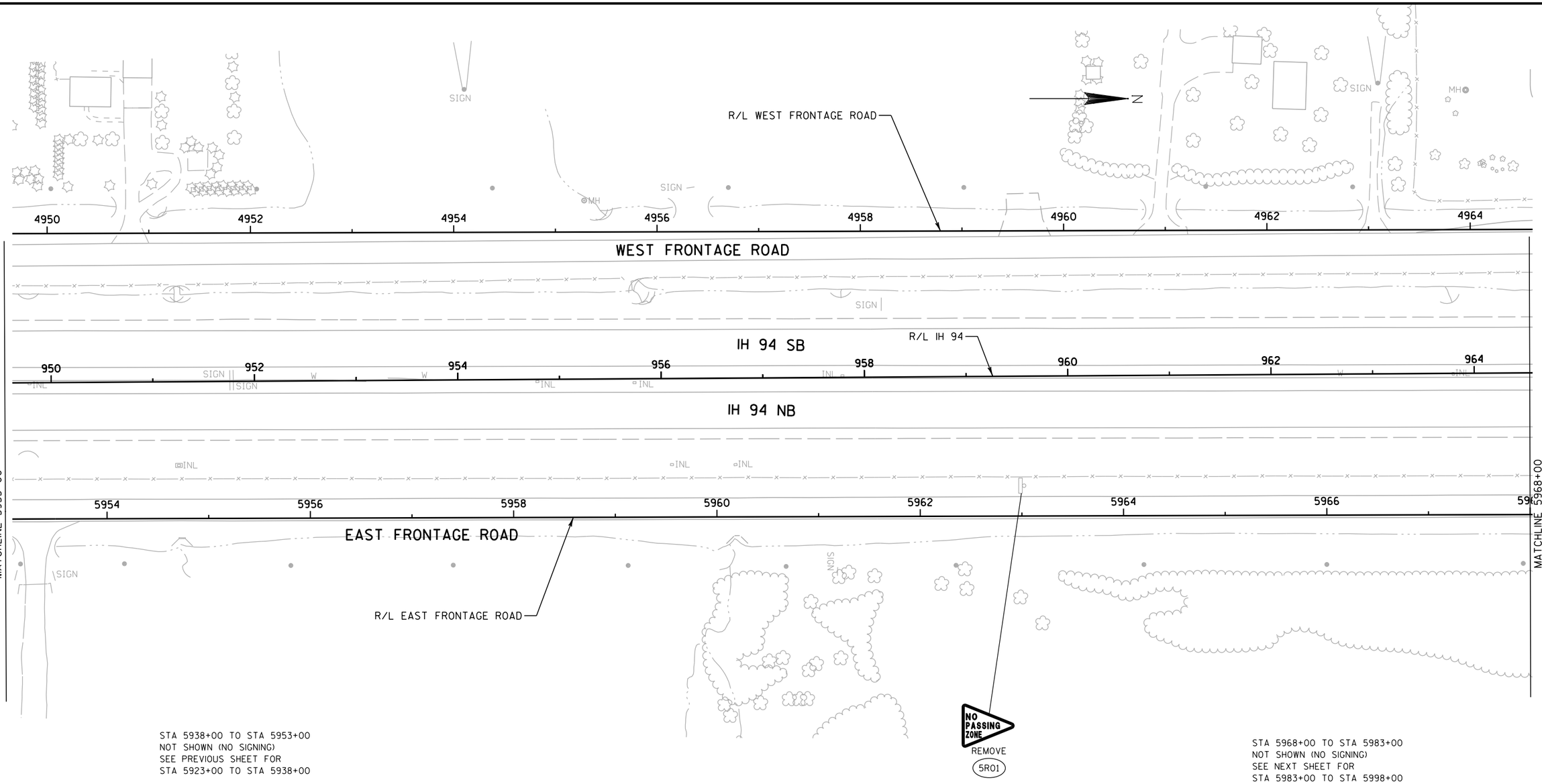
XXXX DENOTES SIGN NUMBER

ESTR EXISTING SIGN TO REMAIN

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	EXISTING SIGNING EAST FRONTAGE ROAD	SHEET 132	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\023203_es.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:100

2



2

STA 5938+00 TO STA 5953+00
NOT SHOWN (NO SIGNING)
SEE PREVIOUS SHEET FOR
STA 5923+00 TO STA 5938+00

STA 5968+00 TO STA 5983+00
NOT SHOWN (NO SIGNING)
SEE NEXT SHEET FOR
STA 5983+00 TO STA 5998+00

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

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE OR BANDED TO UTILITY POLE
- (XXXX) DENOTES SIGN NUMBER
- ESTR EXISTING SIGN TO REMAIN

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	EXISTING SIGNING EAST FRONTAGE ROAD	SHEET 133	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\023204_es.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:100

2

N

R/L WEST FRONTAGE ROAD

SIGN

4980 4982 4984 4986 4988 4990 WEST FRONTAGE ROAD 4992 4994

RIPRAP

RIPRAP

R/L IH 94

980 982 984 986 988 990 992 994

IH 94 SB

IH 94 NB

RIPRAP

MATCHLINE 5983+00

5984 5986 5988 5990 5992 5994 5996 5998

MATCHLINE 5998+00

EAST FRONTAGE ROAD

R/L EAST FRONTAGE ROAD

NO PASSING ZONE

REMOVE

7R01

STA 5968+00 TO STA 5983+00
NOT SHOWN (NO SIGNING)
SEE PREVIOUS SHEET FOR
STA 5953+00 TO STA 5968+00

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

LEGEND

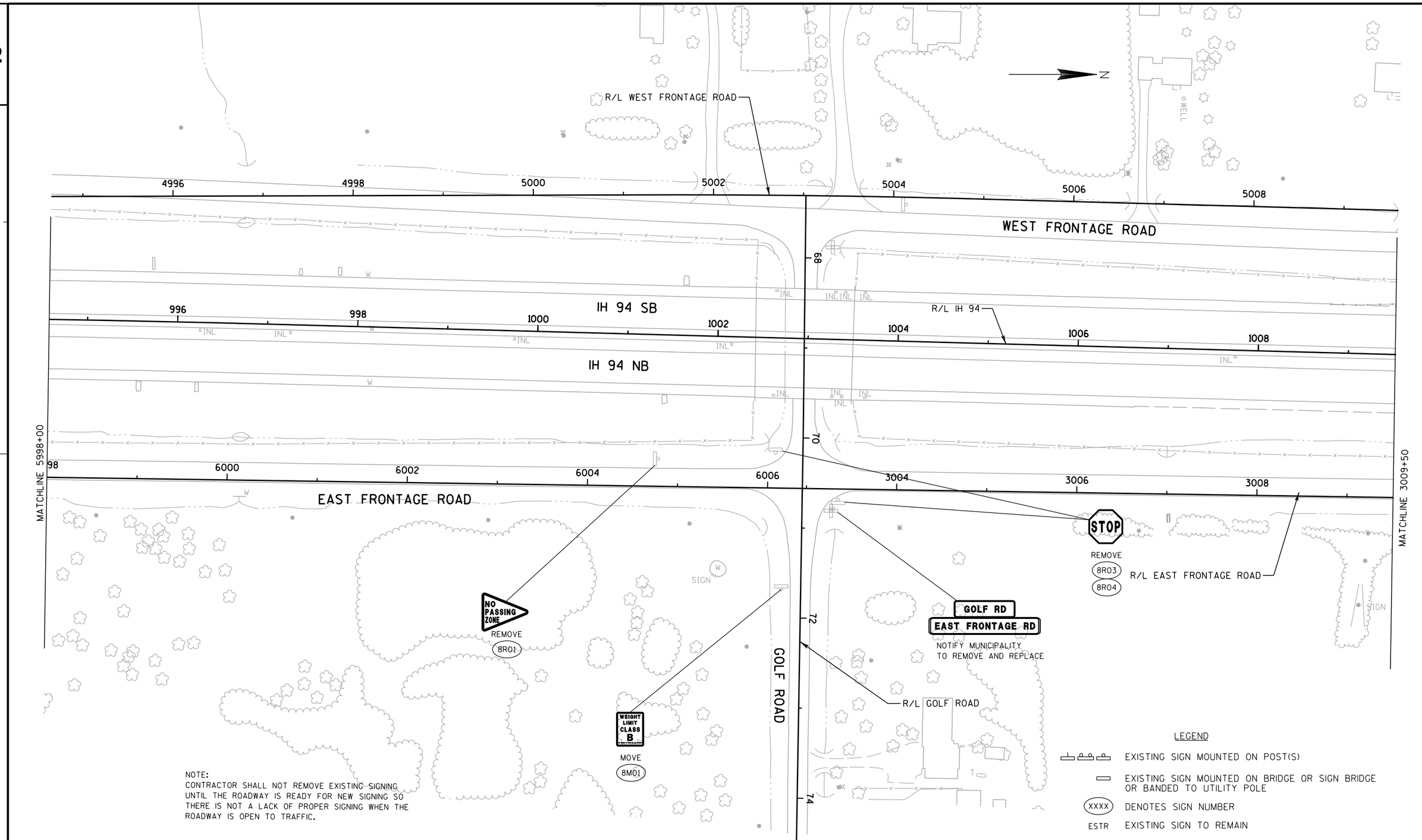
	EXISTING SIGN MOUNTED ON POST(S)
	EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE OR BANDED TO UTILITY POLE
XXXX	DENOTES SIGN NUMBER
ESTR	EXISTING SIGN TO REMAIN

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	EXISTING SIGNING EAST FRONTAGE ROAD	SHEET 134	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\023205_es.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

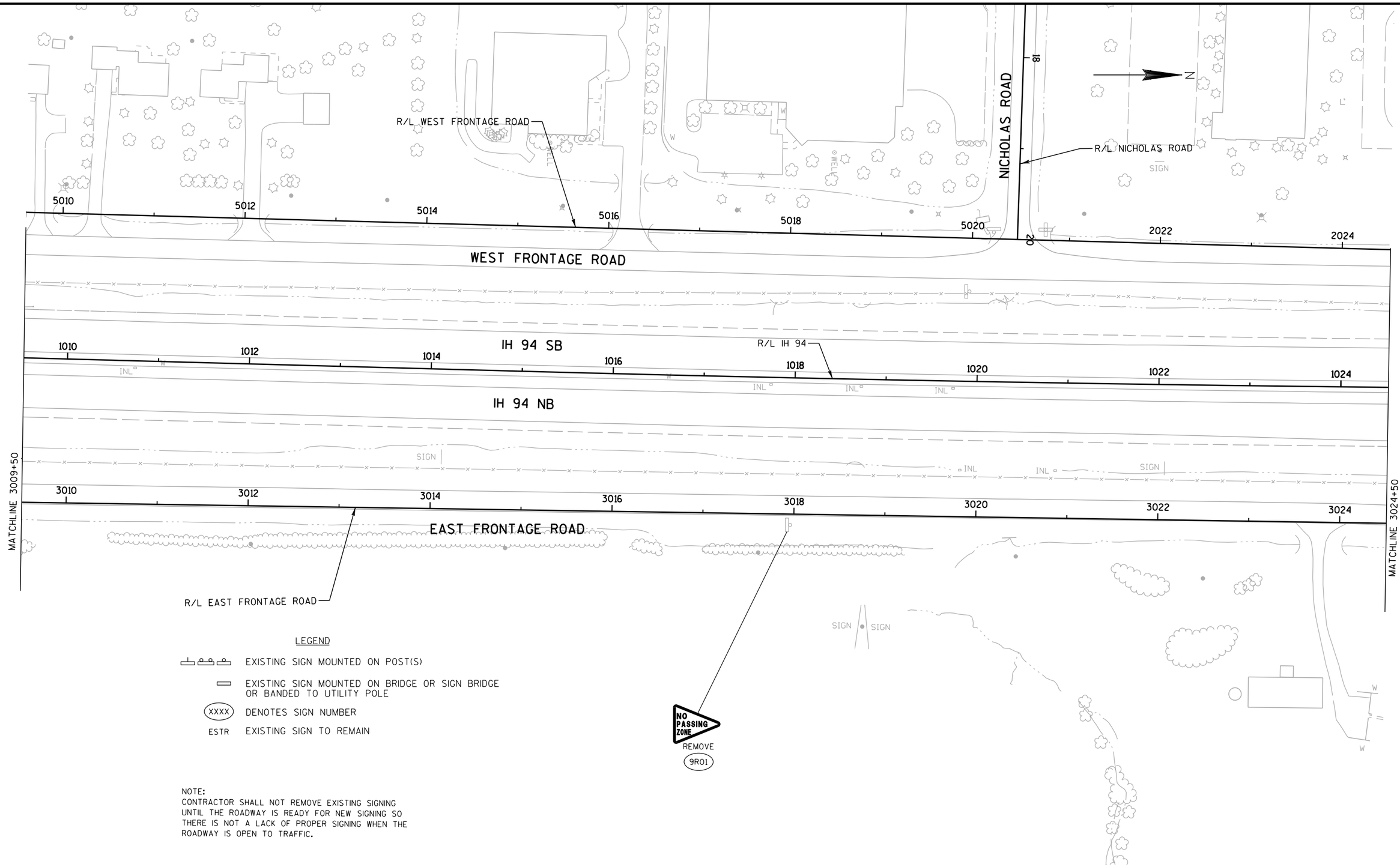
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PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	EXISTING SIGNING EAST FRONTAGE ROAD	SHEET 135	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\023206_es.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:100

2



LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE OR BANDED TO UTILITY POLE
- XXXX — DENOTES SIGN NUMBER
- ESTR — EXISTING SIGN TO REMAIN

NO PASSING ZONE
REMOVE
9R01

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

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	EXISTING SIGNING EAST FRONTAGE ROAD	SHEET 136	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\023207_es.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:100

HSE

2

2

N

3 MILE ROAD

R/L 3 MILE ROAD

R/L WEST FRONTAGE ROAD

WEST FRONTAGE ROAD

2026 2028 2030 2032 2034 2036 2038

IH 94 SB

R/L IH 94

1026 1028 1030 1032 1034 1036 1038

IH 94 NB

MATCHLINE 3024+50

3026 3028 3030 3032 3034 3036 3038

EAST FRONTAGE ROAD

R/L EAST FRONTAGE ROAD

NO PASSING ZONE
REMOVE
10R01

YIELD AHEAD
REMOVE
10R02

END PROJECT
I.D. 1030-11-77
STA 3031+00.00

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

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE OR BANDED TO UTILITY POLE
- (XXXX) DENOTES SIGN NUMBER
- ESTR EXISTING SIGN TO REMAIN

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	EXISTING SIGNING EAST FRONTAGE ROAD	SHEET 137	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\023208_es.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:100

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE OR BANDED TO UTILITY POLE

XXXX DENOTES SIGN NUMBER

ESTR EXISTING SIGN TO REMAIN

N

11MO1
11MO2
MOVE
SPEED LIMIT 25
AXLE WEIGHT LIMIT ONE AXLE 5 TONS ANY TWO AXLES UNDER 10' APART 10 TONS GROSS

11RO2
REMOVE
STOP

11RO1
REMOVE
NO PASSING ZONE

R/L EVANS LANE

NOTIFY MUNICIPALITY TO REMOVE AND REPLACE

EVANS LA
SYLVANIA

11RO5
REMOVE
STOP AHEAD

11RO6
REMOVE
JCT
COUNTY C

EVANS LANE

BEGIN PROJECT
I.D. 1030-11-78
STA 4891+90.00

WEST FRONTAGE ROAD

MATCHLINE 4904+00

CTH C

IH 94 SB

R/L IH 94

IH 94 NB

EAST FRONTAGE ROAD

R/L EAST FRONTAGE ROAD

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	EXISTING SIGNING WEST FRONTAGE ROAD	SHEET 138	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\023209_es.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

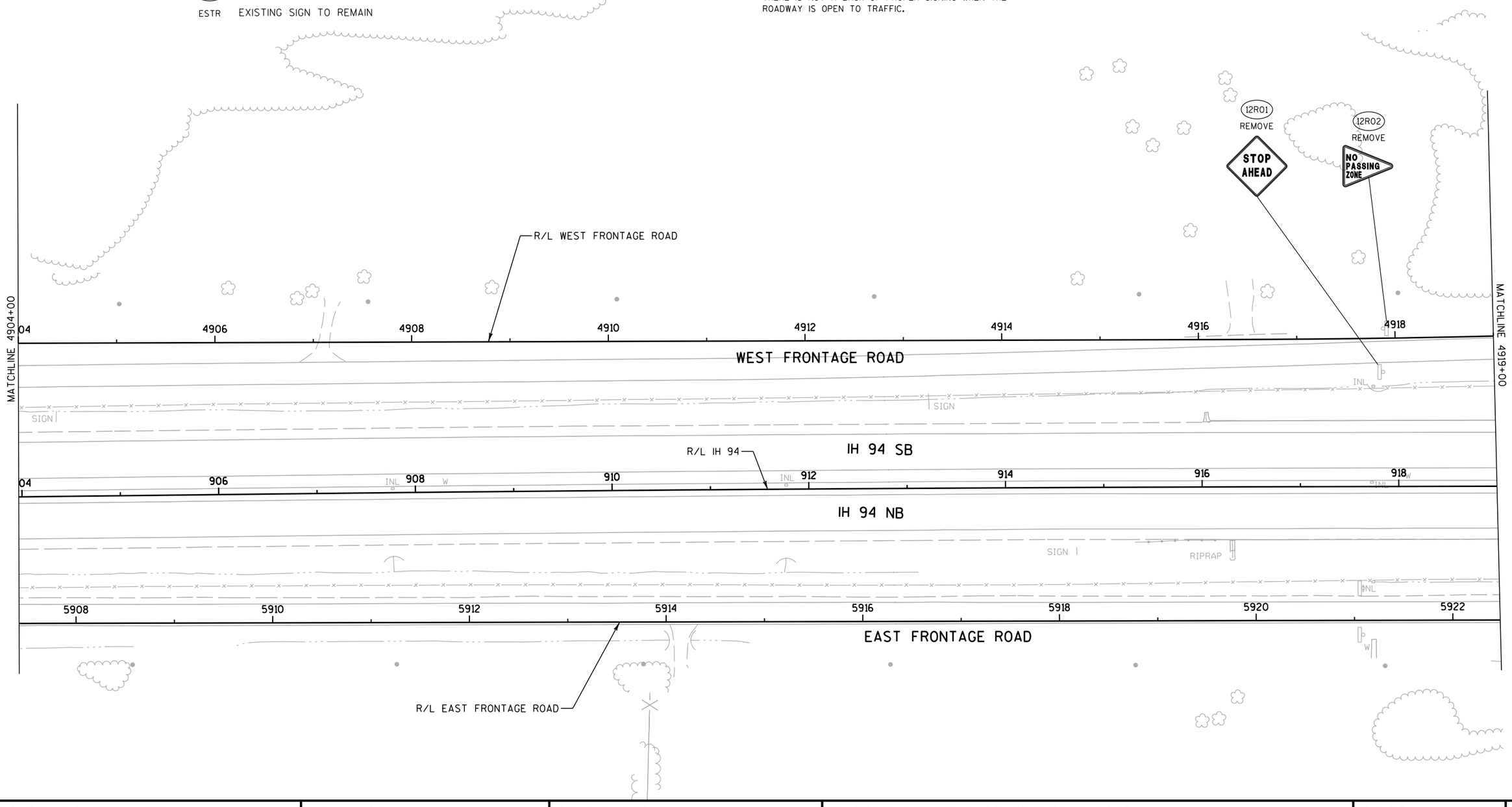
EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE OR BANDED TO UTILITY POLE

(XXXX) DENOTES SIGN NUMBER

ESTR EXISTING SIGN TO REMAIN

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

N



PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	EXISTING SIGNING WEST FRONTAGE ROAD	SHEET 139	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\023210_es.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE OR BANDED TO UTILITY POLE

(XXXX) DENOTES SIGN NUMBER

ESTR EXISTING SIGN TO REMAIN

N

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

13M01
MOVE
SPEED LIMIT 45

13R01
13R02
13R03
13R04
REMOVE
STOP

NOTIFY MUNICIPALITY
TO REMOVE AND REPLACE
50TH RD
SYLVANIA AVE

13R07
REMOVE
STOP AHEAD

13R08
REMOVE
NO PASSING ZONE

KRAUT RD

SEPTIC
SEPTIC
SIGN
SIGN

R/L WEST FRONTAGE ROAD

MATCHLINE 4919+00

4920 4922 4924 4926 4928 4930 4932

MATCHLINE 4934+00

WEST FRONTAGE ROAD

SIGN
RIPRAP
SIGN
RIPRAP

IH 94 SB

R/L IH 94

920 922 924 926 928 930 932

IH 94 NB

RIPRAP
RIPRAP

5924 5926 5928 5930 5932 5934 5936

EAST FRONTAGE ROAD

SIGN

R/L EAST FRONTAGE ROAD

R/L KRAUT ROAD

STA 5934+00 TO STA 5964+00
NOT SHOWN (NO SIGNING)
SEE NEXT SHEET FOR
STA 5964+00 TO STA 5979+00

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	EXISTING SIGNING WEST FRONTAGE ROAD	SHEET 140	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\023211_es.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE OR BANDED TO UTILITY POLE

XXXX DENOTES SIGN NUMBER

ESTR EXISTING SIGN TO REMAIN

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

N

16R01 REMOVE
NO PASSING ZONE

16R04 REMOVE
STOP AHEAD

NOTIFY MUNICIPALITY TO REMOVE AND REPLACE
TWO MILE RD
SYLVANIA AVE

16R05 REMOVE
STOP

16M01 MOVE

16R06 REMOVE

R/L 2 MILE ROAD

2 MILE RD

625' +/-

R/L WEST FRONTAGE ROAD

WEST FRONTAGE ROAD

MATCHLINE 4964+00

MATCHLINE 4979+00

4964 4966 4968 4970 4972 4974 4976 4978

R/L IH 94

IH 94 SB

IH 94 NB

5968 5970 5972 5974 5976 5978 5980 5982

EAST FRONTAGE ROAD

STA 5934+00 TO STA 5964+00
NOT SHOWN (NO SIGNING)
SEE PREVIOUS SHEET FOR
STA 5919+00 TO STA 5934+00

R/L EAST FRONTAGE ROAD

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	EXISTING SIGNING WEST FRONTAGE ROAD	SHEET 141	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\023212_es.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

2

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

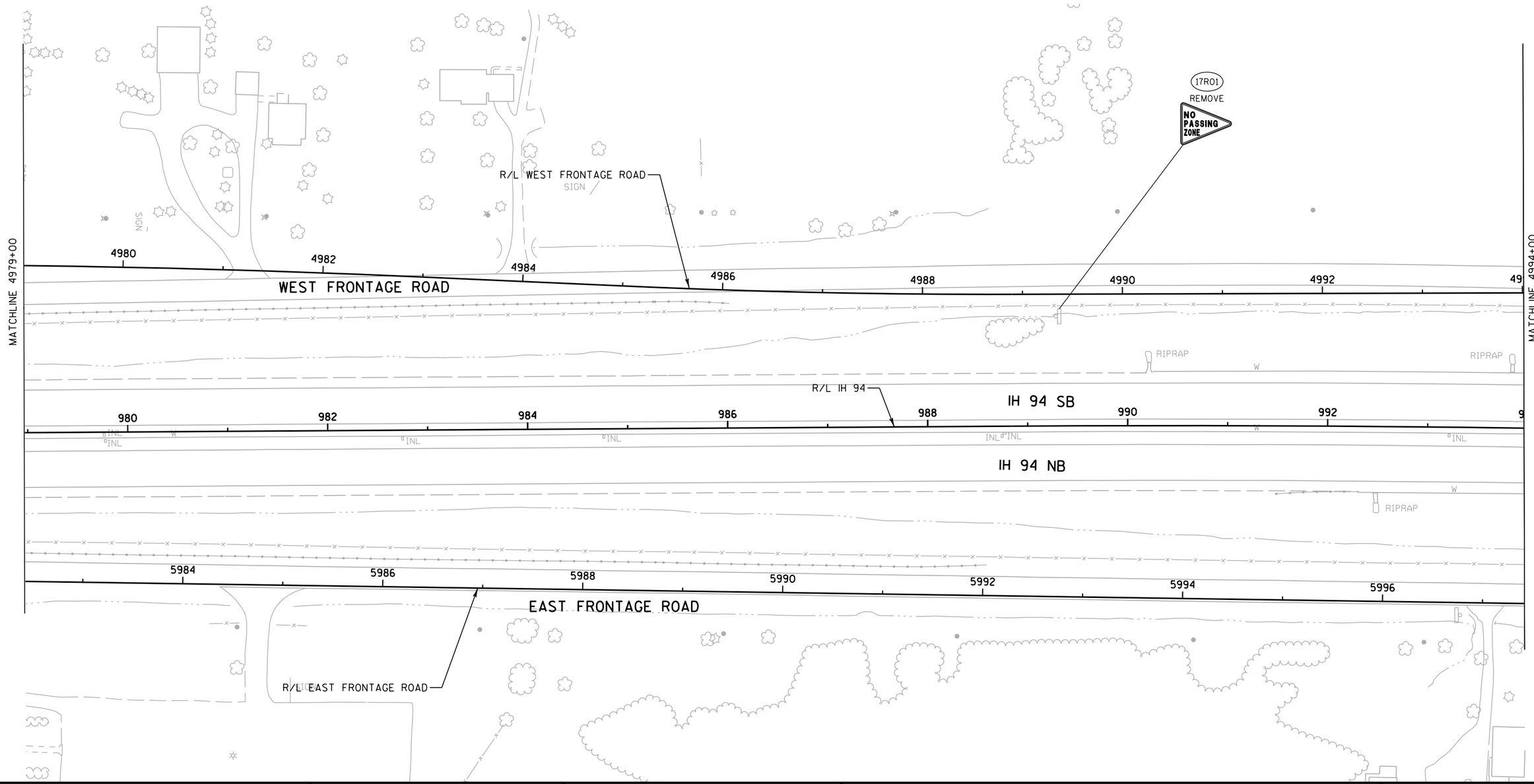
EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE OR BANDED TO UTILITY POLE

(XXXX) DENOTES SIGN NUMBER

ESTR EXISTING SIGN TO REMAIN

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

N



PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	EXISTING SIGNING WEST FRONTAGE ROAD	SHEET 142	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\023213_es.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE OR BANDED TO UTILITY POLE

XXXX DENOTES SIGN NUMBER

ESTR EXISTING SIGN TO REMAIN

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

N

NOTIFY MUNICIPALITY TO REMOVE AND REPLACE

GOLF RD

STOP

REMOVE 18R01

18R03 REMOVE

NO PASSING ZONE

R/L WEST FRONTAGE ROAD

WELL

WEST FRONTAGE ROAD

4996 4998 5000 5002 5004 5006 5008

MATCHLINE 5009+00

R/L IH 94

IH 94 SB

IH 94 NB

994 996 998 1000 1002 1004 1006 1008

68

70

72

5998 6000 6002 6004 6006

EAST FRONTAGE ROAD

3004 3006 3008

SIGN

GOLF RD

R/L GOLF ROAD

R/L EAST FRONTAGE ROAD

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	EXISTING SIGNING WEST FRONTAGE ROAD	SHEET 143	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\023214_es.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

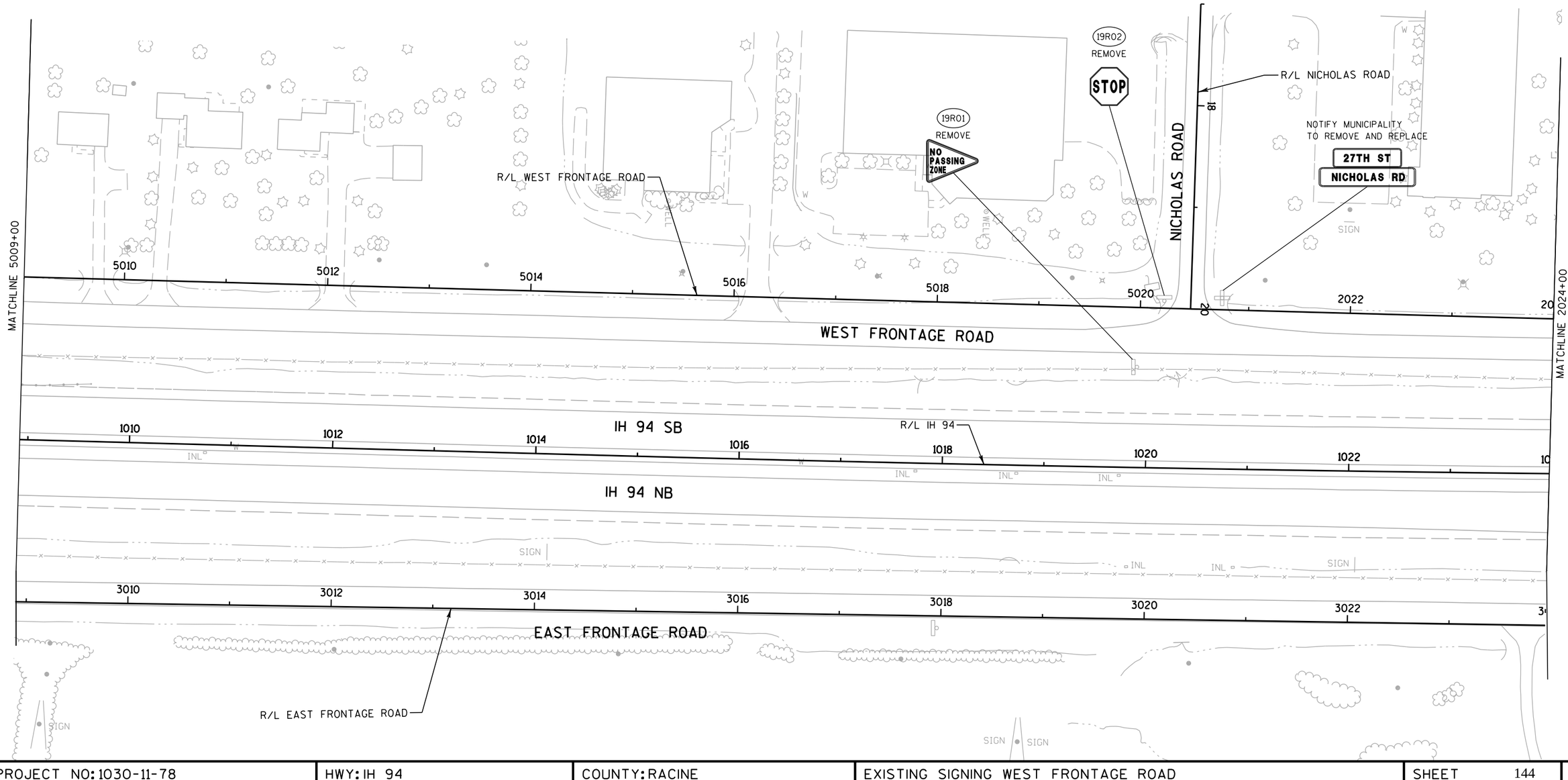
EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE OR BANDED TO UTILITY POLE

XXXX DENOTES SIGN NUMBER

ESTR EXISTING SIGN TO REMAIN

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

N



PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	EXISTING SIGNING WEST FRONTAGE ROAD	SHEET 144	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\023215_es.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE OR BANDED TO UTILITY POLE

XXXX DENOTES SIGN NUMBER

ESTR EXISTING SIGN TO REMAIN

N

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

NOTIFY MUNICIPALITY TO REMOVE AND REPLACE

27TH ST
3 MILE RD

20R05 REMOVE

STOP

20R06 REMOVE

STOP AHEAD

20R03 REMOVE

NO PASSING ZONE

20R04 REMOVE

MOVE 20M01

SPEED LIMIT 45
WEIGHT LIMIT CLASS B

MOVE 20M02

MOVE 20M03

3 MILE ROAD

R/L 3 MILE ROAD

20R07 REMOVE

END PROJECT
I.D. 1030-11-78
STA 2030+25.00

R/L WEST FRONTAGE ROAD

MATCHLINE 2024+00

WEST FRONTAGE ROAD

IH 94 SB

R/L IH 94

IH 94 NB

EAST FRONTAGE ROAD

R/L EAST FRONTAGE ROAD

675' +/-

SIGN J

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	EXISTING SIGNING WEST FRONTAGE ROAD	SHEET 145	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\023216_es.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

2

2

EVANS LANE

R/L EVANS LANE

82

83

4890 4892 4894 4896 4898 4900 4902 4904

WEST FRONTAGE ROAD

SIGN

R/L IH 94

IH 94 SB

890 892 894 896 898 900 902 904

1MO1

W1-6
48"x24"

W1-2L
36" X 36"
1-02

IH 94 NB

1MO2

JCT
COUNTY
C

40
M.P.H.

W13-1
24" X 24"
1-03

5896 5898 5900 5902 5904 5906 5908+00

MATCHLINE 5908+00

EAST FRONTAGE ROAD

R/L EAST FRONTAGE ROAD

1-01

SPEED
LIMIT
45

R2-1
24" X 30"

BEGIN PROJECT
I.D. 1030-11-77
STA 5897+00.00

CTH C

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON POST(S)

EXISTING LIGHT OR SIGNAL POLE

XXX DENOTES SIGN NUMBER

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	PERMANENT SIGNING EAST FRONTAGE ROAD	SHEET 146	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\023251_ps.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:100

2

2

N

R/L WEST FRONTAGE ROAD

4906 4908 4910 4912 4914 4916 4918

WEST FRONTAGE ROAD

SIGN

R/L IH 94

IH 94 SB

906 908 910 912 914 916 918

INL W

IH 94 NB

SIGN

RIPRAP

MATCHLINE 5908+00

5908 5910 5912 5914 5916 5918 5920 5922

MATCHLINE 5923+00

2-01 NO PASSING ZONE
W14-3
48" X 36"

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

R/L EAST FRONTAGE ROAD

EAST FRONTAGE ROAD

2-02
W3-1
36" X 36"

2-03 NO PASSING ZONE
W14-3
48" X 36"

2-04 ONLY
R3-8
36" X 30"

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

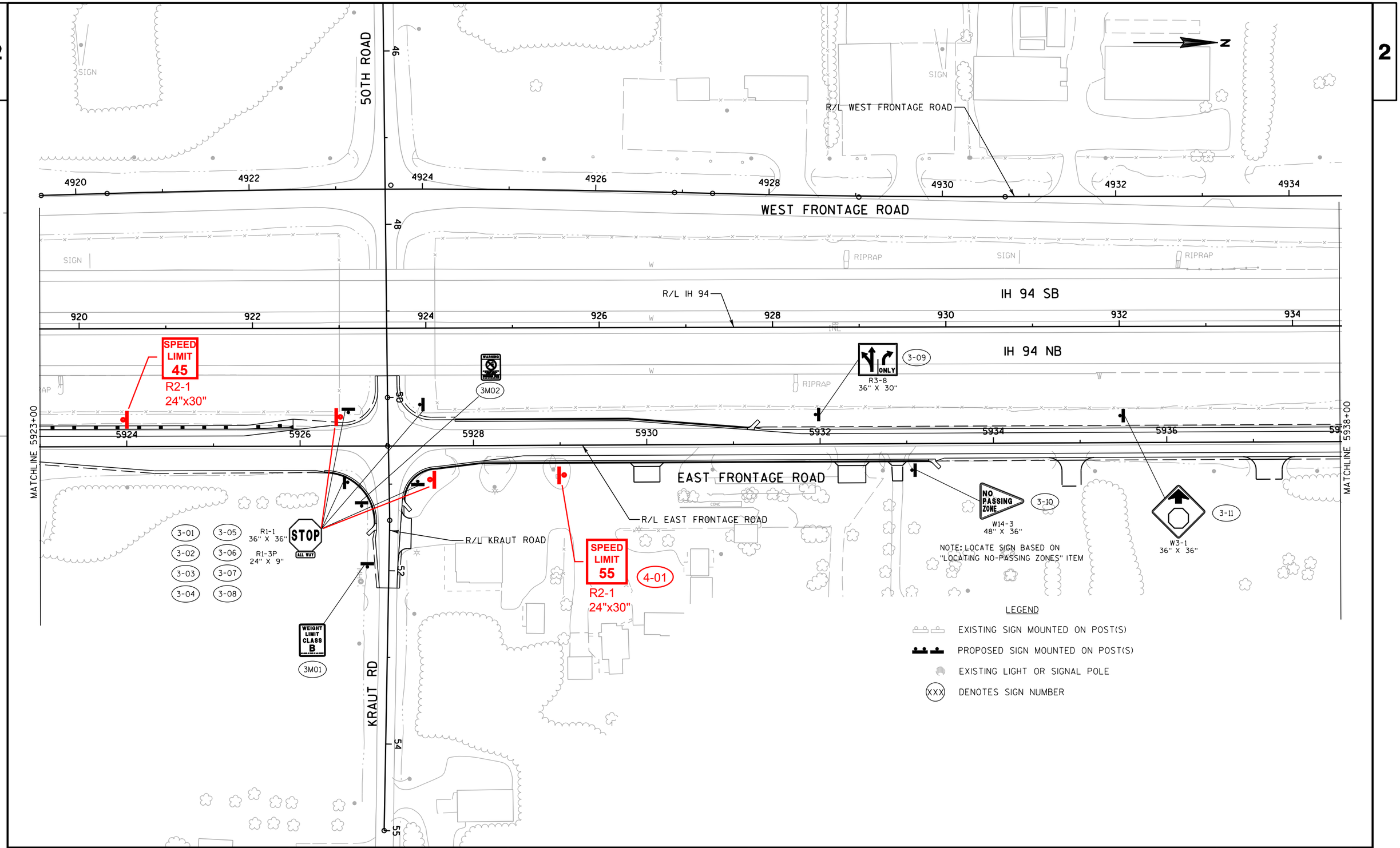
LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POST(S)
- EXISTING LIGHT OR SIGNAL POLE
- (XXX) DENOTES SIGN NUMBER

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	PERMANENT SIGNING EAST FRONTAGE ROAD	SHEET 147	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\023252_ps.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:100

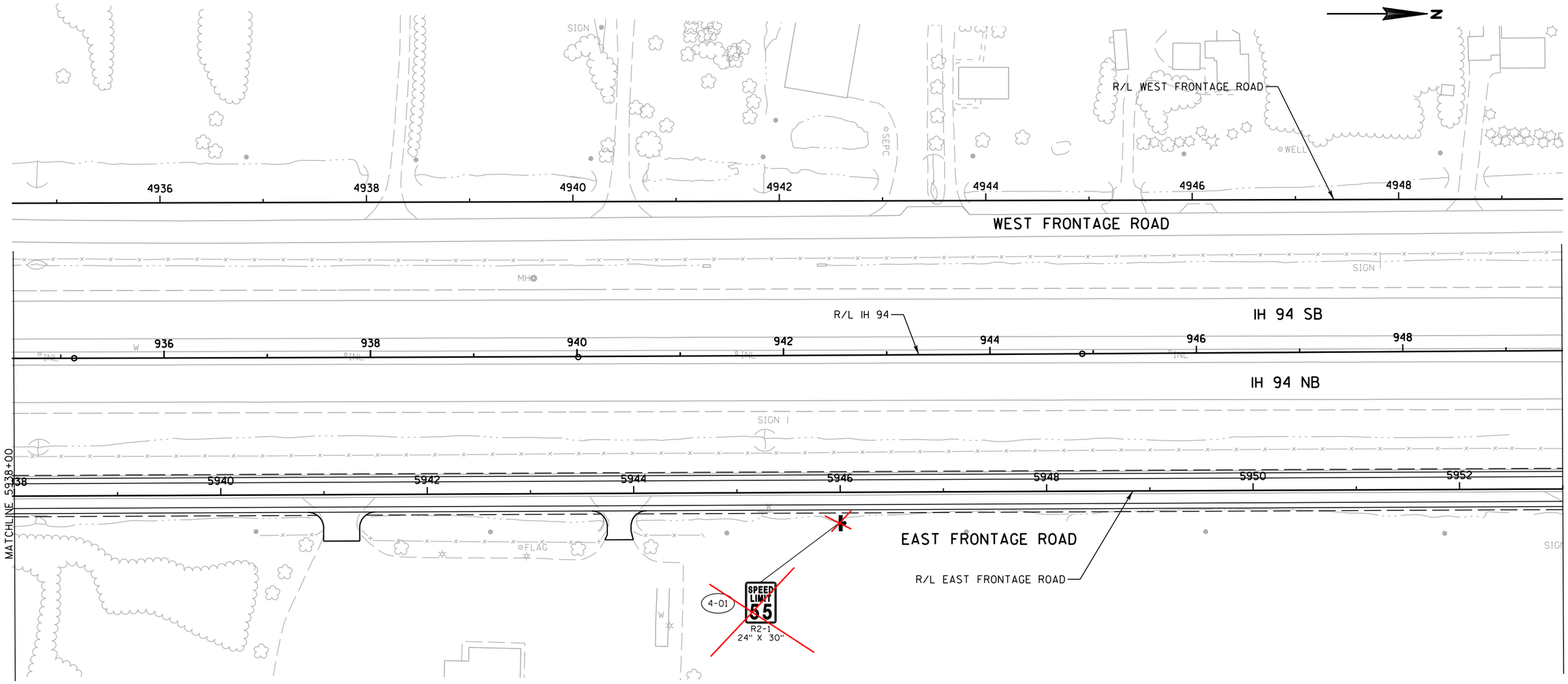
2



PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	PERMANENT SIGNING EAST FRONTAGE ROAD	SHEET 148 HOL	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\023253_ps.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:100

2



STA 5953+00 TO STA 5968+00
NOT SHOWN (NO SIGNING)
SEE NEXT SHEET FOR
STA 5968+00 TO STA 5983+00

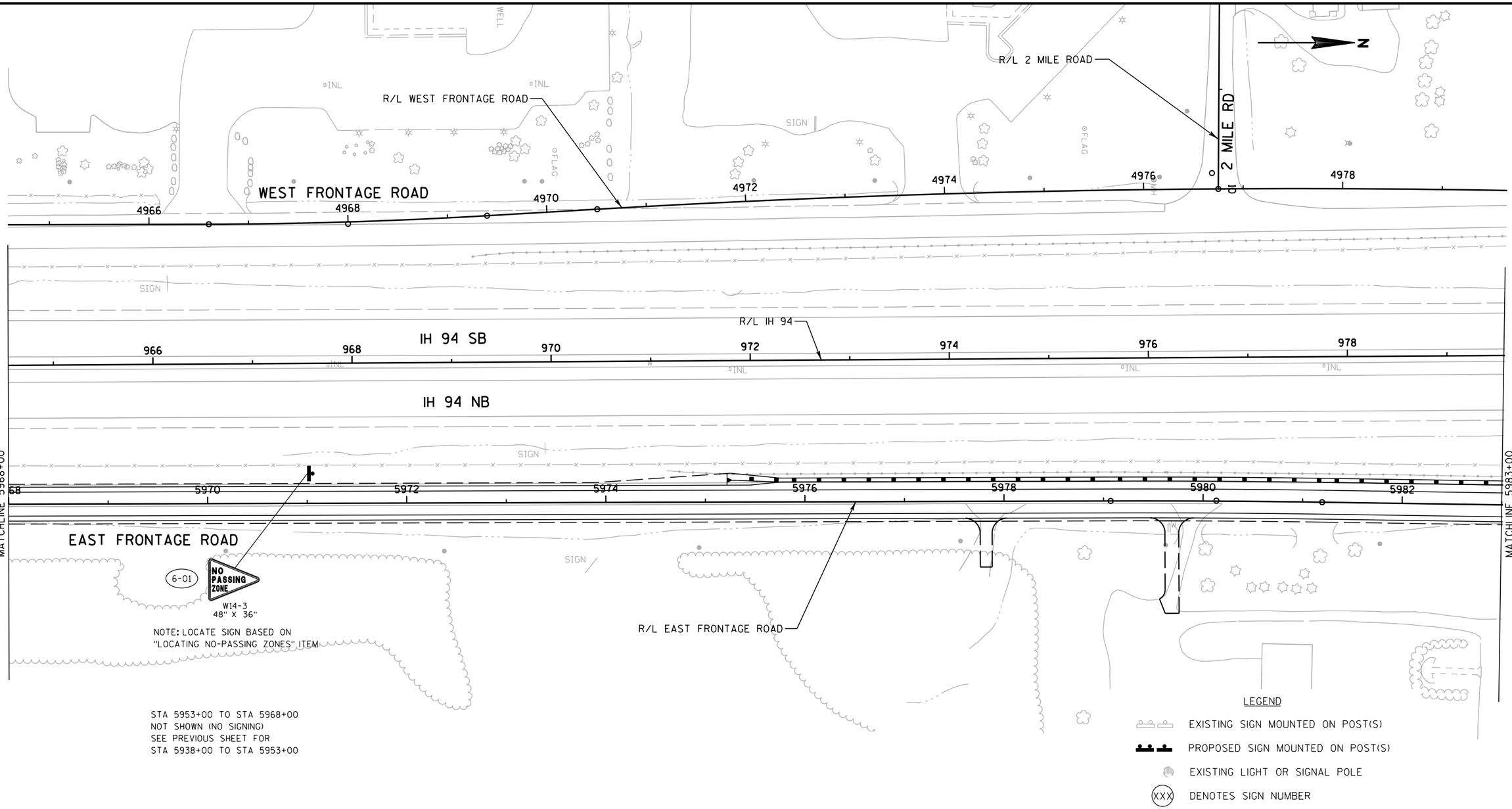
LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POST(S)
- EXISTING LIGHT OR SIGNAL POLE
- (XXX) DENOTES SIGN NUMBER

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	PERMANENT SIGNING EAST FRONTAGE ROAD	SHEET 149	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\023254_ps.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:100

2



PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	PERMANENT SIGNING EAST FRONTAGE ROAD	SHEET 150	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\023256_ps.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:100

2

2

N

R/L WEST FRONTAGE ROAD
SIGN

WEST FRONTAGE ROAD

4980 4982 4984 4986 4988 4990 4992 4994

RIPRAP RIPRAP

R/L IH 94

IH 94 SB

980 982 984 986 988 990 992 994

INL INL INL INL INL INL INL INL

IH 94 NB

RIPRAP RIPRAP

7-01
SPEED LIMIT 55
R2-1
24" X 30"

MATCHLINE 5983+00

5984 5986 5988 5990 5992 5994 5996

MATCHLINE 5998+00

EAST FRONTAGE ROAD

R/L EAST FRONTAGE ROAD

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON POST(S)

EXISTING LIGHT OR SIGNAL POLE

XXX DENOTES SIGN NUMBER

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	PERMANENT SIGNING EAST FRONTAGE ROAD	SHEET 151	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\023257_ps.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:100

2

2

N

R/L WEST FRONTAGE ROAD

WEST FRONTAGE ROAD

4996 4998 5000 5002 5004 5006 5008

IH 94 SB

R/L IH 94

996 998 1000 1002 1004 1006 1008

IH 94 NB

WELL

68

SPEED LIMIT 55

7-01

R2-1
24"x30"

8-01 STOP R1-1 36" X 36"

70

MATCHLINE 5998+00

98 6000 6002 6004 6006

EAST FRONTAGE ROAD

3004 3006 3008

MATCHLINE 3009+50

SIGN

GOLF RD

72

STOP 8-02 R1-1 36" X 36"

R/L GOLF ROAD

R/L EAST FRONTAGE ROAD

SPEED LIMIT 55

R2-1
24"x30"

WEIGHT LIMIT CLASS B

8M01

74

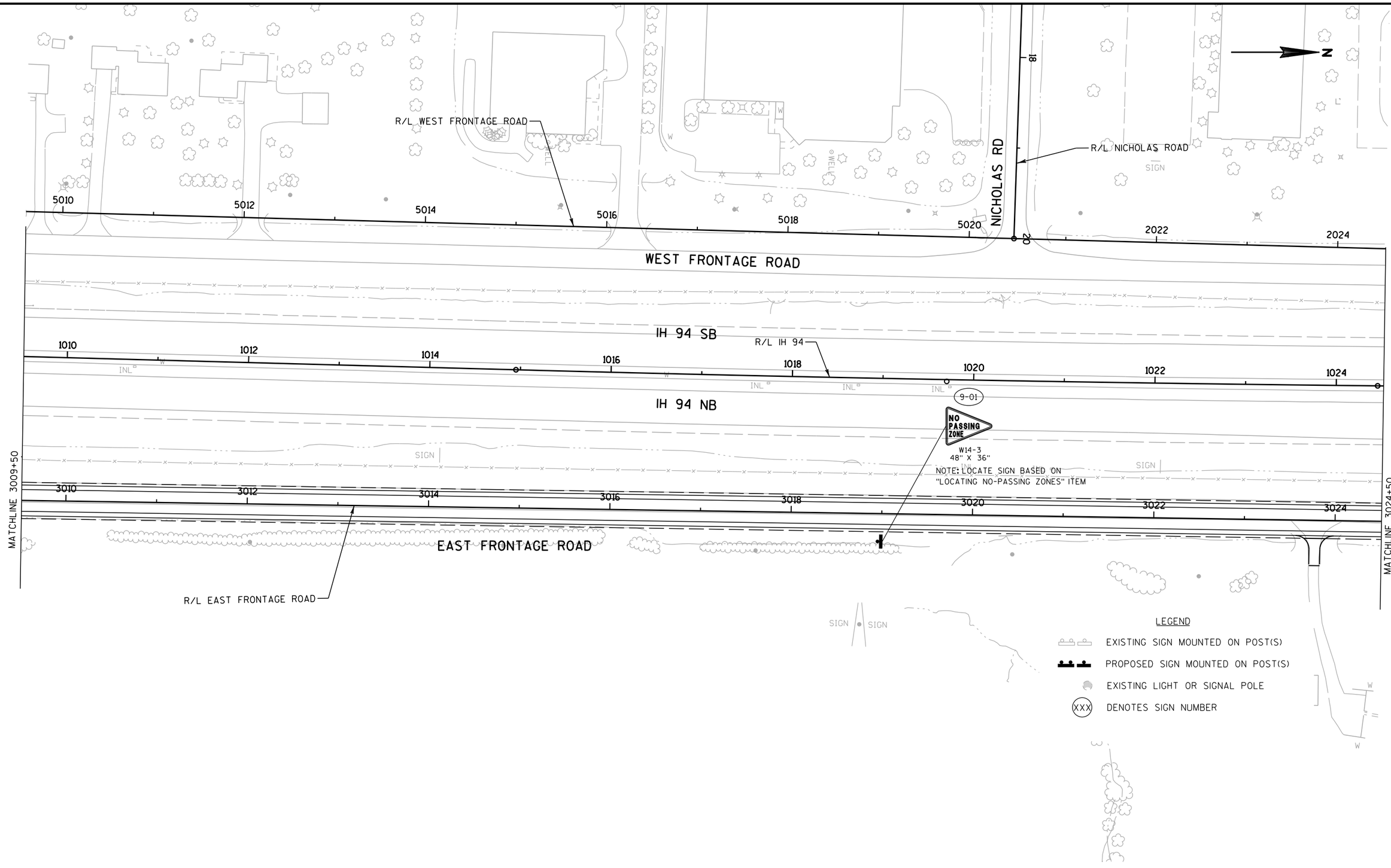
LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POST(S)
- EXISTING LIGHT OR SIGNAL POLE
- (XXX) DENOTES SIGN NUMBER

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	PERMANENT SIGNING EAST FRONTAGE ROAD	SHEET 152	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\023258_ps.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:100

2



2

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	PERMANENT SIGNING EAST FRONTAGE ROAD	SHEET 153	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\023259_ps.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:100

HOL

2

2

N

3 MILE RD

28

30

R/L 3 MILE ROAD

R/L WEST FRONTAGE ROAD

WEST FRONTAGE ROAD

2026 2028 2030 2032 2034 2036 2038 2040

R/L IH 94

IH 94 SB

1026 1028 1030 1032 1034 1036 1038

IH 94 NB

MATCHLINE 3024+50

3026 3028 3030 3032 3034 3036 3038

EAST FRONTAGE ROAD

R/L EAST FRONTAGE ROAD

10-01

SPEED LIMIT 35

W3-5
36" X 36"

10-02

NO PASSING ZONE

W14-3
48" X 36"

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

END PROJECT
I.D. 1030-11-77
STA 3031+00.00

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POST(S)
- EXISTING LIGHT OR SIGNAL POLE
- XXX DENOTES SIGN NUMBER

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	PERMANENT SIGNING EAST FRONTAGE ROAD	SHEET 154	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\023260_ps.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:100

2

2

N

11-01

W3-1
36" X 36"

11-02

JCT
COUNTY
C

M2-1
21" X 15"

M1-5A
24" X 24"

11-03

11-04

STOP

R1-1
36" X 36"

250'

EVANS LANE

11-07

11-08

W3-1
36" X 36"

SPEED LIMIT
25

AXLE WEIGHT LIMIT ONE AXLE 5 TONS ANY TWO AXLES MORE THAN 8' APART 10 TONS

11MO1

11MO2

W1-4
36" X 36"

11-10

40
M.P.H.

W13-1
24" X 24"

11-11

R/L EVANS LANE

11-09

SPEED LIMIT
55

R2-1
24" X 30"

BEGIN PROJECT
I.D. 1030-11-78
STA 4891+90.00

4890 4892 4894 4896 4898 4900 4902

WEST FRONTAGE ROAD

MATCHLINE 4904+00

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

NO PASSING ZONE

11-05

W14-3
48" X 36"

11-06

W1-7
48" X 24"

R/L IH 94

IH 94 SB

890 892 894 896 898 900 902

IH 94 NB

5896 5898 5900 5902 5904 5906

EAST FRONTAGE ROAD

R/L EAST FRONTAGE ROAD

CTH C

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON POST(S)

EXISTING LIGHT OR SIGNAL POLE

XXX DENOTES SIGN NUMBER

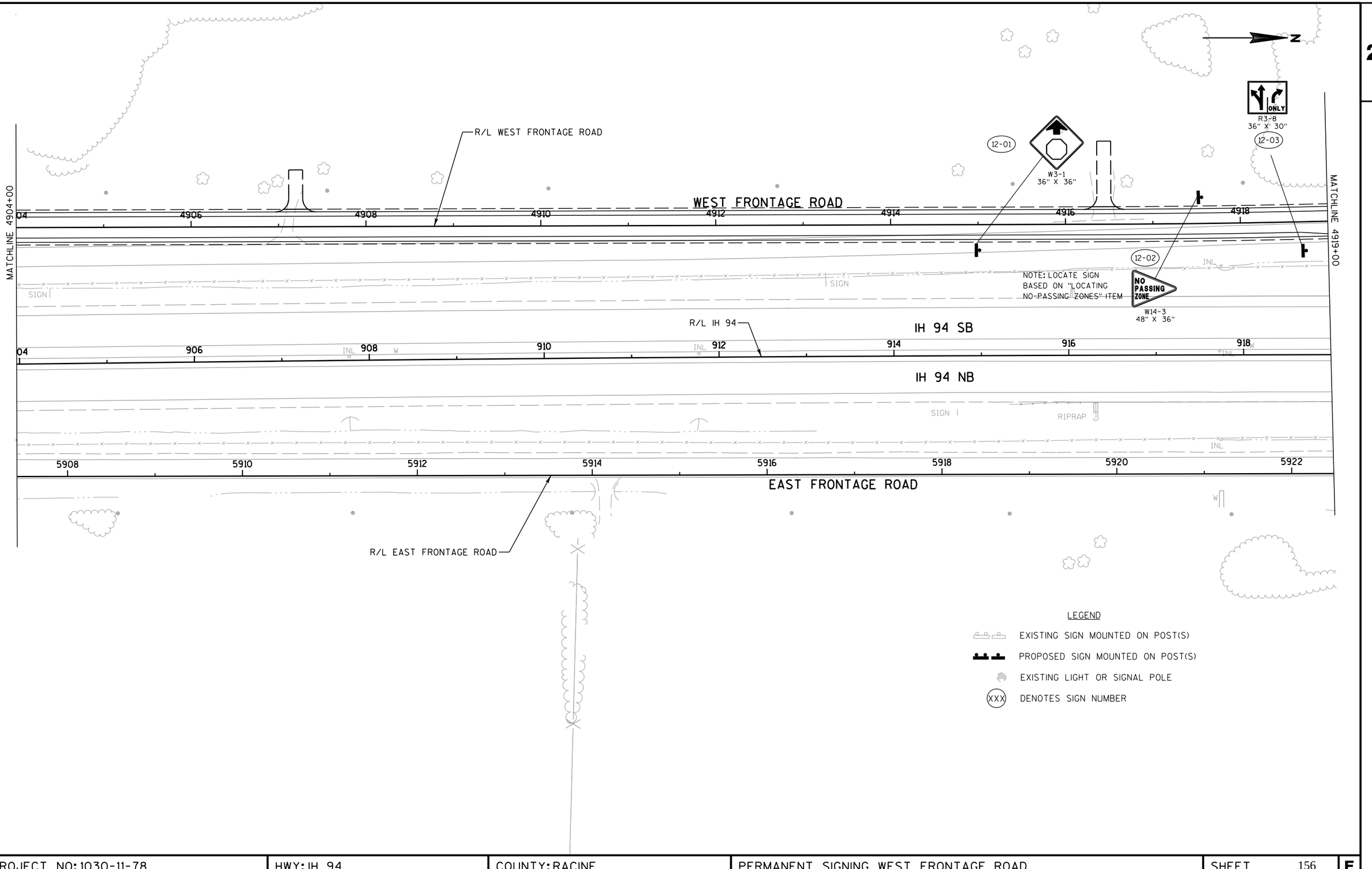
PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	PERMANENT SIGNING WEST FRONTAGE ROAD	SHEET 155	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\023261_ps.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:100

FSL

WISDOT/CADDS SHEET 42

2



LEGEND

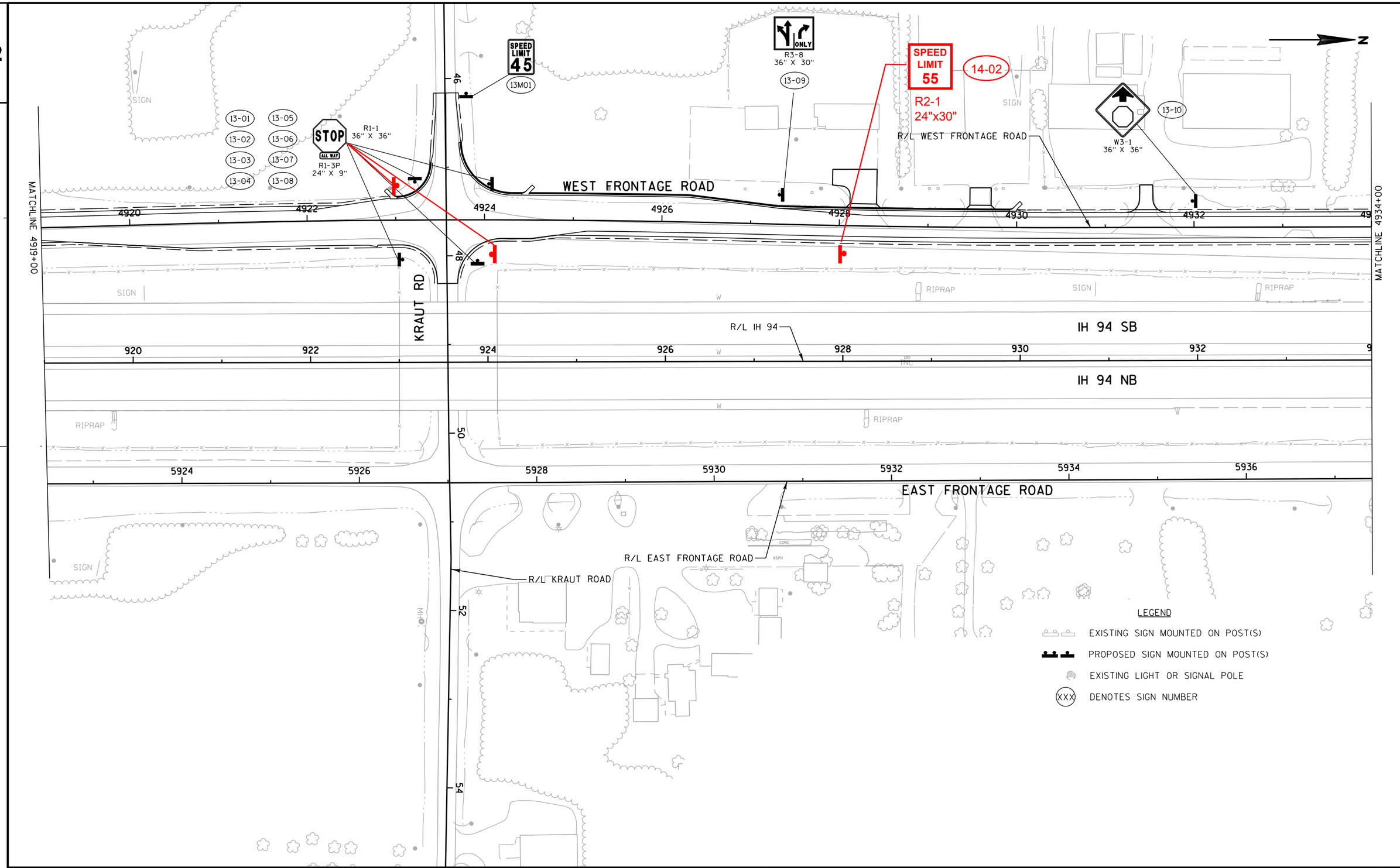
- EXISTING SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POST(S)
- EXISTING LIGHT OR SIGNAL POLE
- (XXX) DENOTES SIGN NUMBER

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	PERMANENT SIGNING WEST FRONTAGE ROAD	SHEET 156	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\023262_ps.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

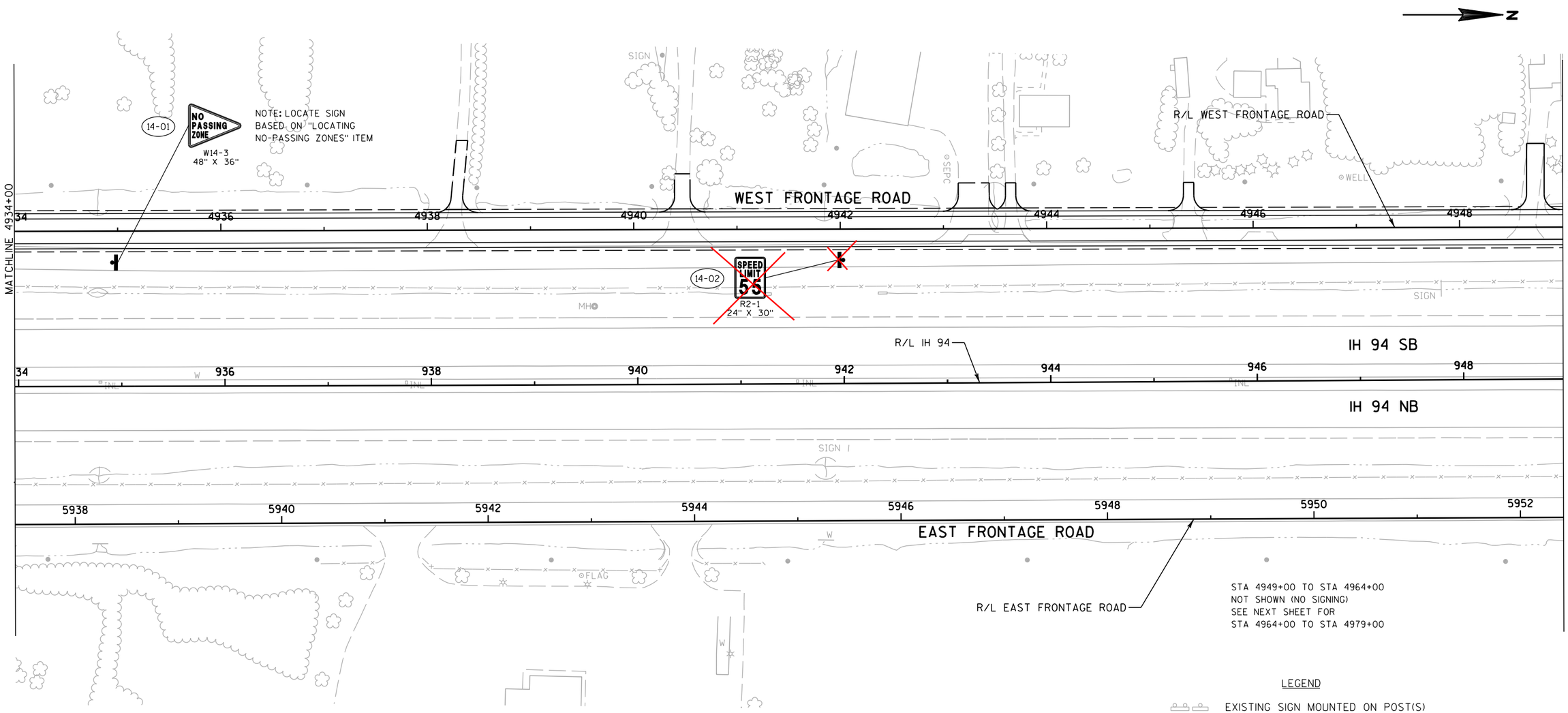
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PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	PERMANENT SIGNING WEST FRONTAGE ROAD	SHEET 157	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\023263_ps.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : | PLOT SCALE : 1:100

2



LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POST(S)
- EXISTING LIGHT OR SIGNAL POLE
- (XXX) DENOTES SIGN NUMBER

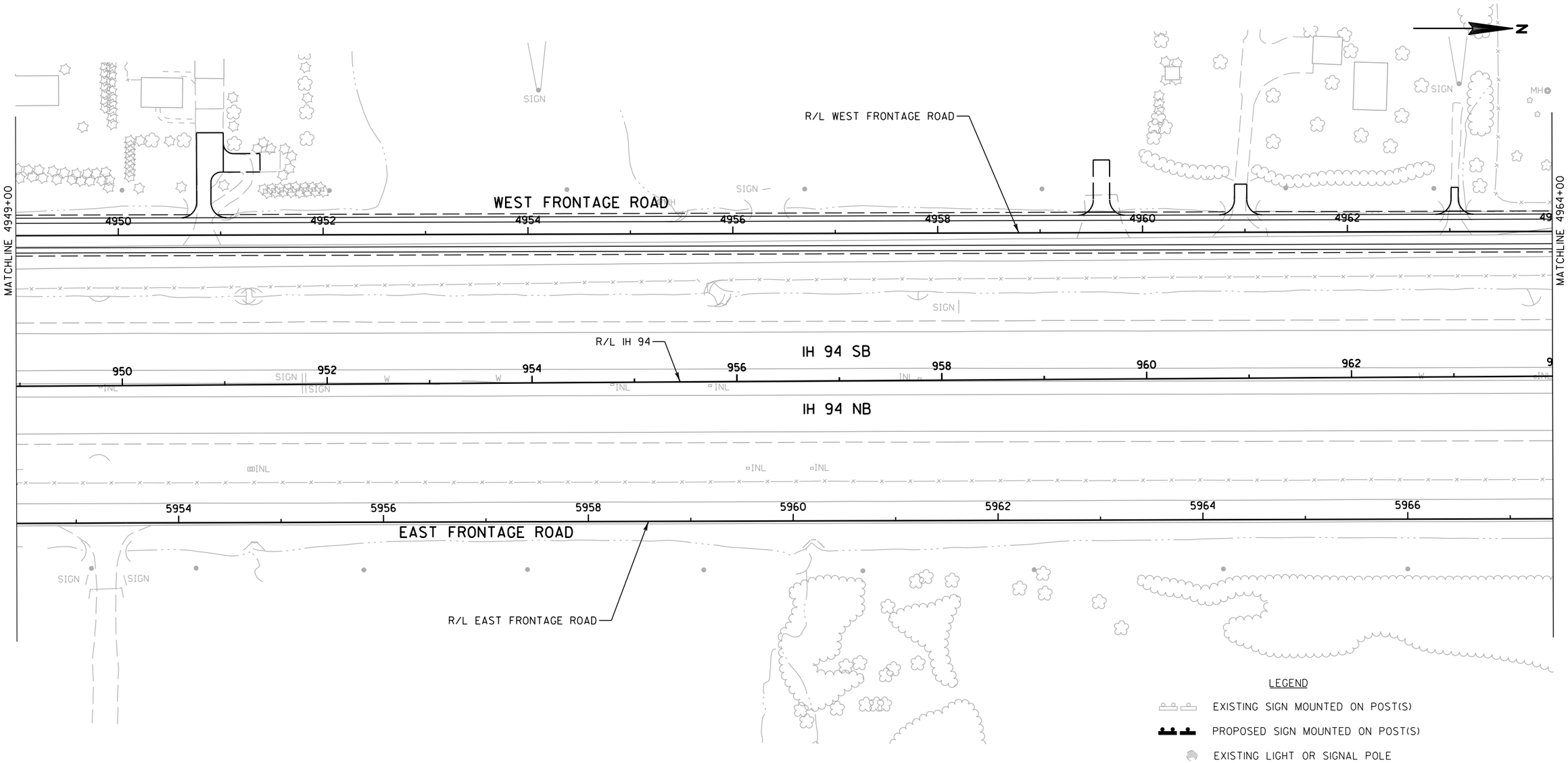
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PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	PERMANENT SIGNING WEST FRONTAGE ROAD	SHEET 158	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\023264_ps.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:100

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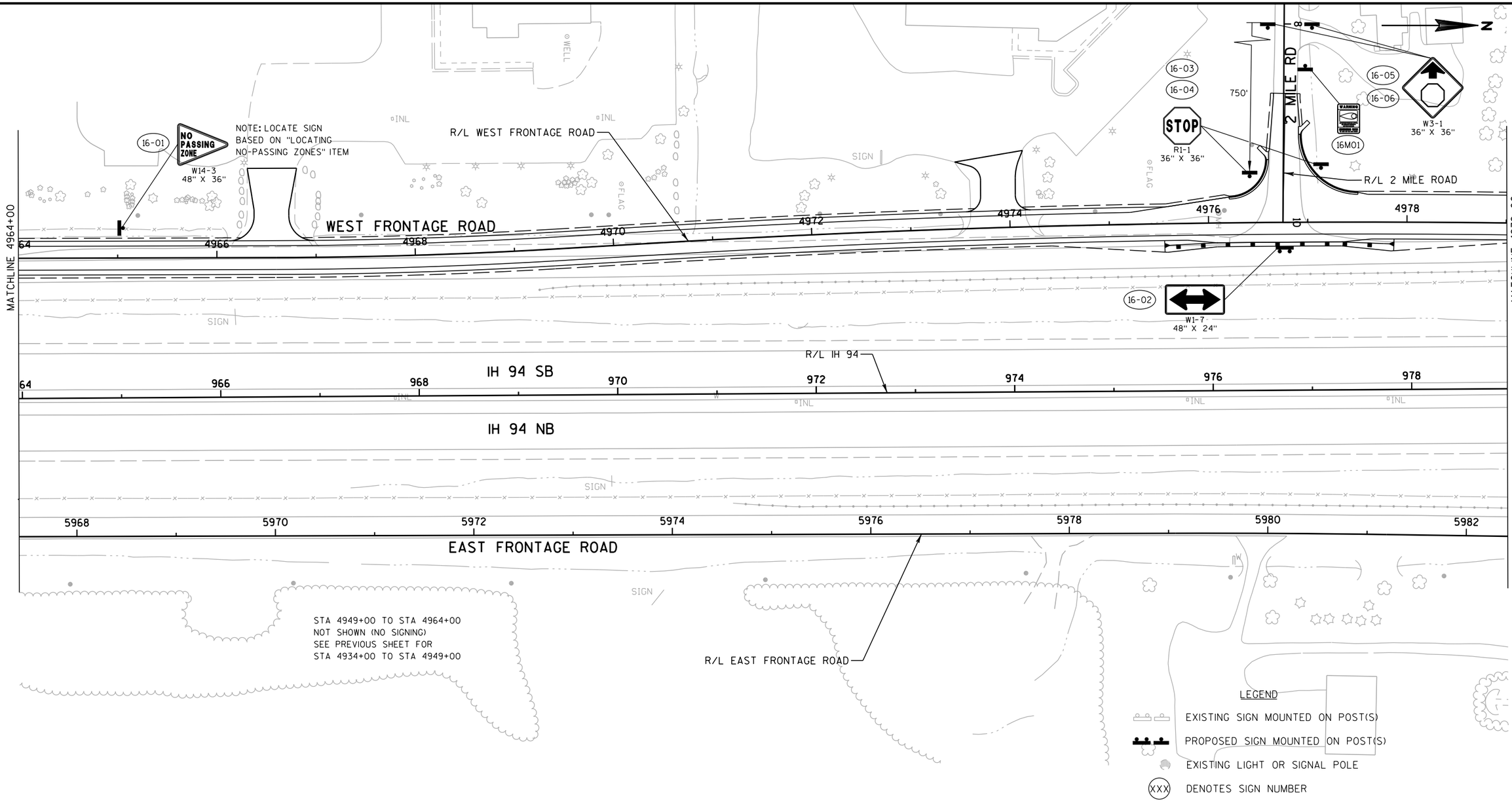
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PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	PERMANENT SIGNING WEST FRONTAGE ROAD	SHEET 159	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\023265_ps.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:100

2



PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	PERMANENT SIGNING WEST FRONTAGE ROAD	SHEET 160	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\023266_ps.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

2

2

N

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

17-01

NO PASSING ZONE

W14-3
48" X 36"

R/L WEST FRONTAGE ROAD
SIGN

WEST FRONTAGE ROAD

4980 4982 4984 4986 4988 4990 4992 4994

MATCHLINE 4979+00

MATCHLINE 4994+00

RIPRAP

R/L IH 94

IH 94 SB

980 982 984 986 988 990 992 994

IH 94 NB

INL

W

EAST FRONTAGE ROAD

5984 5986 5988 5990 5992 5994 5996

R/L EAST FRONTAGE ROAD

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POST(S)
- EXISTING LIGHT OR SIGNAL POLE
- (XXX) DENOTES SIGN NUMBER

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	PERMANENT SIGNING WEST FRONTAGE ROAD	SHEET 161	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\023267_ps.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:100

2

2

N

MATCHLINE 4994+00

MATCHLINE 5009+00

WEST FRONTAGE ROAD

R/L WEST FRONTAGE ROAD

18-02

W1-7
48" X 24"

WELL

4994 4996 4998 5000 5002 5004 5006 5008

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

NO PASSING ZONE

18-01

W14-3
48" X 36"

R/L IH 94

STOP

18-03

18-04

R1-1
36" X 36"

IH 94 SB

IH 94 NB

994 996 998 1000 1002 1004 1006 1008

INL

W

5998 6000 6002 6004 6006

EAST FRONTAGE ROAD

SIGN

GOLF RD

70

72

74

3004 3006 3008

R/L EAST FRONTAGE ROAD

R/L GOLF ROAD

LEGEND

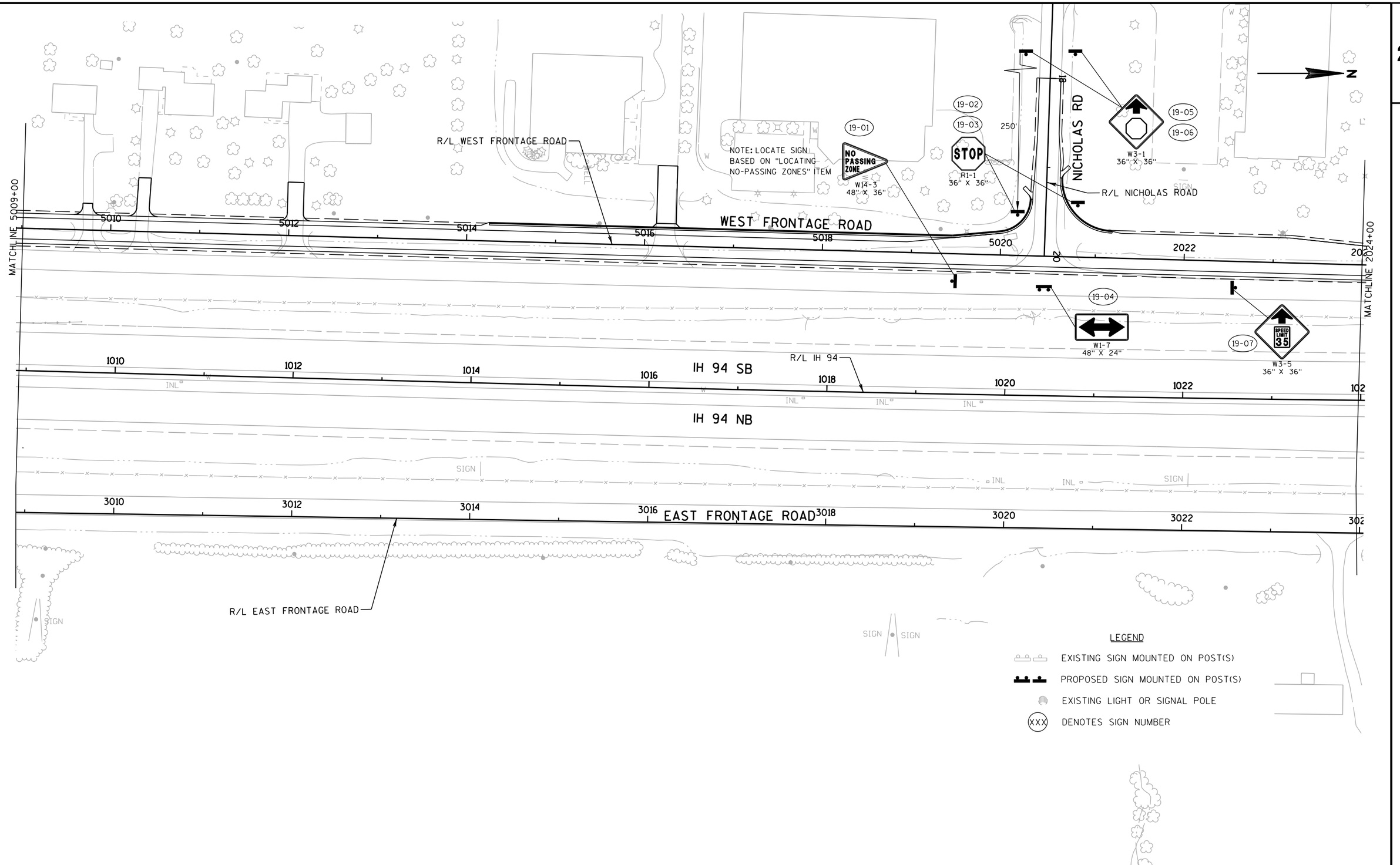
- EXISTING SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POST(S)
- EXISTING LIGHT OR SIGNAL POLE
- (XXX) DENOTES SIGN NUMBER

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	PERMANENT SIGNING WEST FRONTAGE ROAD	SHEET 162	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\023268_ps.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

2



PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	PERMANENT SIGNING WEST FRONTAGE ROAD	SHEET 163	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\023269_ps.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:100

2

2

MATCHLINE 2024+00

20-01 NO PASSING ZONE W14-3 48" X 36"

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

20-03 SPEED LIMIT 55 R2-1 24" X 30"

20-04 20-05 STOP R1-1 36" X 36"

400'

3 MILE RD

20-06 20-07 W3-1 36" X 36"

20M01 SPEED LIMIT 45

20M02 WEIGHT LIMIT CLASS B

20M03 TRUCKS

R/L 3 MILE ROAD

END PROJECT
I.D. 1030-11-78
STA 2030+25.00

R/L WEST FRONTAGE ROAD

WEST FRONTAGE ROAD

20-09 SPEED LIMIT 35 R2-1 24" X 30"

36"x48"

20-08 W1-7 48" X 24"

R/L IH 94

IH 94 SB

IH 94 NB

EAST FRONTAGE ROAD

R/L EAST FRONTAGE ROAD

N

LEGEND

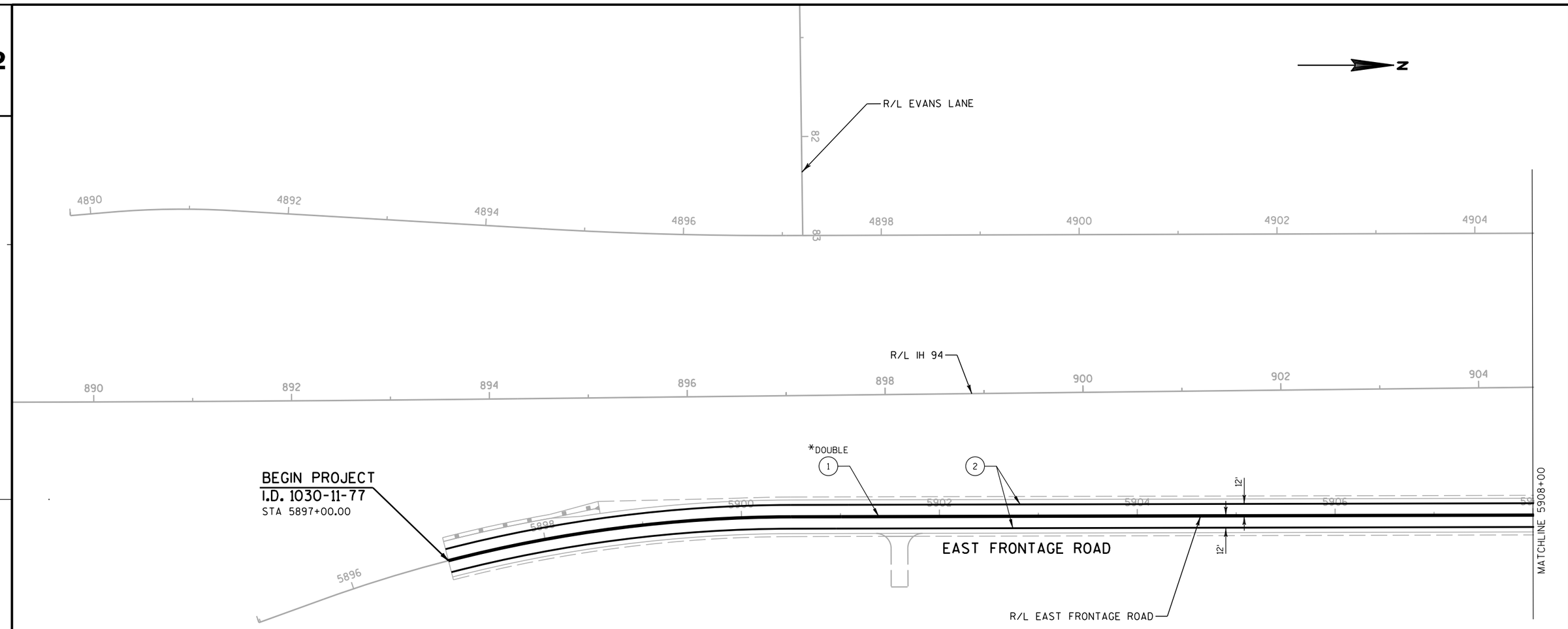
- EXISTING SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POST(S)
- EXISTING LIGHT OR SIGNAL POLE
- (XXX) DENOTES SIGN NUMBER

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	PERMANENT SIGNING WEST FRONTAGE ROAD	SHEET 164	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\023270_ps.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

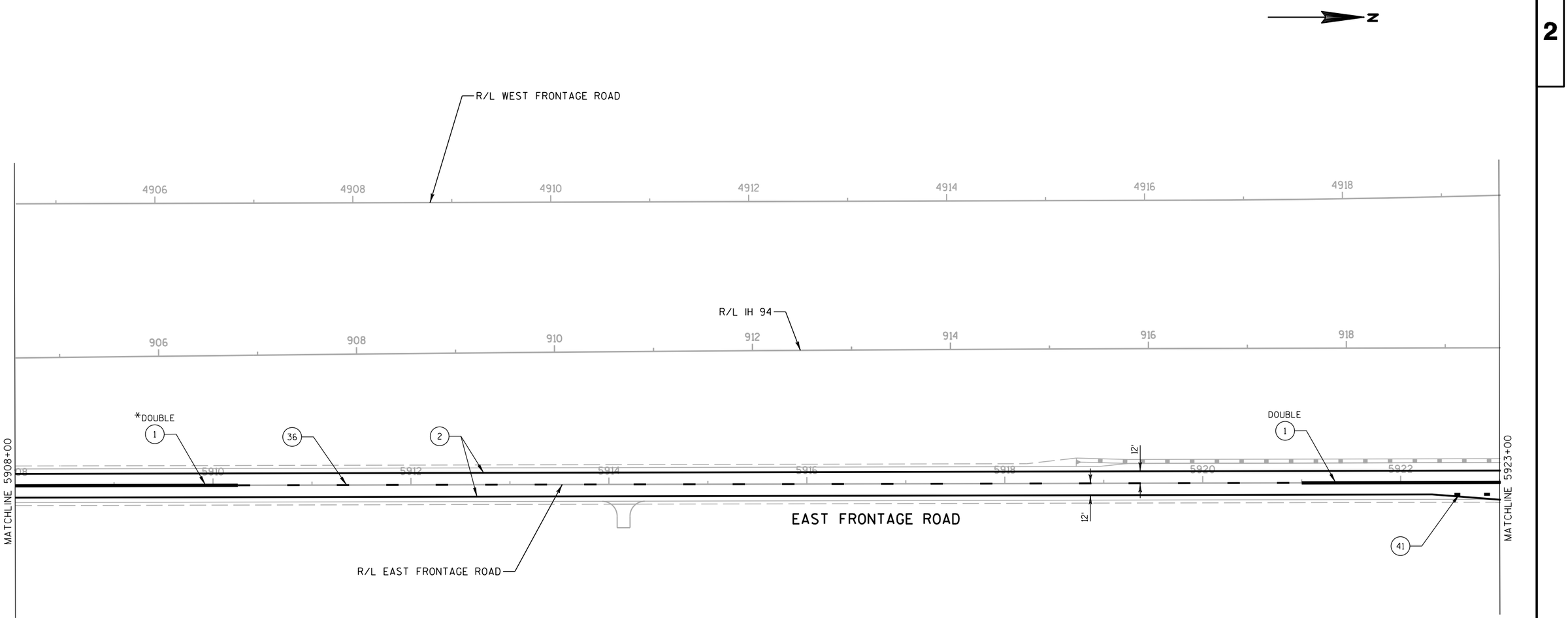
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* - LIMITS OF PAVEMENT MARKING EPOXY 4-INCH (YELLOW) WILL BE DETERMINED UNDER THE PAY ITEM "LOCATING NO-PASSING ZONES"

(1)	PAVEMENT MARKING EPOXY 4-INCH (YELLOW)	(41)	PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (3 FT LINE 9 FT SKIP)
(2)	PAVEMENT MARKING EPOXY 4-INCH (WHITE)	(63)	PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 2
(3)	PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE)	(67)	PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC WORDS
(31)	PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE)	(68)	PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC STOPLINE 18-INCH
(36)	PAVEMENT MARKING EPOXY 4-INCH (DASHED YELLOW)		

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	PAVEMENT MARKING EAST FRONTAGE ROAD	SHEET 165 **E**



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

1	PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
2	PAVEMENT MARKING EPOXY 4-INCH (WHITE)
3	PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE)
31	PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE)
36	PAVEMENT MARKING EPOXY 4-INCH (DASHED YELLOW)
41	PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (3 FT LINE 9 FT SKIP)
63	PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 2
67	PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC WORDS
68	PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC STOPLINE 18-INCH

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	PAVEMENT MARKING EAST FRONTAGE ROAD	SHEET 166	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\024502_PM.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:100

2

2

N

R/L WEST FRONTAGE ROAD

KRAUT RD

R/L IH 94

MATCH EXISTING
STA 49+75

DOUBLE

*DOUBLE

MATCHLINE 5923+00

MATCHLINE 5938+00

EAST FRONTAGE ROAD

R/L EAST FRONTAGE ROAD

MATCH EXISTING
STA 52+20

R/L KRAUT ROAD

4' CLEAR BETWEEN
INSIDE EDGES OF LINES

20' 8' 32' 8' 64' 8' 32' 8' 20' +75

4' CLEAR BETWEEN INSIDE EDGES OF LINES

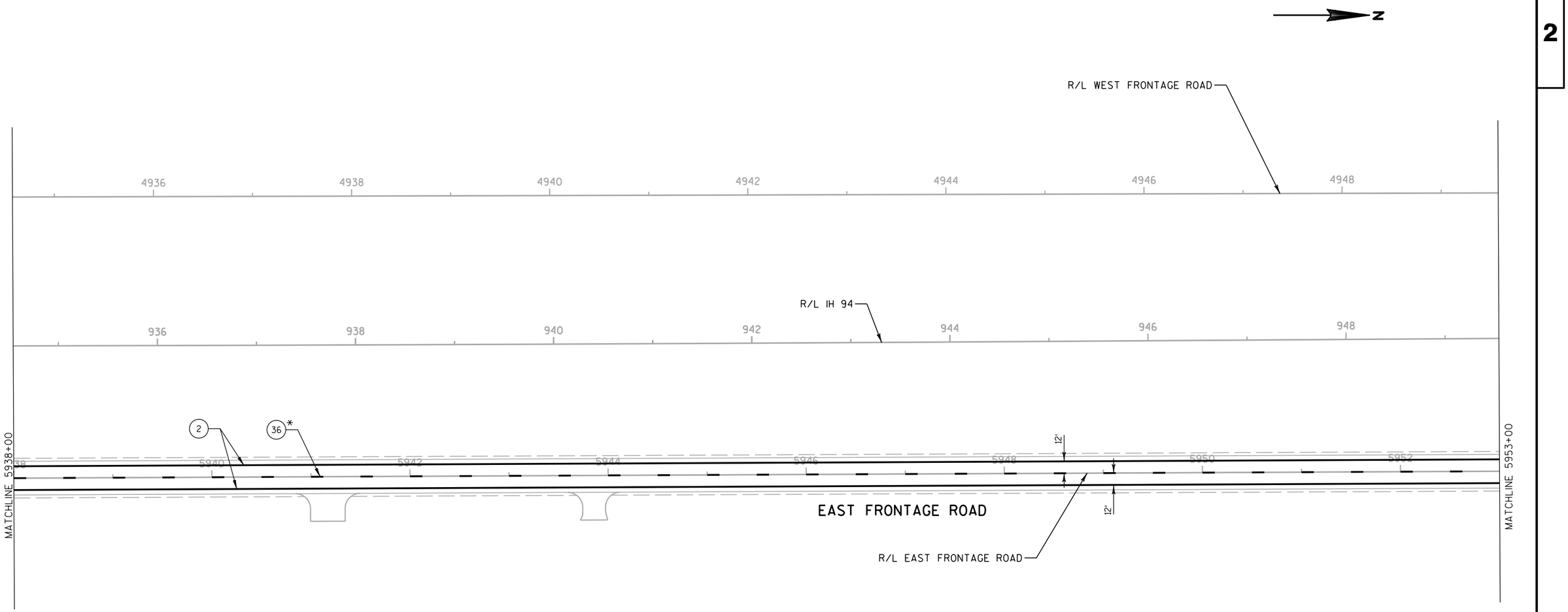
20' 8' 32' 8' 64' 8' 32' 8' 20' +28

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

1	PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
2	PAVEMENT MARKING EPOXY 4-INCH (WHITE)
3	PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE)
31	PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE)
36	PAVEMENT MARKING EPOXY 4-INCH (DASHED YELLOW)
41	PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (3 FT LINE 9 FT SKIP)
63	PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 2
67	PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC WORDS
68	PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC STOPLINE 18-INCH

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	PAVEMENT MARKING EAST FRONTAGE ROAD	SHEET 167	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\024503_PM.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:100



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

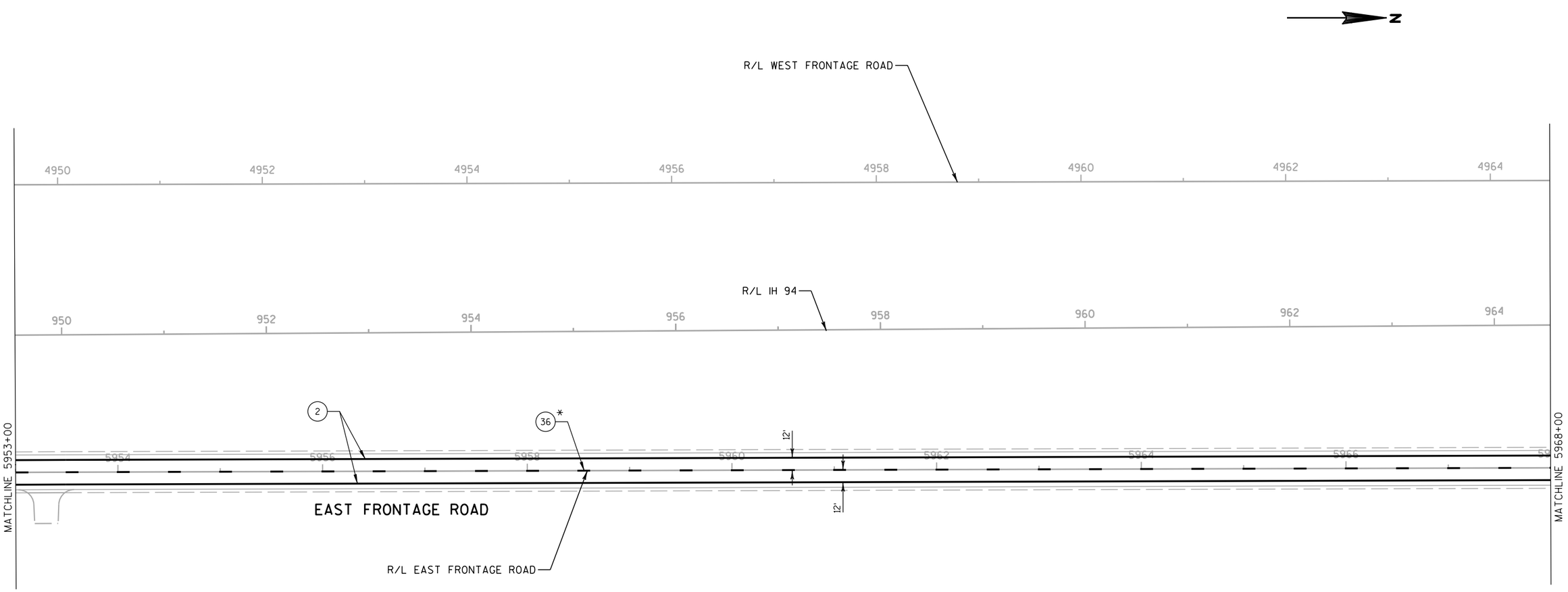
1	PAVEMENT MARKING EPOXY 4-INCH (YELLOW)	41	PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (3 FT LINE 9 FT SKIP)
2	PAVEMENT MARKING EPOXY 4-INCH (WHITE)	63	PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 2
3	PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE)	67	PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC WORDS
31	PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE)	68	PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC STOPLINE 18-INCH
36	PAVEMENT MARKING EPOXY 4-INCH (DASHED YELLOW)		

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	PAVEMENT MARKING EAST FRONTAGE ROAD	SHEET 168	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\024504_PM.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:100

2

2



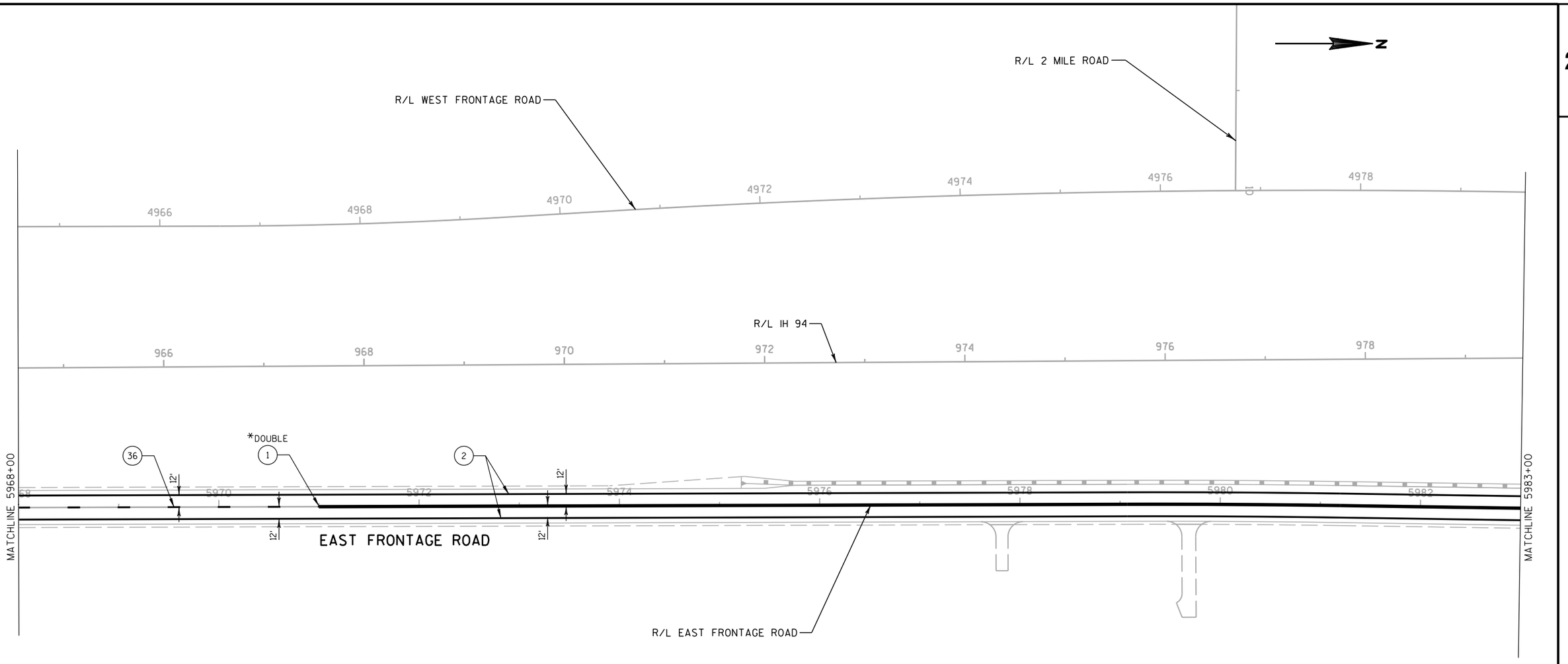
* - LIMITS OF PAVEMENT MARKING EPOXY 4-INCH (YELLOW) WILL BE DETERMINED UNDER THE PAY ITEM "LOCATING NO-PASSING ZONES"

(1)	PAVEMENT MARKING EPOXY 4-INCH (YELLOW)	(41)	PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (3 FT LINE 9 FT SKIP)
(2)	PAVEMENT MARKING EPOXY 4-INCH (WHITE)	(63)	PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 2
(3)	PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE)	(67)	PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC WORDS
(31)	PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE)	(68)	PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC STOPLINE 18-INCH
(36)	PAVEMENT MARKING EPOXY 4-INCH (DASHED YELLOW)		

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	PAVEMENT MARKING EAST FRONTAGE ROAD	SHEET 169 HSL	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\024505_PM.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:100

2

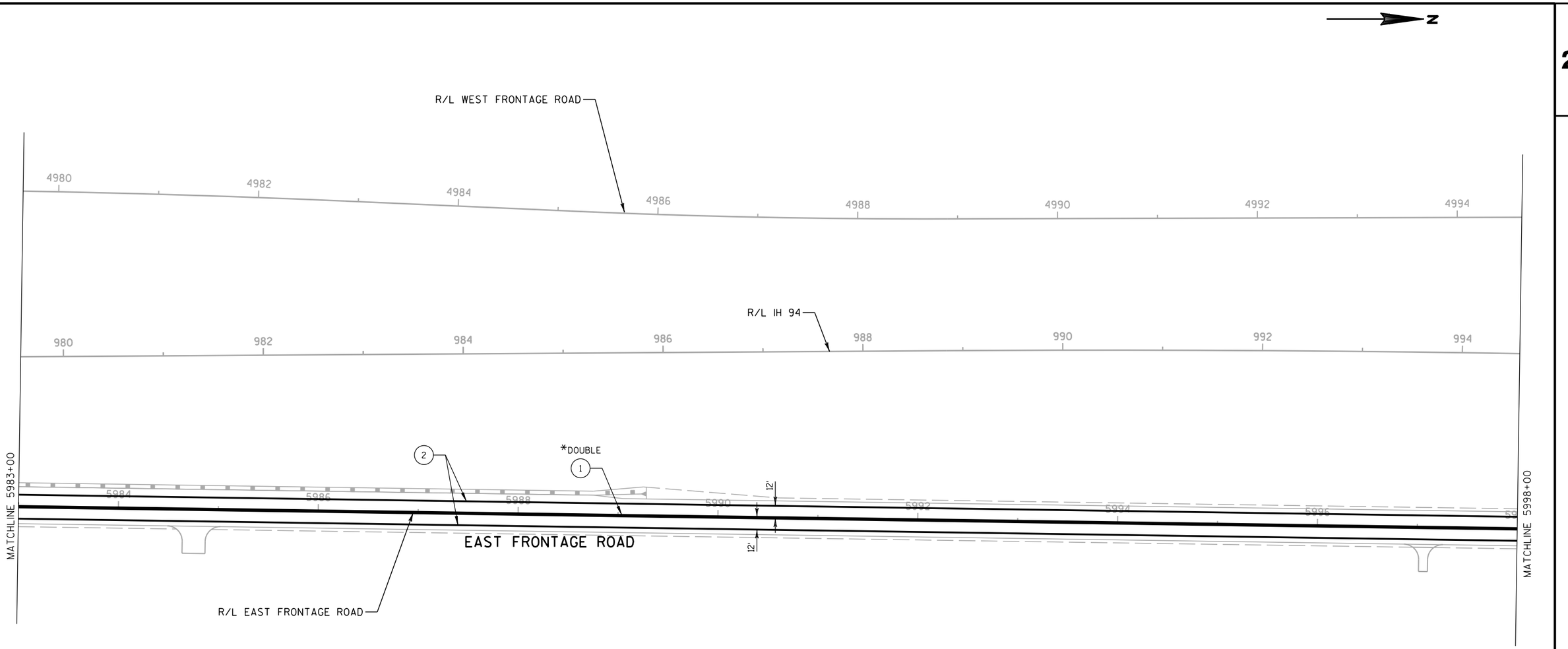


* - LIMITS OF PAVEMENT MARKING EPOXY 4-INCH (YELLOW) WILL BE DETERMINED UNDER THE PAY ITEM "LOCATING NO-PASSING ZONES"

1	PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
2	PAVEMENT MARKING EPOXY 4-INCH (WHITE)
3	PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE)
31	PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE)
36	PAVEMENT MARKING EPOXY 4-INCH (DASHED YELLOW)
41	PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (3 FT LINE 9 FT SKIP)
63	PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 2
67	PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC WORDS
68	PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC STOPLINE 18-INCH

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	PAVEMENT MARKING EAST FRONTAGE ROAD	SHEET 170 HSL	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\024506_PM.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:100



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

(1)	PAVEMENT MARKING EPOXY 4-INCH (YELLOW)	(41)	PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (3 FT LINE 9 FT SKIP)
(2)	PAVEMENT MARKING EPOXY 4-INCH (WHITE)	(63)	PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 2
(3)	PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE)	(67)	PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC WORDS
(31)	PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE)	(68)	PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC STOPLINE 18-INCH
(36)	PAVEMENT MARKING EPOXY 4-INCH (DASHED YELLOW)		

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	PAVEMENT MARKING EAST FRONTAGE ROAD	SHEET 171	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\024507_PM.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:100

2

N

R/L WEST FRONTAGE ROAD

4996 4998 5000 5002 5004 5006 5008

R/L IH 94

996 998 1000 1002 1004 1006 1008

MATCHLINE 5998+00

*DOUBLE (1)

(2) (41) (31)

12' 12'

5998 6000 6002 6004 6006

+17 +67 +67 +85 +34

4' CLEAR BETWEEN
INSIDE EDGES OF LINES

MATCH EXISTING
STA 69+73

DOUBLE (1)

68

+44

R/L GOLD ROAD

DOUBLE (1)

(2)

MATCH EXISTING
STA 72+00

GOLF RD

DOUBLE (31) (1)

12' 12'

+69 +70

4' CLEAR BETWEEN
INSIDE EDOES OF LINES

(41) (2)

3006 3008

+70 +50 +50 +18

12' 12'

EAST FRONTAGE ROAD

R/L EAST FRONTAGE ROAD

MATCHLINE 3009+50

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

(2) PAVEMENT MARKING EPOXY 4-INCH (WHITE)

(3) PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE)

(31) PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE)

(36) PAVEMENT MARKING EPOXY 4-INCH (DASHED YELLOW)

(41) PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (3 FT LINE 9 FT SKIP)

(63) PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 2

(67) PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC WORDS

(68) PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC STOPLINE 18-INCH

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

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	PAVEMENT MARKING EAST FRONTAGE ROAD	SHEET 172	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\024508_PM.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:100

2

2

N

R/L WEST FRONTAGE ROAD

R/L NICHOLAS ROAD

18

20

5010 5012 5014 5016 5018 5020 2022 2024

R/L IH 94

1010 1012 1014 1016 1018 1020 1022 1024

MATCHLINE 3009+50

3010 3012 3014 3016 3018 3020 3022 3024

12'

12'

12'

2

*DOUBLE

1

36

EAST FRONTAGE ROAD

R/L EAST FRONTAGE ROAD

MATCHLINE 3024+50

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

1	PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
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67	PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC WORDS
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PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	PAVEMENT MARKING EAST FRONTAGE ROAD	SHEET 173 HOL	E

2

2

N

28

30

R/L 3 MILE ROAD

R/L WEST FRONTAGE ROAD

2026 2028 2030 2032 2034 2036 2038 2040

R/L IH 94

1026 1028 1030 1032 1034 1036 1038

MATCHLINE 3024+50

36 2 *DOUBLE 1

12' 12' 12' 12'

3026 3028 3030

EAST FRONTAGE ROAD

END PROJECT
I.D. 1030-11-77
STA 3031+00.00

3032 3034 3036 3038

R/L EAST FRONTAGE ROAD

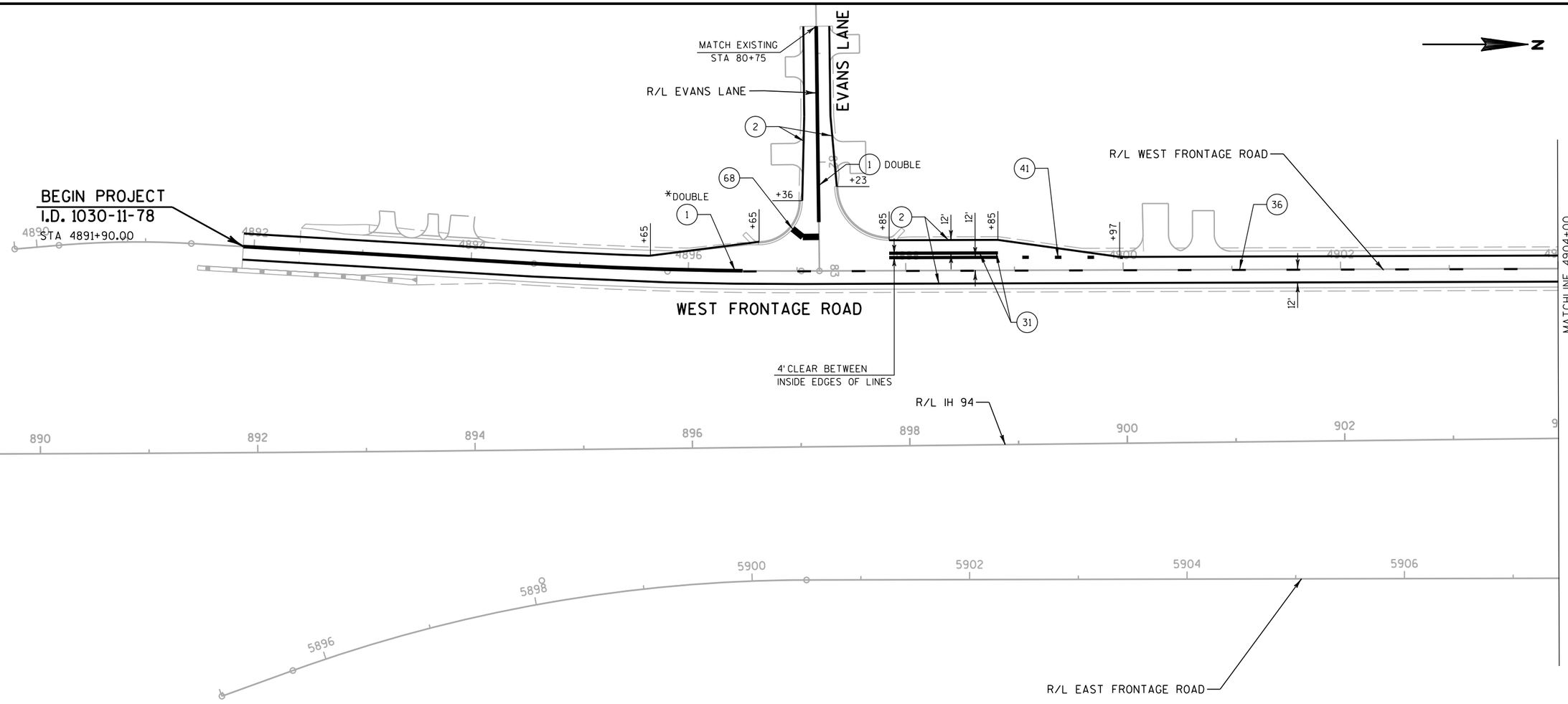
* - LIMITS OF PAVEMENT MARKING EPOXY 4-INCH (YELLOW) WILL BE DETERMINED UNDER THE PAY ITEM "LOCATING NO-PASSING ZONES"

1	PAVEMENT MARKING EPOXY 4-INCH (YELLOW)	41	PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (3 FT LINE 9 FT SKIP)
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3	PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE)	67	PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC WORDS
31	PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE)	68	PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC STOPLINE 18-INCH
36	PAVEMENT MARKING EPOXY 4-INCH (DASHED YELLOW)		

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	PAVEMENT MARKING EAST FRONTAGE ROAD	SHEET 174	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\024510_PM.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:100

10301177-00008RDAPERM



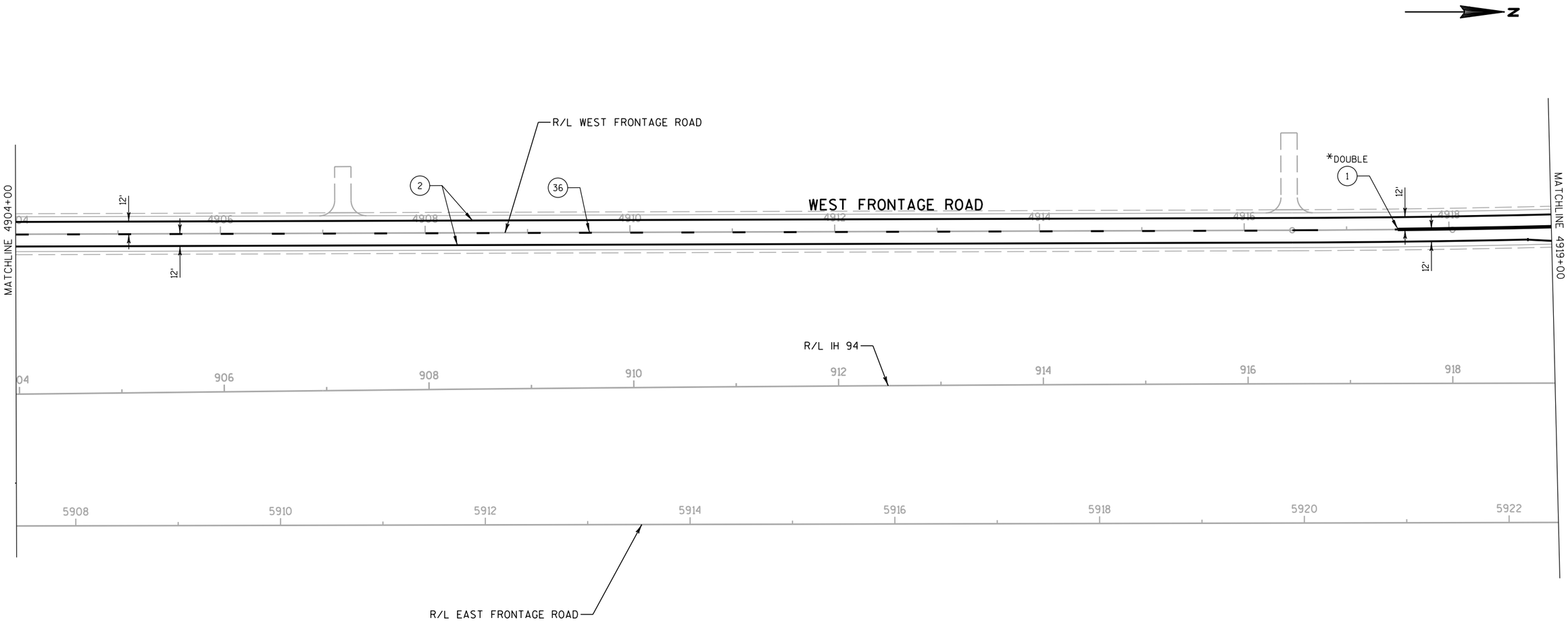
* - LIMITS OF PAVEMENT MARKING EPOXY 4-INCH (YELLOW) WILL BE DETERMINED UNDER THE PAY ITEM "LOCATING NO-PASSING ZONES"

(1)	PAVEMENT MARKING EPOXY 4-INCH (YELLOW)	(41)	PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (3 FT LINE 9 FT SKIP)
(2)	PAVEMENT MARKING EPOXY 4-INCH (WHITE)	(63)	PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 2
(3)	PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE)	(67)	PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC WORDS
(31)	PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE)	(68)	PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC STOPLINE 18-INCH
(36)	PAVEMENT MARKING EPOXY 4-INCH (DASHED YELLOW)		

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	PAVEMENT MARKING WEST FRONTAGE ROAD	SHEET 175	E

2

2

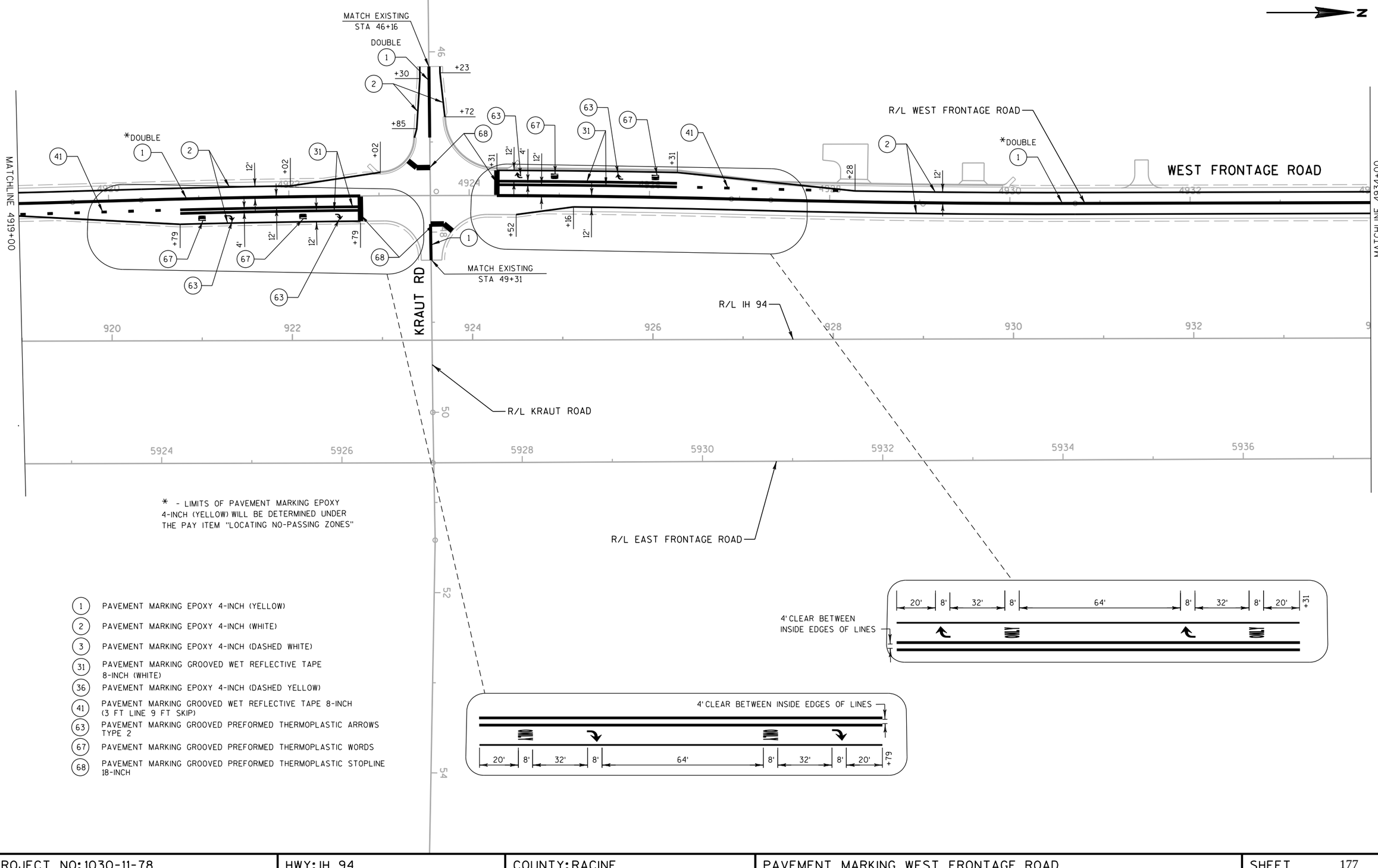


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PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	PAVEMENT MARKING WEST FRONTAGE ROAD	SHEET 176	E

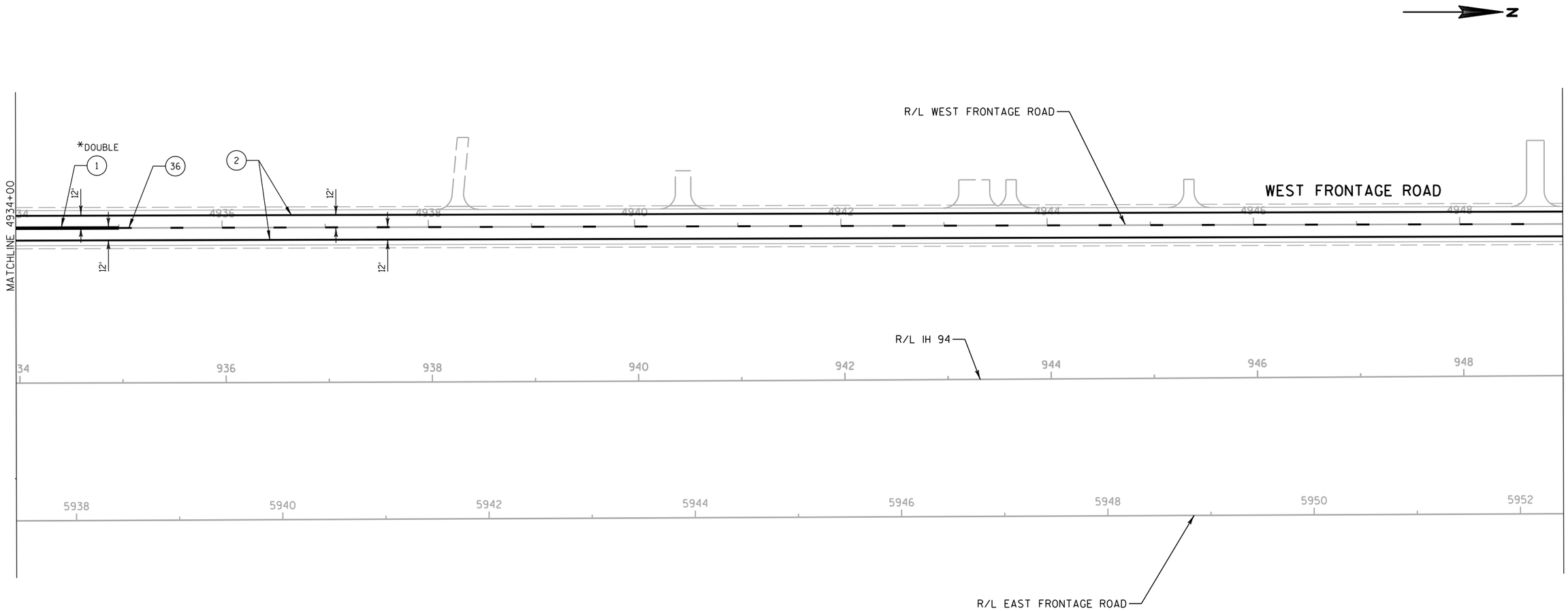
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PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	PAVEMENT MARKING WEST FRONTAGE ROAD	SHEET 177	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\024513_PM.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:100

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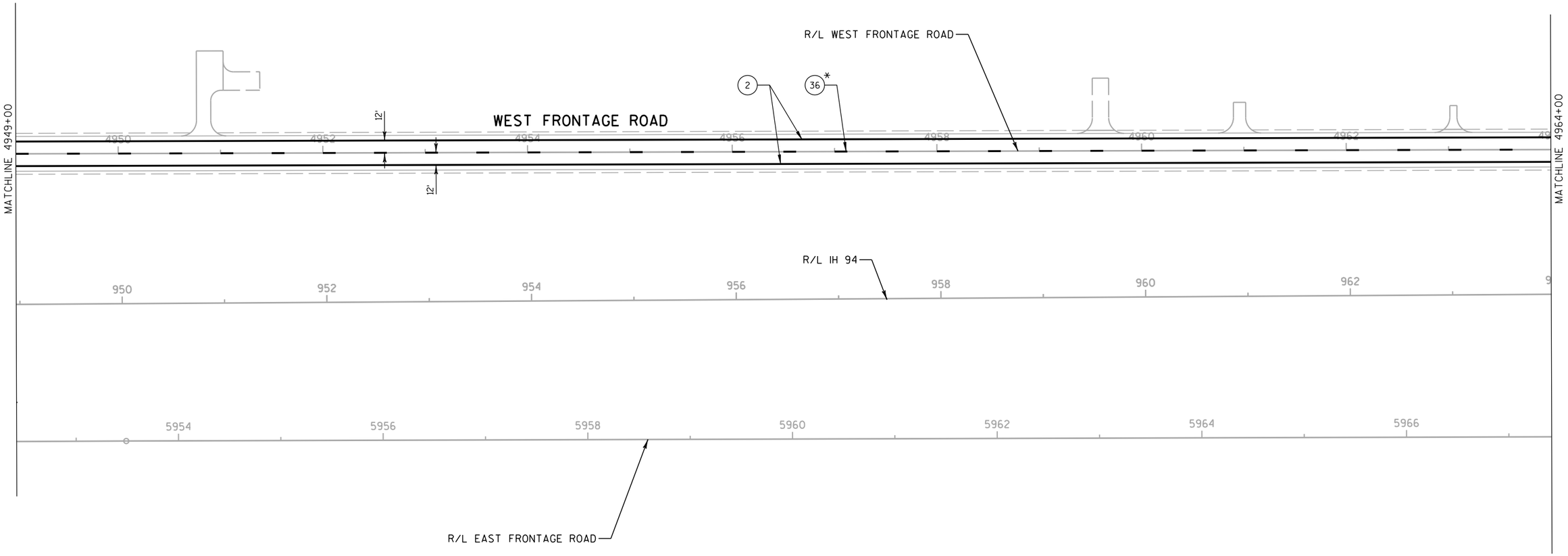
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1	PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
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36	PAVEMENT MARKING EPOXY 4-INCH (DASHED YELLOW)
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67	PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC WORDS
68	PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC STOPLINE 18-INCH

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	PAVEMENT MARKING WEST FRONTAGE ROAD	SHEET 178	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\024514_PM.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:100

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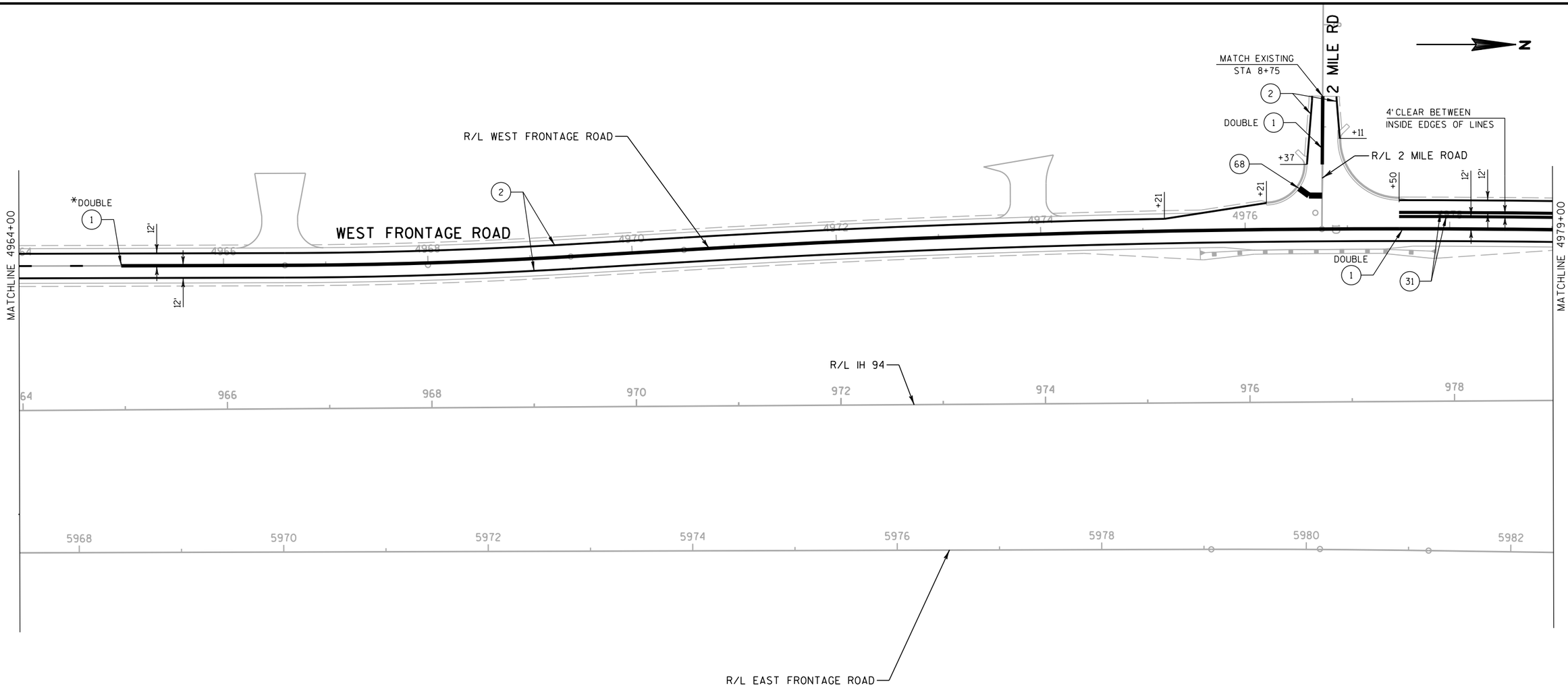
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PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	PAVEMENT MARKING WEST FRONTAGE ROAD	SHEET 179 HSL	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\024515_PM.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:100

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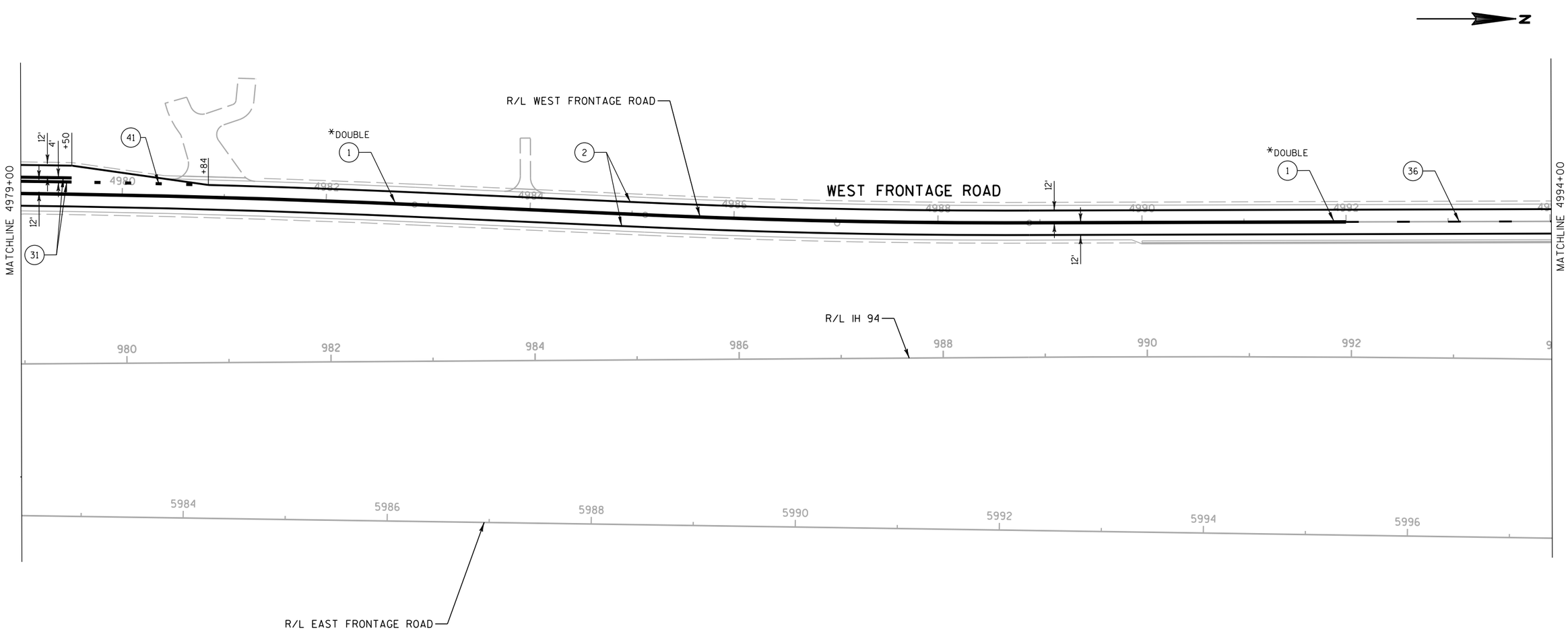
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PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	PAVEMENT MARKING WEST FRONTAGE ROAD	SHEET 180	E

2

2



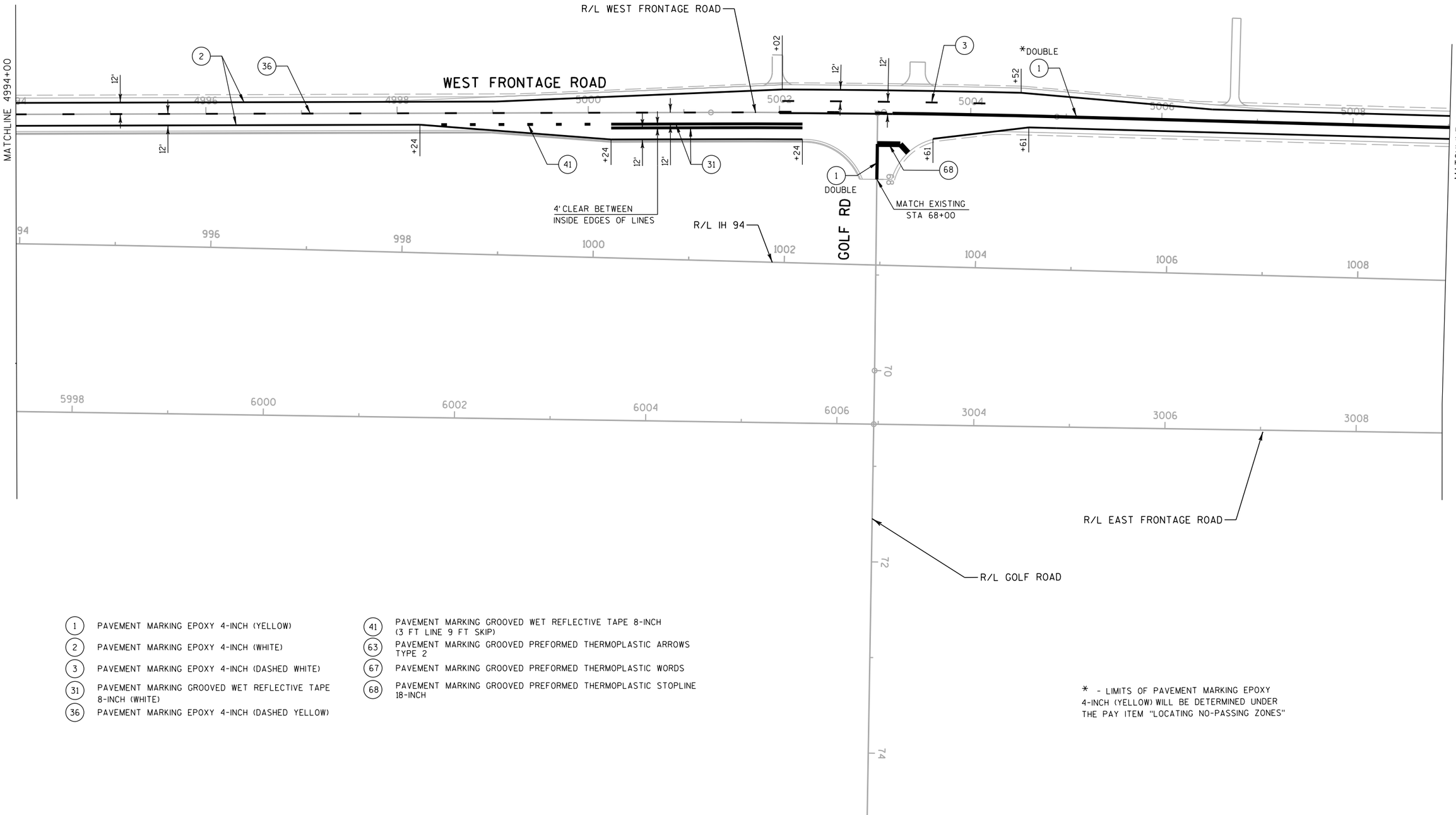
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PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	PAVEMENT MARKING WEST FRONTAGE ROAD	SHEET 181	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\024517_PM.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:100

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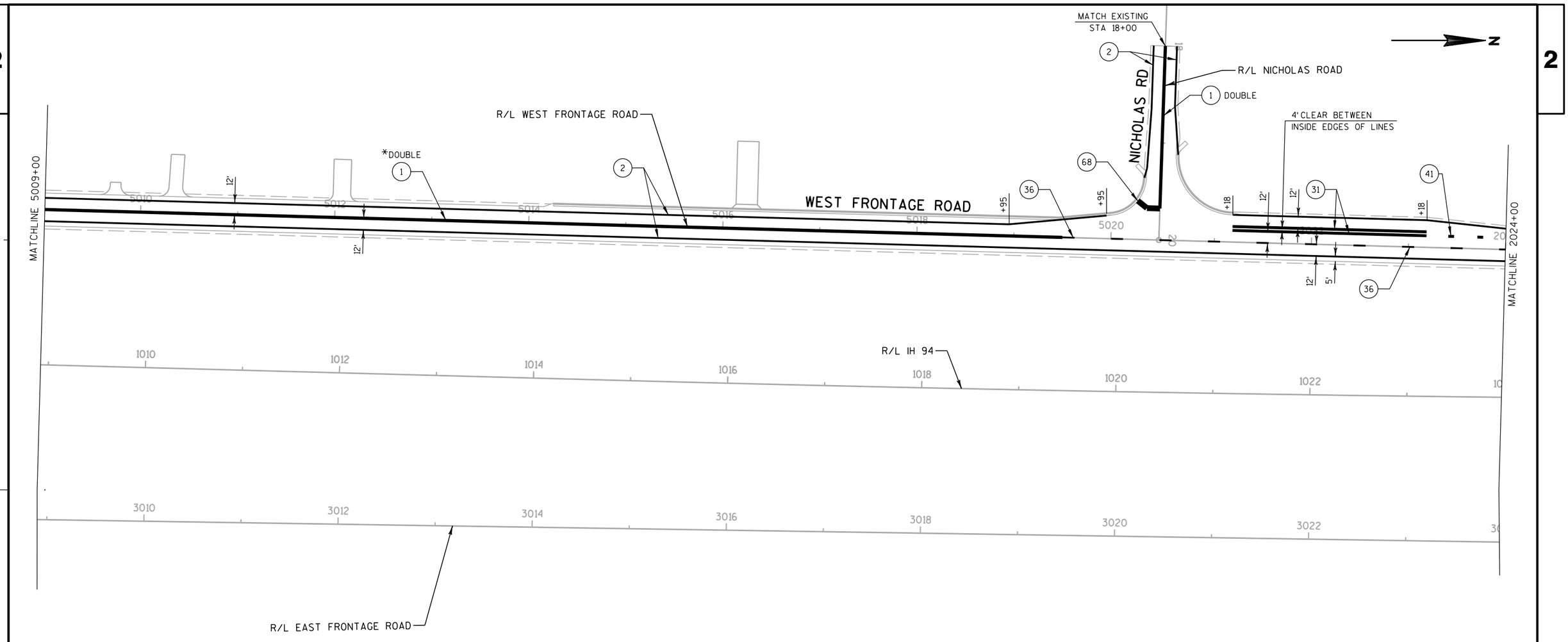


(1)	PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
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PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	PAVEMENT MARKING WEST FRONTAGE ROAD	SHEET 182	E

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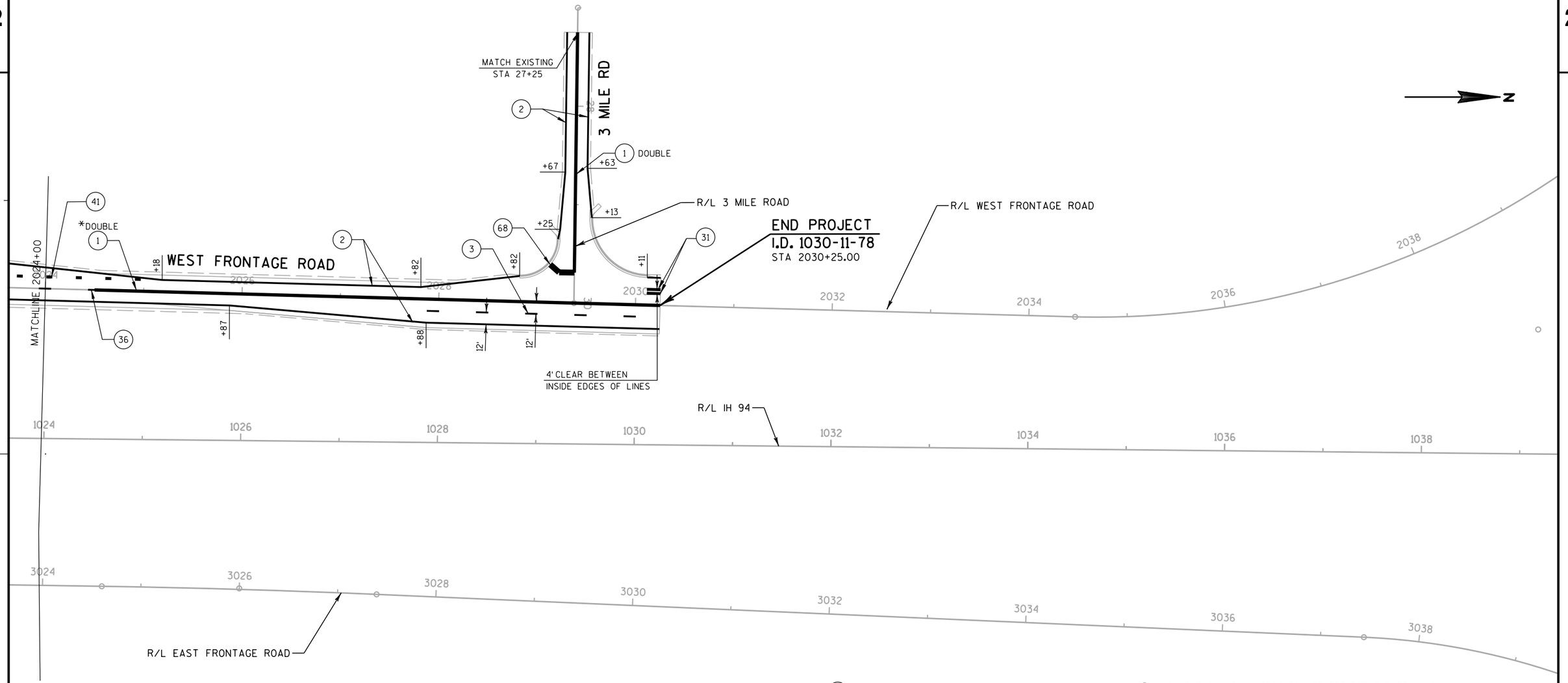
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PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	PAVEMENT MARKING WEST FRONTAGE ROAD	SHEET 183	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\024519_PM.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:100

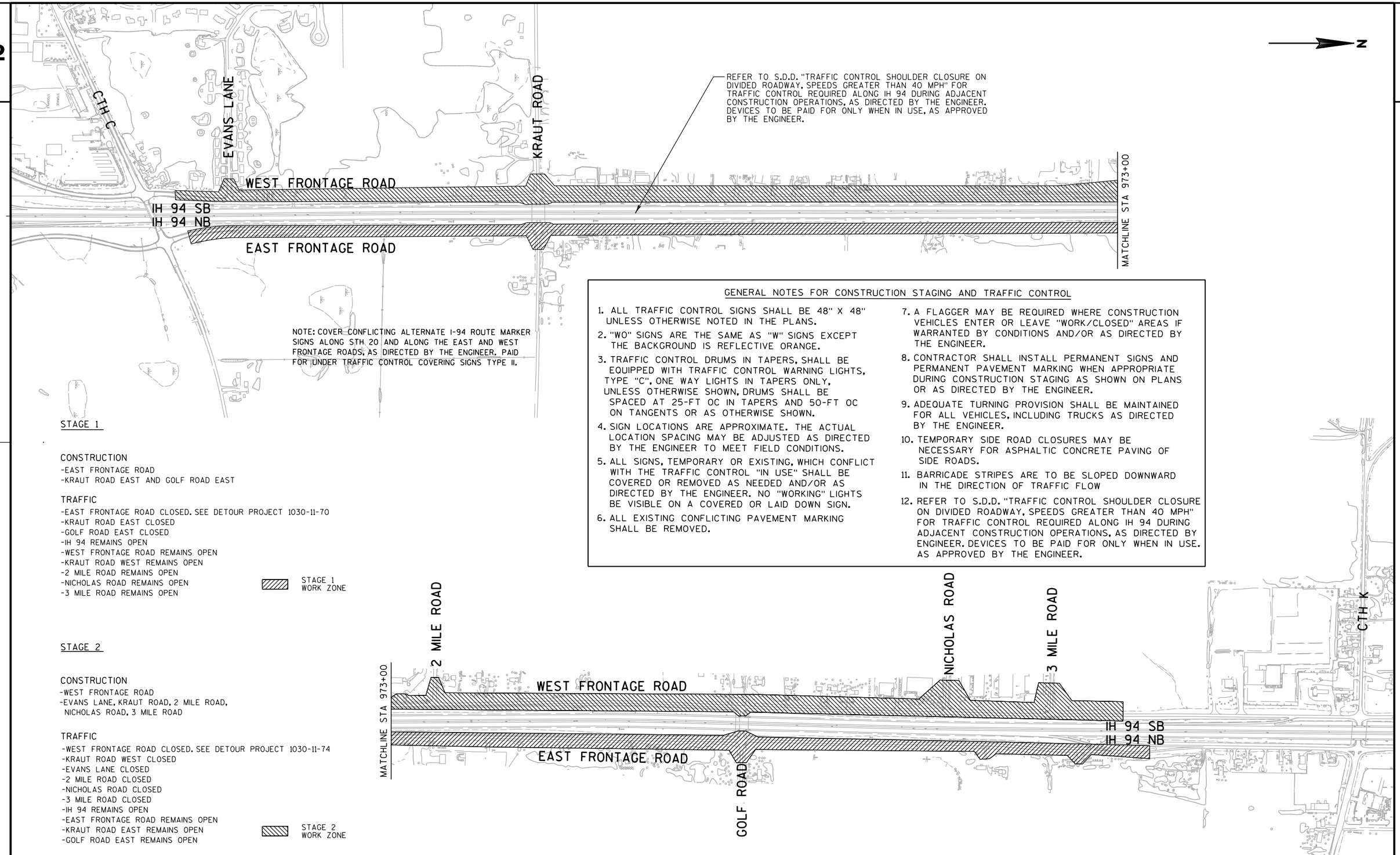
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PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	PAVEMENT MARKING WEST FRONTAGE ROAD	SHEET 184	E



GENERAL NOTES FOR CONSTRUCTION STAGING AND TRAFFIC CONTROL

1. ALL TRAFFIC CONTROL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED IN THE PLANS.
2. "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS REFLECTIVE ORANGE.
3. TRAFFIC CONTROL DRUMS IN TAPERS, SHALL BE EQUIPPED WITH TRAFFIC CONTROL WARNING LIGHTS, TYPE "C", ONE WAY LIGHTS IN TAPERS ONLY, UNLESS OTHERWISE SHOWN, DRUMS SHALL BE SPACED AT 25-FT OC IN TAPERS AND 50-FT OC ON TANGENTS OR AS OTHERWISE SHOWN.
4. SIGN LOCATIONS ARE APPROXIMATE. THE ACTUAL LOCATION SPACING MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER TO MEET FIELD CONDITIONS.
5. ALL SIGNS, TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE COVERED OR REMOVED AS NEEDED AND/OR AS DIRECTED BY THE ENGINEER. NO "WORKING" LIGHTS BE VISIBLE ON A COVERED OR LAID DOWN SIGN.
6. ALL EXISTING CONFLICTING PAVEMENT MARKING SHALL BE REMOVED.
7. A FLAGGER MAY BE REQUIRED WHERE CONSTRUCTION VEHICLES ENTER OR LEAVE "WORK/CLOSED" AREAS IF WARRANTED BY CONDITIONS AND/OR AS DIRECTED BY THE ENGINEER.
8. CONTRACTOR SHALL INSTALL PERMANENT SIGNS AND PERMANENT PAVEMENT MARKING WHEN APPROPRIATE DURING CONSTRUCTION STAGING AS SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER.
9. ADEQUATE TURNING PROVISION SHALL BE MAINTAINED FOR ALL VEHICLES, INCLUDING TRUCKS AS DIRECTED BY THE ENGINEER.
10. TEMPORARY SIDE ROAD CLOSURES MAY BE NECESSARY FOR ASPHALTIC CONCRETE PAVING OF SIDE ROADS.
11. BARRICADE STRIPES ARE TO BE SLOPED DOWNWARD IN THE DIRECTION OF TRAFFIC FLOW
12. REFER TO S.D.D. "TRAFFIC CONTROL SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH" FOR TRAFFIC CONTROL REQUIRED ALONG IH 94 DURING ADJACENT CONSTRUCTION OPERATIONS, AS DIRECTED BY ENGINEER. DEVICES TO BE PAID FOR ONLY WHEN IN USE. AS APPROVED BY THE ENGINEER.

STAGE 1

CONSTRUCTION
- -EAST FRONTAGE ROAD
- -KRAUT ROAD EAST AND GOLF ROAD EAST

TRAFFIC
- -EAST FRONTAGE ROAD CLOSED. SEE DETOUR PROJECT 1030-11-70
- -KRAUT ROAD EAST CLOSED
- -GOLF ROAD EAST CLOSED
- -IH 94 REMAINS OPEN
- -WEST FRONTAGE ROAD REMAINS OPEN
- -KRAUT ROAD WEST REMAINS OPEN
- -2 MILE ROAD REMAINS OPEN
- -NICHOLAS ROAD REMAINS OPEN
- -3 MILE ROAD REMAINS OPEN

STAGE 1 WORK ZONE

STAGE 2

CONSTRUCTION
- -WEST FRONTAGE ROAD
- -EVANS LANE, KRAUT ROAD, 2 MILE ROAD, NICHOLAS ROAD, 3 MILE ROAD

TRAFFIC
- -WEST FRONTAGE ROAD CLOSED. SEE DETOUR PROJECT 1030-11-74
- -KRAUT ROAD WEST CLOSED
- -EVANS LANE CLOSED
- -2 MILE ROAD CLOSED
- -NICHOLAS ROAD CLOSED
- -3 MILE ROAD CLOSED
- -IH 94 REMAINS OPEN
- -EAST FRONTAGE ROAD REMAINS OPEN
- -KRAUT ROAD EAST REMAINS OPEN
- -GOLF ROAD EAST REMAINS OPEN

STAGE 2 WORK ZONE

PROJECT NO: 1030-11-77/78	HWY: IH 94	COUNTY: RACINE	CONSTRUCTION STAGING OVERVIEW	SHEET 185	E

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N

CTH C

EVANS LN

WEST FRONTAGE ROAD

KRAUT ROAD

EAST FRONTAGE ROAD

STH 20

MATCHLINE 5967+00

BEGIN PROJECT
I.D. 1030-11-77
STA 5897+00

102

104

1000'

500'

500'

500'

500'

500'

500'

1000'

USE TEMPORARY STOP SIGN AS NECESSARY.
SEE CONSTRUCTION DETAIL.

SEE SDD "BARRICADES AND SIGNS FOR SIDEROAD CLOSURES"

PLACE AT INTERSECTION WITH CTH V

LEGEND

TYPE III BARRICADE

TYPE III BARRICADE WTH ATTACHED SIGN

POST MOUNTED SIGN

WORK AREA

DIRECTION OF TRAFFIC

XXX FIXED MESSAGE SIGN NUMBER

A ROAD CLOSED AHEAD W20-3

B ROAD CLOSED 1000 FT W20-3

C ROAD CLOSED 500 FT W20-3

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

E ROAD WORK AHEAD W20-1

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

G ROAD CLOSED 1/2 MILE W20-3

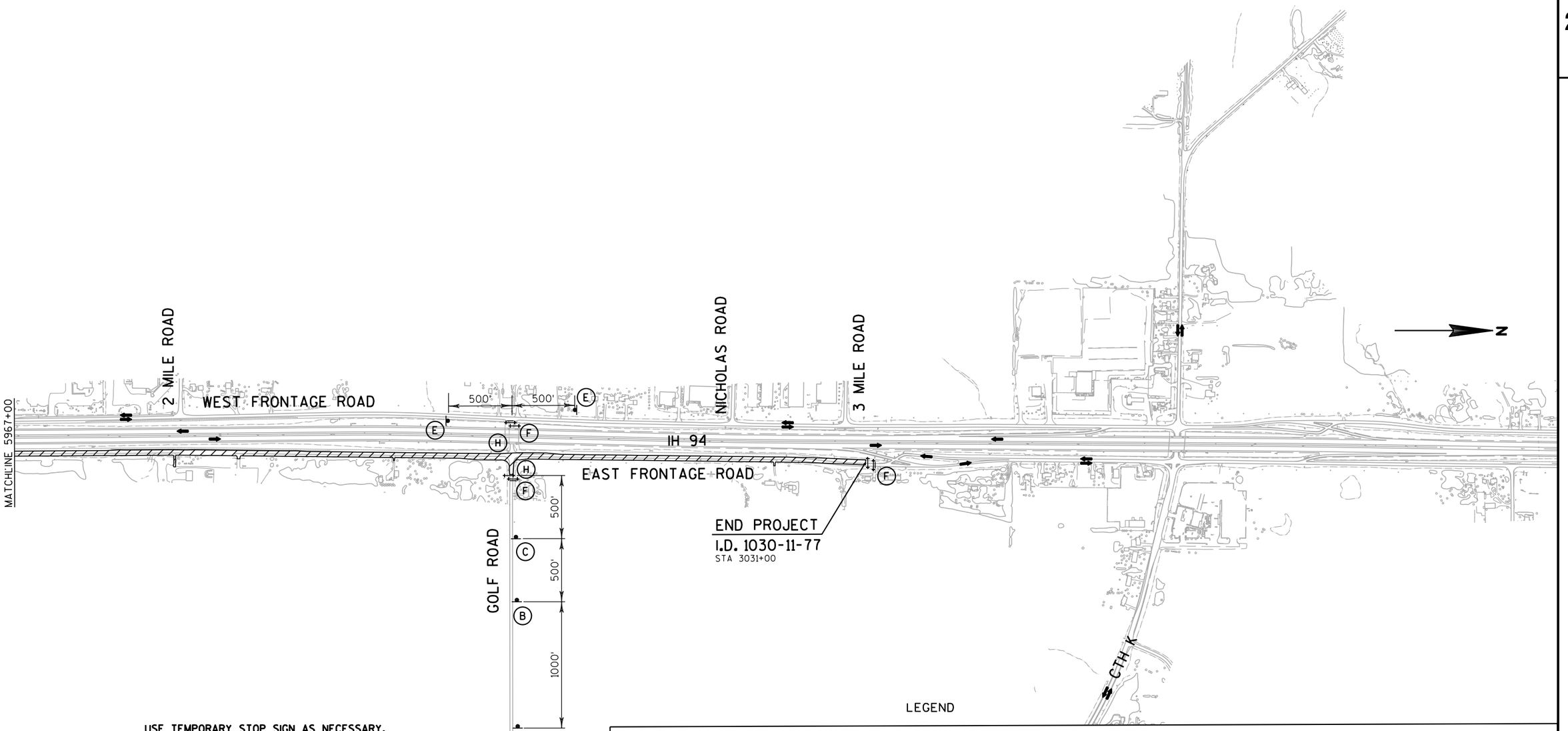
H STOP R1-1 36" X 36"

I ROAD CLOSED 1.25 MILES AHEAD LOCAL TRAFFIC ONLY R11-3a 60" X 30"

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 1	SHEET 186	E

2

2



USE TEMPORARY STOP SIGN AS NECESSARY.
SEE CONSTRUCTION DETAIL.

SEE SDD "BARRICADES AND
SIGNS FOR SIDEROAD CLOSURES"

J — J

PLACE AT INTERSECTION
WITH CTH V

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- WORK AREA
- DIRECTION OF TRAFFIC
- XXX — FIXED MESSAGE SIGN NUMBER

A — ROAD CLOSED AHEAD W20-3

B — ROAD CLOSED 1000 FT W20-3

C — ROAD CLOSED 500 FT W20-3

D — END ROAD WORK G20-2A 48" X 24"

J — ROAD CLOSED 1 MILE AHEAD LOCAL TRAFFIC ONLY R11-3a 60" X 30"

E — ROAD WORK AHEAD W20-1

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

G — ROAD CLOSED 1/2 MILE W20-3

H — STOP R1-1 36" X 36"

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 1	SHEET 187	E

2

PLACE AT INTERSECTION
WITH 53RD DRIVE

N

CTH C

EVANS LN

KRAUT ROAD

WEST FRONTAGE ROAD

EAST FRONTAGE ROAD

STH 20

106

108

BEGIN PROJECT
STA 4891+90

MATCHLINE 4963+00

1000'
500'
500'
500'
500'
500'
500'
500'
1000'

LEGEND

TYPE III BARRICADE

TYPE III BARRICADE WTH ATTACHED SIGN

SIGN ON PERMANENT SUPPORT

WORK AREA

DIRECTION OF TRAFFIC

XXX FIXED MESSAGE SIGN NUMBER

A — ROAD CLOSED AHEAD — W20-3

B — ROAD CLOSED 1000 FT — W20-3

C — ROAD CLOSED 500 FT — W20-3

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

E — ROAD WORK AHEAD — W20-1

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

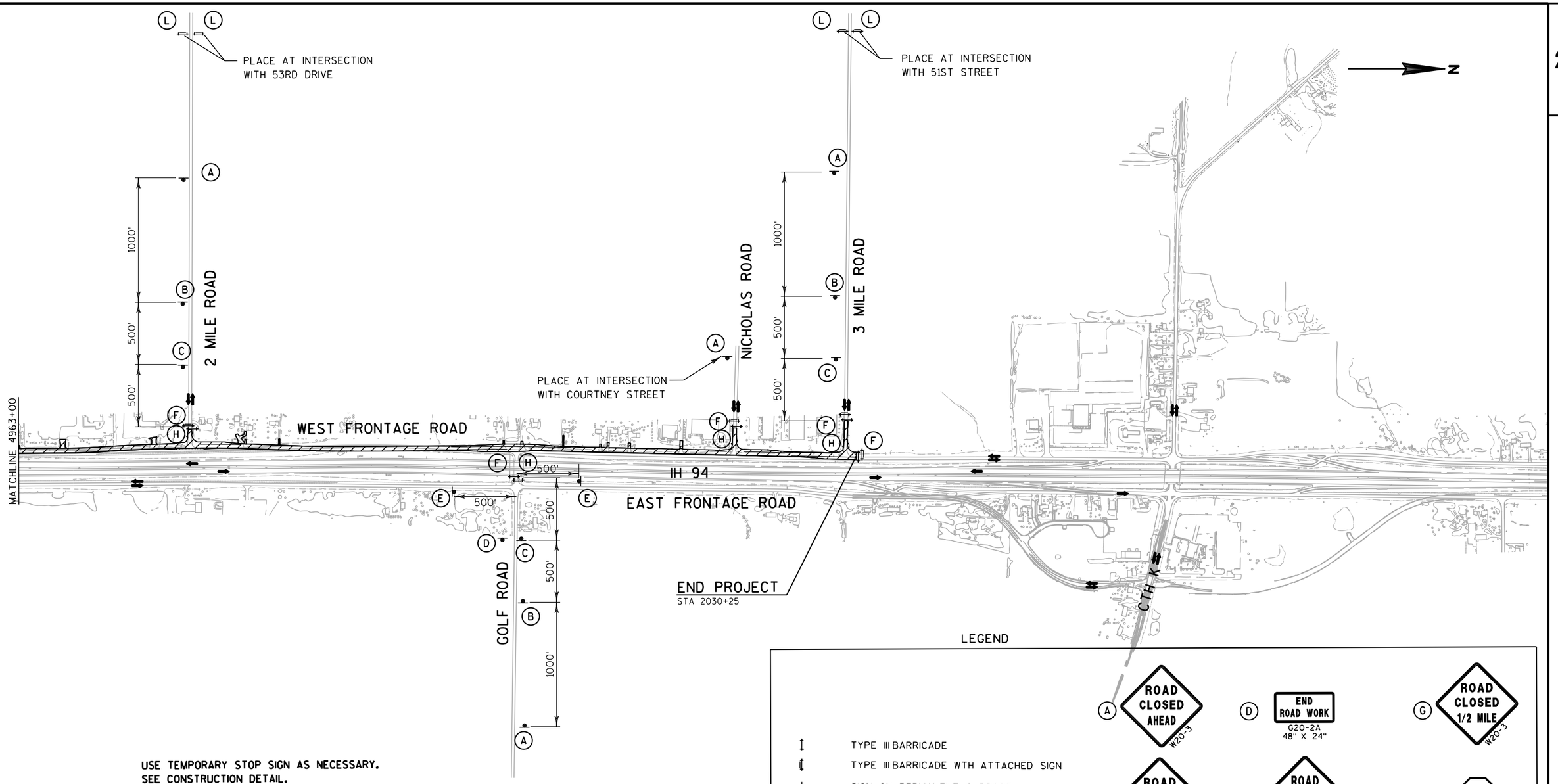
H — STOP — R1-1 — 36" X 36"

L — ROAD CLOSED 1.5 MILES AHEAD LOCAL TRAFFIC ONLY — R11-3a — 60" X 30"

USE TEMPORARY STOP SIGN AS NECESSARY.
SEE CONSTRUCTION DETAIL.

SEE SDD "BARRICADES AND
SIGNS FOR SIDEROAD CLOSURES"

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 2	SHEET 188	E



USE TEMPORARY STOP SIGN AS NECESSARY.
SEE CONSTRUCTION DETAIL.

SEE SDD "BARRICADES AND
SIGNS FOR SIDEROAD CLOSURES"

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- WORK AREA
- DIRECTION OF TRAFFIC
- XXX — FIXED MESSAGE SIGN NUMBER

A — ROAD CLOSED AHEAD W20-3

B — ROAD CLOSED 1000 FT W20-3

C — ROAD CLOSED 500 FT W20-3

D — END ROAD WORK G20-2A 48" X 24"

E — ROAD WORK AHEAD W20-1

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

G — ROAD CLOSED 1/2 MILE W20-3

H — STOP R1-1 36" X 36"

L — ROAD CLOSED 1.5 MILES AHEAD LOCAL TRAFFIC ONLY R11-3a 60" X 30"

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 2	SHEET 189	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\025004_TC.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:800.001

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GENERAL NOTES

-ALL SIGNS TO HAVE FLUORESCENT REFLECTIVE SHEETING - REFERENCE: WISDOT STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, LATEST EDITION.

-AFTER SIGNS HAVE BEEN LOCATED IN THE FIELD, BUT BEFORE INSTALLATION, THE PROJECT ENGINEER SHALL VERIFY EACH SIGN LOCATION.

-ALL SIGNS TO BE MOUNTED ON WOODEN POST SUPPORTS (4"X6"). THE NUMBER OF POSTS REQUIRED FOR EACH LAYOUT IS SHOWN.

-SIGNS ON THIS SHEET TO BE PAID UNDER THE ITEM "FIXED MESSAGE SIGNS".

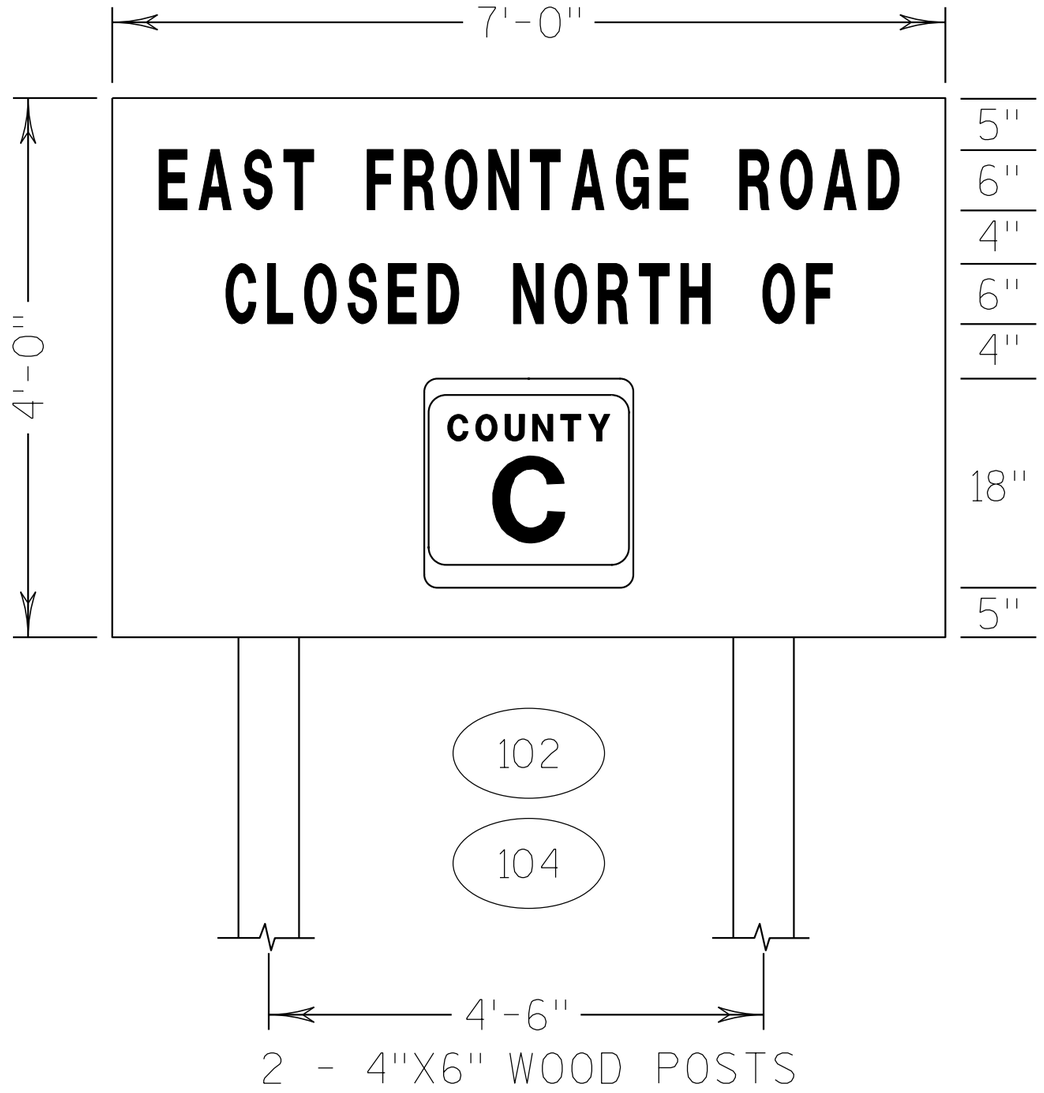
-SIGNS SHALL BE BLACK NON-REFLECTIVE MESSAGE ON ORANGE FLUORESCENT REFLECTIVE BACKGROUND PER SPEC. 637 & 643.

-ALL SIGNS SHALL HAVE CAPITAL LETTERS AND NUMERALS: 6" CAPS SHALL BE SERIES "C".

-CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO ENGINEER FOR REVIEW PRIOR TO MANUFACTURING. CONTRACTOR TO VERIFY DIMENSIONS.

-SIGN BASE MATERIAL SHALL BE ACCORDING TO SECTION 637 & 643.

(XXX) SIGN NUMBER NOTED ON TRAFFIC CONTROL PLAN



PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	TRAFFIC CONTROL DETAIL: FIXED MESSAGE SIGNS	SHEET 190	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\025005_TC.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:100

GENERAL NOTES

-ALL SIGNS TO HAVE FLUORESCENT REFLECTIVE SHEETING - REFERENCE: WISDOT STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, LATEST EDITION.

-AFTER SIGNS HAVE BEEN LOCATED IN THE FIELD, BUT BEFORE INSTALLATION, THE PROJECT ENGINEER SHALL VERIFY EACH SIGN LOCATION.

-ALL SIGNS TO BE MOUNTED ON WOODEN POST SUPPORTS (4"X6"). THE NUMBER OF POSTS REQUIRED FOR EACH LAYOUT IS SHOWN.

-SIGNS ON THIS SHEET TO BE PAID UNDER THE ITEM "FIXED MESSAGE SIGNS".

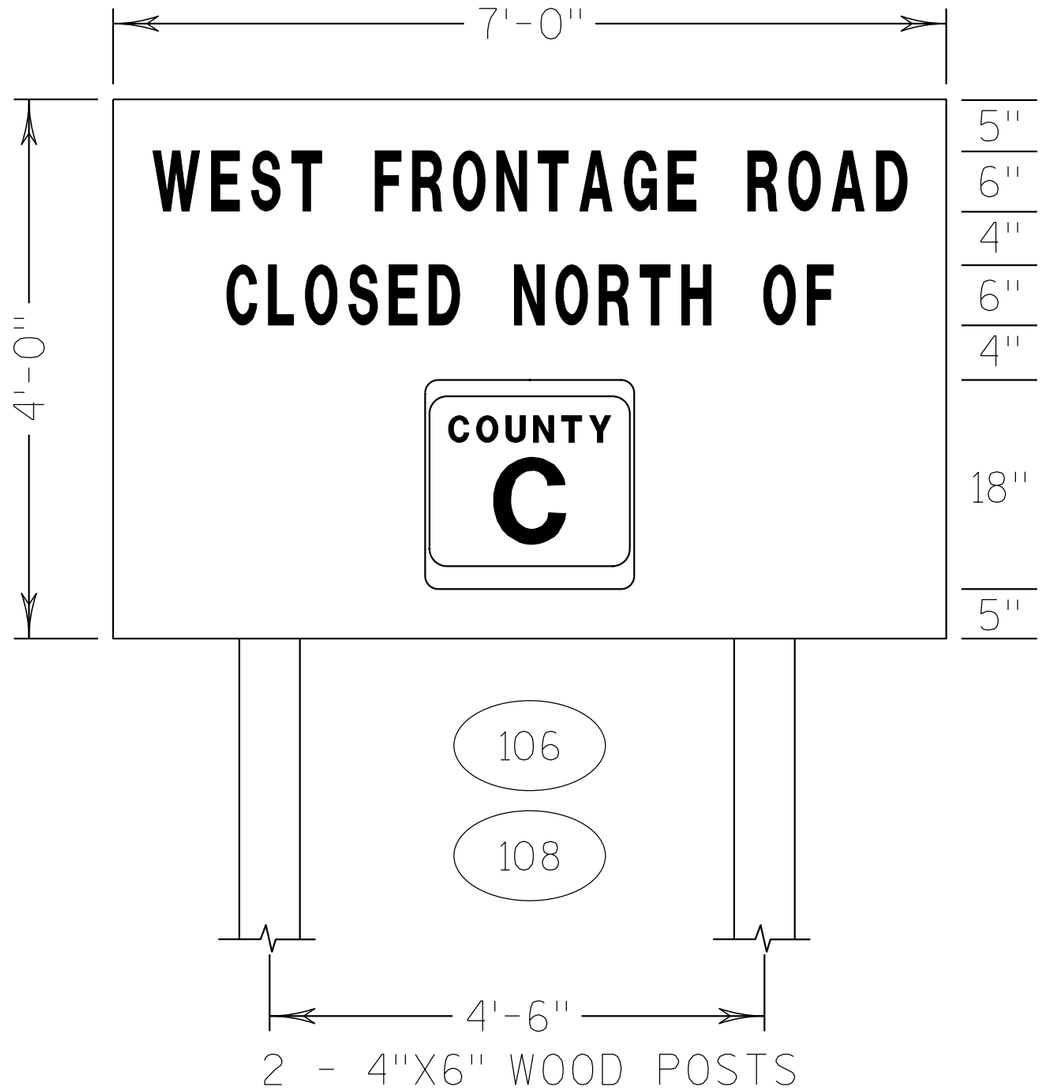
-SIGNS SHALL BE BLACK NON-REFLECTIVE MESSAGE ON ORANGE FLUORESCENT REFLECTIVE BACKGROUND PER SPEC. 637 & 643.

-ALL SIGNS SHALL HAVE CAPITAL LETTERS AND NUMERALS: 6" CAPS SHALL BE SERIES "C".

-CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO ENGINEER FOR REVIEW PRIOR TO MANUFACTURING. CONTRACTOR TO VERIFY DIMENSIONS.

-SIGN BASE MATERIAL SHALL BE ACCORDING TO SECTION 637 & 643.

(XXX) SIGN NUMBER NOTED ON TRAFFIC CONTROL PLAN



PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	TRAFFIC CONTROL DETAIL: FIXED MESSAGE SIGNS	SHEET 191	E

2

2

N

R/L WEST FRONTAGE ROAD

WEST FRONTAGE ROAD

IH 94 SB

IH 94 NB

EAST FRONTAGE ROAD

R/L EAST FRONTAGE ROAD

MATCHLINE STA 5925+00

+00.00
57.72' LT
MATCH EXISTING

BEGIN PROJECT 1030-11-77
STA 5897+00.00

FENCE WOVEN
WIRE 4-FEET

SLOPE INTERCEPT

+33.58
40.28' LT

+88.44
44.22' LT

+98.42
42.57' LT

MATCHLINE STA 5925+00

MATCHLINE STA 5955+50

KRAUT RD

+45
46.00' LT
MATCH EXISTING

+59
46.00' LT
MATCH EXISTING

5927+04.94 EAST FRONTAGE ROAD =
50+56.00 KRAUT ROAD

R/L KRAUT ROAD

+36.18
46.00' LT

+91.07
49.34' LT

+46.07
49.16' LT

+00.98
46.00' LT

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	FENCING PLAN- EAST FRONTAGE ROAD	SHEET 192	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\027101_FN.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:200

2

R/L WEST FRONTAGE ROAD

4955 4960 WEST FRONTAGE ROAD 4965 4970 4975 4980

955 960 IH 94 SB 965 970 975 980

IH 94 NB

MATCHLINE STA 5955+50

5960 5965 5970 5975 5980 5985

EAST FRONTAGE ROAD

FENCE WOVEN WIRE 4-FEET

R/L EAST FRONTAGE ROAD

SLOPE INTERCEPT

MATCHLINE STA 5986+00

2

R/L WEST FRONTAGE ROAD

4985 4990 WEST FRONTAGE ROAD 4995 5000 5005 5010

985 IH 94 SB 990 995 1000 1005 1010

IH 94 NB

MATCHLINE STA 5986+00

+02.58
47.31' LT

+47.59
46.00' LT

+57.58
47.21' LT

+82
52.55' LT
MATCH EXISTING

+50
46.00' LT

GOLF RD

+58
58.14' LT
MATCH EXISTING

+00
46.00' LT

5990 5995 6000 6005 3005 3010

EAST FRONTAGE ROAD

FENCE WOVEN WIRE 4-FEET

R/L EAST FRONTAGE ROAD

SLOPE INTERCEPT

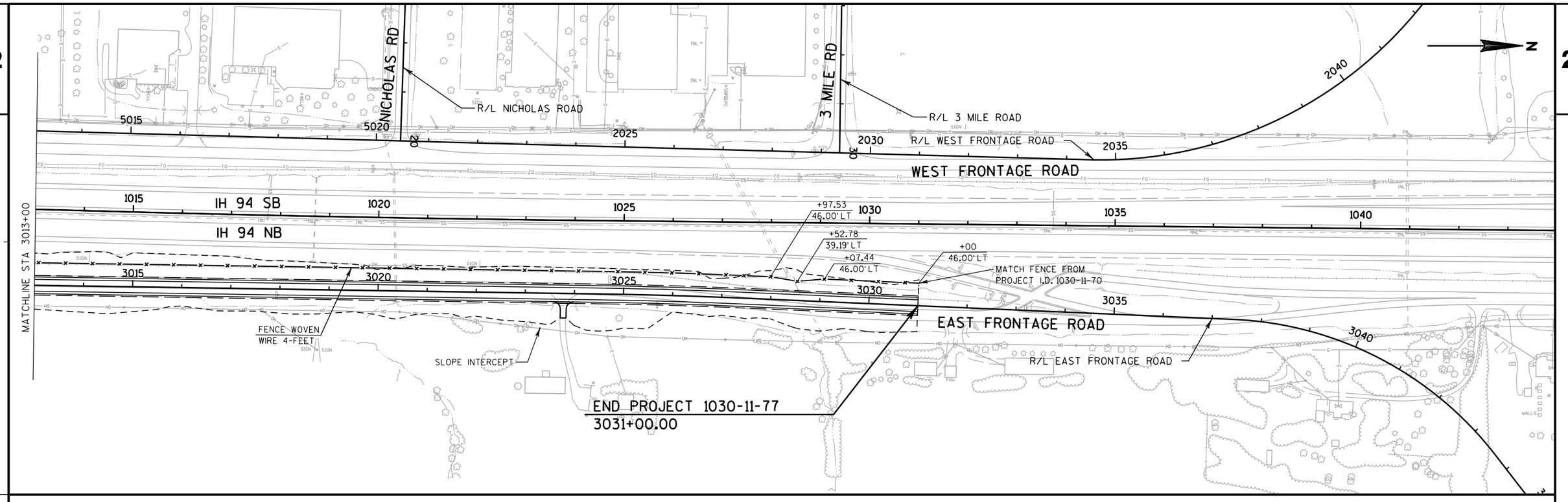
STATION EQUATION
STA 6006+38.71 BK =
STA 3002+94.33 AH =

R/L GOLF ROAD

MATCHLINE STA 3013+00

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	FENCING PLAN- EAST FRONTAGE ROAD	SHEET 193	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\027102_FN.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:200



PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	FENCING PLAN- EAST FRONTAGE ROAD	SHEET 194	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\027103_FN.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:200

2

BEGIN PROJECT 1030-11-78
STA 4891+90.00

EVANS LANE

R/L EVANS LANE

FENCE WOVEN WIRE 4-FEET

SLOPE INTERCEPT

R/L WEST FRONTAGE ROAD

WEST FRONTAGE ROAD

+88.10
46.00' RT

+38.39
81.34' RT
MATCH EXISTING

+00
63.92' RT
MATCH EXISTING

+50
46.00' RT

+00
56.85' RT
MATCH EXISTING

+50
46.00' RT

IH 94 SB

IH 94 NB

EAST FRONTAGE ROAD

R/L EAST FRONTAGE ROAD

5TH C

MATCHLINE STA 4921+50

MATCHLINE STA 4921+50

KRAUT RD

+50
46.00' RT

+00
51.07' RT
MATCH EXISTING

+00
55.47' RT
MATCH EXISTING

+50
46.00' RT

+34.88
46.00' RT

+90.01
46.00' RT

+72.51
46.00' RT

FENCE WOVEN WIRE 4-FEET (TYP)

+00
54.43' RT
MATCH EXISTING

+50
46.00' RT

+38
56.33' RT

+72
55.88' RT

+00
50.90' RT

+50
46.00' RT

SLOPE INTERCEPT

R/L WEST FRONTAGE ROAD

WEST FRONTAGE ROAD

IH 94 SB

IH 94 NB

EAST FRONTAGE ROAD

R/L EAST FRONTAGE ROAD

R/L KRAUT ROAD

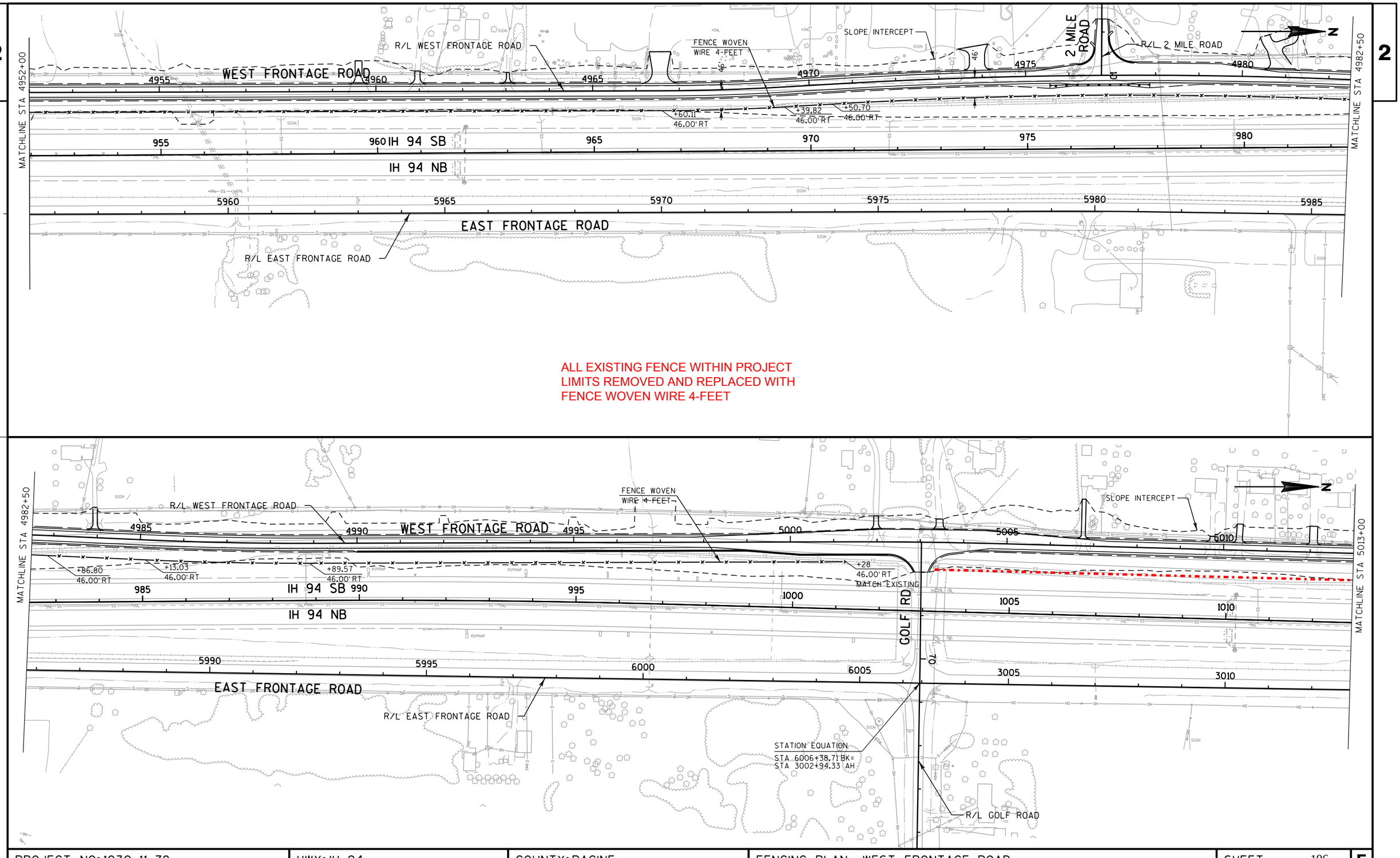
MATCHLINE STA 4952+00

ALL EXISTING FENCE WITHIN PROJECT LIMITS REMOVED AND REPLACED WITH FENCE WOVEN WIRE 4-FEET

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	FENCING PLAN- WEST FRONTAGE ROAD	SHEET 195	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\027111_FN.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:200

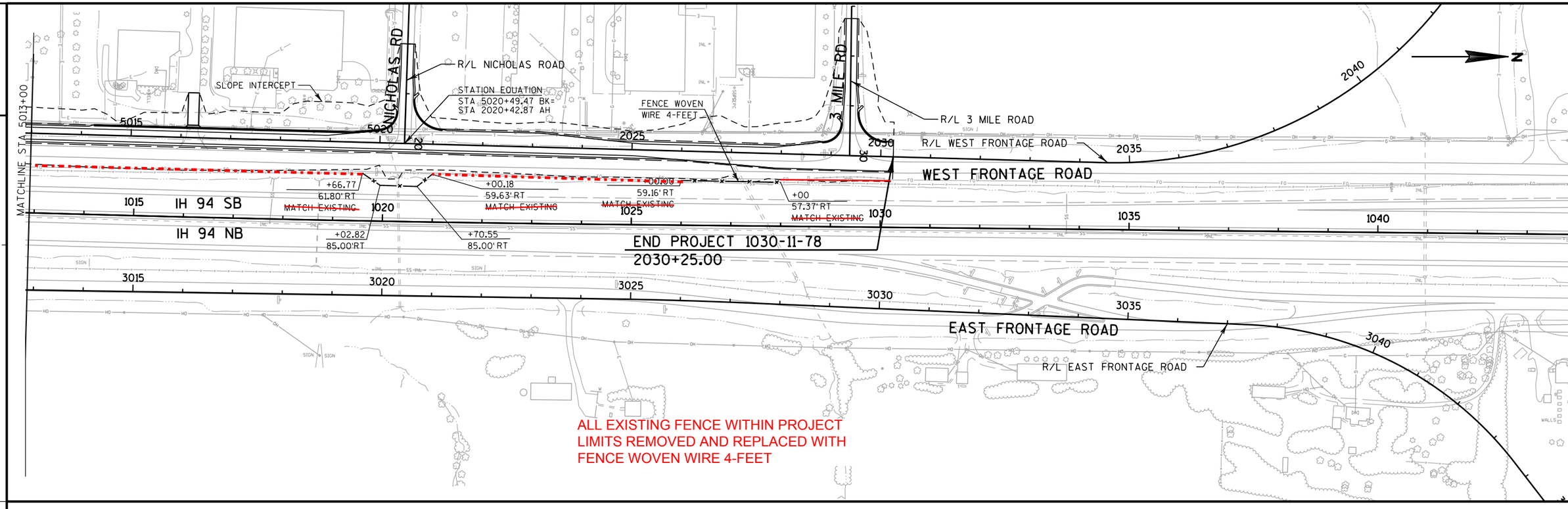
WISDOT/CADDS SHEET 42



PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	FENCING PLAN- WEST FRONTAGE ROAD	SHEET 196	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\027112_FN.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : | PLOT SCALE : 1:200

10301177-00008RDAPERM



PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	FENCING PLAN- WEST FRONTAGE ROAD	SHEET 197	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\027113_FN.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:200

WISDOT/CADDS SHEET 42

2

2

CONTROL POINTS					
POINT NO.	TYPE	COORDINATES			STA/OFF
		X	Y	Z	
CP89687	Chiseled X	594067.090	188958.120	746.340	5900+36.0, 70.57' LT

N

Y=188952.36
X=591445.72

T 3 N R 21 E
12 12 12

EVANS LANE ALIGNMENT DOES NOT MATCH SECTION LINE

4891+42.11 WEST FRONTAGE ROAD =
891+40.03 IH 94, 192.70'LT
Y = 188407.82
X = 593827.43

BEGIN PROJECT 1030-11-78
4891+90.00
Y = 188455.63
X = 593830.23

80

80+00.00 EVANS LANE =
4897+17.57 IH 94, 300.01'LT
Y = 188981.68
X = 593552.61

N89°14'25"E

R/L EVANS LANE

4897+20.62 WEST FRONTAGE ROAD =
83+00.03 EVANS LANE
Y = 188985.66
X = 593852.61

R/L WEST FRONTAGE ROAD

PC WU
PI WU
PT WU

4890
N3°20'47"E
4895
4900
4905
4910
4915
N1°40'25"W
CURVE WF3
PC WF3
PI WF3
PT WF3

CURVE WU

83

N0°10'43"W

Y=188984.80
X=594090.88

T 3 N R 21 E R 22 E
12 7 7 7

BRASS MONUMENT REMOVED AND REPLACED DURING CONSTRUCTION

R/L IH 94

890
895
905
910
915
N0°08'00"W

CP 89687

N0°38'53"W

PC 1
CURVE 1
PI 1
PT 1

SECTION LINE 2637.68' N0°12'54"W

SECTION LINE 2639.82' N0°07'52"W

5900
5905
5910
5915
5920

436.30'

PI EU
CURVE EU
PT EU

R/L EAST FRONTAGE ROAD

N0°07'52"W

Y=186347.14
X=594090.84

T 3 N R 21 E R 22 E
13 12 18 7

5895
N19°51'50"W
PC EU

Y=191624.62
X=594074.84

T 3 N R 21 E R 22 E
12 1 7 6

BEGIN PROJECT 1030-11-77
5897+00.00
Y = 188627.55
X = 594181.21

5894+98.38 EAST FRONTAGE ROAD =
891+65.62 IH 94, 223.82'RT
Y = 188435.99
X = 594243.78

S88°35'16"E

Y=188923.50
X=596567.92

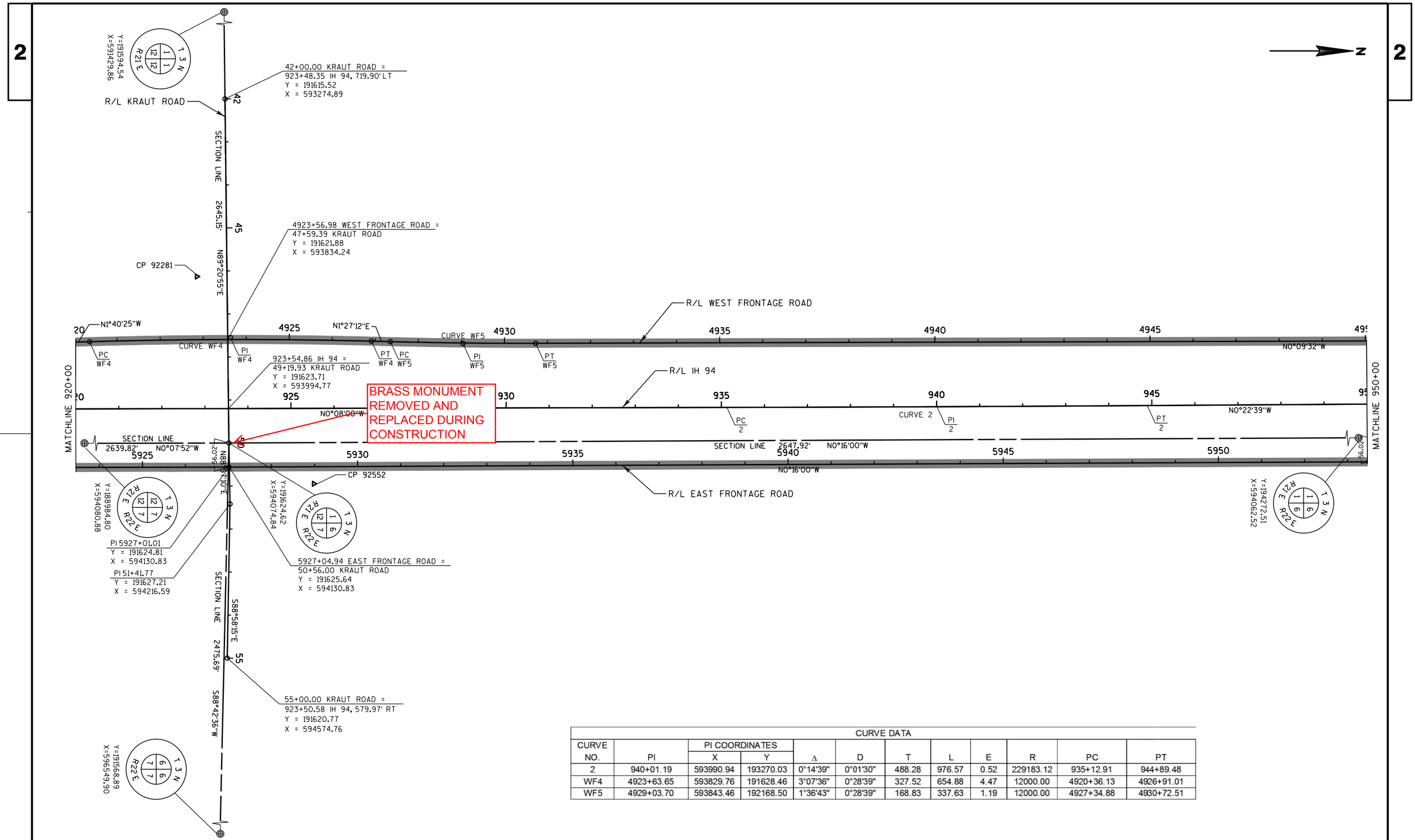
T 3 N R 22 E
7 7 7 7

MATCHLINE 920+00

CURVE DATA											
CURVE NO.	PI	PI COORDINATES		Δ	D	T	L	E	R	PC	PT
		X	Y								
1	912+10.89	593997.44	190479.73	0°30'52"	0°03'00"	514.55	1029.10	1.16	114585.56	906+96.33	917+25.43
WU	4895+80.96	593853.05	188845.92	3°31'30"	1°25'57"	123.08	246.05	1.89	4000.00	4894+57.88	4897+03.96
WF3	4918+03.46	593846.12	191068.49	1°29'42"	0°28'39"	156.57	313.12	1.02	12000.00	4916+46.89	4919+60.01
EU	5898+11.27	594137.46	188730.26	19°43'58"	4°05'33"	243.49	482.16	21.02	1400.00	5895+67.78	5900+49.94

PROJECT NO: 1030-11-77/78	HWY: IH 94	COUNTY: RACINE	ALIGNMENT LAYOUT	SHEET 198	E

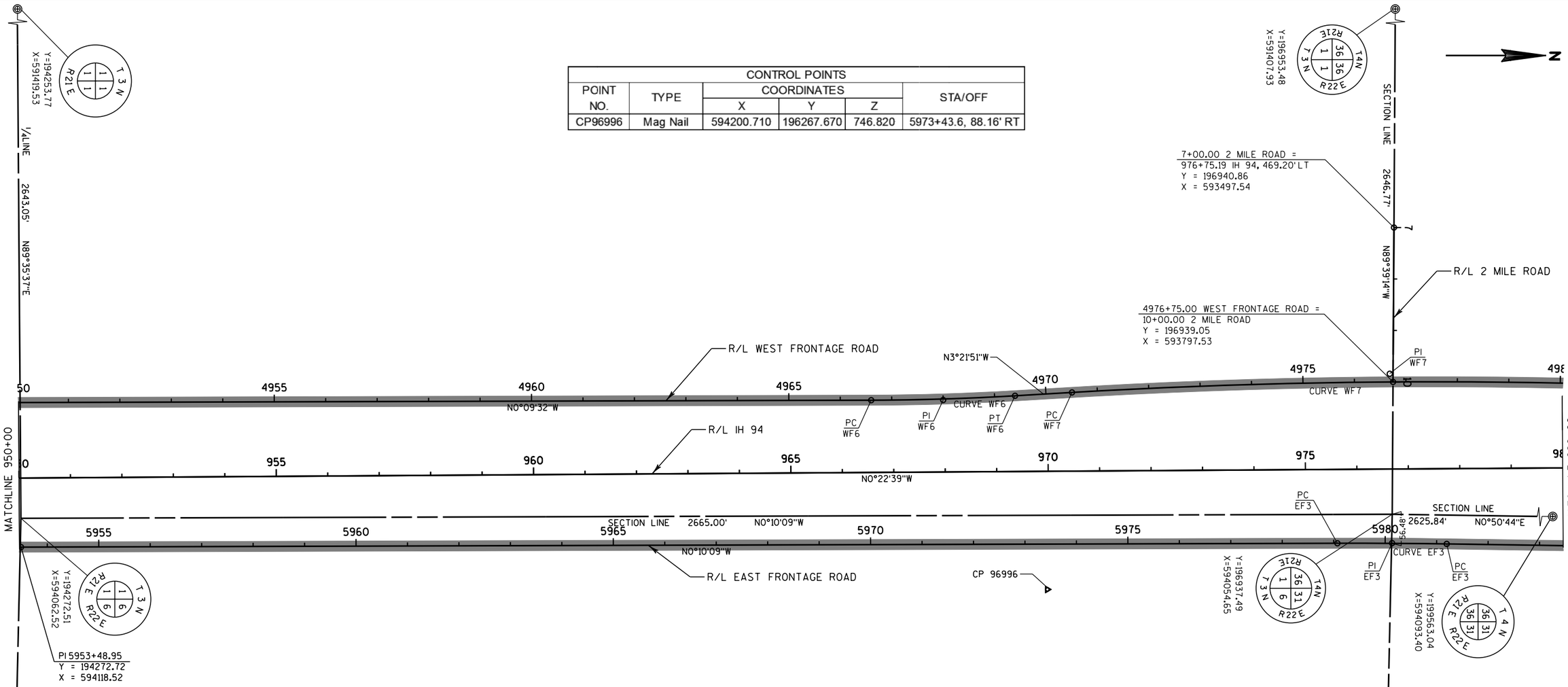
2



CURVE DATA											
CURVE NO.	PI	PI COORDINATES X	PI COORDINATES Y	Δ	D	T	L	E	R	PC	PT
2	940+01.19	593990.94	193270.03	0°14'39"	0°01'30"	488.28	976.57	0.52	229183.12	935+12.91	944+89.48
WF4	4923+63.65	593829.76	191628.46	3°07'36"	0°28'39"	327.52	654.88	4.47	12000.00	4920+36.13	4926+91.01
WF5	4929+03.70	593843.46	192168.50	1°36'43"	0°28'39"	168.83	337.63	1.19	12000.00	4927+34.88	4930+72.51

PROJECT NO: 1030-11-77/78	HWY: IH 94	COUNTY: RACINE	ALIGNMENT LAYOUT	SHEET 199	E

CONTROL POINTS					
POINT NO.	TYPE	COORDINATES			STA/OFF
		X	Y	Z	
CP96996	Mag Nail	594200.710	196267.670	746.820	5973+43.6, 88.16' RT



CURVE DATA											
CURVE NO.	PI	PI COORDINATES		Δ	D	T	L	E	R	PC	PT
		X	Y								
WF6	4968+00.00	593832.66	196064.80	3°12'19"	1°08'45"	139.89	279.71	1.96	5000.00	4966+60.11	4969+39.82
WF7	4976+69.29	593781.64	196932.67	5°54'07"	0°28'39"	618.60	1236.10	15.93	12000.00	4970+50.70	4982+86.80
EF3	5980+13.40	594110.66	196937.16	1°52'35"	0°28'39"	106.25	212.48	0.47	12000.00	5979+07.15	5981+19.64

PROJECT NO: 1030-11-77/78	HWY: IH 94	COUNTY: RACINE	ALIGNMENT LAYOUT	SHEET 200	E

2

2

N

Y=199593.69
X=591437.28
T 4 N
R 21 E
36 36
36 36

1/4 LINE

R/L GOLF ROAD

2656.30'

N89°20'20"W

R/L GOLF ROAD =
1/4 SECTION LINE

5003+02.62 WEST FRONTAGE ROAD =
67+30.80 GOLF ROAD
Y = 199566.15
X = 593824.21

R/L WEST FRONTAGE ROAD

CP 98281

80 4985 4990 4995 5000 5005 501

CURVE WF7 | PT WF7 | N2°32'16"E | PC WF8 | PI WF8 | CURVE WF8 | PT WF8 | N0°09'32"W | PC WF9 | CURVE WF9 | PT WF9 | PI WF9 | N1°34'09"E

1002+95.88 IH 94 =
48+89.60 GOLF ROAD
Y = 199564.32
X = 593983.01

R/L IH 94

MATCHLINE 980+00

80 985 990 995 1000 1005 10

NO°22'39"W | PC 3 | CURVE 3 | PI 3 | PT 3 | N1°32'42"E

MATCHLINE 1010+00

BRASS MONUMENT
REMOVED AND
REPLACED DURING
CONSTRUCTION

5985 5990 5995 6000 6005 3005

SECTION LINE 2625.84' N0°50'44"E

SECTION LINE 2640.62' N0°52'57"E

N0°50'44"E

Y=196937.49
X=594054.65
T 3 N
R 22 E
1 36 31
6 31 36
T 4 N
R 21 E

CP 98281

R/L EAST FRONTAGE ROAD

Y=199563.04
X=594093.40
T 4 N
R 21 E
R 22 E
36 31
31 36

Y=202203.35
X=594134.08
T 4 N
R 21 E
R 22 E
36 31
25 30

6006+38.62 EAST FRONTAGE ROAD =
70+56.00 GOLF ROAD
Y = 199562.11
X = 594149.39

PI/STATION EQUATION
STA. 6006+38.71 BACK=
STA. 3002+95.47 AHEAD=
Y = 199562.20
X = 594149.39

1/4 LINE

2477.74'

75

N89°02'40"W

75+00.00 GOLF ROAD =
1003+02.73 IH 94, 610.36' RT
Y = 199554.71
X = 594593.34

R/L GOLF ROAD

Y=199521.72
X=596570.80
T 4 N
R 22 E
31 31
31 31

CURVE DATA

CURVE NO.	PI	PI COORDINATES X	PI COORDINATES Y	Δ	D	T	L	E	R	PC	PT
3	992+96.03	593956.05	198564.76	1°55'22"	0°14'00"	412.04	824.00	3.46	24555.33	988+84.00	997+07.99
WF7	4976+69.29	593781.64	196932.67	5°54'07"	0°28'39"	618.60	1236.10	15.93	12000.00	4970+50.70	4982+86.80
WF8	4987+01.34	593827.39	197964.79	2°41'48"	0°42'58"	188.30	376.53	2.22	8000.00	4985+13.03	4988+89.57
WF9	5003+09.24	593822.93	199572.76	1°43'41"	0°28'39"	180.96	361.89	1.36	12000.00	5001+28.28	5004+90.17

PROJECT NO: 1030-11-77/78	HWY: IH 94	COUNTY: RACINE	ALIGNMENT LAYOUT	SHEET 201	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\027204_ad.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : | PLOT SCALE : 1:200

FSE

2

2

N

17+00.00 NICHOLAS ROAD =
1020+46.59 IH 94, 456.88' LT
Y = 201322.38
X = 593570.75

R/L NICHOLAS ROAD

S88°03'54"E

STATION EQUATION
STA. 5020+49.47 BACK=
STA. 2020+42.90 AHEAD=
STA. 20+00.00 NICHOLAS RD.
Y = 201312.25
X = 593870.58

2029+37.42 WEST FRONTAGE ROAD =
30+00.00 3 MILE ROAD
Y = 202206.58
X = 593895.08

27+00.00 3 MILE ROAD =
1029+38.24 IH 94, 443.12' LT
Y = 202210.64
X = 593595.10

SECTION LINE 2660.61' N0°13'30"W

R/L 3 MILE ROAD

END PROJECT 1030-11-78
2030+25.00
Y = 202294.10
X = 593897.47

2034+00 WEST FRONTAGE ROAD =
1033+99.78 IH 94, 135.26' LT
Y = 202668.96
X = 593907.74

Y=202239.33
X=591473.71

T 4 N R 21 E — 36 25

10 5015 5020 2025 2030 2035 2040

N1°34'09"E

R/L WEST FRONTAGE ROAD

R/L IH 94

MATCHLINE 1010+00

10 1015 1020 1025 1030 1035 1040

N1°32'42"E PC 4 CURVE 4 PI 4 PT 4 N0°35'40"E

010 3015 3020 3025 3030 3035 3040

SECTION LINE 2640.62' N0°52'57"E

SECTION LINE 2635.24' N0°43'07"E

N0°52'57"E

CP 102044

PC EF2 CURVE EF2 PI EF2 PT EF2

N2°29'01"E

R/L EAST FRONTAGE ROAD

Y=195563.04
X=594093.40

T 4 N R 22 E — 36 31

PI 3029+36.01
Y = 202202.17
X = 594199.45

SECTION LINE 2450.32' N88°58'03"W

Y=202203.35
X=594134.08

T 4 N R 22 E — 36 31 25 30

END PROJECT 1030-11-77
3031+00.00
Y = 202366.00
X = 594206.56

3037+00.00 EAST FRONTAGE ROAD =
1036+99.61 IH 94, 186.47' RT
Y = 202965.44
X = 594232.56

Y=204838.38
X=594167.13

T 4 N R 22 E — 25 30

Y=202159.19
X=596584.00

T 4 N R 22 E — 31 30

CONTROL POINTS

POINT NO.	TYPE	COORDINATES X	Y	Z	STA/OFF
CP102044	Chiseled X	594198.470	201310.540	735.250	3020+44.4, 22.14' RT

CURVE DATA

CURVE NO.	PI	PI COORDINATES X	Y	Δ	D	T	L	E	R	PC	PT
4	1019+70.32	594028.16	201238.16	0°57'02"	0°06'00"	475.29	950.56	1.97	57289.78	1014+95.03	1024+45.59
EF2	3025+99.96	594184.89	201866.41	1°36'03"	0°34'23"	139.71	279.41	0.98	10000.00	3024+60.25	3027+39.66

PROJECT NO: 1030-11-77/78	HWY: IH 94	COUNTY: RACINE	ALIGNMENT LAYOUT	SHEET 202	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\027205_ad.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:200

2

NOTE: POSITIVE VALUES SLOPE TOWARDS THE REFERENCE LINE
NOTE: NEGATIVE VALUES SLOPE AWAY FROM THE REFERENCE LINE

EAST FRONTAGE ROAD

SUPERELEVATION & CROSS SLOPE DATA	STATION	RATE	
		LEFT	RIGHT
MATCH EXISTING	5897+00	4.10%	-4.10%
END FULL SUPER	5900+22	4.10%	-4.10%
REMOVE ADVERSE CROWN	5900+65	2.00%	-2.00%
BEGIN CROWN RUNON	5901+07	0.00%	-2.00%
END SUPER TRANSITION	5901+48	-2.00%	-2.00%
BEGIN SUPER TRANSITION	3023+75	-2.00%	-2.00%
END CROWN RUNOFF	3024+25	0.00%	-2.00%
REMOVE ADVERSE CROWN	3024+75	2.00%	-2.00%
BEGIN FULL SUPER	3024+75	2.00%	-2.00%
END FULL SUPER	3027+25	2.00%	-2.00%
REMOVE ADVERSE CROWN	3027+25	2.00%	-2.00%
BEGIN CROWN RUNON	3027+75	0.00%	-2.00%
END SUPER TRANSITION	3028+25	-2.00%	-2.00%

WEST FRONTAGE ROAD

SUPERELEVATION & CROSS SLOPE DATA	STATION	RATE	
		LEFT	RIGHT
BEGIN SUPER TRANSITION	4893+90	-2.00%	-2.00%
END CROWN RUNOFF	4894+31	-2.00%	0.00%
BEGIN FULL SUPER	4894+72	-2.00%	2.00%
END FULL SUPER	4896+65	-2.00%	2.00%
BEGIN EVANS LANE INTERSECTION	4897+05	-0.50%	0.50%
END EVANS LANE INTERSECTION	4897+35	-0.50%	0.50%
END SUPER TRANSITION	4897+85	-2.00%	-2.00%
BEGIN SUPER TRANSITION	4965+50	-2.00%	-2.00%
END CROWN RUNOFF	4966+00	-2.00%	0.00%
REMOVE ADVERSE CROWN	4966+50	-2.00%	2.00%
BEGIN FULL SUPER	4966+75	-3.00%	3.00%
END FULL SUPER	4969+25	-3.00%	3.00%
REMOVE ADVERSE CROWN	4969+50	-2.00%	2.00%
BEGIN CROWN RUNON	4970+00	-2.00%	0.00%
END SUPER TRANSITION	4970+50	-2.00%	-2.00%
BEGIN SUPER TRANSITION	4984+25	-2.00%	-2.00%
END CROWN RUNOFF	4984+75	-2.00%	0.00%
REMOVE ADVERSE CROWN	4985+25	-2.00%	2.00%
BEGIN FULL SUPER	4985+25	-2.00%	2.00%
END FULL SUPER	4986+75	-2.00%	2.00%
REMOVE ADVERSE CROWN	4986+75	-2.00%	2.00%
BEGIN CROWN RUNON	4987+25	-2.00%	0.00%
END SUPER TRANSITION	4988+00	-2.00%	-2.00%

NOTE: SEE ALSO PLAN DETAILS FOR CROSS-SLOPE TRANSITIONS THROUGH INTERSECTIONS

DATE 12DEC12 E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	1030-11-77 QUANTITY	1030-11-78 QUANTITY
0010	108.4400	CPM PROGRESS SCHEDULE	EACH	0.400	0.200	0.200
0020	201.0105	CLEARING **P**	STA	90.000	51.000	39.000
0030	201.0120	CLEARING	ID	254.000	52.000	202.000
0040	201.0205	GRUBBING **P**	STA	90.000	51.000	39.000
0050	201.0220	GRUBBING	ID	254.000	52.000	202.000
0060	203.0100	REMOVING SMALL PIPE CULVERTS	EACH	65.000	21.000	44.000
0070	203.0200	REMOVING OLD STRUCTURE (STATION) 027. 5906+05	LS	1.000	1.000	
0080	203.0200	REMOVING OLD STRUCTURE (STATION) 028. 5921+18	LS	1.000	1.000	
0090	203.0200	REMOVING OLD STRUCTURE (STATION) 029. 5938+28	LS	1.000	1.000	
0100	203.0200	REMOVING OLD STRUCTURE (STATION) 030. 5945+27	LS	1.000	1.000	
0110	203.0200	REMOVING OLD STRUCTURE (STATION) 031. 5954+68	LS	1.000	1.000	
0120	203.0200	REMOVING OLD STRUCTURE (STATION) 032. 5960+22	LS	1.000	1.000	
0130	203.0200	REMOVING OLD STRUCTURE (STATION) 033. 5979+62	LS	1.000	1.000	
0140	203.0200	REMOVING OLD STRUCTURE (STATION) 034. 6000+15	LS	1.000	1.000	
0150	203.0200	REMOVING OLD STRUCTURE (STATION) 035. 3007+01	LS	1.000	1.000	
0160	203.0200	REMOVING OLD STRUCTURE (STATION) 036. 3020+39	LS	1.000	1.000	
0200	204.0100	REMOVING PAVEMENT **P**	SY	31,474.000	31,474.000	
0210	204.0110	REMOVING ASPHALTIC SURFACE **P**	SY	215.000		215.000
0230	204.0125	REMOVING ASPHALTIC SURFACE MILLING	TON	14,650.000	14,650.000	
0260	204.0170	REMOVING FENCE **P**	LF	22,108.000	13,424.000	8,684.000
0280	204.0210	REMOVING MANHOLES	EACH	2.000		2.000
0290	204.0220	REMOVING INLETS	EACH	4.000	3.000	1.000
0300	204.0245	REMOVING STORM SEWER (SIZE) 008. 18-INCH **P**	LF	63.000	63.000	
0310	204.0245	REMOVING STORM SEWER (SIZE) 022. 29 X 45-INCH **P**	LF	7.000		7.000
0340	205.0100	EXCAVATION COMMON	CY	197,362.000	81,222.000	116,140.000
0350	205.0501.S	EXCAVATION, HAULING, AND DISPOSAL OF PETROLEUM CONTAMINATED SOIL	TON	425.000	425.000	
0360	208.1100	SELECT BORROW	CY	337.000	109.000	228.000
0370	213.0100	FINISHING ROADWAY (PROJECT) 012. 1030-11-77	EACH	1.000	1.000	
0380	213.0100	FINISHING ROADWAY (PROJECT) 014. 1030-11-78	EACH	1.000		1.000
0440	305.0110	BASE AGGREGATE DENSE 3/4-INCH	TON	11,538.000	5,500.000	6,038.000
0450	311.0110	BREAKER RUN	TON	8,650.000	6,050.000	2,600.000
0510	440.4410.S	INCENTIVE IRI RIDE	DOL	20,900.000	10,412.000	10,488.000
0520	455.0105	ASPHALTIC MATERIAL PG58-28	TON	2,203.000	1,060.000	1,143.000
0540	455.0605	TACK COAT	GAL	2,896.000	1,395.000	1,501.000
0560	460.1103	HMA PAVEMENT TYPE E-3	TON	36,637.000	17,644.000	18,993.000
0580	460.2000	INCENTIVE DENSITY HMA PAVEMENT	DOL	23,453.000	11,294.000	12,159.000
0590	465.0120	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES	TON	697.000	118.000	579.000
0610	465.0315	ASPHALTIC FLUMES **P**	SY	122.000	50.000	72.000
0620	520.0115	CULVERT PIPE CLASS III 15-INCH	LF	50.000	50.000	
0630	520.0118	CULVERT PIPE CLASS III 18-INCH	LF	628.000	88.000	540.000

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LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	1030-11-77 QUANTITY	1030-11-78 QUANTITY
0640	520.0124	CULVERT PIPE CLASS III 24-INCH	LF	553.000	300.000	253.000
0650	520.0130	CULVERT PIPE CLASS III 30-INCH	LF	78.000	78.000	
0660	520.8000	CONCRETE COLLARS FOR PIPE	EACH	8.000	6.000	2.000
0690	521.0342	APRON ENDWALLS FOR CULVERT PIPE SLOPED CROSS DRAINS STEEL 42-INCH 4 TO 1	EACH	3.000		3.000
0740	521.1515	APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS STEEL 15-INCH 6 TO 1	EACH	2.000	2.000	
0750	521.1518	APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS STEEL 18-INCH 6 TO 1	EACH	29.000	5.000	24.000
0760	521.1524	APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS STEEL 24-INCH 6 TO 1	EACH	27.000	12.000	15.000
0770	521.1530	APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS STEEL 30-INCH 6 TO 1	EACH	4.000	4.000	
0780	522.0115	CULVERT PIPE REINFORCED CONCRETE CLASS III 15-INCH	LF	76.000		76.000
0790	522.0124	CULVERT PIPE REINFORCED CONCRETE CLASS III 24-INCH	LF	146.000	54.000	92.000
0820	522.0324	CULVERT PIPE REINFORCED CONCRETE CLASS IV 24-INCH	LF	156.000	106.000	50.000
0840	522.1015	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 15-INCH	EACH	12.000	4.000	8.000
0850	522.1018	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 18-INCH	EACH	2.000		2.000
0860	522.1024	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH	EACH	18.000	9.000	9.000
0870	522.1030	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 30-INCH	EACH	1.000		1.000
0880	522.1036	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 36-INCH	EACH	8.000	2.000	6.000
0890	522.1042	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 42-INCH	EACH	6.000	3.000	3.000
0910	523.0129	CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-III 29X45-INCH	LF	68.000	68.000	
0920	523.0134	CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-III 34X53-INCH	LF	80.000	80.000	
0930	523.0419	CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-IV 19X30-INCH	LF	174.000	174.000	
0940	523.0429	CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-IV 29X45-INCH	LF	112.000	112.000	
0960	523.0519	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 19X30-INCH	EACH	4.000	4.000	
0970	523.0524	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 24X38-INCH	EACH	2.000		2.000
0980	523.0529	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 29X45-INCH	EACH	17.000	8.000	9.000
0990	523.0534	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 34X53-INCH	EACH	9.000	4.000	5.000
1000	523.0538	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 38X60-INCH	EACH	2.000	1.000	1.000

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LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	1030-11-77 QUANTITY	1030-11-78 QUANTITY
1030	601.0553	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D **P**	LF	5,412.000	2,317.000	3,095.000
1090	606.0200	RIPRAP MEDIUM	CY	20.000		20.000
1160	608.0415	STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 15-INCH	LF	727.000	275.000	452.000
1170	608.0418	STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 18-INCH	LF	479.000	281.000	198.000
1180	608.0424	STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 24-INCH	LF	889.000	238.000	651.000
1190	608.0430	STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 30-INCH	LF	100.000	16.000	84.000
1200	608.0436	STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 36-INCH	LF	520.000	182.000	338.000
1210	608.0442	STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 42-INCH	LF	568.000	310.000	258.000
1230	608.0454	STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 54-INCH	LF	14.000	14.000	
1240	608.0512	STORM SEWER PIPE REINFORCED CONCRETE CLASS V 12-INCH	LF	600.000	300.000	300.000
1250	610.0124	STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-III 24X38-INCH	LF	933.000		933.000
1260	610.0129	STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-III 29X45-INCH	LF	488.000	130.000	358.000
1270	610.0134	STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-III 34X53-INCH	LF	407.000	137.000	270.000
1280	610.0138	STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-III 38X60-INCH	LF	216.000	108.000	108.000
1310	610.0429	STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-IV 29X45-INCH	LF	282.000		282.000
1330	611.0430	RECONSTRUCTING INLETS	EACH	1.000		1.000
1340	611.0535	MANHOLE COVERS TYPE J-SPECIAL	EACH	37.000	16.000	21.000
1360	611.0612	INLET COVERS TYPE C	EACH	5.000	1.000	4.000
1380	611.0627	INLET COVERS TYPE HM	EACH	16.000	6.000	10.000
1390	611.0642	INLET COVERS TYPE MS	EACH	53.000	26.000	27.000
1420	611.2004	MANHOLES 4-FT DIAMETER	EACH	1.000		1.000
1430	611.2005	MANHOLES 5-FT DIAMETER	EACH	7.000	1.000	6.000
1440	611.2006	MANHOLES 6-FT DIAMETER	EACH	3.000	2.000	1.000
1450	611.2007	MANHOLES 7-FT DIAMETER	EACH	7.000	2.000	5.000
1460	611.2008	MANHOLES 8-FT DIAMETER	EACH	5.000	2.000	3.000
1470	611.3004	INLETS 4-FT DIAMETER	EACH	7.000	4.000	3.000
1500	611.3230	INLETS 2X3-FT	EACH	7.000	2.000	5.000
1510	611.3901	INLETS MEDIAN 1 GRATE	EACH	9.000	4.000	5.000
1520	611.3902	INLETS MEDIAN 2 GRATE	EACH	13.000	7.000	6.000
1530	611.3903	INLETS MEDIAN 3 GRATE	EACH	2.000		2.000
1540	611.3904	INLETS MEDIAN 4 GRATE	EACH	1.000		1.000
1550	611.9800.S	PIPE GRATES	EACH	3.000		3.000
1560	612.0106	PIPE UNDERDRAIN 6-INCH	LF	2,960.000	1,550.000	1,410.000
1570	612.0206	PIPE UNDERDRAIN UNPERFORATED 6-INCH	LF	90.000	45.000	45.000
1580	612.0208	PIPE UNDERDRAIN UNPERFORATED 8-INCH	LF	50.000	25.000	25.000
1590	612.0210	PIPE UNDERDRAIN UNPERFORATED 10-INCH	LF	50.000	25.000	25.000
1600	612.0212	PIPE UNDERDRAIN UNPERFORATED 12-INCH	LF	50.000	25.000	25.000
1610	612.0700	DRAIN TILE EXPLORATION	LF	2,000.000	1,000.000	1,000.000

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LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	1030-11-77 QUANTITY	1030-11-78 QUANTITY
1620	612.0806	APRON ENDWALLS FOR UNDERDRAIN REINFORCED CONCRETE 6-INCH	EACH	4.000	2.000	2.000
1630	614.0230	STEEL THRIE BEAM	LF	137.500		137.500
1640	614.0396	GUARDRAIL MOW STRIP ASPHALT	SY	1,530.000	1,200.000	330.000
1650	614.0920	SALVAGED RAIL	LF	3,827.000	1,852.000	1,975.000
1660	614.0925	SALVAGED GUARDRAIL END TREATMENTS	EACH	8.000	3.000	5.000
1670	614.2300	MGS GUARDRAIL 3 **P**	LF	2,173.000	2,023.000	150.000
1690	614.2610	MGS GUARDRAIL TERMINAL EAT	EACH	8.000	5.000	3.000
1700	616.0100	FENCE WOVEN WIRE (HEIGHT) 001. 4-FT MANDATORY SUB	LF	22,269.000	13,423.000	8,846.000
1720	616.0700.S	FENCE SAFETY MANDATORY SUB	LF	4,000.000	2,000.000	2,000.000
1770	618.0100	MAINTENANCE AND REPAIR OF HAUL ROADS (PROJECT) 016. 1030-11-77	EACH	1.000	1.000	
1780	618.0100	MAINTENANCE AND REPAIR OF HAUL ROADS (PROJECT) 017. 1030-11-78	EACH	1.000		1.000
1790	619.1000	MOBILIZATION	EACH	0.400	0.200	0.200
1810	621.0100	LANDMARK REFERENCE MONUMENTS	EACH	44.000	36.000	8.000
1820	623.0200	DUST CONTROL SURFACE TREATMENT	SY	133,750.000	65,100.000	68,650.000
1830	624.0100	WATER	MGAL	1,200.000	570.000	630.000
1840	625.0500	SALVAGED TOPSOIL **P**	SY	178,000.000	81,000.000	97,000.000
1850	627.0200	MULCHING **P** MANDATORY SUB	SY	178,000.000	81,000.000	97,000.000
1860	628.1104	EROSION BALES MANDATORY SUB	EACH	2,799.000	1,274.000	1,525.000
1870	628.1504	SILT FENCE MANDATORY SUB	LF	10,549.000	5,099.000	5,450.000
1880	628.1520	SILT FENCE MAINTENANCE MANDATORY SUB	LF	10,549.000	5,099.000	5,450.000
1890	628.1905	MOBILIZATIONS EROSION CONTROL MANDATORY SUB	EACH	4.000	2.000	2.000
1900	628.1910	MOBILIZATIONS EMERGENCY EROSION CONTROL MANDATORY SUB	EACH	4.000	2.000	2.000
1920	628.2004	EROSION MAT CLASS I TYPE B MANDATORY SUB	SY	84,321.000	32,616.000	51,705.000
1930	628.2027	EROSION MAT CLASS II TYPE C MANDATORY SUB	SY	15,811.000	6,053.000	9,758.000
1940	628.6510	SOIL STABILIZER TYPE B	ACRE	6.000		6.000
1950	628.7005	INLET PROTECTION TYPE A MANDATORY SUB	EACH	89.000	36.000	53.000
1960	628.7015	INLET PROTECTION TYPE C MANDATORY SUB	EACH	23.000	8.000	15.000
1980	628.7504	TEMPORARY DITCH CHECKS MANDATORY SUB	LF	2,675.000	1,525.000	1,150.000
1990	628.7555	CULVERT PIPE CHECKS MANDATORY SUB	EACH	81.000	40.000	41.000
2000	628.7560	TRACKING PADS	EACH	20.000	10.000	10.000
2010	628.7570	ROCK BAGS MANDATORY SUB	EACH	10.000	5.000	5.000
2020	629.0210	FERTILIZER TYPE B MANDATORY SUB	CWT	132.000	61.600	70.400
2030	630.0120	SEEDING MIXTURE NO. 20 MANDATORY SUB	LB	5,240.000	2,760.000	2,480.000
2040	630.0140	SEEDING MIXTURE NO. 40 MANDATORY SUB	LB	700.000	140.000	560.000
2060	630.0200	SEEDING TEMPORARY MANDATORY SUB	LB	7,750.000	2,970.000	4,780.000
2130	633.5200	MARKERS CULVERT END MANDATORY SUB	EACH	77.000	33.000	44.000
2150	634.0614	POSTS WOOD 4X6-INCH X 14-FT MANDATORY SUB	EACH	10.000		10.000
2160	634.0616	POSTS WOOD 4X6-INCH X 16-FT MANDATORY SUB	EACH	67.000	23.000	44.000
2180	634.0814	POSTS TUBULAR STEEL 2X2-INCH X 14-FT MANDATORY SUB	EACH	2.000	1.000	1.000
2190	634.0816	POSTS TUBULAR STEEL 2X2-INCH X 16-FT MANDATORY SUB	EACH	1.000		1.000
2200	637.0202	SIGNS REFLECTIVE TYPE II MANDATORY SUB	SF	517.790	156.880	360.910
2220	638.2102	MOVING SIGNS TYPE II MANDATORY SUB	EACH	12.000	5.000	7.000
2230	638.2602	REMOVING SIGNS TYPE II MANDATORY SUB	EACH	47.000	21.000	26.000

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LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	1030-11-77 QUANTITY	1030-11-78 QUANTITY
2240	638.3000	REMOVING SMALL SIGN SUPPORTS MANDATORY SUB	EACH	43.000	17.000	26.000
2260	642.6001	FIELD LABORATORY	EACH	0.400	0.200	0.200
2270	643.0100	TRAFFIC CONTROL (PROJECT) 012. 1030-11-77 MANDATORY SUB	EACH	1.000	1.000	
2280	643.0100	TRAFFIC CONTROL (PROJECT) 014. 1030-11-78 MANDATORY SUB	EACH	1.000		1.000
2330	643.0300	TRAFFIC CONTROL DRUMS MANDATORY SUB	DAY	6,589.000	3,652.000	2,937.000
2340	643.0420	TRAFFIC CONTROL BARRICADES TYPE III MANDATORY SUB	DAY	5,702.000	2,288.000	3,414.000
2360	643.0705	TRAFFIC CONTROL WARNING LIGHTS TYPE A MANDATORY SUB	DAY	11,403.000	4,576.000	6,827.000
2390	643.0900	TRAFFIC CONTROL SIGNS MANDATORY SUB	DAY	14,602.000	6,005.000	8,597.000
2400	643.0920	TRAFFIC CONTROL COVERING SIGNS TYPE II MANDATORY SUB	EACH	22.000	14.000	8.000
2410	643.1000	TRAFFIC CONTROL SIGNS FIXED MESSAGE MANDATORY SUB	SF	112.000	56.000	56.000
2420	643.1050	TRAFFIC CONTROL SIGNS PCMS MANDATORY SUB	DAY	48.000	24.000	24.000
2460	645.0111	GEOTEXTILE FABRIC TYPE DF SCHEDULE A **P**	SY	1,645.000	860.000	785.000
2470	645.0120	GEOTEXTILE FABRIC TYPE HR **P**	SY	35.000		35.000
2490	646.0106	PAVEMENT MARKING EPOXY 4-INCH MANDATORY SUB	LF	92,378.000	46,966.000	45,412.000
2520	646.0805.S	PAVEMENT MARKING OUTFALL MANDATORY SUB	EACH	4.000	2.000	2.000
2560	646.0883.S	PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH MANDATORY SUB	LF	4,356.000	1,799.000	2,557.000
2570	646.0900.S	PAVEMENT MARKING LATE SEASON MANDATORY SUB	LF	47,877.000		47,877.000
2660	648.0100	LOCATING NO-PASSING ZONES **P** MANDATORY SUB	MI	5.220	2.600	2.620
2780	690.0150	SAWING ASPHALT	LF	1,033.000	335.000	698.000
2800	ASP.1T0A	ON-THE-JOB TRAINING APPRENTICE AT $5.00/HR	HRS	320.000	160.000	160.000
2810	ASP.1T0G	ON-THE-JOB TRAINING GRADUATE AT $5.00/HR	HRS	1,200.000	600.000	600.000
2830	SPV.0035	SPECIAL 003. ABANDONING SEWER SPECIAL	CY	256.000	17.000	239.000
2880	SPV.0060	SPECIAL 006. SALVAGING EXISTING ACCESS GATE	EACH	1.000		1.000
2890	SPV.0060	SPECIAL 009. EROSION CONTROL FILTER BAGS MANDATORY SUB	EACH	25.000	15.000	10.000
2900	SPV.0060	SPECIAL 012. EXPOSING EXISTING UTILITY MANDATORY SUB	EACH	8.000	4.000	4.000
2950	SPV.0060	SPECIAL 024. SEALING PIPE STUBS	EACH	2.000	1.000	1.000
2960	SPV.0060	SPECIAL 027. MANHOLES 10-FT DIAMETER	EACH	4.000	2.000	2.000
2970	SPV.0060	SPECIAL 030. SILT FENCE DRAINAGE OUTLET EROSION CONTROL FILTER BAGS MANDATORY SUB	EACH	20.000	10.000	10.000
2980	SPV.0060	SPECIAL 031. SILT FENCE DRAINAGE OUTLET ROCK BAGS MANDATORY SUB	EACH	20.000	10.000	10.000
2990	SPV.0060	SPECIAL 060. SURFACE SETTLEMENT MARKERS	EACH	3.000	3.000	
3000	SPV.0060	SPECIAL 062. ABANDONMENT OF GEOTECHNICAL INSTRUMENTATION	EACH	1.000	1.000	
3030	SPV.0060	SPECIAL 077. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC WORDS MANDATORY SUB	EACH	8.000	4.000	4.000
3040	SPV.0060	SPECIAL 080. RECONSTRUCTING MANHOLES SPECIAL	EACH	2.000		2.000

DATE 12DEC12 E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	1030-11-77 QUANTITY	1030-11-78 QUANTITY
3050	SPV.0060	SPECIAL 081. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 2 MANDATRY SUB	EACH	8.000	4.000	4.000
3060	SPV.0060	SPECIAL 084. INLETS MEDIAN 4 GRATE MODIFIED	EACH	2.000	2.000	
3120	SPV.0075	SPECIAL 002. BOULDER OBSTRUCTIONS	HRS	5.000	5.000	
3150	SPV.0090	SPECIAL 063. MICRO TUNNELING STORM SEWER REINFORCED CONCRETE PIPE CLASS V 54-INCH	LF	243.000	243.000	
3160	SPV.0090	SPECIAL 080. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC STOP LINE 18-IN MNDTRY SUB	LF	407.000	159.000	248.000
3190	SPV.0105	SPECIAL 001. FIELD OFFICE FIXED	LS	0.400	0.200	0.200
3200	SPV.0105	SPECIAL 012. SURVEY PROJECT 1030-11-77	LS	1.000	1.000	
3210	SPV.0105	SPECIAL 013. PAVEMENT CLEANUP PROJECT 1030-11-77	LS	1.000	1.000	
3220	SPV.0105	SPECIAL 014. SURVEY PROJECT 1030-11-78	LS	1.000		1.000
3230	SPV.0105	SPECIAL 015. PAVEMENT CLEANUP PROJECT 1030-11-78	LS	1.000		1.000
3380	SPV.0180	SPECIAL 001. GEOGRID REINFORCEMENT	SY	163,500.000	79,600.000	83,900.000
3400	SPV.0180	SPECIAL 002. GEOTEXTILE FABRIC TYPE FF MANDATORY SUB	SY	360.000	180.000	180.000
3440	SPV.0195	SPECIAL 002. BASE AGGREGATE DENSE 1 1/4-INCH SPECIAL	TON	121,690.000	59,060.000	62,630.000
3450	SPV.0195	SPECIAL 006. SELECT SUBBASE	TON	76,700.000	37,300.000	39,400.000
3460	SPV.0200	SPECIAL 001. MANHOLES 4-FT DIAMETER SPECIAL	VF	140.000	70.000	70.000

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CLEARING AND GRUBBING

CATEGORY	ROADWAY	STA	TO	STA	OFFSET	201.0105 CLEARING STA.	201.0120 CLEARING I.D.	201.0205 GRUBBING STA.	201.0220 GRUBBING I.D.
1000	EAST FRONTAGE ROAD								
		5897+00	-	5898+00	RT	1	--	1	--
		5902+00	-	5909+00	RT	7	--	7	--
		5913+00	-	5914+00	RT	1	--	1	--
		5923+00	-	5927+00	RT	4	--	4	--
		5934+00	-	5936+00	RT	2	--	2	--
		5937+00	-	5939+00	RT	2	--	2	--
		5940+82			RT	--	11	--	11
		5941+75			RT	--	8	--	8
		5943+46			RT	--	8	--	8
		5944+17			RT	--	9	--	9
		5962+00	-	5973+00	RT	11	--	11	--
		5974+00	-	5979+00	RT	5	--	5	--
		5987+00	-	5988+00	RT	1	--	1	--
		5989+00	-	6000+00	RT	11	--	11	--
		6001+00	-	6004+00	RT	3	--	3	--
		3008+00	-	3010+00	RT	2	--	2	--
		3021+00	-	3022+00	RT	1	--	1	--
		3023+09			RT	--	16	--	16
		SUBTOTAL				51	52	51	52
1000	WEST FRONTAGE ROAD								
		4893+00	-	4903+00	LT	10	--	10	--
		4906+86			LT		5		5
		4906+99			LT	--	12	--	12
		4908+81			LT	--	11	--	11
		4716+70			LT	--	10	--	10
		4918+00	-	4922+00	LT	4	--	4	--
		4933+00	-	4934+00	LT	1	--	1	--
		4940+00	-	4941+00	LT	1	--	1	--
		4945+78			LT	--	4	--	4
		4950+20			LT	--	16	--	16
		4950+61			LT	--	13	--	13
		4951+04			LT	--	20	--	20
		4951+00	-	4952+00	LT	1	--	1	--
		4960+00	-	4963+00	LT	3	--	3	--
		4963+29			LT	--	16	--	16
		4971+90			LT	--	5	--	5
		4971+95			LT	--	5	--	5
		4972+04			LT	--	5	--	5
		4973+31			LT	--	5	--	5
		4974+38			LT	--	5	--	5
		4974+39			LT	--	5	--	5
		4977+48			LT	--	8	--	8
		4978+00	-	4979+00	LT	1	--	1	--
		4980+96			LT	--	12	--	12
		4980+97			LT	--	13	--	13
		4981+03			LT	--	13	--	13
		4981+04			LT	--	9	--	9
		4986+00	-	4988+00	LT	2	--	2	--
		5001+00	-	5008+00	LT	7	--	7	--
		5009+00	-	5011+00	LT	2	--	2	--
		5012+00		5013+00	LT	1	--	1	--
		5016+00	-	5020+00	LT	4	--	4	--
		2023+33			LT	--	10	--	10
	EVANS LANE								
		81+00	-	82+00	LT	1	--	1	--
		81+00	-	82+00	RT	1	--	1	--
		SUBTOTAL				39	202	39	202
		TOTAL				90	254	90	254

REMOVING SMALL PIPE CULVERTS

CATEGORY	ROADWAY	STATION	LOCATION	DESCRIPTION	203.0100 EACH
1000	EAST FRONTAGE ROAD				
		5901+60	40' RT	18" X 32' CPCM	1
		5914+15	19' RT	18" X 22' CPCM	1
		5927+00	45' RT	24" X 50' CP	1
		5927+05	38' LT	24" X 64' CP	1
		5927+96	23' RT	15" X 33' CPCM	1
		5928+65	22' RT	15" X 46' CPCM	1
		5929+28	22' RT	15" X 135' CPCM	1
		5932+50	20' RT	18" X 55' CPCM	1
		5932+88	20' RT	18" X 27' CPCM	1
		5934+90	20' RT	18" X 34' CPCM	1
		5937+17	30' RT	18" X 43' CPCM	1
		5941+15	25' RT	18" X 46' CPCM	1
		5943+86	27' RT	18" X 31' CPCM	1
		5953+30	27' RT	18" X 39' CPCM	1
		5979+69	34' RT	18" X 24' CPCM	1
		5981+13	34' RT	18" X 37' CPCM	1
		5997+06	20' RT	15" X 20' CPCM	1
		3023+77	25' RT	18" X 46' CPCM	1
		3028+66	LT/RT	54" X 96' CPCM	1
	GOLF ROAD				
		70+05	CL	24" X 74' CP	1
		70+97	CL	24" X 75' CP	1
				SUBTOTAL =	21

REMOVING MANHOLES

CATEGORY	ROADWAY	STATION	LOCATION	204.0210 EACH
1000	WEST FRONTAGE ROAD			
		4902+91	27' LT	1
		4955+30	31' LT	1
	TOTAL			2

ABANDONING SEWER SPECIAL

CATEGORY	ROADWAY	STATION	SIZE IN	LENGTH FT	TYPE	SPV.0035.003 CY
1000	EAST FRONTAGE ROAD					
		6000+14	36	16	SSPRC	17
	WEST FRONTAGE ROAD					
		IH94 996+75	36	228	CMCP	239
	TOTALS					255

REMOVING SMALL PIPE CULVERTS CONT'D

CATEGORY	ROADWAY	STATION	LOCATION	DESCRIPTION	203.0100 EACH
1000	WEST FRONTAGE ROAD				
		4897+10	7' LT	30" X 50' CPCM	1
		4900+31	2' RT	18" X 26' CPCM	1
		4900+75	2' RT	18" X 22' CPCM	1
		4902+85	RT	48" X 36' CPCM	1
		4928+28	21' LT	18" X 42' CPCM	1
		4929+60	21' LT	18" X 34' CPCM	1
		4931+47	18' LT	18" X 46' CPCM	1
		4933+30	24' LT	18" X 46' CPCM	1
		4934+84	LT/RT	42" X 71' CPCM	1
		4938+30	25' LT	18" X 45' CPCM	1
		4940+47	20' LT	18" X 45' CPCM	1
		4941+85	LT/RT	42" X 58' CPCM	1
		4943+65	15' LT	18" X 52' CPCM	1
		4943+65	8' LT	18" X 26' CPCM	1
		4945+38	8' LT	18" X 27' CPCM	1
		4948+75	22' LT	18" X 34' CPCM	1
		4950+84	25' LT	18" X 30' CPCM	1
		4951+20	LT/RT	48" X 72' CPCM	1
		4955+50	LT/RT	48" X 70' CPCM	2
		4959+60	LT	18" X 50' CPCM	1
		4960+96	21' LT	18" X 30' CPCM	1
		4963+05	21' LT	24" X 22' CPCM	2
		4966+55	21' LT	18" X 87' CPCM	1
		4973+89	3' LT	18" X 76' CPCM	1
		4983+92	33' LT	18" X 30' CPCM	1
		4996+82	LT/RT	36" X 58' CPCM	1
		5001+98	15' LT	18" X 31' CPCM	1
		5003+45	9' LT	18" X 31' CPCM	1
		5006+75	2' LT	18" X 29' CPCM	1
		5009+74	1' RT	18" X 29' CPCM	1
		5012+07	6' RT	18" X 30' CPCM	1
		5016+24	4' RT	18" X 39' CPCM	1
		5016+24	50' LT	18" X 28' CPCM	1
		5020+24	32' RT	42" X 67' CPCM	1
		2026+90	6' LT - 47' RT	54" X 64' CPCM	1
	EVANS LANE				
		80+91	20' LT	12" X 23' CPCM	1
		81+12	20' RT	12" X 20' CPCM	1
		81+90	20' LT	12' X 22' CPCM	1
		81+94	20' RT	15" X 22' CPCM	1
	KRAUT ROAD				
		47+24	CL	30" X 63' CPCM	1
	GOLF ROAD				
		67+84	CL	24" X 77' CP	1
	3 MILE ROAD				
		28+99	CL	24" X 54' CP	1
				SUBTOTAL =	44
	TOTALS				65

10301177-00008RDAPERM

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CPM PROGRESS SCHEDULE

CATEGORY	PROJECT	108.4400 EACH
1000	1030-11-77	0.2
	1030-11-78	0.2
	TOTAL	0.4

REMOVE PAVEMENT

CATEGORY	FROM STA	TO STA	204.0100 REMOVING PAVEMENT SY	204.0125 REMOVING ASPHALTIC SURFACE MILLING TON
1000	EAST FRONTAGE ROAD			
	5901+23	5926+45	5,996	2,931
	5927+78	6005+79	18,828	8,661
	3003+69	3031+00	6,650	3,059
	TOTAL		31,474	14,650

REMOVING OLD STRUCTURES

CATEGORY	ROADWAY	STATION	DESCRIPTION	ITEM 203.0200 .027 LS	.028 LS	.029 LS	.030 LS	.031 LS	.032 LS	.033 LS	.034 LS	.035 LS	.036 LS
1000	EAST FRONTAGE ROAD												
		5906+05	3.0' X 3.0' CONC BOX X 61'	1	–	–	–	–	–	–	–	–	–
		5921+18	4.5' x 4.0' CONC BOX X 58'	–	1	–	–	–	–	–	–	–	–
		5938+28	2.5' X 2.5' CONC BOX X 59'	–	–	1	–	–	–	–	–	–	–
		5945+27	2.0' X 3.0' CONC BOX X 58'	–	–	–	1	–	–	–	–	–	–
		5954+68	4.0' X 6.0' CONC BOX X 60'	–	–	–	–	1	–	–	–	–	–
		5960+22	4.5' X 6.0' CONC BOX X 100'	–	–	–	–	–	1	–	–	–	–
		5979+62	2.0' X 2.0' CONC BOX X 75'	–	–	–	–	–	–	1	–	–	–
		6000+15	2.0' X 2.0' CONC BOX X 61'	–	–	–	–	–	–	–	1	–	–
		3007+01	2.0' X 2.0' CONC BOX X 76'	–	–	–	–	–	–	–	–	1	–
		3020+39	2.0' X 3.0' CONC BOX X 74'	–	–	–	–	–	–	–	–	–	1
	TOTALS			1	1	1	1	1	1	1	1	1	1

REMOVING INLETS

CATEGORY	ROADWAY	STATION	OFFSET	204.0220 EACH
1000	EAST FRONTAGE ROAD			
		5954+72	52.1' LT	1
		5959+56	51.6' LT	1
		5960+18	51.4' LT	1
			SUBTOTAL =	3
	WEST FRONTAGE ROAD			
		4917+77	48.7' RT	1
			SUBTOTAL =	1
	TOTALS			4

REMOVING STORM SEWER

CATEGORY	ROADWAY	STATION		204.0245.008 REMOVING STORM SEWER 18-INCH LF	204.0245.022 REMOVING STORM SEWER 29X45-INCH LF
1000	EAST FRONTAGE ROAD				
		5959+56 - 5960+18	LT	63	–
			SUBTOTAL	63	–
	WEST FRONTAGE ROAD				
		4895+15 - 4895+22	LT (AEW)	–	7
			SUBTOTAL	–	7
	TOTALS			63	7

REMOVING FENCE

CATEGOR	ROADWAY	FROM STA	APPROX OFFSET	TO STA	APPROX OFFSET	204.0170 LF
1000	EAST FRONTAGE ROAD					
		5898+00	57.7' LT	5926+43	46.0' LT	2,857
		5927+58	46.0' LT	6005+82	52.5' LT	7,823
		3003+58	58.1' LT	3031+00	14.5' LT	2,744
					SUBTOTAL	13,424
	WEST FRONTAGE ROAD					
		4892+38	81.34' RT	4905+00	63.9' RT	1,264
		4913+00	56.85' RT	4923+00	51.07' RT	1,004
		4925+00	55.5' RT	4935+50	54.4' RT	1,051
		4940+38	56.3' RT	4941+74	55.9' RT	137
		4951+00	50.9' RT	5001+28	46.0' RT	5,028
		2026+00	59.2' RT	2028+00	57.4' RT	200
					SUBTOTAL	8,684
	TOTAL					22,108

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EXCAVATION

Division	From/To Station	Location	Common Excavation (1)	(item # 205.0100)	Salvaged/Unusable Pavement Material (4)	Available Material (5)	Reduced EBS in Fill (6)	Expanded EBS Backfill (7)	Unexpanded Fill (8)	Expanded Fill (9)	Mass Ordinate +/- (10)	Estimated Disposal Area Outside The 1:1 Slope (13)	Waste (11)	Select Borrow
			Cut (2)	EBS Excavation (3)			Factor 0.80	Factor 1.30		Factor 1.20				(item #208.1100)
1	5897+00 to 3031+00	E. FRONTAGE RD	71,098	3,555	7,164	67,488	2,844	4,621	13,675	16,410	51,078	600	61,797	0
		EBS AT DITCH FILLS	0	4,812	0	4,812	3,849	6,255	0	0	4,812	0	9,623	0
	49+75 to 52+00	KRAUT ROAD	766	38	0	804	31	50	256	307	497	0	38	50
	69+73 to 72+00	GOLF ROAD	910	45	0	955	36	59	210	252	703	0	748	59
Division 1 Subtotal			72,772	8,450	7,164	74,059	6,760	10,985	14,141	16,969	57,090	600	72,207	109
2	4891+90 to 2030+25	W. FRONTAGE RD	101,986	5,099	0	107,085	4,079	6,629	27,933	33,520	73,565	400	78,664	0
		EBS AT DITCH FILLS	0	5,371	0	5,371	4,297	6,983	0	0	5,371	0	10,743	0
	81+60 to 82+75	EVANS LANE	966	48	0	1,014	39	63	21	25	988	0	1,037	63
	46+16 to 48+31	KRAUT ROAD	754	38	0	792	30	49	156	187	605	0	643	49
	8+70 to 9+75	2-MILE ROAD	601	30	0	631	24	39	59	71	560	0	590	39
	67+55 to 68+00	GOLF ROAD	178	9	0	187	7	12	0	0	187	0	195	12
	18+00 to 19+76	NICHOLAS ROAD	288	14	0	303	12	19	321	385	-82	0	14	19
	28+00 to 29+75	3-MILE ROAD	721	36	0	757	29	47	434	521	237	0	36	47
Division 2 Subtotal			105,494	10,646	0	116,140	8,517	13,840	28,924	34,709	81,430	400	91,922	228
Grand Total			178,266	19,096	7,164	190,199	15,277	24,825	43,065	51,678	138,520	1,000	164,129	337
			Total Common Exc	197,362										

1) Common Excavation is the sum of the Cut and EBS Excavation columns. Item number 205.0100. EBS for local roads is estimated to be 20% of Common Excavation Quantity
2) Salvaged/Unusable Pavement Material is included in Cut unless existing pavement is below subgrade. (Existing Pavement EBS)
3) EBS Excavation to be backfilled with Select Borrow.
4) Existing pavement volume (CY), not available for fill
5) Available Material = Cut - Salvaged/Unusable Pavement Material (0 if negative)
6) Reduced EBS in Fill - For Information Only. Excavated EBS materials and excess topsoil are unusable between IH 94 and the frontage Rd; EBS material and excess topsoil can be used outside the 1:1 slope on the non-IH 94 side of the frontage Rd. EBS in Fill Reduction factor = 0.8
7) Expanded EBS Backfill - This is to be filled with Select Borrow material (Item number 208.1100). EBS Backfill Factor = 1.3.
8) Unexpanded Fill = Fill from Endarea Earthwork Volumes + Existing Pavement EBS
9) Fill Factor = 1.20, Expanded Fill = Unexpanded Fill x 1.20
10) Mass Ordinate = (Available Material) - (Expanded Fill). Plus quantity indicates an excess of material within the Division. Minus quantity indicates a shortage of material within the Division.
11) Waste = EBS + Salvaged/Unusable Pavement Material + (Mass Ordinate if positive within Division)
12) Not used
13) Estimated Area Outside the 1:1 Slope where excavated EBS or excess topsoil could be placed is provided For Information Only

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REMOVING ASPHALTIC SURFACE

CATEGORY		FROM STA	TO STA	* 204.0110 SY
1000	WEST FRONTAGE ROAD			
		4891+90	4892+42	165
	TOTAL			165

*ADDITIONAL QUANITIES SHOWN ELSEWHERE

EXISTING ACCESS GATE

CATEGORY	STA	* 204.0110 REMOVING ASPHALTIC SURFACE SY	SPV0060.006 SALVAGING EXISTING ACCESS GATE EACH
1000	WEST FRONTAGE ROAD		
	4902+68	50	1
	TOTAL	50	1

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

BASE AGGREGATE ITEMS

CATEGORY	ROADWAY	STATION	STATION	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	311.0110 BREAKER RUN TON	SPV.0195.002 BASE AGGREGATE DENSE 11/4-INCH SPECIAL TON	SPV.0195.006 SELECT SUBBASE TON	SPV.0180.001 GEOGRID REINFORCEMENT SY
1000	EAST FRONTAGE ROAD							
		5897+00	- 6006+38	3,440	–	39,660	26,199	56,140
		3002+95	- 3031+00	810	–	10,060	6,606	14,155
		DRIVEWAYS		370	–	–	–	–
		RELIEF TRENCHES		–	–	–	158	–
	KRAUT ROAD							
		46+16	- 49+00	60	–	810	455	974
		DRIVEWAYS		20	–	–	–	–
		RELIEF TRENCHES		–	–	–	3	–
	GOLF ROAD							
		69+73	- 72+00	80	–	820	478	1,024
	UNDISTRIBUTED			720	6,050	7,710	3,401	7,306
	SUBTOTAL			5,500	6,050	59,060	37,300	79,600
1000	WEST FRONTAGE ROAD							
		4891+90	- 5020+49	3,580	–	46,880	30,695	65,775
		2020+43	- 2030+25	240	–	4,070	2,656	5,692
		DRIVEWAYS		1,070	–	–	–	–
		RELIEF TRENCHES		–	–	–	160	–
	KRAUT ROAD							
		49+00	- 52+20	80	–	1,060	421	903
	EVANS LANE							
		80+75	- 82+75	60	–	690	427	914
		DRIVEWAYS		36	–	–	–	–
	2 MILE ROAD							
		8+70	- 9+75	40	–	400	278	595
		RELIEF TRENCHES		–	–	–	3	–
	NICHOLAS ROAD							
		18+00	- 19+76	50	–	620	400	856
		RELIEF TRENCHES		–	–	–	3	–
	GOLF ROAD							
		67+55	- 68+50	30	–	90	167	357
		RELIEF TRENCHES		–	–	–	2	–
	3 MILE ROAD							
		28+00	- 29+75	60	–	650	521	1,115
		RELIEF TRENCHES		–	–	–	3	–
	UNDISTRIBUTED			792	2,600	8,170	3,665	7,692
	SUBTOTAL			6,038	2,600	62,630	39,400	83,900
	TOTAL			11,538	8,650	121,690	76,700	163,500

ASPHALTIC ITEMS

CATEGORY	ROADWAY	STATION		STATION	455.0105 ASPHALTIC MATERIAL PG58-28 TON	455.0605 TACK COAT GAL	460.1103 HMA PAVEMENT TYPE E-3 TON	460.2000 INCENTIVE DENSITY HMA PAVEMENT DOL	465.0315 ASPHALTIC FLUMES SY
1000	EAST FRONTAGE ROAD								
		5897+00	-	3031+00	1,033	1,361	17,211	11,016	29
	GOLF ROAD								
		69+73	-	72+00	16	20	255	164	7
	KRAUT ROAD								
		49+75	-	52+20	11	14	178	114	--
		51+22	-	51+49	--	--	--	--	14
		SUBTOTAL			1,060	1,395	17,644	11,294	50
0100	WEST FRONTAGE ROAD								
		4891+90	-	2030+25	1,071	1,410	17,842	11,419	29
	KRAUT ROAD								
		46+16	-	48+31	14	18	223	143	--
	GOLF ROAD								
		67+25	-	68+00	6	8	99	64	--
	EVANS LANE								
		80+75	-	82+75	14	17	219	141	--
	2 MILE ROAD								
		8+70	-	9+75	9	11	145	93	14
	NICHOLAS ROAD								
		18+00	-	19+76	13	16	205	132	14
	3 MILE ROAD								
		28+00	-	29+75	16	21	260	167	14
		SUBTOTAL			1,143	1,501	18,993	12,159	72
		TOTAL			2,203	2,896	36,637	23,453	122

ASPHALTIC DRIVEWAYS

CATEGORY	STATION	OFFSET	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON
1000	EAST FRONTAGE ROAD		
	5930+00	RT	14
	5932+56	RT	16
	5932+89	RT	2
	5934+90	RT	3
	5937+18	RT	3
	5941+17	RT	21
	5943+86	RT	15
	5953+30	RT	3
	5977+82	RT	2
	5979+69	RT	2
	5984+76	RT	14
	3023+78	RT	2
	KRAUT ROAD		
	51+56	LT	10
	UNDISTRIBUTED		11
	SUBTOTAL		118
	WEST FRONTAGE ROAD		
	4893+16	LT	2
	4893+63	LT	2
	4893+92	LT	2
	4900+30	LT	27
	4900+74	LT	21
	4907+20	LT	2
	4916+44	LT	2
	4928+27	LT	34
	4929+59	LT	12
	4931+46	LT	8
	4938+29	LT	2
	4941+47	LT	2
	4943+26	LT	3
	4943+69	LT	2
	4945+38	LT	8
	4948+74	LT	23
	4950+84	LT	55
	4959+60	LT	2
	4960+96	LT	9
	4963+05	LT	2
	4966+56	LT	100
	4973+89	LT	74
	4980+90	LT	4
	4983+94	LT	2
	5001+98	LT	1
	5003+44	LT	1
	5006+75	LT	17
	5009+74	LT	4
	5010+36	LT	13
	5012+07	LT	16
	5016+24	LT	30
	EVANS LANE		
	80+91	LT	10
	81+12	RT	7
	81+93	RT	12
	81+90	LT	15
	UNDISTRIBUTED		53
	SUBTOTAL		579
	TOTAL		696

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3

INCENTIVE IRI RIDE

CATEGORY	ROADWAY	440.4410.S INCENTIVE IRI RIDE DOL
1000	EAST FRONTAGE ROAD	10,412
	WEST FRONTAGE ROAD	10,488
	TOTAL	20,900

CONCRETE ITEMS

CATEGORY	ROADWAY	STATION		STATION	OFFSET	601.0553 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D LF
1000	EAST FRONTAGE ROAD					
		5927+79	-	5931+16	LT	338
		5927+58	-	5933+25	RT	568
		5998+75	-	6005+34	LT	659
		3003+73	-	3008+26	LT	454
	KRAUT ROAD					149
	GOLF ROAD					149
	SUBTOTAL					2,317
1000	WEST FRONTAGE ROAD					
		4924+31	-	4929+92	LT	562
		4990+00	-	5002+24	RT	1,224
		5014+25	-	5020+00	LT	575
	EVANS LANE					135
	KRAUT ROAD					150
	2 MILE ROAD					151
	NICHOLAS ROAD					147
	3 MILE ROAD					151
	SUBTOTAL					3,095
	TOTALS					5,412

DRAIN TILE

CATEGORY	LOCATION	608.0512 STORM SEWER PIPE REINFORCED CONCRETE CLASS V 12-INCH LF	* 611.3902 INLETS MEDIAN 2 GRATE"" EACH	* 611.0642 INLET COVERS TYPE MS** EACH	SPV.0200.001 MANHOLES 4 FT DIAMETER SPECIAL VF	* 611.0535 MANHOLE COVERS TYPE J-SPECIAL EACH	* 611.0612 INLET COVERS TYPE C*** EACH	* 612.0206 PIPE UNDERDRAIN UNPERFORATED 6-INCH LF	612.0208 8-INCH LF	612.0210 10-INCH LF	612.0212 12-INCH LF	612.0700 DRAIN TILE EXPLORATION LF
1000	EAST FRONTAGE ROAD											
	UNDISTRIBUTED	300	1	2	70	8	--	25	25	25	25	1,000
	SUBTOTAL	300	1	2	70	8	--	25	25	25	25	1,000
	WEST FRONTAGE ROAD											
	UNDISTRIBUTED	300	--	--	70	8	1	25	25	25	25	1,000
	SUBTOTAL	300	--	--	70	8	1	25	25	25	25	1,000
	TOTALS	600	1	2	140	16	1	50	50	50	50	2,000

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

** TO BE USED ON EAST FRONTAGE RD AT STA 5905+93 RT

***TO BE USED ON WEST FRONTAGE RD AT STA 4954+95 LT

DRIVEWAY CULVERT ITEMS

CATEGORY	ROADWAY	STATION	(1) OFFSET	(1) ELEVATION	SLOPE	DOWN STATION ENDWALL ELEVATION	DOWN STATION END OF ENDWALL	UP STATION ENDWALL ELEVATION	UP STATION END OF ENDWALL	520.0115 15-INCH LF	520.0118 18-INCH LF	520.0124 CULVERT PIPE CLASS III 24-INCH LF	520.0130 30-INCH LF	521.1515 APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS STEEL 15-INCH 6 TO 1 EACH	* 521.1518 APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS STEEL 18-INCH 6 TO 1 EACH	* 521.1524 APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS STEEL 24-INCH 6 TO 1 EACH	521.1530 APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS STEEL 30-INCH 6 TO 1 EACH	STEEL THICKNESS INCHES
1000	EAST FRONTAGE ROAD																	
		5901+60	40.0' RT	743.90	0.7%	744.10	5901+31	743.70	5901+89	–	50	–	–	–	2	–	–	0.064
		5934+90	33.5' RT	743.60	0.9%	743.87	5934+58	743.33	5935+22	–	–	50	–	–	–	2	–	0.064
		5937+18	39.0' RT	740.67	1.3%	741.17	5936+79	740.16	5937+57	–	–	–	58	–	–	–	2	0.079
		5941+15	39.0' RT	738.46	0.5%	738.64	5940+79	738.28	5941+51	–	–	58	–	–	–	2	–	0.064
		5943+86	40.0' RT	736.45	0.8%	736.70	5943+54	736.20	5944+18	–	–	50	–	–	–	2	–	0.064
		5953+30	36.0' RT	731.92	0.5%	732.07	5952+97	731.77	5953+63	–	–	52	–	–	–	2	–	0.064
		5953+30	42.0' RT	731.92	0.5%	732.07	5953+00	731.77	5953+60	–	–	46	–	–	–	2	–	0.064
		5979+69	41.0' RT	764.67	0.8%	764.45	5979+40	764.88	5979+98	–	–	44	–	–	–	2	–	0.064
		5997+06	30.0' RT	748.06	2.1%	748.47	5996+86	747.64	5997+26	–	–	–	20	–	–	–	2	0.079
		3023+77	31.0' RT	738.29	0.4%	738.20	3023+54	738.37	3024+00	–	38	–	–	–	2	–	–	0.064
	KRAUT ROAD																	
		51+57	21.0' LT	747.18	0.3%	747.25	51+30	747.10	51+84	50	–	–	–	2	–	–	–	0.064
	SUBTOTALS									50	88	300	78	2	4	12	4	
	WEST FRONTAGE ROAD																	
		4931+47	33.0' LT	744.09	2.1%	744.59	4931+23	743.58	4931+71	–	40	–	–	–	2	–	–	0.064
		4938+30	45.5' LT	734.69	1.7%	735.18	4938+00	734.20	4938+60	–	–	46	–	–	–	2	–	0.064
		4940+47	45.0' LT	733.81	0.2%	733.86	4940+16	733.76	4940+78	–	–	48	–	–	–	2	–	0.064
		4959+60	45.0' LT	730.60	4.5%	729.63	4959+37	731.62	4959+83	–	38	–	–	–	2	–	–	0.064
		4960+96	38.0' LT	734.36	1.9%	734.00	4960+77	734.71	4961+15	–	–	24	–	–	–	2	–	0.064
		4963+05	29.7' LT	738.05	0.7%	737.94	4962+89	738.16	4963+21	–	–	18	–	–	–	2	–	0.064
		4966+55	30.0' LT	744.18	2.0%	743.42	4966+17	744.94	4966+93	–	68	–	–	–	2	–	–	0.064
		4973+89	29.7' LT	764.93	0.6%	764.75	4973+57	765.10	4974+21	–	56	–	–	–	2	–	–	0.064
		4980+90	30.0' LT	768.53	0.2%	768.62	4980+51	768.43	4981+29	–	70	–	–	–	2	–	–	0.064
		4983+92	29.6' LT	765.08	1.0%	765.29	4983+71	764.87	4984+13	–	34	–	–	–	2	–	–	0.064
		5001+98	40.2' LT	742.49	0.2%	742.44	5001+80	742.53	5002+16	–	–	22	–	–	–	2	–	0.064
		5003+45	41.8' LT	743.15	0.4%	743.05	5003+18	743.25	5003+72	–	–	40	–	–	–	2	–	0.064
		5006+75	31.0' LT	745.45	0.6%	745.31	5006+52	745.58	5006+98	–	38	–	–	–	2	–	–	0.064
		5009+74	30.0' LT	748.03	0.2%	747.98	5009+53	748.07	5009+95	–	34	–	–	–	2	–	–	0.064
		5010+36	30.0' LT	748.22	0.2%	748.16	5010+12	748.27	5010+60	–	40	–	–	–	2	–	–	0.064
		5012+07	29.6' LT	747.90	0.4%	748.00	5011+81	747.80	5012+33	–	44	–	–	–	2	–	–	0.064
		5016+24	48.5' LT	739.49	1.3%	739.91	5015+90	739.07	5016+58	–	–	54	–	–	–	2	–	0.064
	EVANS LANE																	
		80+91	24.5' LT	752.85	3.7%	753.60	80+70	752.10	81+12		34	–	–	–	2	–	–	0.064
		81+12	24.5' RT	751.40	3.0%	752.20	80+85	750.60	81+39		46	–	–	–	2	–	–	0.064
	SUBTOTALS									–	540	253	–	–	24	14	–	
	TOTALS									50	629	553	78	2	28	26	4	

NOTE
1) STATION OFFSETS SHOWN ARE TO THE APRON END OF APRON ENDWALLS.

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE
** CATEGORY 6100

10301177-00008RDAPERM

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CROSS CULVERT ITEMS

CAT	ROADWAY	INLET END STATION	INLET END OFFSET	INLET END ELEV	DISCHARGE END STATION	DISCHARGE END OFFSET	DISCHARGE END ELEV	DISCHARGE END STATION	SLOPE	522.0115 CULVERT PIPE REINFORCED CONCRETE CLASS III 15-INCH LF	522.0124 CULVERT PIPE REINFORCED CONCRETE CLASS III 24-INCH LF	522.0324 CULVERT PIPE REINFORCED CONCRETE CLASS IV 24-INCH LF	523.0129 CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-III 29 x 45-INCH LF	523.0134 CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-III 34 x 53-INCH LF	523.0419 CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-IV 19 x 30-INCH LF	523.0429 CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-IV 29 x 45-INCH LF	* 522.1015 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 15-INCH EACH	* 522.1024 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH EACH	523.0519 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 19 x 30-INCH EACH	* 523.0529 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 29 x 45-INCH EACH	* 523.0534 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 34 x 53-INCH EACH	** 633.5200 MARKERS CULVERT END EACH
1000																							
	EAST FRONTAGE ROAD																						
		5906+13	46.5' LT	736.50	5905+96	47.5' RT	736.21	5906+28	0.29%	–	–	–	–	80	–	–	–	–	–	–	2	2
		5910+00	31.0' LT	739.00	5910+00	35.0' RT	738.35	5910+00	0.98%	–	–	54	–	–	–	–	–	2	–	–	–	2
		5926+26	36.5' LT	746.84	5926+29	47.5' RT	745.00	5926+24	2.19%	–	–	–	–	–	72	–	–	–	2	–	–	2
		5938+24	32.5' RT	740.00	5938+24	37.5' LT	739.60	5938+24	0.57%	–	–	–	–	–	–	56	–	–	–	2	–	2
		5938+34	35.0' RT	740.00	5938+34	40.0' LT	739.60	5938+34	0.57%	–	–	–	–	–	–	56	–	–	–	2	–	2
		5945+28	37.0' RT	735.48	5945+28	45.0' LT	735.12	5945+28	0.44%	–	–	–	68	–	–	–	–	–	–	2	–	2
		5957+25	32.5' LT	732.53	5957+25	33.5' RT	732.24	5957+25	0.44%	–	54	–	–	–	–	–	–	2	–	–	–	2
		5998+50	32.0' LT	743.00	5998+50	32.0' RT	742.80	5998+50	0.31%	–	–	52	–	–	–	–	–	2	–	–	–	2
	GOLF ROAD																						
		71+02	51.5' LT	742.60	71+02	62.5' RT	742.10	71+02	0.42%	–	–	–	–	–	102	–	–	–	2	–	–	2
	SUBTOTALS (I.D. 1030-11-77)									–	54	106	68	80	174	112	–	6	4	6	2	18
	WEST FRONTAGE ROAD																						
		4977+50	56.0' LT	765.00	4977+50	48.0' RT	764.00	4977+50	0.96%	–	92	–	–	–	–	–	–	2	–	–	–	2
	3 MILE ROAD																						
		28+75	31.5' LT	739.60	28+75	30.5' RT	739.32	28+75	0.45%	–	–	50	–	–	–	–	–	2	–	–	–	2
	KRAUT ROAD																						
		47+12	45.5' LT	749.16	47+08	41.5' RT	747.90	47+17	1.43%	76	–	–	–	–	–	–	2	–	–	–	–	2
	SUBTOTALS (I.D. 1030-11-78)									76	92	50	–	–	–	–	2	4	–	–	–	6
	TOTALS									76	146	156	68	80	174	112	2	10	4	6	2	24

NOTES
1) STATION OFFSETS SHOWN ARE TO THE APRON END OF APRON ENDWALLS.
2) GRANULAR BACKFILL IS INCIDENTAL TO THE COST OF THE PIPE
3) PIPE LENGTH IS FROM END OF PIPE TO END OF PIPE AND DOES NOT INCLUDE LENGTH OF APRON ENDWALL.

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE
** CATEGORY 6100

REPLACED WITH
REVISED SHEET 217
4/23/2013

PROJECT NO: 1030-11-77/78	HWY: IH 94	COUNTY: RACINE	MISCELLANEOUS QUANTITIES	SHEET 217 HSL	E

3

CROSS CULVERT ITEMS

CAT	ROADWAY	STATION	INLET END OFFSET	INLET END ELEV	INLET END STATION	DISCHARGE END OFFSET	DISCHARGE END ELEV	DISCHARGE END STATION	SLOPE	522.0115 CULVERT PIPE REINFORCED CONCRETE CLASS III 15-INCH LF	522.0124 CULVERT PIPE REINFORCED CONCRETE CLASS III 24-INCH LF	522.0324 CULVERT PIPE REINFORCED CONCRETE CLASS IV 24-INCH LF	523.0129 CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-III 29 x 45-INCH LF	523.0134 CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-III 34 x 53-INCH LF	523.0419 CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-IV 19 x 30-INCH LF	523.0429 CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-IV 29 x 45-INCH LF	* 522.1015 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 15-INCH EACH	* 522.1024 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH EACH	523.0519 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 19 x 30-INCH EACH	* 523.0529 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 29 x 45-INCH EACH	* 523.0534 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 34 x 53-INCH EACH	** 633.5200 MARKERS CULVERT END EACH
1000																							
	EAST FRONTAGE ROAD																						
		5906+13	46.5' LT	736.50	5906+28	47.5' RT	736.21	5905+96	0.29%	–	–	–	–	80	–	–	–	–	–	–	2	2
		5910+00	31.0' LT	739.00	5910+00	35.0' RT	738.35	5910+00	0.98%	–	–	54	–	–	–	–	–	2	–	–	–	2
		5926+26	36.5' LT	746.84	5926+29	47.5' RT	745.00	5926+24	2.19%	–	–	–	–	–	72	–	–	–	2	–	–	2
		5938+24	32.5' RT	740.00	5938+24	37.5' LT	739.60	5938+24	0.57%	–	–	–	–	–	–	56	–	–	–	2	–	2
		5938+34	35.0' RT	740.00	5938+34	40.0' LT	739.60	5938+34	0.57%	–	–	–	–	–	–	56	–	–	–	2	–	2
		5945+28	37.0' RT	735.48	5945+28	45.0' LT	735.12	5945+28	0.44%	–	–	–	68	–	–	–	–	–	–	2	–	2
		5957+25	32.5' LT	732.53	5957+25	33.5' RT	732.24	5957+25	0.44%	–	54	–	–	–	–	–	–	2	–	–	–	2
		5998+50	32.0' LT	743.00	5998+50	32.0' RT	742.80	5998+50	0.31%	–	–	52	–	–	–	–	–	2	–	–	–	2
	GOLF ROAD																						
		71+02	51.5' LT	742.60	71+02	62.5' RT	742.10	71+02	0.42%	–	–	–	–	–	102	–	–	–	2	–	–	2
	SUBTOTALS (I.D. 1030-11-77)									–	54	106	68	80	174	112	–	6	4	6	2	18
	WEST FRONTAGE ROAD																						
		4977+50	56.0' LT	765.00	4977+50	48.0' RT	764.00	4977+50	0.96%	–	92	–	–	–	–	–	–	2	–	–	–	2
	3 MILE ROAD																						
		28+75	31.5' LT	739.60	28+75	30.5' RT	739.32	28+75	0.45%	–	–	50	–	–	–	–	–	2	–	–	–	2
	KRAUT ROAD																						
		47+12	45.5' LT	749.16	47+08	41.5' RT	747.90	47+17	1.43%	76	–	–	–	–	–	–	2	–	–	–	–	2
	SUBTOTALS (I.D. 1030-11-78)									76	92	50	–	–	–	–	2	4	–	–	–	6
	TOTALS									76	146	156	68	80	174	112	2	10	4	6	2	24

NOTES
1) STATION OFFSETS SHOWN ARE TO THE APRON END OF APRON ENDWALLS.
2) GRANULAR BACKFILL IS INCIDENTAL TO THE COST OF THE PIPE
3) PIPE LENGTH IS FROM END OF PIPE TO END OF PIPE AND DOES NOT INCLUDE LENGTH OF APRON ENDWALL.

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE
** CATEGORY 6100

1 - Revised 4/23/13

STORM SEWER ITEMS

CATEGORY	STRUCTURE NUMBER	STATION	OFFSET		611.2005 MANHOLES 5-FT DIAMETER EACH	611.2006 MANHOLES 6-FT DIAMETER EACH	611.2007 MANHOLES 7-FT DIAMETER EACH	611.2008 MANHOLES 8-FT DIAMETER EACH	611.3004 INLETS 4-FT DIAMETER EACH	611.3230 INLETS 2x3-FT EACH	611.3901 INLETS MEDIAN 1 GRATE EACH	* 611.3902 INLETS MEDIAN 2 GRATE EACH	SPV.0060.084 INLETS MEDIAN 4 GRATE MODIFIED EACH	SPV.0060.027 MANHOLES 10-FT DIAMETER EACH	* 611.0535 MANHOLE COVERS TYPE J-SPECIAL EACH	611.0612 INLET COVERS TYPE C EACH	611.0627 INLET COVERS TYPE HM EACH	* 611.0642 INLET COVERS TYPE MS EACH	RIM OR FLANGE ELEV	STR DEPTH FT	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE
1000																									
	EAST FRONTAGE ROAD																								
	512A	5921+19	34.00	LT	1	–	–	–	–	–	–	–	–	–	–	1	–	–	745.31	3.53	512A	512B	740.70	740.05	0.87%
	512B	5921+19	47.00	RT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A	512B	OUTFALL	740.05	740.00	0.83%
	512C	5931+00	18.00	RT	–	–	–	–	1	–	–	–	–	–	–	–	1	–	749.25	2.84	512C	512D	745.58	745.12	0.46%
	512D	5932+00	29.00	RT	–	–	–	–	–	–	1	–	–	–	–	–	1	–	748.90	3.78	512D	512E	745.12	744.52	0.46%
	512E	5933+35	34.70	RT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A	512E	OUTFALL	744.52	744.50	0.50%
	512	5954+71	36.00	RT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A	512	514	730.78	730.20	0.84%
	513	5954+45	39.70	LT	–	–	–	–	–	–	–	1	–	–	–	–	4	732.00	N/A	513	514	731.50	731.03	1.81%
	514	5954+71	39.70	LT	–	–	–	1	–	–	–	–	–	–	1	–	–	–	734.90	3.62	514	EX. CP	730.20	727.70	20.83%
	515	5954+85	36.00	RT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A	515	516	730.78	730.20	0.85%
	515A	5955+11	39.70	LT	–	–	–	–	–	–	–	–	1	–	–	–	4	732.00	N/A	515A	516	731.50	731.03	1.81%
	516	5954+85	39.70	LT	–	–	–	1	–	–	–	–	–	–	1	–	–	–	734.90	3.62	516	514	730.20	730.20	0.00%
	517	5960+28	52.50	RT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A	517	518	728.00	727.77	0.26%
	518	5960+00	39.20	LT	–	1	–	–	–	–	–	–	–	–	1	–	–	–	735.00	6.15	518	520A	727.77	727.77	0.00%
	519	5960+48	53.80	RT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A	519	519A	728.00	727.77	0.24%
	519A	5960+21	45.00	LT	–	–	1	–	–	–	–	–	–	–	1	–	–	–	734.15	5.30	519A	EX. CP	727.77	727.00	7.70%
	520	5960+38	56.80	RT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A	520	520A	728.00	727.77	0.24%
	520A	5960+10	42.20	LT	–	1	–	–	–	–	–	–	–	–	1	–	–	–	734.70	5.85	520A	EX. CP	727.77	727.00	7.70%
	521	5960+50	45.00	LT	–	–	–	–	–	–	1	–	–	–	–	–	1	732.00	2.64	521	519A	729.36	729.19	1.00%
	522	6000+30	34.50	RT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A	522	523	738.08	737.70	0.58%
	523	6000+30	37.00	LT	–	–	–	–	–	–	–	–	–	1	1	–	–	–	745.00	6.55	523	433A	737.70	736.54	0.48%
	523A	6000+61	45.50	LT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	ENDWALL	N/A	523A	523	739.50	739.38	0.48%
	524	6000+14	34.50	RT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A	524	525	738.08	737.75	0.51%
	525	6000+14	37.00	LT	–	–	1	–	–	–	–	–	–	–	1	–	–	–	745.00	6.50	525	523	737.75	737.70	0.31%
	525A	5999+74	45.40	LT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	ENDWALL	N/A	525A	525	740.00	739.83	0.50%
	525B	6000+14	53.00	LT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A	N/A	525	525B	737.75	736.00	10.94%
	526	6002+13	29.00	LT	–	–	–	–	–	–	–	1	–	–	–	–	2	742.50	2.29	526	527	740.21	740.16	0.50%
	527	6002+13	18.00	LT	–	–	–	–	1	–	–	–	–	–	–	1	–	742.94	2.03	527	528	740.08	739.86	0.51%
	527A	6001+93	18.00	LT	–	–	–	–	1	–	–	–	–	–	–	1	–	742.95	1.94	527A	527	740.18	740.08	0.50%
	527B	6002+33	18.00	LT	–	–	–	–	1	–	–	–	–	–	–	1	–	742.96	1.95	527B	527	740.18	740.08	0.50%
	528	6002+13	29.50	RT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A	528	OUTFALL	739.92	739.90	0.33%
	529	6004+00	33.00	LT	–	–	–	–	–	–	1	–	–	–	–	–	1	743.40	2.16	529	530	741.24	741.13	0.79%
	530	6004+00	18.00	LT	–	–	–	–	–	1	–	–	–	–	–	1	–	743.90	1.94	530	531	741.13	740.85	0.53%
	531	6004+00	40.00	RT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A	531	OUTFALL	740.85	740.82	0.50%
	532A	3004+50	40.00	LT	–	–	–	–	–	–	1	–	–	–	–	–	1	747.65	3.35	532A	533	744.30	744.20	0.83%
	532B	3004+00	50.00	LT	–	–	–	–	–	–	–	–	–	–	–	–	–	744.80	N/A	532B	532A	744.80	744.30	1.14%
	532	3004+50	28.00	LT	–	–	–	–	–	1	–	–	–	–	–	1	–	748.12	3.09	532	533	744.20	743.85	0.59%
	533	3004+50	35.50	RT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A	533	OUTFALL	743.98	743.91	1.17%
	534	3020+41	42.00	RT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A	534	536	732.70	732.12	0.81%
	535	3020+19	38.00	LT	–	–	–	–	–	–	–	1	–	–	–	–	2	735.31	2.37	535	536	732.94	732.78	1.00%
	536	3020+35	38.00	LT	–	–	–	–	–	–	–	1	–	–	–	–	2	735.50	3.38	536	536A	732.12	732.06	0.43%
	536A	3020+35	52.00	LT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A	536A	EXISTING	732.06	EXISTING	N/A
	537	3020+51	42.00	RT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A	537	539	732.70	732.12	0.81%
	538	3020+62	38.00	LT	–	–	–	–	–	–	–	1	–	–	–	–	2	735.31	2.37	538	539	732.94	732.78	1.00%
	539	3020+46	38.00	LT	–	–	–	–	–	–	–	1	–	–	–	–	2	735.50	3.38	539	536	732.12	732.12	0.00%
	539A	3020+45	45.40	LT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	539	539A	732.12	732.09	0.37%
	540	3029+00	51.00	RT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	540	541	738.50	736.80	1.57%
	541	3028+37	44.80	LT	–	–	–	–	–	–	–	–	–	1	1	–	–	–	743.80	5.92	541	EXISTING	736.80	EXISTING	N/A
	542	3028+54	45.60	LT	–	–	–	–	–	–	–	1	–	–	–	–	2	742.00	3.95	542	541	738.05	737.90	0.88%
TOTAL					1	2	2	2	4	2	4	6	2	2	8	1	6	24							

NOTES

1) STATIONS ARE TO THE CENTER OF STRUCTURES OR TO THE APRON END OF ENDWALLS.
   OFFSETS ARE TO THE FLANGE LINE FOR STRUCTURES IN THE ROADWAY WITH INLET GRATES, AND TO THE CENTER OF STRUCTURE FOR FIELD INLETS AND MANHOLES WITH SOLID LIDS.
2) PIPE LENGTHS ARE MEASURED TO THE CENTER OF STRUCTURES OR THE END OF PIPE AT APRON ENDWALLS (DOES NOT INCLUDE LENGTH OF AEW)
3) RIM ELEVATIONS ARE GIVEN AT THE FLANGE LINE FOR INLET GRATES OR THE CENTER OF THE MANHOLE COVER FOR MANHOLES
4) STRUCTURE DEPTH = RIM ELEVATION - INVERT - CASTING HEIGHT - ADJUSTMENT
   CASTING HEIGHT = 0.75 FT FOR J AND C COVERS; 0.5 FT FOR HM; 0.83 FT FOR TYPE V; 0.67 FT FOR TYPE B; 0 FT FOR TYPE MS COVERS
   ADJUSTMENT (RINGS) = 0.33 FT FOR B, V, J, C, HM AND S COVERS; 0 FT FOR TYPE MS COVERS

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE
** CATEGORY 6100

CONTINUED ON NEXT PAGE

CONTINUED FROM PREVIOUS PAGE

STORM SEWER ITEMS

CATEGORY	STRUCTURE NUMBER	STATION	OFFSET		608.0415 15-INCH LF	608.0418 18-INCH LF	608.0424 24-INCH LF	608.0430 30-INCH LF	608.0436 36-INCH LF	608.0442 42-INCH LF	608.0454 54-INCH LF	610.0129 29x45-INCH LF	610.0134 34x53-INCH LF	610.0138 38x60-INCH LF	* 522.1015 15-INCH EACH	522.1024 24-INCH EACH	522.1036 36-INCH EACH	522.1042 42-INCH EACH	* 521.1518 AEW FOR CULV. PIPE SLOPED SIDE DRAINS STEEL 18-INCH 6 TO 1 EACH	* 523.0529 29x45-INCH EACH	* 523.0534 34x53-INCH EACH	523.0538 38x60-INCH EACH	SPV.0060.024 SEALING PIPE STUBS EACH	520.8000 CONCRETE COLLARS FOR PIPE EACH	SPV.0090.063 MICRO TUNNELING STORM SEWER REINF. CONC. PIPE CLASS V 54-INCH LF	* ** 633.5200 MARKERS CULVERT END EACH	NOTES
1000					STORM SEWER PIPE REINFORCED CONCRETE CLASS IV							STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-III			APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE					APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL						MICRO TUNNELING STORM SEWER		
	EAST FRONTAGE ROAD																										
	512A	5921+19	34.00	LT	–	–	75	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	CONNECT TO EXIST. 30" CMP
	512B	5921+19	47.00	RT	–	–	–	–	–	–	–	–	–	–	–	1	–	–	–	–	–	–	–	–	–	1	
	512C	5931+00	18.00	RT	–	101	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
	512D	5932+00	29.00	RT	–	131	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
	512E	5933+35	34.70	RT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	1	–	–	–	–	–	–	–	PIPE END OF AEW IS AT 5933+31
	512	5954+71	36.00	RT	–	–	–	–	–	–	–	–	69	–	–	–	–	–	–	–	1	–	–	–	–	1	
	513	5954+45	39.70	LT	–	–	26	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	RIM ELEV AT LOW END OF GRATES
	514	5954+71	39.70	LT	–	–	–	–	–	12	–	–	–	–	–	–	–	–	–	–	–	–	1	–	–	–	CONNECT TO EXIST. 48" CMP
	515	5954+85	36.00	RT	–	–	–	–	–	–	–	–	68	–	–	–	–	–	–	–	1	–	–	–	–	1	
	515A	5955+11	39.70	LT	–	–	26	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	RIM ELEV AT LOW END OF GRATES
	516	5954+85	39.70	LT	–	–	14	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
	517	5960+28	52.50	RT	–	–	–	–	–	88	–	–	–	–	–	–	–	1	–	–	–	–	–	–	–	1	
	518	5960+00	39.20	LT	–	–	10	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
	519	5960+48	53.80	RT	–	–	–	–	–	95	–	–	–	–	–	–	–	1	–	–	–	–	–	–	–	1	
	519A	5960+21	45.00	LT	–	–	–	–	–	10	–	–	–	–	–	–	–	–	–	–	–	–	1	–	–	–	CONNECT TO EXIST. 48" CMP
	520	5960+38	56.80	RT	–	–	–	–	–	95	–	–	–	–	–	–	–	1	–	–	–	–	–	–	–	–	
	520A	5960+10	42.20	LT	–	–	–	–	–	10	–	–	–	–	–	–	–	–	–	–	–	–	1	–	–	–	CONNECT TO EXIST. 48" CMP
	521	5960+50	45.00	LT	–	17	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	OFFSET PIPE 1' LT AT 519A
	522	6000+30	34.50	RT	–	–	–	–	–	–	–	65	–	–	–	–	–	–	–	1	–	–	–	–	–	1	
	523	6000+30	37.00	LT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	243	–	
	523A	6000+61	45.50	LT	–	–	25	–	–	–	–	–	–	–	–	1	–	–	–	–	–	–	–	–	–	1	
	524	6000+14	34.50	RT	–	–	–	–	–	–	–	65	–	–	–	–	–	–	–	1	–	–	–	–	–	1	
	525	6000+14	37.00	LT	–	–	–	16	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
	525A	5999+74	45.40	LT	–	–	34	–	–	–	–	–	–	–	–	1	–	–	–	–	–	–	–	–	–	1	
	525B	6000+14	53.00	LT	–	–	–	–	16	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	1	–	–	CONNECT TO EXIST. 36" CMP
	526	6002+13	29.00	LT	10	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
	527	6002+13	18.00	LT	43	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
	527A	6001+93	18.00	LT	20	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
	527B	6002+33	18.00	LT	20	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
	528	6002+13	29.50	RT	–	–	–	–	–	–	–	–	–	–	1	–	–	–	–	–	–	–	–	–	–	1	
	529	6004+00	33.00	LT	14	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
	530	6004+00	18.00	LT	53	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
	531	6004+00	40.00	RT	–	–	–	–	–	–	–	–	–	–	1	–	–	–	–	–	–	–	–	–	–	1	
	532A	3004+50	40.00	LT	12	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
	532B	3004+00	50.00	LT	44	–	–	–	–	–	–	–	–	–	1	–	–	–	–	–	–	–	–	–	–	1	
	532	3004+50	28.00	LT	59	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
	533	3004+50	35.50	RT	–	–	–	–	–	–	–	–	–	–	1	–	–	–	–	–	–	–	–	–	–	1	
	534	3020+41	42.00	RT	–	–	–	–	72	–	–	–	–	–	–	–	1	–	–	–	–	–	–	–	–	1	PIPE END OF AEW IS 36' RT
	535	3020+19	38.00	LT	–	16	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	SLOPE GRATES UP FROM S. TO N.
	536	3020+35	38.00	LT	–	–	–	–	14	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
	536A	3020+35	52.00	LT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	1	–	–	–	CONNECT TO EXIST. 42" CMP
	537	3020+51	42.00	RT	–	–	–	–	72	–	–	–	–	–	–	–	1	–	–	–	–	–	–	–	–	–	PIPE END OF AEW IS 36' RT
	538	3020+62	38.00	LT	–	16	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	SLOPE GRATES UP FROM N. TO S.
	539	3020+46	38.00	LT	–	–	11	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
	539A	3020+45	45.40	LT	–	–	–	–	8	–	–	–	–	–	–	–	–	–	–	–	–	1	–	–	–	–	SEAL PIPE AT 539A
	540	3029+00	51.00	RT	–	–	–	–	–	–	–	–	–	108	–	–	–	–	–	–	1	–	–	–	–	1	
	541	3028+37	44.80	LT	–	–	–	–	–	–	14	–	–	–	–	–	–	–	–	–	–	–	1	–	–	–	CONNECT TO EXIST. 54" CMP
	542	3028+54	45.60	LT	–	–	17	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
TOTAL					275	281	238	16	182	310	14	130	137	108	4	3	2	3	1	2	2	1	1	6	243	15	

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE
** CATEGORY 6100

CONTINUED ON NEXT PAGE

STORM SEWER ITEMS

CATEGORY 1000	STRUCTURE NUMBER	STATION	OFFSET FT		611.2004 MANHOLES 4-FT DIAMETER EACH	611.2005 MANHOLES 5-FT DIAMETER EACH	611.2006 MANHOLES 6-FT DIAMETER EACH	611.2007 MANHOLES 7-FT DIAMETER EACH	611.2008 MANHOLES 8-FT DIAMETER EACH	SPV.0060.027 MANHOLES 10-FT DIAMETER EACH	611.3004 INLETS 4-FT DIAMETER EACH	611.3230 INLETS 2x3-FT EACH	611.3901 INLETS MEDIAN 1 GRATE EACH	611.3902 INLETS MEDIAN 2 GRATE EACH	611.3903 INLETS MEDIAN 3 GRATE EACH	611.3904 INLETS MEDIAN 4 GRATE EACH	* 611.0535 MANHOLE COVERS TYPE J-SPECIAL EACH	* 611.0612 INLET COVERS TYPE C EACH	611.0627 INLET COVERS TYPE HM EACH	611.0642 INLET COVERS TYPE MS EACH	RIM OR FLANGE ELEV	STR DEPTH FT	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE
	WEST FRONTAGE ROAD																										
	400A	4892+45	31.00	LT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	755.60	EX.	400A	400B	747.22 EX	746.37 EX	0.50%
	400B	4895+15	22.00	LT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	400B	400C	746.37	745.60	0.50%
	400C	4896+71	20.60	LT	–	–	–	1	–	–	–	–	–	–	–	–	1	–	–	–	750.12	4.52	400C	403	745.60	745.43	0.50%
	406A	4899+85	39.00	LT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A	406A	406B	743.00	741.20	2.90%
	406B	4900+53	39.00	LT	–	–	–	–	–	–	–	–	–	1	–	–	–	–	–	2	745.00	3.80	406B	406C	741.20	740.35	1.89%
	406C	4900+98	44.00	LT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A	406C	OUTFALL	740.35	740.25	1.67%
	407	4902+49	43.70	RT	–	–	–	–	–	–	–	–	–	1	–	–	–	–	–	2	739.20	2.00	407	408	737.20	736.96	0.67%
	408	4902+85	39.20	RT	–	–	–	–	1	–	–	–	–	–	–	–	1	–	–	–	743.00	5.22	408	EX. CP	736.70	EX.	N/A
	409	4903+10	43.00	LT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	409	408	737.18	736.96	0.28%
	410	4904+28	32.90	RT	–	–	–	–	–	–	–	–	–	1	–	–	–	–	–	2	741.25	2.50	410	412	738.75	738.55	0.80%
	411	4904+77	32.90	RT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	411	412	738.35	738.00	1.40%
	412	4904+52	32.90	RT	–	1	–	–	–	–	–	–	–	–	–	–	1	–	–	–	741.87	2.79	412	413	738.00	737.65	0.54%
	413	4904+52	38.00	LT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A	413	OUTFALL	737.65	737.61	0.57%
	415	4934+81	45.80	RT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A	415	416	737.00	736.44	0.76%
	416	4934+81	42.00	LT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A	416	OUTFALL	736.44	736.40	0.57%
	416A	4934+91	38.30	RT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A	416A	417	737.00	736.44	0.76%
	417	4934+91	42.00	LT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A	417	OUTFALL	736.44	736.40	0.57%
	419	4941+85	50.00	RT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A	419	420	733.99	733.59	0.49%
	420	4941+85	39.00	LT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A	420	OUTFALL	733.59	733.55	0.57%
	420A	4943+00	40.00	LT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A	420A	421B	733.30	733.03	0.56%
	420E	4948+00	30.00	LT	–	1	–	–	–	–	–	–	–	–	–	–	–	1	–	–	734.40	3.04	420E	420G	730.28	729.52	0.51%
	420F	4949+50	37.50	LT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A	420F	420G	730.71	730.00	5.92%
	420G	4949+50	20.00	LT	–	–	1	–	–	–	–	–	–	–	–	–	1	–	–	–	735.77	5.17	420G	420H	729.52	728.30	0.49%
	420H	4952+00	20.00	LT	–	1	–	–	–	–	–	–	–	–	–	–	1	–	–	–	734.50	5.26	420H	420J	728.16	728.05	0.31%
	420J	4952+35	42.00	LT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A	420J	OUTFALL	728.05	728.00	0.71%
	421B	4943+50	30.00	LT	–	1	–	–	–	–	–	–	–	–	–	–	–	1	–	–	738.20	4.62	421B	421C	732.50	731.78	0.48%
	421C	4945+00	30.00	LT	–	1	–	–	–	–	–	–	–	–	–	–	–	1	–	–	735.80	2.94	421C	420E	731.78	730.28	0.50%
	424	4951+85	56.00	RT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	424	424A	728.73	728.62	0.79%
	424A	4951+97	37.50	RT	–	–	–	–	1	–	–	–	–	–	–	–	1	–	–	–	733.60	3.90	424A	425	728.62	727.87	0.89%
	424B	4951+71	33.20	RT	–	–	–	–	–	–	–	–	–	–	–	1	–	–	–	4	731.40	N/A	424B	424A	731.03	729.95	4.15%
	425	4952+47	39.00	LT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A	425	OUTFALL	727.87	727.80	1.00%
	426	4952+04	56.00	RT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A	426	427	728.73	727.87	0.91%
	427	4952+59	39.00	LT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A	427	OUTFALL	727.87	727.80	1.00%
	428	4955+55	50.00	RT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A	428	428B	727.28	727.21	0.41%
	428A	4955+50	33.00	RT	–	–	–	–	–	–	–	–	–	–	1	–	–	–	–	3	729.90	N/A	428A	428B	729.80	728.51	5.37%
	428B	4955+44	30.20	RT	–	–	–	1	–	–	–	–	–	–	–	–	1	–	–	–	732.19	3.90	428B	429	727.21	727.00	0.30%
	429	4955+15	42.00	LT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A	429	OUTFALL	N/A	727.00	N/A
	429A	4955+35	42.00	LT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A	429A	OUTFALL	N/A	727.00	N/A
	429B	4955+75	51.00	RT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A	429B	429A	727.15	727.05	0.12%
	430	4956+07	54.00	RT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	430	430B	727.16	727.13	0.27%
	430A	4956+25	33.00	RT	–	–	–	–	–	–	–	–	–	–	1	–	–	–	–	3	729.90	N/A	430A	430B	729.80	728.50	5.00%
	430B	4956+00	33.00	RT	–	–	–	1	–	–	–	–	–	–	–	–	1	–	–	–	732.11	3.90	430B	431	727.13	727.00	0.18%
	431	4955+68	42.00	LT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A	431	OUTFALL	N/A	727.00	N/A
	432	4989+50	33.80	RT	–	–	–	–	–	–	–	–	1	–	–	–	–	–	–	2	747.65	3.11	432	432A	744.54	744.08	0.56%
	432A	4989+50	54.00	LT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A	432A	OUTFALL	744.08	744.05	0.50%

NOTES

1) STATIONS ARE TO THE CENTER OF STRUCTURES OR TO THE APRON END OF ENDWALLS.
   OFFSETS ARE TO THE FLANGE LINE FOR STRUCTURES IN THE ROADWAY WITH INLET GRATES, AND TO THE CENTER OF STRUCTURE FOR FIELD INLETS AND MANHOLES WITH SOLID LIDS.
2) PIPE LENGTHS ARE MEASURED TO THE CENTER OF STRUCTURES OR THE END OF PIPE AT APRON ENDWALLS (DOES NOT INCLUDE LENGTH OF AEW)
3) RIM ELEVATIONS ARE GIVEN AT THE FLANGE LINE FOR INLET GRATES, LOW POINT ON GRATE FOR MEDIAN 3 GRATE & MEDIAN 4 GRATE INLETS, OR THE CENTER OF THE MANHOLE COVER FOR MANHOLES
4) STRUCTURE DEPTH = RIM ELEVATION - INVERT - CASTING HEIGHT - ADJUSTMENT
   CASTING HEIGHT = 0.75 FT FOR J AND C COVERS; 0.5 FT FOR HM AND S COVERS; 0.83 FT FOR TYPE V; 0.67 FT FOR TYPE B; 0 FT FOR TYPE MS COVERS
   ADJUSTMENT (RINGS) = 0.33 FT FOR B, V, J, C, HM; 0 FT FOR TYPE MS COVERS
5) FLAT TOP SLAB WITH CENTERED 24" X 36" RECTANGULAR OPENING REQUIRED ON MANHOLES WITH TYPE HM INLET COVERS

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE
** CATEGORY 6100

REPLACED WITH
REVISED SHEET 220
8/15/2013

CONTINUED ON NEXT PAGE

STORM SEWER ITEMS

CATEGORY	STRUCTURE NUMBER	STATION	OFFSET		611.2004 MANHOLES 4-FT DIAMETER EACH	611.2005 MANHOLES 5-FT DIAMETER EACH	611.2006 MANHOLES 6-FT DIAMETER EACH	611.2007 MANHOLES 7-FT DIAMETER EACH	611.2008 MANHOLES 8-FT DIAMETER EACH	SPV.0060.027 MANHOLES 10-FT DIAMETER EACH	611.3004 INLETS 4-FT DIAMETER EACH	611.3230 INLETS 2x3-FT EACH	611.3901 INLETS MEDIAN 1 GRATE EACH	611.3902 INLETS MEDIAN 2 GRATE EACH	611.3903 INLETS MEDIAN 3 GRATE EACH	611.3904 INLETS MEDIAN 4 GRATE EACH	* 611.0535 MANHOLE COVERS TYPE J-SPECIAL EACH	* 611.0612 INLET COVERS TYPE C EACH	611.0627 INLET COVERS TYPE HM EACH	611.0642 INLET COVERS TYPE MS EACH	RIM OR FLANGE ELEV	STR DEPTH FT	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE
1000																											
	WEST FRONTAGE ROAD																										
	400A	4892+45	31.00	LT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	755.60	EX.	400A	400B	747.22 EX	746.37 EX	0.50%
	400B	4895+15	22.00	LT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	400B	400C	746.37	745.60	0.50%
	400C	4896+71	20.60	LT	–	–	–	1	–	–	–	–	–	–	–	–	1	–	–	–	750.12	4.52	400C	403	745.60	745.43	0.50%
	406A	4899+85	39.00	LT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A	406A	406B	743.00	741.20	2.90%
	406B	4900+53	39.00	LT	–	–	–	–	–	–	–	–	–	1	–	–	–	–	–	2	745.00	3.80	406B	406C	741.20	740.35	1.89%
	406C	4900+98	44.00	LT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A	406C	OUTFALL	740.35	740.25	1.67%
	407	4902+49	43.70	RT	–	–	–	–	–	–	–	–	–	1	–	–	–	–	–	2	739.20	2.00	407	408	737.20	736.96	0.67%
	408	4902+85	39.20	RT	–	–	–	–	1	–	–	–	–	–	–	–	1	–	–	–	743.00	5.22	408	EX. CP	736.70	EX.	N/A
	409	4903+10	43.00	LT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	409	408	737.18	736.96	0.28%
	410	4904+28	32.90	RT	–	–	–	–	–	–	–	–	–	1	–	–	–	–	–	2	741.25	2.50	410	412	738.75	738.55	0.80%
	411	4904+77	32.90	RT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	411	412	738.35	738.00	1.40%
	412	4904+52	32.90	RT	–	1	–	–	–	–	–	–	–	–	–	–	1	–	–	–	741.87	2.79	412	413	738.00	737.65	0.54%
	413	4904+52	38.00	LT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A	413	OUTFALL	737.65	737.61	0.57%
	415	4934+81	45.80	RT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A	415	416	737.00	736.44	0.76%
	416	4934+81	42.00	LT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A	416	OUTFALL	736.44	736.40	0.57%
	416A	4934+91	38.30	RT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A	416A	417	737.00	736.44	0.76%
	417	4934+91	42.00	LT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A	417	OUTFALL	736.44	736.40	0.57%
	419	4941+85	50.00	RT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A	419	420	733.99	733.59	0.49%
	420	4941+85	39.00	LT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A	420	OUTFALL	733.59	733.55	0.57%
	420A	4943+00	40.00	LT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A	420A	421B	733.30	733.03	0.56%
	420E	4948+00	30.00	LT	–	1	–	–	–	–	–	–	–	–	–	–	–	1	–	–	734.40	3.04	420E	420G	730.28	729.52	0.51%
	420F	4949+50	37.50	LT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A	420F	420G	730.71	730.00	5.92%
	420G	4949+50	20.00	LT	–	–	1	–	–	–	–	–	–	–	–	–	1	–	–	–	735.77	5.17	420G	420H	729.52	728.30	0.49%
	420H	4952+00	20.00	LT	–	1	–	–	–	–	–	–	–	–	–	–	1	–	–	–	734.50	5.26	420H	420J	728.16	728.05	0.31%
	420J	4952+35	42.00	LT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A	420J	OUTFALL	728.05	728.00	0.71%
	421B	4943+50	30.00	LT	–	1	–	–	–	–	–	–	–	–	–	–	–	1	–	–	738.20	4.62	421B	421C	732.50	731.78	0.48%
	421C	4945+00	30.00	LT	–	1	–	–	–	–	–	–	–	–	–	–	–	1	–	–	735.80	2.94	421C	420E	731.78	730.28	0.50%
	424	4951+85	56.00	RT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	424	424A	728.73	728.62	0.79%
	424A	4951+97	37.50	RT	–	–	–	–	1	–	–	–	–	–	–	–	1	–	–	–	733.60	3.90	424A	425	728.62	727.87	0.89%
	424B	4951+71	33.20	RT	–	–	–	–	–	–	–	–	–	–	–	1	–	–	–	4	731.40	N/A	424B	424A	731.03	729.95	4.15%
	425	4952+47	39.00	LT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A	425	OUTFALL	727.87	727.80	1.00%
	426	4952+04	56.00	RT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A	426	427	728.73	727.87	0.91%
	427	4952+59	39.00	LT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A	427	OUTFALL	727.87	727.80	1.00%
	428	4955+81 4955+55	50.00	RT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A	428	428B	727.28	727.21	0.41%
	428A	4955+50	33.00	RT	–	–	–	–	–	–	–	–	–	–	–	1	–	–	–	3	729.90	N/A	428A	428B	729.80	728.51	5.37%
	428B	4955+74 4955+44	30.0 30.20	RT	–	–	–	1	–	–	–	–	–	–	–	–	1	–	–	–	732.19	3.90	428B	429	727.21	727.00	0.30%
	429	4955+46 4955+15	42.00	LT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A	429	OUTFALL	N/A	727.00	N/A
	429A	4955+58 4955+35	42.00	LT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A	429A	OUTFALL	N/A	727.00	N/A
	429B	4955+93 4955+75	51.00	RT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A	429B	429A	727.15	727.05	0.12%
	430	4956+07	50.0 54.00	RT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	430	430B	727.16	727.13	0.27%
	430A	4956+25	33.00	RT	–	–	–	–	–	–	–	–	–	–	1	–	–	–	3	729.90	N/A	430A	430B	729.80	728.50	5.00%
	430B	4955+98 4956+00	33.00	RT	–	–	–	1	–	–	–	–	–	–	–	–	1	–	–	–	732.11	3.90	430B	431	727.13	727.00	0.18%
	431	4955+68	42.00	LT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A	431	OUTFALL	N/A	727.00	N/A
	432	4989+50	33.80	RT	–	–	–	–	–	–	–	–	1	–	–	–	–	–	–	2	747.65	3.11	432	432A	744.54	744.08	0.56%
	432A	4989+50	54.00	LT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A	432A	OUTFALL	744.08	744.05	0.50%

NOTES

1) STATIONS ARE TO THE CENTER OF STRUCTURES OR TO THE APRON END OF ENDWALLS,
   OFFSETS ARE TO THE FLANGE LINE FOR STRUCTURES IN THE ROADWAY WITH INLET GRATES, AND TO THE CENTER OF STRUCTURE FOR FIELD INLETS AND MANHOLES WITH SOLID LIDS.
2) PIPE LENGTHS ARE MEASURED TO THE CENTER OF STRUCTURES OR THE END OF PIPE AT APRON ENDWALLS (DOES NOT INCLUDE LENGTH OF AEW)
3) RIM ELEVATIONS ARE GIVEN AT THE FLANGE LINE FOR INLET GRATES, LOW POINT ON GRATE FOR MEDIAN 3 GRATE & MEDIAN 4 GRATE INLETS, OR THE CENTER OF THE MANHOLE COVER FOR MANHOLES
4) STRUCTURE DEPTH = RIM ELEVATION - INVERT - CASTING HEIGHT - ADJUSTMENT
   CASTING HEIGHT = 0.75 FT FOR J AND C COVERS; 0.5 FT FOR HM AND S COVERS; 0.83 FT FOR TYPE V; 0.67 FT FOR TYPE B; 0 FT FOR TYPE MS COVERS
   ADJUSTMENT (RINGS) = 0.33 FT FOR B, V, J, C, HM; 0 FT FOR TYPE MS COVERS
5) FLAT TOP SLAB WITH CENTERED 24" X 36" RECTANGULAR OPENING REQUIRED ON MANHOLES WITH TYPE HM INLET COVERS

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE
** CATEGORY 6100

CONTINUED ON NEXT PAGE

CONTINUED FROM PREVIOUS PAGE

STORM SEWER ITEMS

CATEGORY	STRUCTURE NUMBER	STATION	OFFSET FT		608.0415 15-INCH LF	608.0418 18-INCH LF	608.0424 24-INCH LF	608.0430 30-INCH LF	608.0436 36-INCH LF	608.0442 42-INCH LF	610.0124 24x38-INCH LF	610.0129 29x45-INCH LF	610.0134 34x53-INCH LF	610.0138 38x60-INCH LF	610.0429 29x45-INCH LF	521.0342 42- INCH 4 TO 1 EACH	* 522.1015 15-INCH EACH	522.1018 18-INCH EACH	* 522.1024 24-INCH EACH	522.1030 30-INCH EACH	522.1036 36-INCH EACH	522.1042 42-INCH EACH	* 521.1524 24-INCH 6 TO 1 EACH	523.0524 24x38-INCH EACH	523.0529 29x45-INCH EACH	523.0534 34x53-INCH EACH	523.0538 38x60-INCH EACH	SPV.0060.024 SEALING PIPE STUBS EACH	520.8000 CONCRETE COLLARS FOR PIPE EACH	611.9800.S. PIPE GRATES EACH	** 633.5200 MARKERS CULVERT END EACH	NOTES
1000																															
	WEST FRONTAGE ROAD																														
	400A	4892+45	31.00	LT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	RAISE 400A TO RIM ELEV. SHOWN
	400B	4895+15	22.00	LT	–	–	–	–	–	–	–	–	–	–	156	–	–	–	–	–	–	–	–	–	–	–	–	1	–	–	CONNECT TO EXISTING AT 400B
	400C	4896+71	20.80	LT	–	–	–	–	–	–	–	–	–	–	34	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
	406A	4899+85	39.00	LT	–	–	–	–	62	–	–	–	–	–	–	–	–	–	–	–	1	–	–	–	–	–	–	–	–	1	PIPE END OF AEW IS AT 4899+91 LT
	406B	4900+53	39.00	LT	–	–	–	–	45	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	SLOPE GRATES UP FROM WEST TO EAST
	406C	4900+98	44.00	LT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	1	–	–	–	–	–	–	–	–	1	APRON END OF AEW IS AT 4901+04 LT
	407	4902+49	43.70	RT	–	36	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	SLOPE GRATES UP FROM SOUTH TO NORTH
	408	4902+85	39.20	RT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	CONNECT TO EX. 48" CPCM, INV=736.7
	409	4903+10	43.00	LT	–	–	–	–	–	–	–	–	78	–	–	–	–	–	–	–	–	–	–	–	–	–	1	–	–	1	PIPE END OF AEW IS 35' LT
	410	4904+28	32.90	RT	–	–	25	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
	411	4904+77	32.90	RT	–	–	25	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	1	–	–	–	–	–	–	–	
	412	4904+52	32.90	RT	–	–	–	65	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
	413	4904+52	38.00	LT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	1	–	–	–	–	–	–	–	–	–	1	
	415	4934+81	45.80	RT	–	–	–	–	–	–	–	74	–	–	–	–	–	–	–	–	–	–	–	–	2	–	–	–	–	1	
	416	4934+81	42.00	LT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	1	–	–	–	–	1	
	416A	4934+91	38.30	RT	–	–	–	–	–	–	–	74	–	–	–	–	–	–	–	–	–	–	–	–	1	–	–	1	–	–	–	SEAL PIPE AT 416A
	417	4934+91	42.00	LT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	1	–	–	–	–	–	–	
	419	4941+85	50.00	RT	–	–	–	–	–	–	–	82	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	1	–	–	–	CONNECT TO EXISTING AT 419
	420	4941+85	39.00	LT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	1	–	–	–	–	1	
	420A	4943+00	40.00	LT	–	–	–	–	–	–	48	–	–	–	–	–	–	–	–	–	–	–	–	1	–	–	–	–	1	1	
	420E	4948+00	30.00	LT	–	–	–	–	–	–	150	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
	420F	4949+50	37.50	LT	–	12	–	–	–	–	–	–	–	–	–	–	–	1	–	–	–	–	–	–	–	–	–	–	–	1	
	420G	4949+50	20.00	LT	–	–	–	–	–	–	250	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
	420H	4952+00	20.00	LT	–	–	–	–	–	–	35	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
	420J	4952+35	42.00	LT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	1	–	–	–	–	–	1	
	421B	4943+50	30.00	LT	–	–	–	–	–	–	150	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
	421C	4945+00	30.00	LT	–	–	–	–	–	–	300	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
	424	4951+85	56.00	RT	–	–	–	–	–	–	–	–	14	–	–	–	–	–	–	–	–	–	–	–	–	–	1	–	–	1	
	424A	4951+97	37.50	RT	–	–	–	–	–	–	–	–	84	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
	424B	4951+71	33.20	RT	–	26	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
	425	4952+47	39.00	LT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	1	–	–	1	
	426	4952+04	56.00	RT	–	–	–	–	–	–	–	–	94	–	–	–	–	–	–	–	–	–	–	–	–	–	1	–	–	–	
	427	4952+59	39.00	LT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	1	–	–	1	
	428	4955+55	50.00	RT	–	–	–	–	–	17	–	–	–	–	–	–	–	–	–	–	–	1	–	–	–	–	–	–	–	1	
	428A	4955+50	33.00	RT	–	24	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
	428B	4955+44	30.20	RT	–	–	–	–	–	70	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
	429	4955+15	42.00	LT	–	–	–	–	–	–	–	–	–	–	–	1	–	–	–	–	–	–	–	–	–	–	–	–	–	1	
	429A	4955+35	42.00	LT	–	–	–	–	–	–	–	–	–	–	–	1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
	429B	4955+75	51.00	RT	–	–	–	–	–	86	–	–	–	–	–	–	–	–	–	–	–	1	–	–	–	–	–	–	–	–	
	430	4956+07	54.00	RT	–	–	–	–	–	11	–	–	–	–	–	–	–	–	–	–	–	1	–	–	–	–	–	–	–	1	
	430A	4956+25	33.00	RT	–	26	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
	430B	4956+00	33.00	RT	–	–	–	–	–	74	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
	431	4955+68	42.00	LT	–	–	–	–	–	–	–	–	–	–	–	1	–	–	–	–	–	–	–	–	–	–	–	–	–	1	
	432	4989+50	33.80	RT	–	–	82	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
	432A	4989+50	54.00	LT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	1	–	–	–	–	–	–	–	–	–	1	

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE
** CATEGORY 6100

REPLACED WITH
REVISED SHEET 221
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CONTINUED FROM PREVIOUS PAGE

STORM SEWER ITEMS

CATEGORY	STRUCTURE NUMBER	STATION	OFFSET FT		611.2004 MANHOLES 4-FT DIAMETER EACH	611.2005 MANHOLES 5-FT DIAMETER EACH	611.2006 MANHOLES 6-FT DIAMETER EACH	611.2007 MANHOLES 7-FT DIAMETER EACH	611.2008 MANHOLES 8-FT DIAMETER EACH	SPV.0060.027 MANHOLES 10-FT DIAMETER EACH	611.3004 INLETS 4-FT DIAMETER EACH	611.3230 INLETS 2x3-FT EACH	611.3901 INLETS MEDIAN 1 GRATE EACH	611.3902 INLETS MEDIAN 2 GRATE EACH	611.3903 INLETS MEDIAN 3 GRATE EACH	611.3904 INLETS MEDIAN 4 GRATE EACH	611.0535* MANHOLE COVERS TYPE J-SPECIAL EACH	611.0612* INLET COVERS TYPE C EACH	611.0627 INLET COVERS TYPE HM EACH	611.0642 INLET COVERS TYPE MS EACH	RIM OR FLANGE ELEV	STR DEPTH FT	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE
	432B	4992+00	18.00	RT	–	–	–	–	–	–	–	1	–	–	–	–	–	–	1	–	744.67	3.13	432B	432C	740.71	740.19	0.98%
	432C	4992+00	40.00	LT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	432C	OUTFALL	740.19	740.13	1.00%
	433	4997+00	36.00	RT	–	–	–	–	–	1	–	–	–	–	–	–	1	–	–	–	745.00	7.71	433	434	736.54	736.23	0.48%
	433	4997+00	36.00	RT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	433	436	736.54	736.48	0.32%
	433B	4995+16	18.00	RT	–	–	–	–	–	–	1	–	–	–	–	–	–	–	1	–	742.03	2.09	433B	433C	739.11	738.91	1.00%
	433C	4994+96	18.00	RT	–	–	–	–	–	–	1	–	–	–	–	–	–	–	1	–	741.99	3.00	433C	433D	738.16	737.66	0.96%
	433D	4994+94	39.00	LT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A	433D	OUTFALL	737.66	737.60	1.00%
	433E	4994+76	18.00	RT	–	–	–	–	–	–	1	–	–	–	–	–	–	–	1	–	742.01	2.07	433E	433C	739.11	738.91	1.00%
	434	4997+00	35.00	LT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A	434	OUTFALL	736.23	736.20	0.50%
	436	4996+81	36.00	RT	–	–	–	1	–	–	–	–	–	–	–	–	1	–	–	–	745.00	7.77	436	437	736.48	736.23	0.39%
	437	4996+81	35.00	LT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A	437	OUTFALL	736.23	736.20	0.50%
	438	4998+17	18.00	RT	–	–	–	–	–	–	1	–	–	–	–	–	–	–	1	–	743.42	3.74	438	438A	738.85	738.31	1.10%
	438A	4998+17	36.00	LT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A	438A	OUTFALL	738.31	738.25	1.00%
	439	5020+21	38.00	RT	–	–	–	–	–	–	–	–	–	1	–	–	–	–	–	2	735.90	4.68	439	440	731.22	730.84	0.41%
	439A	5020+24	67.00	RT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	439A	439	731.32	731.22	0.43%
	439B	5020+09	38.00	RT	–	–	–	–	–	–	–	–	1	–	–	–	–	–	–	1	734.25	2.15	439B	439	732.10	732.00	0.83%
	440	5020+06	59.00	LT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A	440	OUTFALL	730.84	730.84	0.00%
	442	5020+29	38.00	RT	–	–	–	–	–	–	–	–	–	1	–	–	–	–	–	2	735.90	4.68	442	443	731.22	730.84	0.41%
	442A	5020+34	67.00	RT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	442A	442	731.32	731.22	0.43%
	442B	5020+42	38.00	RT	–	–	–	–	–	–	–	–	1	–	–	–	–	–	–	1	733.80	1.70	442B	442	732.10	732.00	0.77%
	443	5020+15	59.00	LT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A	443	OUTFALL	730.84	730.84	0.00%
	444	2027+17	47.00	RT	–	–	–	–	1	–	–	–	–	–	–	–	1	–	–	–	742.50	5.52	444	445	735.90	733.50	2.22%
	445	2026+55	51.00	LT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A	445	OUTFALL	733.50	733.45	0.71%
	446	5003+72	48.70	RT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A	446	447	741.43	739.62	0.51%
	447	5000+00	26.10	RT	–	1	–	–	–	–	–	–	–	–	–	–	–	–	1	–	744.28	3.83	447	448	739.62	739.32	0.52%
	447A	4999+80	68.20	RT	1	–	–	–	–	–	–	–	–	–	–	–	1	–	–	–	753.40	11.42	447A	447	740.90	739.62	2.72%
	448	5000+00	38.00	LT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A	448	OUTFALL	739.32	739.29	0.50%
	449	4928+00	18.00	LT	–	–	–	–	–	–	–	1	–	–	–	–	–	–	1	–	751.97	3.65	449	450	747.49	746.96	1.08%
	450	4928+00	37.00	RT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A	450	OUTFALL	746.96	746.90	1.00%
	451	5015+75	18.00	LT	–	–	–	–	–	–	–	1	–	–	–	–	–	–	1	–	745.82	2.99	451	452	742.00	740.43	7.14%
	452	5015+75	48.70	LT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A	452	OUTFALL	740.43	740.40	0.50%
	453	5019+00	18.00	LT	–	–	–	–	–	–	–	1	–	–	–	–	–	–	1	–	739.84	4.01	453	453	735.00	733.43	6.04%
	454	5019+00	50.00	LT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A	454	OUTFALL	733.43	733.40	0.50%
	498	4988+82	34.00	RT	–	–	–	–	–	–	–	–	1	–	–	–	–	–	–	1	749.14	4.14	498	432	745.00	744.54	0.68%
	EVANS LANE																										
	400D	82+51	58.00	RT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	400D	403	747.20	746.81	1.77%
	401	81+70	25.00	RT	–	–	–	–	–	–	–	–	1	–	–	–	–	–	–	1	750.00	2.50	401	403	747.50	746.26	1.41%
	403	82+58	17.30	RT	–	–	–	–	–	1	–	–	–	–	–	–	–	–	1	–	749.84	3.58	403	405	745.43	745.02	0.56%
	404	81+70	25.00	LT	–	–	–	–	–	–	–	–	1	–	–	–	–	–	–	1	750.00	2.50	404	405	747.50	746.23	1.41%
	405	82+56	49.80	LT	–	–	–	1	–	–	–	–	–	–	–	–	1	–	–	–	749.90	3.80	405	406	745.02	744.93	0.47%
	406	82+55	69.00	LT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A	406	OUTFALL	744.93	744.90	0.43%
	TOTAL				1	6	1	5	3	2	3	5	5	6	2	1	13	3	10	27							

NOTES

1) STATIONS ARE TO THE CENTER OF STRUCTURES OR TO THE APRON END OF ENDWALLS.
   OFFSETS ARE TO THE FLANGE LINE FOR STRUCTURES IN THE ROADWAY WITH INLET GRATES, AND TO THE CENTER OF STRUCTURE FOR FIELD INLETS AND MANHOLES WITH SOLID LIDS.
2) PIPE LENGTHS ARE MEASURED TO THE CENTER OF STRUCTURES OR THE END OF PIPE AT APRON ENDWALLS (DOES NOT INCLUDE LENGTH OF AEW)
3) RIM ELEVATIONS ARE GIVEN AT THE FLANGE LINE FOR INLET GRATES, LOW POINT ON GRATE FOR MEDIAN 3 GRATE & MEDIAN 4 GRATE INLETS, OR THE CENTER OF THE MANHOLE COVER FOR MANHOLES
4) STRUCTURE DEPTH = RIM ELEVATION - INVERT - CASTING HEIGHT - ADJUSTMENT
   CASTING HEIGHT = 0.75 FT FOR J AND C COVERS; 0.5 FT FOR HM AND S COVERS; 0.83 FT FOR TYPE V; 0.67 FT FOR TYPE B; 0 FT FOR TYPE MS COVERS
   ADJUSTMENT (RINGS) = 0.33 FT FOR B, V, J, C, HM; 0 FT FOR TYPE MS COVERS
5) FLAT TOP SLAB WITH CENTERED 24" X 36" RECTANGULAR OPENING REQUIRED ON MANHOLES WITH TYPE HM INLET COVERS

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE
** CATEGORY 6100

CONTINUED ON NEXT PAGE

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CONTINUED FROM PREVIOUS PAGE

STORM SEWER ITEMS

CATEGORY	STRUCTURE NUMBER	STATION	OFFSET		608.0415 15-INCH LF	608.0418 18-INCH LF	608.0424 24-INCH LF	608.0430 30-INCH LF	608.0436 36-INCH LF	608.0442 42-INCH LF	610.0124 24x38-INCH LF	610.0129 29x45-INCH LF	610.0134 34x53-INCH LF	610.0138 38x60-INCH LF	610.0429 STORM SEWER PIPE REINF. CONC. HOR. ELLIPT. CLASS HE-IV 29x45-INCH LF	521.0342 AEW FOR CULV. PIPE SLOPED CROSS DRAINS STEEL 42- INCH 4 TO 1 EACH	* 522.1015 15-INCH EACH	522.1018 18-INCH EACH	* 522.1024 24-INCH EACH	522.1030 30-INCH EACH	522.1036 36-INCH EACH	522.1042 42-INCH EACH	* 521.1524 AEW FOR CULV. PIPE SLOPED SIDE DRAINS STEEL 24-INCH 6 TO 1 EACH	523.0524 24x38-INCH EACH	523.0529 29x45-INCH EACH	523.0534 34x53-INCH EACH	523.0538 38x60-INCH EACH	SPV.0060.024 SEALING PIPE STUBS EACH	520.8000 CONCRETE COLLARS FOR PIPE EACH	611.9800.S. PIPE GRATES EACH	* ** 633.5200 MARKERS CULVERT END EACH	NOTES
					APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE						STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-III													APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL								
	432B	4992+00	18.00	RT	–	–	53	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
	432C	4992+00	40.00	LT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	1	–	–	–	–	–	–	–	–	–	–	1	
	433	4997+00	36.00	RT	–	–	–	–	–	–	–	64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	CONSTRUCT MANHOLE ON PIPE AT 433A
	433	4997+00	36.00	RT	–	–	–	19	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
	433B	4995+16	18.00	RT	20	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
	433C	4994+96	18.00	RT	–	–	52	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
	433D	4994+94	39.00	LT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	1	–	–	–	–	–	–	–	–	–	–	1	
	433E	4994+76	18.00	RT	20	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
	434	4997+00	35.00	LT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	1	–	–	–	–	1	
	436	4996+81	36.00	RT	–	–	–	–	–	–	–	64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
	437	4996+81	35.00	LT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	1	–	–	–	–	–	1	
	438	4998+17	18.00	RT	–	49	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
	438A	4998+17	36.00	LT	–	–	–	–	–	–	–	–	–	–	–	–	–	1	–	–	–	–	–	–	–	–	–	–	–	1	
	439	5020+21	38.00	RT	–	–	–	–	92	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
	439A	5020+24	67.00	RT	–	–	–	–	23	–	–	–	–	–	–	–	–	–	–	–	1	–	–	–	–	–	–	–	–	1	PIPE END OF AEW IS 61' RT
	439B	5020+09	38.00	RT	–	12	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	SLOPE GRATES UP FROM SOUTH TO NORTH
	440	5020+06	59.00	LT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	1	–	–	–	–	–	–	–	–	1	PIPE END OF AEW IS 53' LT
	442	5020+29	38.00	RT	–	–	–	–	93	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
	442A	5020+34	67.00	RT	–	–	–	–	23	–	–	–	–	–	–	–	–	–	–	–	1	–	–	–	–	–	–	–	–	1	PIPE END OF AEW IS 61' RT
	442B	5020+42	38.00	RT	–	13	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	SLOPE GRATES UP FROM NORTH TO SOUTH
	443	5020+15	59.00	LT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	1	–	–	–	–	–	–	–	–	1	PIPE END OF AEW IS 53' LT
	444	2027+17	47.00	RT	–	–	–	–	–	–	–	–	–	108	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	CONNECT TO EXISTING
	445	2026+55	51.00	LT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	1	–	–	1	
	446	5003+72	48.70	RT	–	–	356	–	–	–	–	–	–	–	–	–	–	–	1	–	–	–	–	–	–	–	–	1	1	1	
	447	5000+00	26.10	RT	–	–	58	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	SEE NOTE 5
	447A	4999+80	68.20	RT	47	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	CONNECT TO EX. 15" SS, INV=740.90
	448	5000+00	38.00	LT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	1	–	–	–	–	–	–	–	–	–	–	1	
	449	4928+00	18.00	LT	49	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	1	
	450	4928+00	37.00	RT	–	–	–	–	–	–	–	–	–	–	–	–	1	–	–	–	–	–	–	–	–	–	–	–	–	1	
	451	5015+75	18.00	LT	22	–	–	–	–	–	–	–	–	–	–	–	1	–	–	–	–	–	–	–	–	–	–	–	–	1	
	452	5015+75	48.70	LT	–	–	–	–	–	–	–	–	–	–	–	–	1	–	–	–	–	–	–	–	–	–	–	–	–	1	
	453	5019+00	18.00	LT	26	–	–	–	–	–	–	–	–	–	–	–	1	–	–	–	–	–	–	–	–	–	–	–	–	1	
	454	5019+00	50.00	LT	–	–	–	–	–	–	–	–	–	–	–	–	1	–	–	–	–	–	–	–	–	–	–	–	–	1	
	498	4988+82	34.00	RT	68	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
	EVANS LANE														–																
	400D	82+51	58.00	RT	22	–	–	–	–	–	–	–	–	–	–	–	1	–	–	–	–	–	–	–	–	–	–	–	–	1	PIPE END OF AEW IS 52' RT
	401	81+70	25.00	RT	88	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
	403	82+58	17.30	RT	–	–	–	–	–	–	–	–	–	–	73	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	SEE NOTE 5
	404	81+70	25.00	LT	90	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
	405	82+56	49.80	LT	–	–	–	–	–	–	–	–	–	–	19	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
	406	82+55	69.00	LT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	1	–	–	–	–	1	APRON END OF AEW IS 76' LT
	TOTAL				452	198	651	84	338	258	933	358	270	108	282	3	6	2	5	1	6	3	1	2	9	5	1	1	2	3	38	

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE
** CATEGORY 6100

3

GUARDRAIL ITEMS

CATEGORY	ROADWAY	LOCATION			OFFSET	614.0230 STEEL THRIE BEAM LF	614.2300 MGS GUARDRAIL 3 LF	614.2610 MGS GUARDRAIL TERMINAL EAT EACH	614.0396 GUARDRAIL MOW STRIP ASPHALT SY
1000	EAST FRONTAGE ROAD								
		5897+00	-	5898+09	LT	–	110	–	60
		5898+09	-	5898+59	LT	–	–	1	50
		5918+75	-	5919+25	LT	–	–	1	50
		5919+25	-	5925+38	LT	–	613	–	280
		5925+38	-	5925+88	LT	–	–	1	50
		5975+25	-	5975+75	LT	–	–	1	60
		5975+75	-	5988+75	LT	–	1,300	–	590
		5988+75	-	5989+25	LT	–	–	1	60
				SUBTOTAL		–	2,023	5	1,200
1000	WEST FRONTAGE ROAD								
		4892+50	-	4893+00	LT	–	–		50
		4891+50	-	4892+98	RT	–	150	–	70
		4892+98	-	4893+48	RT	–	–	1	50
		4975+50	-	4976+00	RT	–	–	1	50
		4976+00	-	4977+38	RT	137.5	–	–	60
		4977+38	-	4977+88	RT	–	–	1	50
				SUBTOTAL		137.5	150	3	330
	TOTALS					137.5	2,173	8	1,530

SALVAGED RAIL

CATEGORY		FROM STA	TO STA	OFFSET	614.0920 SALVAGED RAIL LF	614.0925 SALVAGED GUARDRAIL END TREATMENTS EACH
1000	EAST FRONTAGE ROAD					
		5897+00	5898+57	LT	107	1
		5974+61	5992+04	LT	1,745	2
				SUBTOTA	1,852	3
	WEST FRONTAGE ROAD					
		4891+50	4893+50	RT	150	1
		4968+22	4986+07	RT	1,682	2
		2028+66	2030+09	RT	143	2
				SUBTOTA	1,975	5
	TOTAL				3,827	8

RESTORATION ITEMS

CATEGORY	ROADWAY	STATION		STATION	625.0500 SALVAGED TOPSOIL SY	627.0200* MULCHING SY	628.6510 SOIL STABILIZER TYPE B ACRE	629.0210* FERTILIZER TYPE B CWT	630.0120* SEEDING MIX NO. 20 LB	630.0140* SEEDING MIX NO. 40 LB	630.0200* SEEDING TEMPORARY LB
1000	EAST FRONTAGE ROAD										
		5897+00	-	3031+00	71,800	71,800	–	54.9	2,152	126	2,341
	KRAUT ROAD										
		46+16	-	52+20	1,027	1,027	–	0.7	32	–	32
	GOLF ROAD										
		67+55	-	72+00	567	567	–	0.4	18	–	18
	UNDISTRIBUTED										
					7,606	7,606	–	5.6	558	14	579
	SUBTOTAL				81,000	81,000	–	61.6	2,760	140	2,970
	WEST FRONTAGE ROAD										
		4891+90	-	2030+25	84,718	84,718	–	61.8	1,879	507	4,000
	EVANS LANE										
		81+60	-	82+75	718	718	–	0.5	24	–	24
	2 MILE ROAD										
		8+70	-	9+75	618	618	–	0.4	18	–	18
	NICHOLAS ROAD										
		18+00	-	19+76	511	511	–	0.4	19	–	19
	3 MILE ROAD										
		28+00	-	29+75	1,255	1,255	–	0.9	40	–	40
	UNDISTRIBUTED										
					9,180	9,180	6	6.4	500	53	679
	SUBTOTAL				97,000	97,000	6	70.4	2,480	560	4,780
	TOTALS				178,000	178,000	6	132.0	5,240	700	7,750

* CATEGORY 6100- MANDATORY SUB

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FINISHING ROADWAY (PROJECT)

CATEGORY	PROJECT	STAGE	213.0100.012 EACH	213.0100.014 EACH
1000	1030-11-77	ALL	1	0
	1030-11-78	ALL	0	1
	TOTAL		1	1

CONTAMINATED SOIL

CATEGORY	ROADWAY	STATION	OFFSET		STATION	OFFSET	205.0501.S EXCAVATION HAULING AND DISPOSAL OF PETROLEUM CONTAMINATED SOIL TON
1000	EAST FRONTAGE ROAD						
		5931+30	0' RT	-	5931+70	26.3' RT	425
					SUBTOTAL		425
	TOTAL						425

MOBILIZATION

CATEGORY	ROADWAY	STAGE	619.1000 EACH
1000	EAST FRONTAGE ROAD	ALL	0.2
1000	WEST FRONTAGE ROAD	ALL	0.2
	TOTAL		0.4

SAFETY FENCE

CATEGORY	ROADWAY	616.0700.S FENCE SAFETY LF
6100	EAST FRONTAGE ROAD	2,000
	WEST FRONTAGE ROAD	2,000
	TOTAL	4,000

FENCING ITEMS

CATEGORY	ROADWAY	LOCATION				616.0100.001 FENCE WOVEN WIRE 4-FT LF
6100	EAST FRONTAGE ROAD	5898+00	-	5926+45	LT	2,853
		5927+58	-	6005+82	LT	7,824
		3003+58	-	3031+00	LT	2,746
	SUBTOTAL					13,423
6100	WEST FRONTAGE ROAD	4892+38	-	4905+00	RT	1,268
		4913+00	-	4923+00	RT	1,005
		4925+00	-	4935+50	RT	1,052
		4940+38	-	4941+74	RT	137
		4951+00	-	5001+28	RT	5,029
		5019+67	-	2021+00	RT	156
		2026+00	-	2028+00	RT	200
	SUBTOTAL					8,846
	TOTAL					22,269

LANDMARK REFERENCE MONUMENTS

CATEGORY	ROADWAY	STATION	DESCRIPTION	621.0100 LANDMARK REFERENCE MONUMENTS EACH
1000	EAST FRONTAGE ROAD	5898+11.27	PI	1
		5927+01.01	PI	1
		5953+48.95	PI	1
		5980+13.40	PI	1
		6006+38.71	PI	1
		3025+99.96	PI	1
			E12-T3N-R21E	5
			SE1-T3N-R21E	5
			E1-T3N-R21E	5
			SE36-T3N-R21E	5
			E36-T3N-R21E	5
			SE25-T4N-R21E	5
	SUBTOTAL			36
1000	WEST FRONTAGE ROAD	4895+80.96	PI	1
		4918+03.46	PI	1
		4923+63.65	PI	1
		4929+03.70	PI	1
		4968+00.00	PI	1
		4976+69.29	PI	1
		4987+01.34	PI	1
		5003+09.24	PI	1
	SUBTOTAL			8
	TOTAL			44

PIPE UNDERDRAIN ITEMS

CATEGORY	ROADWAY	STATION - STATION	OFFSET	612.0106 PIPE UNDERDRAIN 6-INCH LF	612.0206* PIPE UNDERDRAIN UNPERFORATED LF	612.0806 APRON ENDWALLS FOR UNDERDRAIN REINFORCED CONCRETE 6-INCH EACH	645.0111 GEOTEXTILE FABRIC TYPE DF SCHEDULE A SY	646.0805.S** PAVEMENT MARKING OUTFALL EACH
1000	EAST FRONTAGE ROAD							
		5927+75 - 5931+00	RT	325	--	--	180	--
		5927+75 - 5931+50	LT	375	--	--	210	--
		5931+50	LT	--	10	1	--	1
		5931+50 - 5933+25	RT	175	--	--	95	--
		5933+25	RT	--	10	1	--	1
		6000+25 - 6002+14	LT	189	--	--	105	--
		6002+14 - 6003+50	LT	136	--	--	75	--
		3004+50 - 3008+00	LT	350	--	--	195	--
		SUBTOTALS		1,550	20	2	860	2
	WEST FRONTAGE ROAD							
		4926+50 - 4928+00	LT	150	--	--	85	--
		4928+50 - 4930+00	LT	150	--	--	85	--
		4930+00 -	LT	--	10	1	--	1
		4990+50 - 4992+00	RT	150	--	--	85	--
		4992+50 - 4994+94	RT	244	--	--	135	--
		4994+94 - 4997+50	RT	256	--	--	140	--
		4998+17 - 5002+77	RT	460	--	--	255	--
		5002+77 -	RT	--	10	1	--	1
		SUBTOTALS		1,410	20	2	785	2
		TOTALS		2,960	40	4	1,645	4

* ADDITIONAL QUANTITIES LISTED ELSEWHERE
** CATEGORY 6100

MAINTENANCE AND REPAIR OF HAUL ROADS

CATEGORY	LOCATION	618.0100.016 MAINTENANCE AND REPAIR OF HAUL ROADS 1030-11-77 EACH	618.0100.017 MAINTENANCE AND REPAIR OF HAUL ROADS 1030-11-78 EACH
1000	EAST FRONTAGE ROAD (1030-11-77)	1	--
	WEST FRONTAGE ROAD (1030-11-78)	--	1
TOTAL		1	1

3

DUST CONTROL SURFACE TREATMENT

CATEGORY	LOCATION	623.0200 SY
1000	EAST FRONTAGE ROAD	62,850
	KRAUT ROAD	1,000
	GOLF ROAD	1,250
	SUBTOTAL	65,100
1000	WEST FRONTAGE ROAD	64,250
	EVANS LANE	770
	KRAUT ROAD	1,460
	2 MILE ROAD	490
	NICHOLAS ROAD	730
	3 MILE ROAD	950
	SUBTOTAL	68,650
	TOTAL	133,750

WATER ITEMS

CATEGORY	ROADWAY	624.0100 WATER MGAL
1000	EAST FRONTAGE ROAD	570
	WEST FRONTAGE ROAD	630
	TOTAL	1,200

FIELD OFFICE AND LABORATORY

CATEGORY	ROADWAY	STAGE	SPV.0105.001 FIELD OFFICE FIXED LS	642.6001 FIELD LABORATORY EACH
1000	EAST FRONTAGE ROAD	ALL	0.2	0.2
	WEST FRONTAGE ROAD	ALL	0.2	0.2
	TOTAL		0.4	0.4

EROSION CONTROL ITEMS

CATEGORY	STATION	LOCATION	*606.0200 RIPRAP MEDIUM CY	** 628.1104 EROSION BALES EACH	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH	628.2004 EROSION MAT CLASS I TYPE B SY	628.2027 EROSION MAT CLASS II TYPE C SY	628.7005 INLET PROTECTION TYPE A EACH	628.7015 INLET PROTECTION TYPE C EACH	628.7504 TEMPORARY DITCH CHECK LF	628.7555 CULVERT PIPE CHECKS EACH	*645.0120 GEOTEXTILE FABRIC TYPE HR SY	SPV.0060.009 EROSION CONTROL FILTER BAGS EACH	628.7570 ROCK BAGS EACH	SPV.0060.030 SILT FENCE DRAINAGE OUTLET EROSION CONTROL FILTER BAGS EACH	SPV.0060.031 SILT FENCE DRAINAGE OUTLET ROCK BAGS EACH
6100	EAST FRONTAGE ROAD																		
	5897+00 - 3031+00	LT	–	–	751	751	–	–	11,365	26	27	6	580	8	–	–	–	–	–
	5897+00 - 3031+00	RT	–	926	3,328	3,328	–	–	14,727	4,817	–	–	640	24	–	10	1	–	–
	UNDISTRIBUTED		–	233	1,020	1,020	2	2	6,524	1,210	9	2	305	8	–	5	4	10	10
	SUBTOTAL		–	1,159	5,099	5,099	2	2	32,616	6,053	36	8	1,525	40	–	15	5	10	10
6100	WEST FRONTAGE ROAD																		
	4891+90 - 2030+25	LT	–	1,282	4,358	4,358	–	–	15,606	7,370	16	6	590	25	–	6	–	–	–
	4891+90 - 2030+25	RT	15	–	–	–	–	–	25,759	435	27	6	330	8	29	–	–	–	–
	UNDISTRIBUTED		5	128	1,092	1,092	2	2	10,340	1,953	10	3	230	8	6	4	5	10	10
	SUBTOTAL		20	1,410	5,450	5,450	2	2	51,705	9,758	53	15	1,150	41	35	10	5	10	10
	TOTALS		20	2,569	10,549	10,549	4	4	84,321	15,811	89	23	2,675	81	35	24	10	20	20

* CATEGORY 1000
**ADDITIONAL QUANITITES SHOWN ELSEWHERE

3

PAVEMENT MARKING ITEMS

CATEGORY	START		END	646.0106 PAVEMENT MARKING EPOXY 4-INCH YELLOW LF	646.0106 PAVEMENT MARKING EPOXY 4-INCH WHITE LF	646.0883.S PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH WHITE LF	646.0883.S PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH DASHED WHITE 3-FOOT LINE 9-FOOT SKIP LF	646.0900.S PAVEMENT MARKING LATE SEASON LF	SPV.0060.081 PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 2 EACH	SPV.0060.077 PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC WORDS EACH	SPV.0090.080 PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC STOP LINE 18-INCH LF
6100											
	EAST FRONTAGE ROAD										
	5897+00	-	3031+00	19,063	26,914	1,599	200	--	4	4	56
	KRAUT ROAD										
	49+75	-	52+20	362	162	--	--	--	--	--	49
	GOLF ROAD										
	69+75	-	72+00	326	139	--	--	--	--	--	54
				19,751	27,215	1,599	200	--			
	SUBTOTAL			46,966		1,799			4	4	159
6100	WEST FRONTAGE ROAD										
	4891+90	-	2030+25	15,729	26,854	2,293	264	45,194	4	4	54
	KRAUT ROAD										
	46+16	-	48+31	238	136	--	--	428	--	--	54
	EVANS LANE										
	80+75	-	82+75	360	308	--	--	355	--	--	27
	2 MILE ROAD										
	8+70	-	10+00	134	108	--	--	267	--	--	25
	GOLF ROAD										
	67+63	-	68+00	--	74	--	--	110	--	--	36
	NICHOLAS ROAD										
	18+00	-	20+00	335	249	--	--	609	--	--	25
	3 MILE ROAD										
	28+00	-	30+00	488	399	--	--	914	--	--	27
				17,284	28,128	2,293	264	47,877			
	SUBTOTAL			45,412		2,557			4	4	248
	TOTALS			92,378		4,356		47,877	8	8	407

SAW CUTTING ITEMS

CATEGORY	ROADWAY	STATION	OFFSET	690.0150 SAWING ASPHALT LF	REMARKS
1000	EAST FRONTAGE ROAD				
		5897+00	LT/RT	33	BEGIN CONST
		5930+00	RT	30	DRIVEWAY
		5932+36	RT	32	DRIVEWAY
		5941+17	RT	35	DRIVEWAY
		5943+86	RT	28	DRIVEWAY
		5944+50	LT	30	PARKING LOT
		5984+76	RT	23	DRIVEWAY
	KRAUT ROAD				
		49+75	LT/RT	22	END CONST
		51+56	LT	35	DRIVEWAY
		52+20	LT/RT	20	END CONST
	GOLF ROAD				
		69+73	LT/RT	25	END CONST
		72+00	LT/RT	22	END CONST
	SUBTOTAL			335	
1000	WEST FRONTAGE ROAD				
		4891+49 TO 4891+90	RT	41	BEGIN CONST
		4891+90	LT/RT	32	BEGIN CONST
		4891+90 TO 4892+42	LT	52	BEGIN CONST
		4892+42	LT	8	BEGIN CONST
		4900+30	LT	24	DRIVEWAY
		4900+74	LT	20	DRIVEWAY
		4928+27	LT	68	DRIVEWAY
		4929+59	LT	24	DRIVEWAY
		4945+38	LT	10	DRIVEWAY
		4948+74	LT	17	DRIVEWAY
		4960+96	LT	12	DRIVEWAY
		4966+56	LT	50	DRIVEWAY
		4973+89	LT	69	DRIVEWAY
		5006+75	LT	9	DRIVEWAY
		5009+74	LT	11	DRIVEWAY
		5010+36	LT	14	DRIVEWAY
		5012+07	LT	18	DRIVEWAY
		5016+24	LT	22	DRIVEWAY
	KRAUT ROAD				
		46+16	LT/RT	22	BEGIN CONST
		48+31	LT/RT	23	END CONST
	GOLF ROAD				
		68+00	LT/RT	31	END CONST
	EVANS LANE				
		80+75	LT/RT	24	BEGIN CONST
		80+91	LT	17	DRIVEWAY
		81+93	RT	20	DRIVEWAY
		81+90	LT	30	DRIVEWAY
	2 MILE ROAD				
		8+70	LT/RT	24	BEGIN CONST
	NICHOLAS ROAD				
		18+00	LT/RT	24	BEGIN CONST
	3 MILE ROAD				
		28+00	LT/RT	23	BEGIN CONST
	SUBTOTAL			698	
	TOTAL			1,033	

3

CONSTRUCTION STAKING ITEMS

CATEGORY	LOCATION	SPV.0105.012 SURVEY PROJECT ID 1030-11-77 LS	SPV.0105.014 SURVEY PROJECT ID 1030-11-78 LS
1000	PROJECT	1	1
	TOTALS	1	1

RECONSTRUCTING MANHOLES

CATEGORY	ROADWAY	STATION	SPV.0060.080 RECONSTRUCTING MANHOLES SPECIAL EACH
1000	WEST FRONTAGE ROAD		
		4897+10 LT	1
		4900+89 LT	1
		TOTAL	2

3

TEMPORARY SETTLING BASIN

CATEGORY	ROADWAY	LOCATION	SPV.0180.002 GEOTEXTILE FABRIC TYPE FF SY	* 628.1104 EROSION BALES EACH
6100	EAST FRONTAGE ROAD	UNDISTRIBUTED	180	115
	WEST FRONTAGE ROAD	UNDISTRIBUTED	180	115
	TOTAL		360	230

*ADDITIONAL QUANITITIES SHOWN ELSEWHERE

RECONSTRUCTING INLETS

CATEGORY	ROADWAY	STATION	611.0430 RECONSTRUCTING INLETS EACH	NOTES
1000	WEST FRONTAGE ROAD	4893+45 LT	1	RAISE TYPE 9-MS INLET APPROX 1.7'; SALVAGE AND RESET EXIST. COVERS
		TOTAL	1	

PAVEMENT CLEANUP

CATEGORY	LOCATION	SPV.0105.013 PAVEMENT CLEANUP PROJECT 1030-11-77 LS	SPV.0105.015 PAVEMENT CLEANUP PROJECT 1030-11-78 LS
1000	PROJECT	1	1
	TOTALS	1	1

TRACKING PADS

CATEGORY	STAGE	628.7560 TRACKING PADS EACH
1000	EAST FRONTAGE ROAD	10
	WEST FRONTAGE ROAD	10
	TOTAL	20

LOCATING NO-PASSING ZONES

CATEGORY	ROADWAY	STATION		STATION	648.0100 LOCATING NO-PASSING ZONES MI
6100	EAST FRONTAGE ROAD				
		5897+00	-	3031+00	2.60
				SUBTOTAL	2.60
	WEST FRONTAGE ROAD				
		4891+90	-	2030+25	2.62
				SUBTOTAL	2.62
	TOTAL				5.22

10301177-00008RDAPERM

SIGN REMOVAL SUMMARY

CATEGORY	SIGN #	638.2602 REMOVING SIGNS TYPE II (EACH)	638.3000 REMOVING SMALL SIGN SUPPORTS (EACH)	SIGN MOUNTED ON SAME POST AS #	REMARKS
6100	EAST FRONTAGE ROAD				
	1R01	1	1	---	NO PASSING ZONE
	2R01	1	1	---	NO PASSING ZONE
	2R02	1	1	---	STOP AHEAD
	3R01	1	1	---	STOP
	3R02	1	---	3R01	ALL WAY
	3R03	1	1	---	STOP
	3R04	1	---	3R03	ALL WAY
	3R05	1	1	---	STOP
	3R06	1	---	3R05	ALL WAY
	3R07	1	1	---	STOP
	3R08	1	---	3R07	ALL WAY
	3R12	1	1	---	NO PASSING ZONE
	3R13	1	1	---	STOP AHEAD
	5R01	1	1	---	NO PASSING ZONE
	7R01	1	1	---	NO PASSING ZONE
	8R01	1	1	---	NO PASSING ZONE
	8R03	1	1	---	STOP
	8R04	1	1	---	STOP
	9R01	1	1	---	NO PASSING ZONE
	10R01	1	1	---	NO PASSING ZONE
	10R02	1	1	---	YIELD AHEAD
	SUBTOTAL	21	17		

SIGN REMOVAL SUMMARY

CATEGORY	SIGN #	638.2602 REMOVING SIGNS TYPE II (EACH)	638.3000 REMOVING SMALL SIGN SUPPORTS (EACH)	SIGN MOUNTED ON SAME POST AS #	REMARKS
6100	WEST FRONTAGE ROAD				
	11R01	1	1	---	NO PASSING ZONE
	11R02	1	1	---	STOP
	11R05	1	1	---	STOP AHEAD
	11R06	1	1	---	CTH ASSEMBLY
	12R01	1	1	---	STOP AHEAD
	12R02	1	1	---	NO PASSING ZONE
	13R01	1	1	---	STOP
	13R02	1	1	---	STOP
	13R03	1	1	---	STOP
	13R04	1	1	---	STOP
	13R07	1	1	---	STOP AHEAD
	13R08	1	1	---	NO PASSING ZONE
	16R01	1	1	---	NO PASSING ZONE
	16R04	1	1	---	STOP AHEAD
	16R05	1	1	---	STOP
	16R06	1	1	---	DOUBLE NIGHT ARROW
	17R01	1	1	---	NO PASSING ZONE
	18R01	1	1	---	STOP
	18R03	1	1	---	NO PASSING ZONE
	19R01	1	1	---	NO PASSING ZONE
	19R02	1	1	---	STOP
	20R03	1	1	---	NO PASSING ZONE
	20R04	1	1	---	OBJECT MARKER
	20R05	1	1	---	STOP
	20R06	1	1	---	STOP AHEAD
	20R07	1	1	---	DOUBLE NIGHT ARROW
	SUBTOTAL	26	26		
	TOTAL	47	43		

3

PERMANENT SIGNING SUMMARY

CATEGORY	SIGN #	SIGN CODE	SIGN SIZE INCHES	634.0614 POSTS WOOD 4X6-INCH X 14 FEET EACH	634.0616 POSTS WOOD 4X6-INCH X 16 FEET EACH	637.0202 SIGNS REFLECTIVE TYPE II SF	634.0814 POSTS TUBULAR STEEL 2X2-IN X 14 FEET EACH	634.0816 POSTS TUBULAR STEEL 2X2-IN X 16 FEET EACH	638.2102 MOVING SIGNS TYPE II EACH	SIGN MOUNTED ON SAME POST AS #	REMARKS
6100	EAST FRONTAGE ROAD										
	1-01	R2-1	24X30	--	1	5.00	--	--	--	--	SPEED LIMIT 55
	1-02	W1-2L	36X36	--	1	9.00					LEFT CURVE
	1-03	W13-1	24X24	--	--	4.00					ADVISORY SPEED 40
	2-01	W14-3	48X36	--	1	6.00	--	--	--	--	NO PASSING ZONE
	2-02	W3-1	36X36	--	1	9.00	--	--	--	--	STOP AHEAD
	2-03	W14-3	48X36	--	1	6.00	--	--	--	--	NO PASSING ZONE
	2-04	R3-8	36X30	--	1	7.50	--	--	--	--	LANE ASSIGNMENT ARROWS
	3-01	R1-1	36X36	--	1	7.48	--	--	--	--	STOP
	3-02	R1-1	36X36	--	1	7.48	--	--	--	--	STOP
	3-03	R1-1	36X36	--	1	7.48	--	--	--	--	STOP
	3-04	R1-1	36X36	--	1	7.48	--	--	--	--	STOP
	3-05	R1-3P	24X9	--	--	1.50	--	--	--	3-01	ALL-WAY
	3-06	R1-3P	24X9	--	--	1.50	--	--	--	3-02	ALL-WAY
	3-07	R1-3P	24X9	--	--	1.50	--	--	--	3-03	ALL-WAY
	3-08	R1-3P	24X9	--	--	1.50	--	--	--	3-04	ALL-WAY
	3-09	R3-8	36X30	--	1	7.50	--	--	--	--	LANE ASSIGNMENT ARROWS
	3-10	W14-3	48X36	--	1	6.00	--	--	--	--	NO PASSING ZONE
	3-11	W3-1	36X36	--	1	9.00	--	--	--	--	STOP AHEAD
	4-01	R2-1	24X30	--	1	5.00	--	--	--	--	SPEED LIMIT 55
	6-01	W14-3	48X36	--	1	6.00	--	--	--	--	NO PASSING ZONE
	7-01	R2-1	24X30	--	1	5.00	--	--	--	--	SPEED LIMIT 55
	8-01	R1-1	36X36	--	1	7.48	--	--	--	--	STOP
	8-02	R1-1	36X36	--	1	7.48	--	--	--	--	STOP
	9-01	W14-3	48X36	--	1	6.00	--	--	--	--	NO PASSING ZONE
	10-01	W3-5	36X36	--	1	9.00	--	--	--	--	SPEED LIMIT 35 AHEAD
	10-02	W14-3	48X36	--	1	6.00	--	--	--	--	NO PASSING ZONE
	1M01	--	--	--	--	--	--	--	1	--	STOP AHEAD
	1M02	--	--	--	--	--	--	--	1	--	JUNCTION ASSEMBLY
	3M01	--	--	--	1	--	--	--	1	--	WEIGHT LIMIT CLASS B
	3M02	--	--	--	1	--	--	--	1	--	NEIGHBORHOOD WATCH
	8M01	--	--	--	--	--	1	--	1	--	WEIGHT LIMIT CLASS B
	SUBTOTAL			0	23	156.88	1	0	5		

PERMANENT SIGNING SUMMARY

CATEGORY	SIGN #	SIGN CODE	SIGN SIZE INCHES	634.0614 POSTS WOOD 4X6-INCH X 14 FEET EACH	634.0616 POSTS WOOD 4X6-INCH X 16 FEET EACH	637.0202 SIGNS REFLECTIVE TYPE II SF	634.0814 POSTS TUBULAR STEEL 2X2-IN X 14 FEET EACH	634.0816 POSTS TUBULAR STEEL 2X2-IN X 16 FEET EACH	638.2102 MOVING SIGNS TYPE II EACH	SIGN MOUNTED ON SAME POST AS #	REMARKS
6100	WEST FRONTAGE ROAD										
	11-01	W3-1	36X36	--	1	9.00	--	--	--	--	STOP AHEAD
	11-02	M2-1	21X15	--	1	2.19	--	--	--	--	JCT
		M1-5A	24X24	--	--	4.00	--	--	--	--	COUNTY C
	11-03	R1-1	36X36	--	1	7.48	--	--	--	--	STOP
	11-04	R1-1	36X36	--	1	7.48	--	--	--	--	STOP
	11-05	W14-3	48X36	--	1	6.00	--	--	--	--	NO PASSING ZONE
	11-06	W1-7	48X24	2	--	8.00	--	--	--	--	DOUBLE NIGHT ARROW
	11-07	W3-1	36X36	--	1	9.00	--	--	--	--	STOP AHEAD
	11-08	W3-1	36X36	--	1	9.00	--	--	--	--	STOP AHEAD
	11-09	R2-1	24X30	--	1	5.00	--	--	--	--	SPEED LIMIT 55
	11-10	W1-4R	36X36	--	1	9.00					RIGHT REVERSE CURVE
	11-11	W13-1	24X24	--	--	4.00					ADVISORY SPEED 40
	12-01	W3-1	36X36	--	1	9.00	--	--	--	--	STOP AHEAD
	12-02	W14-3	48X36	--	1	6.00	--	--	--	--	NO PASSING ZONE
	12-03	R3-8	36X30	--	1	7.50	--	--	--	--	LANE ASSIGNMENT ARROWS
	13-01	R1-1	36X36	--	1	7.48	--	--	--	--	STOP
	13-02	R1-1	36X36	--	1	7.48	--	--	--	--	STOP
	13-03	R1-1	36X36	--	1	7.48	--	--	--	--	STOP
	13-04	R1-1	36X36	--	1	7.48	--	--	--	--	STOP
	13-05	R1-3P	24X9	--	--	1.50	--	--	--	13-01	ALL-WAY
	13-06	R1-3P	24X9	--	--	1.50	--	--	--	13-02	ALL-WAY
	13-07	R1-3P	24X9	--	--	1.50	--	--	--	13-03	ALL-WAY
	13-08	R1-3P	24X9	--	--	1.50	--	--	--	13-04	ALL-WAY
	13-09	R3-8	36X30	--	1	7.50	--	--	--	--	LANE ASSIGNMENT ARROWS
	13-10	W3-1	36X36	--	1	9.00	--	--	--	--	STOP AHEAD
	14-01	W14-3	48X36	--	1	6.00	--	--	--	--	NO PASSING ZONE
	14-02	R2-1	24X30	--	1	5.00	--	--	--	--	SPEED LIMIT 55
	16-01	W14-3	48X36	--	1	6.00	--	--	--	--	NO PASSING ZONE
	16-02	W1-7	48X24	2	--	8.00	--	--	--	--	DOUBLE NIGHT ARROW
	16-03	R1-1	36X36	--	1	7.48	--	--	--	--	STOP
	16-04	R1-1	36X36	--	1	7.48	--	--	--	--	STOP
	16-05	W3-1	36X36	--	1	9.00	--	--	--	--	STOP AHEAD
	16-06	W3-1	36X36	--	1	9.00	--	--	--	--	STOP AHEAD
	17-01	W14-3	48X36	--	1	6.00	--	--	--	--	NO PASSING ZONE
	18-01	W14-3	48X36	--	1	6.00	--	--	--	--	NO PASSING ZONE
	18-02	W1-7	48X24	2	--	8.00	--	--	--	--	DOUBLE NIGHT ARROW
	18-03	R1-1	36X36	--	1	7.48	--	--	--	--	STOP
	18-04	R1-1	36X36	--	1	7.48	--	--	--	--	STOP
	19-01	W14-3	48X36	--	1	6.00	--	--	--	--	NO PASSING ZONE
	19-02	R1-1	36X36	--	1	7.48	--	--	--	--	STOP
	19-03	R1-1	36X36	--	1	7.48	--	--	--	--	STOP
	19-04	W1-7	48X24	2	--	8.00	--	--	--	--	DOUBLE NIGHT ARROW
	19-05	W3-1	36X36	--	1	9.00	--	--	--	--	STOP AHEAD
	19-06	W3-1	36X36	--	1	9.00	--	--	--	--	STOP AHEAD
	19-07	W3-5	36X36	--	1	9.00	--	--	--	--	SPEED LIMIT 35 AHEAD
	20-01	W14-3	48X36	--	1	6.00	--	--	--	--	NO PASSING ZONE
	20-02	--	--	--	--	--	--	--	--	--	NUMBER NOT USED
	20-03	R2-1	24X30	--	1	5.00	--	--	--	--	SPEED LIMIT 55
	20-04	R1-1	36X36	--	1	7.48	--	--	--	--	STOP
	20-05	R1-1	36X36	--	1	7.48	--	--	--	--	STOP
	20-06	W3-1	36X36	--	1	9.00	--	--	--	--	STOP AHEAD
	20-07	W3-1	36X36	--	1	9.00	--	--	--	--	STOP AHEAD
	20-08	W1-7	48X24	2	--	8.00	--	--	--	--	DOUBLE NIGHT ARROW
	20-09	R2-1	24X30	--	1	5.00	--	--	--	--	SPEED LIMIT 35
	11M01	--	--	--	1	--	--	--	1	--	SPEED LIMIT 25
	11M02	--	--	--	--	--	--	--	1	11M01	AXLE WEIGHT LIMIT 5 TONS
	13M01	--	--	--	1	--	--	--	1	--	SPEED LIMIT 45
	16M01	--	--	--	--	--	1	--	1	--	NEIGHBORHOOD WATCH
	20M01	--	--	--	--	--	--	1	1	--	SPEED LIMIT 45
	20M02	--	--	--	--	--	--	--	1	20M01	WEIGHT LIMIT CLASS B
	20M03	--	--	--	--	--	--	--	1	20M01	NEIGHBORHOOD WATCH
	SUBTOTAL			10	44	360.91	1	1	7		
	TOTALS			10	67	517.79	2	1	12		

3

TRAFFIC CONTROL

CATEGORY	LOCATION	STAGE DURATION DAYS	643.0300 TRAFFIC CONTROL DRUMS EACH*	643.0300 TRAFFIC CONTROL DRUMS DAYS	643.0420 TRAFFIC CONTROL BARRICADES TYPE III EACH*	643.0420 TRAFFIC CONTROL BARRICADES TYPE III DAYS	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A EACH*	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A DAYS	643.0900 TRAFFIC CONTROL SIGNS EACH*	643.0900 TRAFFIC CONTROL SIGNS DAYS	643.1050 TRAFFIC CONTROL SIGNS PCMS EACH*	643.1050 TRAFFIC CONTROL SIGNS PCMS DAYS
6100	STAGE 1											
	EAST FRONTAGE ROAD	130	–	–	16	2,080	32	4,160	38	4,940	–	–
	IH94 NB		50	2,167	–	–	–	–	8	347	–	–
	MICROTUNNELING	14	54	756	–	–	–	–	16	224	–	–
	UNDISTRIBUTED		–	730	–	208	–	416	–	494	2	24
	SUBTOTAL			3,652		2,288		4,576		6,005		24
	STAGE 2											
	WEST FRONTAGE ROAD	141	–	–	22	3,102	44	6,204	53	7,473	–	–
	IH94 NB		50	2,350	–	–	–	–	8	376	–	–
	UNDISTRIBUTED		–	587	–	312	–	623	–	748	2	24
	SUBTOTAL			2,937		3,414		6,827		8,597		24
	TOTALS			6,589		5,702		11,403		14,602		48

* FOR INFORMATION ONLY

TRAFFIC CONTROL COVERING SIGNS TYPE II

CATEGORY	LOCATION	STAGE	643.0920 EACH	NUMBER OF CYCLES	NUMBER OF SIGNS
6100	EAST FRONTAGE ROAD	1	14	1	14
	WEST FRONTAGE ROAD	2	8	1	8
	TOTAL		22		

3

TRAFFIC CONTROL (PROJECT)

CATEGORY	STAGE	LOCATION	1030-11-77 643.0100.012 EACH	1030-11-78 643.0100.014 EACH
6100	ALL	PROJECT	1	1
		TOTAL	1	1

GEOTECHNICAL REQUIREMENTS

CATEGORY	LOCATION	SPV.0060.060 SURFACE SETTLEMENT MARKERS EACH	SPV.0060.062 ABANDONMENT OF GEOTECHNICAL INSTRUMENTATION EACH	SPV.0075.002 BOULDER OBSTRUCTIONS HRS
1000	EAST FRONTAGE ROAD	3	1	5
	SUBTOTAL	3	1	5

EXPOSING EXISTING UTILITY

CATEGORY	ROADWAY	SPV.0060.012 EXPOSING EXISTING UTILITY EACH
6100	EAST FRONTAGE ROAD	4
	WEST FRONTAGE ROAD	4
	TOTAL	8

TRAFFIC CONTROL SIGNS FIXED MESSAGE

CATEGORY	STAGE	SIGN NO.	SIGN SIZE W X H FT X FT	643.1000 SIGN AREA SF
6100	EAST FRONTAGE ROAD	102	7 X 4	28
		104	7 X 4	28
			SUBTOTAL =	56
	WEST FRONTAGE ROAD	106	7 X 4	28
		108	7 X 4	28
			SUBTOTAL =	56
			TOTAL	112

10301177-00008RDAPERM

TRANSPORTATION PROJECT PLAT NO: 1030-11-21 - 4.01
AMENDMENT NO: 1

AMENDS TPP 1030-11-21-4.01, RECORDED AS DOCUMENT 2255369 BY ADDING UTILITY AGREEMENT NUMBER 208.

THAT PART OF THE NE1/4 OF THE SE1/4 OF SECTION 12, TOWNSHIP 03 NORTH, RANGE 21 EAST, TOWN OF YORKVILLE, RACINE COUNTY, WISCONSIN.

RELOCATION ORDER I-94 AND FRONTAGE ROADS STH 20 TO CTH K SEGMENT RACINE COUNTY

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

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

SCHEDULE OF LANDS & INTERESTS REQUIRED		OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.					
PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED ACRES NEW	EXISTING	TOTAL	T.L.E. TEMP. ACRES	P.L.E. PERM. ACRES
1	GUTMAN REVOCABLE TRUST	AR TLE	0.000	0.000	0.000	0.060	0.000
2	VICTORIA L. POKRANT	AR	0.000	0.000	0.000	0.000	0.000
3	JEROME J. JR. & JILL J. MICHEL	FEE AR	0.029	0.000	0.029	0.000	0.000
57	LEO J. & DANA M. DEBRABANDER	FEE	0.018	0.000	0.018	0.000	0.000
UA208	TOWN OF YORKVILLE SEWER	- -	- -	- -	- -	- -	- -

The most current Right of Way information should be viewed in DTD View using the Real Estate Project ID. The Plat information contained in this AsBuilt Plan may not be the final records.

A Concrete Monument
w/ A Brass Cap
Y 186321.16
X 591451.59

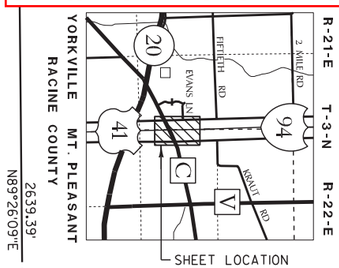
A Cast Iron Monument
w/ A Brass Cap
Y 188952.36
X 591445.72

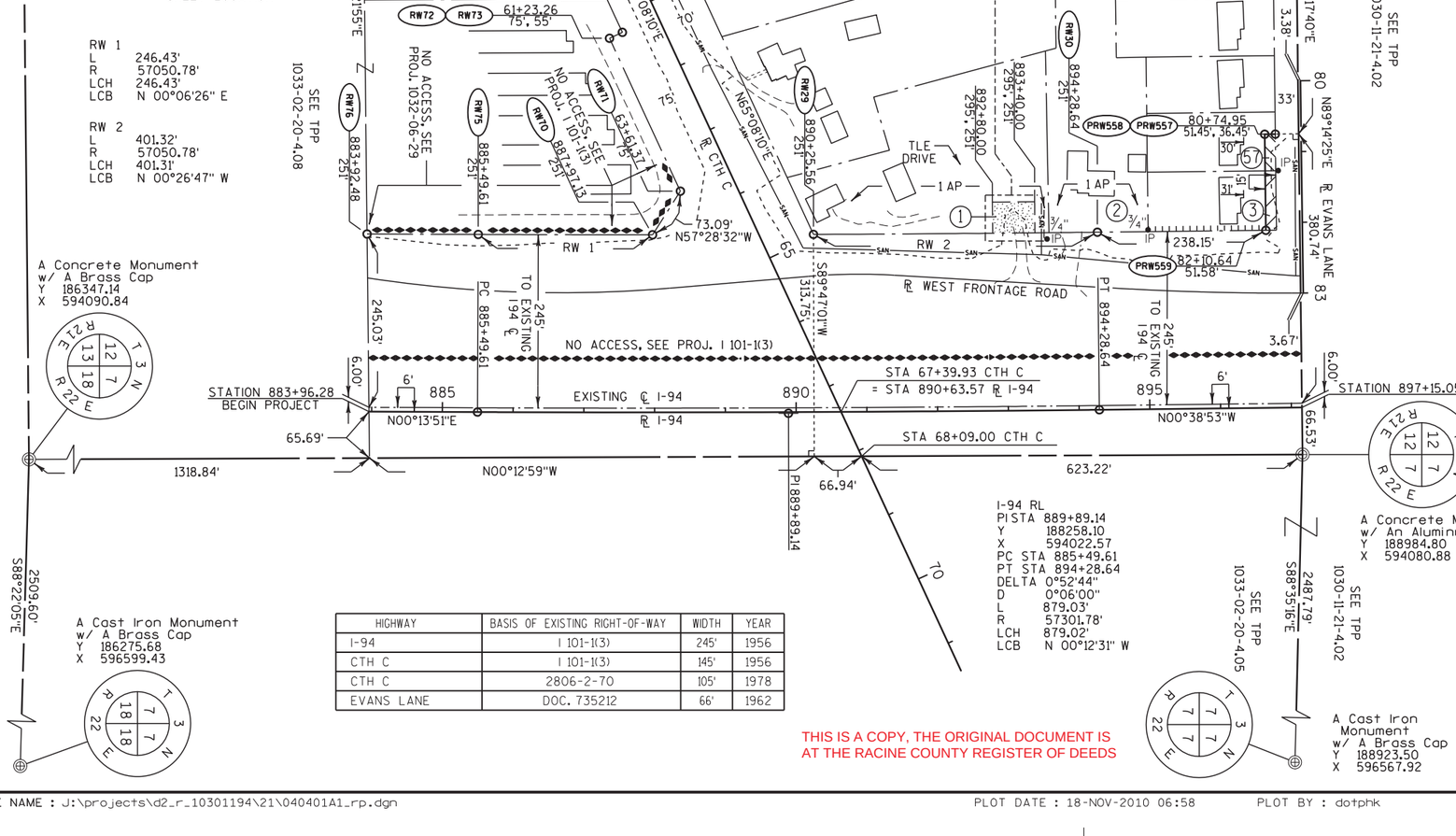
A Concrete Monument
w/ A Brass Cap
Y 186347.14
X 594090.84

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

A Concrete Monument
w/ An Aluminum Cap
Y 188984.80
X 594080.88

A Cast Iron Monument
w/ A Brass Cap
Y 188923.50
X 596567.92





HIGHWAY	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
I-94	I 101-1(3)	245'	1956
CTH C	I 101-1(3)	145'	1956
CTH C	2806-2-70	105'	1978
EVANS LANE	DOC. 735212	66'	1962

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

CONVENTIONAL ABBREVIATIONS

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

CONVENTIONAL UTILITY SYMBOLS

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

CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN	LS (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	PRW20	QUARTER LINE
PARCEL NUMBER	102	SIXTEENTH LINE
SIGN NUMBER (OFF PREMISE)	21-1	EXISTING CENTERLINE
BUILDING		PROPOSED REFERENCE LINE
		PARALLEL OFFSET

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 NORTH, AND RAYMOND SOUTH. ALL DISTANCES ARE GROUND LENGTH.

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

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

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

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

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

SCALE, FEET

GN 0 100 200

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

DATE: 11-18-2010 — Name / Title

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 11-17-2010 — Name PAUL KRAUSE

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1030-11-21 - 4.01
AMENDMENT NO: 1

DOCUMENT # 2269391
RACINE COUNTY REGISTER OF DEEDS
November 24, 2010 4:22 PM
JAMES A LADWIG
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: $25.00
Pages: 1
Vol Pg

FILE NAME : J:\projects\d2_r_10301194\21\040401A1_rp.dgn PLOT DATE : 18-NOV-2010 06:58 PLOT BY : dotphk PLOT NAME : PLOT SCALE : 100.000000:1.000000
CONST.# 1030-11-77/78/79 I-94 1030-11-21 4.01 A1

10301177-00008RDAPERM

TRANSPORTATION PROJECT PLAT NO: 1030-11-21 - 4.02

THAT PART OF PARCELS 1, 2, & 3 OF CSM 2287, LOCATED IN AND INCLUDING THAT PART OF THE SE1/4 OF THE NE1/4 AND THE NE1/4 OF THE NE1/4 OF SECTION 12, TOWNSHIP 03 NORTH, RANGE 21 EAST, TOWN OF YORKVILLE, AND THAT PART OF THE SW1/4 OF THE NW1/4 AND THE NW1/4 OF THE NW1/4 OF SECTION 7, TOWNSHIP 03 NORTH, RANGE 22 EAST, VILLAGE OF MT. PLEASANT, RACINE COUNTY, WISCONSIN.

RELOCATION ORDER I-94 AND FRONTAGE ROADS STH 20 TO CTH K SEGMENT RACINE COUNTY

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

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

CONVENTIONAL ABBREVIATIONS

ACCESS POINT	AP	RELEASE OF RIGHTS	ROR
ACCESS RIGHTS	AR	REMAINING	REM.
ACRES	AC.	RIGHT-OF-WAY	R/W
AND OTHERS	ET.AL.	SECTION	SEC.
CENTERLINE	C/L	STATION	STA.
CERTIFIED SURVEY MAP	CSM	TEMPORARY LIMITED EASEMENT	TLE
CORNER	COR.	VOLUME	V.
DOCUMENT	DOC.		
EASEMENT	EASE.		
HIGHWAY EASEMENT	H.E.		
LAND CONTRACT	LC		
MONUMENT	MON.		
PAGE	P.		
PERMANENT LIMITED EASEMENT	PLE		
PROPERTY LINE	PL		
RECORDED AS	(100')		
REFERENCE LINE	R/L		

CURVE DATA

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE OR DELTA	DELTA
LENGTH OF CURVE	L
TANGENT	TAN

CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN (1" UNLESS NOTED)
R/W MONUMENT
R/W STANDARD
SIGN
SECTION CORNER MONUMENT
SECTION CORNER SYMBOL
FEE (HATCH VARIES)
TEMPORARY LIMITED EASEMENT
PERMANENT LIMITED EASEMENT
R/W BOUNDARY POINT
PARCEL NUMBER
UTILITY PARCEL NUMBER
SIGN NUMBER (OFF PREMISE)
BUILDING

PROPOSED R/W LINE
EXISTING H.E. LINE
PROPERTY LINE
LOT & TIE LINES
SLOPE INTERCEPTS
CORPORATE LIMITS
NO ACCESS (BY PREVIOUS ACQUISITION/CONTROL)
NO ACCESS (BY ACQUISTION)
NO ACCESS (BY STATUTORY AUTHORITY)
SECTION LINE
QUARTER LINE
SIXTEENTH LINE
EXISTING CENTERLINE
PROPOSED REFERENCE LINE
PARALLEL OFFSET

CONVENTIONAL UTILITY SYMBOLS

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

HIGHWAY	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
I-94	I 101-1(3)	VARIES	1956
I-94	DJ 2381	VARIES	1935
EVANS LANE	DOC. 735212	66'	1962
50TH ROAD	YORKVILLE V. 1 P. 197	66'	1852
KRAUT ROAD	MT. PLEASANT V. B P. 81	66'	1851

A Cast Iron Monument w/ A Brass Cap Y 188952.36 X 591445.72

A Cast Iron Monument w/ A Brass Cap Y 191594.54 X 591429.86

A Cast Iron Monument w/ A Brass Cap Y 188984.80 X 594080.88 Concrete Monument An Aluminum Cap

A Cast Iron Monument w/ A Brass Cap Y 191624.62 X 594074.84

A Cast Iron Monument w/ A Brass Cap Y 188923.50 X 596567.92

A Cast Iron Monument w/ A Brass Cap Y 191568.89 X 596549.90

TOWN OF YORKVILLE

SE1/4-NE1/4

NE1/4-NE1/4

SW1/4-NW1/4

NW1/4-NW1/4

VILLAGE OF MOUNT PLEASANT

N89°20'55"E 2169.08' PL R 50TH ROAD 33'

SEE TPP 1030-11-21-4.01

SEE TPP 1030-11-21-4.03

SEE TPP 1033-02-20-4.05

SEE TPP 1030-11-21-4.03

4

4

N89°17'40"E 2182.00' 33' 3.38' 80' R EVANS LANE N89°14'25"E 83 380.84' 3.67'

PRW504 PRW505 PRW320 PRW506 PRW507 PRW508 PRW509 PRW501 PRW502 PRW503

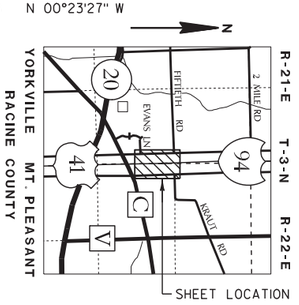
PARCEL 3 CSM 2287 V. 7 P. 47

PARCEL 2 CSM 2287

PARCEL 1 CSM 2287

29.55', 49.55', 80+74.95, 44', 135.89', 45', 20', 58, 4, 5, 6, 7, 8, 9, 10, 901+43.80, 25', 904+70.00, 220', 210', 906+96.33, 907+40.00, 230', 43.76', N00°38'13"W, 906+96.33, 230', 20', S89°20'18"W, DETAIL NOT TO SCALE, 20', N89°22'26"E, 912+10.88, 210', 915+90.00, 255', 210', 917+00.00, 255', 210', 917+25.43, 210', 14', 210', 1 AP, 2 AP, 3/4" IP, N00°38'53"W 376.00', 49.42', 82+10.84, 327.67', N04°46'50"E, RW CURVE L 515.49' R 114795.56' LCH 515.49' LCB N 00°31'10" W, RW CURVE L 515.49' R 114795.56' LCH 515.49' LCB N 00°15'43" W, TLE DRIVE, PI 912+10.89, ℄ WEST FRONTAGE ROAD, 450.10', 250', 390.00', TO EXISTING 194 ℄ 245', 190', 6.00', 66.53', STA 897+15.05, N00°38'53"W, EXISTING ℄ I-94, ℄ I-94, PC EXISTING ℄ I-94, NO ACCESS, SEE PROJ. I 101-1(3), PT EXISTING ℄ I-94, N00°08'00"W, STA 49+19.93 50TH RD. = STA 923+54.86 ℄ I-94, STA 50+00 50TH RD., 80.07', N88°57'10"E, 193.67', 50, 55, 900, 905, 910, 915, 920, 6', 99', 105', 126.94', 2639.81', ℄ EAST FRONTAGE ROAD, PC 906+96.33, PT 917+25.43, PL N00°07'52"W, 850', 26', 125', 275.01', 15', 20', 45', N09°38'30"W, DETAIL NOT TO SCALE, 11.45', 897+10.55, 193.39', 897+21.86, 191.60', S88°35'16"E, 2360.85', 898+35.00, 192.32', 897+90.00, 192.21', 207.21', TLE DRIVE, TLE SLOPES, TLE SLOPES, N89°21'07"E, 15', DETAIL NOT TO SCALE, 902+25.00, 193.13', N89°21'07"E, 905+00.00, 193.26', N89°21'07"E, 905+71.83, 199.26', 11, 2 AP, 1/16 LINE, 914+23.09, 204.63', 12, 2 AP, 110.24', N00°10'25"W, 45', N89°47'56"E, 45', N89°51'14"E, DETAIL NOT TO SCALE, 919+50.00, 205.05', 215.05', N89°52'00"E, 921+00.00, 205.05', 215.05', N89°52'00"E, TLE SLOPES, 922+50.00, 205.06', 1 AP, 10', 150', 250', 826.36', 13, 95.87', N44°52'08"E, 51+93.60, 39.02', 922+61.97, 210', SIGN, RW37, RW38, 45+23.93, 45', 33', RW36, 45+63.53, 45', 205.53', N45°23'33"W, NO ACCESS SEE PROJ. I 101-1(3), 33', PL 51+41.77 Y=191627.21 X=594216.59, R KRAUT RD., PL S88°58'15"E 2282.03', S88°42'36"E, 33', 55

I-94 RL
PI STA 912+10.89
Y 190479.73
X 593997.44
PC STA 906+96.33
PT STA 917+25.43
DELTA 0°32'52"
D 0°03'00"
L 1029.10'
R 114585.56'
LCH 1029.10'
LCB N 00°23'27" W



SHEET LOCATION

GN

SCALE, FEET
0 100 200

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

SCHEDULE OF LANDS & INTERESTS REQUIRED		OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.					
			R/W REQUIRED ACRES			T.L.E.	P.L.E.
PARCEL NUMBER	OWNER	INTEREST REQUIRED	NEW	EXISTING	TOTAL	TEMP. ACRES	PERM. ACRES
4	CLIFFORD K. & PATRICIA C. BURDETTE	Fee AR	0.046	0.000	0.046	0.000	0.000
5	ALAN B. & GENIENE M. GLODOWSKI	AR	0.000	0.000	0.000	0.000	0.000
6	JOSEPH L. & BARBARA A. LOVREK	AR	0.000	0.000	0.000	0.000	0.000
7	GEORGE & KATHRYN SEATER	Fee AR	0.307	0.000	0.307	0.000	0.000
8	JEFFREY J. & KRISTINE L. MARSH	Fee AR TLE	0.093	0.000	0.093	0.020	0.000
9	RACINE INSTINCTIVE BOWMEN INC.	Fee AR TLE	0.343	0.000	0.343	0.114	0.000
10	ED BROWN SR.	Fee AR	0.096	0.000	0.096	0.000	0.000
11	I-94 & ASSOCIATES	Fee AR TLE	0.735	2.627	3.362	0.110	0.000
12	VINCENT J. & THERESA N. TRENTADUE	Fee AR	0.353	1.852	2.205	0.000	0.000
13	STEPHEN & MARY SADLON	Fee AR TLE	0.292	1.397	1.689	0.034	0.000
58	THOMAS W. & JEAN T. MEYERS	Fee	0.016	0.000	0.016	0.000	0.000

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 NORTH, AND RAYMOND SOUTH. ALL DISTANCES ARE GROUND LENGTH.

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

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

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

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

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

DATE: 3-15-2011 — O E Andersen — Name Title

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 3-09-2011 — Paul Krause — Name PAUL KRAUSE

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1030-11-21 - 4.02
AMENDMENT NO:

DOCUMENT # 2281350
RACINE COUNTY REGISTER OF DEEDS
April 07, 2011 9:46 AM
JAMES A LADWIG
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: $25.00
Pages: 1
Vol 1

PSE

FILE NAME : J:\projects\d2_r_10301194\21\040402_rp.dgn PLOT DATE : 09-MAR-2011 11:48 PLOT BY : dotphk PLOT NAME : PLOT SCALE : 100.000000:1.000000

CONST.# 1030-11-77/78/79 I-94 1030-11-21 4.02

10301177-00008RDAPERM

TRANSPORTATION PROJECT PLAT NO: 1030-11-21 - 4.03

THAT PART OF THE SE1/4 OF THE SE1/4 AND THE NE1/4 OF THE SE1/4 OF SECTION 1, TOWNSHIP 03 NORTH, RANGE 21 EAST, TOWN OF YORKVILLE, AND THAT PART OF THE SW1/4 OF THE SW1/4 AND LOTS 1, & 2, OF CSM 2243, LOCATED IN AND INCLUDING THAT PART OF THE NW1/4 OF THE SW1/4 OF SECTION 6, TOWNSHIP 03 NORTH, RANGE 22 EAST, VILLAGE OF MT. PLEASANT, RACINE COUNTY, WISCONSIN.

RELOCATION ORDER I-94 AND FRONTAGE ROADS STH 20 TO CTH K SEGMENT RACINE COUNTY

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

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

CONVENTIONAL UTILITY SYMBOLS

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

CONVENTIONAL ABBREVIATIONS

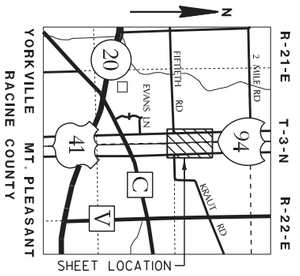
ACCESS POINT	AP	RELEASE OF RIGHTS	ROR	FOUND IRON PIPE/PIN	
ACCESS RIGHTS	AR	REMAINING	REM.		
ACRES	AC.	RIGHT-OF-WAY	R/W	R/W MONUMENT	
AND OTHERS	ET.AL.	SECTION	SEC.	R/W STANDARD	
CENTERLINE	C/L	STATION	STA.	SIGN	
CERTIFIED SURVEY MAP	CSM	TEMPORARY LIMITED EASEMENT	TLE	SECTION CORNER MONUMENT	
CORNER	COR.	VOLUME	V.	SECTION CORNER SYMBOL	
DOCUMENT	DOC.				
EASEMENT	EASE.			FEE (HATCH VARIES)	
HIGHWAY EASEMENT	H.E.			TEMPORARY LIMITED EASEMENT	
LAND CONTRACT	LC			PERMANENT LIMITED EASEMENT	
MONUMENT	MON.			R/W BOUNDARY POINT	
PAGE	P.			PARCEL NUMBER	
PERMANENT LIMITED EASEMENT	PLE			UTILITY PARCEL NUMBER	
PROPERTY LINE	PL			SIGN NUMBER (OFF PREMISE)	
RECORDED AS	(100')			BUILDING	
REFERENCE LINE	R/L				

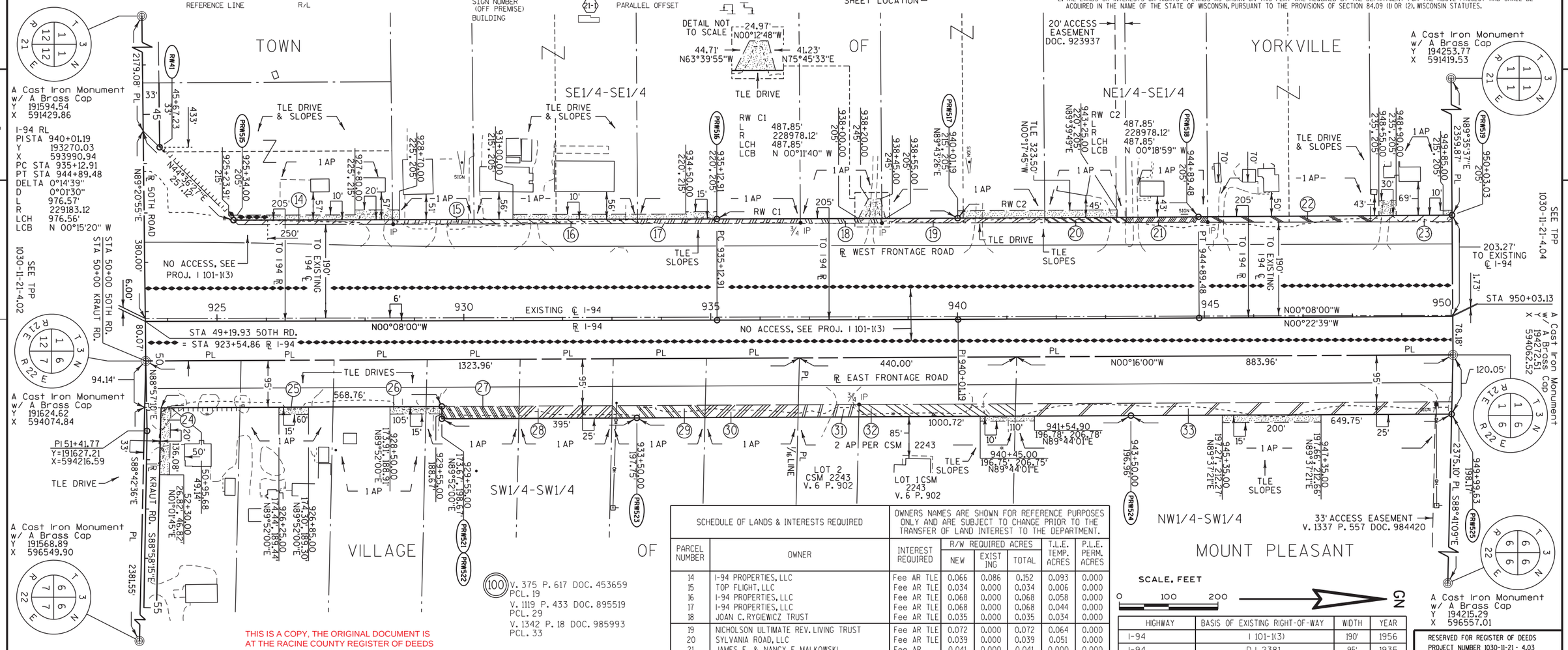
CURVE DATA

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE OR DELTA	DELTA
LENGTH OF CURVE	L
TANGENT	TAN

CONVENTIONAL SYMBOLS

(1" UNLESS NOTED)	PROPOSED R/W LINE
•(SET)	EXISTING H.E. LINE
▲(SET)	PROPERTY LINE
	LOT & TIE LINES
ISIGN	SLOPE INTERCEPTS
	CORPORATE LIMITS
	NO ACCESS (BY PREVIOUS ACQUISITION/CONTROL)
	NO ACCESS (BY ACQUISITION)
	NO ACCESS (BY STATUTORY AUTHORITY)
	SECTION LINE
RWB20	QUARTER LINE
102	SIXTEENTH LINE
32	EXISTING CENTERLINE
21	PROPOSED REFERENCE LINE
	PARALLEL OFFSET





SCHEDULE OF LANDS & INTERESTS REQUIRED		OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.					
PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED ACRES NEW	EXISTING	TOTAL	T.L.E. TEMP. ACRES	P.L.E. PERM. ACRES
14	I-94 PROPERTIES, LLC	Fee AR TLE	0.066	0.086	0.152	0.093	0.000
15	TOP FLIGHT, LLC	Fee AR TLE	0.034	0.000	0.034	0.006	0.000
16	I-94 PROPERTIES, LLC	Fee AR TLE	0.068	0.000	0.068	0.058	0.000
17	I-94 PROPERTIES, LLC	Fee AR TLE	0.068	0.000	0.068	0.044	0.000
18	JOAN C. RYGIEWICZ TRUST	Fee AR TLE	0.035	0.000	0.035	0.034	0.000
19	NICHOLSON ULTIMATE REV. LIVING TRUST	Fee AR TLE	0.072	0.000	0.072	0.064	0.000
20	SYLVANIA ROAD, LLC	Fee AR TLE	0.039	0.000	0.039	0.051	0.000
21	JAMES F. & NANCY E. MALKOWSKI	Fee AR	0.041	0.000	0.041	0.000	0.000
22	DWIGHT C. & MARJORIE A. LANGENFELD	Fee AR	0.090	0.000	0.090	0.000	0.000
23	JEFFREY & ANNETTE D'ACQUISTO	Fee AR TLE	0.049	0.000	0.049	0.028	0.000
24	SUSAN M. YAHNKE ET. AL.	Fee AR TLE	0.000	0.739	0.739	0.062	0.000
25	HARI OM RACINE, LLC	Fee AR TLE	0.000	0.411	0.411	0.021	0.000
26	DALE C. & MARION J. COLE	Fee AR TLE	0.000	0.411	0.411	0.025	0.000
27	WESLEY & MARY ANN BROWN	Fee AR TLE	0.090	0.411	0.501	0.011	0.000
28	PETER E. MOGENSEN III	Fee AR	0.108	0.411	0.519	0.000	0.000
29	GRANT AUTO SERVICE & SALES LTD.	Fee AR	0.108	0.411	0.519	0.000	0.000
30	LOUIS HOLLAND & ELZIE HIGGINBOTTOM	Fee AR	0.108	0.411	0.519	0.000	0.000
31	TOPPER MANUFACTURING BUILDING, LLC	Fee	0.071	0.000	0.071	0.000	0.000
32	BROWN INDUSTRIAL PROPERTIES LLC	Fee TLE	0.182	0.000	0.182	0.016	0.000
33	LOUIS HOLLAND & ELZIE HIGGINBOTTOM	Fee AR TLE	0.507	1.928	2.435	0.078	0.000
100	WE ENERGIES ELECTRIC	ROR	-----	-----	-----	-----	-----

(100) V. 375 P. 617 DOC. 453659 PCL. 19
V. 1119 P. 433 DOC. 895519 PCL. 29
V. 1342 P. 18 DOC. 985993 PCL. 33

SCALE, FEET
0 100 200
GN

HIGHWAY	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
I-94	I 101-1(3)	190'	1956
I-94	DJ 2381	95'	1935
I-94	CSM 2243	95'	2000
50TH ROAD	YORKVILLE V. 1 P. 197	66'	1852
KRAUT ROAD	MT. PLEASANT V. B P. 81	66'	1851

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 NORTH, AND RAYMOND SOUTH. ALL DISTANCES ARE GROUND LENGTH.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL¾" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY WISDOT SE REGION SURVEY UNIT.

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

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

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

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

DATE: 3-15-2011 — Name / Title: O.E. Andersen

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 3-09-2011 — Name PAUL KRAUSE: Paul Krause

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1030-11-21 - 4.03
AMENDMENT NO:

DOCUMENT # 2281351
RACINE COUNTY REGISTER OF DEEDS
April 07, 2011 9:46 AM
JAMES A LADWIG
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: $25.00
Pages: 1
Vol 1 Pg 164

PSE

FILE NAME : J:\projects\d2_r_10301194\21\040403_rp.dgn
PLOT DATE : 09-MAR-2011 11:33
PLOT BY : dotphk
PLOT NAME :
PLOT SCALE : 100.000000:1.000000
CONST.# 1030-11-77/78/79
I-94 1030-11-21 4.03

10301177-00008RDAPERM

TRANSPORTATION PROJECT PLAT NO: 1030-11-21 - 4.04

THAT PART OF PARCELS 1, & 2, OF CSM 2773, LOCATED IN AND INCLUDING THAT PART OF THE NE1/4 OF THE NE1/4 AND CSM 1930, LOCATED IN AND INCLUDING THAT PART OF THE SE1/4 OF THE NE1/4 OF SECTION 1, TOWNSHIP 03 NORTH, RANGE 21 EAST, TOWN OF YORKVILLE, AND THAT PART OF THE SW1/4 OF THE NW1/4 AND THE NW1/4 OF THE NW1/4 OF SECTION 6, TOWNSHIP 03 NORTH, RANGE 22 EAST, VILLAGE OF MT. PLEASANT, RACINE COUNTY, WISCONSIN.

RELOCATION ORDER I-94 AND FRONTAGE ROADS STH 20 TO CTH K SEGMENT RACINE COUNTY

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

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
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CONVENTIONAL UTILITY SYMBOLS

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

CONVENTIONAL ABBREVIATIONS

ACCESS POINT	AP	RELEASE OF RIGHTS	ROR
ACCESS RIGHTS	AR	REMAINING	REM.
ACRES	AC.	RIGHT-OF-WAY	R/W
AND OTHERS	ET.AL.	SECTION	SEC.
CENTERLINE	C/L	STATION	STA.
CERTIFIED SURVEY MAP	CSM	TEMPORARY LIMITED EASEMENT	TLE
CORNER	COR.	VOLUME	V.
DOCUMENT	DOC.		
EASEMENT	EASE.		
HIGHWAY EASEMENT	H.E.		
LAND CONTRACT	LC		
MONUMENT	MON.		
PAGE	P.		
PERMANENT LIMITED EASEMENT	PLE		
PROPERTY LINE	PL		
RECORDED AS	(100')		
REFERENCE LINE	R/L		

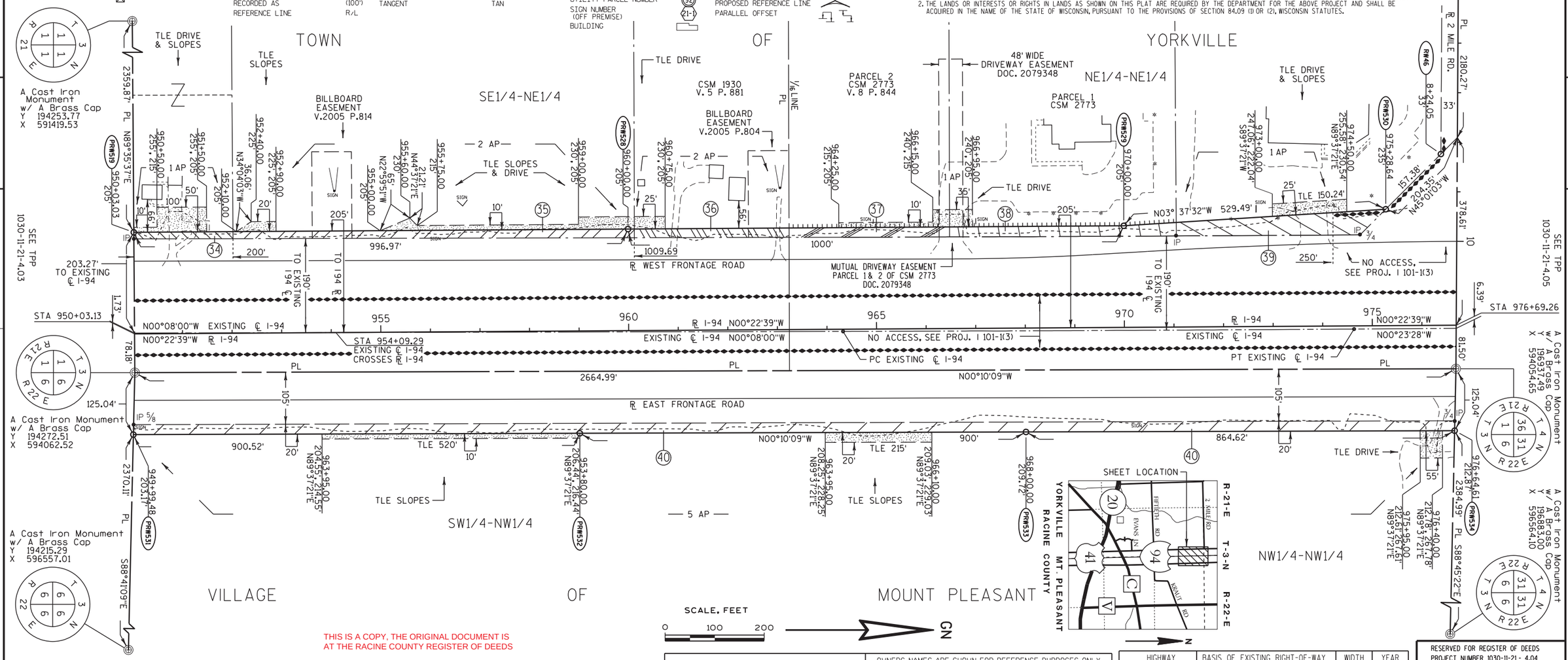
CURVE DATA

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE OR DELTA	DELTA
LENGTH OF CURVE	L
TANGENT	TAN

CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN (1" UNLESS NOTED)
R/W MONUMENT
R/W STANDARD
SIGN
SECTION CORNER MONUMENT
SECTION CORNER SYMBOL
FEE (HATCH VARIES)
TEMPORARY LIMITED EASEMENT
PERMANENT LIMITED EASEMENT
R/W BOUNDARY POINT
PARCEL NUMBER
UTILITY PARCEL NUMBER
SIGN NUMBER (OFF PREMISE)
BUILDING

PROPOSED R/W LINE
EXISTING H.E. LINE
PROPERTY LINE
LOT & TIE LINES
SLOPE INTERCEPTS
CORPORATE LIMITS
NO ACCESS (BY PREVIOUS ACQUISITION/CONTROL)
NO ACCESS (BY ACQUISITION)
NO ACCESS (BY STATUTORY AUTHORITY)
SECTION LINE
QUARTER LINE
SIXTEENTH LINE
EXISTING CENTERLINE
PROPOSED REFERENCE LINE
PARALLEL OFFSET



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NOTES:

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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.						
			R/W REQUIRED ACRES					
PARCEL NUMBER	OWNER	INTEREST REQUIRED	NEW	EXISTING	TOTAL	T.L.E. TEMP. ACRES	P.L.E. PERM. ACRES	
34	SHARRIE L. MARTIN	Fee AR TLE	0.063	0.000	0.063	0.126	0.000	
35	TCTS LLC	Fee AR TLE	0.295	0.000	0.295	0.193	0.000	
36	DAVID G. SHERRY JR.	Fee AR TLE	0.131	0.000	0.131	0.036	0.000	
37	LEE FOURNIER REAL ESTATE LLC	Fee AR TLE	0.145	0.000	0.145	0.071	0.000	
38	RK RACINE LLC	Fee AR TLE	0.225	0.000	0.225	0.037	0.000	
39	ROLAND PROPERTIES LLC	Fee AR TLE	0.352	0.000	0.352	0.086	0.000	
40	HINTZ REAL ESTATE DEVELOPMENT CO. LLC	Fee AR TLE	1.224	6.424	7.648	0.275	0.000	

HIGHWAY	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
I-94	I 101-1(3)	190'	1956
I-94	DJ 2381	95'	1935
2 MILE ROAD	YORKVILLE V. 1 P. 130	66'	1848

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DATE: 3-15-2011 — D E Andersen — Name Title

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 3-08-2011 — Paul K Krause — Name PAUL KRAUSE

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1030-11-21 - 4.04
AMENDMENT NO:

DOCUMENT # 2281352
RACINE COUNTY REGISTER OF DEEDS
April 07, 2011 9:46 AM
JAMES A LADWIG
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: $55.00
Pages: 1
Vol 1

FILE NAME : J:\projects\d2_r_10301194\21\040404_rp.dgn PLOT DATE : 09-MAR-2011 11:34 PLOT BY : dotphk PLOT NAME : PLOT SCALE : 100.000000:1.000000

CONST.# 1030-11-77/78/79 I-94 1030-11-21 4.04

PSE

10301177-00008RDAPERM

TRANSPORTATION PROJECT PLAT NO: 1030-11-21 - 4.05

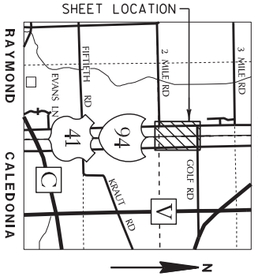
THAT PART OF THE SE1/4 OF THE SE1/4 AND THE NE1/4 OF THE SE1/4 OF SECTION 36, TOWNSHIP 04 NORTH, RANGE 21 EAST, TOWN OF RAYMOND AND THAT PART OF THE SW1/4 OF THE SW1/4 AND THE NW1/4 OF THE SW1/4 OF SECTION 31, TOWNSHIP 04 NORTH, RANGE 22 EAST, VILLAGE OF CALEDONIA, RACINE COUNTY, WISCONSIN.

RELOCATION ORDER I-94 AND FRONTAGE ROADS STH 20 TO CTH K SEGMENT RACINE COUNTY

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SHEET LOCATION



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			

CONVENTIONAL ABBREVIATIONS

ACCESS POINT	AP	RELEASE OF RIGHTS	ROR	FOUND IRON PIPE/PIN	
ACCESS RIGHTS	AR	REMAINING	REM.		
ACRES	AC.	RIGHT-OF-WAY	R/W	R/W MONUMENT	
AND OTHERS	ET.AL.	SECTION	SEC.	R/W STANDARD	
CENTERLINE	C/L	STATION	STA.	SIGN	
CERTIFIED SURVEY MAP	CSM	TEMPORARY LIMITED EASEMENT	TLE	SECTION CORNER MONUMENT	
CORNER	COR.	VOLUME	V.	SECTION CORNER SYMBOL	
DOCUMENT	DOC.				
EASEMENT	EASE.	CURVE DATA		FEE (HATCH VARIES)	
HIGHWAY EASEMENT	H.E.	LONG CHORD	LCH	TEMPORARY LIMITED EASEMENT	
LAND CONTRACT	LC	LONG CHORD BEARING	LCB	PERMANENT LIMITED EASEMENT	
MONUMENT	MON.	RADIUS	R	R/W BOUNDARY POINT	
PAGE	P.	DEGREE OF CURVE	D	PARCEL NUMBER	
PERMANENT LIMITED EASEMENT	PLE	CENTRAL ANGLE OR DELTA	DELTA		
PROPERTY LINE	PL	LENGTH OF CURVE	L	UTILITY PARCEL NUMBER	
RECORDED AS	(100')	TANGENT	TAN	SIGN NUMBER (OFF PREMISE)	
REFERENCE LINE	R/L			BUILDING	

CONVENTIONAL SYMBOLS

	PROPOSED R/W LINE
(1" UNLESS NOTED)	EXISTING H.E. LINE
●(SET)	PROPERTY LINE
▲(SET)	LOT & TIE LINES
ISIGN	SLOPE INTERCEPTS
	CORPORATE LIMITS
	NO ACCESS (BY PREVIOUS ACQUISITION/CONTROL)
	NO ACCESS (BY ACQUISITION)
	NO ACCESS (BY STATUTORY AUTHORITY)
	SECTION LINE
RWB20	QUARTER LINE
102	SIXTEENTH LINE
92	EXISTING CENTERLINE
21-1	PROPOSED REFERENCE LINE
	PARALLEL OFFSET

A Cast Iron Monument w/ A Brass Cap Y 196953.48 X 591407.93

TOWN OF RAYMOND

SE1/4-SE1/4 — NE1/4-SE1/4

SW1/4-SW1/4 — NW1/4-SW1/4

VILLAGE OF CALEDONIA

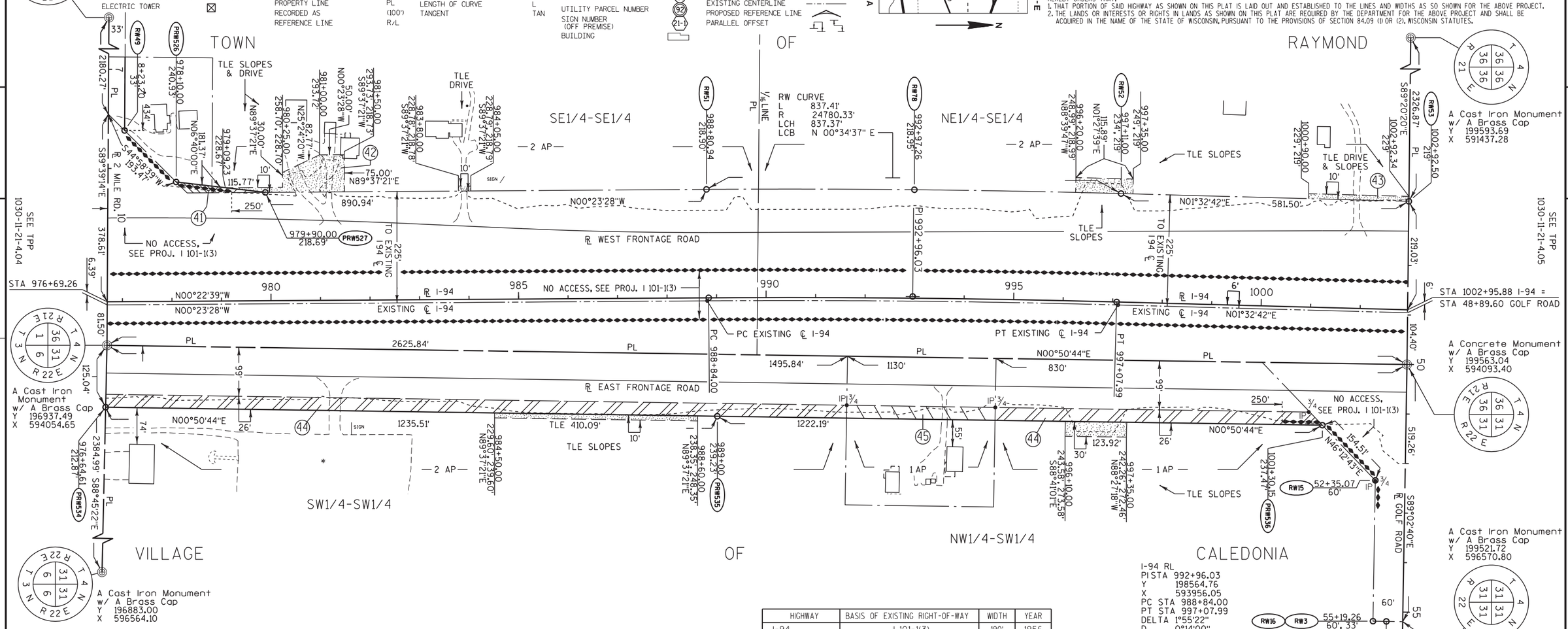
A Cast Iron Monument w/ A Brass Cap Y 196883.00 X 596564.10

A Cast Iron Monument w/ A Brass Cap Y 199593.69 X 591437.28

A Concrete Monument w/ A Brass Cap Y 199563.04 X 594093.40

A Cast Iron Monument w/ A Brass Cap Y 199521.72 X 596570.80

A Cast Iron Monument w/ A Brass Cap Y 196937.49 X 594054.65



HIGHWAY	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
I-94	I 101-1(3)	190'	1956
I-94	DJ 2381	95'	1935
2 MILE ROAD	YORKVILLE V. 1 P. 130	66'	1848
GOLF ROAD	I 101-1 (3)	120'	1956
GOLF ROAD	SS 82.31(2)	66'	

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SCHEDULE OF LANDS & INTERESTS REQUIRED		OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.					
PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED ACRES NEW	EXISTING	TOTAL	T.L.E. TEMP. ACRES	P.L.E. PERM. ACRES
41	DICK KNEPPER LIVING TRUST	Fee	0.024	0.100	0.124	0.000	0.000
42	HILARY C. & JUDITH A. LANGE FAMILY TRUST	Fee AR TLE	0.017	0.000	0.017	0.208	0.000
43	SHARON R. BUCKAU FAMILY TRUST	AR TLE	0.000	0.000	0.000	0.126	0.000
44	HINTZ REAL ESTATE DEVELOPMENT CO. LLC	Fee AR TLE	1.280	4.733	6.013	0.179	0.000
45	HINTZ REAL ESTATE DEVELOPMENT CO. LLC	Fee AR	0.179	0.682	0.861	0.000	0.000

I-94 RL
PI STA 992+96.03
Y 198564.76
X 593956.05
PC STA 988+84.00
PT STA 997+07.99
DELTA 1°55'22"
D 0°14'00"
L 824.00'
R 24555.33'
LCH 823.96'
LCB N 00°35'02" E

SCALE, FEET

0 100 200

GN

NOTES:

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DATE: 3-15-2011 — O E Andersen — Name Title

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 3-09-2011 — Paul Krause — Name PAUL KRAUSE

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1030-11-21 - 4.05
AMENDMENT NO:

DOCUMENT # 2281353
RACINE COUNTY REGISTER OF DEEDS
April 07, 2011 9:46 AM
JAMES A LADWIG
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Fee Amount: $25.00
Pages: 1
Vol Pg 166

PSE

FILE NAME : J:\projects\d2_r_10301194\21\040405_rp.dgn PLOT DATE : 09-MAR-2011 14:46 PLOT BY : dotphk PLOT NAME : PLOT SCALE : 100.000000:1.000000

CONST.# 1030-11-77/78/79 I-94 1030-11-21 4.05

10301177-00008RDAPERM

TRANSPORTATION PROJECT PLAT NO: 1030-11-21 - 4.06

THAT PART OF THE SE1/4 OF THE NE1/4 AND THE NE1/4 OF THE NE1/4 OF SECTION 36, TOWNSHIP 04 NORTH, RANGE 21 EAST, TOWN OF RAYMOND AND THAT PART OF THE SW1/4 OF THE NW1/4 AND THE NW1/4 OF THE NW1/4 OF SECTION 31, TOWNSHIP 04 NORTH, RANGE 22 EAST, VILLAGE OF CALEDONIA, RACINE COUNTY, WISCONSIN.

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CONVENTIONAL UTILITY SYMBOLS

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

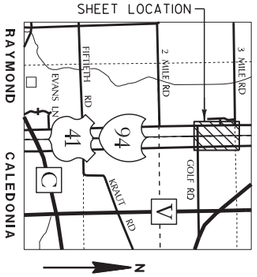
CONVENTIONAL ABBREVIATIONS

ACCESS POINT	AP	RELEASE OF RIGHTS	ROR	FOUND IRON PIPE/PIN	
ACCESS RIGHTS	AR	REMAINING	REM.		
ACRES	AC.	RIGHT-OF-WAY	R/W	R/W MONUMENT	
AND OTHERS	ET.AL.	SECTION	SEC.	R/W STANDARD	
CENTERLINE	C/L	STATION	STA.	SIGN	
CERTIFIED SURVEY MAP	CSM	TEMPORARY LIMITED EASEMENT	TLE	SECTION CORNER MONUMENT	
CORNER	COR.	VOLUME	V.	SECTION CORNER SYMBOL	
DOCUMENT	DOC.				
EASEMENT	EASE.	CURVE DATA		FEE (HATCH VARIES)	
HIGHWAY EASEMENT	H.E.	LONG CHORD	LCH	TEMPORARY LIMITED EASEMENT	
LAND CONTRACT	LC	LONG CHORD BEARING	LCB	PERMANENT LIMITED EASEMENT	
MONUMENT	MON.	RADIUS	R	R/W BOUNDARY POINT	
PAGE	P.	DEGREE OF CURVE	D	PARCEL NUMBER	
PERMANENT LIMITED EASEMENT	PLE	CENTRAL ANGLE OR DELTA	DELTA		
PROPERTY LINE	PL	LENGTH OF CURVE	L	UTILITY PARCEL NUMBER	
RECORDED AS	(100')	TANGENT	TAN	SIGN NUMBER (OFF PREMISE)	
REFERENCE LINE	R/L			BUILDING	

CONVENTIONAL SYMBOLS

(1" UNLESS NOTED)	PROPOSED R/W LINE
•(SET)	EXISTING H.E. LINE
▲(SET)	PROPERTY LINE
	LOT & TIE LINES
ISIGN	SLOPE INTERCEPTS
	CORPORATE LIMITS
	NO ACCESS (BY PREVIOUS ACQUISITION/CONTROL)
	NO ACCESS (BY ACQUISITION)
	NO ACCESS (BY STATUTORY AUTHORITY)
	SECTION LINE
RWB20	QUARTER LINE
102	SIXTEENTH LINE
92	EXISTING CENTERLINE
21	PROPOSED REFERENCE LINE
	PARALLEL OFFSET

SHEET LOCATION



A Cast Iron Monument w/ A Brass Cap
Y 199593.69
X 591437.28

T 4 N R 21 E Sec 36

A Cast Iron Monument w/ A Brass Cap
Y 202239.33
X 591473.71

T 4 N R 21 E Sec 25

A Cast Iron Monument w/ A Brass Cap
Y 202203.35
X 594134.08

T 4 N R 22 E Sec 30

A Concrete Monument w/ A Brass Cap
Y 199563.04
X 594093.40

T 4 N R 22 E Sec 31

A Cast Iron Monument w/ A Brass Cap
Y 199521.72
X 596570.80

T 4 N R 22 E Sec 31

A Cast Iron Monument w/ A Brass Cap
Y 202159.19
X 596584.00

T 4 N R 22 E Sec 30

TOWN OF RAYMOND — VILLAGE OF CALEDONIA

SE1/4-NE1/4 | NE1/4-NE1/4 | SW1/4-NW1/4 | NW1/4-NW1/4

DETAIL NOT TO SCALE

RW C1: L 293.83' R 57069.78' LCH 293.83' LCB N 01°23'51" E

RW C2: L 219.36' R 57044.78' LCH 219.36' LCB N 01°08'24" E

RW C3: L 334.33' R 57074.78' LCH 334.33' LCB N 00°45'44" E

S89°20'20"E PL 2316.87'

TLE SLOPES & DRIVE

1 AP

PRW540 1002+92.34 229.00'

PRW541 1004+00.00 250.00'

PRW542 1007+30.00 250.00'

PRW543 1008+00.00 220.00'

PRW544 1010+95.03 220.00'

PRW545 1017+90.00 245.22'

PRW546 1018+00.00 42.55'

PRW547 1020+10.30 42.68'

PRW548 1020+77.86 315.00'

PRW549 1021+10.00 215.00'

PRW550 1026+25.00 230.21'

PRW551 1027+50.00 230.00'

PRW552 1028+50.00 230.00'

PRW553 28+48.25 40.33'

PRW554 27+00.00 40.33'

PRW555 1024+45.59 215.00'

PRW556

PRW537 1004+76.22 228.33'

PRW538 1012+00.00 219.96'

PRW539 1022+17.12 212.73'

PRW479 1025+72.84 244.70'

PRW560 1029+36.33 245.45'

RW18 52+36.14 60'

RW2 55+19.26 33', 60'

RW17

1598.49'

519.26'

229.03'

104.40'

2640.62'

723.83'

300.02'

1019.85'

358.05'

362.56'

149.56'

89.90'

2121.59' PL

2300.76' PL

443.13' TO ℄ I-94

STA 1029+36.84 END OF PROJECT

N00°52'57"E

N00°35'40"E

N00°42'49"E

N05°47'25"E

S89°13'30"E

S88°58'03"E

S88°00'32"E

N43°47'17"W 165.31'

N53°05'29"E 80.67'

N73°12'26"E 104.99'

N01°32'42"E

N01°25'30"E

S88°36'00"E

N88°45'00"W

S88°36'00"E

N88°33'00"W

NO ACCESS, SEE PROJ. I 101-1(3)

NO ACCESS, ¾" IP SEE PROJ. I 101-1(3)

NO ACCESS, SEE PROJ. I 101-1(3)

PC EXISTING ℄ I-94

PT EXISTING ℄ I-94

EXISTING ℄ I-94

℄ I-94

℄ EAST FRONTAGE ROAD

℄ WEST FRONTAGE ROAD

℄ GOLF ROAD

℄ NICHOLAS STREET

℄ 3 MILE ROAD

TLE SLOPES & DRIVES

TLE SLOPES

TLE DRIVE

200' TO EXISTING 194 ℄

220' TO EXISTING 194 ℄

PC 1014+95.03

PI 1019+70.32

PT 1024+45.59

I-94 RL
PISTA 1019+70.32
Y 201238.16
X 594028.16
PC STA 1014+95.03
PT STA 1024+45.59
DELTA 0°57'02"
D 0°06'00"
L 950.56'
R 57289.78'
LCH 950.55'
LCB N 01°04'11" E

STA 1002+95.88 ℄ I-94 = STA 48+89.60 GOLF ROAD

SEE TPP 1030-11-21-4.05

(100) NO RECORDED EASEMENT PCL 46, 51 V. 2404 P. 423 DOC. 1481350 PCL 51 V. 1965 P. 79 DOC. 1284399 PCL. 53 V. 2049 P. 749 DOC. 1329139 PCL. 54

(103) NO RECORDED EASEMENT PCL. 46, 55 V. 2404 P. 423 DOC. 1481350 PCL. 51 V. 1965 P. 79 DOC. 1284399 PCL. 53 V. 2034 P. 335 DOC. 1320973 PCL. 53 V. 2049 P. 749 DOC. 1329139 PCL. 54

3 AP

DOT REGION NOTE:

THE SECTION CORNER LOCATION FOR THE NE CORNER OF SEC. 36-4-24 ON I-101-1(3) WAS NOT SHOWN ACCURATELY. THE FIELD DISTANCE FROM THE SECTION CORNER LOCATION TO THE CENTERLINE OF I-94 SHOULD HAVE BEEN LISTED AS 89.90 FEET RATHER THAN 95.44 FEET. THE SECTION CORNER LOCATION DID NOT MOVE, THE TIE DISTANCE WAS SHOWN INCORRECTLY.

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

SCALE, FEET

0 100 200 GN

SCHEDULE OF LANDS & INTERESTS REQUIRED			OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.					
			R/W REQUIRED ACRES					
PARCEL NUMBER	OWNER	INTEREST REQUIRED	NEW	EXISTING	TOTAL	T.L.E. TEMP. ACRES	P.L.E. PERM. ACRES	
46	ALLEN R. & KATHRYN L. GEORGE	Fee AR TLE	0.399	0.000	0.399	0.040	0.000	
47	ALLEN R. & KATHRYN L. GEORGE	Fee AR TLE	0.184	0.000	0.184	0.026	0.000	
48	JEAN ANN ANDERSEN	Fee AR	0.134	0.000	0.134	0.000	0.000	
49	JAY D. McCOLLUM	Fee AR TLE	0.072	0.000	0.072	0.026	0.000	
50	WAYNE G. & LINDA M. DUENSING	Fee AR TLE	0.137	0.000	0.137	0.053	0.000	
51	LESTER & MADONNA WRIGHT	Fee AR TLE	0.180	0.000	0.180	0.063	0.000	
52	JEFFREY J. KOSTROSKI	Fee AR TLE	0.343	0.000	0.343	0.026	0.000	
53	MVLG VENTURES LLC	Fee AR	0.195	0.000	0.195	0.000	0.000	
54	INDVEST LLC	Fee AR	0.130	0.000	0.130	0.000	0.000	
55	INDVEST LLC	Fee AR	0.162	0.057	0.219	0.000	0.000	
56	HILLSIDE DEVELOPMENT OF CALEDONIA LP	Fee AR TLE	0.777	3.245	4.022	0.069	0.000	
100	WE ENERGIES ELECTRIC	ROR	-----	-----	-----	-----	-----	
103	AT&T WISCONSIN	ROR	-----	-----	-----	-----	-----	

HIGHWAY	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
I-94	I 101-1(3)	190'	1956
I-94	2381	95'	1935
GOLF ROAD	I 101-1 (3)	120'	1956
GOLF ROAD	SS 82.31(2)	66'	
3 MILE ROAD	RACINE REGISTER 299	66'	1847
NICHOLAS ST.	DOC. 1441665	66'	1993

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

DATE: 3-15-2011 — Name / Title

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 3-09-2011 — Name PAUL KRAUSE

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1030-11-21 - 4.06
AMENDMENT NO:

DOCUMENT # 2281354
RACINE COUNTY REGISTER OF DEEDS
April 07, 2011 9:46 AM
JAMES A LADWIG
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: $25.00
Pages: 1
Vol 1 Pg 167

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 NORTH, AND RAYMOND SOUTH. ALL DISTANCES ARE GROUND LENGTH.

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

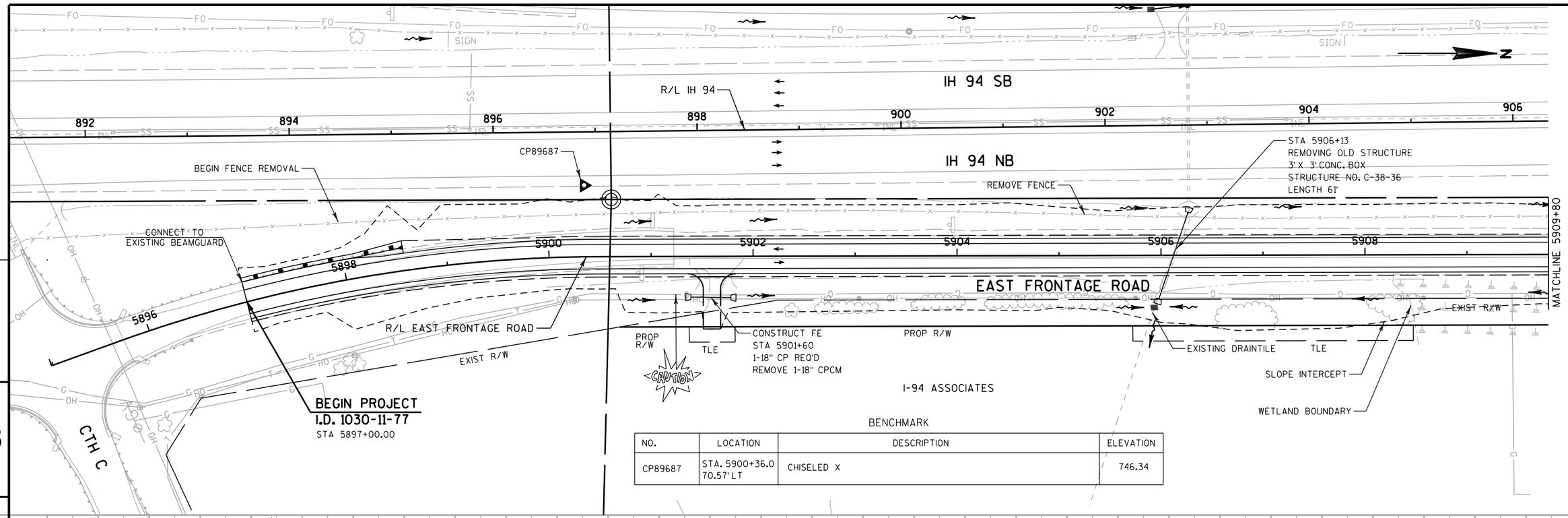
RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS OF PUBLIC RECORD".

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

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

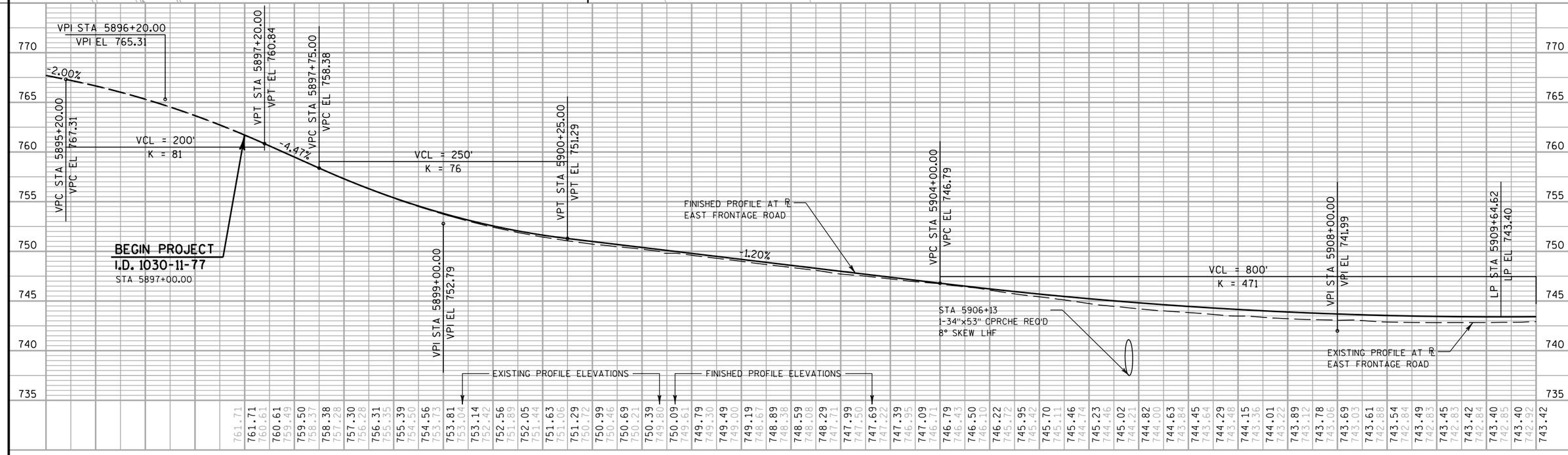
A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY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

10301177-00008RDAPERM



BENCHMARK

NO.	LOCATION	DESCRIPTION	ELEVATION
CP89687	STA. 5900+36.0 70.57' LT	CHISELED X	746.34



PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	PLAN & PROFILE: EAST FRONTAGE ROAD	SHEET 239	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\050101_pp.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : $FILE$ | PLOT SCALE : 1:100

10301177-00008RDAPERM

IH 94 SB

IH 94 NB

R/L IH 94

EAST FRONTAGE ROAD

MATCHLINE 5909+80

MATCHLINE 5925+00

EXIST R/W

PROP R/W

CONSTRUCT FE
STA 5914+15.00
1-18" CP REQ'D
REMOVE 1-18" CPCM

R/L EAST FRONTAGE ROAD

WETLAND BOUNDARY

CAUTION

SLOPE INTERCEPT

I-94 ASSOCIATES

TRENTADUE

STA 5921+18
REMOVE OLD STRUCTURE TO EX. INLET
4.5' X 4.0' CONC. BOX
STRUCTURE NO. C-37-36
LENGTH 58'

REMOVE FENCE

RIPRAP

TLE

SADLON

SIGN

N

5

5

VPT STA 5912+00.00
VPT EL 743.99

VCL = 800'
K = 471

FINISHED PROFILE AT ℄
EAST FRONTAGE ROAD

EXISTING PROFILE AT ℄
EAST FRONTAGE ROAD

0.50%

VCL = 800'
K = 678

VPC STA 5923+85.00
VPC EL 749.92

STA 5910+00
1-24" CPRC REQ'D

EXISTING PROFILE ELEVATIONS

FINISHED PROFILE ELEVATIONS

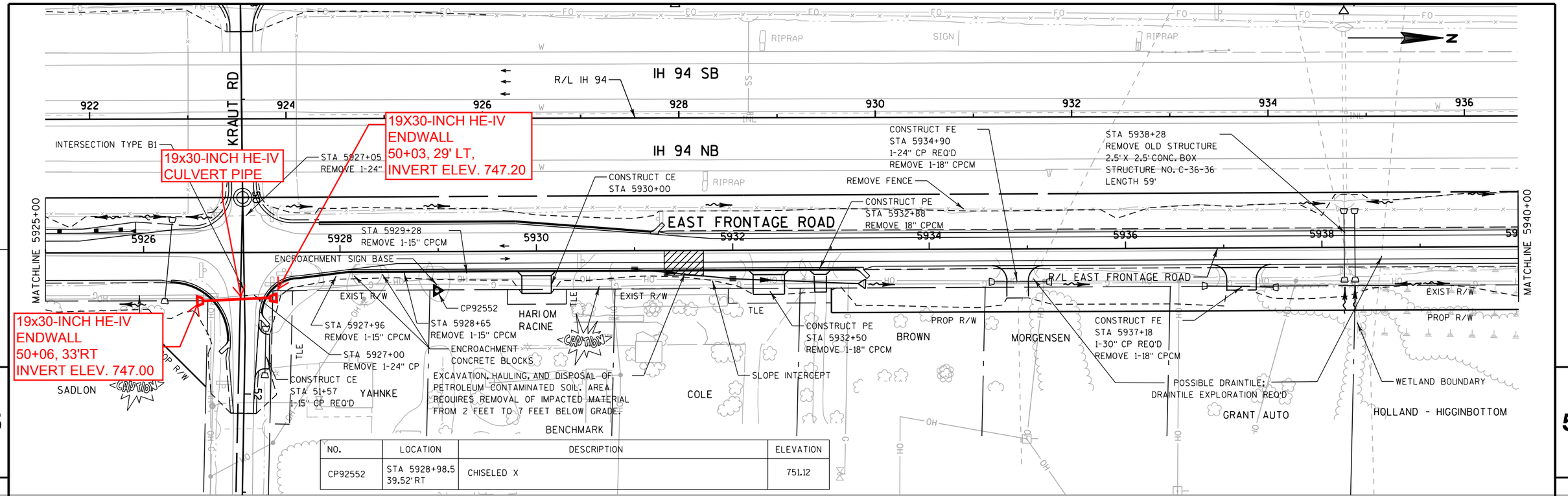
5910	5912	5914	5916	5918	5920	5922	5924	5925
742.92	743.42	743.44	743.48	743.53	743.60	743.68	743.77	743.87	743.99	744.12	744.24	744.37	744.49	744.62	744.74	744.87	744.99	745.12	745.24	745.37	745.49	745.62	745.74	745.87	745.99	746.12	746.24	746.37	746.49	746.62	746.74	746.87	746.99	747.12	747.24	747.37	747.49	747.62	747.74	747.87	747.99	748.12	748.24	748.37	748.49	748.62	748.74	748.87	748.99	749.12	749.24	749.37	749.49	749.62	749.74	749.87	749.99	750.11	750.21	750.31	750.40
	743.00	743.13	743.25	743.36	743.46	743.52	743.60	743.72	743.85	743.99	744.15	744.19	744.30	744.49	744.54	744.71	744.91	744.97	745.03	745.15	745.25	745.38	745.50	745.58	745.68	745.80	745.75	746.00	746.32	746.49	746.64	746.79	746.91	747.01	747.11	747.25	747.42	747.54	747.62	747.71	747.82	747.91	748.00	748.08	748.19	748.28	748.38	748.48	748.65	748.83	748.99	749.09	749.20	749.34	749.48	749.59	749.72	749.83	749.95	749.94	

760	755	750	745	740	735	730	725

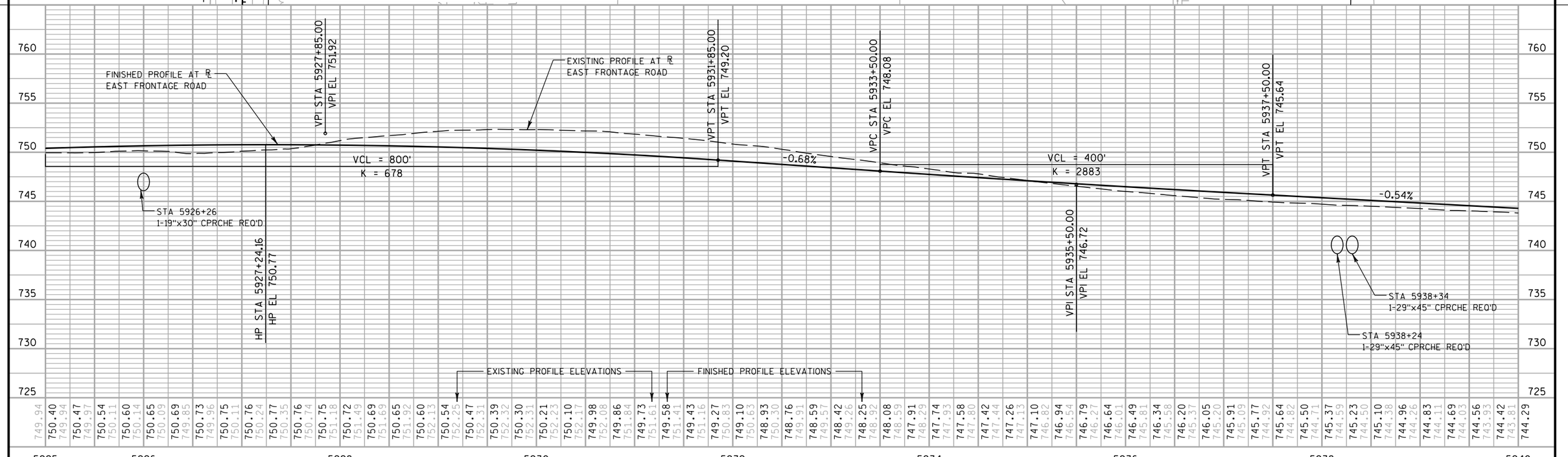
PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	PLAN & PROFILE: EAST FRONTAGE ROAD	SHEET 240	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\050102_pp.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:100

WISDOT/CADDS SHEET 40



NO.	LOCATION	DESCRIPTION	ELEVATION
CP92552	STA 5928+98.5 39.52' RT	CHISELED X	751.12



PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	PLAN & PROFILE: EAST FRONTAGE ROAD	SHEET 241	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\050103_pp.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : $FILE$ | PLOT SCALE : 1:100

10301177-00008RDAPERM

IH 94 SB

IH 94 NB

R/L IH 94

WETLAND BOUNDARY

CONSTRUCT CE
STA 5941+15
1-24" CP REQ'D
REMOVE 1-18" CPCM

CONSTRUCT CE
STA 5943+86
1-24" CP REQ'D
REMOVE 1-18" CPCM

STA 5945+28
REMOVE OLD STRUCTURE
2'X 3'CONC. BOX
STRUCTURE NO. C-35-36
LENGTH 58'

REMOVE FENCE

STA 5954+68
REMOVE OLD STRUCTURE
4'X 6'CONC. BOX
STRUCTURE NO. C-34-36
LENGTH 60'

REMOVE INLET

MATCHLINE 5940+00

MATCHLINE 5955+00

EAST FRONTAGE ROAD

938 940 942 944 946 948 950

940 5942 5944 5946 5948 5950 5952 5954

REMOVE FENCE

R/L EAST FRONTAGE ROAD

EXIST R/W

PROP R/W

TLE

ENCROACHMENT
FENCE AND GATE

WETLAND
BOUNDARY

ENCROACHMENT
FENCE AND GATE

SLOPE INTERCEPT

HOLLAND - HIGGINBOTTOM

WETLAND BOUNDARY

CONSTRUCT CE
STA 5953+30
2-24" CP REQ'D
REMOVE 1-18" CPCM

WETLAND BOUNDARY

TOPPER
MANUFACTURING
BUILDING

BROWN INDUSTRIAL

CAUTION

HINTZ REAL ESTATE

BENCHMARK

NO.	LOCATION	DESCRIPTION	ELEVATION
SEC3026	STA 5953+49.0 56.00' LT	SECTION CORNER MONUMENT	732.38

FINISHED PROFILE AT ℄
EAST FRONTAGE ROAD

EXISTING PROFILE AT ℄
EAST FRONTAGE ROAD

-0.54%

VPC STA 5952+00.00
VPC EL 737.79

VCL = 800'
K = 590

STA 5945+28
1-29"x45" CPRCHE REQ'D

750 745 740 735 730 725 720 715

EXISTING PROFILE ELEVATIONS

FINISHED PROFILE ELEVATIONS

5940	5942	5944	5946	5948	5950	5952	5954
743.81	744.29 / 743.65	744.15 / 743.53	744.02 / 743.41	743.88 / 743.09	743.74 / 743.06	743.61 / 742.94	743.47 / 742.83
743.34 / 742.66	743.20 / 742.45	743.07 / 742.36	742.93 / 742.23	742.80 / 742.12	742.66 / 741.96	742.53 / 741.78	742.39 / 741.61
742.26 / 741.57	742.12 / 741.51	741.99 / 741.37	741.85 / 741.24	741.72 / 741.12	741.58 / 740.97	741.45 / 740.85	741.31 / 740.70
741.17 / 740.56	741.04 / 740.53	740.90 / 740.45	740.77 / 740.30	740.63 / 740.20	740.50 / 740.05	740.36 / 739.95	740.23 / 739.84
740.09 / 739.69	739.96 / 739.56	739.82 / 739.41	739.69 / 739.30	739.55 / 739.19	739.42 / 739.06	739.28 / 738.92	739.15 / 738.77
739.01 / 738.59	738.88 / 738.44	738.74 / 738.30	738.61 / 738.19	738.47 / 738.07	738.33 / 737.87	738.20 / 737.73	738.06 / 737.57
737.93 / 737.39	737.79 / 737.23	737.66 / 737.08	737.54 / 736.76	737.44 / 736.60	737.34 / 736.53	737.25 / 736.47	737.17 / 736.44
737.11 / 736.34	737.05 / 736.24	737.01 / 736.12	736.97 / 736.02	736.95 / 735.92	736.93		

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	PLAN & PROFILE: EAST FRONTAGE ROAD	SHEET 242	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\050104_pp.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:100

WISDOT/CADDS SHEET 40

IH 94 SB

IH 94 NB

EAST FRONTAGE ROAD

952 954 956 958 960 962 964 966

5956 5958 5960 5962 5964 5966 5968 5970

R/L IH 94

R/L EAST FRONTAGE ROAD

MATCHLINE 5955+00

MATCHLINE 5970+00

WETLAND BOUNDARY

REMOVE INLET

REMOVE STORM SEWER

REMOVE INLET

STA 5960+22
REMOVE OLD STRUCTURE
4.5' X 6' CONC. BOX
STRUCTURE NO. C-33-36
LENGTH 100'

REMOVE FENCE

EXIST R/W

PROP R/W

TLE

SLOPE INTERCEPT

ENCROACHMENT SIGN

HINTZ REAL ESTATE

WETLAND BOUNDARY

POSSIBLE 10" DRAINTILE;
DRAINTILE EXPLORATION REQUIRED.

CAUTION

STA. 5956+70RT
CONSTRUCT F.E.

STA. 5967+00RT
CONSTRUCT F.E.
18" CP REQUIRED

LP STA 5955+19.00
LP EL 736.93

VCL = 800'
K = 590

VPI STA 5956+00.00
VPI EL 735.63

VPT STA 5960+00.00
VPT EL 738.89

STA 5957+25
1-24" CPRC REQ'D

EXISTING PROFILE AT ℄
EAST FRONTAGE ROAD

FINISHED PROFILE AT ℄
EAST FRONTAGE ROAD

0.82%

VPC STA 5969+60.00
VPC EL 746.72

VCL = 400'
K = 164

EXISTING PROFILE ELEVATIONS

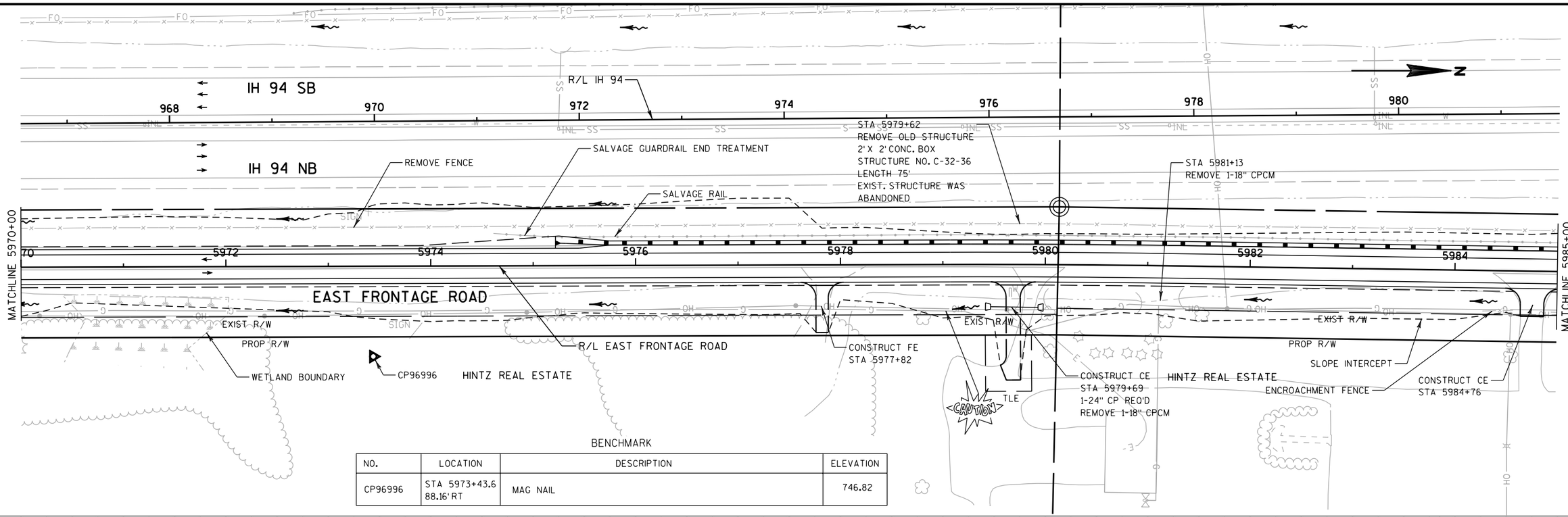
FINISHED PROFILE ELEVATIONS

5956	5958	5960	5962	5964	5966	5968	5970
735.92	736.93	736.93	736.94	736.96	736.99	737.03	737.08
735.84	735.80	735.77	735.73	735.66	735.55	735.51	735.43
737.14	737.21	737.29	737.38	737.49	737.60	737.72	737.86
735.33	735.34	735.36	735.38	735.38	735.38	735.42	738.01
735.35	738.16	738.33	738.51	738.69	738.89	739.10	739.30
735.36	735.58	735.71	735.74	735.89	739.50	739.71	739.91
736.16	736.30	736.40	740.12	740.32	736.75	740.52	736.93
740.73	737.14	740.93	737.37	741.14	737.64	741.34	737.94
741.54	738.21	741.75	738.47	741.95	738.74	742.16	739.09
742.36	739.40	742.56	739.65	742.77	739.92	742.97	740.25
743.18	740.58	743.38	740.92	743.58	741.24	743.79	741.58
743.99	741.89	744.19	742.27	744.40	742.63	744.60	742.96
744.81	743.28	745.01	743.62	745.21	743.98	745.42	744.31
745.62	744.60	745.83	744.90	746.03	745.19	746.23	745.47
746.44	745.74	746.64	746.04	746.85	746.41	747.10	

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	PLAN & PROFILE: EAST FRONTAGE ROAD	SHEET 243	E

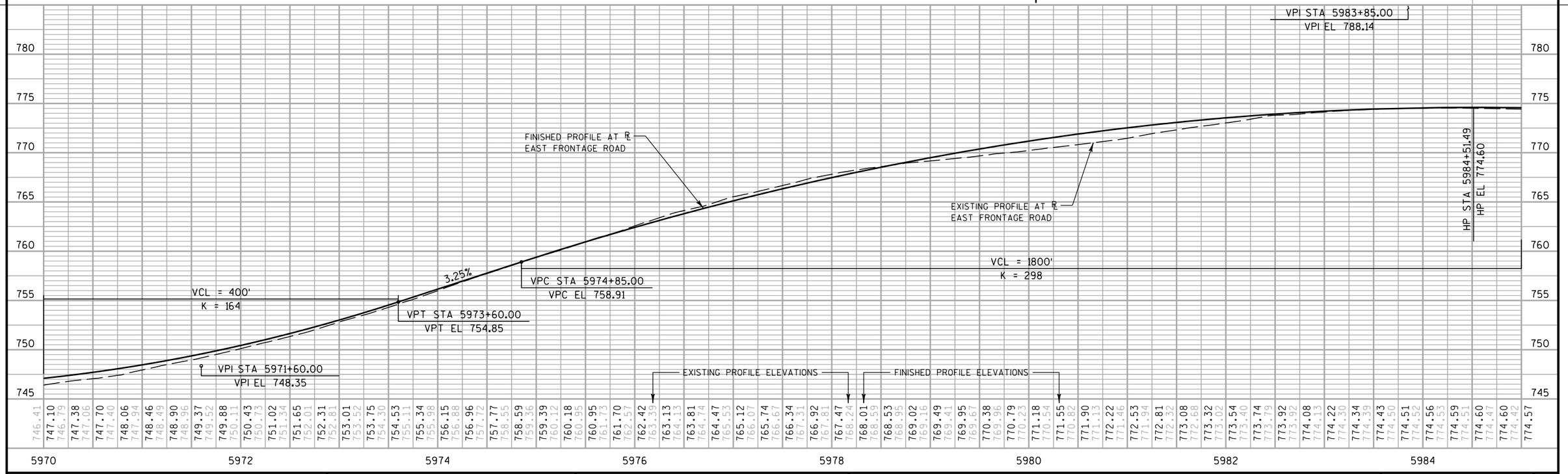
FILE NAME : Z:\Racine\CADDS\16\16E\CDS\050105_pp.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:100

10301177-00008RDAPERM



BENCHMARK

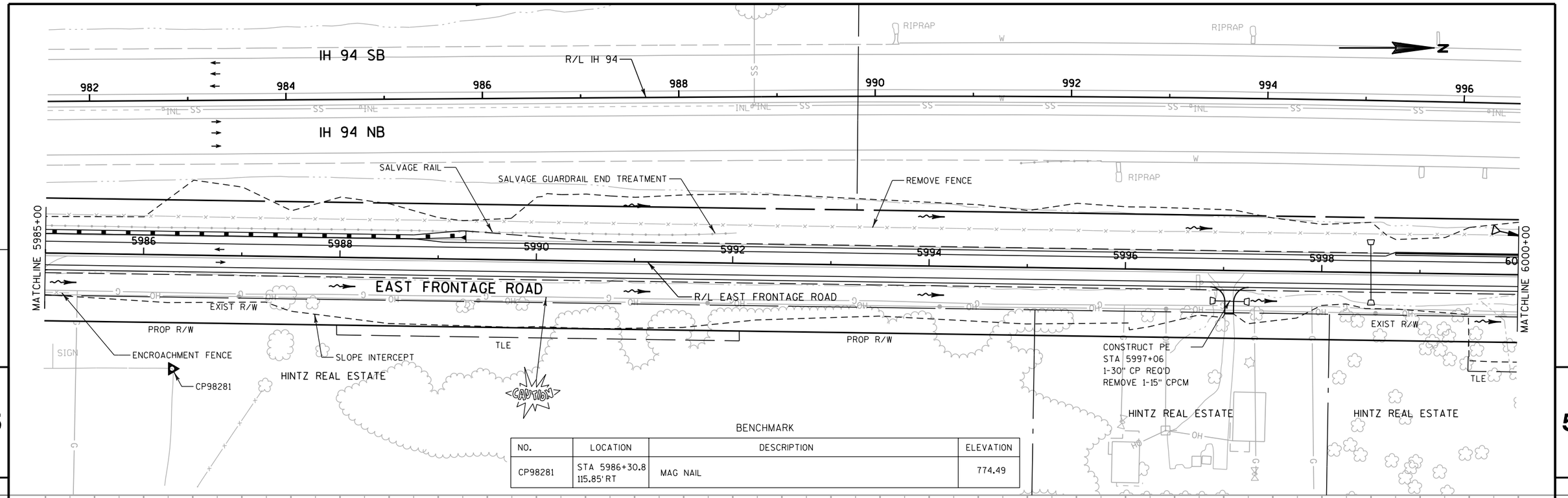
NO.	LOCATION	DESCRIPTION	ELEVATION
CP96996	STA 5973+43.6 88.16' RT	MAG NAIL	746.82



PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	PLAN & PROFILE: EAST FRONTAGE ROAD	SHEET 244	E

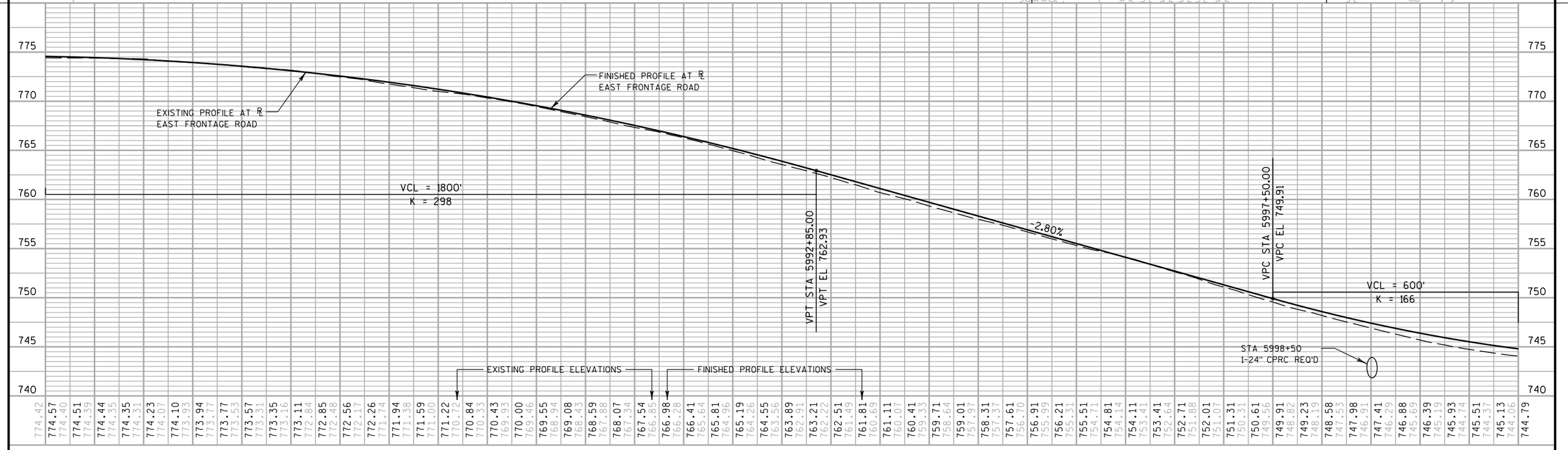
FILE NAME : Z:\Racine\CADDS\16\16E\CDS\050106_pp.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : $FILE$ | PLOT SCALE : 1:100

WISDOT/CADDS SHEET 40



BENCHMARK

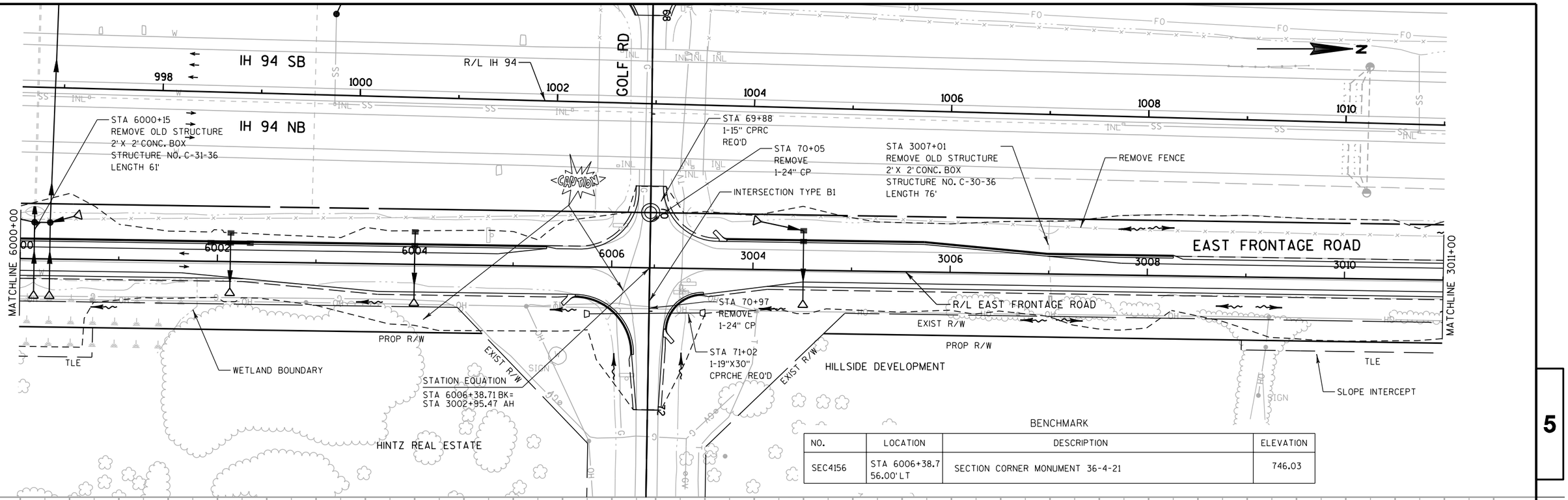
NO.	LOCATION	DESCRIPTION	ELEVATION
CP98281	STA 5986+30.8 115.85' RT	MAG NAIL	774.49



PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	PLAN & PROFILE: EAST FRONTAGE ROAD	SHEET 245	E

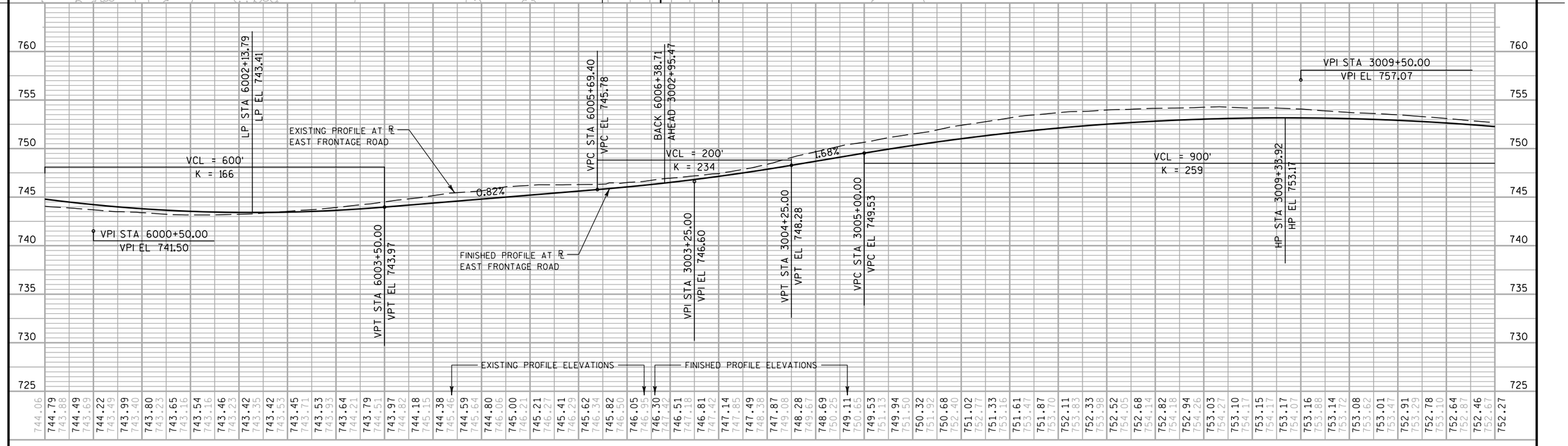
FILE NAME : Z:\Racine\CADDS\16\16E\CDS\050107_pp.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:100

10301177-00008RDAPERM



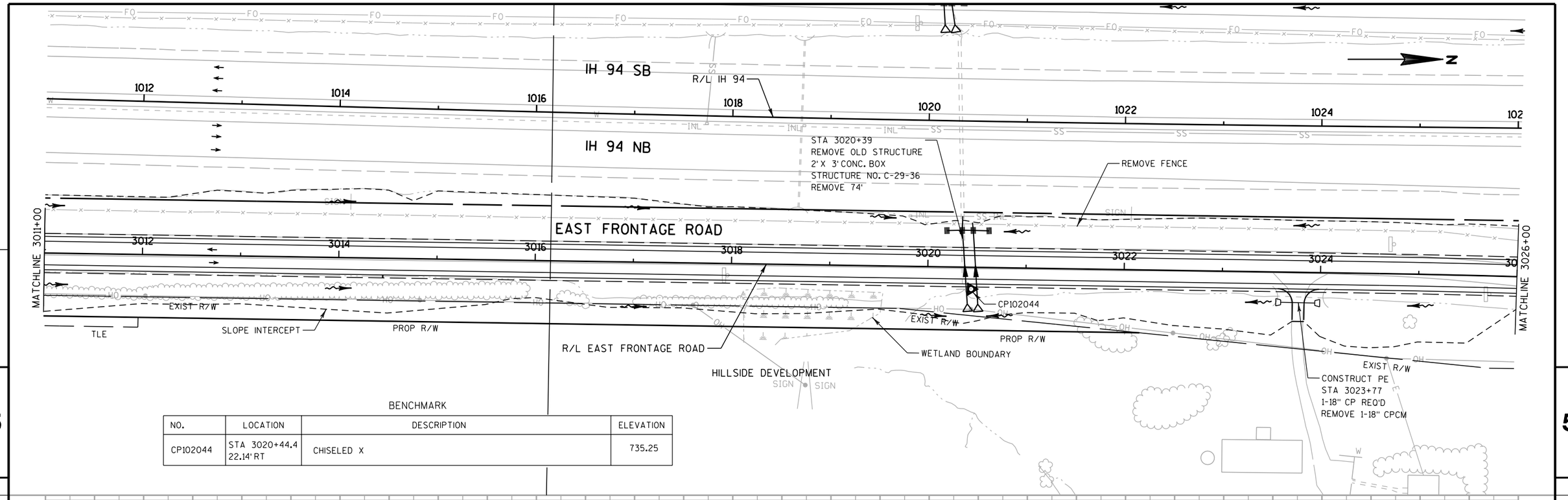
BENCHMARK

NO.	LOCATION	DESCRIPTION	ELEVATION
SEC4156	STA 6006+38.7 56.00'LT	SECTION CORNER MONUMENT 36-4-21	746.03



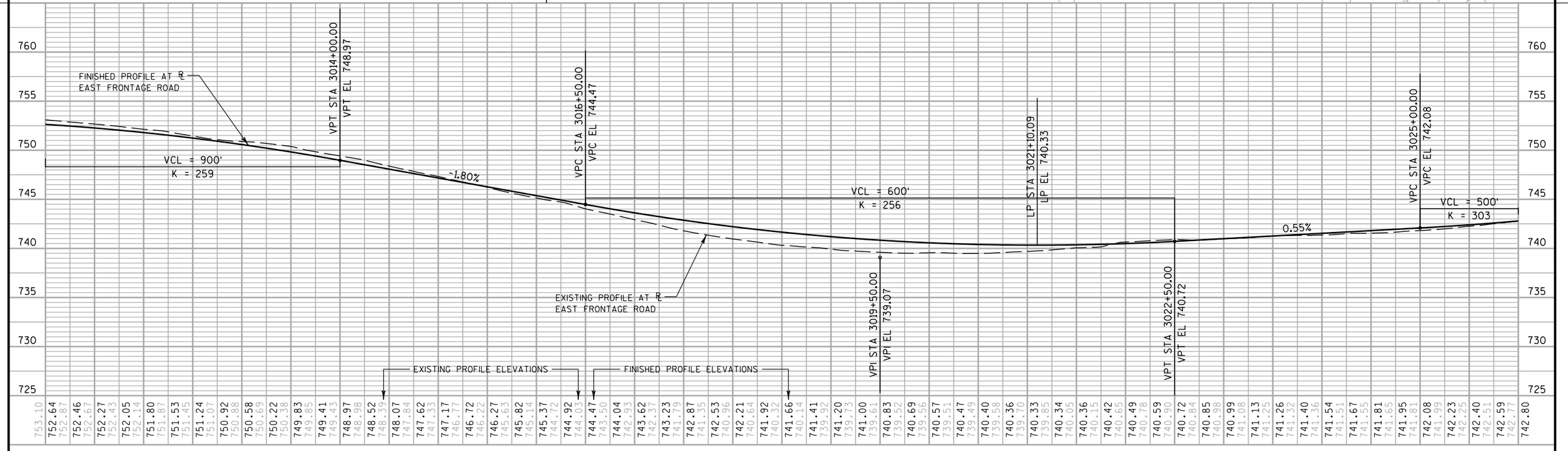
PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	PLAN & PROFILE: EAST FRONTAGE ROAD	SHEET 246	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\050108_pp.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:100



BENCHMARK

NO.	LOCATION	DESCRIPTION	ELEVATION
CP102044	STA 3020+44.4 22.14' RT	CHISELED X	735.25

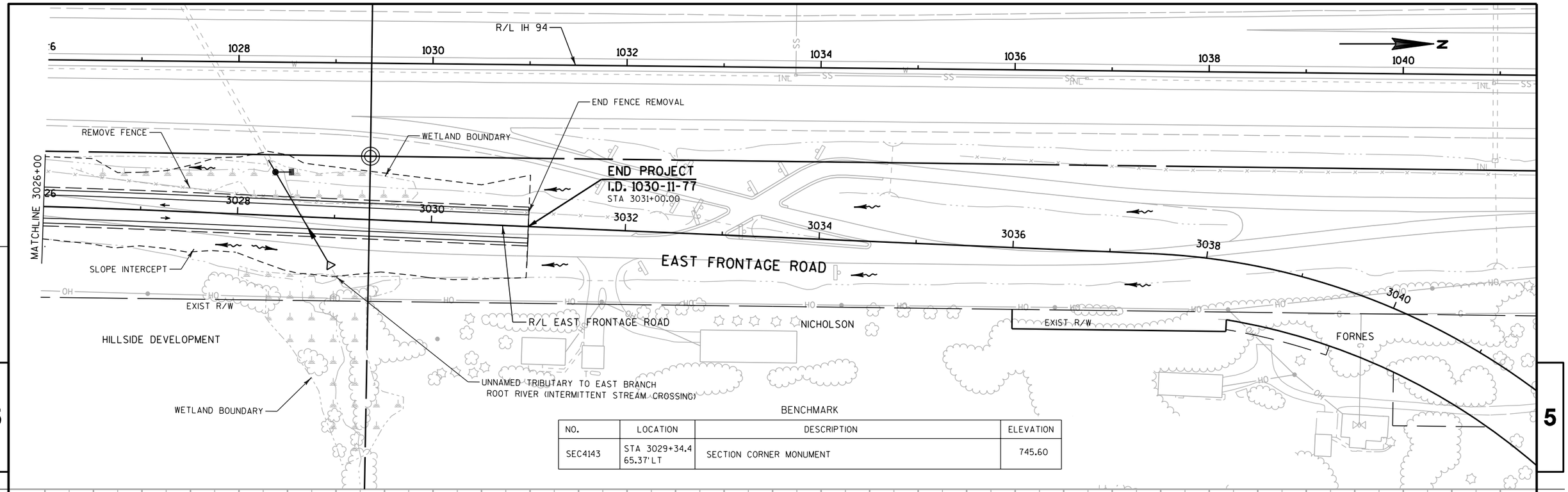


PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	PLAN & PROFILE: EAST FRONTAGE ROAD	SHEET 247	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\050109_pp.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : $FILE$ | PLOT SCALE : 1:100

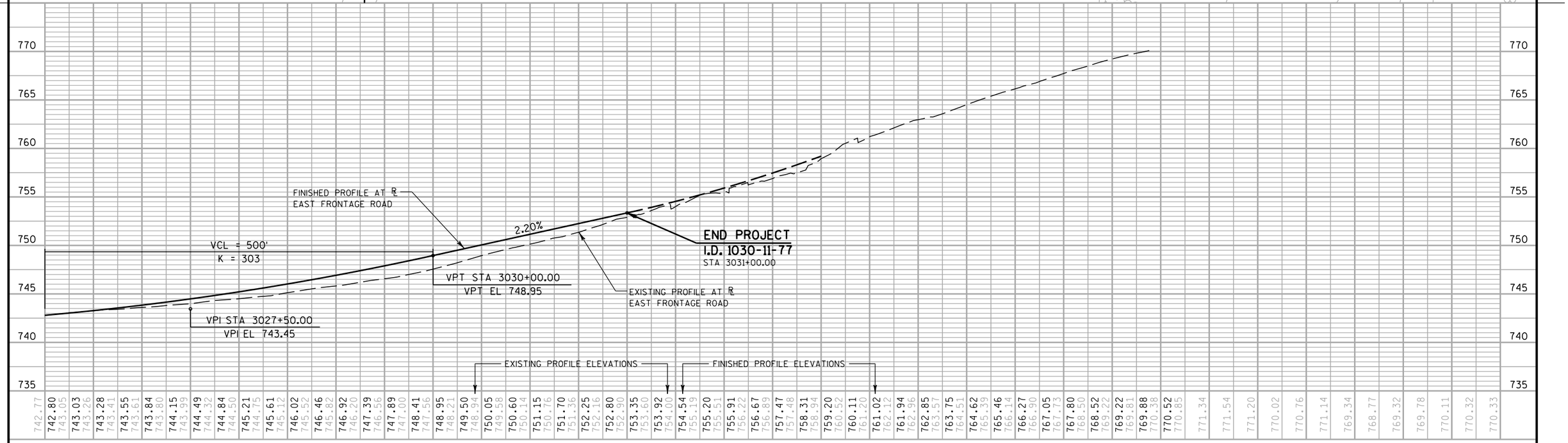
WISDOT/CADDS SHEET 40

10301177-00008RDAPERM



BENCHMARK

NO.	LOCATION	DESCRIPTION	ELEVATION
SEC4143	STA 3029+34.4 65.37' LT	SECTION CORNER MONUMENT	745.60



PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	PLAN & PROFILE: EAST FRONTAGE ROAD	SHEET 248	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\050110_pp.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:100

FSL

WISDOT/CADDS SHEET 40

TUBMAN
GUTMAN
DEBRABANDER
POKRANT
MICHEL
MEYERS
GLODOWSKI
LOVREK
SEATER
BURDETTE
EVANS LANE
R/L EVANS LANE
WEST FRONTAGE ROAD
R/L WEST FRONTAGE ROAD
R/L IH 94
IH 94 SB
IH 94 NB
MATCHLINE 4904+00

EXIST. STEEL THRIE BEAM STRUCTURE APPROACH AND EAT TO REMAIN
BEGIN PROJECT
I.D. 1030-11-78
STA 4891+90
EXIST R/W
TLE
EXISTING BEAM GUARD TO REMAIN
CONNECT TO EXISTING BEAMGUARD
REMOVE ASPHALTIC SURFACE
BEGIN FENCE REMOVAL
CONSTRUCT PE STA 4893+20
CONSTRUCT PE STA 4893+60
CONSTRUCT PE STA 4893+90
CONSTRUCT PE STA 81+12 RT
REMOVE 1-12" CPCM
1-18" CP REQ'D
CONSTRUCT PE STA 81+94 RT
REMOVE 1-15" CPCM
RECONSTRUCT MH SPECIAL
SEE CONST. DETAIL
PROP R/W
CONSTRUCT PE STA 80+91 LT
REMOVE 1-12" CPCM
1-18" CP REQ'D
CONSTRUCT PE STA 81+90 LT
REMOVE 1-12" CPCM
CAUTION
CONSTRUCT PE STA 4900+31
REMOVE 1-18" CPCM
SLOPE INTERCEPT
ENCROACHMENT FENCE
STA 4897+10
REMOVE 1-30" CPCM
REMOVE FENCE
CONSTRUCT PE STA 4900+75
REMOVE 1-18" CPCM
RECONSTRUCT MH SPECIAL
SEE CONST. DETAIL
ENCROACHMENT LANDSCAPE PAVERS
POSSIBLE DRAINTILE;
DRAINTILE EXPLORATION REQ'D
REMOVE EX. MH
STA 4902+85
REMOVE 48" CPCM
ENCROACHMENT
MARKER POSTS, CHAIN
SALVAGING EXISTING
ACCESS GATE
REMOVE ASPHALTIC SURFACE
WETLAND
BOUNDARY

890 892 894 896 898 900 902 904

5 5

VPI STA 4891+10.00
VPI EL 768.81
-2.00%
VPI STA 4889+79.42
VPI EL 771.42
VPC STA 4890+05.00
VPC EL 770.91
VCL = 210'
K = 74
BEGIN CONSTRUCTION
I.D. 1030-11-78
STA 4891+90
MATCH EXISTING
-4.85%
VPT STA 4892+15.00
VPT EL 763.72
VPC STA 4892+50.00
VPC EL 762.02
VCL = 400'
K = 99
VPI STA 4894+50.00
VPI EL 752.32
FINISHED PROFILE AT ℄ WEST FRONTAGE ROAD
VPT STA 4896+50.00
VPT EL 750.66
-0.83%
EXISTING PROFILE AT ℄ WEST FRONTAGE ROAD

770 765 760 755 750 745 740 735

EXISTING PROFILE ELEVATIONS
FINISHED PROFILE ELEVATIONS

	4889	4890	4892	4894	4896	4898	4900	4902	4904
EXISTING		764.42	764.43 / 763.19	763.23 / 761.92	762.02 / 760.65	760.84 / 759.48	759.72 / 758.32	758.66 / 757.33	757.67 / 756.36
	756.74 / 755.45	755.88 / 754.61	755.07 / 753.84	754.33 / 753.13	753.65 / 752.37	753.04 / 751.00	752.48 / 750.25	751.99 / 749.56	751.57 / 748.94
	751.20 / 748.37	750.90 / 747.75	750.66 / 747.24	750.46 / 749.65	750.25 / 750.09	750.04 / 746.27	749.84 / 745.22	749.63 / 745.08	749.42 / 744.93
	749.22 / 744.70	749.01 / 744.56	748.80 / 744.35	748.59 / 744.08	748.39 / 744.17	748.18 / 743.78	747.97 / 743.48	747.77 / 746.75	747.56 / 742.91
	747.35 / 744.79	747.15 / 740.56	746.94 / 739.85	746.73 / 739.32	746.53 / 739.00	746.32 / 739.09	746.11 / 738.98	745.90 / 738.54	745.70 / 737.88
	745.49 / 738.73	745.28 / 738.64	745.08 / 738.67	744.87 / 738.76	744.66 / 738.89	744.46			

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	PLAN & PROFILE: WEST FRONTAGE ROAD	SHEET 249	E

10301177-00008RDAPERM

MARSH

POSSIBLE DRAINTILE;
DRAINTILE EXPLORATION REQ'D

WETLAND BOUNDARY

CONSTRUCT FE
STA 4907+20

TLE

PROP R/W

EXIST R/W

SLOPE INTERCEPT

WETLAND BOUNDARY

RACINE INSTINCTIVE

WEST FRONTAGE ROAD

WETLAND BOUNDARY

TLE

CONSTRUCT FE
STA 4916+44

PROP R/W

EXIST R/W

MATCHLINE 4904+00

MATCHLINE 4919+00

R/L WEST FRONTAGE ROAD

END FENCE REMOVAL

REMOVE FENCE

REMOVE INLET

IH 94 SB

IH 94 NB

R/L IH 94

SIGN

RIPRAP

5

5

VPC STA 4904+50.00
VPC EL 744.04

LP STA 4906+33.11
LP EL 743.28

-0.83%

VCL = 300
K = 221

VPI STA 4906+00.00
VPI EL 742.80

VPT STA 4907+50.00
VPT EL 743.59

0.53%

FINISHED PROFILE AT ℄
WEST FRONTAGE ROAD

EXISTING PROFILE AT ℄
WEST FRONTAGE ROAD

EXISTING PROFILE ELEVATIONS

FINISHED PROFILE ELEVATIONS

4904	4906	4908	4910	4912	4914	4916	4918
738.89	744.46	744.25	744.04	743.85	743.68	743.55	743.44
739.21	739.38	739.49	739.75	740.04	740.16	740.62	740.93
743.36	743.31	743.29	743.29	743.32	743.38	743.47	743.59
741.32	741.46	741.59	741.83	743.49	743.30	741.83	742.08
743.72	743.86	743.99	744.12	744.25	744.39	744.52	744.65
742.18	742.58	742.52	742.83	742.85	743.06	743.15	743.11
744.78	745.18	745.31	745.44	745.57	745.71	745.84	745.97
743.23	743.74	743.58	743.81	743.98	744.07	744.22	744.45
746.10	746.24	746.37	746.50	746.63	746.76	746.90	747.03
744.75	744.91	745.45	746.06	746.32	746.50	746.71	746.97
747.16	747.29	747.42	747.56	747.69	747.82	747.95	748.08
747.07	747.15	747.29	747.44	747.64	747.88	748.13	748.36
748.22	748.35	748.48	748.72	748.75	748.88	749.01	749.14
748.50	748.52	748.61	748.72	748.89	748.94	749.02	749.17
749.27	749.41	749.54	749.67				
749.28	749.33	749.41					

765 760 755 750 745 740 735 730

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	PLAN & PROFILE: WEST FRONTAGE ROAD	SHEET 250	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\050112_pp.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:100

WISDOT/CADDS SHEET 40

10301177-00008RDAPERM

BENCHMARK

NO.	LOCATION	DESCRIPTION	ELEVATION
CP92281	STA 4922+86.9 146.89'LT	BERNSTEN MONUMENT W/S	751.75

MATCHLINE 4919+00

MATCHLINE 4934+00

STA 47+24
REMOVE 1-30" CPCM

CP92281

STA 47+12
1-15" CPRC REQ'D

I-94 PROPERTIES

BROWN

EXIST R/W

PROP R/W

SLOPE INTERCEPT

CONSTRUCT CE
STA 4928+27
REMOVE 1-18" CPCM

TLE

TOP FLIGHT

R/L WEST FRONTAGE ROAD

ENCROACHMENT
BOULDERS, CAR PARTS

WETLAND BOUNDARY

WEST FRONTAGE ROAD

ENCROACHMENT
FENCE

BEGIN FENCE REMOVAL
STA. 4925+00

R/L KRAUT ROAD

KRAUT RD

R/L IH 94

IH 94 SB

IH 94 NB

CONSTRUCT CE
STA 4929+58
REMOVE 1-18" CPCM

REMOVE
FENCE

CONSTRUCT CE
STA 4931+47
1-18" CP REQ'D
REMOVE 1-18" CPCM

STA. 4933+30
REMOVE 1-18" CPCM

RIPRAP

SIGN

FO

OH

G

W

SS

INL

5

FINISHED PROFILE AT R
WEST FRONTAGE ROAD

EXISTING PROFILE AT R
WEST FRONTAGE ROAD

0.53%

-1.38%

VPI STA 4927+25.00
VPI EL 754.03

VPT STA 4929+75.00
VPT EL 750.59

VPC STA 4933+75.00
VPC EL 745.08

VPC STA 4924+75.00
VPC EL 752.71

HP STA 4926+13.65
HP EL 753.08

VCL = 500'
K = 262

VCL = 200'
K = 228

EXISTING PROFILE ELEVATIONS

FINISHED PROFILE ELEVATIONS

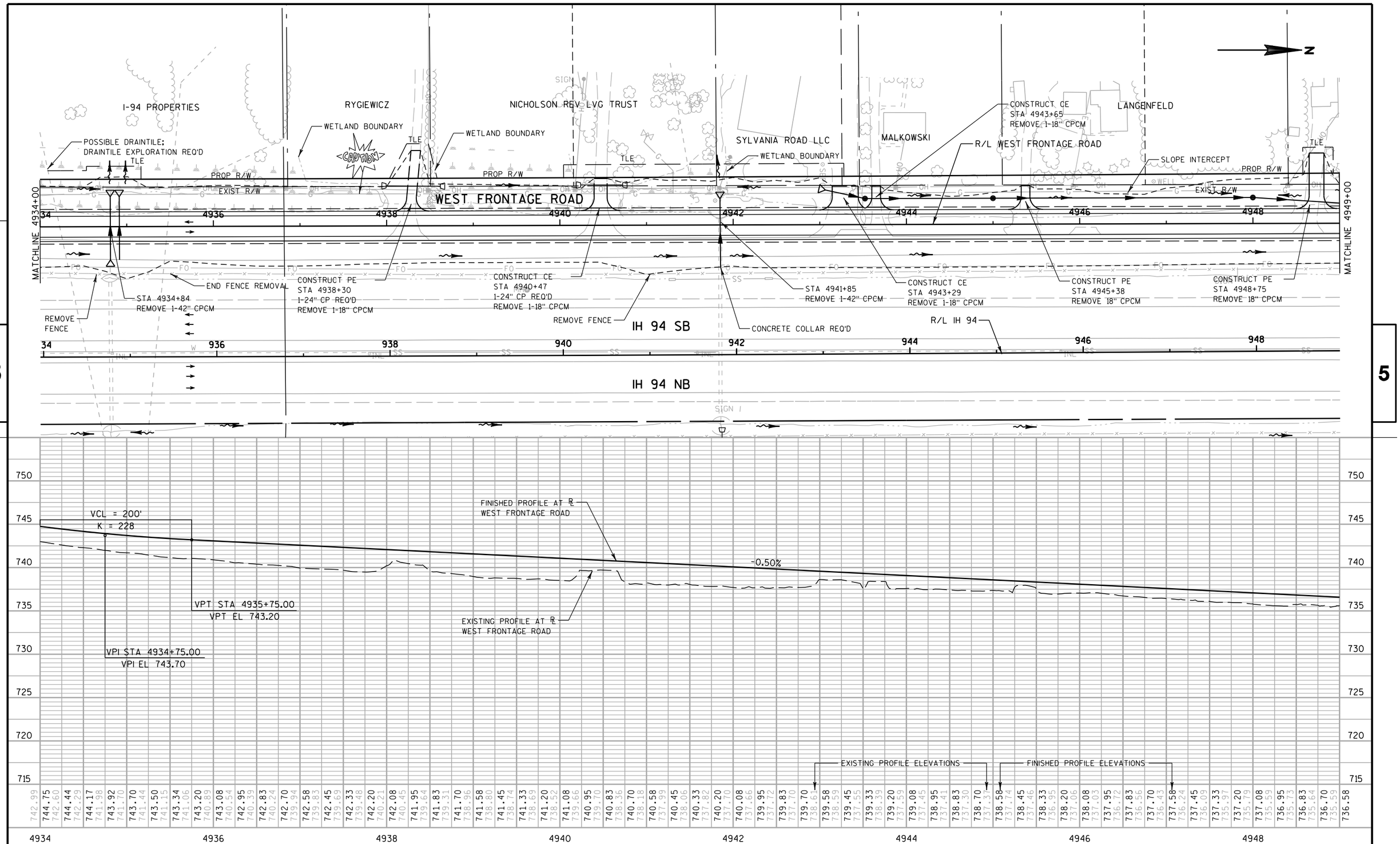
4920	4922	4924	4926	4928	4930	4932	4934
749.41	749.67	749.80	749.93	750.07	750.20	750.33	750.46
749.59	749.50	749.59	749.70	749.77	749.81	749.97	750.19
750.59	750.73	750.86	750.99	751.12	751.26	751.39	751.52
750.36	750.48	750.56	750.60	750.74	750.90	751.03	751.20
751.65	751.78	751.92	752.05	752.18	752.31	752.44	752.58
751.39	751.71	751.92	752.09	752.23	752.45	752.67	752.89
752.71	752.83	752.93	753.00	753.05	753.07	753.07	753.05
753.09	753.29	753.52	753.72	754.02	754.23	754.29	754.34
753.00	752.93	752.84	752.72	752.58	752.41	752.22	752.01
754.33	754.24	753.94	753.69	753.46	753.16	752.82	752.46
751.77	751.51	751.23	750.92	750.59	750.24	749.90	749.55
752.00	751.64	751.26	750.96	750.54	750.04	749.54	749.00
749.21	748.86	748.52	748.18	747.83	747.49	747.14	746.80
748.70	748.28	747.93	747.44	746.97	746.43	745.96	745.45
746.45	746.11	745.77	745.42	745.08			
745.34	745.24	744.19	743.52	742.99			

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	PLAN & PROFILE: WEST FRONTAGE ROAD	SHEET 251	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\050113_pp.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : $FILE$ | PLOT SCALE : 1:100

PSL

WISDOT/CADDS SHEET 40



PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	PLAN & PROFILE: WEST FRONTAGE ROAD	SHEET 252	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\050114_pp.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:100

10301177-00008RDAPERM

MARTIN

D'ACQUISTO

TCTS LLC

SHERRY

AVOID IMPACTS TO ALL TREES IN THIS AREA

CONSTRUCT PE STA 4950+84 REMOVE 18" CPCM

AVOID IMPACT TO TREE

CONC. SLAB TO REMAIN

AVOID IMPACT TO TREE

POSSIBLE 10" DRAINTILE; DRAINTILE EXPLORATION REQUIRED.

WETLAND BOUNDARY

SLOPE INTERCEPT

CONSTRUCT FE STA 4959+60 1-18" CP REQ'D

CONSTRUCT PE STA 4963+05 1-24" CP REQ'D REMOVE 1-24" CPCM

CONSTRUCT PE STA 4960+96 1-24" CP REQ'D REMOVE 1-18" CPCM

TLE

PROP R/W

EXIST R/W

WEST FRONTAGE ROAD

R/L WEST FRONTAGE ROAD

MATCHLINE 4949+00

MATCHLINE 4964+00

4950 4952 4954 4956 4958 4960 4962

ENCROACHMENT BOUNDER

REMOVE FENCE

BEGIN FENCE REMOVAL

STA 4951+20 REMOVE 2-48" CPCM

STA 4955+50 REMOVE 2-48" CPCM

STA 4956+34 REMOVE 1-18" CPCM

STA 4959+60 REMOVE 1-18" CPCM

WETLAND BOUNDARY

R/L IH 94

IH 94 SB

IH 94 NB

950 952 954 956 958 960 962

5

5

VPC STA 4953+50.00
VPC EL 734.33

LP STA 4955+03.69
LP EL 733.95

VPI STA 4956+00.00
VPI EL 733.08

VPT STA 4958+50.00
VPT EL 735.90

VPC STA 4963+75.00
VPC EL 741.81

VCL = 500'
K = 308

VCL = 400'
K = 164

-0.50%

1.13%

FINISHED PROFILE AT ℄ WEST FRONTAGE ROAD

EXISTING PROFILE AT ℄ WEST FRONTAGE ROAD

EXISTING PROFILE ELEVATIONS

FINISHED PROFILE ELEVATIONS

4950	4952	4954	4956	4958	4960	4962	4964
735.59	736.58	736.45	736.33	736.20	736.08	735.95	735.83
735.27	735.37	735.27	735.16	734.89	734.62	734.63	734.62
735.45	735.83	735.70	735.58	735.45	735.33	735.20	735.08
734.41	734.35	734.29	734.14	733.93	733.74	733.59	733.56
734.45	734.33	734.21	734.12	734.05	733.96	733.95	733.98
733.42	733.28	733.15	733.08	733.00	732.97	732.89	733.18
734.03	734.10	734.18	734.29	734.42	734.57	734.74	734.93
733.15	733.04	733.05	733.20	733.17	733.17	733.19	733.26
735.14	735.37	735.62	735.90	736.18	736.46	736.74	737.02
733.36	733.58	733.87	734.13	734.46	734.72	735.01	735.29
737.30	737.58	737.87	738.15	738.43	738.71	738.99	739.27
735.56	735.86	736.22	736.88	737.29	737.60	737.93	738.34
739.56	739.84	740.12	740.40	740.68	740.96	741.24	741.53
738.86	739.25	739.67	740.15	740.72	741.16	741.57	742.04
							741.81
							742.11

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	PLAN & PROFILE: WEST FRONTAGE ROAD	SHEET 253	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\050115_pp.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:100

PSL

WISDOT/CADDS SHEET 40

10301177-00008RDAPERM

LEE FOURNIER REAL ESTATE

CONSTRUCT CE
STA 4966+55
1-18" CP REQ'D
REMOVE 1-18" CPCM

SLOPE INTERCEPT

TLE

PROP R/W

EXIST R/W

ENCROACHMENT BOUNDARY

RK RACINE

WELL

INL

WEST FRONTAGE ROAD

MATCHLINE 4964+00

ENCROACHMENT BOUNDARY

SALVAGED GUARDRAIL END TREATMENTS

REMOVE FENCE

SALVAGED GUARDRAIL

R/L WEST FRONTAGE ROAD

CONSTRUCT CE
STA 4973+89
1-18" CP REQ'D
REMOVE 1-18" CPCM

GRADE AROUND LIGHT BASE

NOTE: LOCATION OF PRIVATE ELECTRICAL FACILITIES ARE NOT KNOWN CONTACT PROPERTY OWNER TO LOCATE

ROLAND PROPERTIES

ENCROACHMENT FLAG POLE

R/L 2 MILE ROAD

2 MILE RD

KNEPPER

MATCHLINE 4979+00

CAUTION

IH 94 SB

IH 94 NB

R/L IH 94

64 966 968 970 972 974 976 978

4964 4966 4968 4970 4972 4974 4976 4978

FINISHED PROFILE AT ℄ WEST FRONTAGE ROAD

EXISTING PROFILE AT ℄ WEST FRONTAGE ROAD

VPI STA 4972+75.00
VPI EL 769.00

VPT STA 4976+50.00
VPT EL 770.92

0.51%

VCL = 1050'
K = 241

VPC STA 4978+25.00
VPC EL 771.81

VCL = 750'
K = 246

3.56%

VCL = 400'
K = 164

VPT STA 4967+75.00
VPT EL 751.19

VPI EL 744.06
VPI STA 4965+75.00

VPC STA 4969+00.00
VPC EL 755.64

STA 4977+50
1-24" CPRC REQ'D

EXISTING PROFILE ELEVATIONS

FINISHED PROFILE ELEVATIONS

| | | |

ROCK GARDEN TO REMAIN
PROTECT TREES; GRADING REQ'D AROUND TREES
TLE
CONSTRUCT PE STA 4980+90 1-18" CP REQ'D
LANGE FAMILY TRUST
CONSTRUCT PE STA 4983+92 1-18" CP REQ'D REMOVE 1-18" CPCM
CAUTION
WETLAND BOUNDARY
SLOPE INTERCEPT
BUCKAU
EXIST R/W
MATCHLINE 4979+00
MATCHLINE 4994+00
WEST FRONTAGE ROAD
ENCROACHMENT SIGN
R/L WEST FRONTAGE ROAD
SALVAGED RAIL
SALVAGED GUARDRAIL END TREATMENTS
REMOVE FENCE
RIPRAP
IH 94 SB
R/L IH 94
IH 94 NB

EXISTING PROFILE AT ℄ WEST FRONTAGE ROAD
VPI STA 4983+50.00
VPI EL 774.50
HP STA 4979+48.52
HP EL 772.13
FINISHED PROFILE AT ℄ WEST FRONTAGE ROAD
VPRC STA 4988+75.00
VPRC EL 754.35
VCL = 1050'
K = 241
VCL = 700'
K = 161
VPI STA 4992+25.00
VPI EL 740.92

EXISTING PROFILE ELEVATIONS
FINISHED PROFILE ELEVATIONS

4980	4982	4984	4986	4988	4990	4992	4994
772.08 / 771.30	772.12 / 771.47	772.13 / 771.69	772.12 / 772.07	772.08 / 772.32	772.01 / 772.47	771.92 / 772.61	771.80 / 772.74
771.65 / 772.59	771.48 / 772.66	771.29 / 772.47	771.07 / 772.34	770.82 / 772.19	770.55 / 772.01	770.25 / 771.79	769.92 / 771.40
769.57 / 771.01	769.19 / 770.58	768.79 / 770.17	768.36 / 769.69	767.91 / 769.19	767.43 / 768.56	766.92 / 767.80	766.39 / 767.10
765.83 / 766.27	765.25 / 765.60	764.64 / 764.83	764.00 / 764.01	763.34 / 763.10	762.65 / 762.17	761.94 / 761.21	761.20 / 760.13
760.43 / 758.99	759.64 / 757.90	758.83 / 756.71	757.98 / 755.50	757.11 / 754.43	756.22 / 753.42	755.30 / 752.27	754.35 / 751.25
753.41 / 750.07	752.51 / 749.07	751.65 / 748.09	750.82 / 747.26	750.04 / 746.41	749.29 / 745.51	748.58 / 744.72	747.92 / 744.14
747.29 / 743.85	746.69 / 743.33	746.14 / 742.85	745.63 / 742.62	745.15 / 742.38	744.72 / 742.10	744.32 / 741.92	743.96 / 741.66
743.64 / 741.40	743.36 / 741.26	743.11 / 741.13	742.91 / 740.91	742.74			

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	PLAN & PROFILE: WEST FRONTAGE ROAD	SHEET 255	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\050117_pp.dgn
PLOT DATE : 8/29/2012
PLOT BY : kld
PLOT NAME : $FILE$
PLOT SCALE : 1:100

10301177-00008RDAPERM

BUCKAU

GEORGE

GEORGE

ANDERSEN

N

POSSIBLE DRAINTILE;
DRAINTILE EXPLORATION REQ'D

TLE

CAUTION

EXIST R/W

R/L WEST FRONTAGE ROAD

WETLAND BOUNDARY

CONSTRUCT PE
STA 5001+98
1-24" CP REQ'D
REMOVE 1-18" CPCM

CONSTRUCT PE
STA 5003+45
1-24" CP REQ'D
REMOVE 1-18" CPCM

SLOPE INTERCEPT

CONSTRUCT PE
STA 5006+75
1-18" CP REQ'D
REMOVE 1-18" CPCM

PROP R/W

EXIST R/W

MATCHLINE 4994+00

MATCHLINE 5009+00

WEST FRONTAGE ROAD

REMOVE FENCE

END FENCE REMOVAL

STA 67+84
REMOVE 1-24" CP

R/L GOLF ROAD

IH 94 SB

IH 94 NB

R/L IH 94

GOLF RD

4994 4996 4998 5000 5002 5004 5006 5008

994 996 998 1000 1002 1004 1006 1008

760 755 750 745 740 735 730 725

VPT STA 4995+75.00
VPT EL 742.67

LP STA 4994+94.26
LP EL 742.47

VCL = 700'
K = 161

0.50%

FINISHED PROFILE AT ℄
WEST FRONTAGE ROAD

VPC STA 5004+00.00
VPC EL 746.80

VCL = 400'
K = 751

EXISTING PROFILE AT ℄
WEST FRONTAGE ROAD

VPI STA 5006+00.00
VPI EL 747.80

VPRC STA 5008+00.00
VPRC EL 749.87

VCL = 800'
K = 263

EXISTING PROFILE ELEVATIONS

FINISHED PROFILE ELEVATIONS

740.91 742.74 740.99 742.62 741.07 742.53 741.07 742.48 740.96 742.47 740.91 742.50 740.86 742.57 740.89 742.67 740.97 742.80 741.12 742.92 741.33 743.05 741.54 743.17 741.76 743.30 741.98 743.42 742.17 743.55 742.31 743.67 742.41 743.80 742.54 743.92 742.65 744.05 742.80 744.17 743.02 744.30 743.13 744.42 743.25 744.55 743.36 744.67 743.52 744.80 743.65 744.92 743.67 745.05 743.78 745.17 743.77 745.30 743.83 745.42 743.91 745.55 744.32 745.67 744.73 746.17 744.12 746.30 744.67 746.42 745.56 746.55 744.12 746.67 744.23 746.80 744.58 746.93 744.71 747.07 744.80 747.21 745.28 747.37 745.50 747.53 745.93 747.70 746.20 747.88 746.62 748.07 746.92 748.26 747.33 748.47 750.35 748.68 747.80 748.90 747.96 749.13 748.10 749.37 748.39 749.61 748.62 749.87 748.69 750.11 748.84 750.34 749.10 750.53 749.24 750.71

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	PLAN & PROFILE: WEST FRONTAGE ROAD	SHEET 256	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\050118_pp.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:100

WISDOT/CADDS SHEET 40

10301177-00008RDAPERM

ANDERSEN
MC COLLUM
DUENSING
WRIGHT
KOSTROSKI
MVLG VENTURES

AVOID IMPACTS TO TREE
CONSTRUCT PE STA 5009+74 1-18" CP REQ'D REMOVE 1-18" CPCM
CONSTRUCT PE STA 5010+36 1-18" CP REQ'D
CONSTRUCT PE STA 5012+07 1-18" CP REQ'D REMOVE 1-18" CPCM
AVOID IMPACTS TO TREES
ENCROACHMENT ORNAMENTAL WAGONS
SLOPE INTERCEPT
CONSTRUCT PE STA 5016+24 1-24" CP REQ'D REMOVE 2-18" CPCM
R/L NICHOLAS ROAD
STATION EQUATION STA 5020+49.47 BK= STA 2020+42.87 AH
CAUTION

PROP R/W
EXIST R/W
TLE
SIGN

MATCHLINE 5009+00
MATCHLINE 2024+00

WEST FRONTAGE ROAD
NICHOLAS RD
R/L WEST FRONTAGE ROAD
ENCROACHMENT WOOD BRIDGE
STA 5020+24 REMOVE 42" CPCM
BEGIN FENCE REMOVAL
END FENCE REMOVAL

IH 94 SB
IH 94 NB
R/L IH 94

5010 5012 5014 5016 5018 5020 2022 2024

765 760 755 750 745 740 735 730 725

VPI STA 5012+00.00
VPI EL 754.00
FINISHED PROFILE AT ℄ WEST FRONTAGE ROAD
HP STA 5010+71.30
HP EL 751.27
VCL = 800'
K = 263
-2.01%
VPT STA 5016+00.00
VPT EL 745.94
VPC STA 5017+56.60
VPC EL 742.79
VCL = 600'
K = 196
BACK 5020+49.47
AHEAD 2020+42.87
LP STA 2021+44.57
LP EL 738.82
1.05%
VPT STA 2023+50.00
VPT EL 739.90
EXISTING PROFILE AT ℄ WEST FRONTAGE ROAD
VPI STA 2020+50.00
VPI EL 736.75

EXISTING PROFILE ELEVATIONS
FINISHED PROFILE ELEVATIONS

5010	5012	5014	5016	5018	5020	2020	2022	2024
749.24	750.71 749.39	750.86 749.64	750.99 751.69	751.09 750.21	751.17 751.72	751.23 751.58	751.26 751.44	751.27 751.63
751.25 751.75	751.21 751.78	751.15 751.59	751.06 751.82	750.95 751.17	750.82 750.70	750.66 750.26	750.48 750.04	750.27 749.65
750.04 749.55	749.79 748.99	749.51 748.83	749.21 747.86	748.89 747.57	748.54 746.83	748.16 746.33	747.77 745.89	747.35 745.29
746.90 744.58	746.44 743.90	745.94 744.49	745.44 742.61	744.94 741.90	744.43 741.18	743.93 740.45	743.43 739.77	742.92 738.73
742.43 737.90	741.97 737.44	741.53 736.74	741.13 735.99	740.76 735.33	740.43 734.95	740.12 734.35	739.85 733.73	739.61 733.01
739.40 735.11	739.22 736.90	739.05 735.79	738.94 734.29	738.87 734.70	738.83 735.13	738.82 735.39	738.84 735.81	738.90 736.12
738.98 736.35	739.10 736.50	739.25 736.99	739.43 737.39	739.65 737.73	739.90 737.88	740.16 738.12	740.42	

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	PLAN & PROFILE: WEST FRONTAGE ROAD	SHEET 257	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\050119_pp.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:100

PSL

WISDOT/CADDS SHEET 40

10301177-00008RDAPERM

INDVEST LLC

CAUTION

UNNAMED TRIBUTARY TO
EAST BRANCH ROOT RIVER
(INTERMITTENT STREAM CROSSING)

STA 2026+90
REMOVE 1-54" CPCM

ENCROACHMENT
SPOTLIGHT

PROP R/W

EXIST R/W

MATCHLINE 2024+00

ENCROACHMENT BRIDGE

WEST FRONTAGE ROAD

REMOVE FENCE

INDVEST LLC

PROP R/W

3 MILE RD

R/L 3 MILE ROAD

STA 28+75
1-24" CPRC REQ'D

EXIST R/W

STA 28+99 REMOVE 1-24" CP

SLOPE INTERCEPT

R/L WEST FRONTAGE ROAD

SALVAGE RAIL

SALVAGE END TREATMENTS

R/L IH 94

END PROJECT
I.D. 1030-11-78
STA 2030+25.00

HAGEMANN

EXIST R/W

N

2024 2026 2028 2030 2032 2034 2036 2038

1024 1026 1028 1030 1032 1034 1036 1038

5 5

770 765 760 755 750 745 740 735

CONSTRUCTED UNDER
PROJECT 1030-11-74

EXISTING PROFILE AT ℄
WEST FRONTAGE ROAD

VPC STA 2027+25.00
VPC EL 743.83

VPRC STA 2030+25.00
VPRC EL 748.82

FINISHED PROFILE AT ℄
WEST FRONTAGE ROAD

VCL = 300'
K = 243

1.05%

VPI STA 2028+75.00
VPI EL 745.40

END PROJECT
I.D. 1030-11-78
STA 2030+25
MATCH EXISTING

VCL = 950'
K = 533

EXISTING PROFILE ELEVATIONS

FINISHED PROFILE ELEVATIONS

| | | |

10301177-00008RDAPERM

I-94 PROPERTIES

CAUTION

TLE

SLOPE INTERCEPT

R/L WEST FRONTAGE ROAD

BEGIN CONSTRUCTION
STA 46+16.29

EXIST R/W

DAVIES

STUBLASKI

MILLER

KRAUT RD

BROWN

LUDWIG

BROWN

R/L KRAUT ROAD

BROWN

PROP R/W

WEST FRONTAGE ROAD

IH 94 SB

IH 94 NB

R/L IH 94

EAST FRONTAGE ROAD

R/L EAST FRONTAGE ROAD

PATEL

YAHNKE

END CONSTRUCTION
STA 52+19.89

BADGER LAND CO

SADLON

PROP R/W

SLOPE INTERCEPT

NOTE: SEE EAST/WEST FRONTAGE ROAD PLANS FOR REMOVALS AND PIPE NOTES

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EXISTING PROFILE AT R KRAUT ROAD

BEGIN CONSTRUCTION
STA 46+16.29

VPI STA 46+16.29
VPI EL 753.00

-0.65%

R/L WFR

VPI STA 47+59.39
VPI EL 752.08

-1.50%

VPC STA 48+00.00
VPC EL 751.47

MATCH EXISTING

FINISHED PROFILE CONSTRUCTED UNDER ID 1030-11-80 (FUTURE WORK BY OTHERS)

VPI STA 49+00.00
VPI EL 749.97

VCL = 200'
K = 100

LP STA 49+49.71
LP EL 750.35

VPT STA 50+00.00
VPT EL 750.47

0.50%

R/L EFR

VPI STA 50+56.00
VPI EL 750.76

-1.11%

MATCH EXISTING

FINISHED PROFILE AT R KRAUT ROAD

VPI STA 51+99.25
VPI EL 749.17

VPI STA 52+20.00
VPI EL 749.07

-0.47%

END CONSTRUCTION
STA 52+19.89

770 765 760 755 750 745 740 735

751.67 752.23 752.76 753.34 753.78 754.05 754.18 754.21 754.18 754.12 754.03 753.91 753.77 753.56 753.42 753.25 753.07 752.96 752.94 752.81 752.78 752.60 752.62 752.18 752.46 752.00 752.30 751.91 752.14 751.90 751.84 751.54 751.47 751.25 751.12 751.01 750.84 750.87 750.63 750.74 750.47 750.60 750.38 750.46 750.35 750.32 750.38 750.06 750.47 749.99 750.60 750.17 750.72 749.97 750.54 749.75 750.27 749.53 749.99 749.39 749.71 749.25 749.43 749.14 749.16 749.05 748.96 748.90 748.97 749.09 749.45 749.81 750.21 750.43 750.31 749.87 749.39

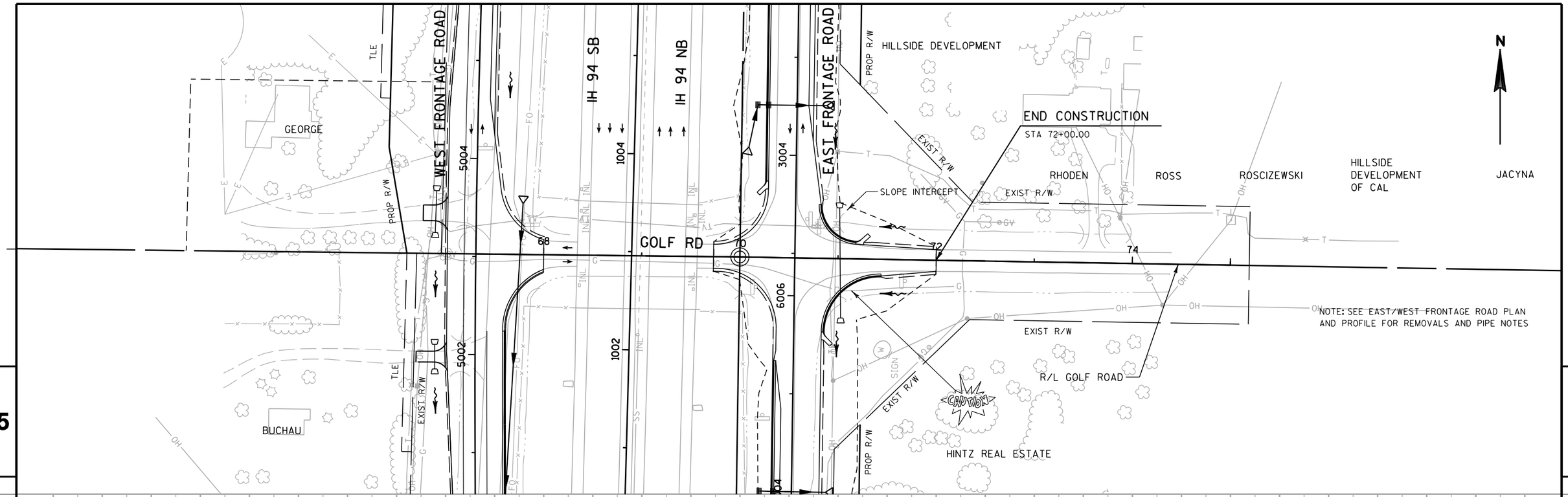
42 44 46 48 50 52 54 56 57

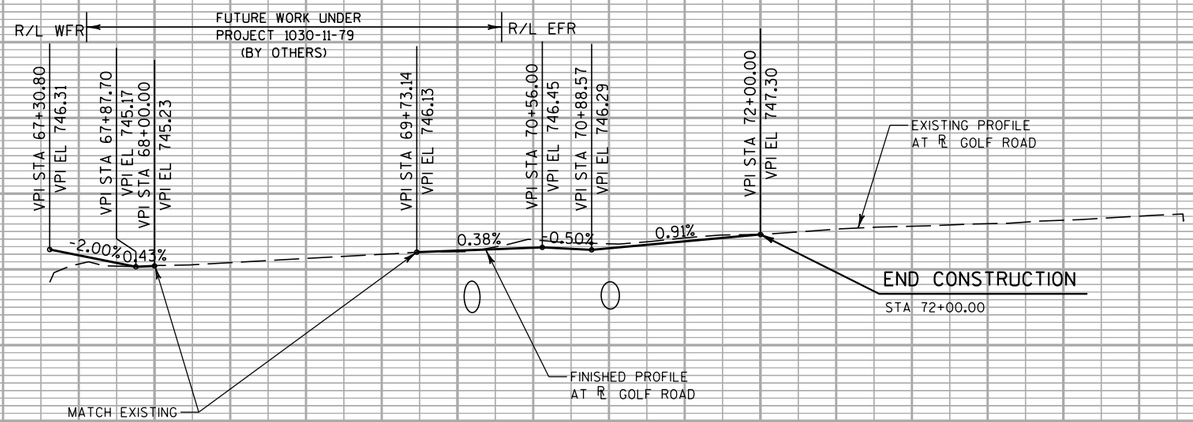
PROJECT NO: 1030-11-77/78	HWY: IH 94	COUNTY: RACINE	PLAN & PROFILE: KRAUT ROAD	SHEET 259	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\050121_pp.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:100

WISDOT/CADDS SHEET 40

10301177-00008RDAPERM





765 760 755 750 745 740 735 730

745.35 745.93 745.21 745.43 745.24 745.23 745.30 745.44 745.58 745.72 745.86 745.99 746.14 746.16 746.48 746.32 746.95 746.43 746.75 746.36 746.69 746.39 746.82 746.62 747.08 746.85 747.27 747.08 747.30 747.30 747.47 747.65 747.78 747.85 747.93 748.01 748.12 748.24 748.37 748.51 748.64

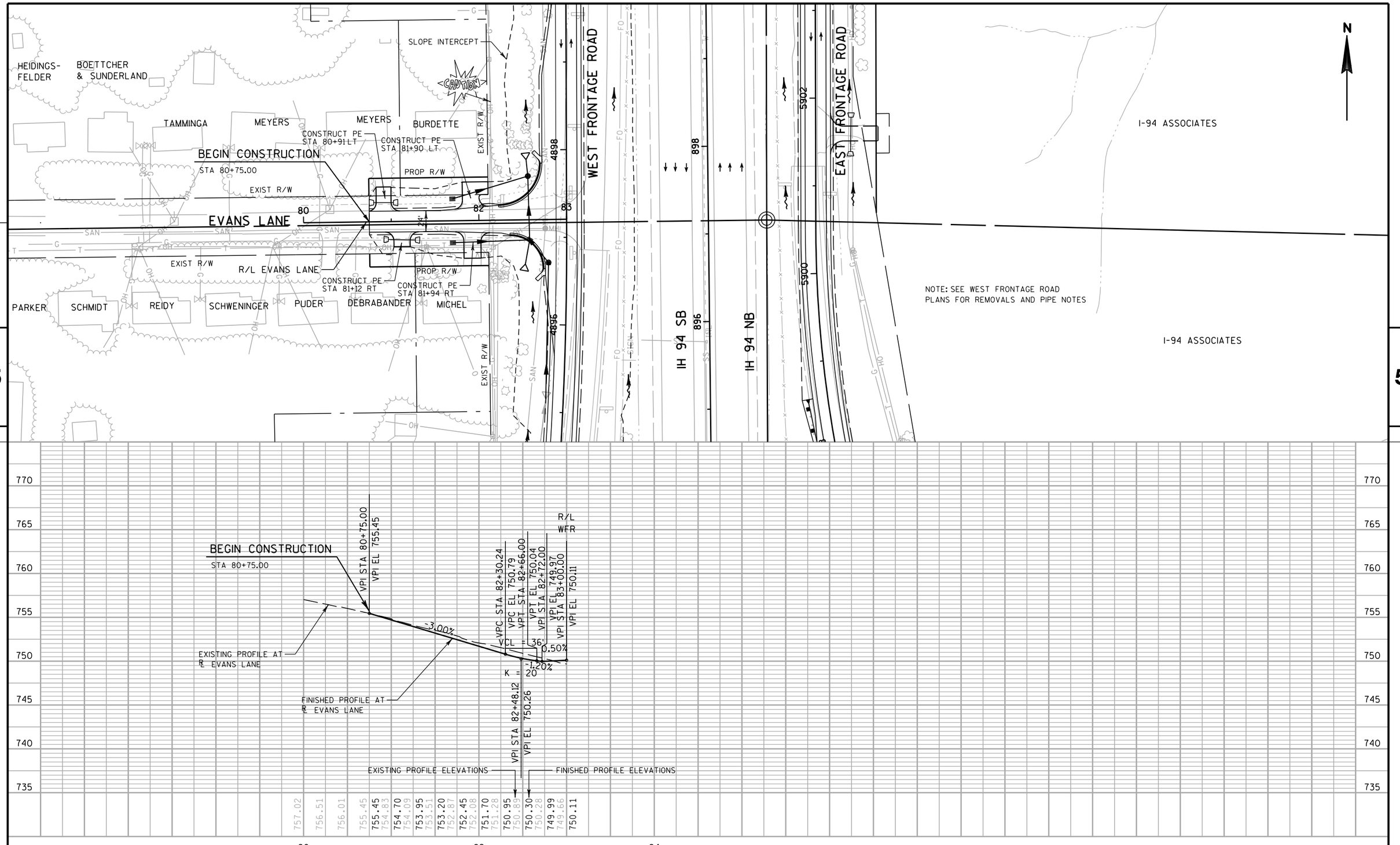
63 64 66 68 70 72 74 76 78

PROJECT NO: 1030-11-77/78	HWY: IH 94	COUNTY: RACINE	PLAN & PROFILE: GOLF ROAD	SHEET 260	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\050122_pp.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:100

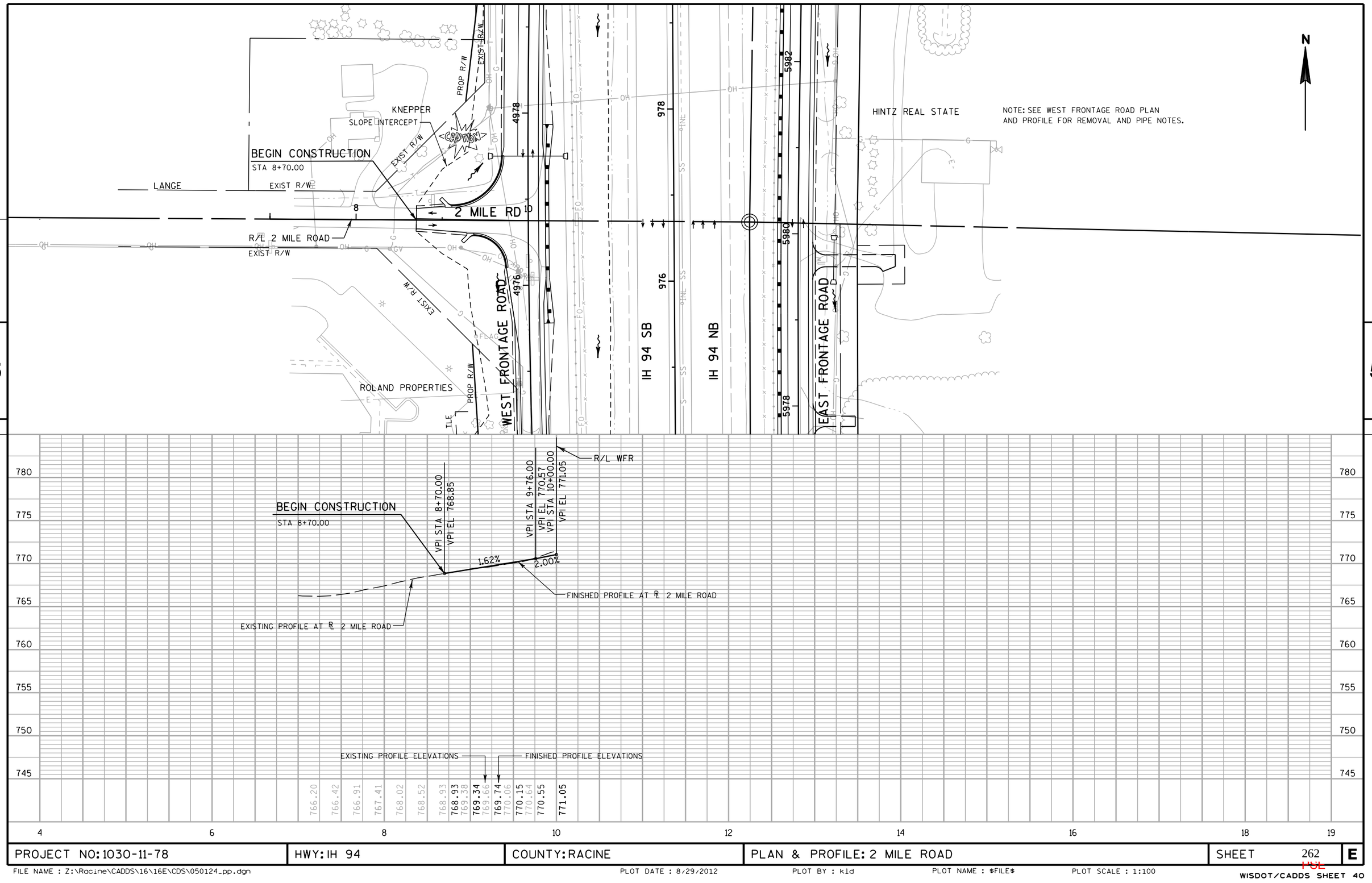
WISDOT/CADDS SHEET 40

10301177-00008RDAPERM



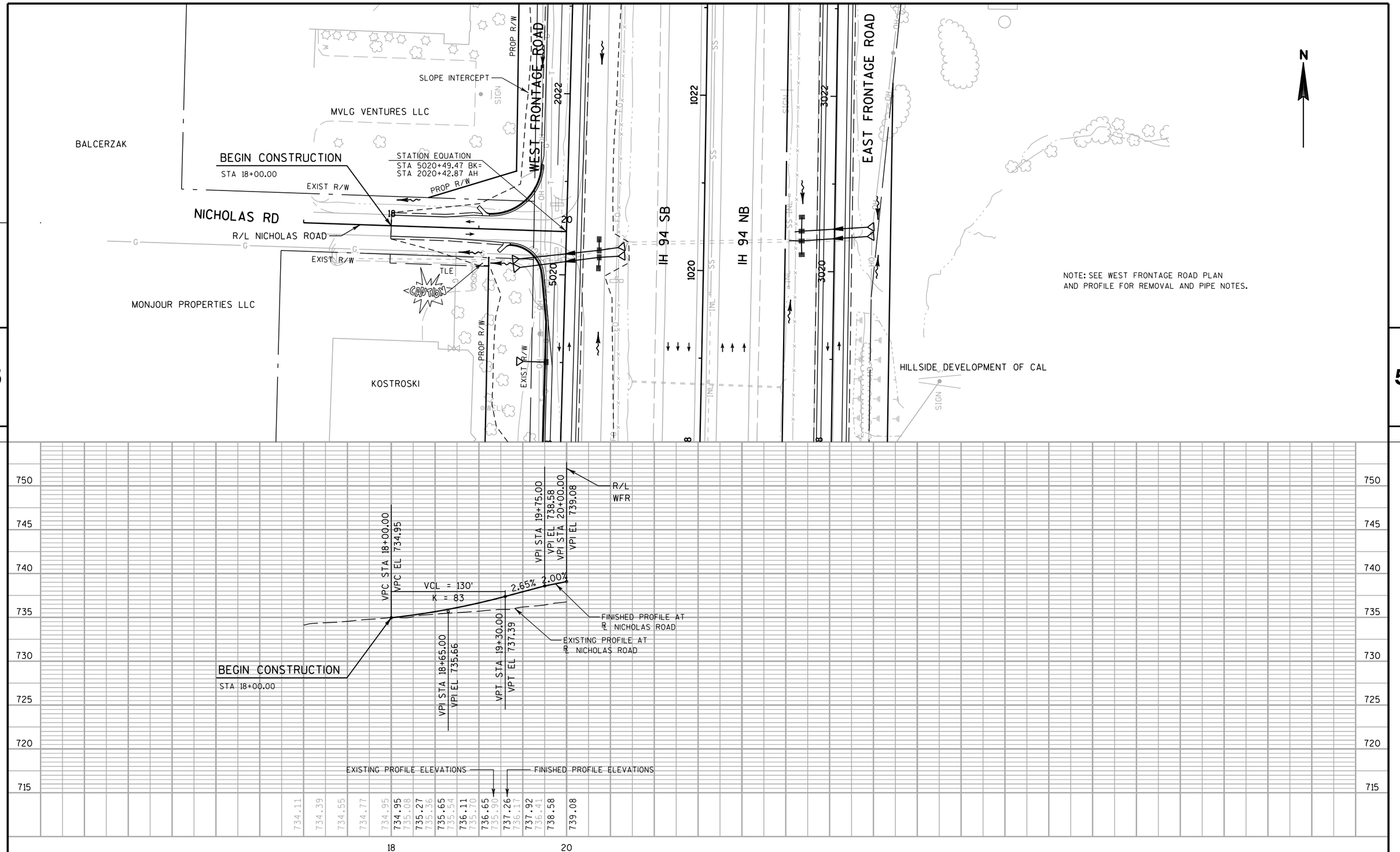
PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	PLAN & PROFILE: EVANS LANE	SHEET 261	E

10301177-00008RDAPERM



PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	PLAN & PROFILE: 2 MILE ROAD	SHEET 262	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\050124_pp.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : $FILE$ | PLOT SCALE : 1:100



PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	PLAN & PROFILE: NICHOLAS ROAD	SHEET 263	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\050125_pp.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:100

HAGEMANN

BEGIN CONSTRUCTION
STA 27+25.00

EXIST R/W

EXIST R/W

EXIST R/W

WEST FRONTAGE ROAD

3 MILE RD

EXIST R/W

PROP R/W
R/L 3 MILE ROAD

SLOPE INTERCEPT

INDVEST LLC

PROP R/W

EXIST R/W

EAST FRONTAGE ROAD

NOTE: SEE WEST FRONTAGE ROAD PLAN AND PROFILE FOR REMOVAL AND PIPE NOTES.

BADGER LAND COMPANY

HILLSIDE DEVELOPMENT OF CAL

N

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R/L WFR

VPI STA 27+00.00
VPI EL 741.47
VPC STA 27+25.00
VPC EL 741.66

VCL = 200'
K = 104

0.77%

2.70%

2.00%

VPI STA 29+75.00
VPI EL 746.48
VPI STA 30+00.00
VPI EL 746.98

FINISHED PROFILE AT ℄ 3 MILE ROAD

EXISTING PROFILE AT ℄ 3 MILE ROAD

BEGIN CONSTRUCTION
STA 27+25.00

VPI STA 28+25.00
VPI EL 742.43

VPT STA 29+25.00
VPT EL 745.13

EXISTING PROFILE ELEVATIONS

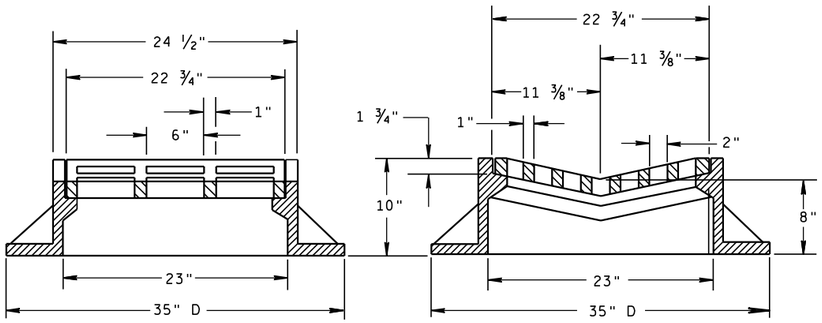
FINISHED PROFILE ELEVATIONS

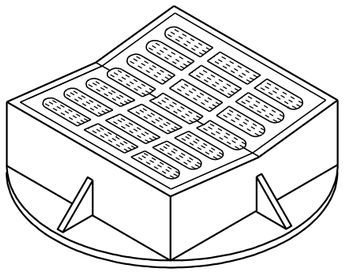
| | | |

Standard Detail Drawing List

08A05-18B	INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM
08A05-18C	INLET COVERS TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S
08A05-18D	INLET COVER, TYPE BW, Z MANHOLE COVERS, TYPE K, J, J-S, L & M
08B09-01	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER
08C06-01	INLETS 3-FT AND 4-FT DIAMETER
08C07-01	INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT
08C08-01	INLETS MEDIAN 1 AND 2 GRATE
08C09-01	INLETS MEDIAN 3 AND 4 GRATE
08D01-17	CONCRETE CURB, CONCRETE CURB AND GUTTER AND TIES
08D04-05	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08D15-04A	EDGEDRAIN OUTLET AND OUTFALL MARKERS
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08E14-01	TRACKING PAD
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F02-01	APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
08F06-04	REINFORCED CONCRETE APRON ENDWALL FOR PIPE UNDERDRAIN
08F07-04	STEEL APRON ENDWALLS FOR CULVERT PIPE AND PIPE ARCH SLOPED SIDE FRAINS
08F08-02	STEEL APRON ENDWALLS FOR CULVERT PIPE AND PIPE ARCH SLOPED CROSS DRAINS
09A01-12A	AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND D AND TEE INTERSECTION BYPASS LANE
14B15-07A	STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION & ELEMENTS
14B15-07B	STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION & ELEMENTS
14B15-07C	STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS
14B18-06A	STEEL PLATE BEAM GUARD, CLASS "A" (AT BRIDGES, OBSTACLES AND SIDEROADS/DRIVEWAYS)
14B28-02	GUARDRAIL MOW STRIP
14B42-02A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-02B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-02C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-01A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-01B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-01C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
15A03-01	MARKER POSTS, FLEXIBLE, FOR CULVERT END
15B01-08A	FENCE WOVEN WIRE
15B01-08B	FENCE WOVEN WIRE
15C02-04A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-04B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-04C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C03-01	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C04-01	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C07-12B	PAVEMENT MARKING WORDS
15C07-12C	PAVEMENT MARKING ARROWS
15C08-14A	PAVEMENT MARKING (MAINLINE)
15C08-14B	PAVEMENT MARKING (INTERSECTIONS)
15D27-01	TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH
15D28-01	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
16A01-06	LANDMARK REFERENCE MONUMENTS AND COVERS

6

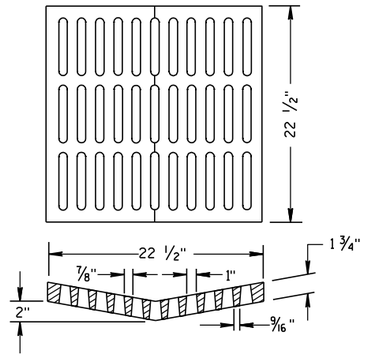




TYPE "B"

(APPROXIMATE WEIGHT 405 LBS.)

FRAME..... 294 LBS.
GRATE..... 111 LBS.

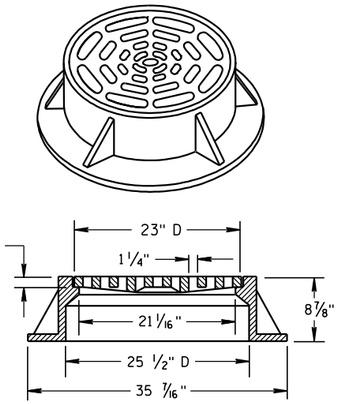


ALTERNATIVE GRATE FOR TYPE "B" COVER

(APPROXIMATE GRATE WEIGHT 134 LBS.)

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS POSSIBLE.

NOTED AS TYPE B-A ON THE DRAINAGE TABLE



TYPE "C"

(APPROXIMATE WEIGHT 259 LBS.)

FRAME..... 152 LBS.
GRATE..... 107 LBS.

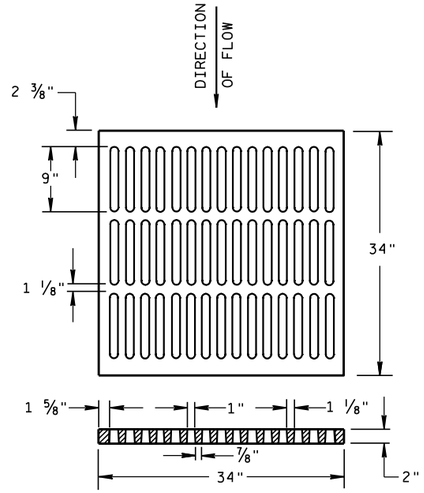
GENERAL NOTES

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.

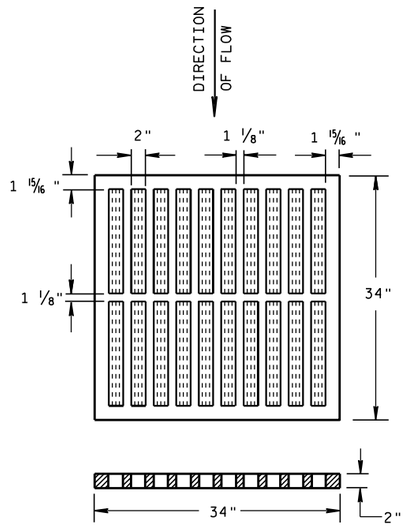


ALTERNATIVE TYPE "MS"

(APPROXIMATE GRATE WEIGHT 329 LBS.)

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS PERMITTED

NOTED AS TYPE MS-A ON THE DRAINAGE TABLE

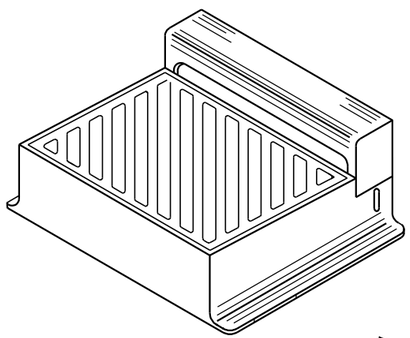


TYPE "MS"

(APPROXIMATE GRATE WEIGHT 268 LBS.)

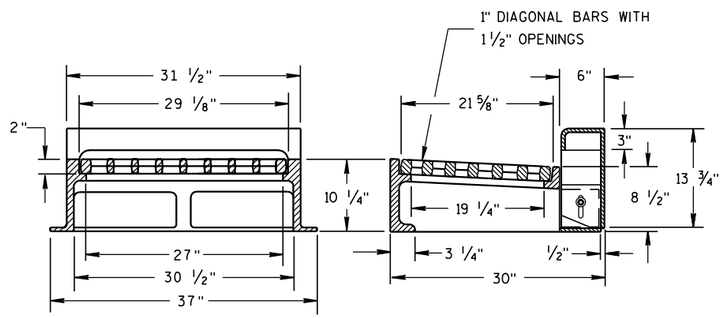
USE ON FREEWAYS AND EXPRESSWAYS

NOTED AS TYPE MS ON DRAINAGE TABLE



DIRECTION OF FLOW

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 648 LBS.)

FRAME..... 355 LBS.
GRATE..... 156 LBS.
CURB BOX..... 137 LBS.

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

6/5/2012
DATE

/S/ Jerry H. Zaas
ROADWAY STANDARDS ENGINEER

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FHWA

PSE

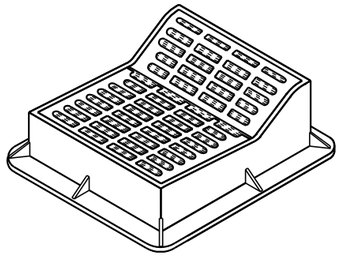
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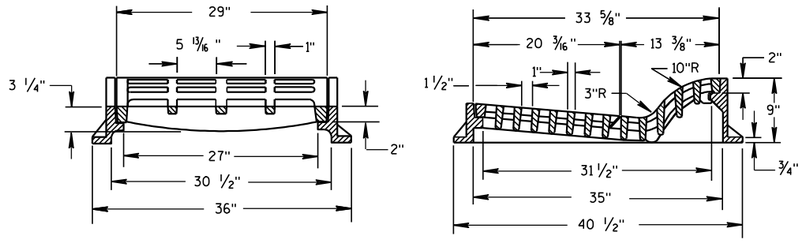
S.D.D. 8 A 5-18b

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S.D.D. 8 A 5-18b

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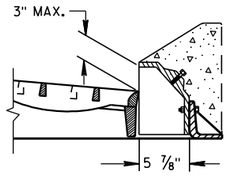


TYPE "F"

(APPROXIMATE WEIGHT 644 LBS.)

FRAME.....302 LBS.
GRATE.....160 LBS.
GRATE.....182 LBS.

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



ALTERNATIVE CURB BOX FOR TYPE "HM" COVER

(APPROXIMATE WEIGHT CURB BOX 68 LBS.)

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

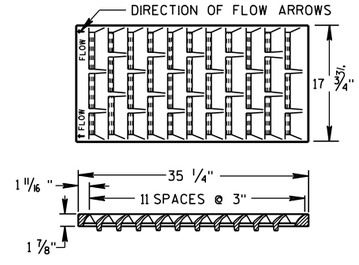
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM-GJ" COVER
NOTED AS TYPE HM-GJ-S ON DRAINAGE TABLE

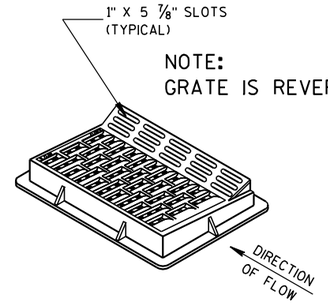
GENERAL NOTES

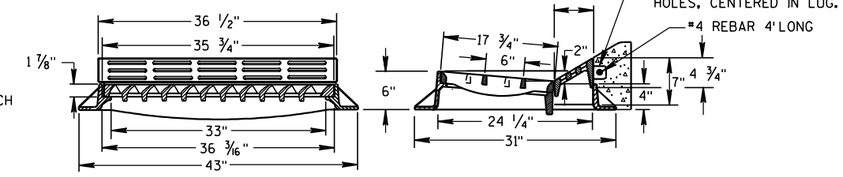
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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.





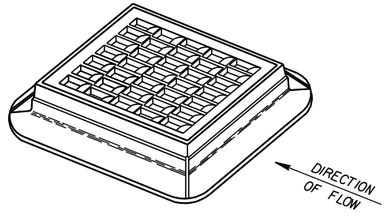


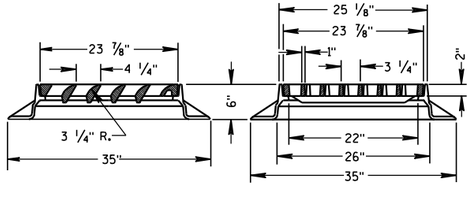
TYPE "HM"

(APPROXIMATE WEIGHT 414 LBS.)
FRAME..... 181 LBS.
GRATE..... 159 LBS.
CURB BOX..... 74 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

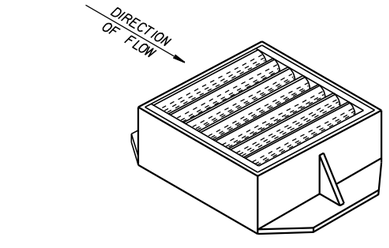


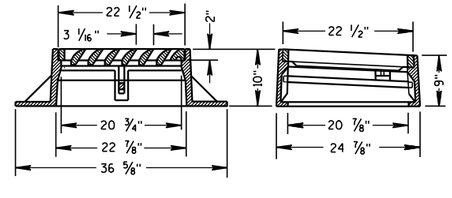


TYPE "S"

(APPROXIMATE WEIGHT 333 LBS.)

FRAME.....164 LBS.
GRATE..... 169 LBS.

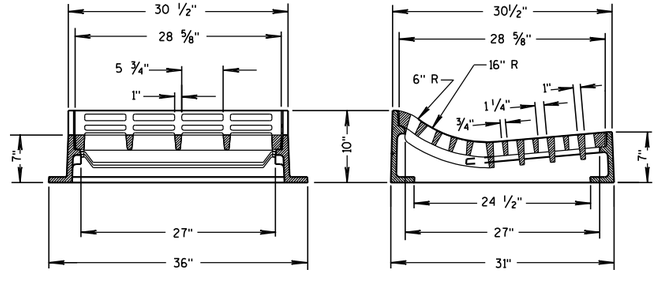


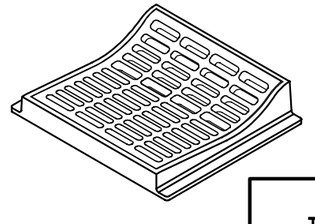


TYPE "V"

(APPROXIMATE WEIGHT 410 LBS.)

FRAME..... 269 LBS.
GRATE..... 136 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, 36 INCH.

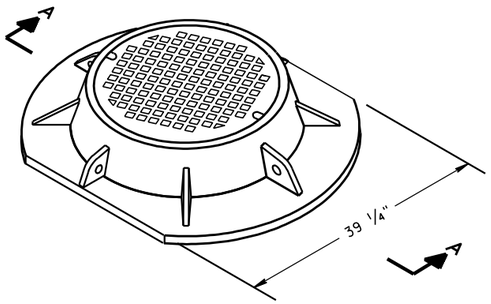
INLET COVERS
TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S

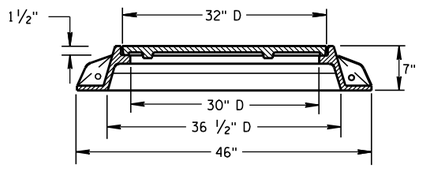
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

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S.D.D. 8 A 5-18c

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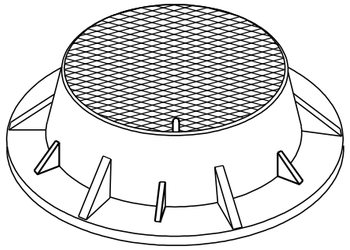


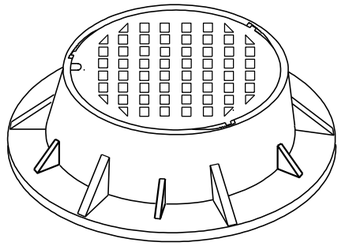
SECTION A-A

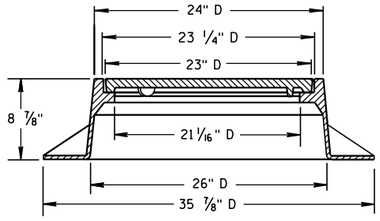
TYPE "K"

(APPROXIMATE WEIGHT 439 LBS.)

FRAME.....216 LBS.
LID.....223 LBS.



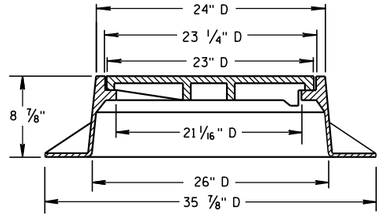




TYPE "J"

(APPROXIMATE WEIGHT 267 LBS.)

FRAME.....152 LBS.
LID.....115 LBS.



TYPE "J" SPECIAL

TYPE "B" NON-ROCKING SELF-SEAL LID

(APPROXIMATE WEIGHT 267 LBS.)

FRAME.....158 LBS.
LID.....109 LBS.

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

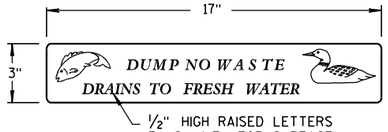
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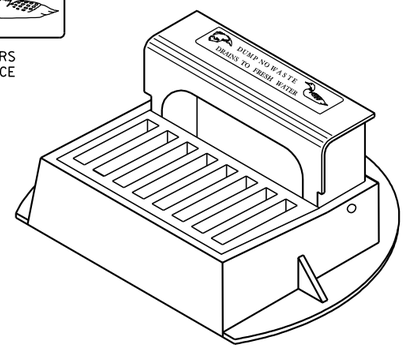
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR MANHOLE COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

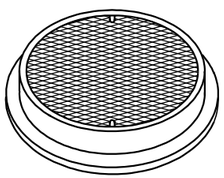
ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

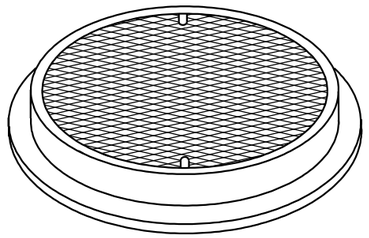
THE ACTUAL WEIGHT OF COVERS MAY VARY WITH 5 PERCENT, PLUS OR MINUS, OF THE APPROXIMATE WEIGHT.

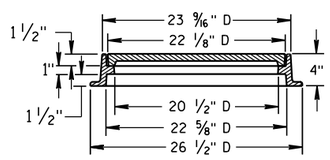


LOGO DETAIL





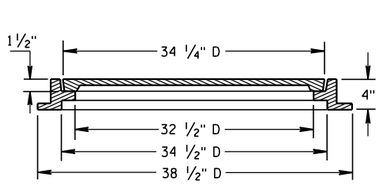




TYPE "L"

(APPROXIMATE WEIGHT 158 LBS.)

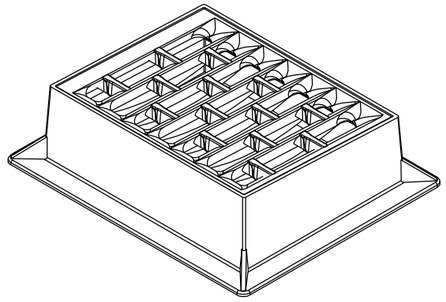
FRAME.....81 LBS.
LID.....77 LBS.

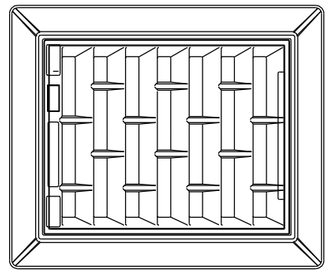


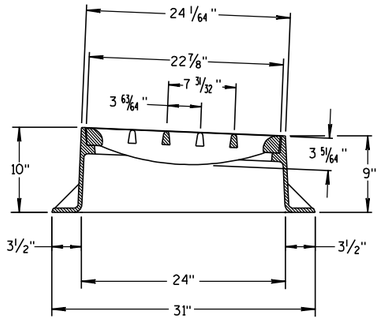
TYPE "M"

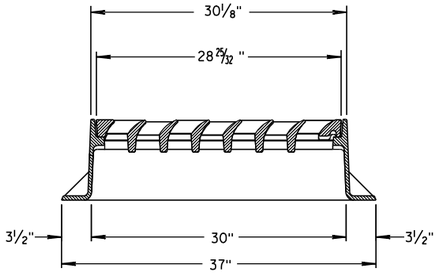
(APPROXIMATE WEIGHT 377 LBS.)

FRAME..... 125 LBS.
LID..... 252 LBS.

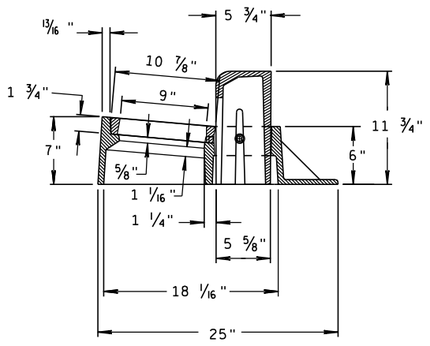


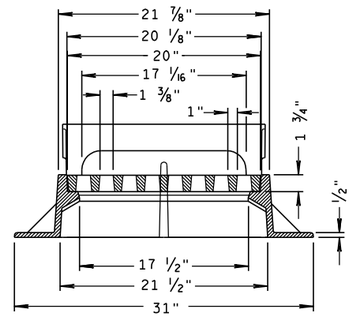






INLET COVER TYPE "BW"





INLET COVER TYPE "Z"

(APPROXIMATE WEIGHT 344 LBS.)

FRAME.....206 LBS.
GRATE..... 46 LBS.
CURB BOX..... 92 LBS.

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

6/5/2012
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

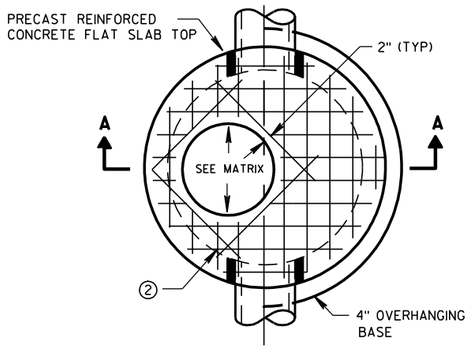
FHWA

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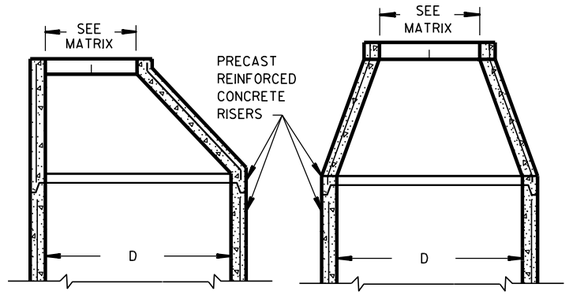
S.D.D. 8 A 5-18d

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S.D.D. 8 A 5-18d

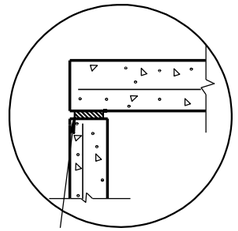


PLAN VIEW CIRCULAR OPENING

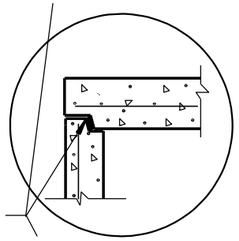


OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

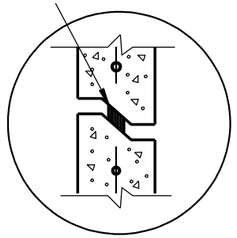


TOP WITH PLAIN END JOINT



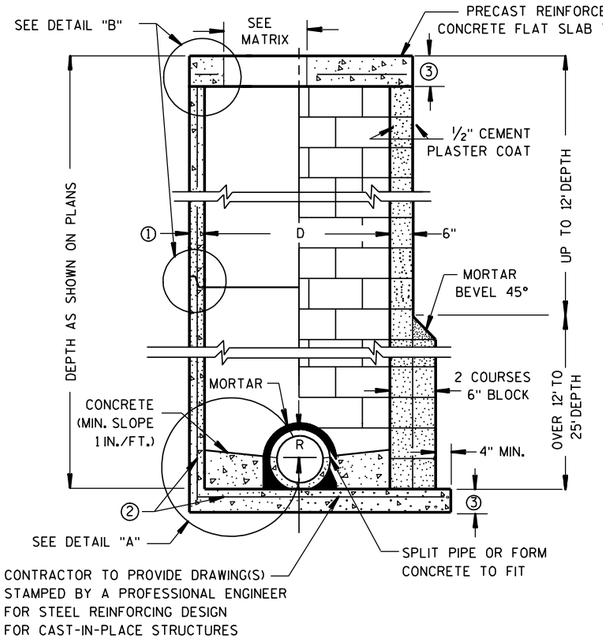
JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C990 (TYP)

TOP WITH TONGUE AND GROOVE JOINT



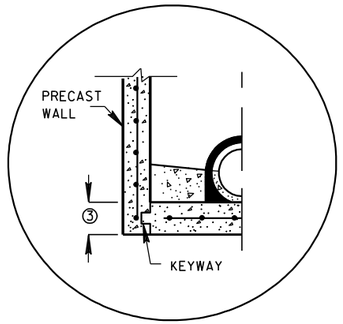
RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"

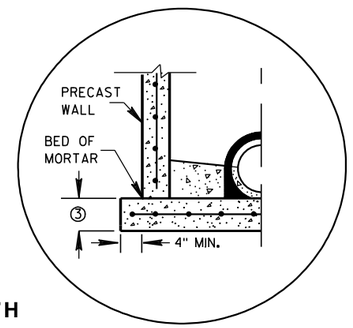


PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

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

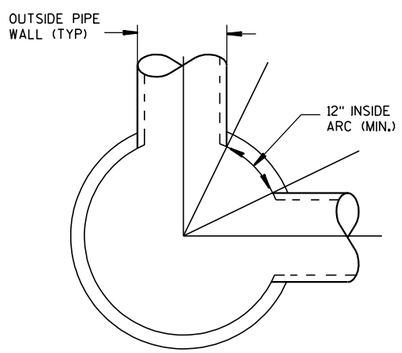


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPERATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "C"

GENERAL NOTES

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

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

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

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

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF 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) OR PRECAST REINFORCED FLAT SLAB TOPS 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 MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

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

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

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

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

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

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

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

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

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

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

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

MANHOLE COVER OPENING MATRIX

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

PIPE MATRIX

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

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

6/5/2012
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA

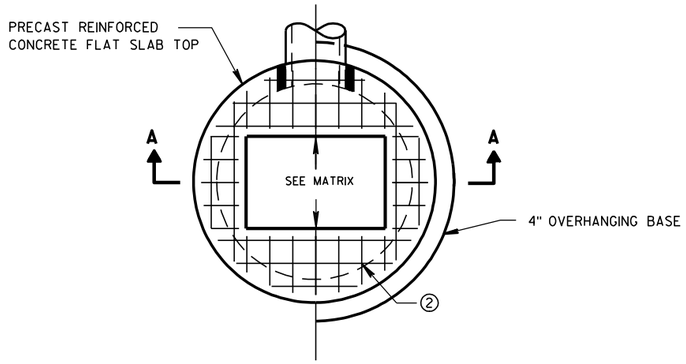
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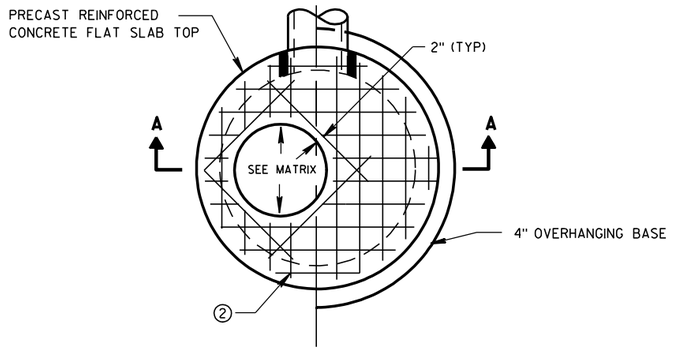
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PLAN VIEW RECTANGULAR OPENING



PLAN VIEW CIRCULAR OPENING

GENERAL NOTES

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

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

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

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

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

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

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199.

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

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

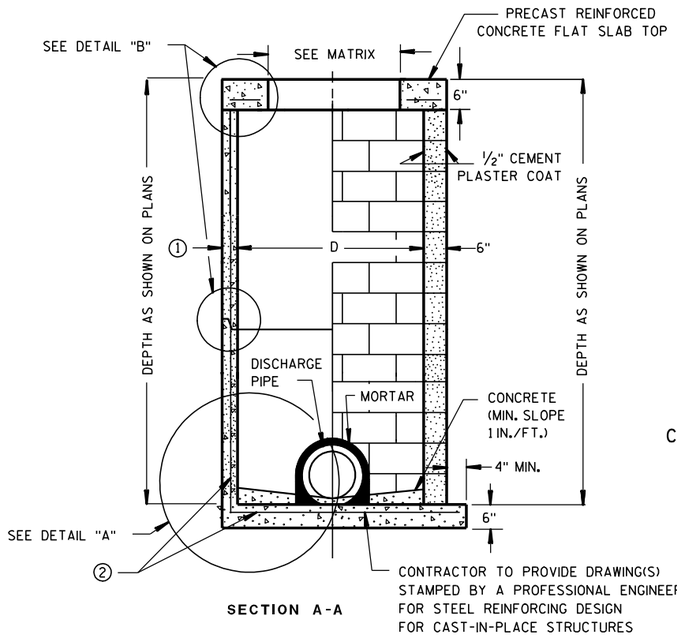
FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4-IN FOR 3-FT DIAMETER AND 5-IN FOR 4-FT DIAMETER PRECAST INLETS.

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

INLET COVER OPENING MATRIX

	INLET COVER TYPE	ALL A'S	ALL B'S	BW	C	F	ALL H'S	S	T	V	WM	Z
INLET SIZE	OPENING SIZE (FT)											
3-FT	2 DIA.				X							X
	2X2	X	X					X		X		
4-FT	2 DIA.				X							X
	2X2	X	X					X		X		
	2X2.5			X				X	X	X	X	
	2X3						X					
	2.5X3					X						

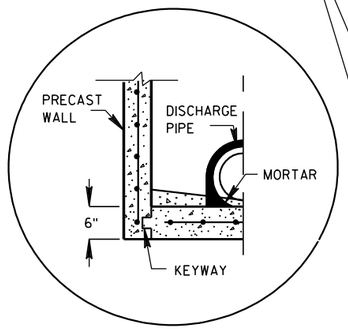


SECTION A-A

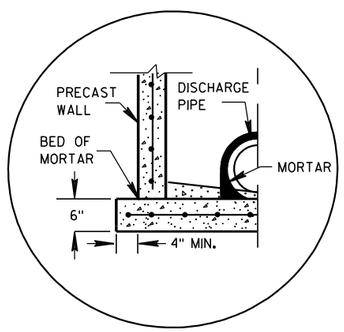
PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

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

CIRCULAR INLETS W/ FLAT TOP

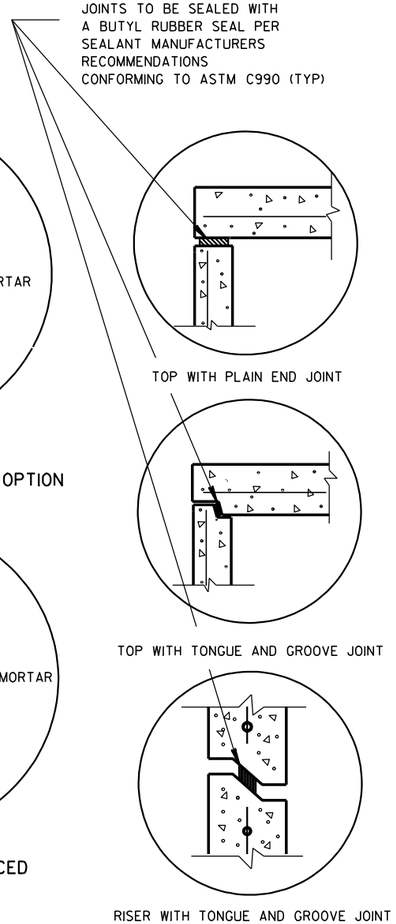


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION

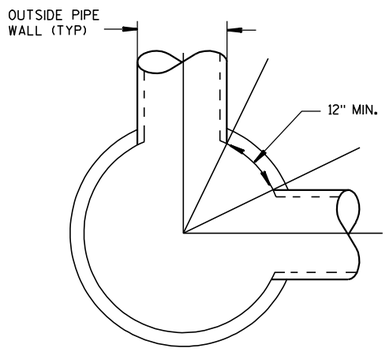


SEPERATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "B"



DETAIL "C"

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18

INLETS 3-FT AND 4-FT DIAMETER

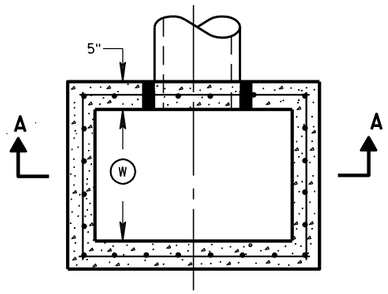
INLETS 3-FT AND 4-FT DIAMETER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

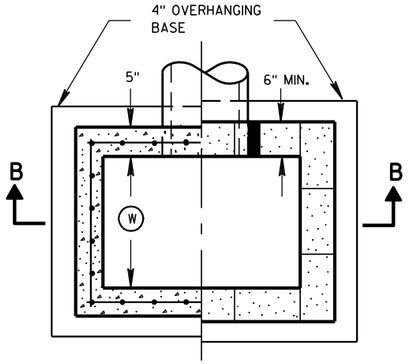
APPROVED
6/5/2012 DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

PSE

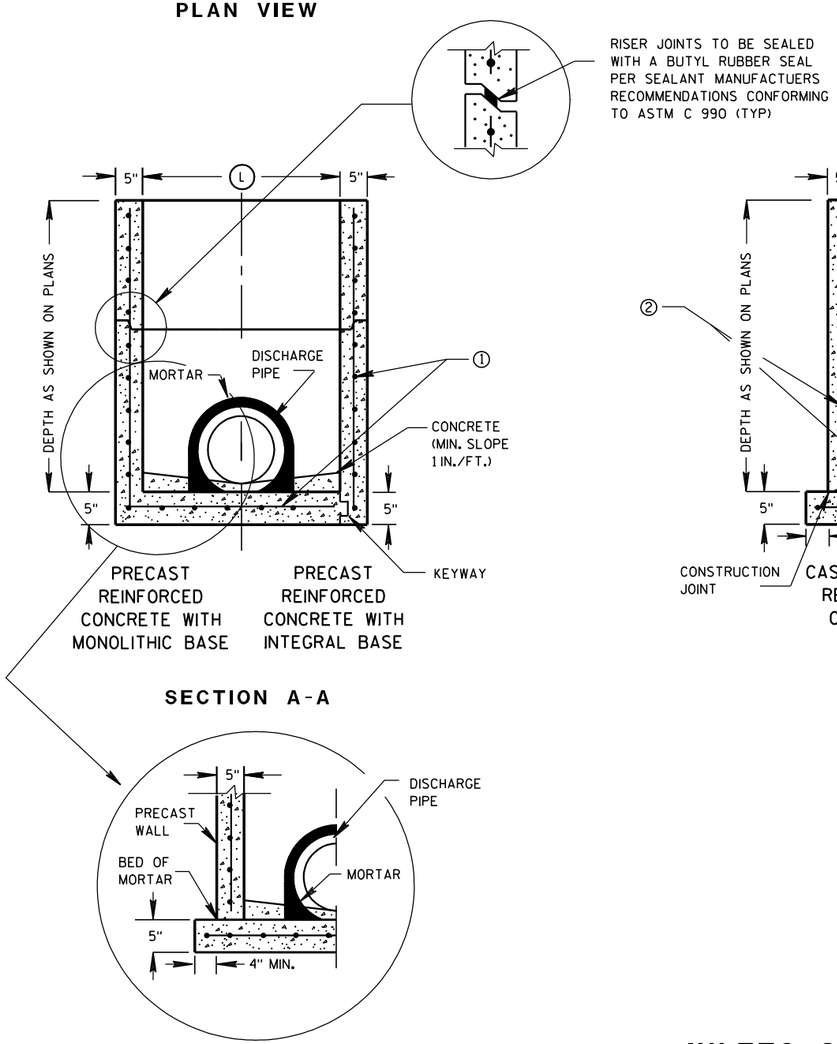
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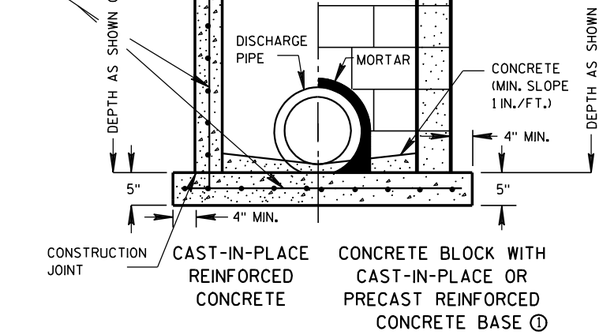
PLAN VIEW



PLAN VIEW



SECTION A-A



SECTION B-B

SEPERATE PRECAST REINFORCED CONCRETE BASE OPTION

GENERAL NOTES

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

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

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

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

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

4" OVERHANGING BASES ARE REQUIRED FOR CAST-IN-PLACE REINFORCED CONCRETE AND CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPERATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3 INCH CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

① FOR PRECAST INLETS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

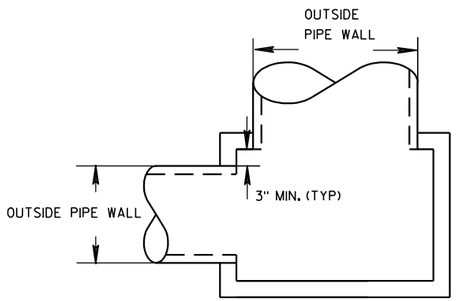
② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

INLET COVER MATRIX

INLET SIZE		INLET COVER TYPE	ALL A'S	ALL B'S	BW	F	ALL H'S	S	T	V	WM
	WIDTH (W) (FT)	LENGTH (L) (FT)									
2X2-FT	2	2	X	X				X		X	
2X2.5-FT	2	2.5			X			X	X	X	X
2X3-FT	2	3					X				
2.5X3-FT	2.5	3				X					

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER	
	WIDTH (IN)	LENGTH (IN)
2X2-FT	12	12
2X2.5-FT	12	18
2X3-FT	12	24
2.5X3-FT	18	24



DETAIL "A"

INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

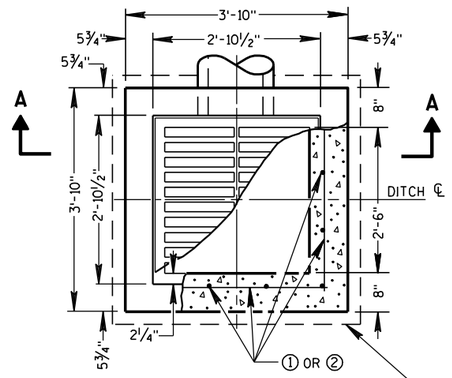
APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zoda — ROADWAY STANDARDS D — ENGINEER
271 — IT
FHWA — PSE

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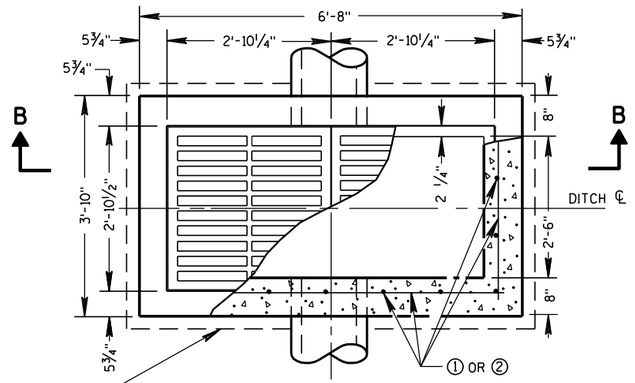
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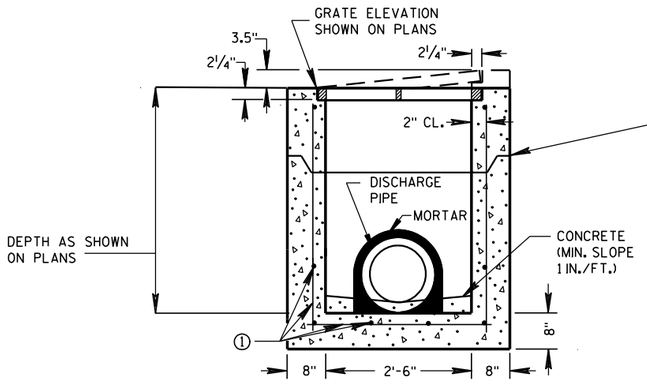


PLAN VIEW

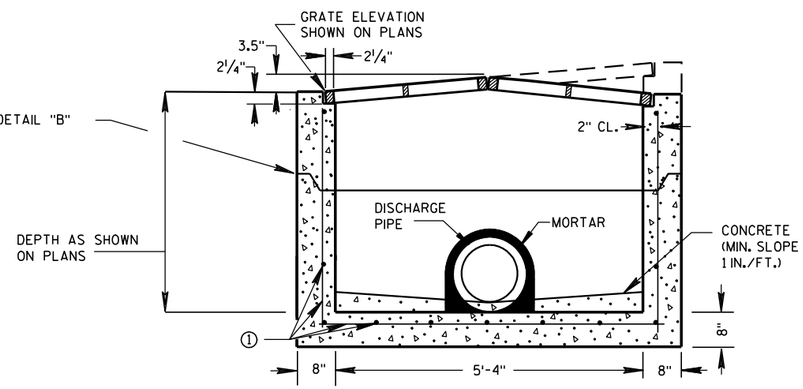


PLAN VIEW

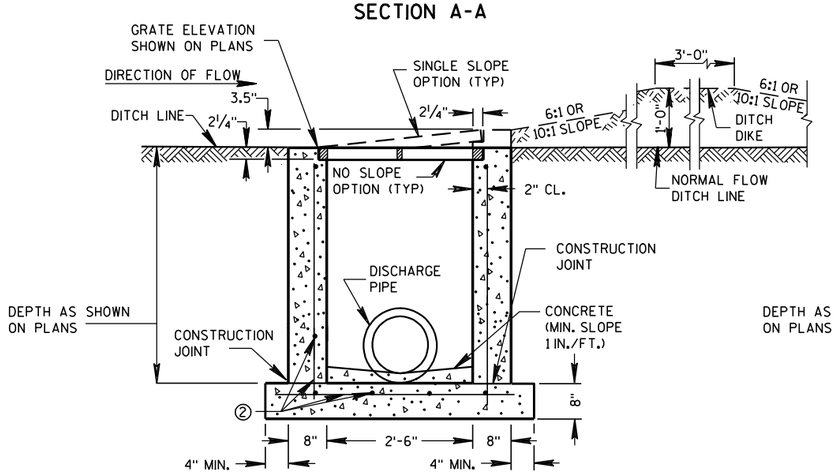
4" OVERHANGING BASE ON REINFORCED CAST-IN-PLACE CONCRETE INLETS



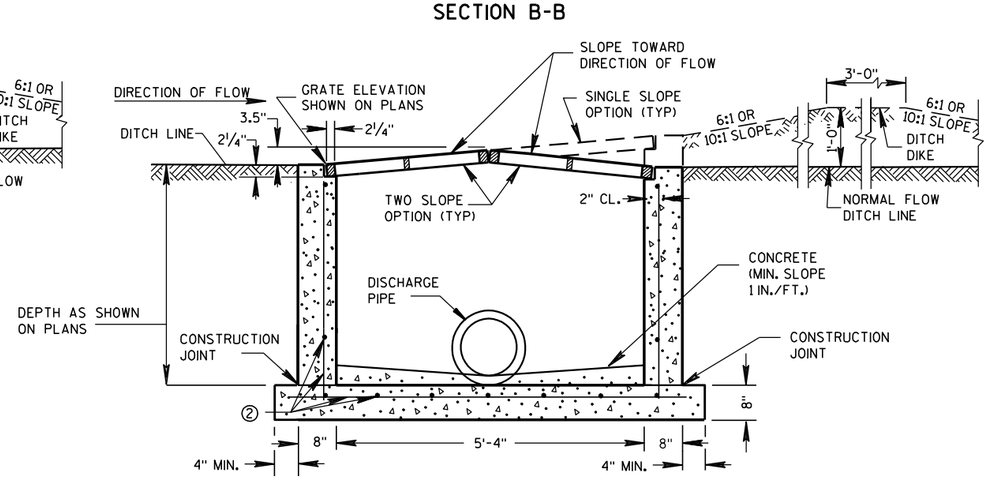
PRECAST REINFORCED CONCRETE SECTION A-A



PRECAST REINFORCED CONCRETE SECTION B-B



REINFORCED CAST-IN-PLACE CONCRETE SECTION A-A



REINFORCED CAST-IN-PLACE CONCRETE SECTION B-B

INLETS MEDIAN 1 GRATE

INLETS MEDIAN 2 GRATE

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ALL MEDIAN INLETS ARE DESIGNATED ON THE PLANS AS "INLETS, 1G-MS", ETC. THE FIRST NUMBER AND LETTER DESIGNATE THE TYPE OF STRUCTURE, AND THE FOLLOWING LETTERS DESIGNATE THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

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

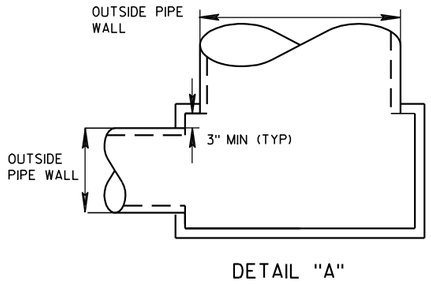
MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3" CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

① FOR PRECAST INLETS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

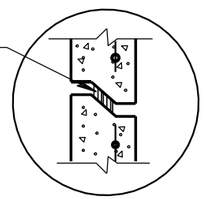
PIPE MATRIX

	MAXIMUM INSIDE PIPE DIAMETER	
INLET SIZE	WIDTH (IN)	LENGTH (IN)
1 GRATE	18	18
2 GRATE	18	42



DETAIL "A"

JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 (TYP)



DETAIL "B"

INLETS MEDIAN 1 AND 2 GRATE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

6/5/2012
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA

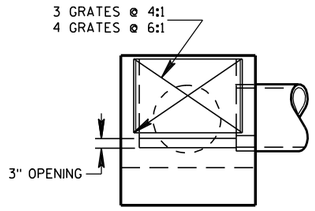
PSE

6

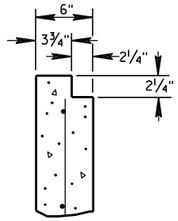
S.D.D. 8 C 8-1

6

S.D.D. 8 C 8-1



SECTION B-B



SECTION C-C

GENERAL NOTES

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

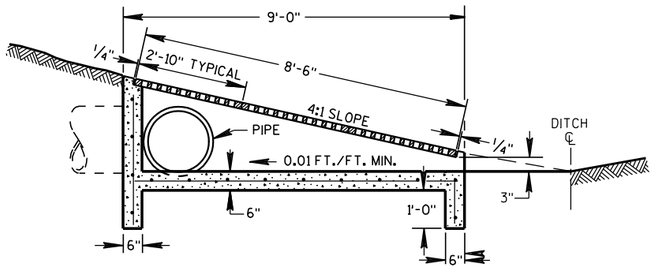
UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLETS WHICH MAY INCLUDE PRECAST REINFORCED CONCRETE INLETS, SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

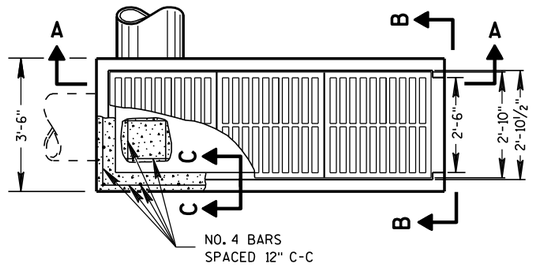
ALL MEDIAN INLETS ARE DESIGNATED ON THE PLANS AS "INLETS, 3G-MS", ETC. THE FIRST NUMBER AND LETTER DESIGNATE THE TYPE OF STRUCTURE, AND THE FOLLOWING LETTERS DESIGNATE THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

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

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

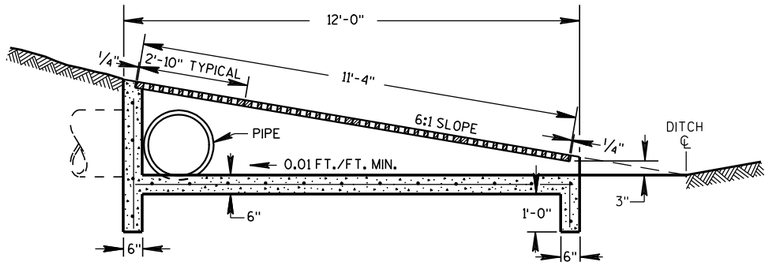


SECTION A-A

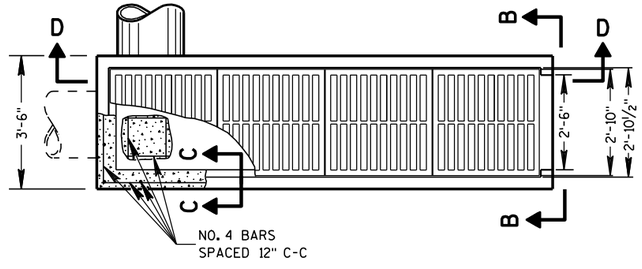


PLAN VIEW

INLETS MEDIAN 3 GRATE



SECTION D-D



PLAN VIEW

INLETS MEDIAN 4 GRATE

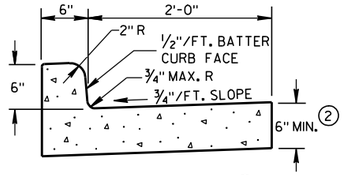
INLETS MEDIAN 3 AND 4 GRATE	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 6/5/2012 DATE	/S/ Jerry H. Zogg ROADWAY STANDARDS DEV ENGINEER
FHWA	

6

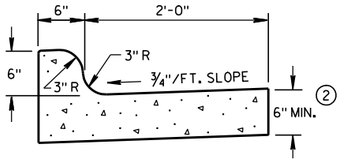
S.D.D. 8 C 9-1

6

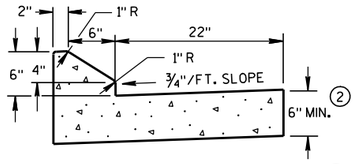
S.D.D. 8 C 9-1



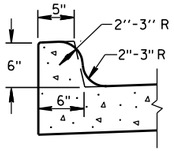
TYPES A & D (1)



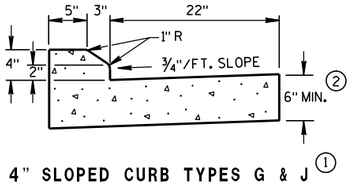
TYPES K & L (1)



6" SLOPED CURB TYPES G & J (1)

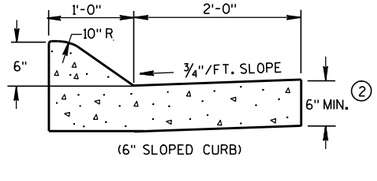


OPTIONAL CURB SHAPE FOR TYPES K & L (1)

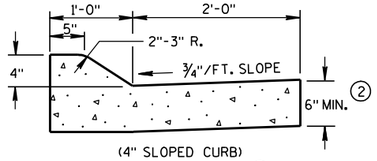


4" SLOPED CURB TYPES G & J (1)

CONCRETE CURB & GUTTER 30"

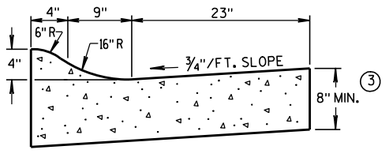


(6" SLOPED CURB)



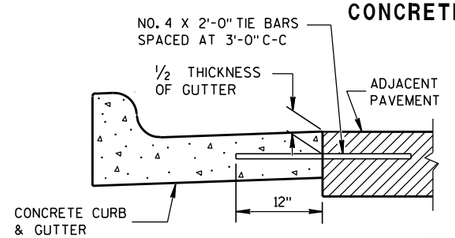
(4" SLOPED CURB)

TYPES A & D (1)

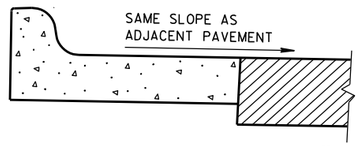


4" SLOPED CURB TYPES R & T (1) (4)

CONCRETE CURB & GUTTER 36"



TYPICAL TIE BAR LOCATION (1)



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

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.

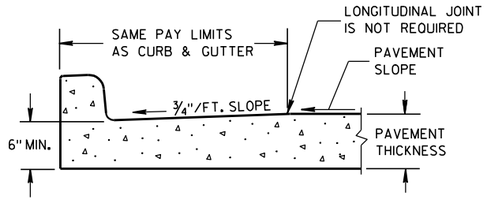
(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K AND R.

(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.

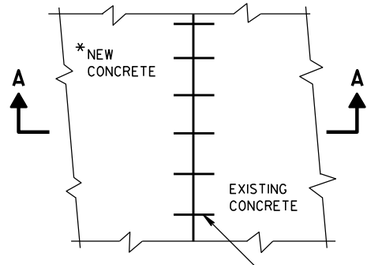
(3) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(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.

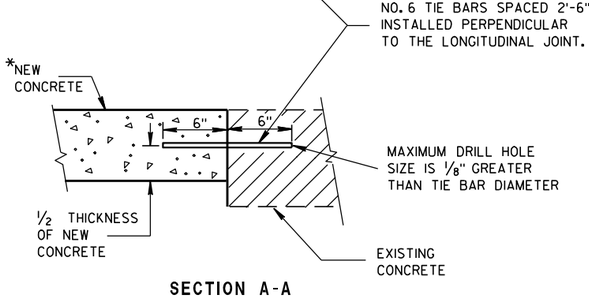


PARTIAL SECTION OF PAVEMENT WITH INTEGRAL CURB & GUTTER



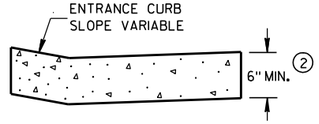
PLAN VIEW

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

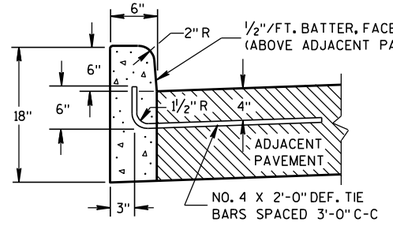


SECTION A-A

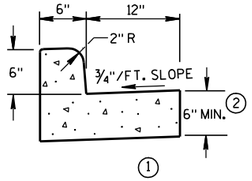
TIE BARS DRILLED INTO EXISTING PAVEMENT



DRIVEWAY ENTRANCE CURB
(WHEN DIRECTED BY THE ENGINEER)

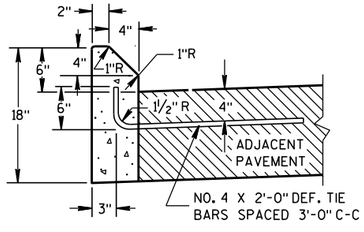


(1) TYPES A & D

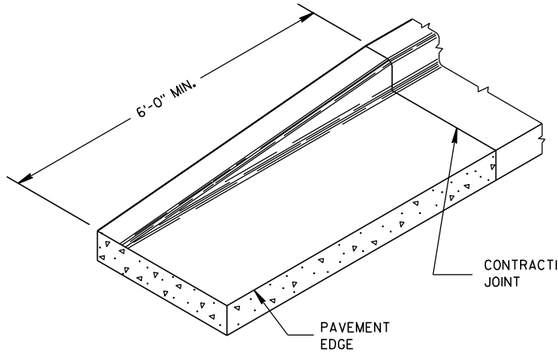


(1) TYPES A & D

CONCRETE CURB & GUTTER 18"



(1) TYPES G & J



END SECTION CURB & GUTTER

CONCRETE CURB

CONCRETE CURB, CONCRETE CURB & GUTTER AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

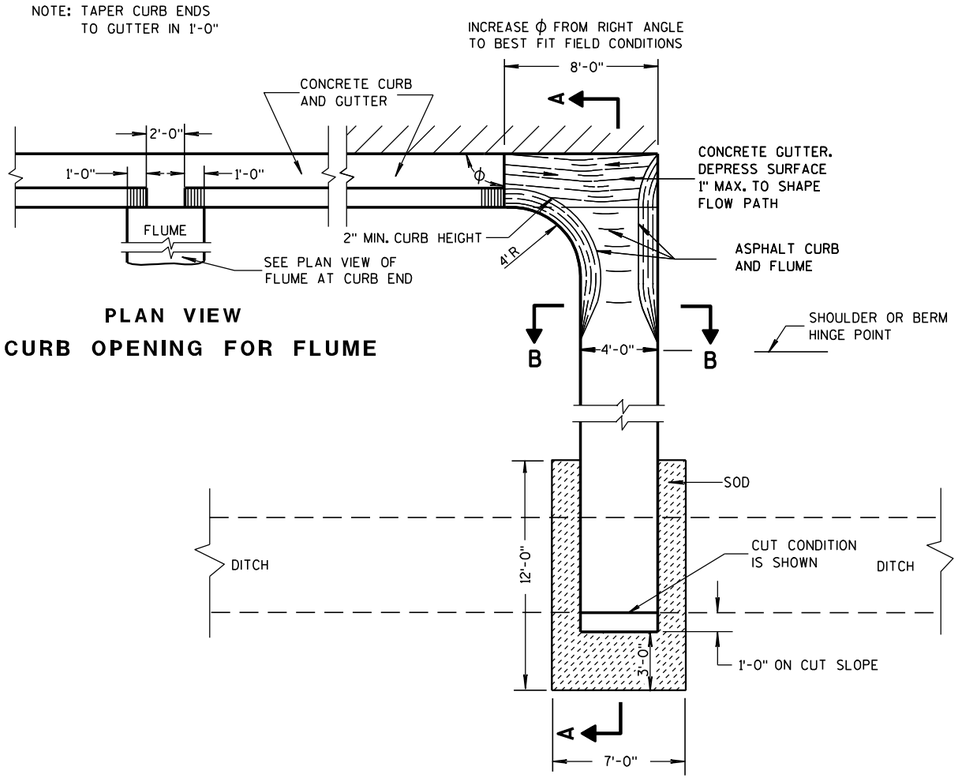
APPROVED
9/4/08 DATE
/S/ Jerry H. [illegible] ROADWAY STANDARDS ENGINEER
274 ENT
FHWA

6

S.D.D. 8 D 1-17

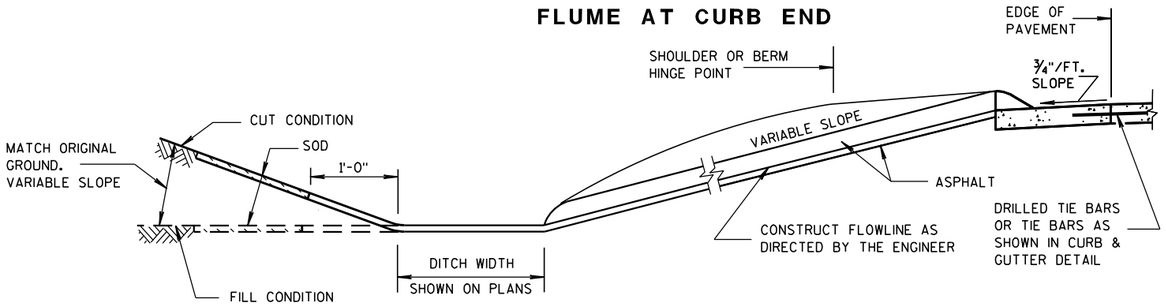
10301177-00008RDAPERM

ASPHALTIC FLUME

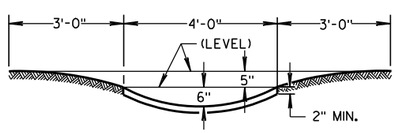


PLAN VIEW
CURB OPENING FOR FLUME

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.

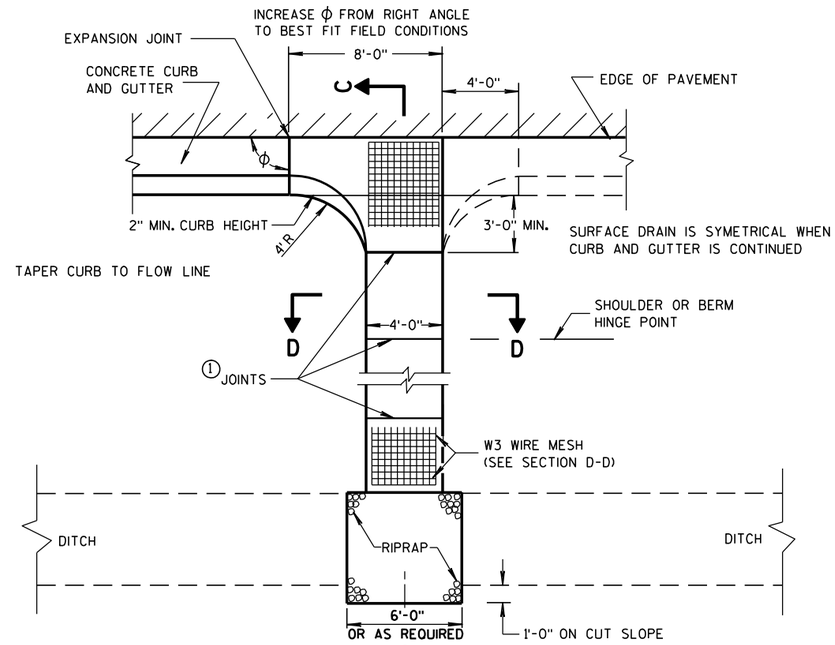
WELDED STEEL WIRE FABRIC SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

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

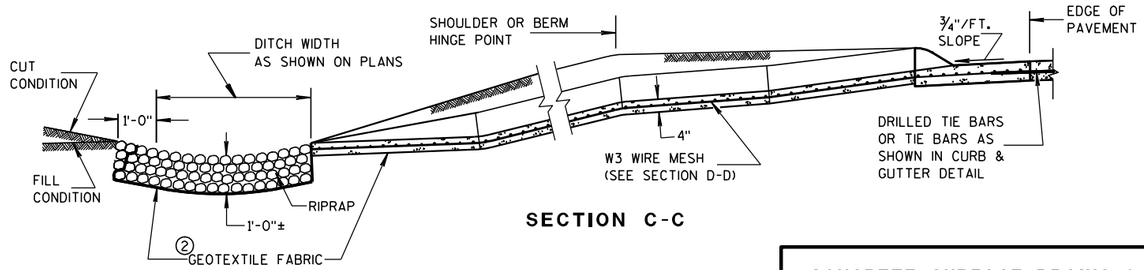
② GEOTEXTILE FABRIC TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.

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

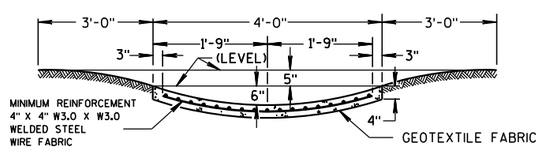
③ CONCRETE SURFACE DRAIN



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 ENGINEER
275 MENT
FHWA PSE

6

S.D.D. 8 D 4-5

6

S.D.D. 8 D 4-5

GENERAL NOTES

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

(1) UNPERFORATED PIPE UNDERDRAIN AND FITTINGS FURNISHED FOR OUTFALL PIPE SHALL MEET THE REQUIREMENTS OF ONE OF THE FOLLOWING SPECIFICATIONS:

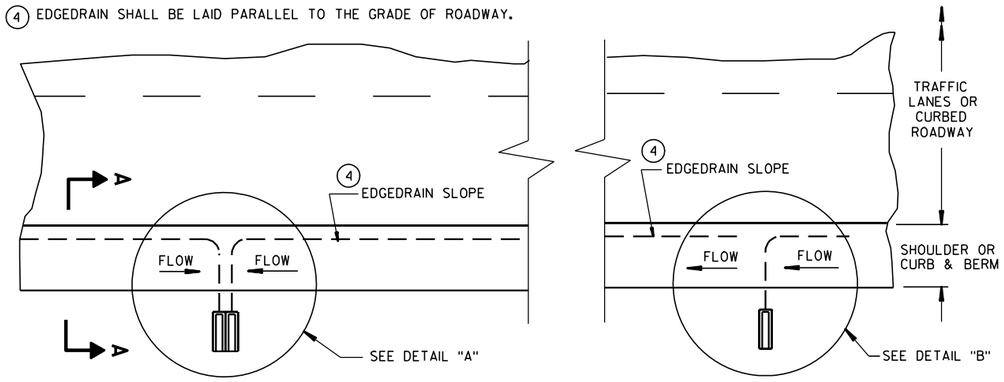
POLYVINYL CHLORIDE (PVC) PLASTIC DRAIN, WASTE, AND VENT PIPE AND FITTINGS, ASTM D 2665, SCHEDULE 40 PVC.

TYPE PSM POLYVINYL CHLORIDE (PVC) SEWER PIPE AND FITTINGS, ASTM D 3034, SDR 23.5 PVC SEWER PIPE.

(2) MAXIMUM SPACING OF EDGEDRAIN OUTLETS SHALL BE 250 FEET UNLESS OTHERWISE SPECIFIED IN THE CONTRACT OR DIRECTED BY THE ENGINEER.

(3) EDGEDRAIN SHALL BE CONNECTED TO INLETS REGARDLESS OF FLOW DIRECTION FOR DRAINAGE AND MAINTENANCE ACCESS.

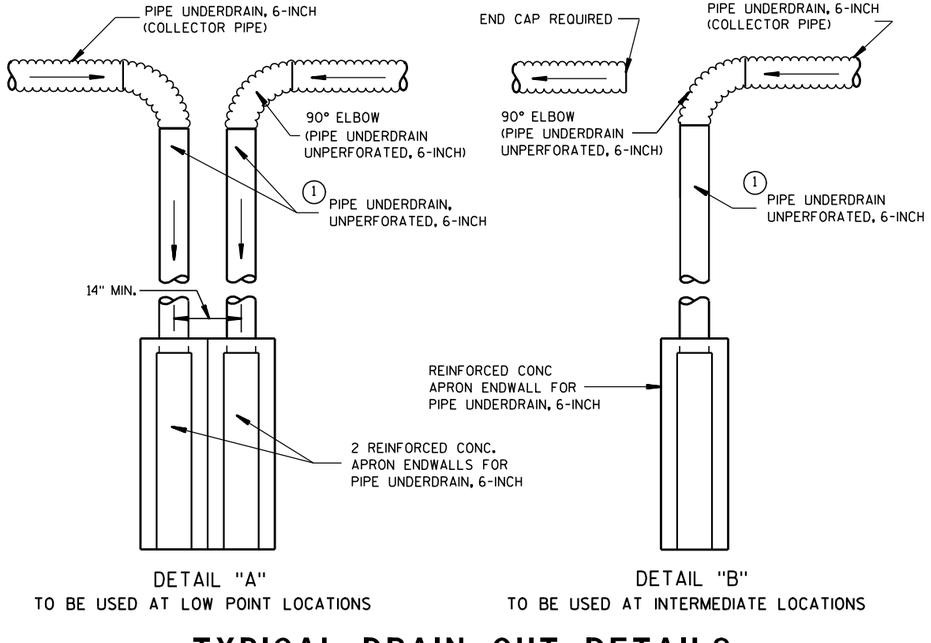
(4) EDGEDRAIN SHALL BE LAID PARALLEL TO THE GRADE OF ROADWAY.



PLAN VIEW

ROADWAY WITH SHOULDERS OR CURBS

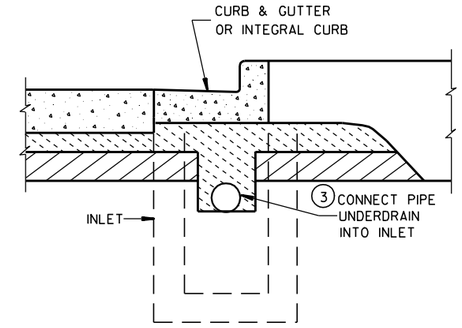
(EDGEDRAIN OUTLETS TO ROADSIDE)(2)



DETAIL "A"
TO BE USED AT LOW POINT LOCATIONS

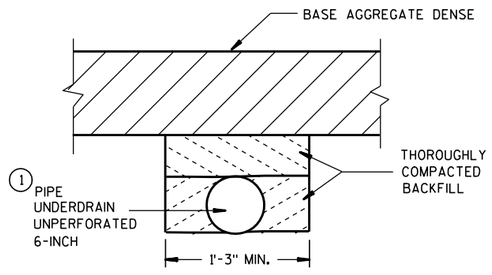
DETAIL "B"
TO BE USED AT INTERMEDIATE LOCATIONS

TYPICAL DRAIN OUT DETAILS



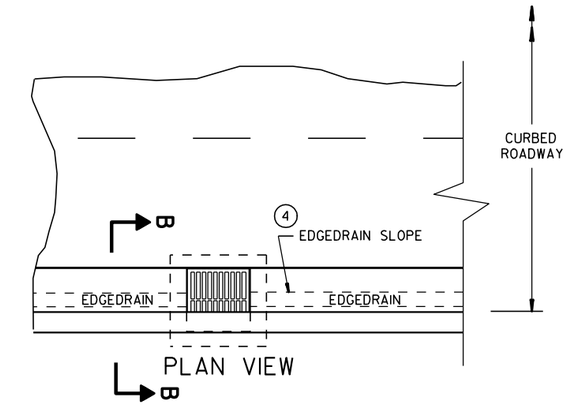
SECTION B-B

URBAN CROSS SECTION



SECTION C-C

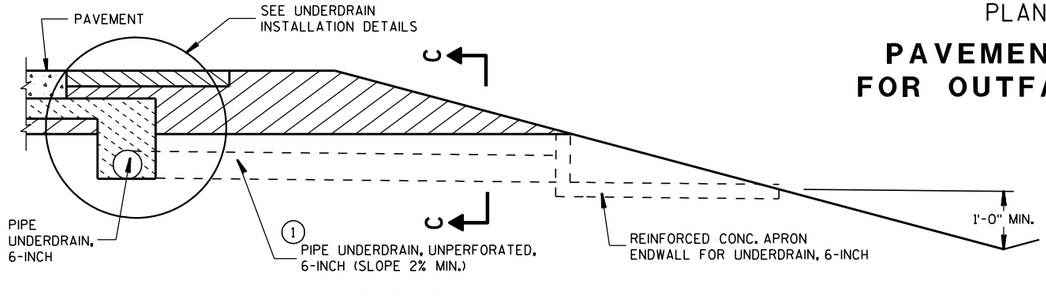
(TRENCH FOR OUTFALL PIPE)



PLAN VIEW

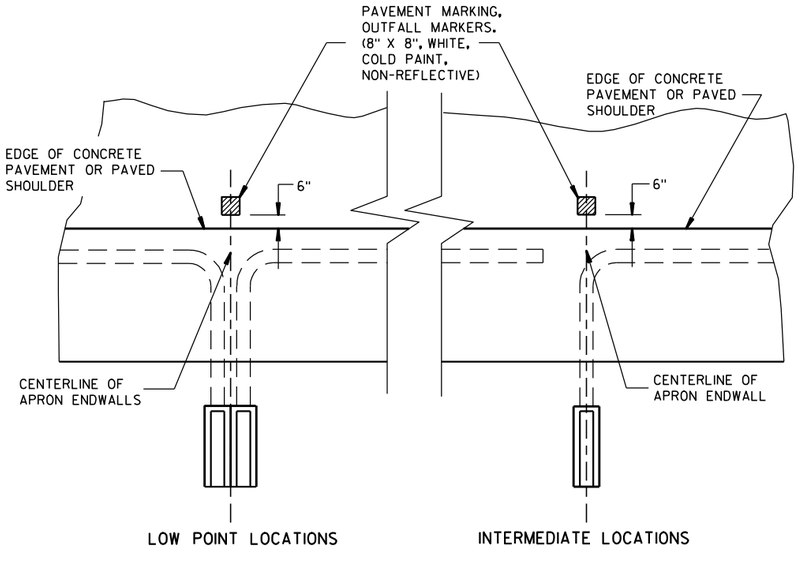
ROADWAY WITH CURBS

(EDGEDRAIN CONNECTS INTO INLET STRUCTURE)



SECTION A-A

RURAL CROSS SECTION



PLAN VIEW

PAVEMENT MARKING FOR OUTFALL MARKERS

EDGEDRAIN OUTLET AND OUTFALL MARKERS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

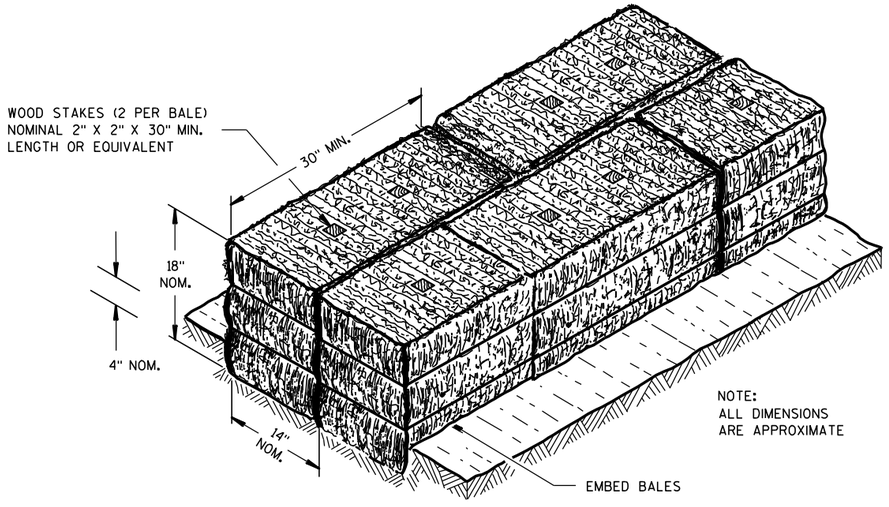
PSE

6

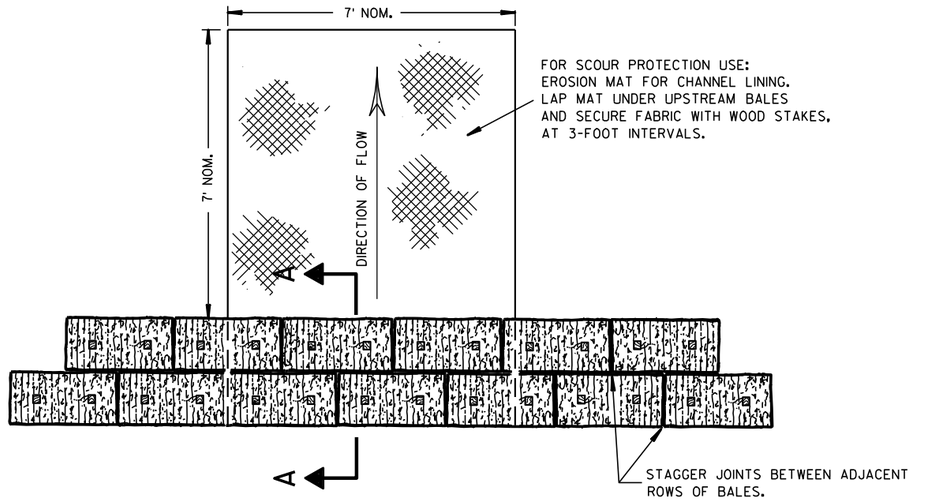
S.D.D. 8 D 15-4a

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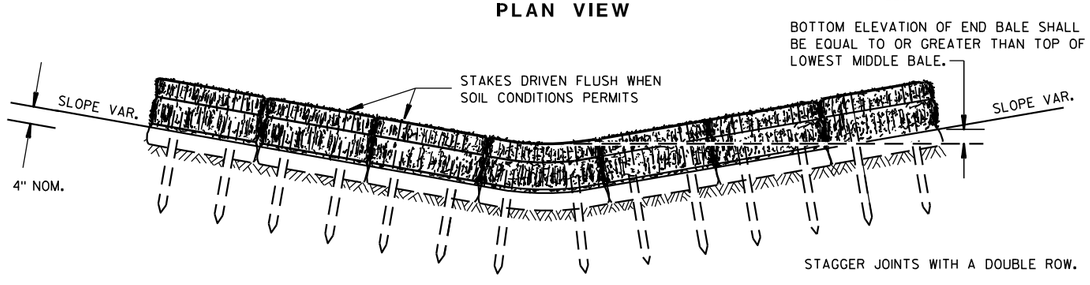
S.D.D. 8 D 15-4a



SECTION A-A



PLAN VIEW



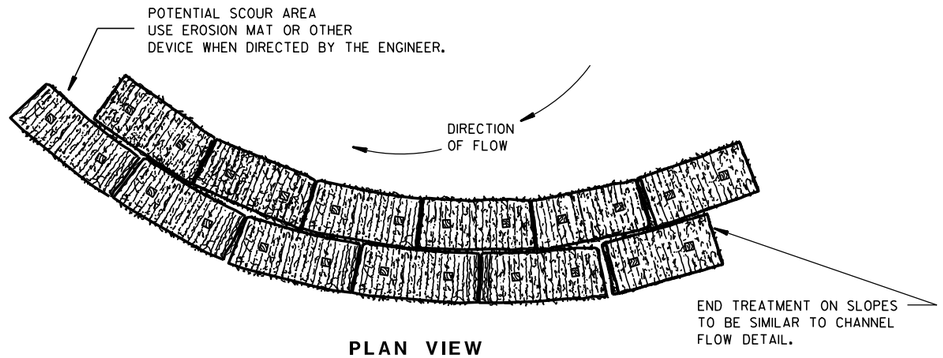
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES (1)

GENERAL NOTES

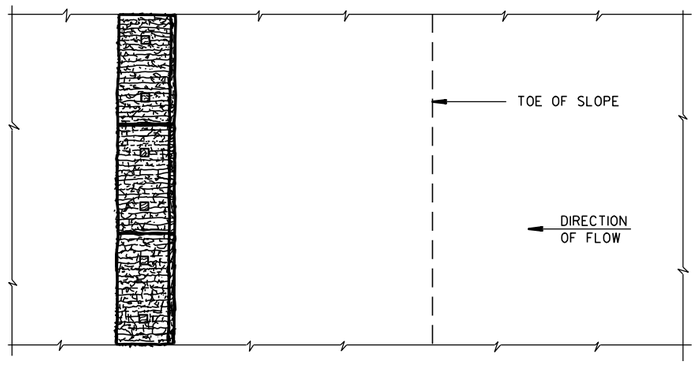
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(1) TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.

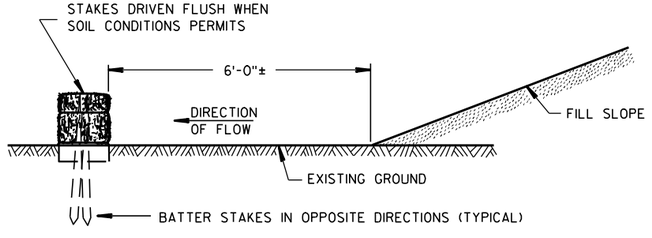


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

6/04/02 — DATE

/S/ Beth Cannestra — CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

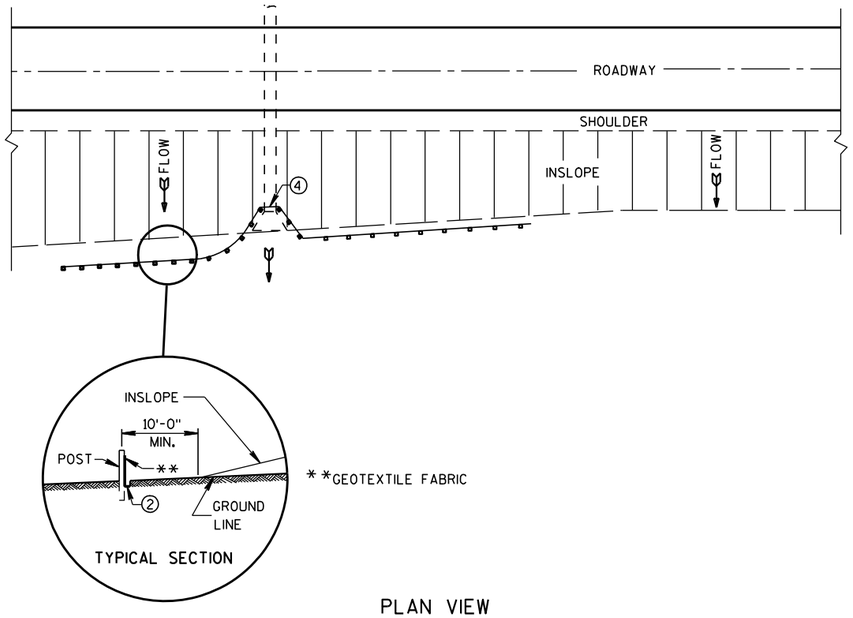
PSE

6

S.D.D. 8 E 8-3

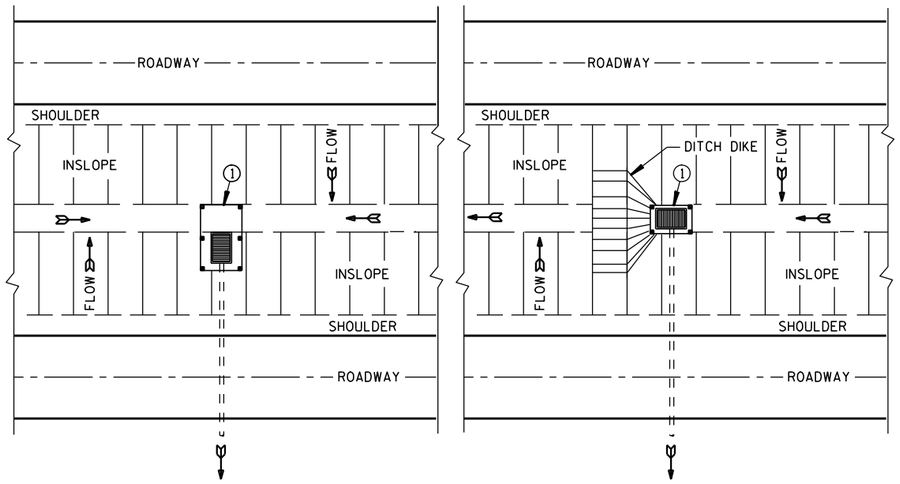
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S.D.D. 8 E 8-3



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



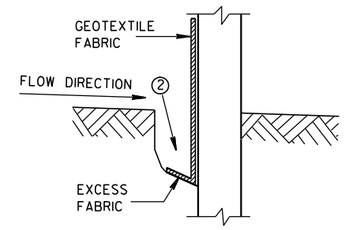
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

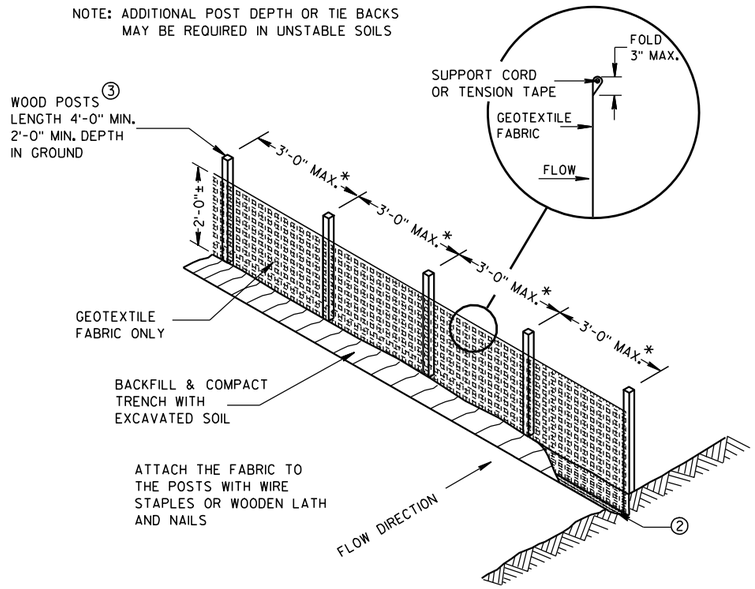
GENERAL NOTES

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

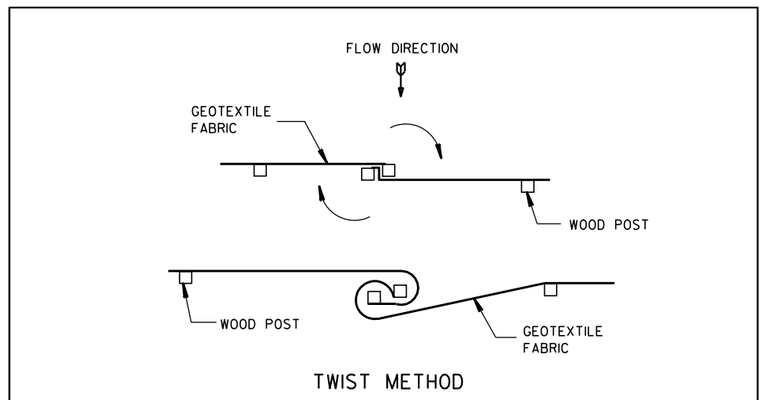
1. HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
2. FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.
4. SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
5. CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



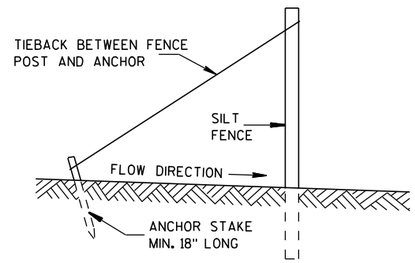
TRENCH DETAIL



SILT FENCE



JOINING TWO LENGTHS OF SILT FENCE 5



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

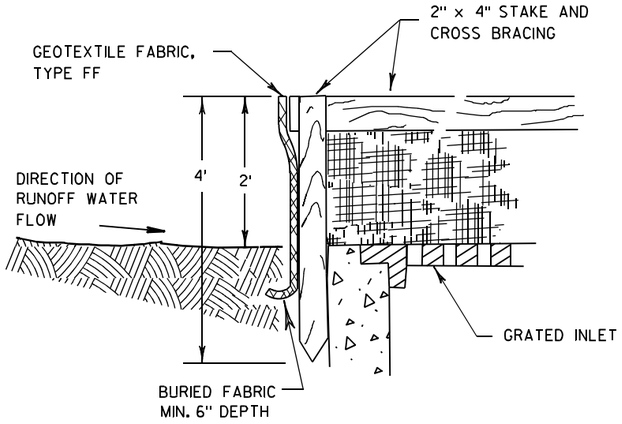
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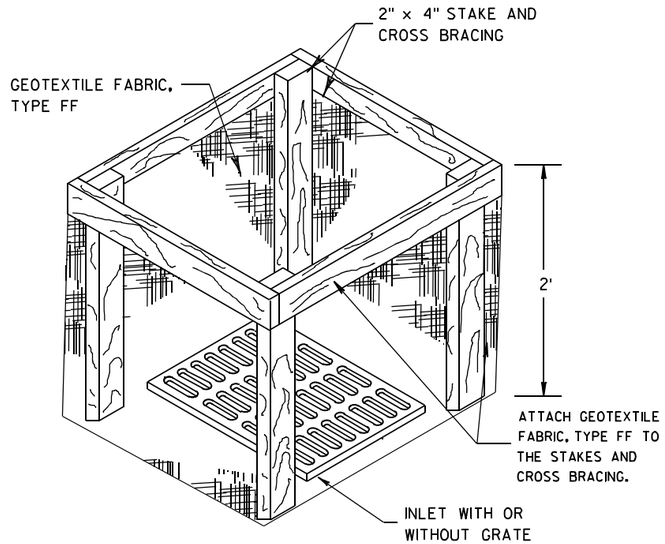
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S.D.D. 8 E 9-6

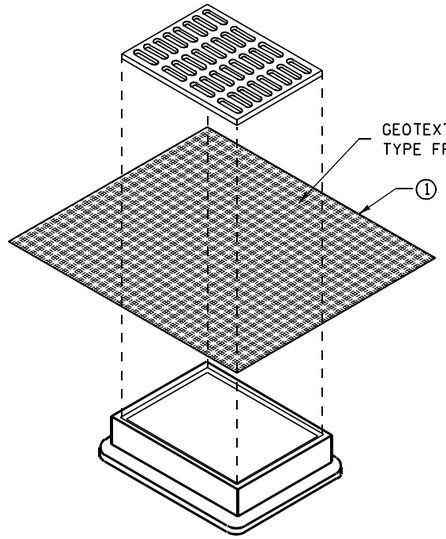
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S.D.D. 8 E 9-6



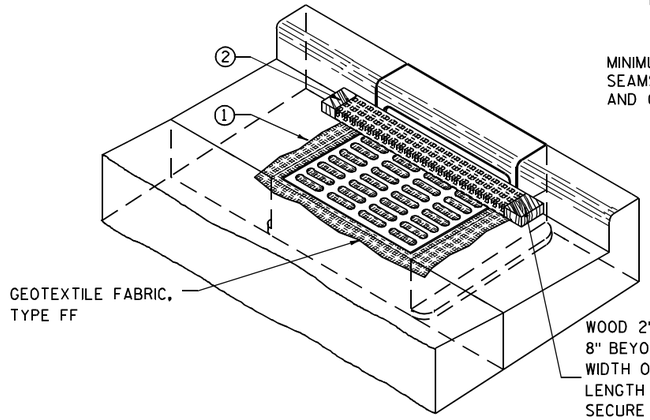


INLET PROTECTION, TYPE A

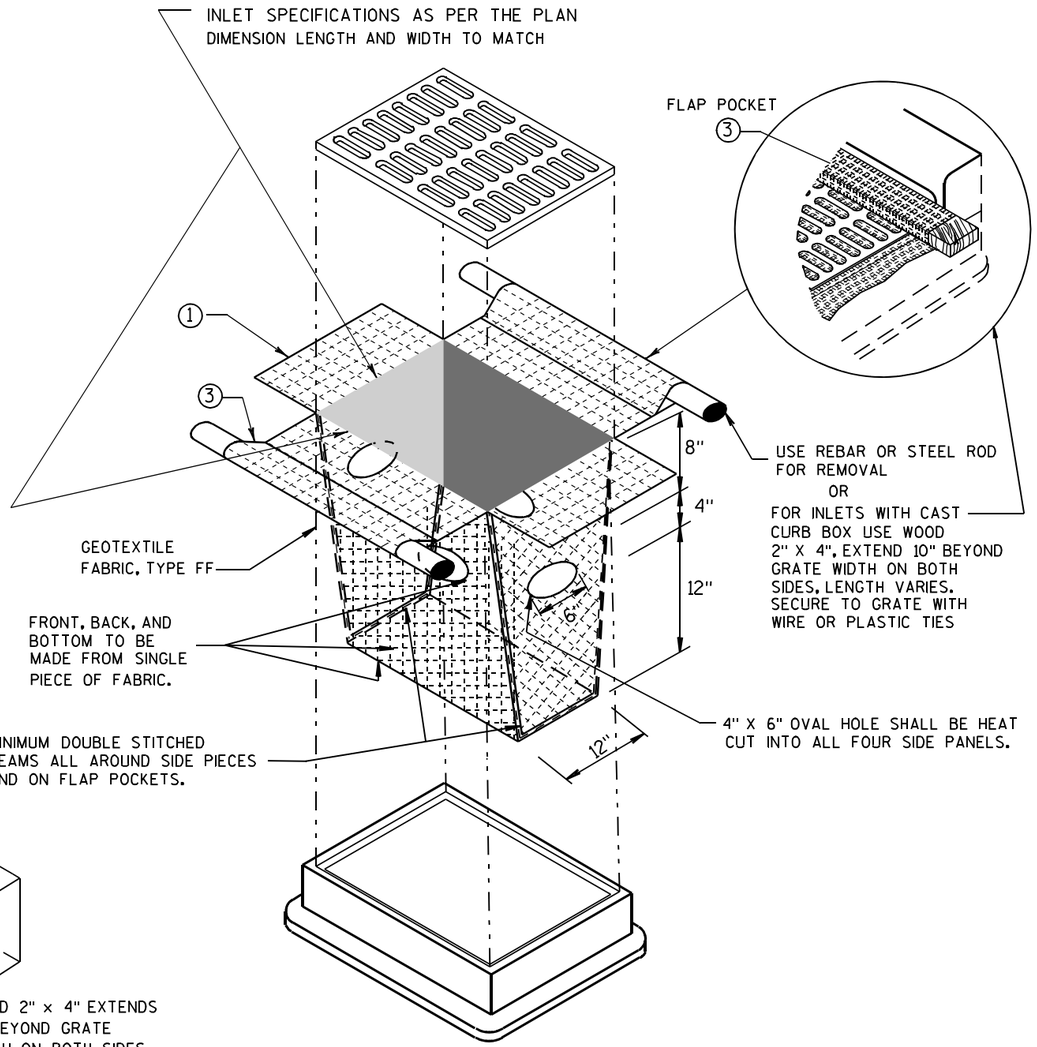


INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE C (WITH CURB BOX)



INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH
OR WITHOUT A CURB BOX AS PER NOTE ②)

GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION
TYPE A, B, C, AND D

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

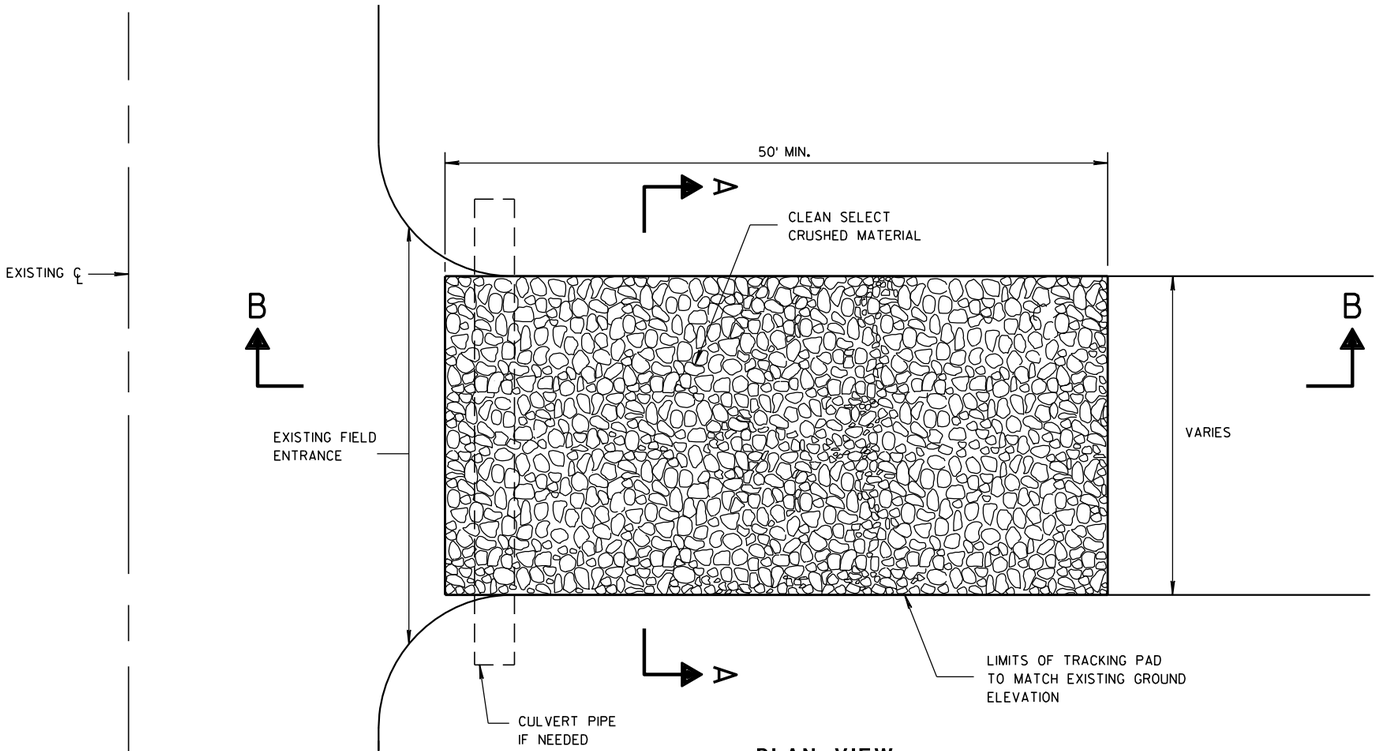
APPROVED
10/16/02
DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

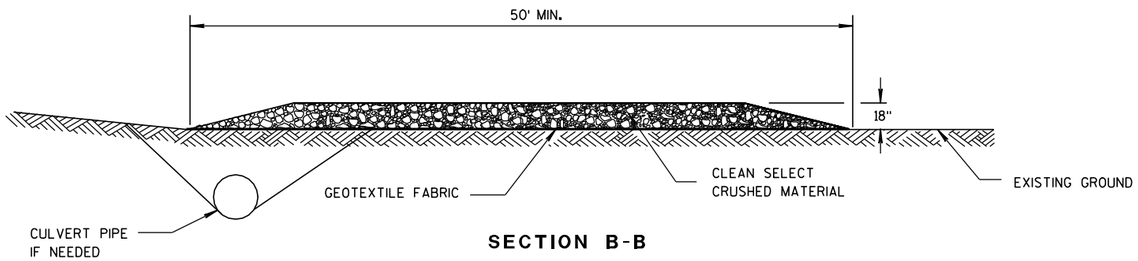
S.D.D. 8 E 10-2

6

S.D.D. 8 E 10-2



PLAN VIEW



SECTION B-B

GENERAL NOTES

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

TRACKING PAD SHALL BE INSPECTED DAILY. DEFICIENT AREAS SHALL BE REPAIRED OR REPLACED IMMEDIATELY.

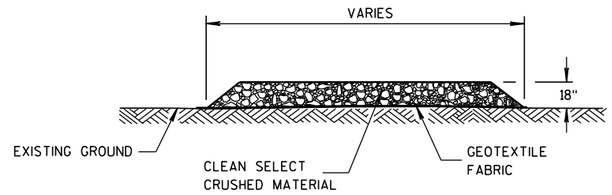
TRACKING PAD TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

TRACKING PAD SHALL BE THE FULL WIDTH OF THE EGRESS POINT.

SURFACE WATER MUST BE PREVENTED FROM PASSING THROUGH THE TRACKING PAD. FLOWS SHALL BE DIVERTED AWAY, AROUND OR CONVEYED UNDER THE TRACKING PAD.

CULVERT PIPE OR OTHER BMP USED TO DIVERT WATER AWAY, AROUND OR UNDER THE TRACKING PAD SHALL BE DESIGNED TO CONVEY THE 2 YEAR - 24 HOUR EVENT.

THE COST OF ADDITIONAL BMP TO DIVERT WATER ARE INCIDENTAL TO THE TRACKING PAD BID ITEM.



SECTION A-A

TRACKING PAD

TRACKING PAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
3/24/2011 — DATE
/S/ Jerry H. Zoda — ROADWAY STANDARDS ENGINEER
280 — FHWA
ENT
PSE

6

S.D.D. 8 E 14-1

METAL APRON ENDWALLS

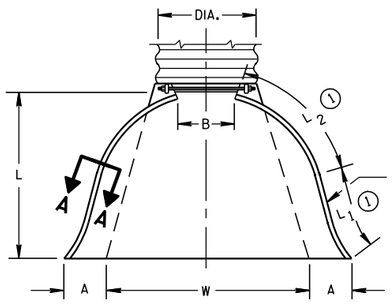
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	36	2 1/2 to 1	1 Pc.
21	.064	.060	9	12	6	36	18	29 5/8	42	2 1/2 to 1	1 Pc.
24	.064	.075	10	13	6	41	18	37 1/4	48	2 1/2 to 1	1 Pc.
30	.079	.075	12	16	8	51	18	52 1/4	60	2 1/2 to 1	1 Pc.
36	.079	.105	14	19	9	60	24	59 3/4	72	2 1/2 to 1	2 Pc.
42	.109	.105	16	22	11	69	24	75 5/8	84	2 1/2 to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 1/4 to 1	3 Pc.
54	.109	.105	18	30	12	84	30	85 1/2	102	2 1/4 to 1	3 Pc.
60	.109×	.105×	18	33	12	87	—	—	114	2 to 1	3 Pc.
66	.109×	.105×	18	36	12	87	—	—	120	2 to 1	3 Pc.
72	.109×	.105×	18	39	12	87	—	—	126	2 to 1	3 Pc.
78	.109×	.105×	18	42	12	87	—	—	132	1 1/2 to 1	3 Pc.
84	.109×	.105×	18	45	12	87	—	—	138	1 1/2 to 1	3 Pc.
90	.109×	.105×	18	37	12	87	—	—	144	1 1/2 to 1	3 Pc.
96	.109×	.105×	18	35	12	87	—	—	150	1 1/2 to 1	3 Pc.

× EXCEPT CENTER PANEL SEE GENERAL NOTES

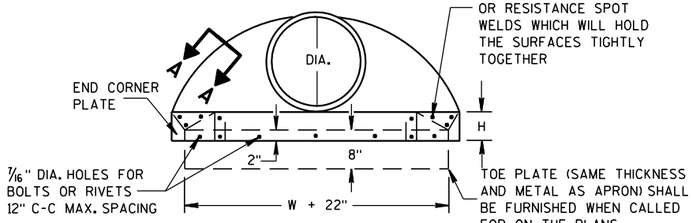
REINFORCED CONCRETE APRON ENDWALLS

PIPE DIA. (IN.)	DIMENSIONS (Inches) T	A	B	C	D	E	G	APPROX. SLOPE
12	2	4	24	48 7/8	72 1/8	24	2	3 to 1
15	2 1/4	6	27	46	73	30	2 1/4	3 to 1
18	2 1/2	9	27	46	73	36	2 1/2	3 to 1
21	2 3/4	9	36	37 1/2	73 1/2	42	2 3/4	3 to 1
24	3	9 1/2	43 1/2	30	73 1/2	48	3	3 to 1
27	3 1/4	10 1/2	49 1/2	24	73 1/2	54	3 1/4	3 to 1
30	3 1/2	12	54	19 3/4	73 1/2	60	3 1/2	3 to 1
36	4	15	63	34 3/4	97 3/4	72	4	3 to 1
42	4 1/2	21	63	35	98	78	4 1/2	3 to 1
48	5	24	72	26	98	84	5	3 to 1
54	5 1/2	27	65	* 33 1/4 - ** 35	* 98 1/4 - ** 100	90	5 1/2	2 5/8 to 1
60	6	* 30 - ** 35	60	39	99	96	5	2 to 1
66	6 1/2	* 24 - ** 30	* 72 - ** 78	* 21 - ** 27	99	102	5 1/2	2 to 1
72	7	* 24 - ** 36	78	21	99	108	6	2 to 1
78	7 1/2	* 24 - ** 36	78	21	99	114	6 1/2	2 to 1
84	8	36	90 1/2	21	111 1/2	120	6 1/2	1 1/2 to 1
90	8 1/2	41	87 1/2	24	111 1/2	132	6 1/2	1 1/2 to 1

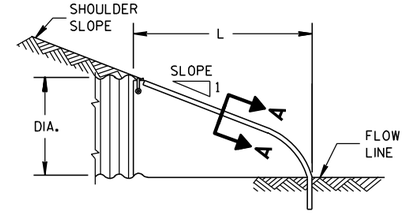
*MINIMUM
**MAXIMUM



PLAN VIEW

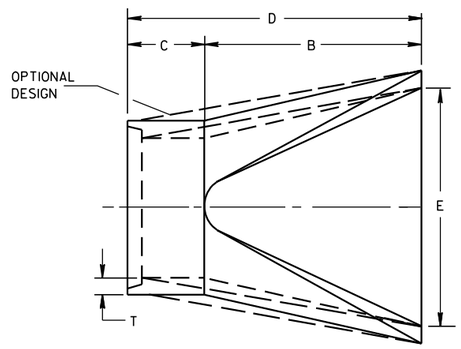


END VIEW

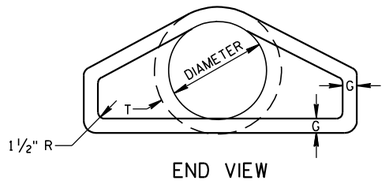


SIDE ELEVATION

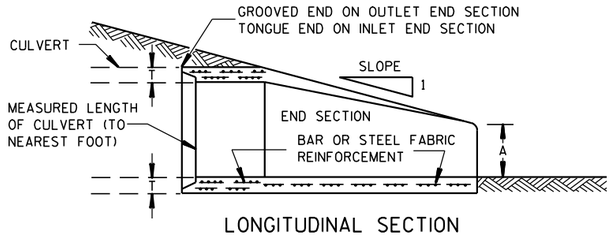
METAL ENDWALLS



PLAN

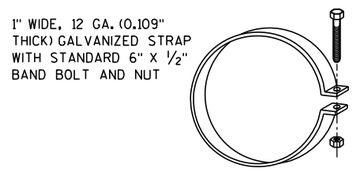


END VIEW



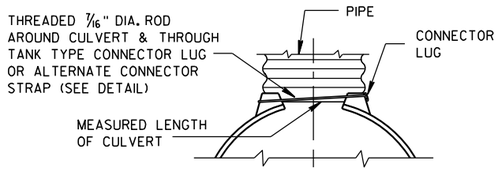
LONGITUDINAL SECTION

CONCRETE ENDWALLS

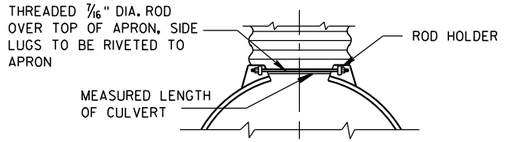


ALTERNATE FOR TYPE 1 CONNECTION

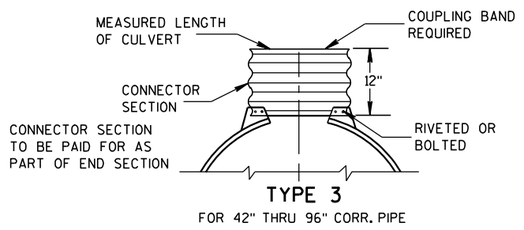
END SECTION CONNECTOR STRAP



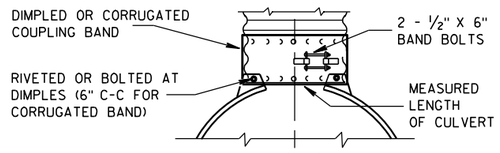
TYPE 1
FOR 12" THRU 24" CORR. PIPE



TYPE 2
FOR 30" THRU 96" CORR. PIPE



TYPE 3
FOR 42" THRU 96" CORR. PIPE



TYPE 5
ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

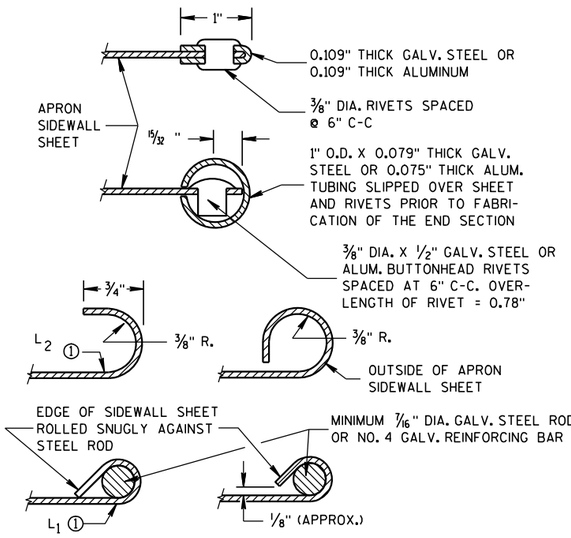
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5 AS APPLICABLE.

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

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

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR CULVERT PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/30/94 DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

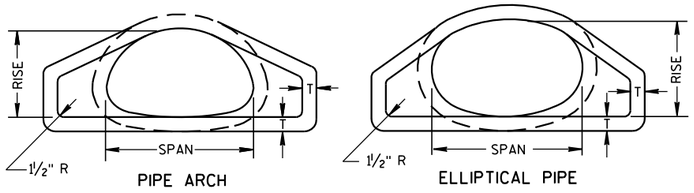
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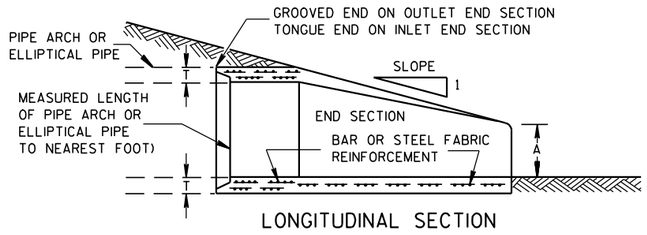
S.D.D. 8 F 1-11

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S.D.D. 8 F 1-11



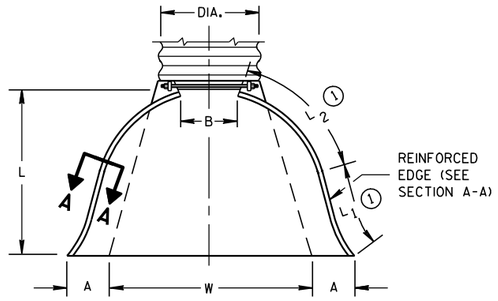
END VIEW



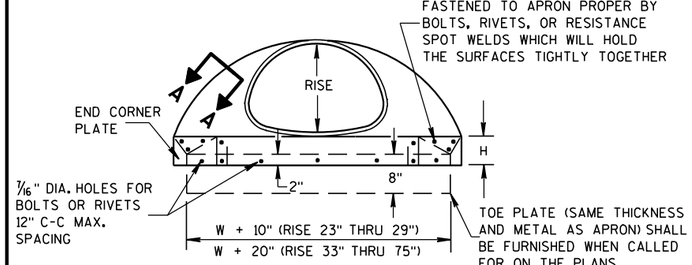
LONGITUDINAL SECTION

PLAN VIEW

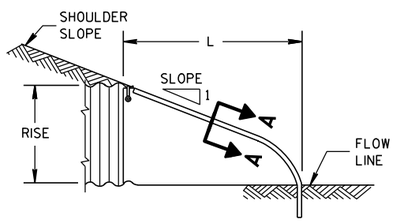
CONCRETE ENDWALLS



PLAN VIEW

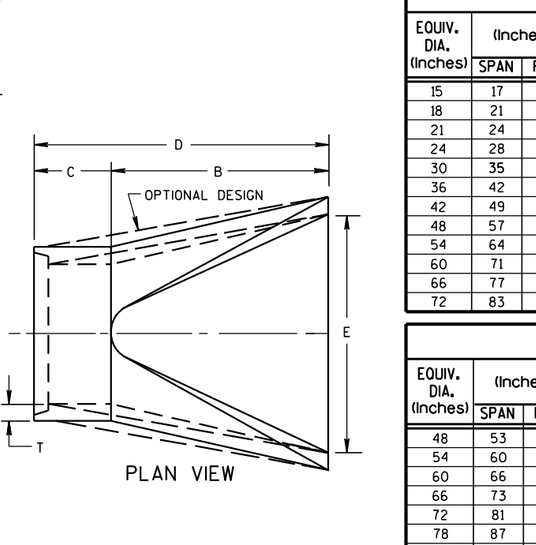


END VIEW



SIDE ELEVATION

METAL ENDWALLS



SECTION A-A

2- 2/3" X 1/2" CORRUGATIONS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
15	17	13	.064	.060	7	9	6	19	14	16	30	2½ to 1	1 Pc.
18	21	15	.064	.060	7	10	6	23	14	19⅜	36	2½ to 1	1 Pc.
21	24	18	.064	.060	8	12	6	28	18	21¾	42	2½ to 1	1 Pc.
24	28	20	.064	.060	9	14	6	32	18	27½	48	2½ to 1	1 Pc.
30	35	24	.079	.075	10	16	6	39	18	37⅝	60	2½ to 1	1 Pc.
36	42	29	.079	.075	12	18	8	46	24	45⅜	75	2½ to 1	1 Pc.
42	49	33	.109	.105	13	21	9	53	24	54¾	85	2½ to 1	2 Pc.
48	57	38	.109	.105	18	26	12	63	24	68	90	2½ to 1	3 Pc.
54	64	43	.109	.105	18	30	12	70	24	72¾	102	2¼ to 1	3 Pc.
60	71	47	.109*	.105*	18	33	12	77	30	82¼	114	2¼ to 1	3 Pc.
66	77	52	.109*	.105*	18	36	12	77	—	—	126	2 to 1	3 Pc.
72	83	57	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.

3" X 1" CORRUGATIONS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
48	53	41	.109	.105	18	26	12	63	24	72¾	90	2½ to 1	2 Pc.
54	60	46	.109	.105	18	30	12	70	30	82¼	102	2 to 1	2 Pc.
60	66	51	.109*	.105*	18	33	12	77	—	—	114	1½ to 1	3 Pc.
66	73	55	.109*	.105*	18	36	12	77	—	—	126	1½ to 1	3 Pc.
72	81	59	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.
78	87	63	.109*	.105*	22	38	12	77	—	—	148	1½ to 1	3 Pc.
84	95	67	.109*	.105*	22	34	12	77	—	—	162	1½ to 1	3 Pc.
90	103	71	.109*	.105*	22	38	12	77	—	—	174	1½ to 1	3 Pc.
96	112	75	.109*	.105*	24	40	12	77	—	—	174	1½ to 1	3 Pc.

NOTE: ALL SPLICES TO BE LAP RIVETED OR BOLTED.

* EXCEPT CENTER PANEL SEE GENERAL NOTES

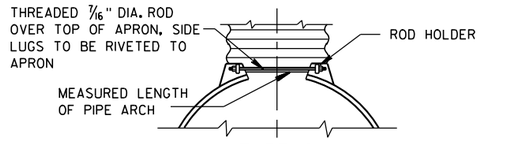
REINFORCED CONCRETE PIPE ARCH

EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	29	18	3	8½	39	33	72	48	3 to 1
30	36	22	3½	9½	50	46	96	60	3 to 1
36	44	27	4	11⅛	60	36	96	72	3 to 1
42	51	31	4½	15 13/16	60	36	96	78	3 to 1
48	58	36	5	21	60	36	96	84	3 to 1
54	65	40	5½	25½	60	36	96	90	3 to 1
60	73	45	6	31	60	36	96	96	3 to 1
72	88	54	7	31	60	39	99	120	2 to 1
84	102	62	8	28½	83	19	102	144	2 to 1

REINFORCED CONCRETE ELLIPTICAL PIPE

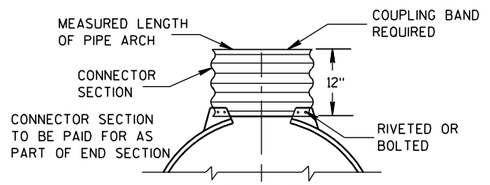
EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	30	19	3¼	8½	39	33	72	48	3 to 1
30	38	24	3¾	9½	54	18	72	60	3 to 1
36	45	29	4½	11⅛	60	24	84	72	2½ to 1
42	53	34	5	15¾	60	36	96	78	2½ to 1
48	60	38	5½	21	60	36	96	84	2½ to 1
54	68	43	6	25½	60	36	96	90	2½ to 1
60	76	48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

**NOMINAL SIZE



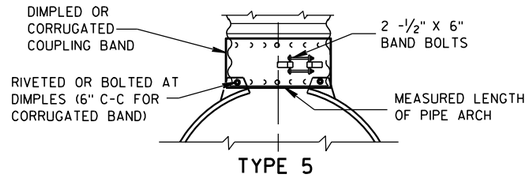
TYPE 2

FOR 17" X 13" THRU 112" X 75" PIPE ARCH



TYPE 3

FOR 64" X 43" THRU 112" X 75" PIPE ARCH



TYPE 5

ALTERNATE FOR:

ALL SIZES CORRUGATED PIPE ARCHES

NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL, AND CORRUGATED BAND FITS INSIDE ENDWALL.

CONNECTION DETAILS

GENERAL NOTES

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

CONCRETE APRON ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM APRON ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE ARCH PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 77" X 52" THROUGH 112" X 75" APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

① FOR PIPE ARCH SIZES UP TO 73" X 55" A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

11/30/94 — DATE

/S/ Rory L. Rhinesmith — CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

PSE

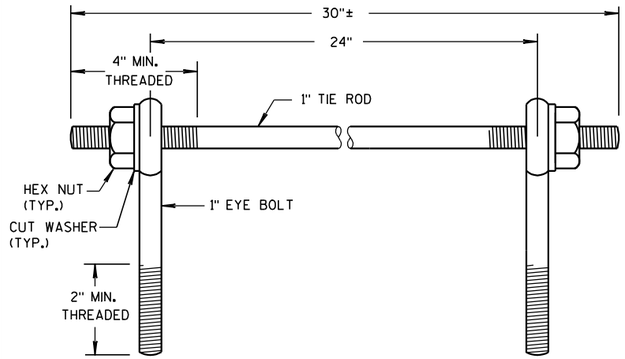
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S.D.D. 8 F 2-1

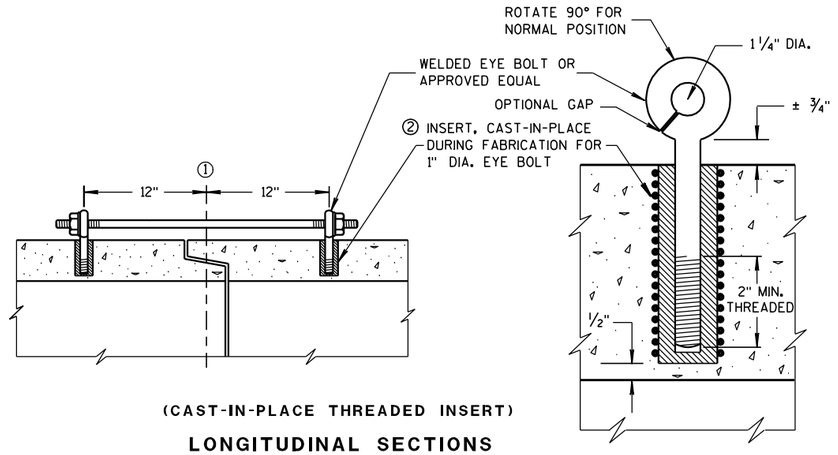
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EYE BOLTS AND TIE ROD



(CAST-IN-PLACE THREADED INSERT)

LONGITUDINAL SECTIONS

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

GENERAL NOTES

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

CONCRETE CULVERT AND STORM SEWER PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED IN THE STANDARD SPECIFICATIONS AND THE PLAN. THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR DRAINAGE STRUCTURES. ONLY ALTERNATE 1 AND 3 MAY BE USED FOR CATTLE PASSES, UNLESS OTHERWISE STATED IN THE CONTRACT. THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE THE PIPE BY THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO THE PIPE AND APRON ENDWALLS IF REQUIRED.

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

JOINT TIES TO BE HOT-DIP GALVANIZED PER ASTM A 153.

① ℄ OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.

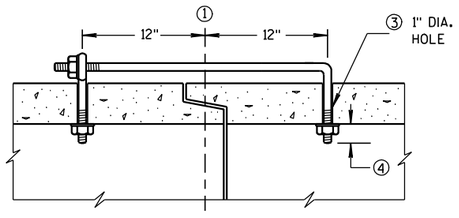
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

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

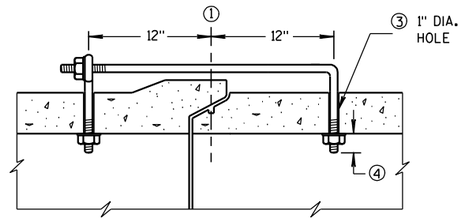
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

⑤ OPENING TO BE ROD DIAMETER PLUS 1 INCH.

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



(TONGUE & GROOVE PIPE)

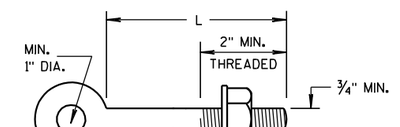


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

EYE BOLT DIMENSION TABLE

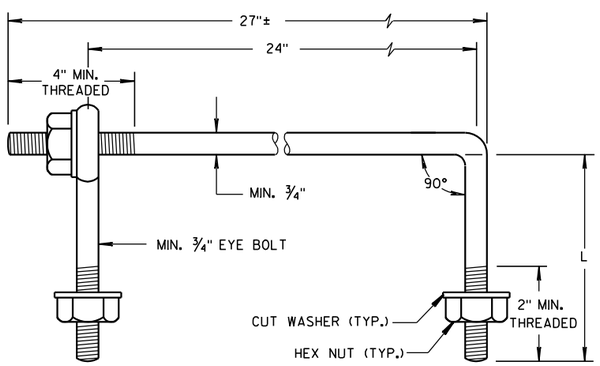
PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	



NOTE:

EYE BOLT

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



EYE BOLT AND TIE ROD

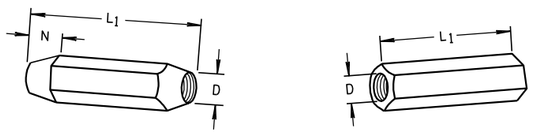
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

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

ADJUSTABLE TIE ROD TABLE

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

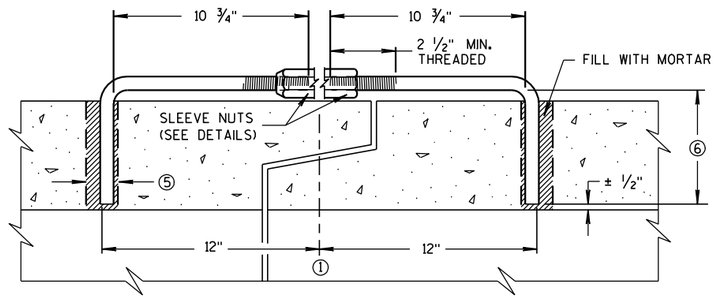
DIMENSIONS SHOWN ARE IN INCHES



TAPERED PLAIN

RIGHT AND LEFT THREADS

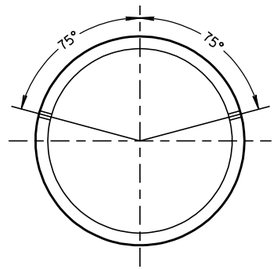
SLEEVE NUTS



LONGITUDINAL SECTION

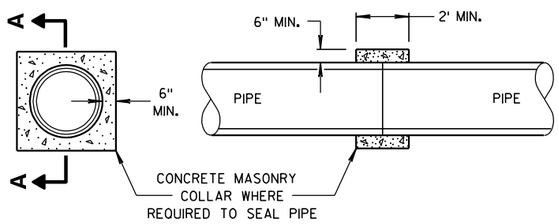
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



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

TRANSVERSE SECTION



SECTION A-A

CONCRETE COLLAR DETAIL

JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

PSE

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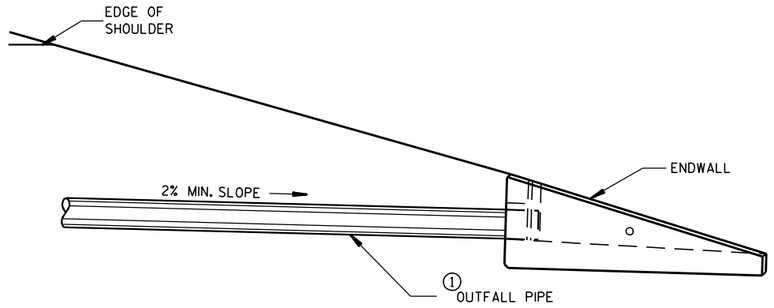
S.D.D. 8 F 4-7

6

S.D.D. 8 F 4-7

DIMENSIONS IN INCHES											
PIPE DIA.	A	B	C	D	E	F	G	H	J	L	Z
**4	6	12	5 1/4	9	8	32	36	11	2 3/8	6 1/2	4
6	8	14	7 1/4	11	10	42	44	13	3 5/8	8 1/2	6

**APRON ENDWALL FOR 6 INCH DIAMETER PIPE MAY BE SUBSTITUTED FOR THIS SIZE PROVIDED THE HOLE IN THE HEADWALL IS SIZED AND LOCATED TO CONFORM TO THE 4 INCH DIAMETER PIPE DIMENSIONS (C & J)



INSTALLATION DETAIL

GENERAL NOTES

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

ALTERNATIVE DESIGNS WHICH PROVIDE EQUIVALENT CAPACITY AND STRENGTH MAY BE USED WHEN APPROVED BY THE ENGINEER. ENDWALL MAY BE EITHER PRECAST OR CAST-IN-PLACE CONCRETE.

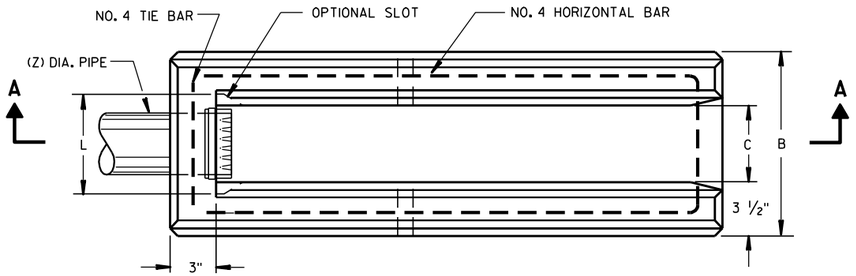
THE UNDERDRAIN PIPE SHALL BE FULLY INSERTED AND SEALED INTO THE ENDWALL WITH CEMENT MORTAR PRIOR TO BACKFILLING AROUND THE STRUCTURE.

THE UPPERMOST POINT OF THE ENDWALL SHALL BE PLACED FLUSH WITH THE ROADWAY SLOPE. ADJACENT EMBANKMENT SLOPES SHALL BE SHAPED TO FIT THE SIDES AND TOE OF THE ENDWALL. EXACT PLACEMENT OF THE OUTFALL PIPE AND ENDWALL SHALL BE DETERMINED BY THE ENGINEER TO MATCH THE ELEVATIONS AND FLOW DIRECTION OF THE ROADSIDE DITCH.

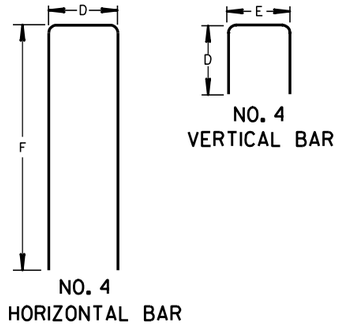
① THE OUTFALL PIPE UNDERDRAIN AND FITTINGS SHALL CONFORM TO THE REQUIREMENTS OF THE SPECIFICATION FOR POLY (VINYL CHORIDE) (PVC) PLASTIC DRAIN, WASTE AND VENT PIPE AND FITTINGS, ASTM DESIGNATION: D 2665, SCHEDULE 40 PVC OR THE STANDARD SPECIFICATION FOR TYPE PSM POLY (VINYL CHORIDE) (PVC) SEWER PIPE AND FITTINGS, ASTM DESIGNATION: D 3034, TYPE PSM SDR 23.5 PVC SEWER PIPE, ALL JOINTS SHALL BE SOLVENT WELDED.

THE OUTFALL PIPE INCLUDING ALL FITTINGS AND THE RODENT SHIELD SHALL BE MEASURED AND PAID FOR AS PIPE UNDERDRAIN UNPERFORATED.

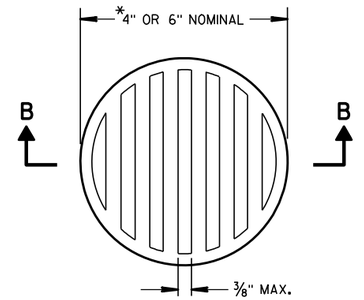
② THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE OUTFALL PIPE. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.

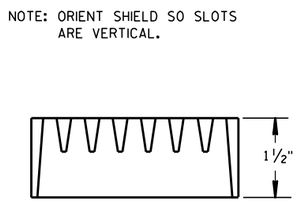


PLAN VIEW



BAR STEEL REINFORCEMENT DETAILS

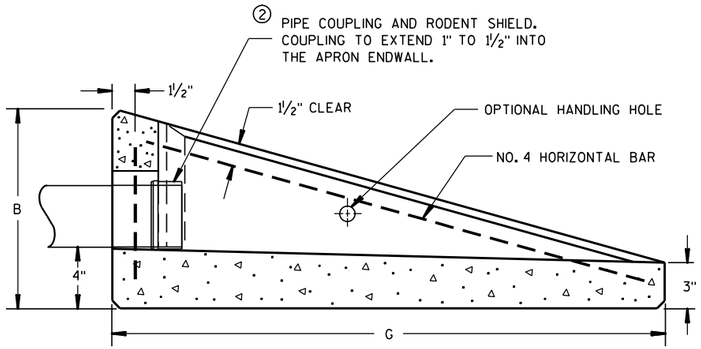




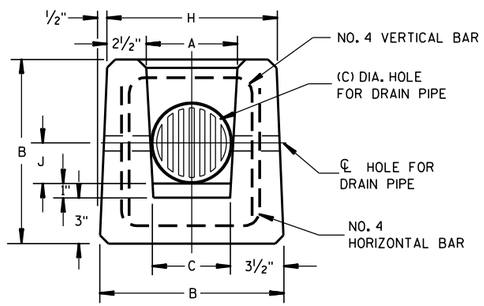
SECTION B-B

② RODENT SHIELD

*NOTE: DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING.



SECTION A-A



END VIEW

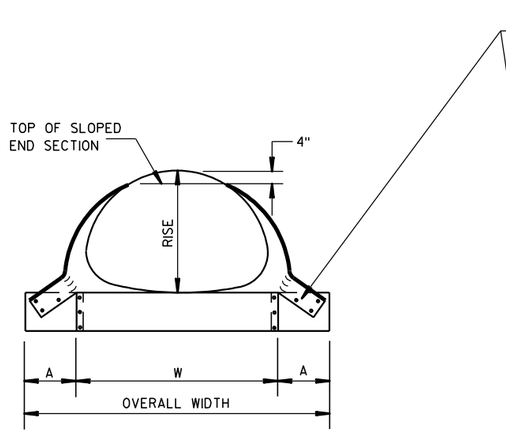
CONCRETE APRON ENDWALL FOR UNDERDRAIN

REINFORCED CONCRETE APRON ENDWALL FOR PIPE UNDERDRAIN

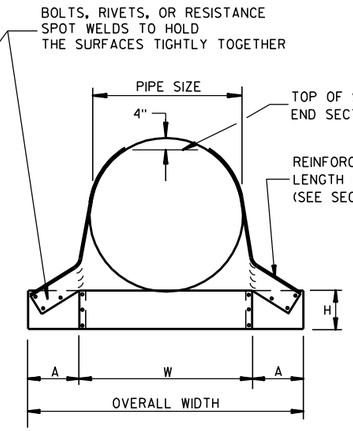
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
3/10/98 DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

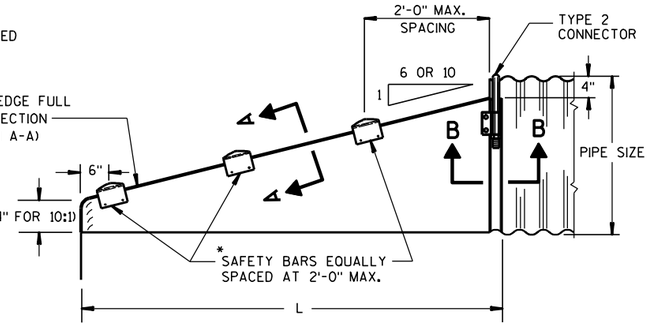
PSE



FRONT VIEW



FRONT VIEW



SIDE VIEW

GENERAL NOTES

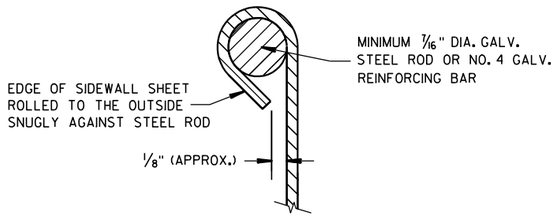
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

SLOPED END SECTIONS SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS, SECTION 521 FOR STEEL APRON ENDWALLS.

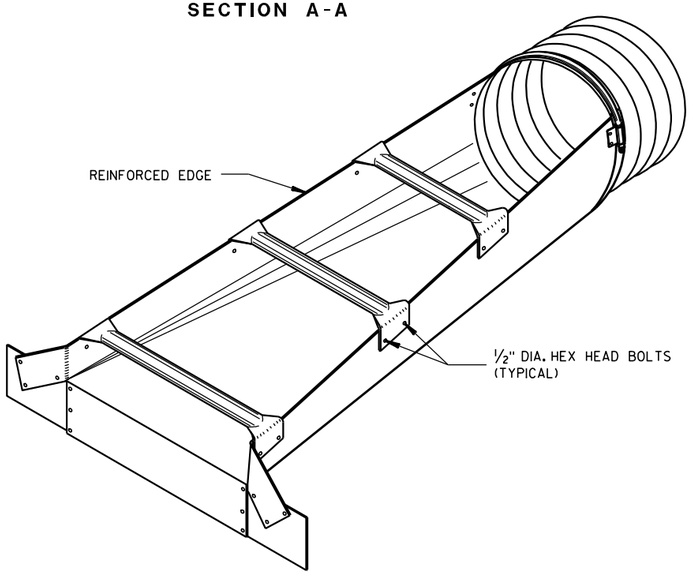
SAFETY BARS SHALL BE FABRICATED FROM GALVANIZED STEEL PIPE MEETING THE REQUIREMENTS OF ASTM A-53, GRADE B, SCHEDULE 40 OR APPROVED EQUAL.

STEEL APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS

PIPE DIA. (IN.)	MIN. THICK. (Inches)	DIMENSIONS (Inches)				L DIMENSIONS			
		A	H	W	OVERALL WIDTH	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES
15	.064	8	6	21	37	6:1	30	10:1	70
18	.064	8	6	24	40	6:1	48	10:1	100
21	.064	8	6	27	43	6:1	66	10:1	130
24	.064	8	6	30	46	6:1	84	10:1	160
30	.109	12	9	36	60	6:1	120	10:1	220
36	.109	12	9	42	66	6:1	156	10:1	280
42	.109	16	12	48	80	6:1	192	——	——
48	.109	16	12	54	86	6:1	228	——	——
54	.109	16	12	60	92	6:1	264	——	——
60	.109	16	12	66	98	6:1	300	——	——

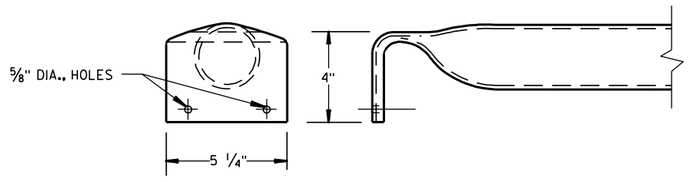


SECTION A-A



ISOMETRIC VIEW

*NOTE:
THREE SAFETY BARS ARE SHOWN. ACTUAL NUMBER OF BARS REQUIRED AT A 2'-0" C-C MAX. SPACING WILL VARY DEPENDING ON THE LENGTH OF THE END SECTION.

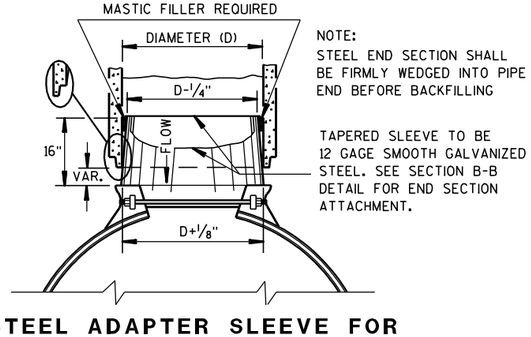


DETAIL OF SAFETY BAR

STEEL APRON ENDWALLS FOR PIPE ARCH SLOPED SIDE DRAINS

EQUIV. DIA. (Inches)	(Inches)		MIN. THICK. (Inches) ①	DIMENSIONS (Inches)				L DIMENSIONS			
	SPAN	RISE		A	H	W	OVERALL WIDTH	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES
15	17	13	.064 *	7	6	30	44	6:1	30	10:1 ②	70
18	21	15	.064 *	8	6	27	43	6:1	30	10:1	70
21	24	18	.064 *	8	6	30	46	6:1	48	10:1	100
24	28	20	.064 *	8	6	34	50	6:1	60	10:1	120
30	35	24	.079 *	12	9	41	65	6:1	84	10:1	160
36	42	29	.109 *	12	9	48	72	6:1	114	10:1	210
42	49	33	.109	16	12	55	87	6:1	138	——	——
48	57	38	.109	16	12	63	95	6:1	168	——	——
54	64	43	.109	16	12	70	102	6:1	198	——	——

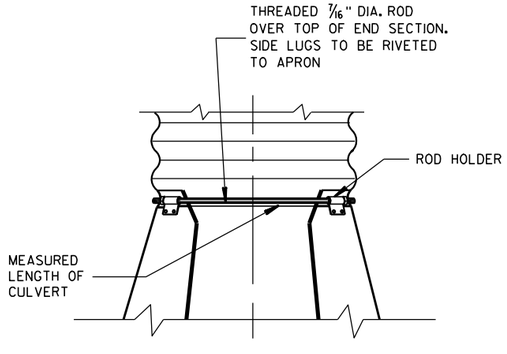
① * MINIMUM THICKNESS OF ALL 10:1 SLOPED SIDE DRAINS IS 0.109".
② ACTUAL SLOPE GREATER THAN 10:1.



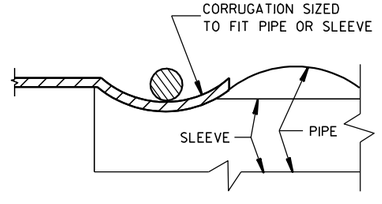
NOTE:
STEEL END SECTION SHALL BE FIRMLY WEDGED INTO PIPE END BEFORE BACKFILLING

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

STEEL ADAPTER SLEEVE FOR CONCRETE PIPE



TYPE 2 CONNECTION DETAIL



SECTION B-B

STEEL APRON ENDWALLS FOR CULVERT PIPE AND PIPE ARCH SLOPED SIDE DRAINS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/5/2012 DATE
/S/ Jerry H. [illegible] ENGINEER
FHWA

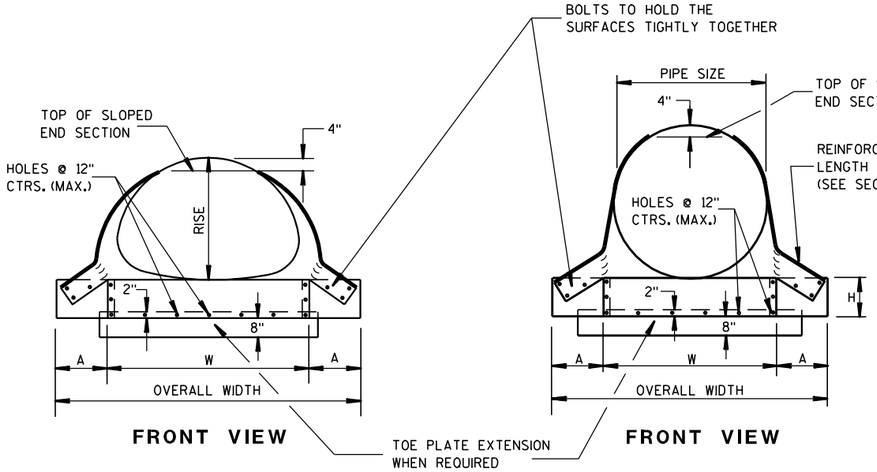
ROADWAY STANDARDS | 285 | PSE

6

S.D.D. 8 F 7-4

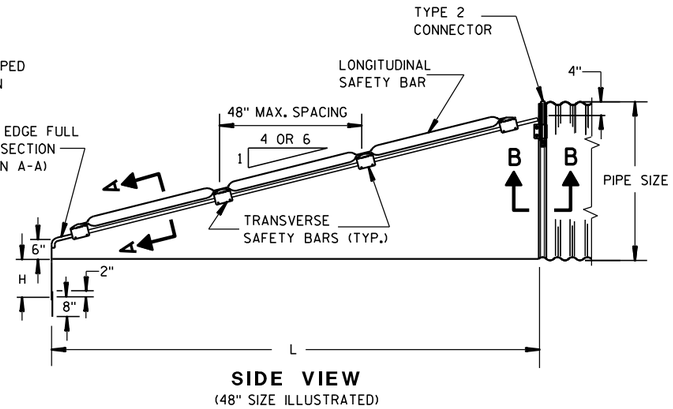
6

S.D.D. 8 F 7-4



FRONT VIEW

FRONT VIEW



SIDE VIEW
(48" SIZE ILLUSTRATED)

GENERAL NOTES

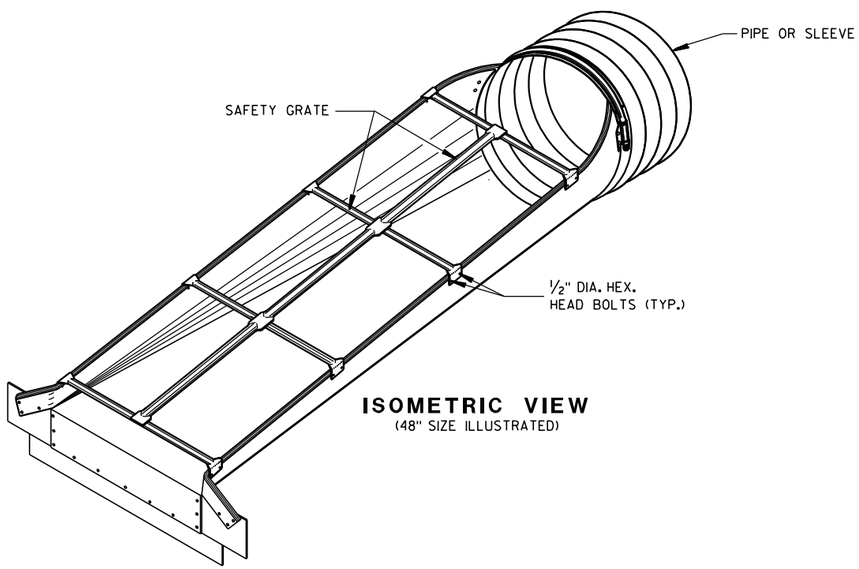
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

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.

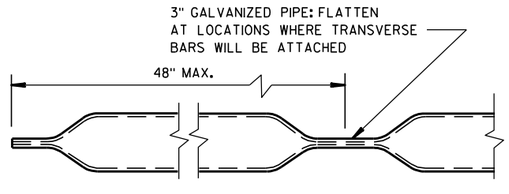
SLOPED STEEL ENDWALLS LOCATED AT THE ENDS OF CONCRETE CULVERT PIPE SHALL BE FURNISHED WITH STEEL ADAPTER SLEEVES.

STEEL APRON 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	SLOPE	LENGTH INCHES
36	.109	12	12	9	42	66	4:1	104	6:1	156
42	.109	12	16	12	48	80	4:1	128	6:1	192
48	.109	12	16	12	54	86	4:1	152	6:1	228
54	.109	12	16	12	60	92	4:1	176	6:1	264
60	.109	12	16	12	66	98	4:1	200	6:1	300



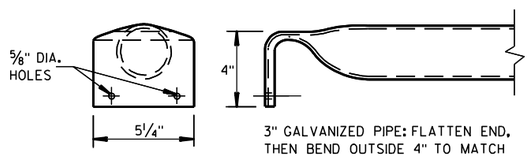
ISOMETRIC VIEW
(48" SIZE ILLUSTRATED)



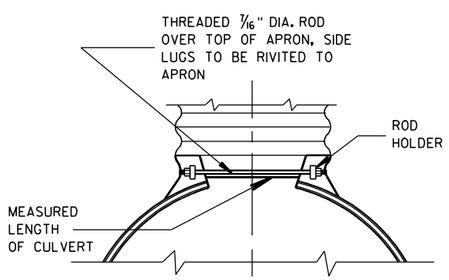
LONGITUDINAL SAFETY BAR

STEEL APRON ENDWALLS FOR PIPE ARCH SLOPED CROSS DRAINS

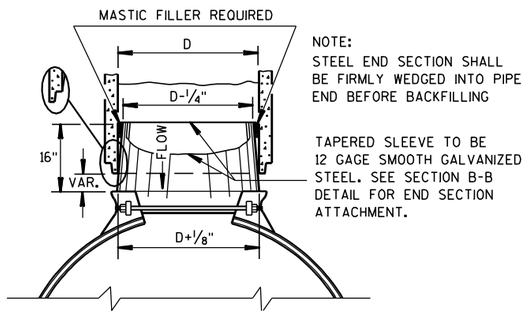
EQUIV. DIA. (IN.)	INCHES		MIN. THICK.		DIMENSIONS (Inches)				L DIMENSIONS			
	SPAN	RISE	IN.	GAGE	A	H	W	OVERALL WIDTH	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES
30	35	24	.079	14	12	9	41	65	4:1	56	6:1	84
36	42	29	.109	12	12	9	48	72	4:1	76	6:1	114
42	49	33	.109	12	16	12	55	87	4:1	92	6:1	138
48	57	38	.109	12	16	12	63	95	4:1	112	6:1	168
54	64	43	.109	12	16	12	70	102	4:1	132	6:1	198
60	71	47	.109	12	16	12	77	109	4:1	148	6:1	222



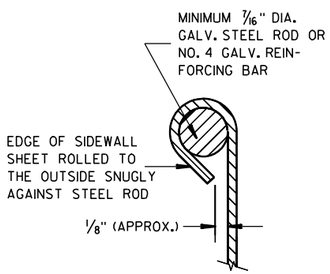
TRANSVERSE SAFETY BAR



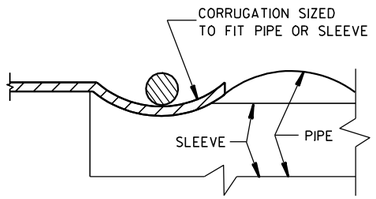
TYPE 2 CONNECTOR DETAIL



STEEL ADAPTER SLEEVE FOR CONCRETE PIPE



SECTION A-A

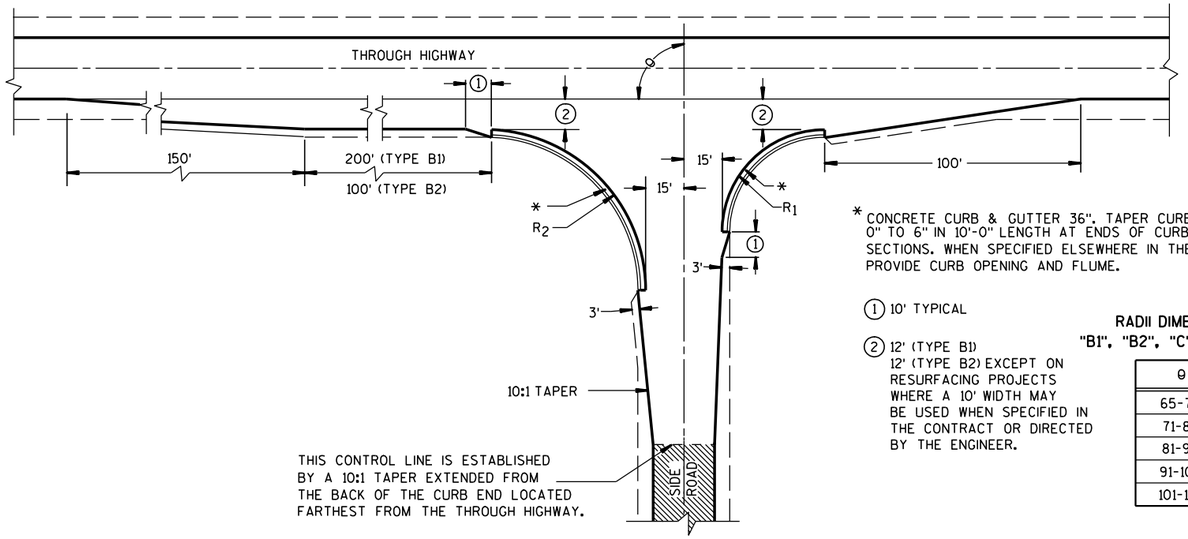


SECTION B-B

STEEL APRON ENDWALLS FOR CULVERT PIPE AND PIPE ARCH SLOPED CROSS DRAINS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
286
FHWA



TYPE "B1" AND "B2"

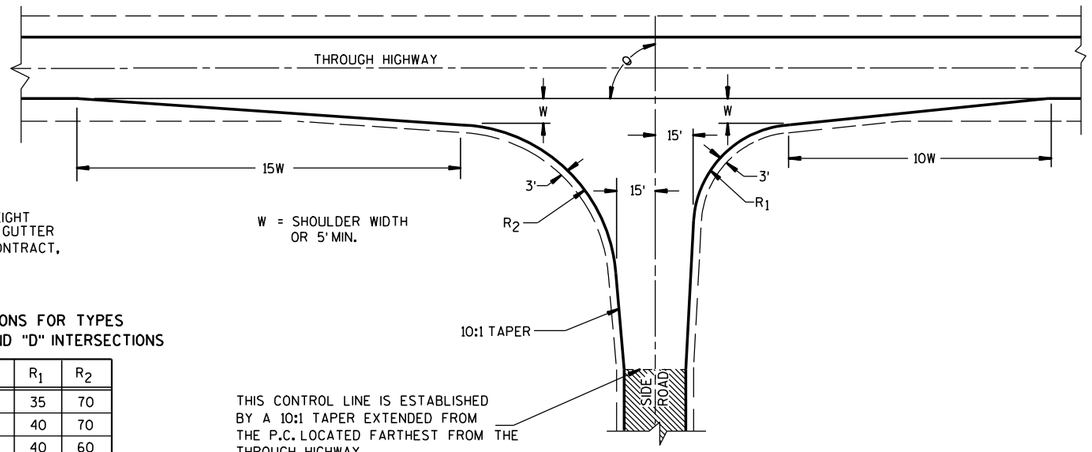
* CONCRETE CURB & GUTTER 36". TAPER CURB HEIGHT 0" TO 6" IN 10'-0" LENGTH AT ENDS OF CURB & GUTTER SECTIONS. WHEN SPECIFIED ELSEWHERE IN THE CONTRACT, PROVIDE CURB OPENING AND FLUME.

(1) 10' TYPICAL

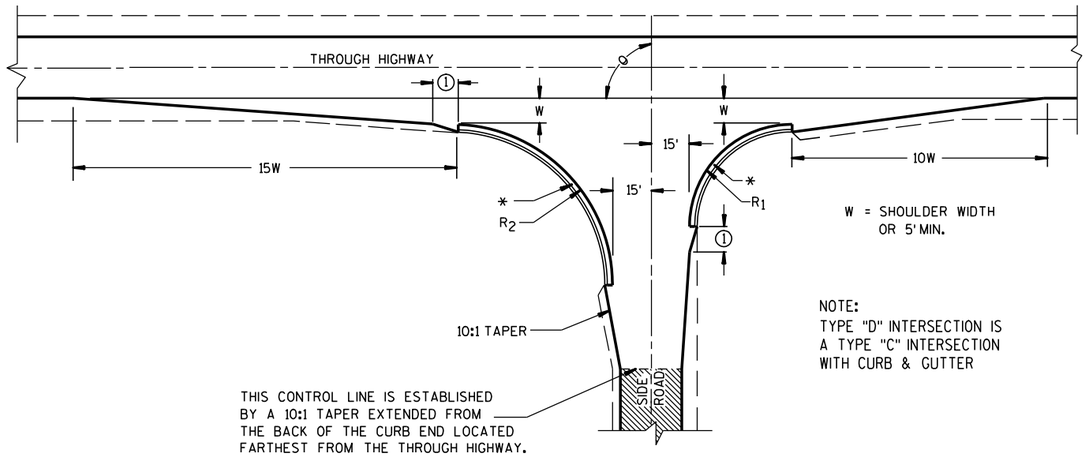
(2) 12' (TYPE B1)
12' (TYPE B2) EXCEPT ON RESURFACING PROJECTS WHERE A 10' WIDTH MAY BE USED WHEN SPECIFIED IN THE CONTRACT OR DIRECTED BY THE ENGINEER.

RADII DIMENSIONS FOR TYPES "B1", "B2", "C" AND "D" INTERSECTIONS

θ	R_1	R_2
65-70	35	70
71-80	40	70
81-90	40	60
91-100	50	55
101-110	60	45



TYPE "C"



TYPE "D"

NOTE:
TYPE "D" INTERSECTION IS A TYPE "C" INTERSECTION WITH CURB & GUTTER

GENERAL NOTES

DESIGNS MAY BE USED INTERCHANGEABLY IN COMBINATION OR SEPARATELY FOR ANY ONE COMPLETE INTERSECTION DEPENDING UPON INTERSECTION ANGLE AND SURFACING OF EACH APPROACH ROADWAY.

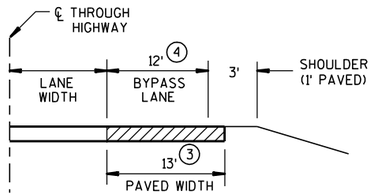
SIDE ROAD SURFACING NOTE

WHEN THE SIDE ROAD IS NOT PRESENTLY PAVED, PAVEMENT SHALL BE PLACED TO THE LIMITS SHOWN UNLESS OTHERWISE PROVIDED IN THE CONTRACT. WHERE THE CONSTRUCTION LIMITS ARE BEYOND THE PAVING LIMITS, CRUSHED AGGREGATE SURFACING SHALL BE PLACED BETWEEN THE PAVING LIMITS AND CONSTRUCTION LIMITS.

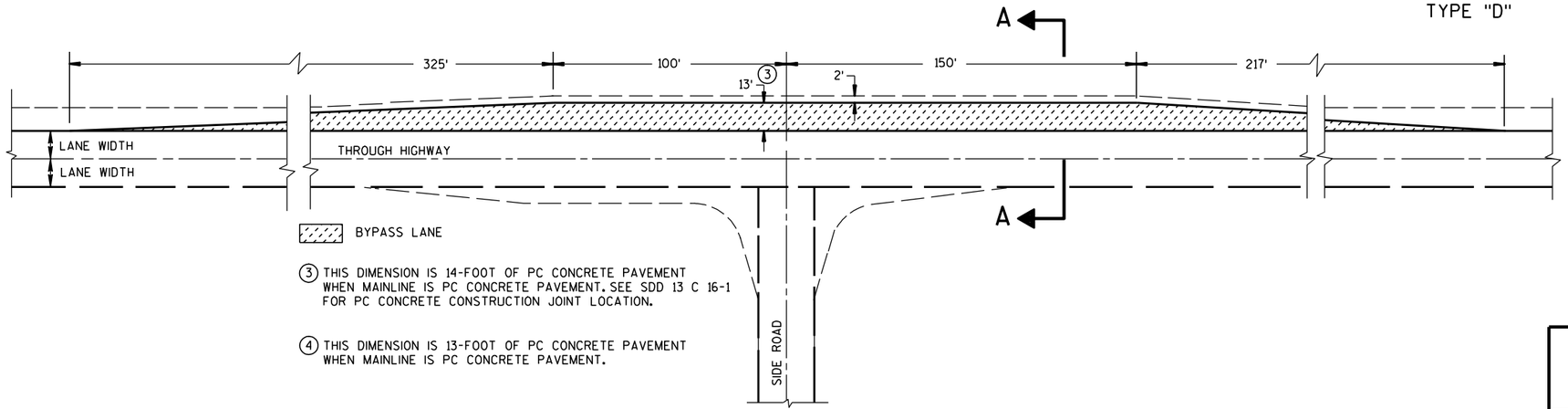
WHEN THE SIDE ROAD IS PRESENTLY PAVED, NEW PAVEMENT SHALL BE PLACED TO THE LIMITS OF DESIGN AS SHOWN AND BEYOND, IF NECESSARY, TO MEET EXISTING PAVEMENT.

WHEN THE SIDE ROAD IS THE CONSTRUCTION PROJECT, THE INTERSECTION SURFACING SHALL BE THE SAME AS FOR THE PROJECT.

EXISTING SURFACE



SECTION A-A
(SHOWING BYPASS LANE AND SHOULDER)



(3) THIS DIMENSION IS 14-FOOT OF PC CONCRETE PAVEMENT WHEN MAINLINE IS PC CONCRETE PAVEMENT. SEE SDD 13 C 16-1 FOR PC CONCRETE CONSTRUCTION JOINT LOCATION.

(4) THIS DIMENSION IS 13-FOOT OF PC CONCRETE PAVEMENT WHEN MAINLINE IS PC CONCRETE PAVEMENT.

TEE INTERSECTION BYPASS LANE DETAIL

AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND "D" AND TEE INTERSECTION BYPASS LANE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PSE

6

S.D.D. 9 A 1-12a

6

S.D.D. 9 A 1-12a

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.

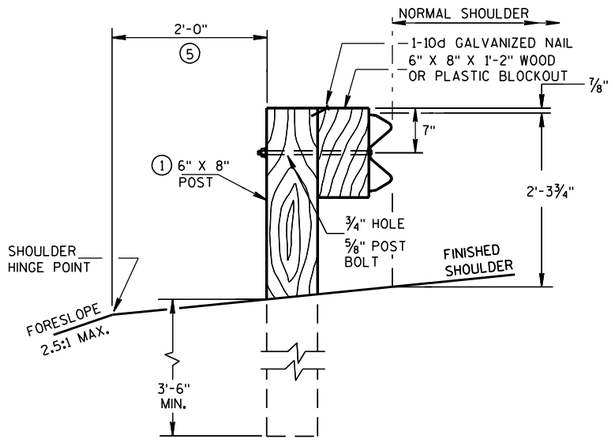
(4) USE EITHER WOOD OR APPROVED PLASTIC BLOCKOUTS ON WOOD POSTS.

(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).

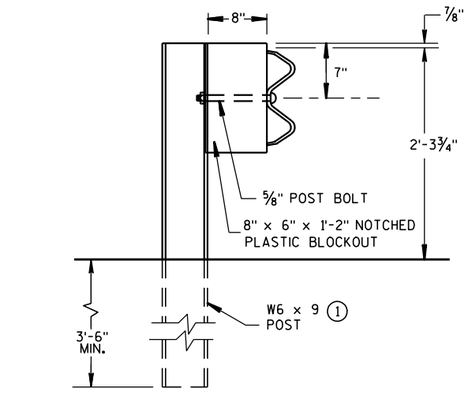
(6) IF ROCK IS ENCOUNTERED DURING EXCAVATION, THE ENGINEER MAY APPROVE USING A 12 INCH DIAMETER POST HOLE EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE APPROXIMATELY 2½ INCHES DEEP. CUT THE POSTS TO LENGTH AND PLACE IN YHE HOLE. BACKFILL WITH MATERIAL EXCAVATED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

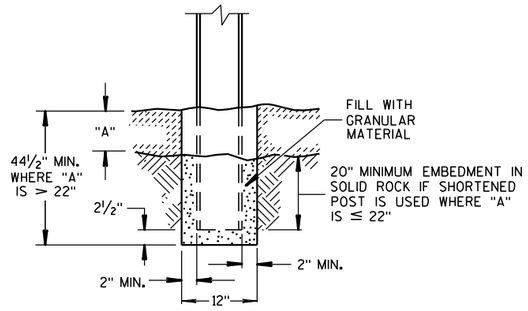
ALL DIMENSIONS ARE SUBJECT TO MANUFACTURER'S TOLERANCES EXCEPT WHERE ALLOWABLE TOLERANCES ARE SHOWN.



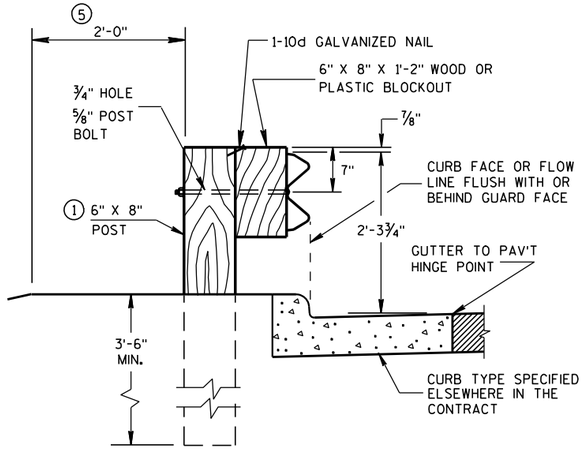
END VIEW
LOCATED ALONG A ROADWAY SHOULDER
STANDARD INSTALLATION



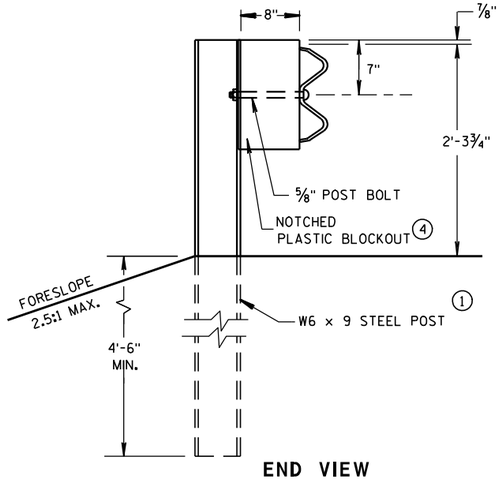
END VIEW
STEEL POST & NOTCHED
PLASTIC BLOCKOUT ALTERNATIVE
STANDARD INSTALLATION



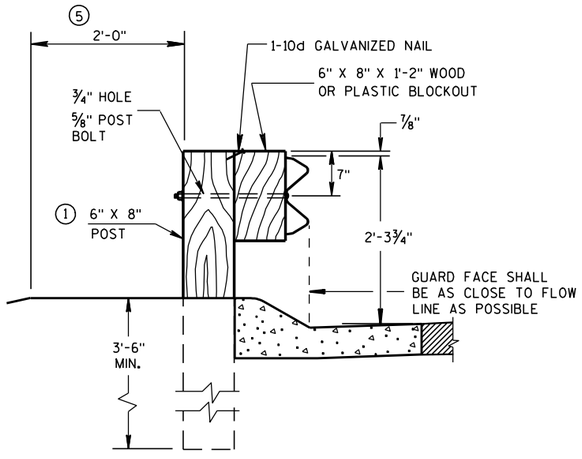
END VIEW
SETTING STEEL OR WOOD POST IN ROCK (6)



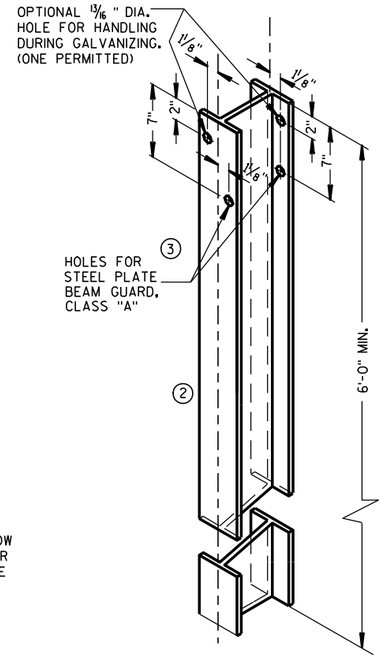
END VIEW
LOCATED ALONG A CURBED ROADWAY



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

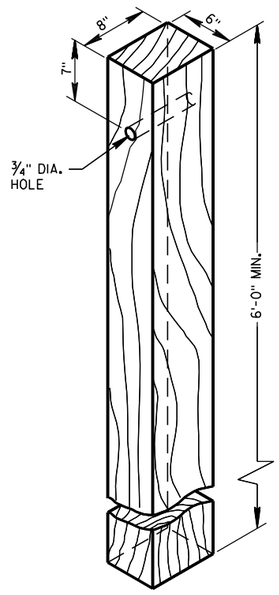


END VIEW
LOCATED ALONG A
MOUNTABLE CURBED ROADWAY

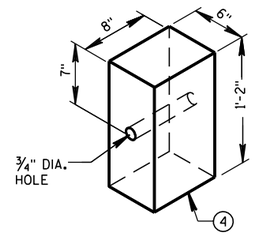


STEEL POST & HOLE PUNCHING DETAIL (W6 X 9) (1)

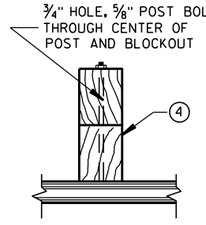
ALL HOLES 13/16" DIAMETER EXCEPT AS NOTED



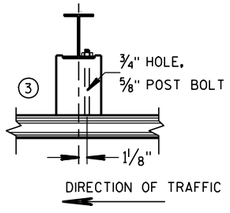
WOOD POST (6"X8") NOMINAL



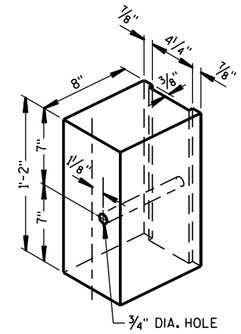
WOOD OR PLASTIC BLOCKOUT FOR WOOD POSTS



PLAN VIEW
WOOD POST,
BLOCKOUT & BEAM



PLAN VIEW
STEEL POST, NOTCHED
PLASTIC BLOCKOUT & BEAM



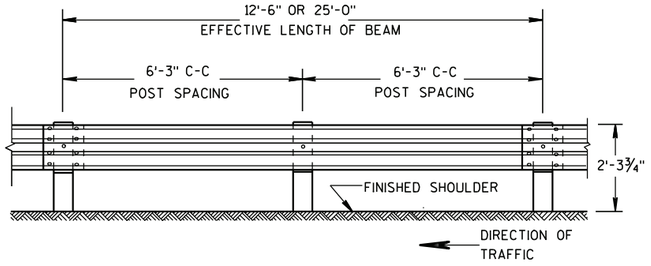
TYPICAL NOTCHED PLASTIC BLOCKOUT FOR STEEL POSTS (1)

TYPICAL INSTALLATION OF STEEL PLATE BEAM GUARD

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

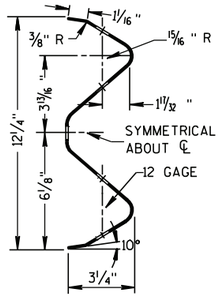
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PSE

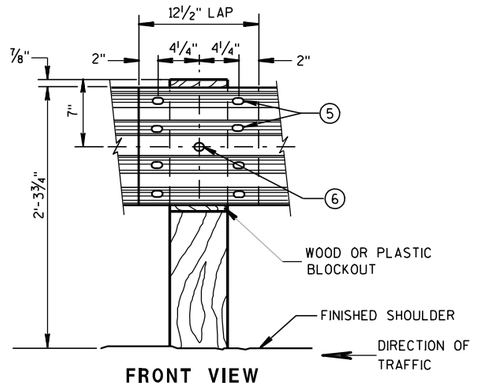


FRONT VIEW

POST SPACING STANDARD INSTALLATION



SECTION THRU W BEAM

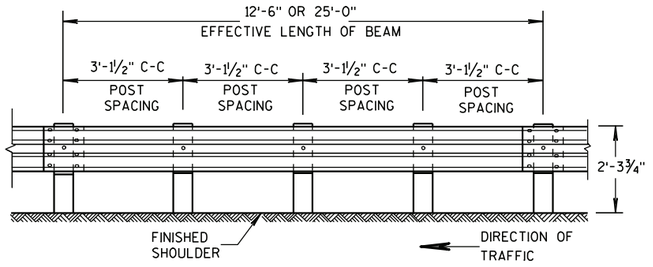


FRONT VIEW

BEAM SPLICE AT WOOD POST AND POST MOUNTING DETAIL

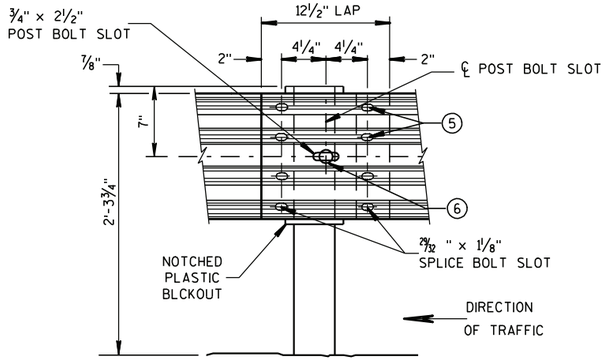
GENERAL NOTES

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 - 5/8" ϕ X 2 " BUTTON HEAD BOLTS WITH OVAL SHOULDERS & RECESS NUTS.
6. 5/8" ϕ X 1'-6" BUTTON HEAD BOLT AND AND RECESS NUT WITH ROUND WASHER UNDER NUT.



FRONT VIEW

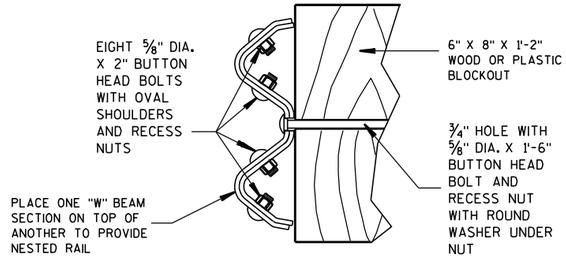
POST SPACING FOR LONGER POST AT HALF POST SPACING W BEAM (LHW)



FRONT VIEW

BEAM SPLICE AT STEEL POST

TYPICAL SPLICING DETAILS OF STEEL PLATE BEAM GUARD

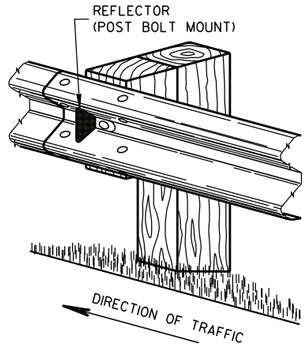


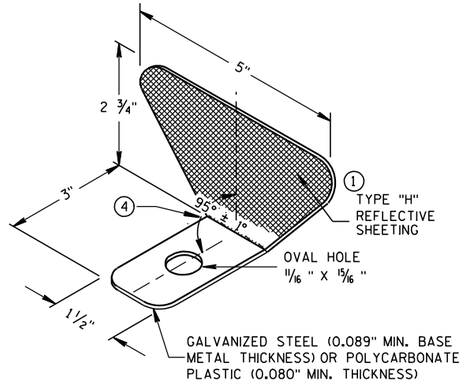
NESTED W BEAM (NW)

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	3
	> 200'	100' C-C	2 (4)	





ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION (1)

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO...

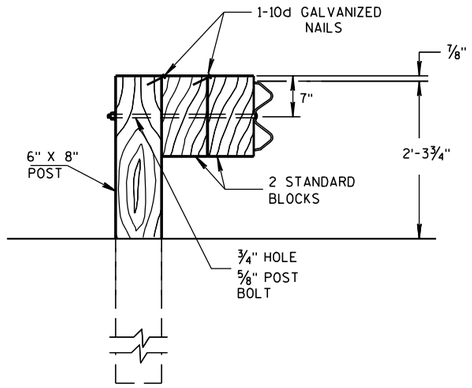
PSE

6

S.D.D. 14 B 15-7b

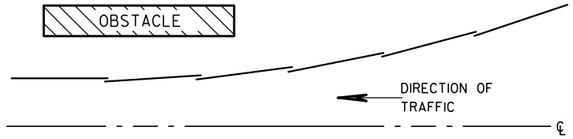
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S.D.D. 14 B 15-7b

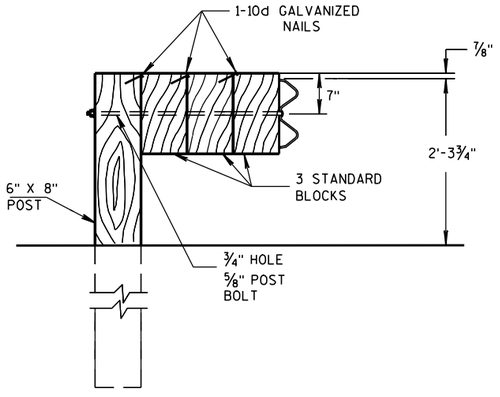


DETAIL FOR DOUBLE BLOCKS

THE NUMBER OF DOUBLE BLOCK POSTS WITHIN A BARRIER RUN IS UNLIMITED

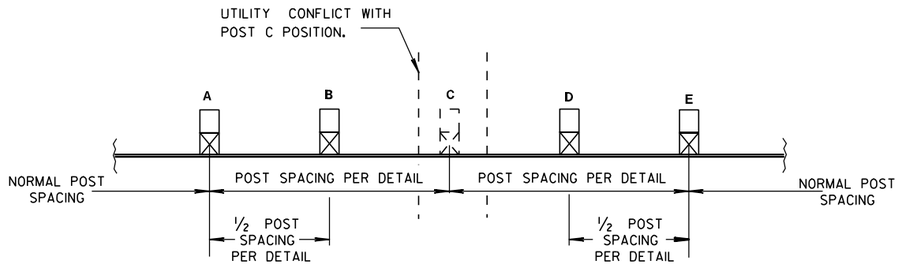


PLAN VIEW
BEAM LAPPING DETAIL



DETAIL FOR TRIPLE BLOCKS

TRIPLE BLOCK DETAIL IS LIMITED TO ONE LOCATION WITHIN A BEAM GUARD RUN.



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION

NOTES: USE DOUBLE OR TRIPLE BLOCKS WHEN UNDERGROUND OBSTACLES PREVENT THE POST FROM BEING INSTALLED.

DO NOT USE EXTRA BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

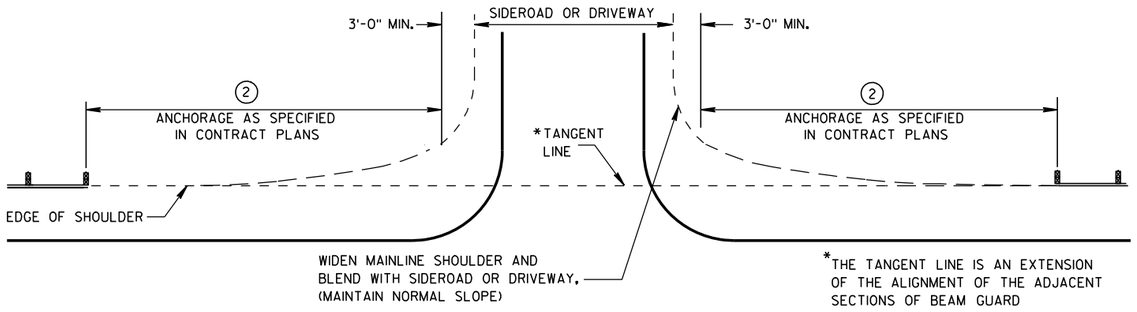
5/23/11	/S/ Jerry H. Zogg	
DATE	ROADWAY STANDARDS ENGINEER 290	ENT

FHWA PSE

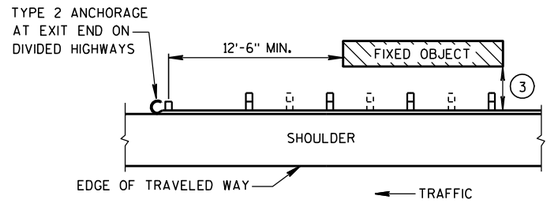
6

S.D.D. 14 B 15-7c

10301177-00008RDAPERM



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.

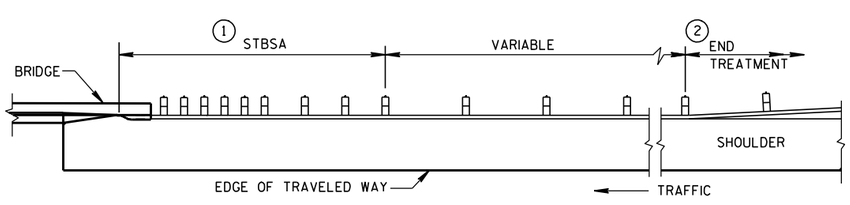
THE LOCATIONS AND LENGTHS OF BEAM GUARD ARE SHOWN ELSEWHERE IN THE PLAN.

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

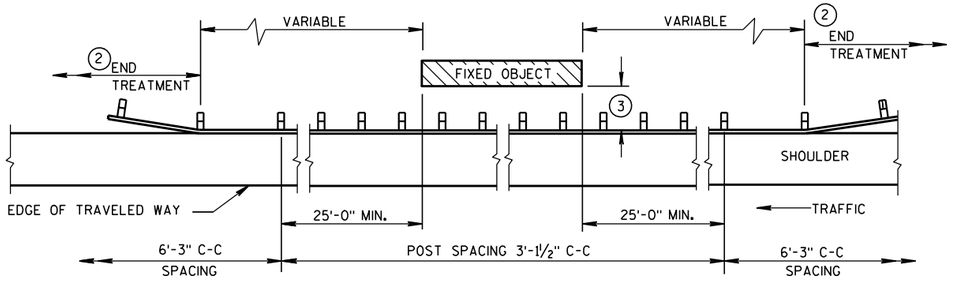
(2) USE AN APPROVED END TREATMENT FOR THE TRAFFIC APPROACH SIDE OF BRIDGE/OBSTACLES. USE TYPE 2 ANCHORAGE ONLY AT THE DOWNSTREAM ENDS OF BEAM GUARD LOCATED ALONG ROADWAYS WITH ONE WAY TRAFFIC.

(3)

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

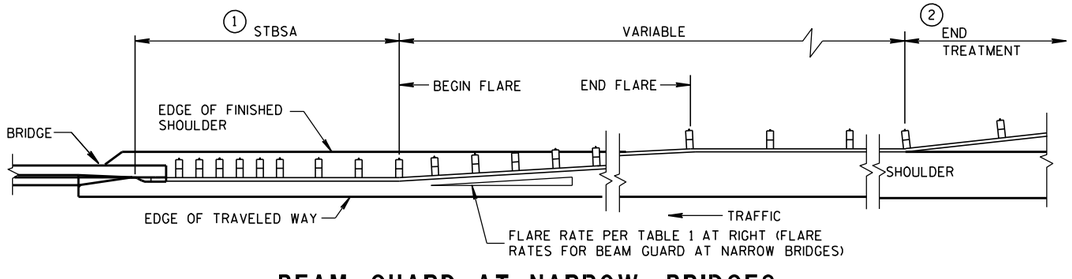


BEAM GUARD AT FULL WIDTH BRIDGES



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

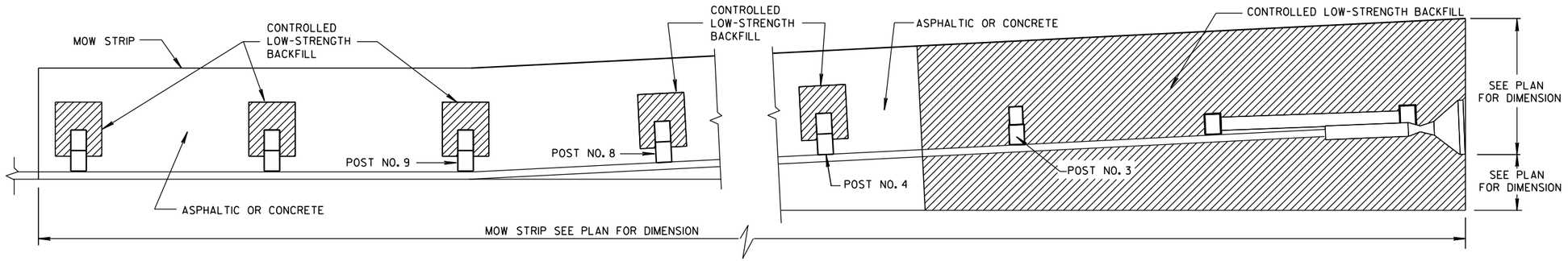
PSE

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S.D.D. 14 B 18-6a

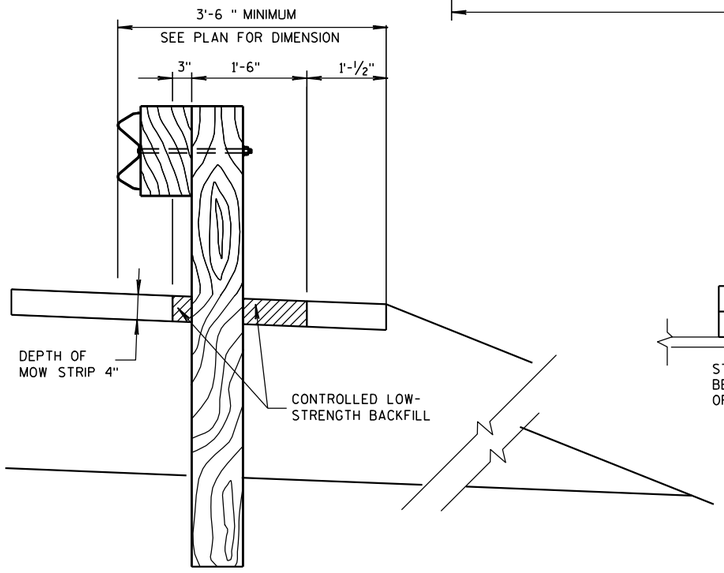
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S.D.D. 14 B 18-6a

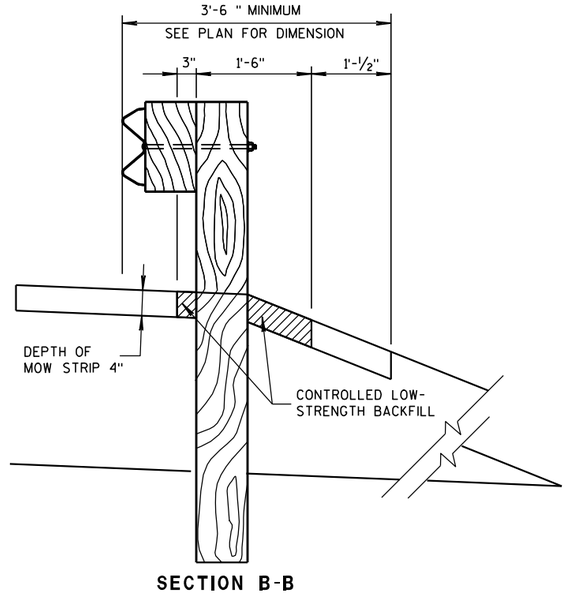


PLAN VIEW

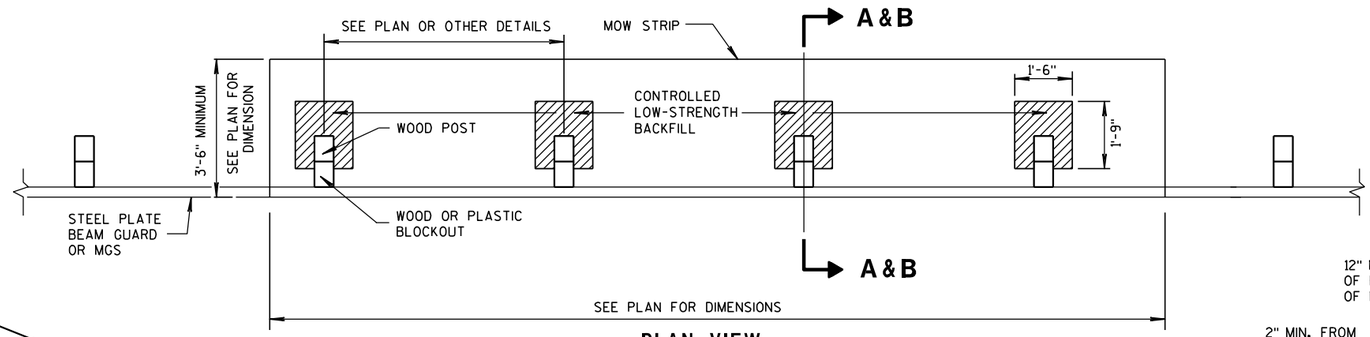
MOW STRIP FOR STEEL PLATE BEAM GUARD ENERGY ABORBING TERMINAL



SECTION A-A

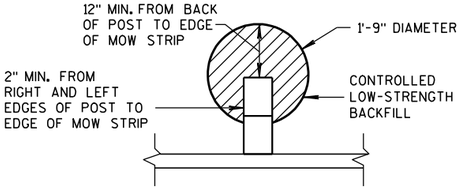


SECTION B-B

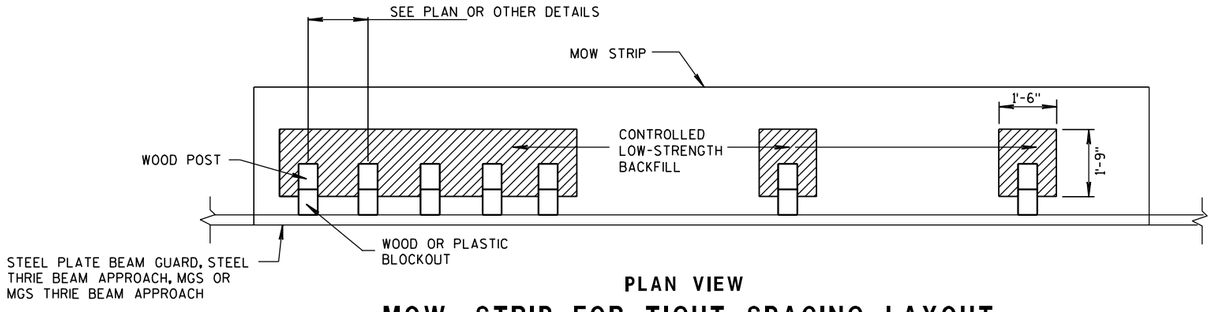


PLAN VIEW

MOW STRIP FOR TYPICAL BLOCKOUT LAYOUT

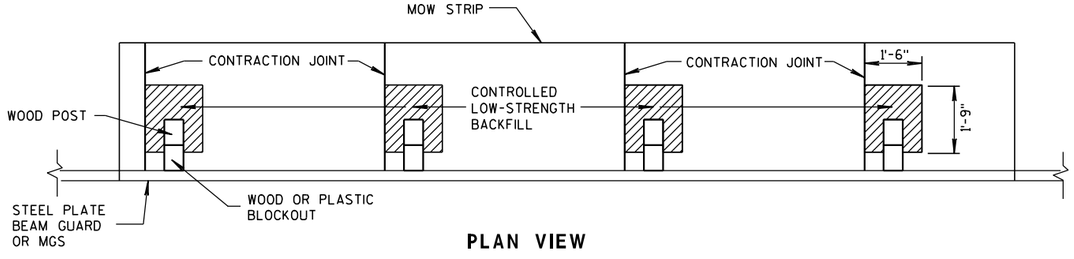


ALTERNATIVE HMA MOW STRIP DESIGN



PLAN VIEW

MOW STRIP FOR TIGHT SPACING LAYOUT



PLAN VIEW

JOINT PLACEMENT FOR CONCRETE MOW STRIP

GUARDRAIL MOW STRIP

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

1/27/12 — DATE

/S/ Jerry H. Zaas — ROADWAY STANDARDS ENGINEER PSE

FHWA

1292

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S.D.D. 14 B 28-2

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S.D.D. 14 B 28-2

GENERAL NOTES

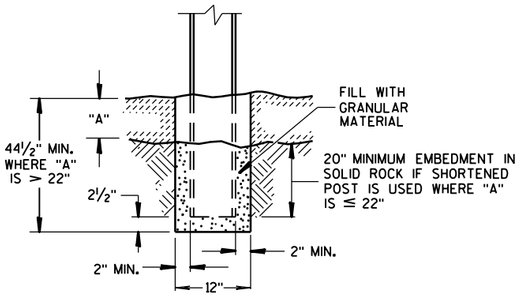
1. WOOD OR STEEL POSTS (w6X9 OR w6X8.5) MAY BE USED. DO NOT INTERMIX WOOD AND STEEL POSTS. INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.

2. USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.

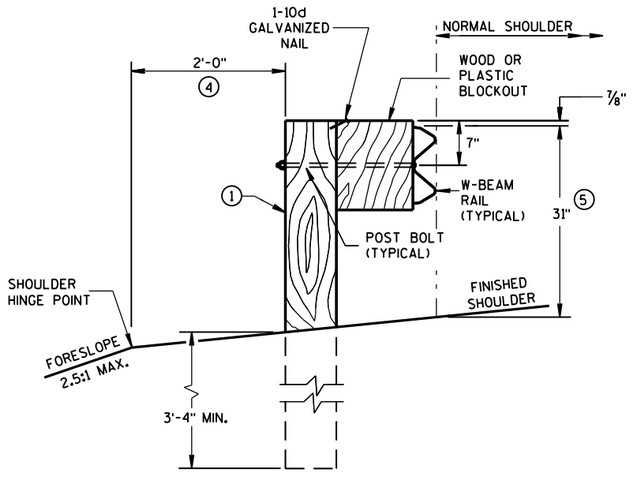
3. IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2½ INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS TO BE FREE OF LARGE ROCKS.

4. WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).

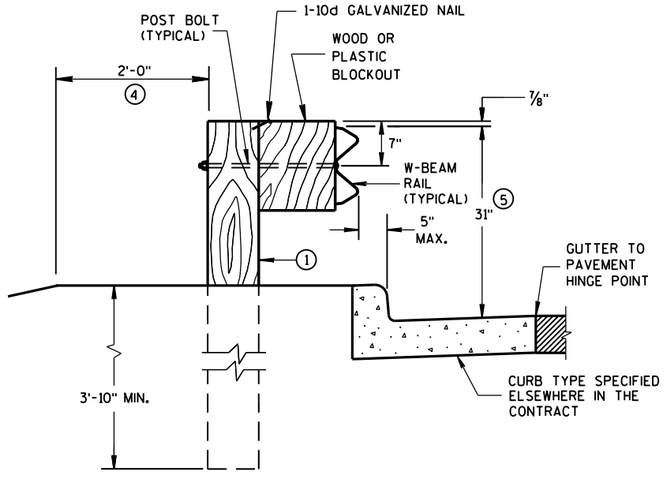
5. FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ± 1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27¾" TO 32".



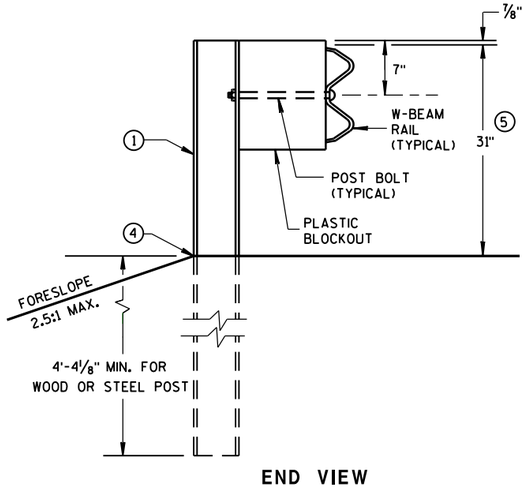
END VIEW
SETTING STEEL OR WOOD POST IN ROCK ③



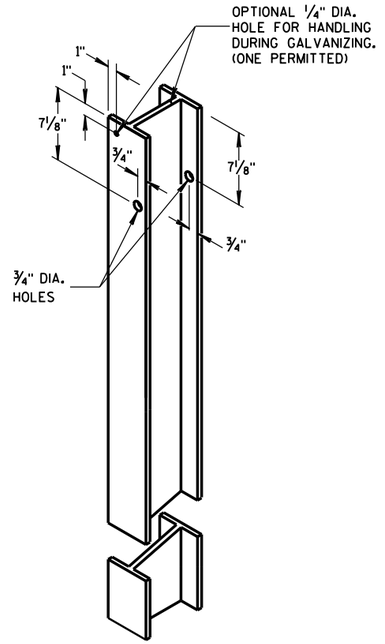
END VIEW
LOCATED ALONG A ROADWAY SHOULDER
STANDARD INSTALLATION



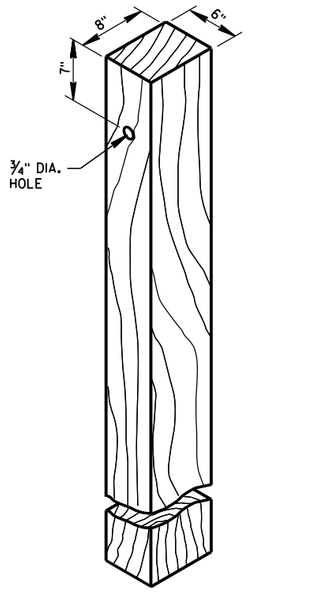
END VIEW
LOCATED ALONG A CURBED ROADWAY



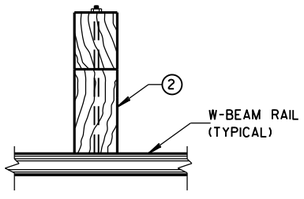
END VIEW
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



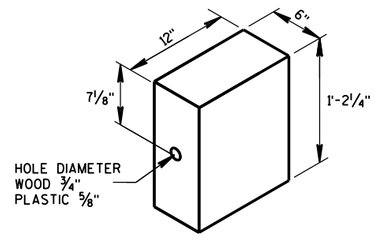
STEEL POST &
HOLE PUNCHING DETAIL
(w6X9) ①



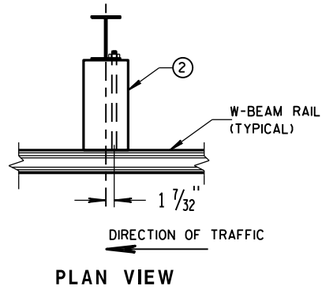
WOOD POST
(6" X 8") NOMINAL ①



PLAN VIEW
WOOD POST,
BLOCKOUT & BEAM



WOOD OR
PLASTIC BLOCKOUT ②



PLAN VIEW
STEEL POST,
PLASTIC BLOCKOUT & BEAM

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

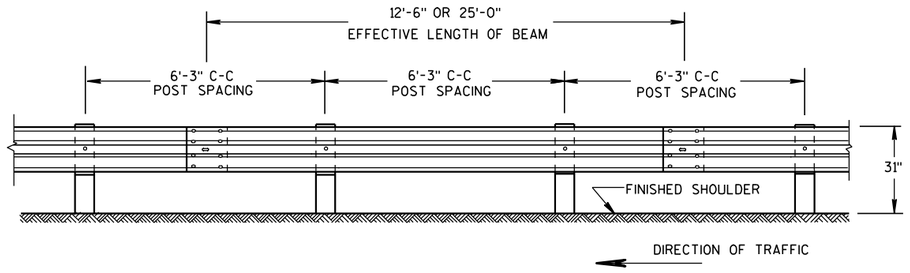
PSE

6

S.D.D. 14 B 42-2a

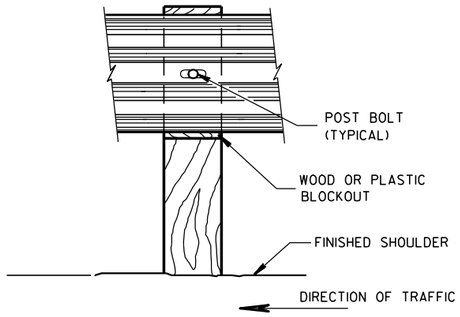
6

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FRONT VIEW

POST SPACING STANDARD INSTALLATION



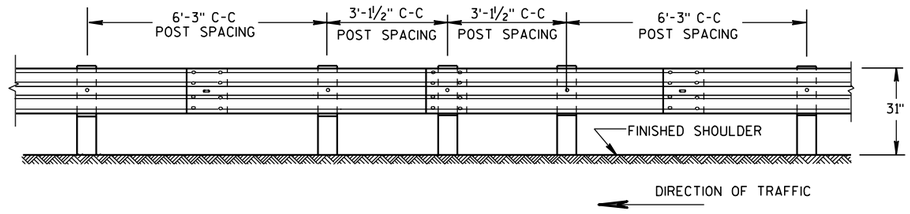
FRONT VIEW AT WOOD POST

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. RAIL SPLICE LOCATIONS ARE THE ONLY ACCEPTABLE LOCATIONS FOR REFLECTORS.
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. 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.

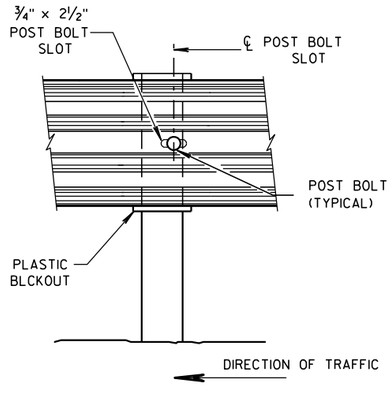
POST BOLTS ARE A 5/8" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT REQUIRES 5/8" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND 5/8" DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS ARE BEING USED.

GUARD RAIL SPLICE BOLTS ARE A 5/8" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES 5/8" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.

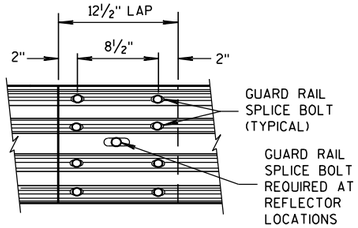


FRONT VIEW

HALF POST SPACING (HS) AND HALF POST SPACING WITH LONGER POSTS (K)

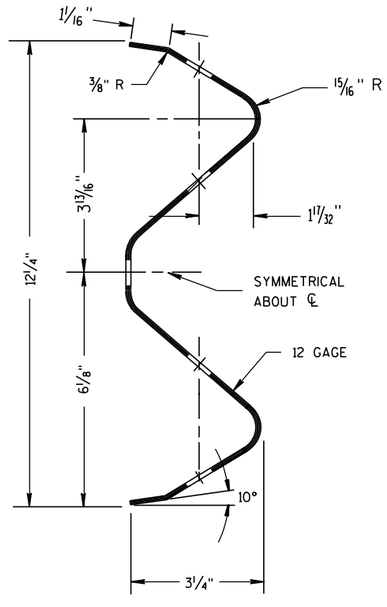


FRONT VIEW AT STEEL POST

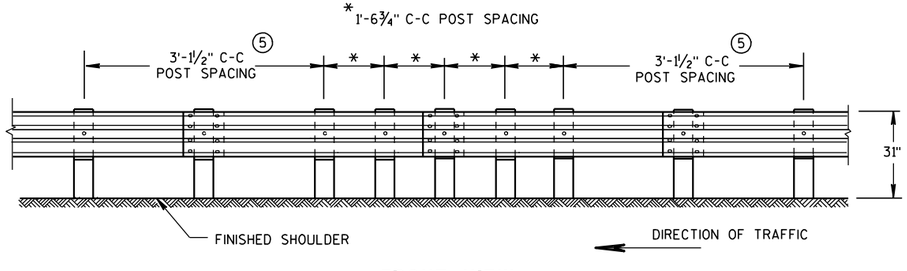


FRONT VIEW

MID-SPAN BEAM SPLICE

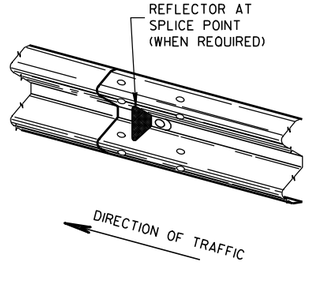


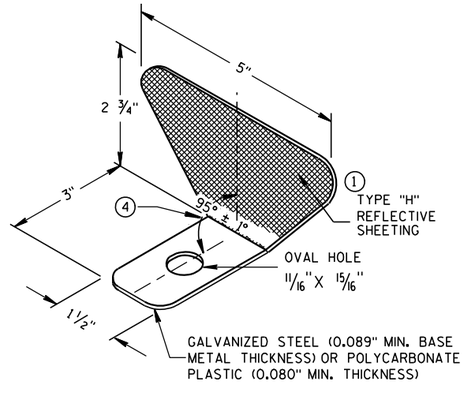
SECTION THRU W-BEAM RAIL



FRONT VIEW

QUARTER POST SPACING (QS)





ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION (1)

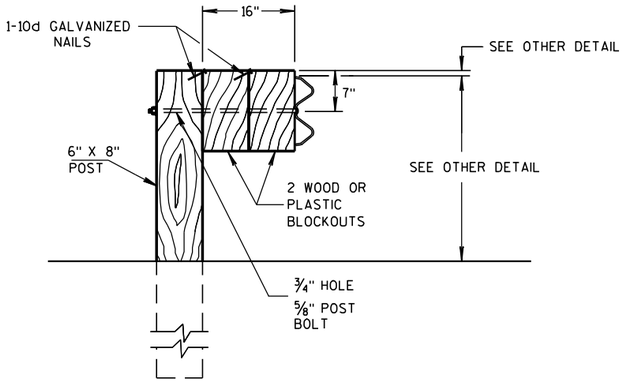
REFLECTOR SPACING (2)

	BEAM GUARD LENGTH	REFLECTOR SPACING	NO. SURFACES REFLECTORIZED	MIN. NO. REFLECTORS
ONE WAY TRAFFIC	< 200' > 200'	50' C-C 100' C-C	1 1	3
TWO WAY TRAFFIC	< 200' > 200'	25' C-C 50' C-C	1 (3) 1	6
TWO WAY TRAFFIC	< 200' > 200'	50' C-C 100' C-C	2 (4) 2	3

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

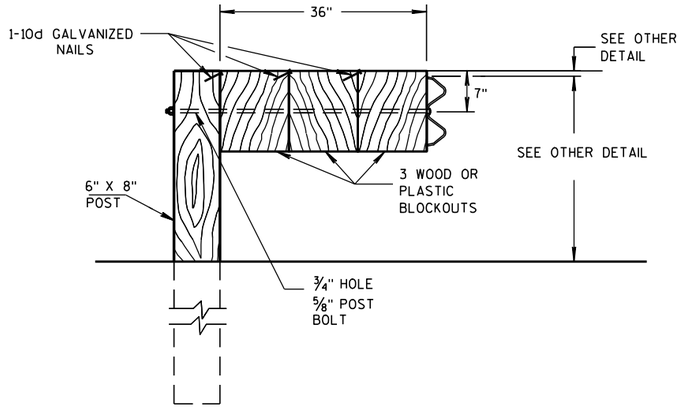
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S.D.D. 14 B 42-2b



DETAIL FOR 16" BLOCKOUT DEPTH

IT IS ACCEPTABLE TO USE BLOCKOUTS UP TO 16" DEEP TO INCREASE THE POST OFFSET TO AVOID UNDERGROUND OBSTACLES. THERE IS NO LIMIT TO THE NUMBER OF POSTS THAT CAN HAVE ADDITIONAL BLOCKOUTS UP TO 16" DEEP.

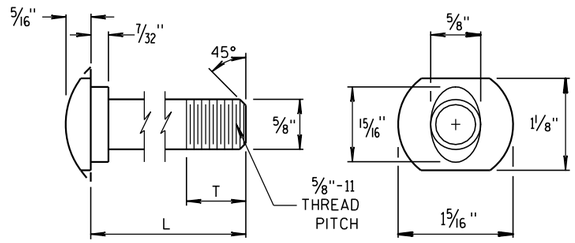


DETAIL FOR 36" BLOCKOUT DEPTH

NOTES: UNDER SPECIAL CIRCUMSTANCES, SUCH AS AVOIDING OBSTACLES THAT ARE NOT RELOCATED, IT IS ACCEPTABLE TO INSTALL ADDITIONAL BLOCKOUTS TO OBTAIN UP TO 36" DEPTH FOR ONE OR TWO POSTS IN A SECTION OF GUARDRAIL.

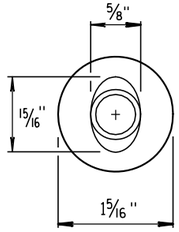
DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

NOTE: 1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF 1/16".
2. IF THE BOLT EXTENDS MORE THAN 1/4" FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.

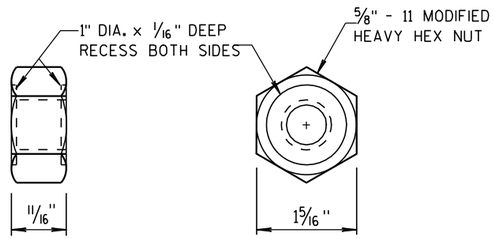


POST BOLT TABLE

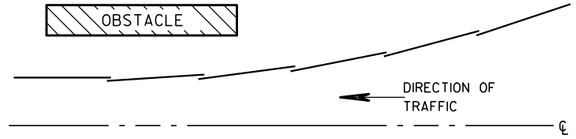
L	T (MIN.)
1 1/4"	1 1/8"
2"	1 3/4"
10"	4"
14"	4 1/16"
18"	4"
21"	4 1/16"
25"	4"



ALTERNATE BOLT HEAD

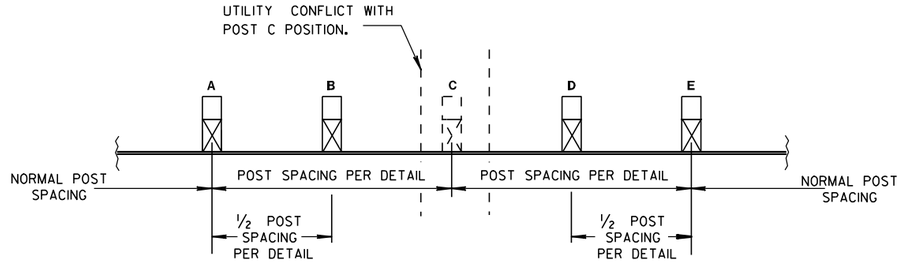


POST BOLT AND RECESS NUT

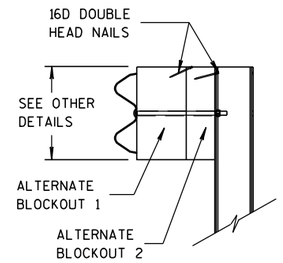


PLAN VIEW

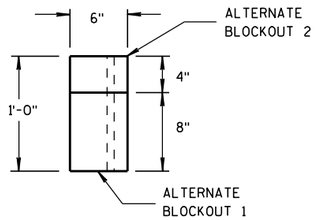
BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION



SIDE VIEW



TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

11/15/2011
DATE

/S/ Jerry H. [illegible]
ROADWAY STANDARDS ENGINEER

295

ENT

FHWA

6

S.D.D. 14 B 42-2c

6

S.D.D. 14 B 42-2c

GENERAL NOTES

(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) DIFFERENT MANUFACTURES REQUIRE DIFFERENT PERFORATED W-BEAM RAIL END PANELS. SEE MANUFACTURES INFORMATION.

(D) THE TOP OF THE STEEL TUBE ON POST 1 AND POST 2 SHALL NOT BE MORE THAN 3" ABOVE THE FINISH GROUND ELEVATION.

(F) 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.

(G) ½" DIAMETER X 3" LONG LAG BOLT AND WASHER.

(H) HARDWARE VARIES BETWEEN DIFFERENT MANUFACTURES. SEE MANUFACTURE'S DRAWING FOR INFORMATION.

(I) DIMENSIONS MAY VARY. SEE MANUFACTURE'S INFORMATION.

SEE SDD 14B42 FOR MORE INFORMATION.

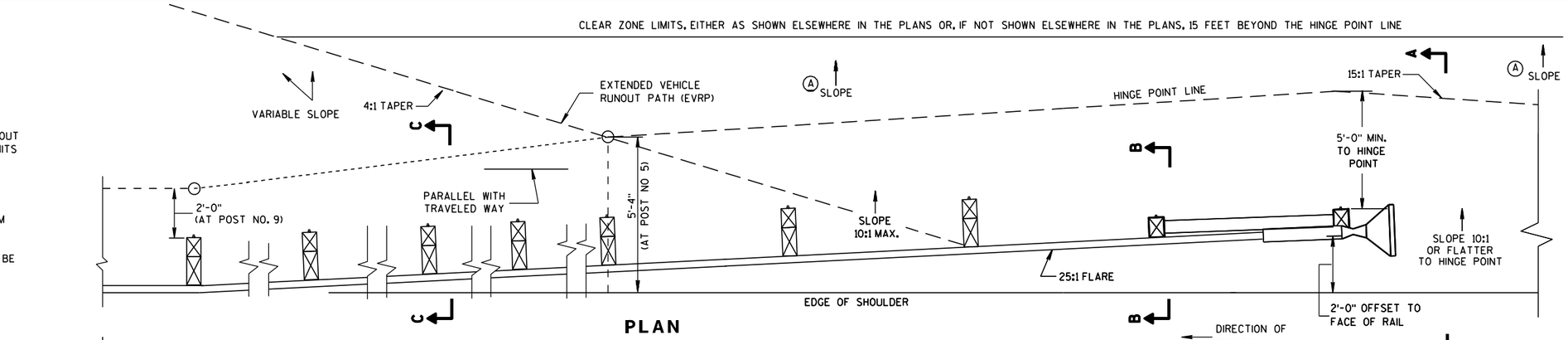
* DO NOT ATTACH BLOCKOUTS TO POSTS 1 AND 2.

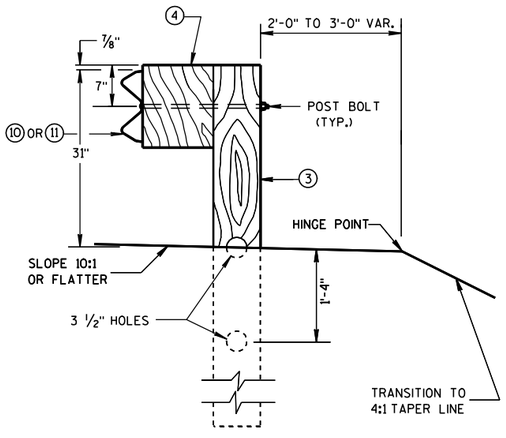
DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

W-BEAM RAIL SPLICES ARE LOCATED AT POST NUMBER 3, AND BETWEEN POST 5 AND 6, BETWEEN POSTS 7 AND 8, AND MIDDLE OF THE SPAN AFTER POST 9.

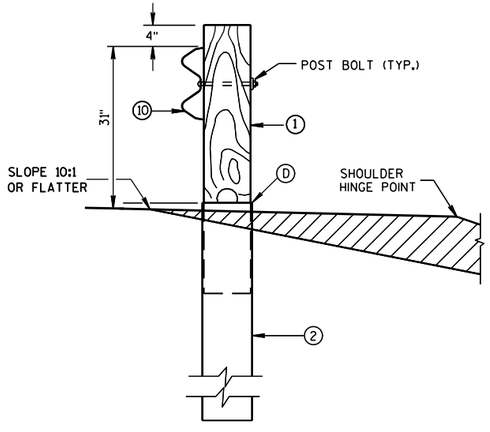
PATTERN AND COLORS ON REFLECTIVE SHEETING TYPE H ARE TO CONFORM TO OM3-L OR OM3-R OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

THE CENTER OF THE UPPER 3½" DIAMETER HOLE ON POST NUMBER 3 THROUGH POST 9 IS TO BE FLUSH WITH THE GROUND LINE (± ¾")

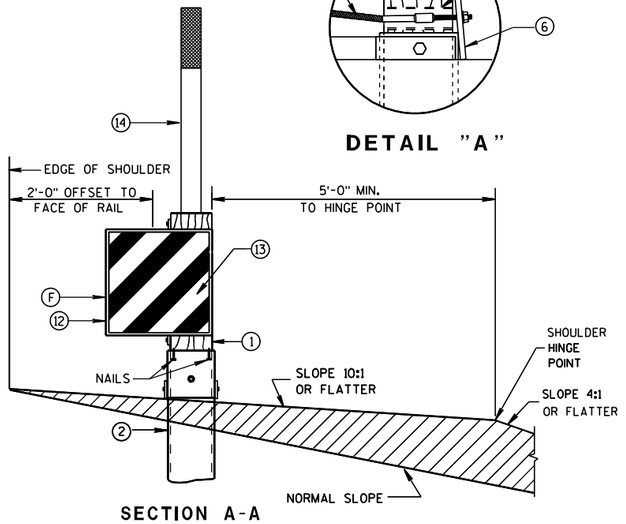




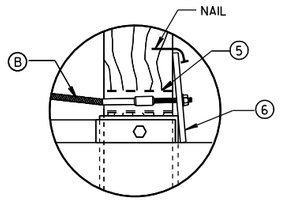
SECTION C-C
TYPICAL AT POST NOS. 3-9



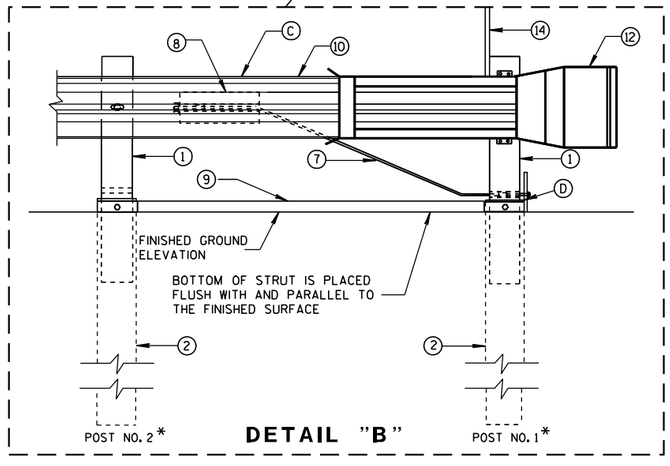
SECTION B-B
TYPICAL AT POST NO. 2*



SECTION A-A
TYPICAL AT POST NO. 1*



DETAIL "A"

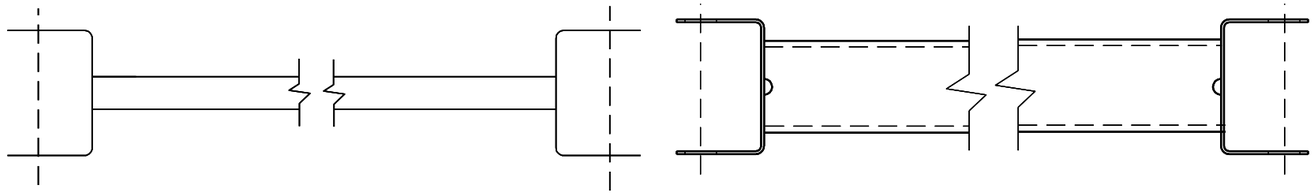


DETAIL "B"

MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

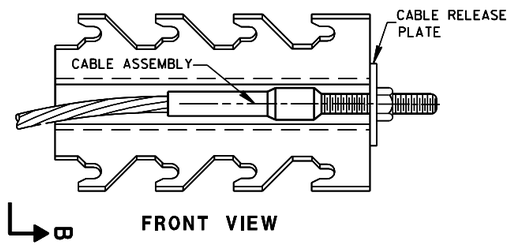
S.D.D. 14 B 44-1a



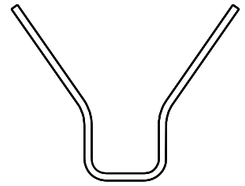
GENERIC GROUND STRUT (9) (H)

BILL OF MATERIALS

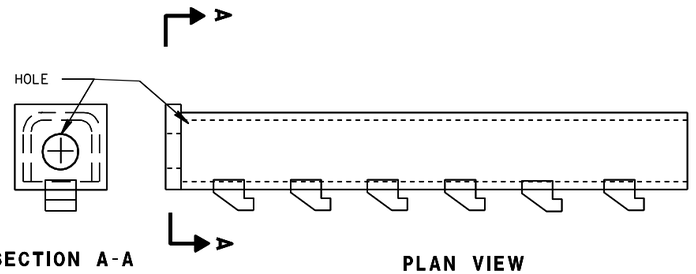
PART NO.	DESCRIPTION MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUFACTURER'S DETAILS FOR MORE INFORMATION.
(1)	WOOD BREAKAWAY POST
(2)	6" X 8" X 0.188", 6'-0" LONG FOUNDATION TUBE AT POSTS 1 AND 2
(3)	WOOD CRT
(4)	WOOD BLOCKOUT
(5)	PIPE SLEEVE
(6)	BEARING PLATE
(7)	BCT CABLE ASSEMBLY
(8)	ANCHOR CABLE BOX
(9)	GROUND STRUT
(10)	PERFORATED W-BEAM RAIL END PANEL, 12'-6" LONG.
(11)	STANDARD W-BEAM RAIL. MULTIPLE SECTIONS REQUIRED. SECTIONS VARY IN LENGTH.
(12)	END SECTION EAT
(13)	0.040" ALUMINUM SHEET WITH REFLECTIVE SHEETING TYPE H (ONLY THE SHEETING IS SUPPLIED BY THE MANUFACTURER)
(14)	EAT MARKER POST - YELLOW (SEE APPROVED PRODUCTS LIST)



FRONT VIEW



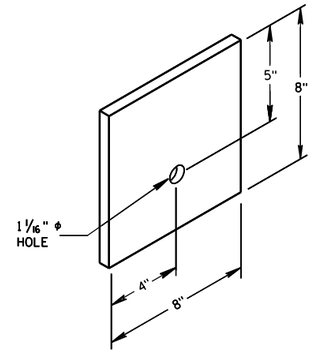
SECTION B-B



SECTION A-A

PLAN VIEW

GENERIC ANCHOR CABLE BOX (8) (H)



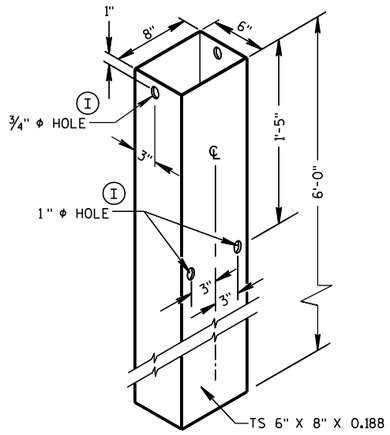
BEARING PLATE (6)

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

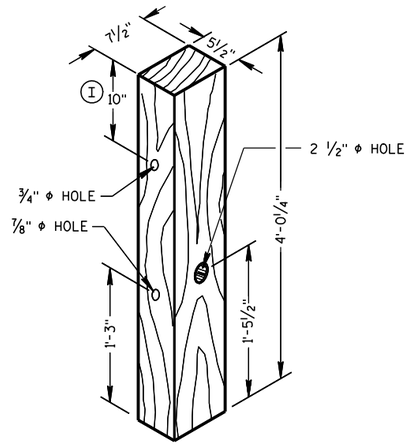
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PSE

6
S.D.D. 14 B 44-1b

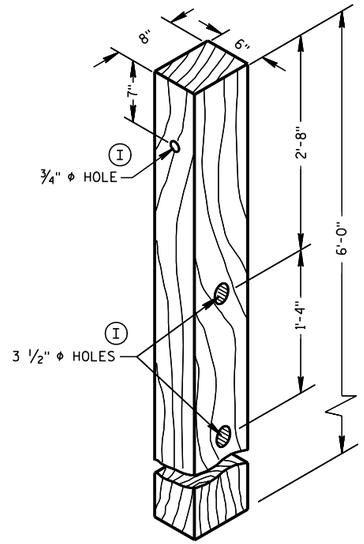


FOUNDATION TUBE (2)



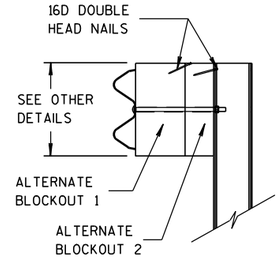
POSTS NUMBER 1 AND 2

WOOD BREAKAWAY POST (1)

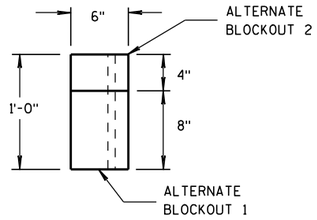


POSTS NUMBER 3-9

WOOD CRT POST (3)

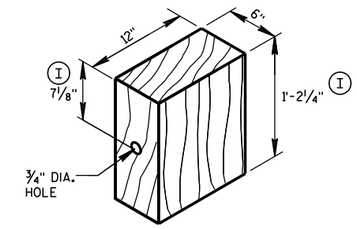


SIDE VIEW



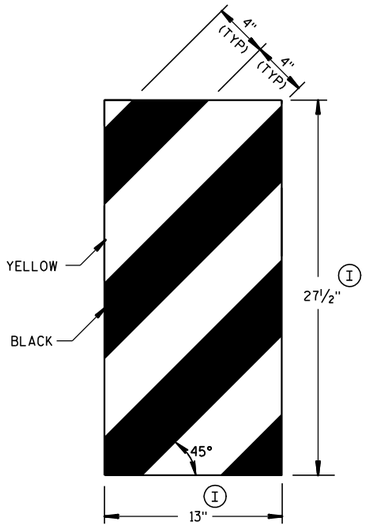
TOP VIEW

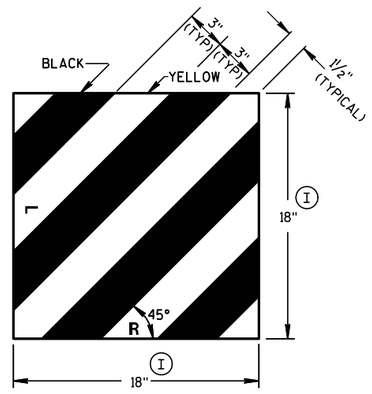
ALTERNATE WOOD BLOCKOUT DETAIL



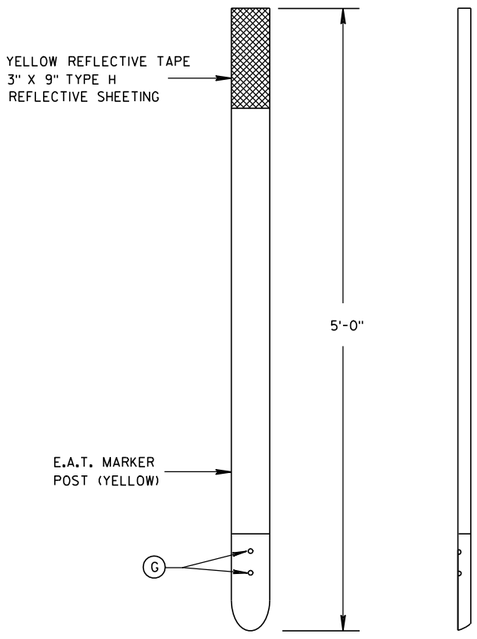
WOOD BLOCKOUT (4)

REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2





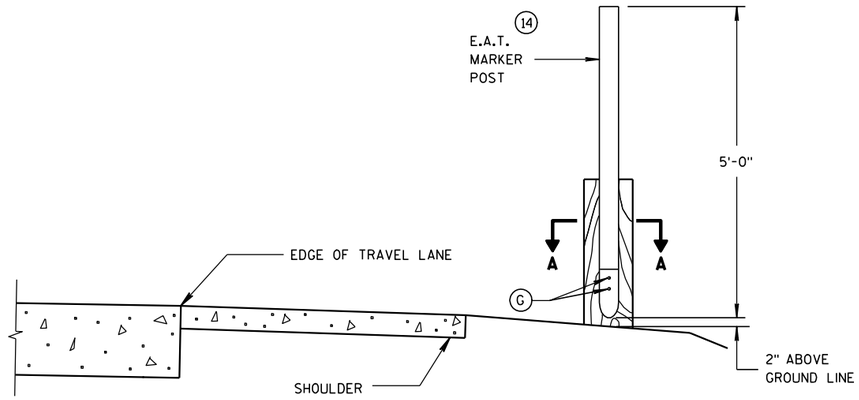
GENERIC REFLECTIVE SHEETING (13) (H)



FRONT VIEW

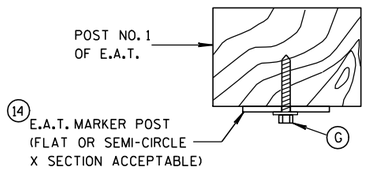
SIDE VIEW

E.A.T. MARKER POST (14)



TYPICAL INSTALLATION OF E.A.T. MARKER POST BACKSIDE OF POST NO. 1

(E.A.T. AND RAIL REMOVED FOR CLARITY)



SECTION A-A

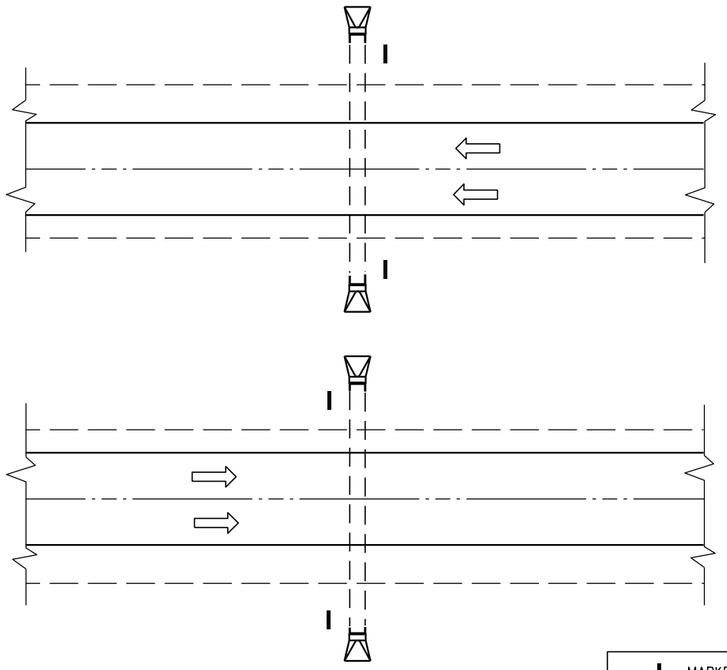
MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

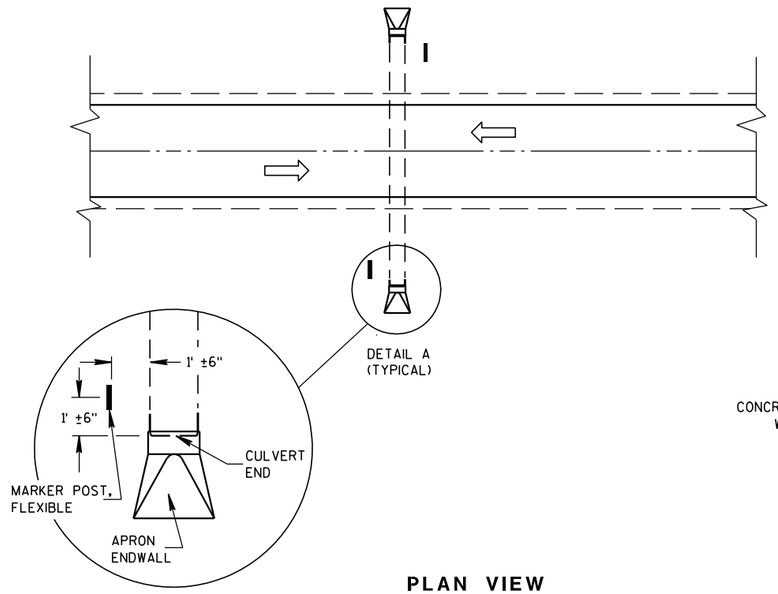
APPROVED
5/23/2011
DATE
/S/ Jerry H. [illegible]
ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA

6
S.D.D. 14 B 44-1c



PLAN VIEW
DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

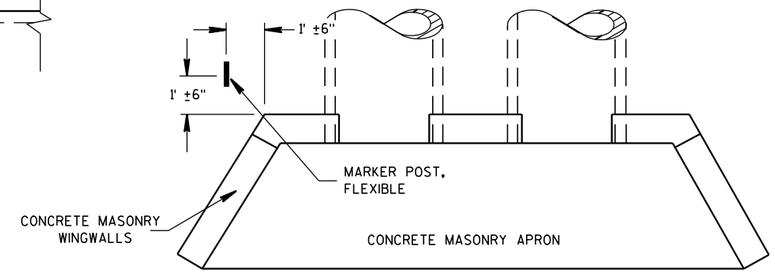
PLAN VIEW
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

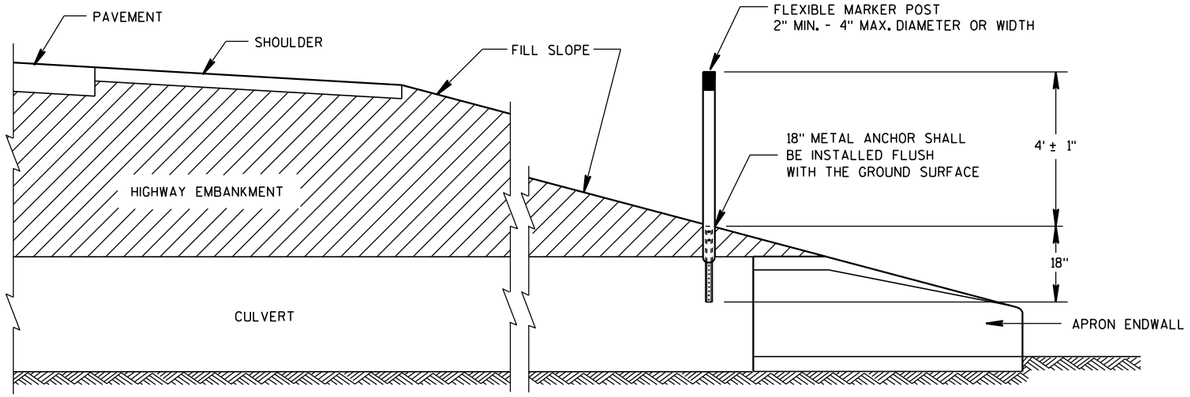
DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

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

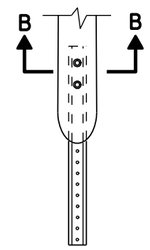


PLAN VIEW
CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

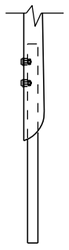


CROSS SECTION
FLEXIBLE MARKER POST

FLEXIBLE MARKER POST LOCATION

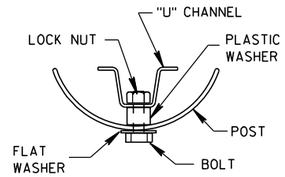


FRONT VIEW

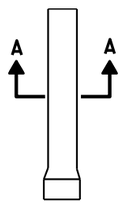


SIDE VIEW

CURVED MARKER



SECTION B-B

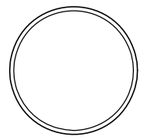


FRONT VIEW



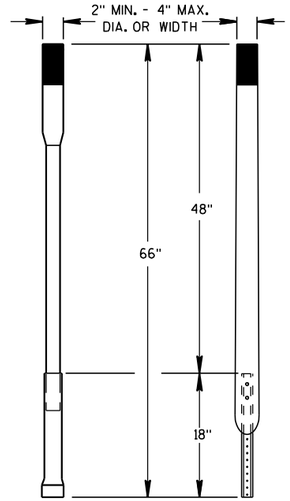
SIDE VIEW

ROUND MARKER



SECTION A-A

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

/S/ Rory L. Rhinesmith
CHEIF ROADWAY DEVELOP ENGINEER

FHWA

299

PSE

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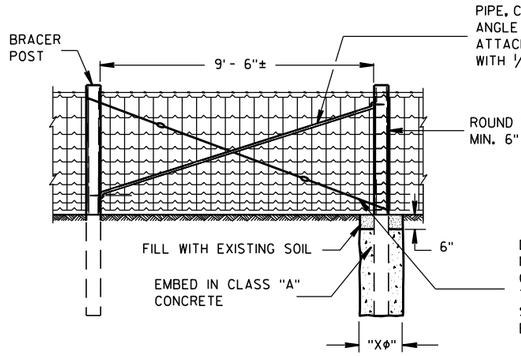
S.D.D. 15 A 3-1

6

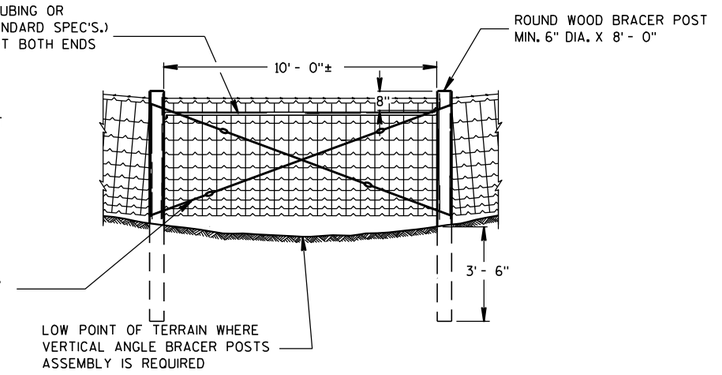
S.D.D. 15 A 3-1

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

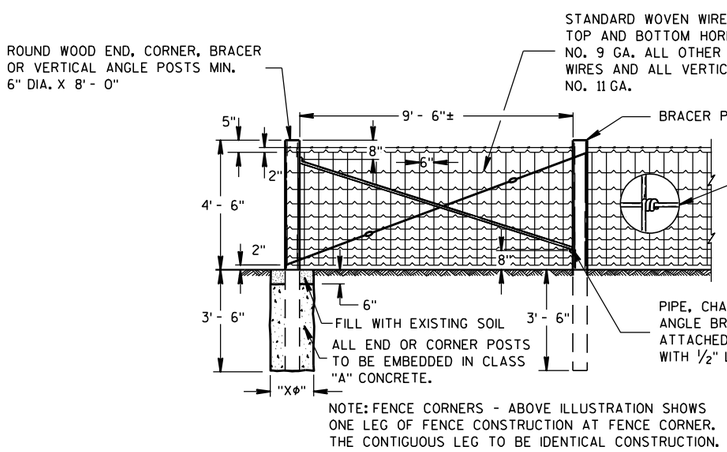
GENERAL NOTES

"XΦ" = DIAMETER OF THE POST PLUS 12".

FENCE STAPLES SHOULD NEVER BE DRIVEN VERTICALLY INTO WOOD POSTS (WITH BOTH LEGS PARALLEL WITH THE WOOD GRAIN). DOING SO CAN SEPARATE THE GRAIN AND SIGNIFICANTLY REDUCE THE HOLDING POWER. ROTATING THE STAPLES SLIGHTLY OFF VERTICAL STRADDLES THE GRAIN AND PROVIDES MORE RESISTANCE TO PULL-OUT.

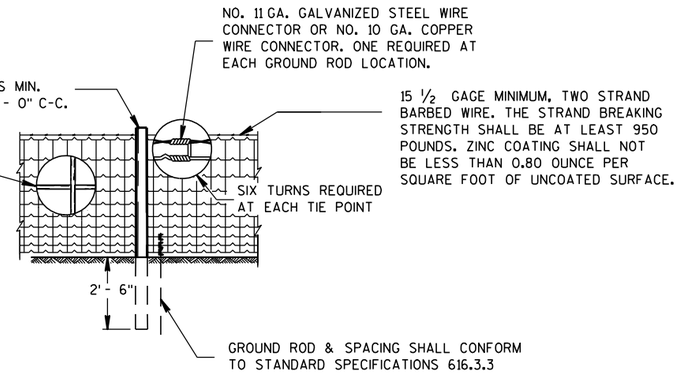
DO NOT STAPLE WIRE TIGHT TO THE LINE POSTS. ALLOW MOVEMENT OF WIRE FOR EXPANSION AND CONTRACTION. STAPLE ARRANGEMENT SHALL BE THE SAME FOR ALL OTHER POSTS EXCEPT THAT THEY SHALL BE DRIVEN TIGHT TO POSTS. ALL STAPLES SHALL BE 2" X 9 GAGE AND SHALL BE MANUFACTURED FROM GALVANIZED WIRE OR HOT DIP GALVANIZED AFTER FORMING. STAPLES SHALL HAVE SLASH-CUT POINTS.

FENCE SHALL BE LOCATED 3'-0" INSIDE THE RIGHT OF WAY LINE UNLESS OTHERWISE INDICATED ON THE PLANS.



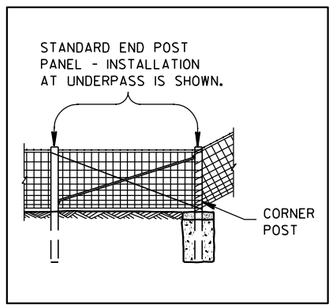
NOTE: FENCE CORNERS - ABOVE ILLUSTRATION SHOWS ONE LEG OF FENCE CONSTRUCTION AT FENCE CORNER. THE CONTIGUOUS LEG TO BE IDENTICAL CONSTRUCTION.

END OR CORNER POSTS ASSEMBLY

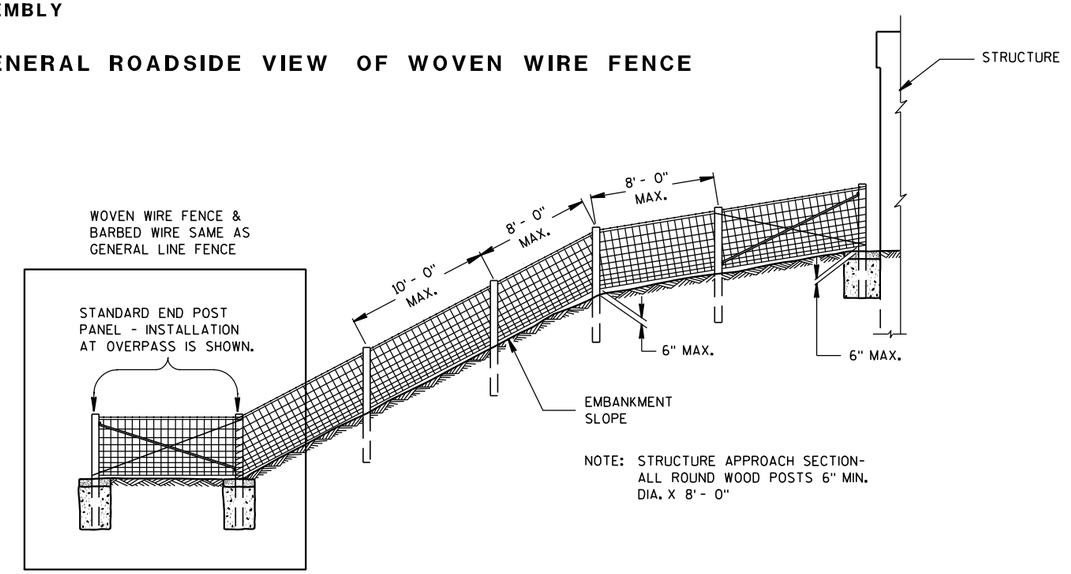


LINE FENCE CONSTRUCTION

GENERAL ROADSIDE VIEW OF WOVEN WIRE FENCE



ALTERNATE FENCE DESIGN AT STRUCTURE



NOTE: STRUCTURE APPROACH SECTION- ALL ROUND WOOD POSTS 6" MIN. DIA. X 8' - 0"

FENCE DESIGN AT STRUCTURE APPROACH

FENCE WOVEN WIRE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

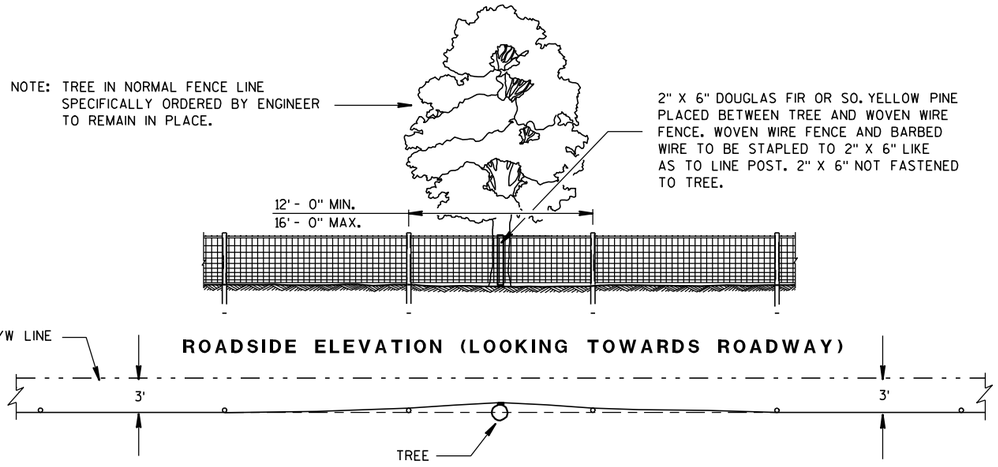
PSE

6

S.D.D. 15 B 1-8a

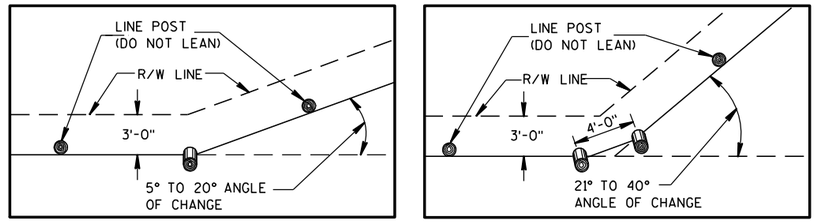
6

S.D.D. 15 B 1-8a



PLAN VIEW

FENCE DESIGN AT TREES REMAINING IN NORMAL FENCE LINE



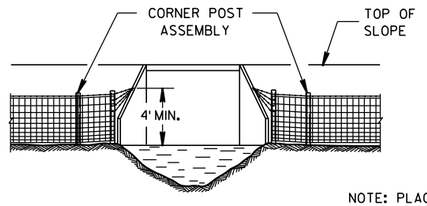
PLAN VIEW
SINGLE POST CORNER

PLAN VIEW
DOUBLE POST CORNER

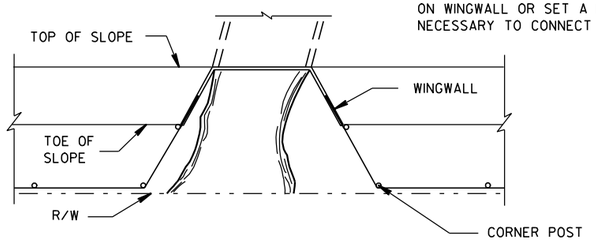
RIGHT OF WAY LINE CHANGE 40° AND LESS

NOTE: SINGLE AND DOUBLE POSTS SHALL BE A MIN. 6" DIA. X 8'-0" WITH A LEAN OF 4" TOWARD THE OUTSIDE OF THE CURVE.

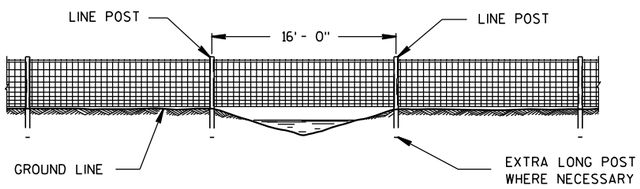
WHEN THE RIGHT OF WAY LINE CHANGE IS MORE THAN 40° USE THE CORNER OR STRETCHER POSTS ASSEMBLY.



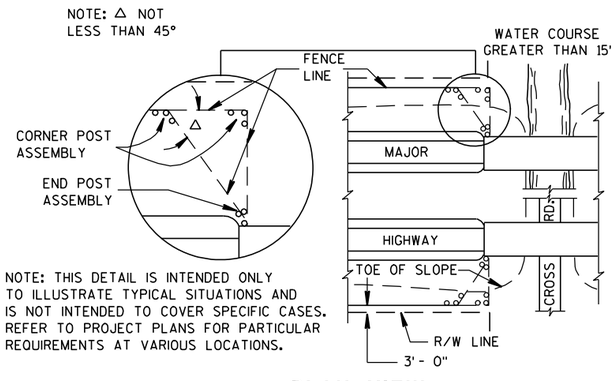
NOTE: PLACE A MINIMUM OF 4 STRANDS OF BARBED WIRE, 6" MAXIMUM CENTERS IN FAN SHAPE CONNECTED TO AN EYE BOLT ON WINGWALL OR SET A LONE POST WHEN NECESSARY TO CONNECT BARBED WIRE.



FENCE INSTALLATION TO WINGWALLS

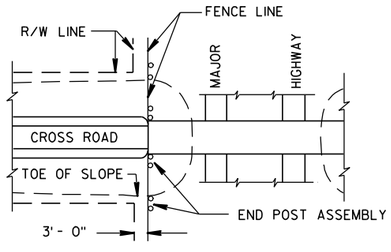


FENCE CONSTRUCTION OVER STREAM COURSES OF 15 FT. OR LESS IN WIDTH



PLAN VIEW

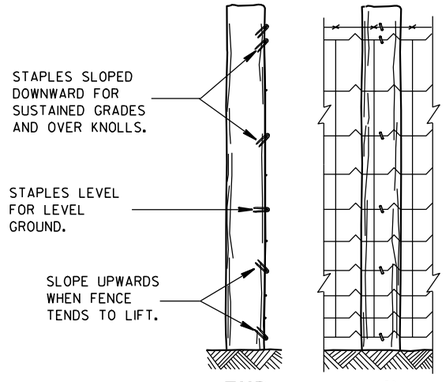
MAJOR HIGHWAY OVERPASS OR STREAM COURSE CROSSING OF GREATER THAN 15 FT. IN WIDTH



PLAN VIEW

MAJOR HIGHWAY UNDERPASS

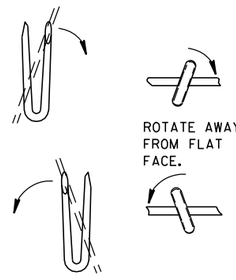
NOTE: WHEN POSTS ARE DRIVEN THE SMALL END SHALL BE DOWN.



END ELEVATION

FARM SIDE ELEVATION

FENCE MOUNTING DETAIL



LINE POST

FENCE LOCATION AT STRUCTURES

FENCE WOVEN WIRE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

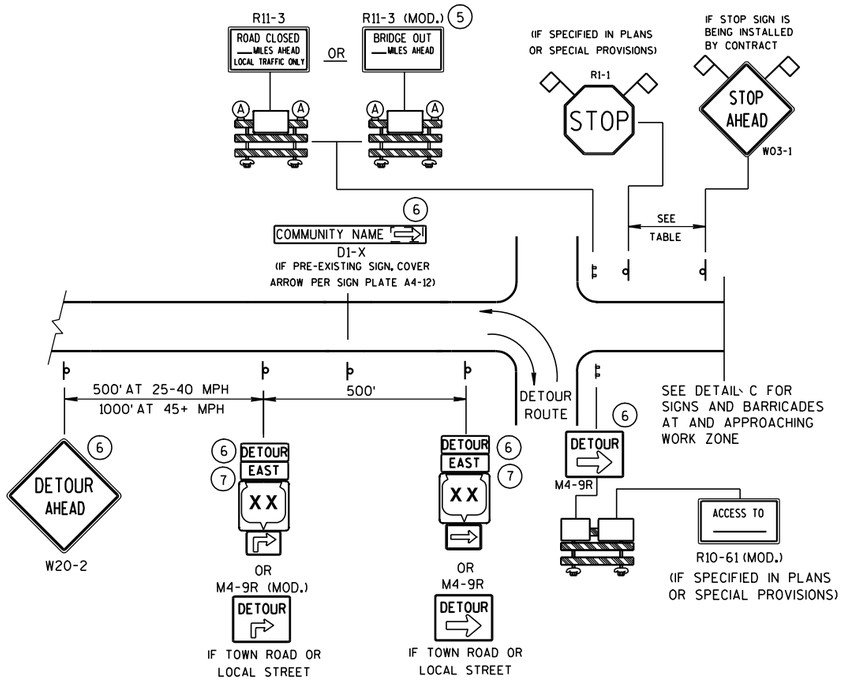
APPROVED
4/4/2008
DATE
/S/ Jerry H. Z---
ROADWAY STANDARDS [301 ENT
ENGINEER PSE
FHWA

6

S.D.D. 15 B 1-8b

6

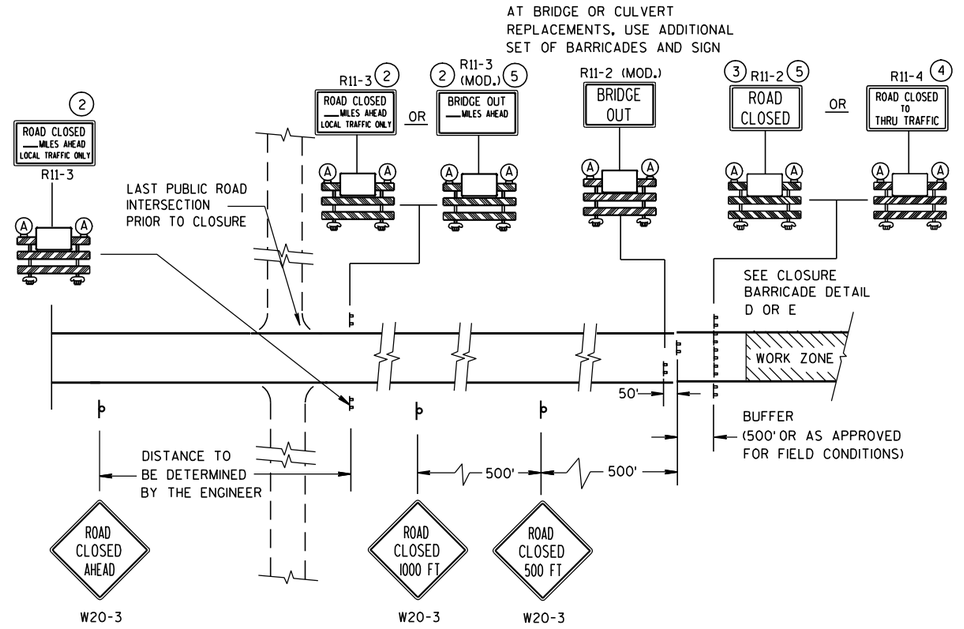
S.D.D. 15 B 1-8b



DETAIL A

MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE GREATER THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)

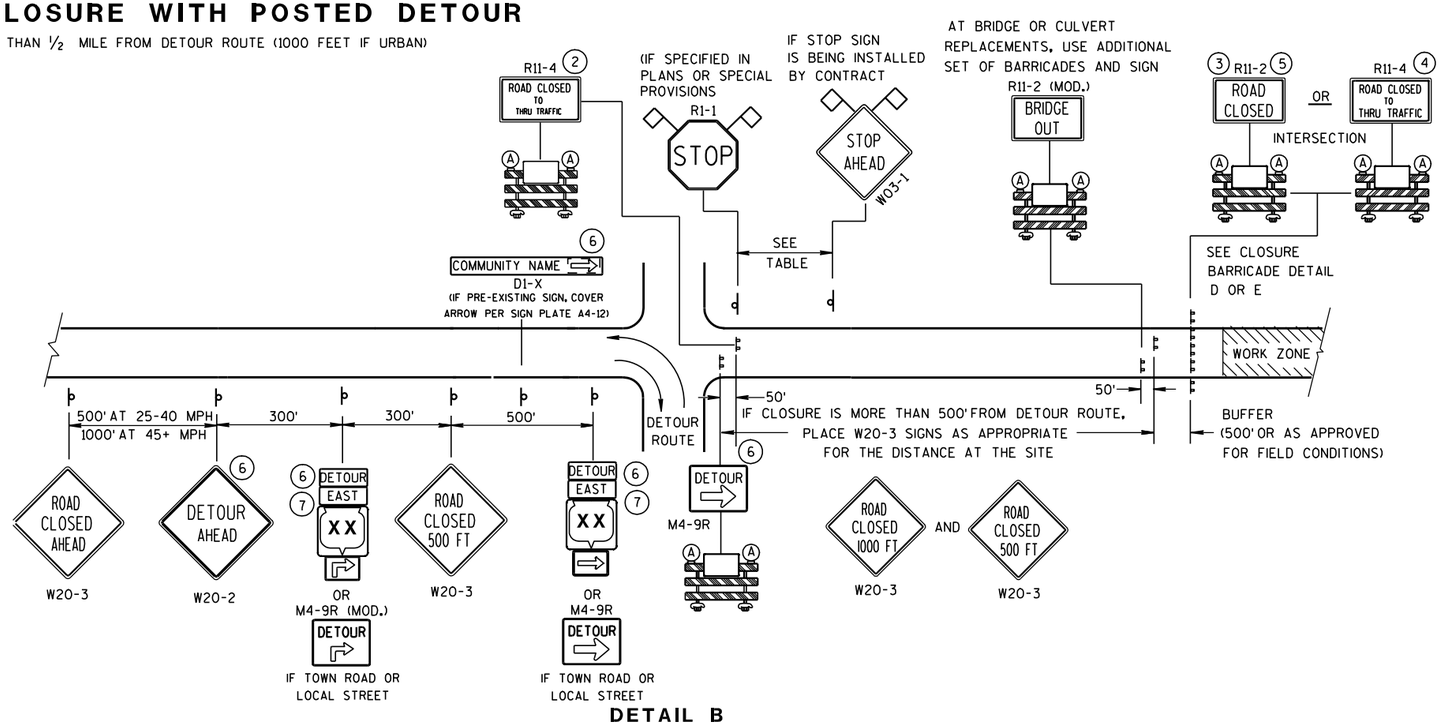


DETAIL C

MAINLINE CLOSURE, NO POSTED DETOUR

SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (FT)
25	200
30	200
35	350
40	350
45	500
50	550
55	750

SEE SDD 15C2-4b
FOR GENERAL NOTES
AND FOOTNOTES ① THROUGH ⑦



DETAIL B

MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE LESS THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)

LEGEND

- POST MOUNTED SIGN
- TYPE III BARRICADES
- (A) TYPE "A" LOW INTENSITY FLASHING WARNING LIGHT (FOR NIGHT USE)
- WORK ZONE
- DETOUR / EAST — M4-8 / M3-X
- XX — M1-4; COUNTY XX — M1-5A; XX — M1-6
- M05-1; M06-1
- FLAGS, 16" X 16" MIN., (ORANGE)

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

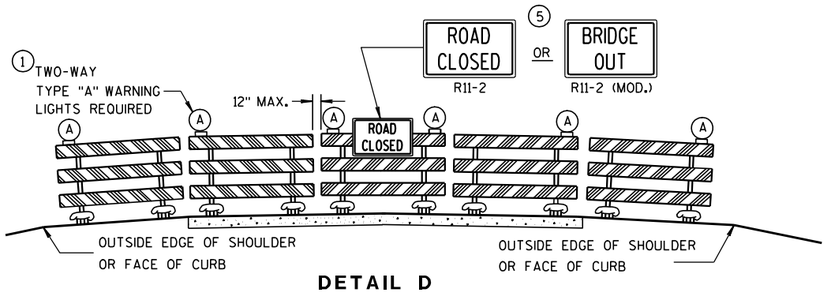
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

S.D.D. 15 C 2-4a

6

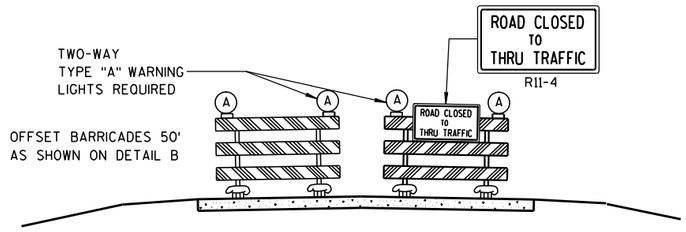
S.D.D. 15 C 2-4a



DETAIL D

ROAD CLOSURE BARRICADE DETAIL

APPROACH VIEW



DETAIL E

LANE CLOSURE BARRICADE DETAIL

APPROACH VIEW

SEE SDD 15C2-4a FOR LEGEND

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL D FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3, M4-9, R11-4 AND R10-61 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

THE REFLECTIVE SHEETING USED ON R11-2, R11-3, R11-4, R10-61 AND R1-1 SIGNS SHALL COMPLY WITH SUBSECTION 637.2.2.2 OF THE STANDARD SPECIFICATIONS.

"WO AND "MO" SIGNS ARE THE SAME AS "W" AND "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
- R11-2 SHALL BE 48" X 30".
- R11-3, R11-4 AND R10-61 SHALL BE 60" X 30".
- M4-9 SHALL BE 30" X 24".
- M3-X AND M4-8 SHALL BE 24" X 12". (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS.)
- M1-4, M1-5A, AND M1-6 SHALL BE 24" X 24". (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS.)
- M05-1 AND M06-1 SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS.)
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1-1 SHALL BE 36" X 36".

(1) TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8-FOOT LIGHT SPACING).

(2) THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT INTERSECTION.

(3) FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL D.

(4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE LANE CLOSURE BARRICADE DETAIL E.

(5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11-2 AND R11-3 SIGNS.

(6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.

(7) "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

9/16/03
DATE

/S/ Thomas N. N[illegible]
CHIEF SIGNS AND MAR[illegible]INEER

FHWA

PSE

6

S.D.D. 15 C 2-4b

6

S.D.D. 15 C 2-4b

THIS DRAWING PROVIDES GENERAL GUIDANCE ON TYPICAL DETOUR SIGN LAYOUT AND SPACING. SEE PROJECT DETOUR SIGNING SHEETS FOR SPECIFIC DETAILS FOR EACH PROJECT.

GENERAL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.

THE SPACING BETWEEN TRAFFIC CONTROL AND DETOUR SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE", SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

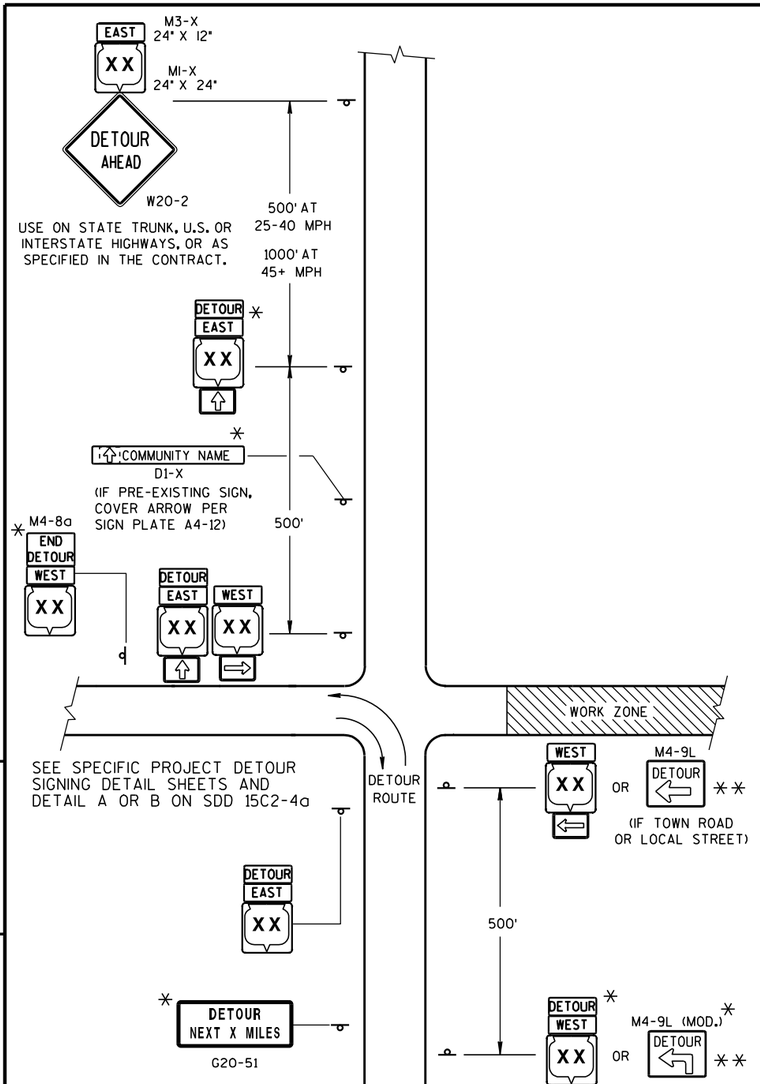
"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGN SIZES SHALL BE AS FOLLOWS:

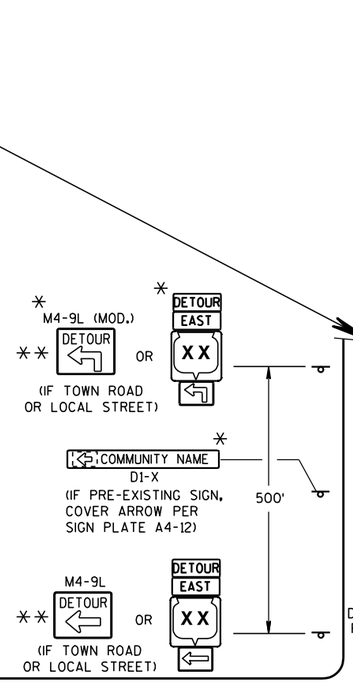
- M3-X AND M4-8 SHALL BE 24" X 12". (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS.)
- M1-4, M1-5A, AND M1-6 SHALL BE 24" X 24". (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS.)
- M05-1 AND M06-1 SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS.)
- M4-9 SHALL BE 30" X 24".
- M4-8a SHALL BE 24" X 18".
- G20-51 SHALL BE 60" X 24".
- W20-2 SHALL BE 48" X 48".
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

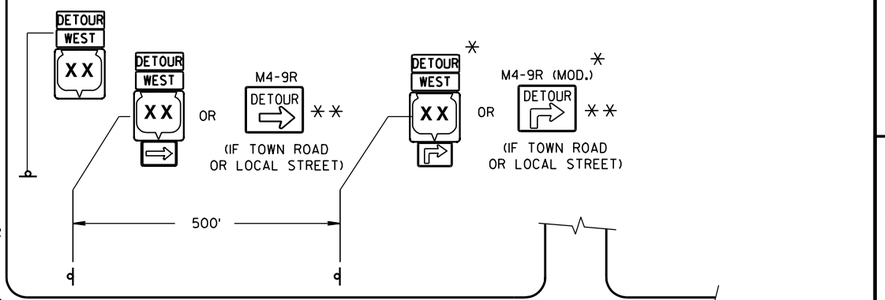
* OPTIONAL SIGNS. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS.

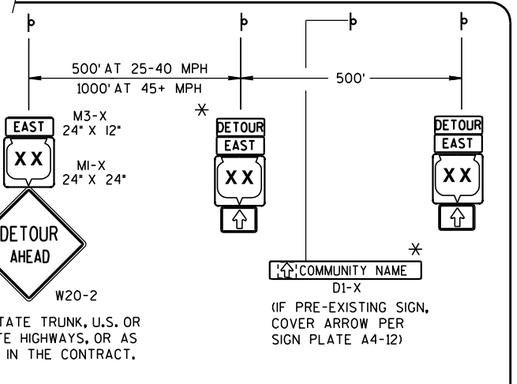
** FOR A TOWN ROAD OR LOCAL STREET DETOURED ONTO A STATE TRUNK HIGHWAY, PLACE A ROAD NAME PLAQUE ABOVE THE M4-9 SIGN AS SPECIFIED IN THE CONTRACT.

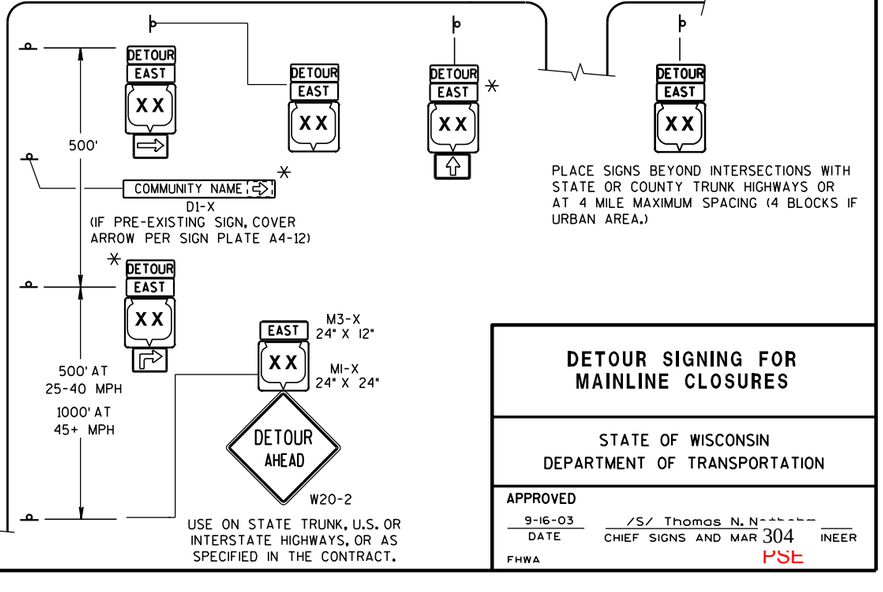


MATCH POINT









LEGEND

- POST MOUNTED SIGN
- WORK ZONE
- DETOUR EAST — M4-8 / M3-X
- XX OR COUNTY XX OR XX — M1-4 / M1-5A / M1-6
- MO5-1 OR MO6-1 OR MO6-1

DETAIL F

DETOUR SIGNING

DETOUR SIGNING FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

9-16-03 DATE — /S/ Thomas N. Nathan — CHIEF SIGNS AND MARKINGS ENGINEER

FHWA

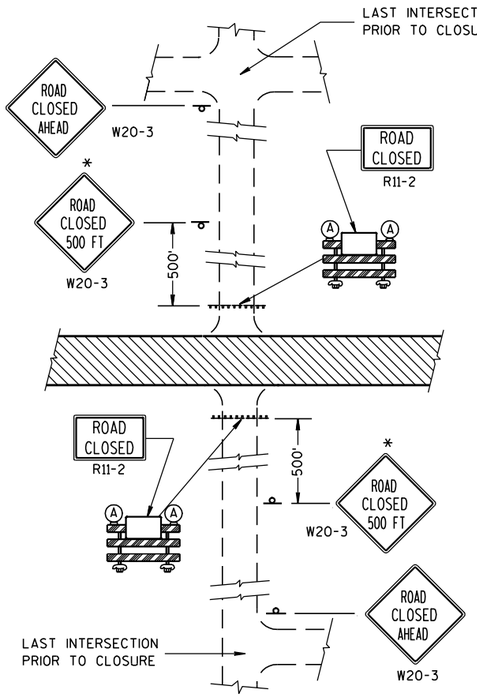
PSE

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S.D.D. 15 C 2-4c

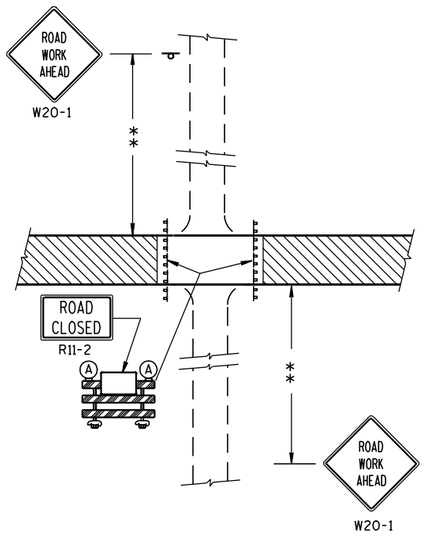
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S.D.D. 15 C 2-4c



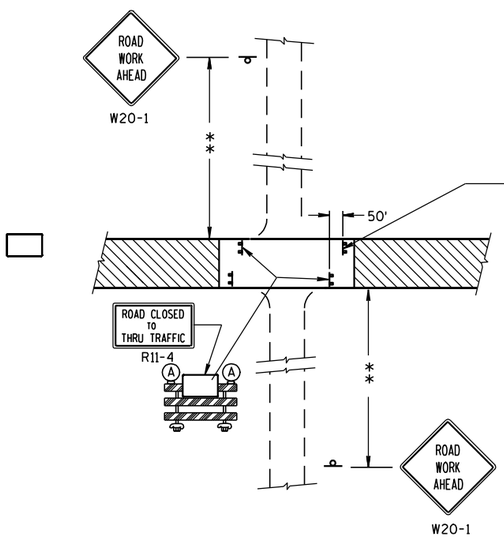
DETAIL 1

(NO ACCESS TO PROJECT)



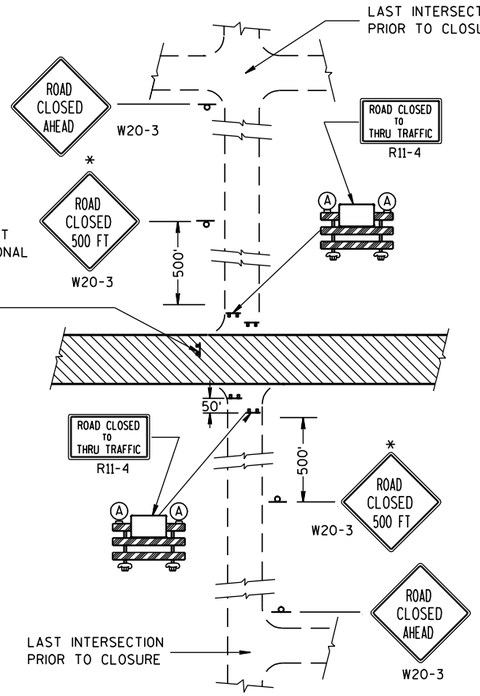
DETAIL 2

(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

/S/ Thomas N. N[illegible]
CHIEF SIGNS AND MAR[illegible] 305 INEER

FHWA

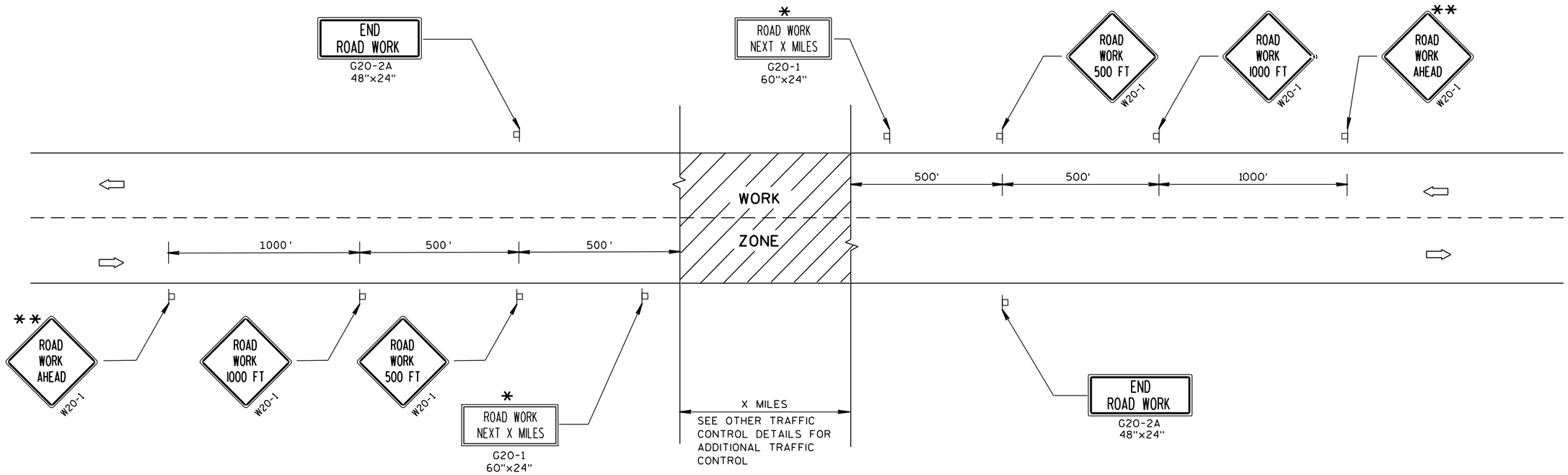
PSE

6

S.D.D. 15 C 3-1

6

S.D.D. 15 C 3-1



GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

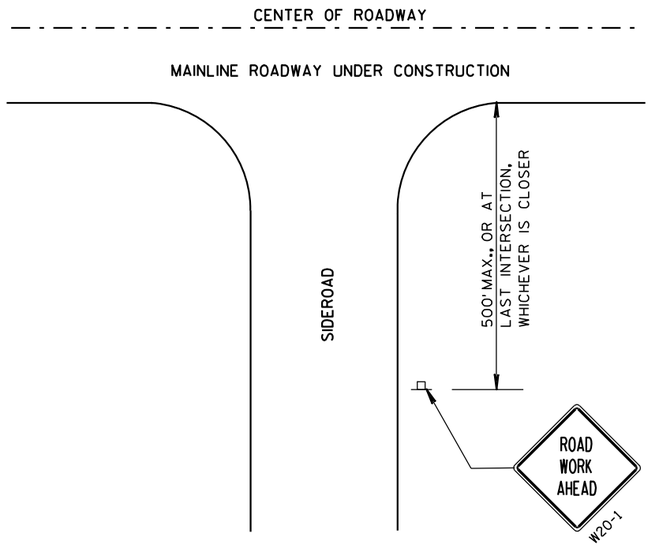
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IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

* OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

** PLACE ADDITIONAL W20-1 "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA OR SIGNING.

TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL



LEGEND

POST MOUNTED SIGN

DIRECTION OF TRAFFIC FLOW

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

5/23/00 DATE

/S/ Chester J. [illegible] CHIEF SIGNS AND MARK[illegible]NEER

FHWA

306

PSE

6

S.D.D. 15 C 4-1

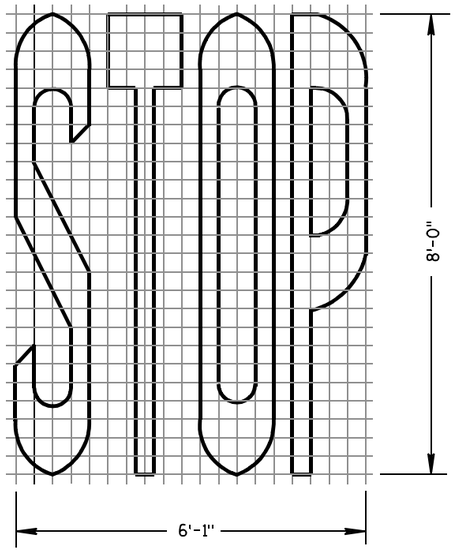
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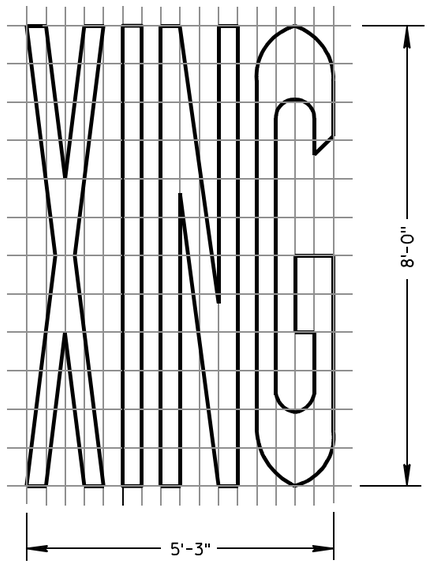
S.D.D. 15 C 4-1

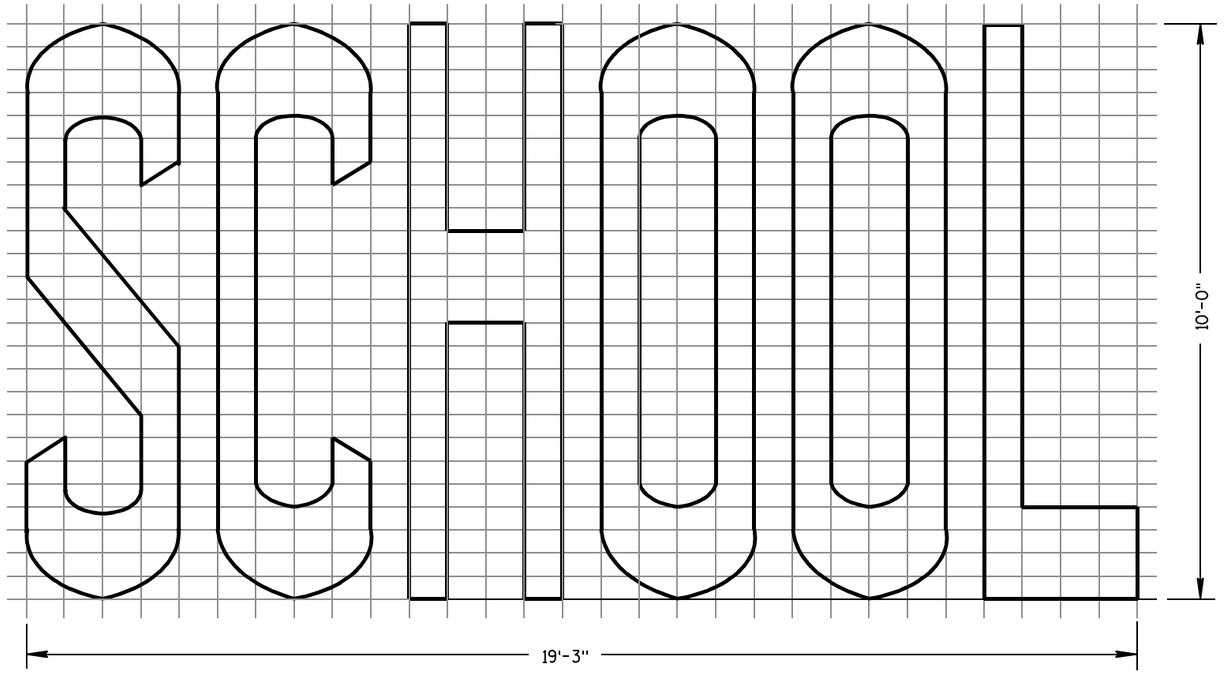
GENERAL NOTES

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.

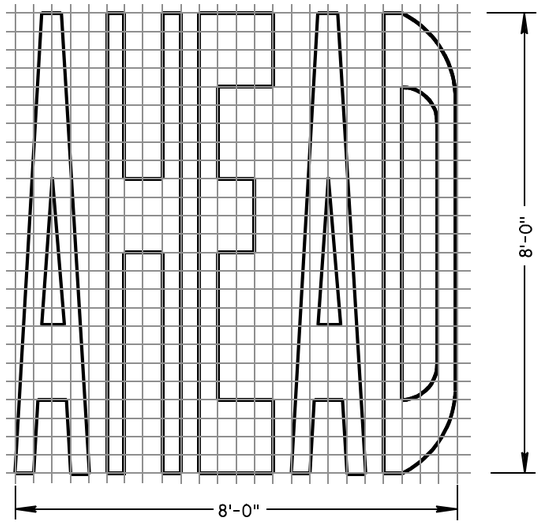
ALL LETTERS, ARROWS AND SYMBOLS SHALL BE IN CONFORMANCE WITH REQUIREMENTS INCLUDED IN "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKING" BOOK BY THE FEDERAL HIGHWAY ADMINISTRATION. ALL LETTERS, ARROWS AND SYMBOLS SHALL BE WHITE AND REFLECTORIZED. SMALL DIFFERENCES IN DIMENSIONS WITHIN THE TOLERANCES OF THAT BOOK ARE ACCEPTABLE.

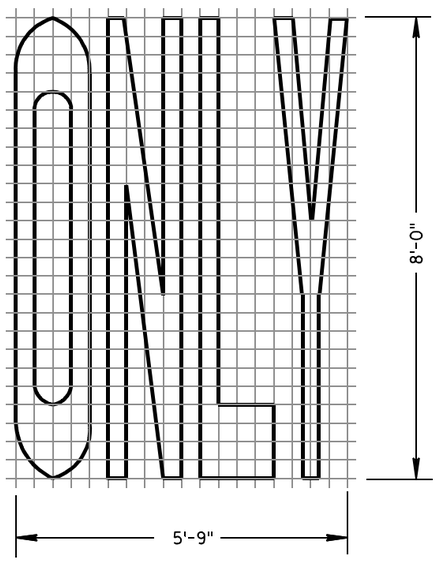


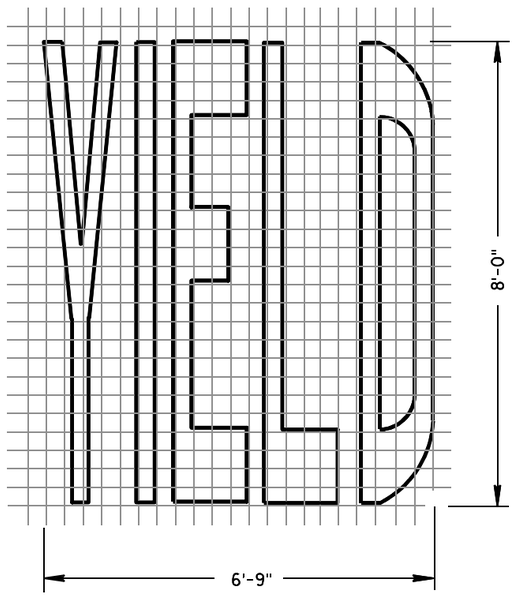


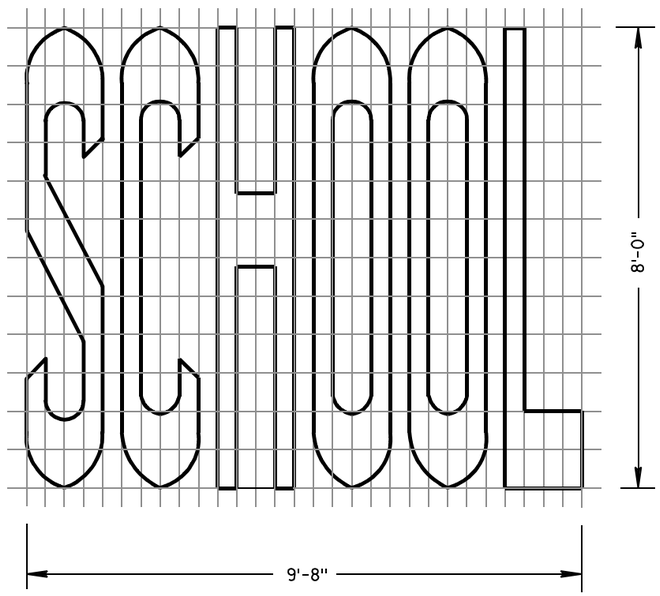


TWO-LANE









SINGLE-LANE

PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7-1-11 DATE — /S/ Thomas N. Nothohm STATE TRAFFIC ENGINEER — IGN

FHWA

307

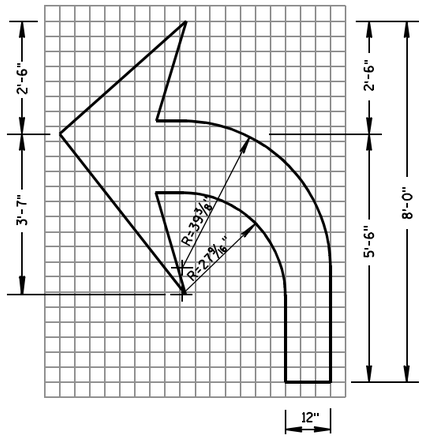
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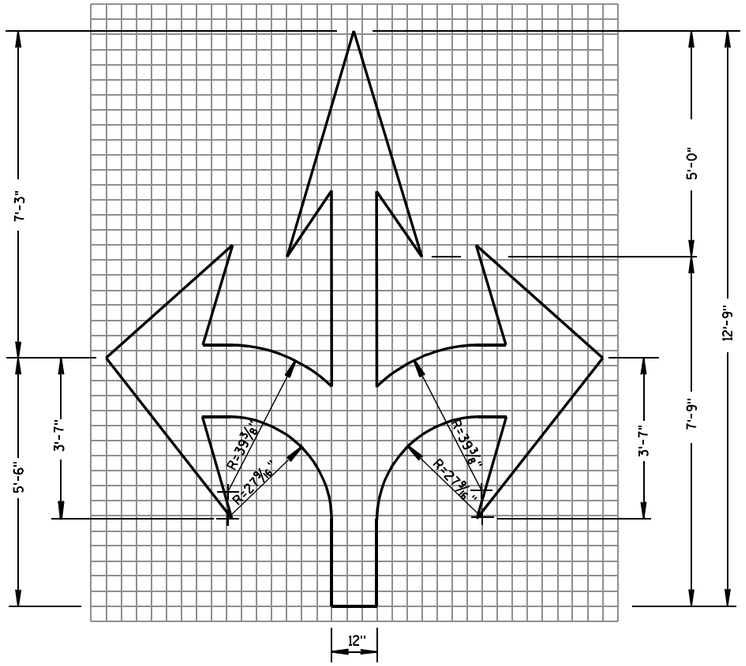
S.D.D. 15 C 7-12b

6

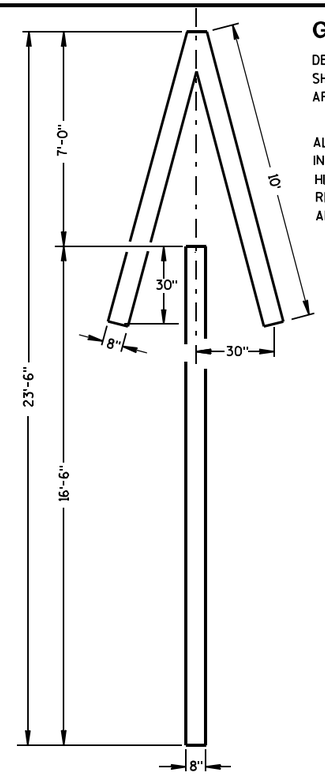
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TYPE 2



TYPE 6

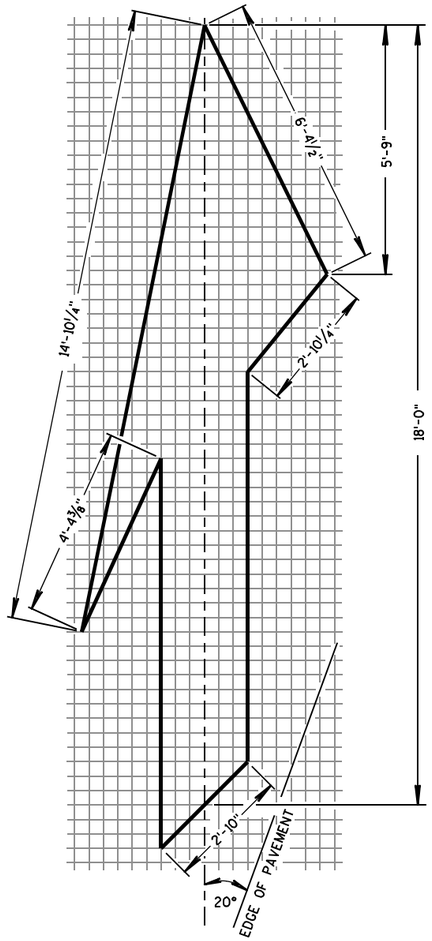


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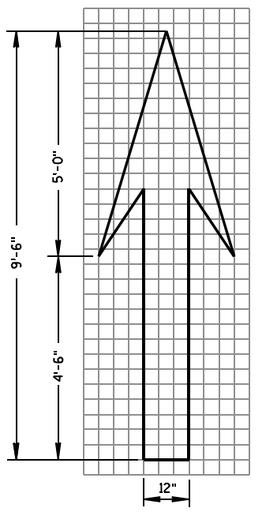
GENERAL NOTES

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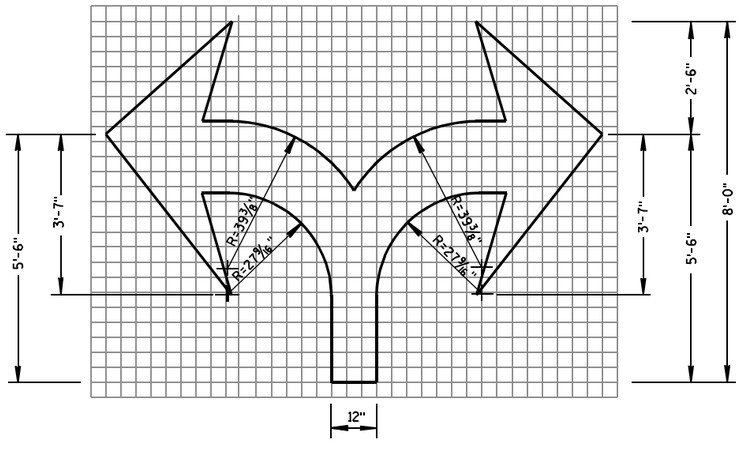
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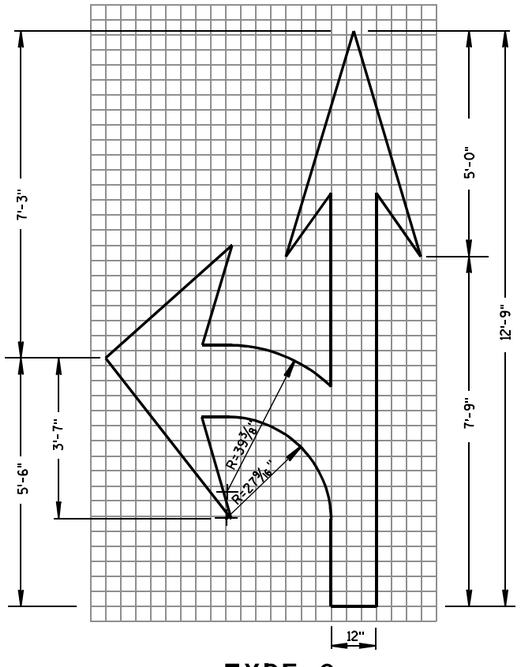
TYPE 5 LANE DROP ARROW



TYPE 1



TYPE 7



TYPE 3

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/1/11 — DATE

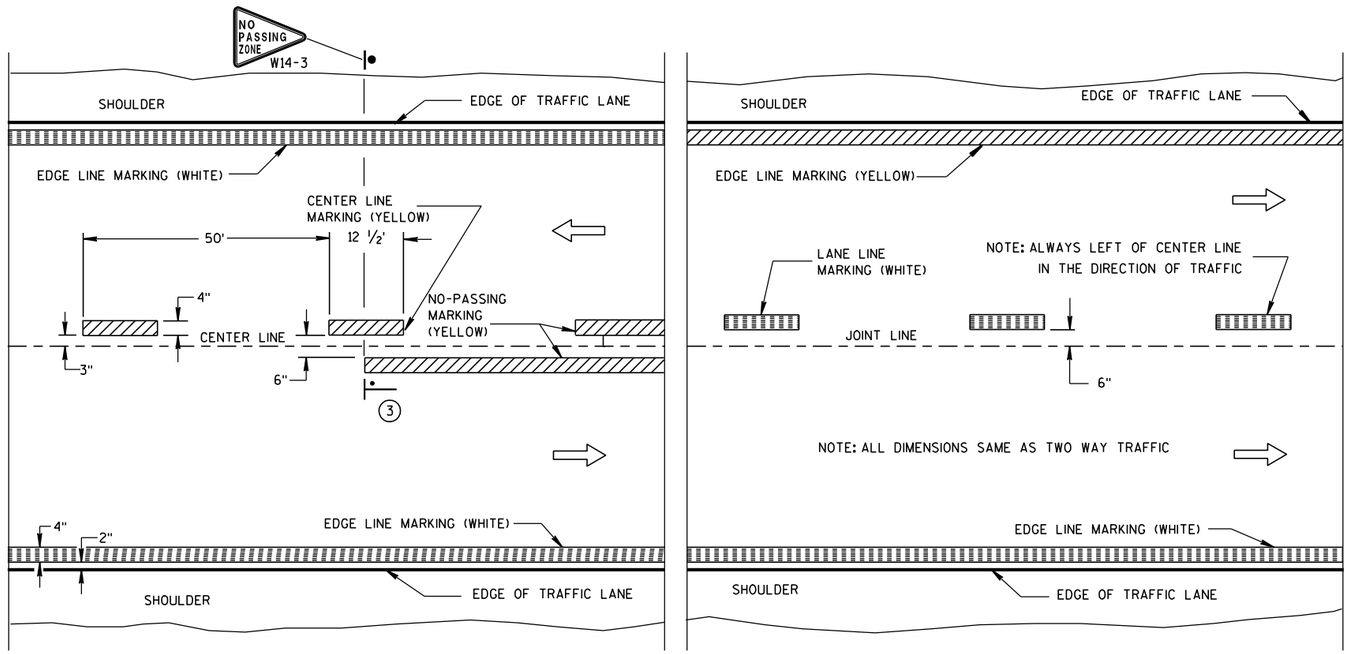
/S/ Thomas N. Nothdurft — STATE TRAFFIC ENGINEER

FHWA

PSE

6

S.D.D. 15 C 7-12c



TWO WAY TRAFFIC

ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING

GENERAL NOTES

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

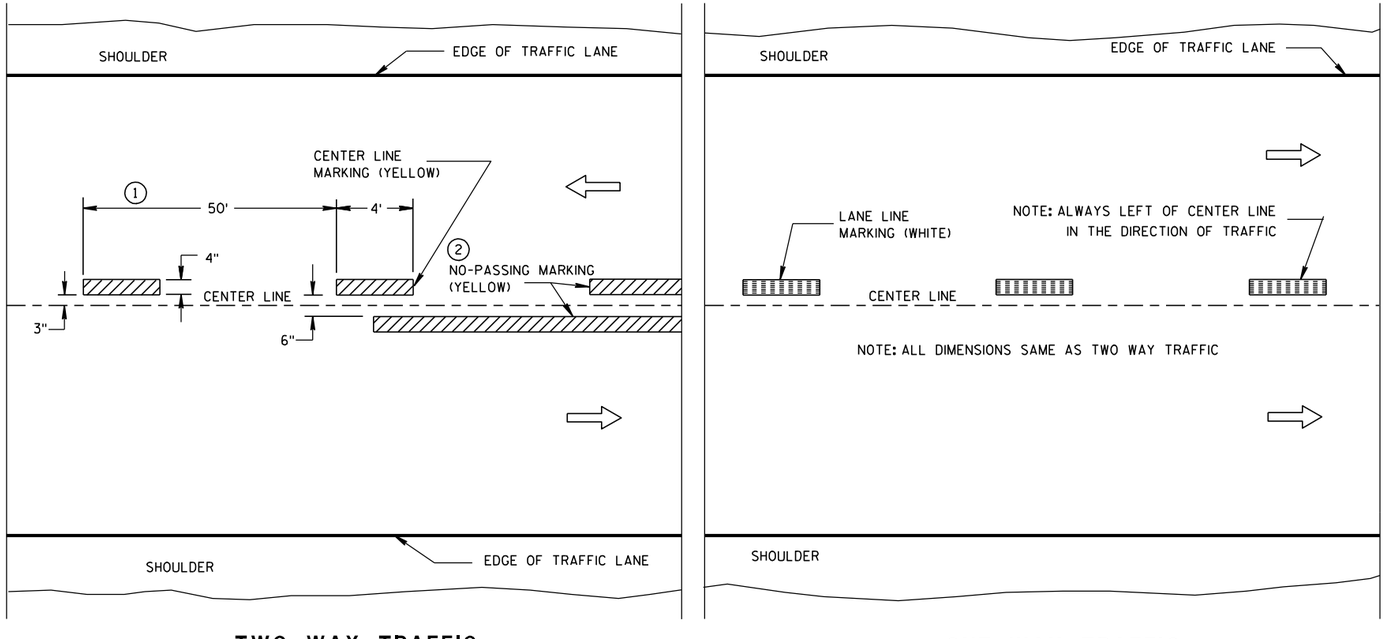
1. HALF CYCLE LENGTHS (25'±) WITH 2' MINIMUM STRIPE LENGTHS SHALL BE PROVIDED ON ROADWAYS (INCLUDING TEMPORARY TRAVELED WAYS) WITH REVERSE CURVATURE, CURVATURE OF OVER 5 DEGREES OR WHEN DIRECTED BY THE ENGINEER TO MARK UNUSUAL ALIGNMENT OF THE TRAVELED WAY.

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

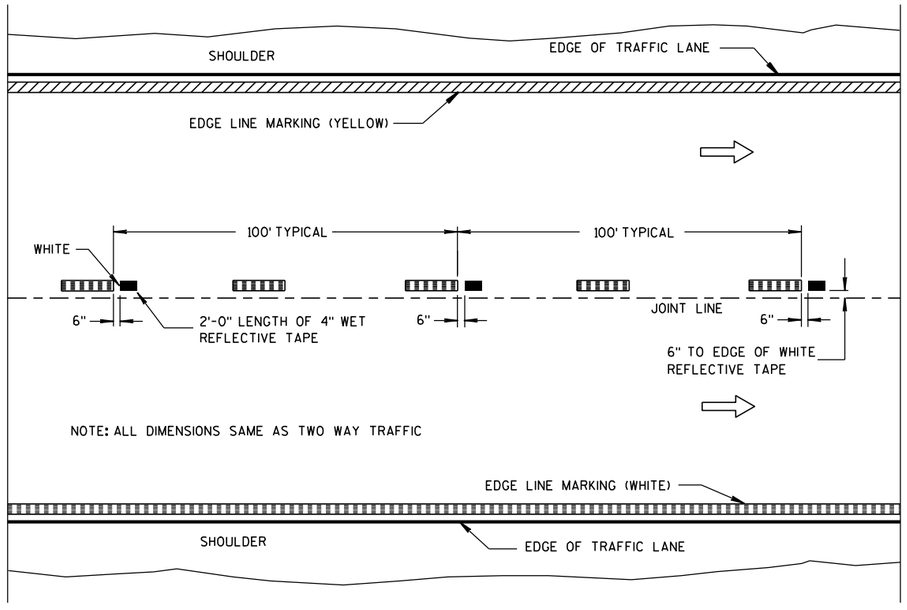


TWO WAY TRAFFIC

ONE WAY TRAFFIC

TEMPORARY (INTERMEDIATE) PAVEMENT MARKING

(SHOWS CYCLE FOR TEMPORARY CENTER LINE OR TEMPORARY LANE LINE MARKING)



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
6-23-11 DATE
/S/ Thomas N. Notbohm
STATE TRAFFIC ENGINEER
FHWA

309

PSE

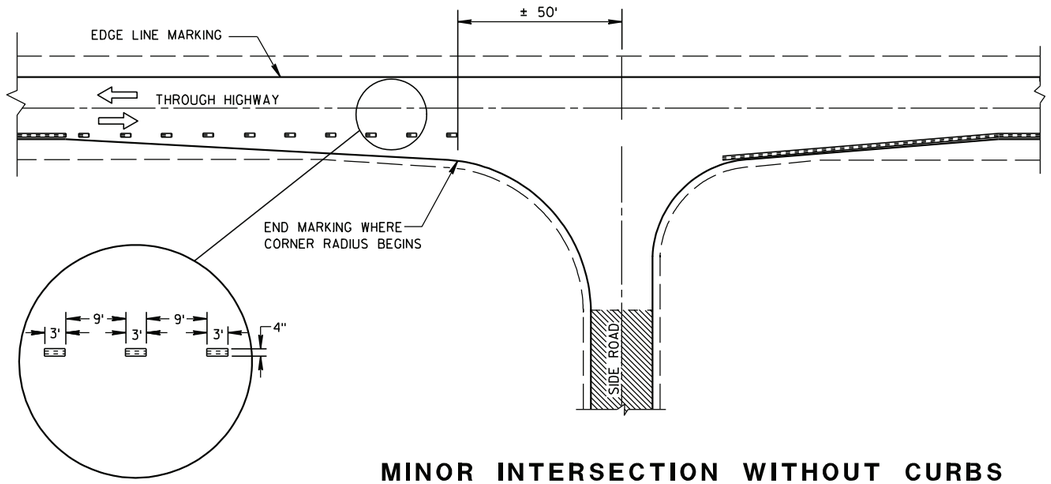
6

S.D.D. 15 C 8-14a

6

S.D.D. 15 C 8-14a

10301177-00008RDAPERM



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.

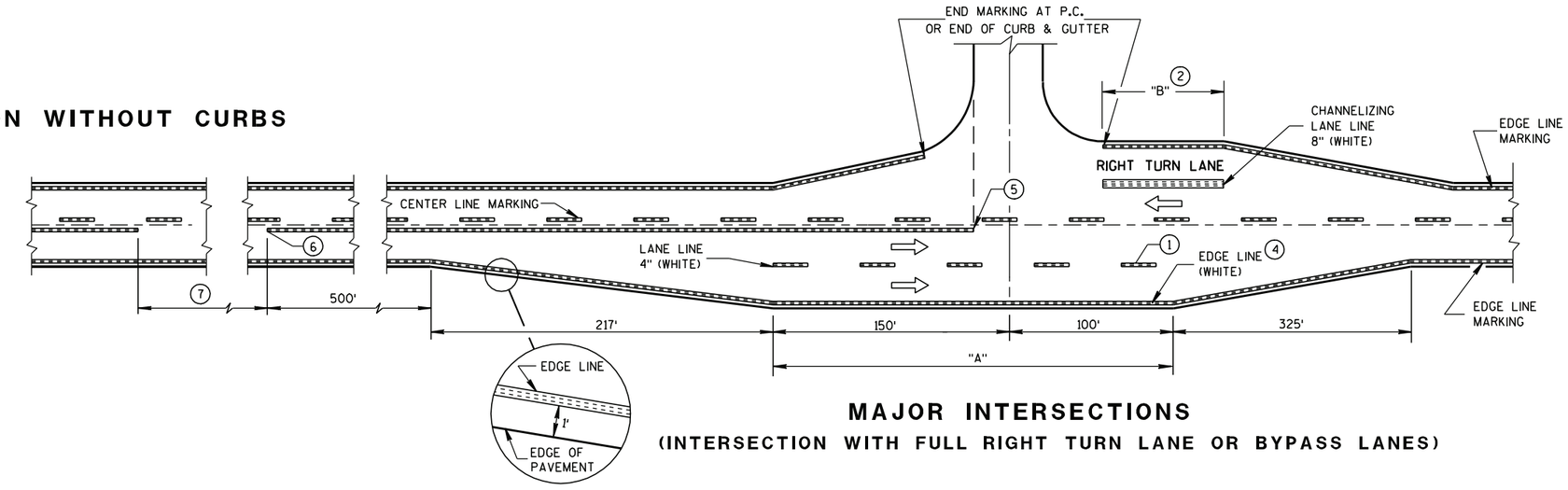
(7) IF THE DISTANCE BETWEEN 2 SUCCESSIVE NO-PASSING ZONES IS LESS THAN THE MINIMUM DISTANCE BETWEEN ZONES, CONNECT THE 2 ZONES.

(8) 3' LINE 9' GAP, EXCEPT RETRACE THE EXISTING LINE - GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.

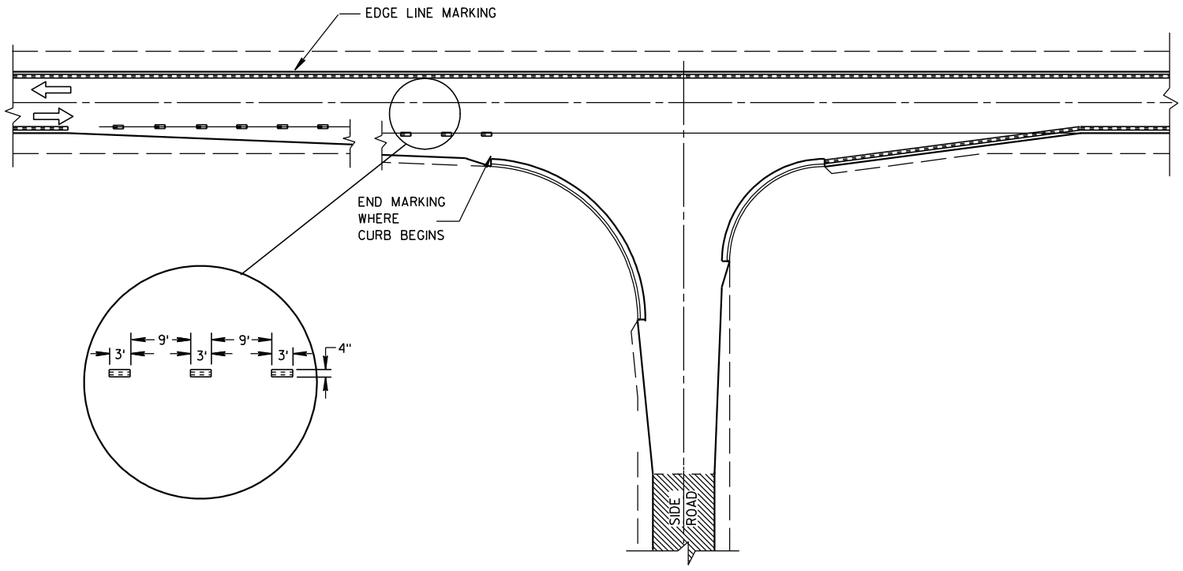
ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

(7)

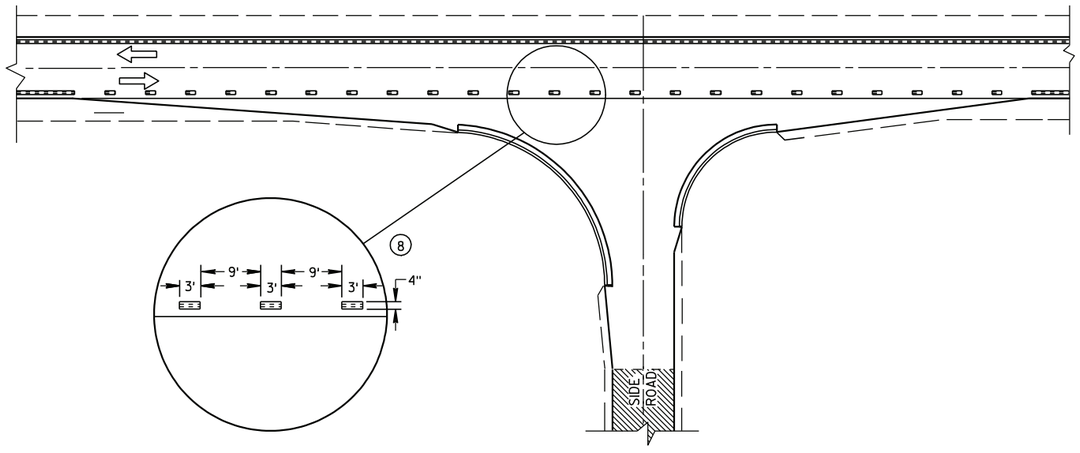
POSTED SPEED (MPH)	MINIMUM DISTANCE BETWEEN ZONES (FEET)
25 - 30	528
35 - 40	528
45 - 50	686
55	792



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

PSE

6

S.D.D. 15 C 8-14b

6

S.D.D. 15 C 8-14b

SYMBOLS

- TRAFFIC CONTROL DRUM
- POST MOUNTED SIGN
- DIRECTION OF TRAFFIC FLOW
- ARROW BOARD IN CAUTION MODE

GENERAL NOTES

THIS DETAIL IS TYPICAL FOR CLOSING THE RIGHT SHOULDER. FOR CLOSING THE LEFT SHOULDER, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR DIVIDED ROADWAYS WITH ANY NUMBER OF TRAVEL LANES.

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

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

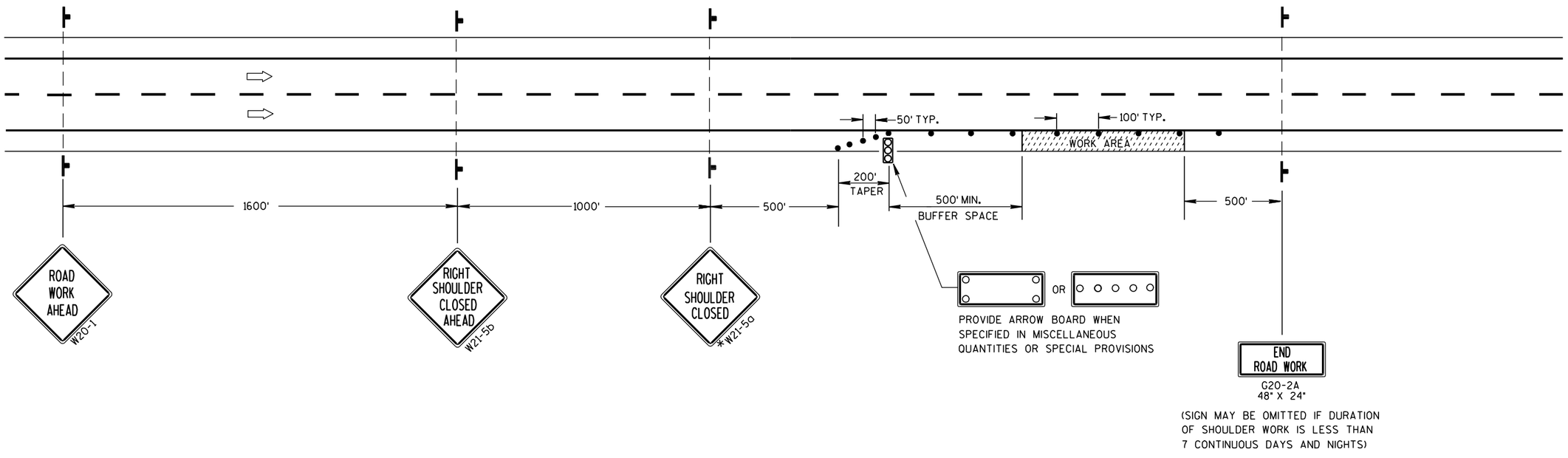
SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

CHANNELIZING DEVICES PLACED ADJACENT TO THE WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

*FOR SHORT DURATION SHOULDER WORK OF LESS THAN ONE HOUR, THE W21-5a SIGN MAY BE OMITTED.



TRAFFIC CONTROL SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

5/23/00
DATE

/S/ Chester J Sasse
CHIEF SIGNS AND MARKING ENGINEER

FHWA

PSE

6

S.D.D. 15 D 27-1

6

S.D.D. 15 D 27-1

GENERAL NOTES

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

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY DISTRICT TRAFFIC UNIT.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

W20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE WORK AREA IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT. G20-2A SIGNS MAY ALSO BE OMITTED IF DURATION OF WORK IS LESS THAN 7 CONTINUOUS DAYS AND NIGHTS.

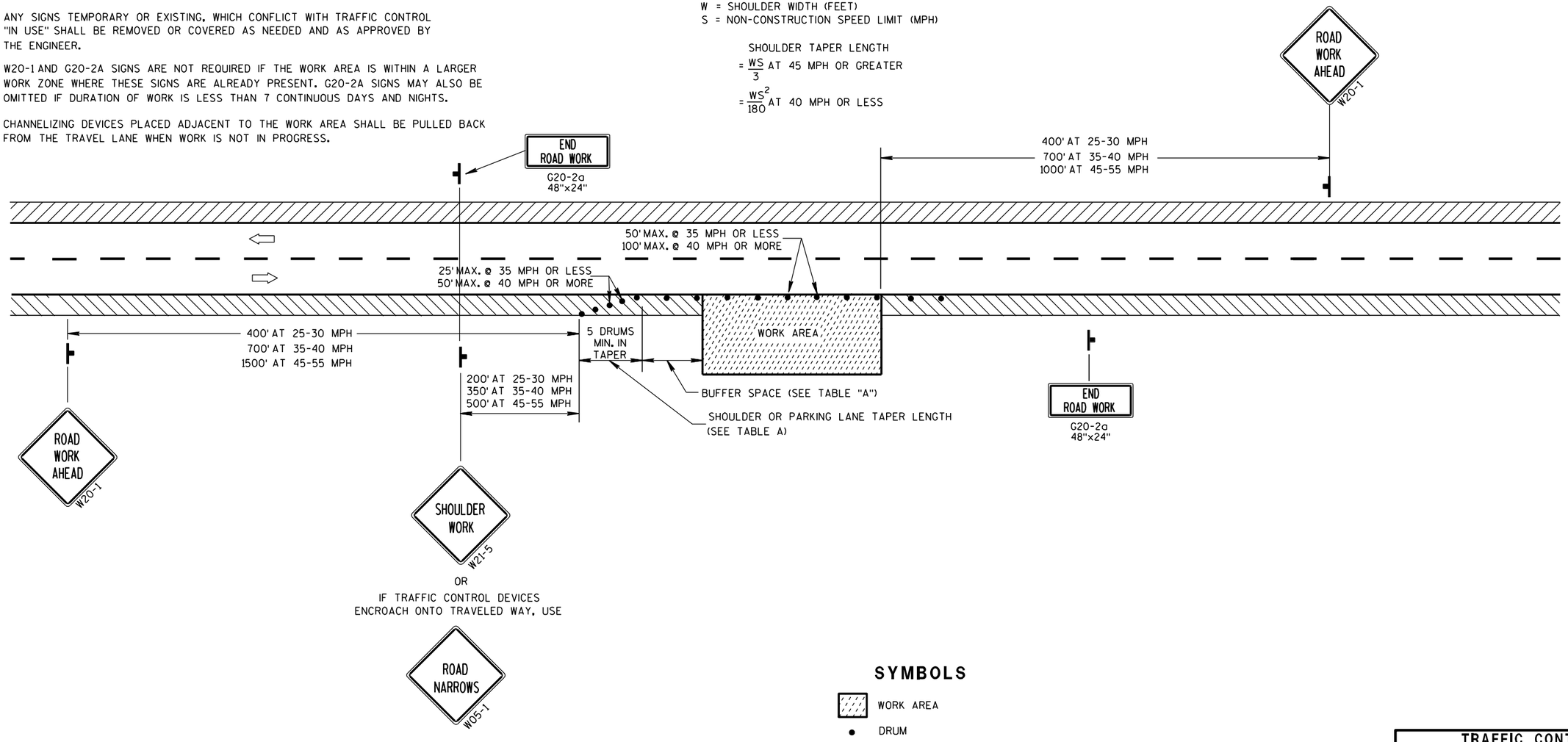
CHANNELIZING DEVICES PLACED ADJACENT TO THE WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

TABLE A

S \ W	SHOULDER TAPER LENGTH (FEET) 4	6	8	10	BUFFER SPACE (FEET)
30	20	30	40	50	85
35	30	45	55	70	120
40	40	55	75	90	170
45	60	90	120	150	220
50	70	100	135	170	280
55	75	110	150	185	335

W = SHOULDER WIDTH (FEET)
S = NON-CONSTRUCTION SPEED LIMIT (MPH)

SHOULDER TAPER LENGTH
$= \frac{WS}{3}$ AT 45 MPH OR GREATER
$= \frac{WS^2}{180}$ AT 40 MPH OR LESS



SYMBOLS

- WORK AREA
- DRUM
- POST MOUNTED SIGN
- DIRECTION OF TRAFFIC FLOW

TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
5/23/00 DATE
/S/ Chester J. [illegible]
CHIEF SIGNS AND MARK[illegible]NNEER
FHWA

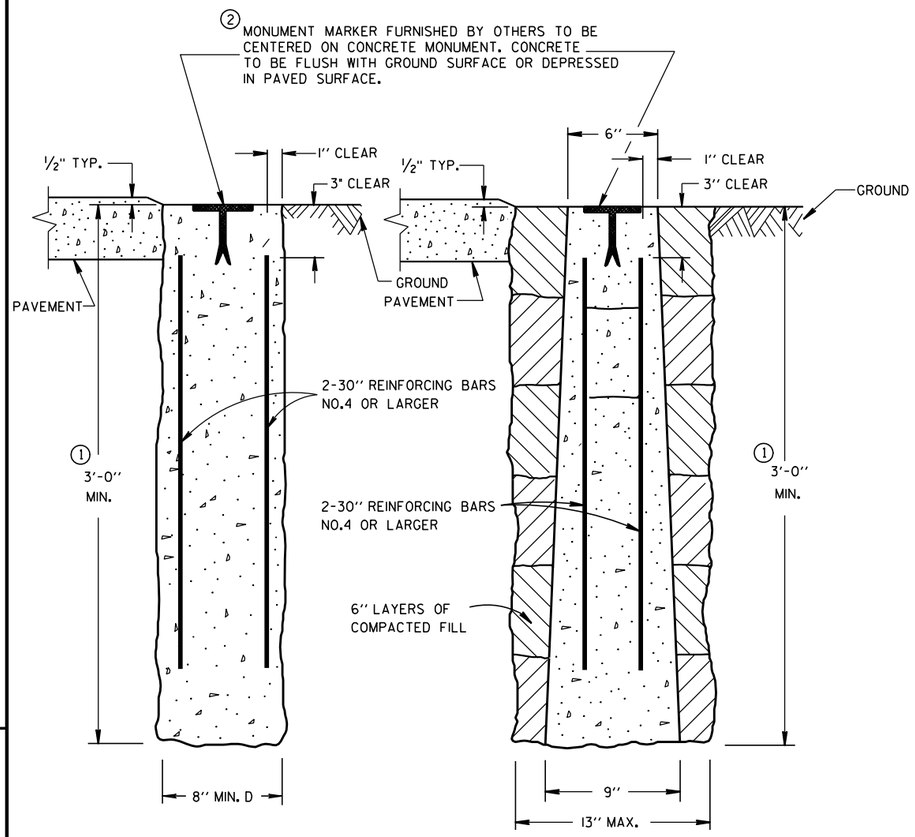
PSE

6

S.D.D. 15 D 28-1

6

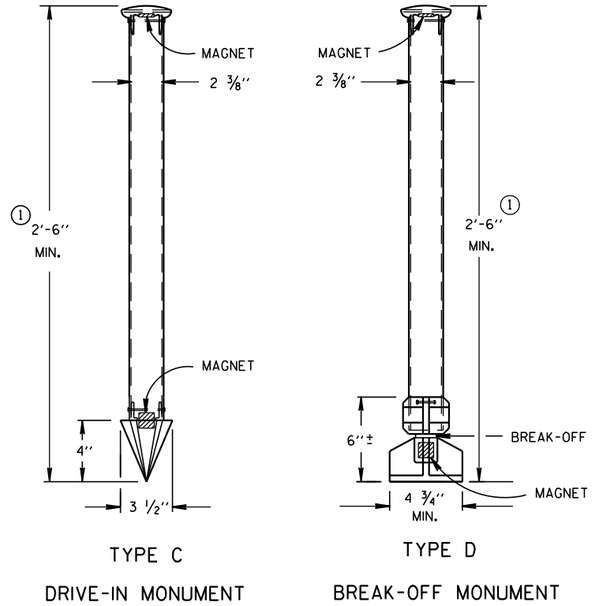
S.D.D. 15 D 28-1



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.

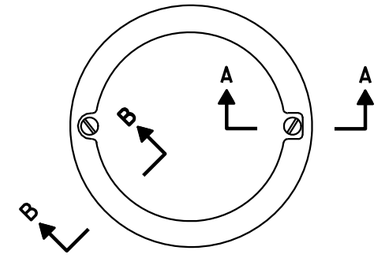
ALUMINUM MONUMENTS AND MONUMENT COVERS SHALL BE MADE FROM AN ALUMINUM AND MAGNESIUM ALLOY AS DETERMINED BY THE MANUFACTURER.

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.

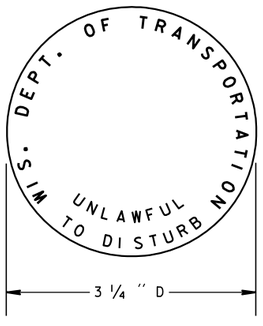
MONUMENT SHALL BE CAST-IN-PLACE CONCRETE UNLESS PRECAST CONCRETE OR ALUMINUM MONUMENTS ARE SPECIFIED IN THE CONTRACT OR PERMITTED BY THE ENGINEER.

① MINIMUM LENGTH SHALL BE 4'-0" FOR MONUMENTS INSTALLED IN PAVED AREAS.

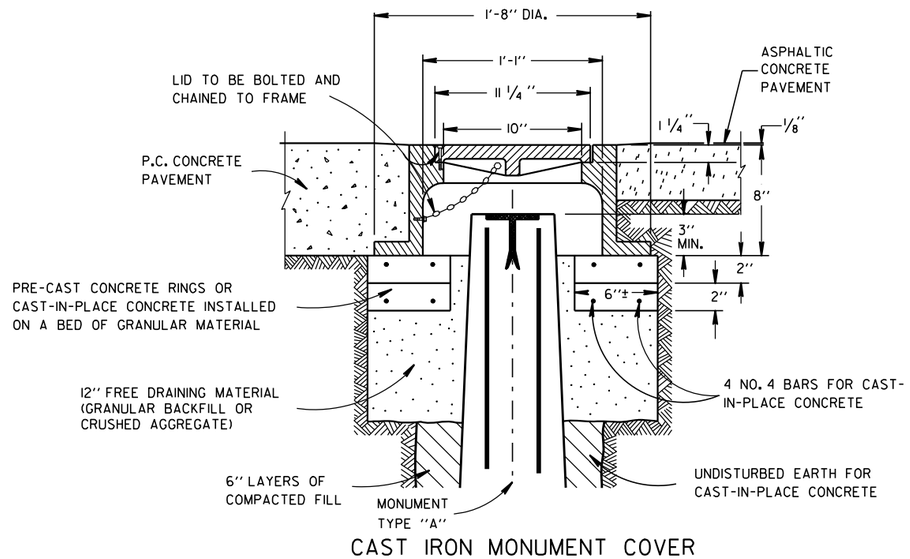
② AN OFFICIAL COUNTY MONUMENT MARKER SUPPLIED BY A COUNTY MAY BE REQUIRED FOR SOME SECTION CORNERS AND WITNESS MONUMENTS INSTEAD OF THIS WIS DOT MARKER.



TOP VIEW

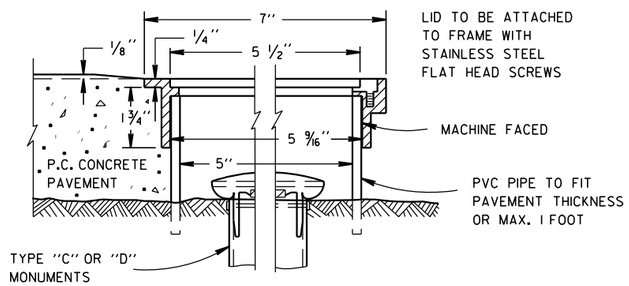


② WIS DOT MONUMENT MARKER LOGO FOR TYPES "A", "C" & "D"



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 MOUNMENTS AND COVERS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

9/22/1999 DATE

/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

PSE

6

S.D.D. 16 A 1-6

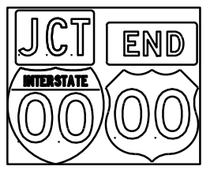
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S.D.D. 16 A 1-6

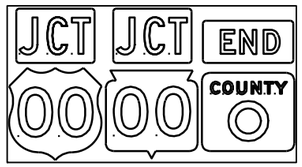
TYPICAL ASSEMBLIES



J1-1



J1-2



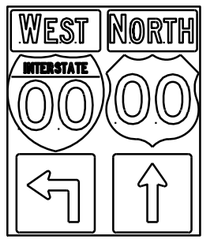
J1-3



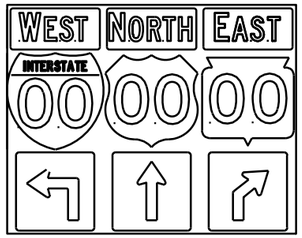
JV



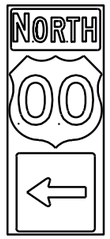
J2-1



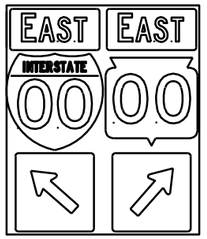
J2-2



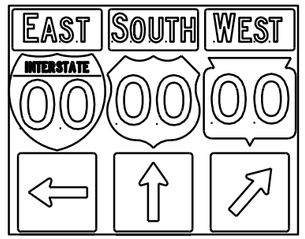
J2-3



J3-1



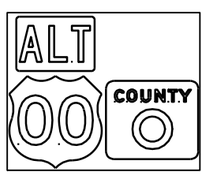
J3-2



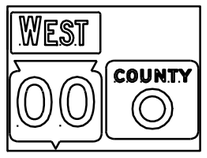
J3-3



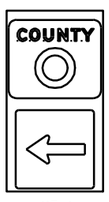
J4-1



J4-2



J4-2



J13-1



J12-1



J32-1



J33-1



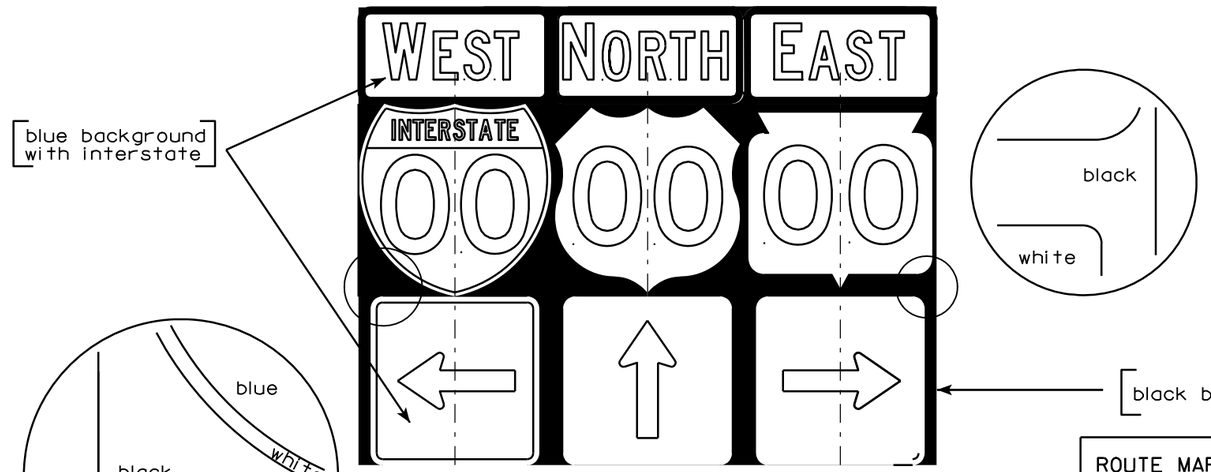
J23-1



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

PROJECT NO:

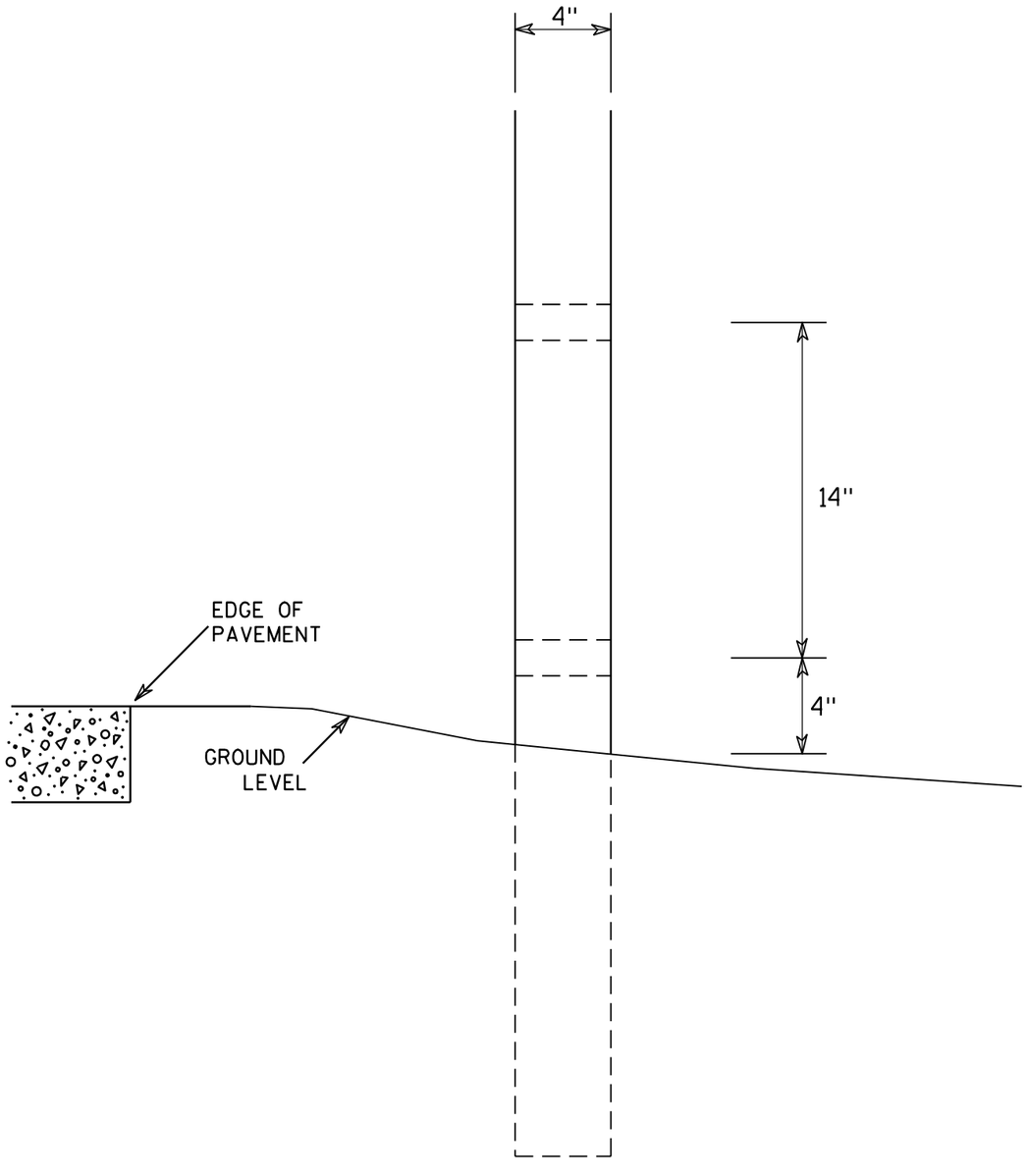
SHEET NO: 314 E

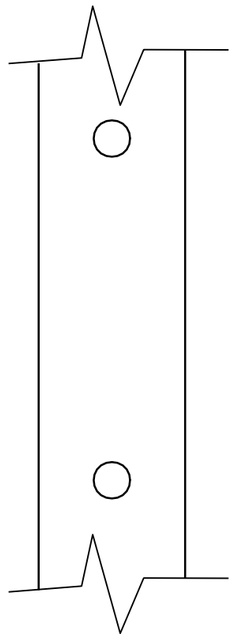
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WISDOT/CADDS SHEET 42

7

7





SIDE VIEW

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

7

7

4 X 6 WOOD POST MODIFICATIONS

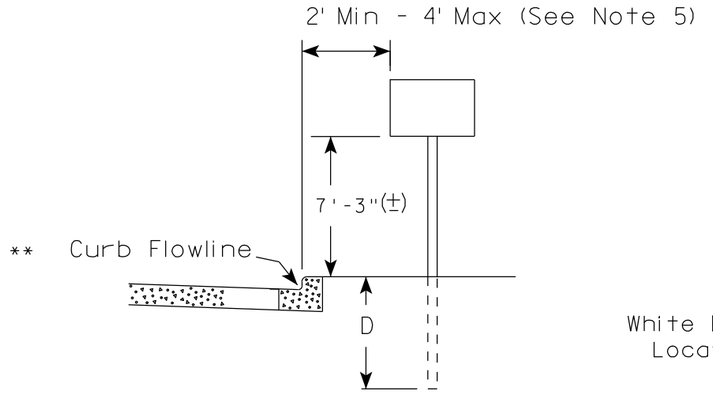
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang
for State Traffic Engineer

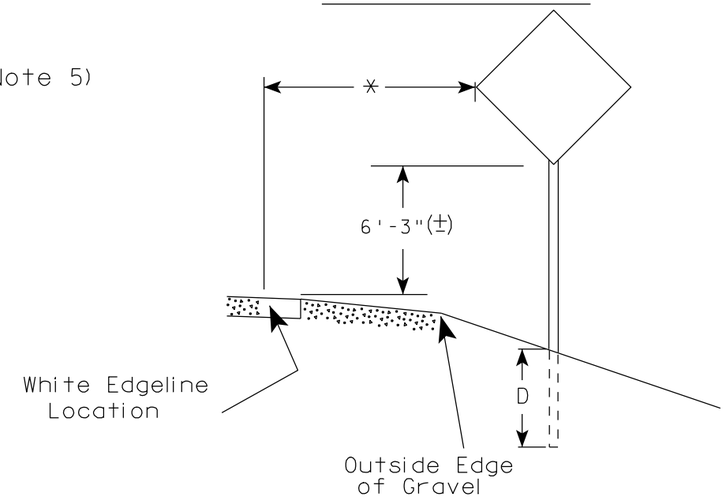
DATE 3/27/97 PLATE NO. A4-11.2

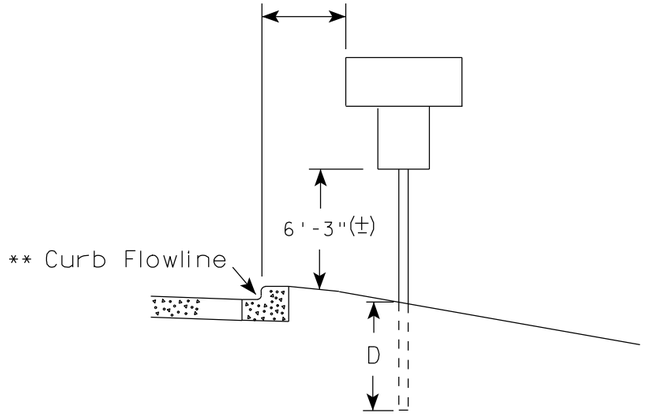
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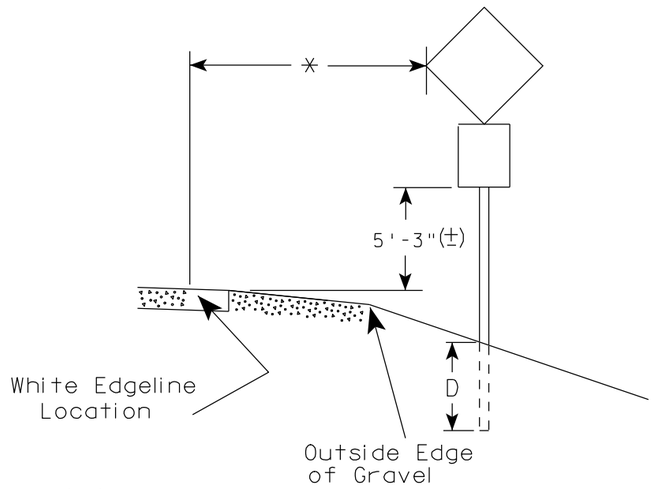
URBAN AREA



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 (R6-4B), 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'

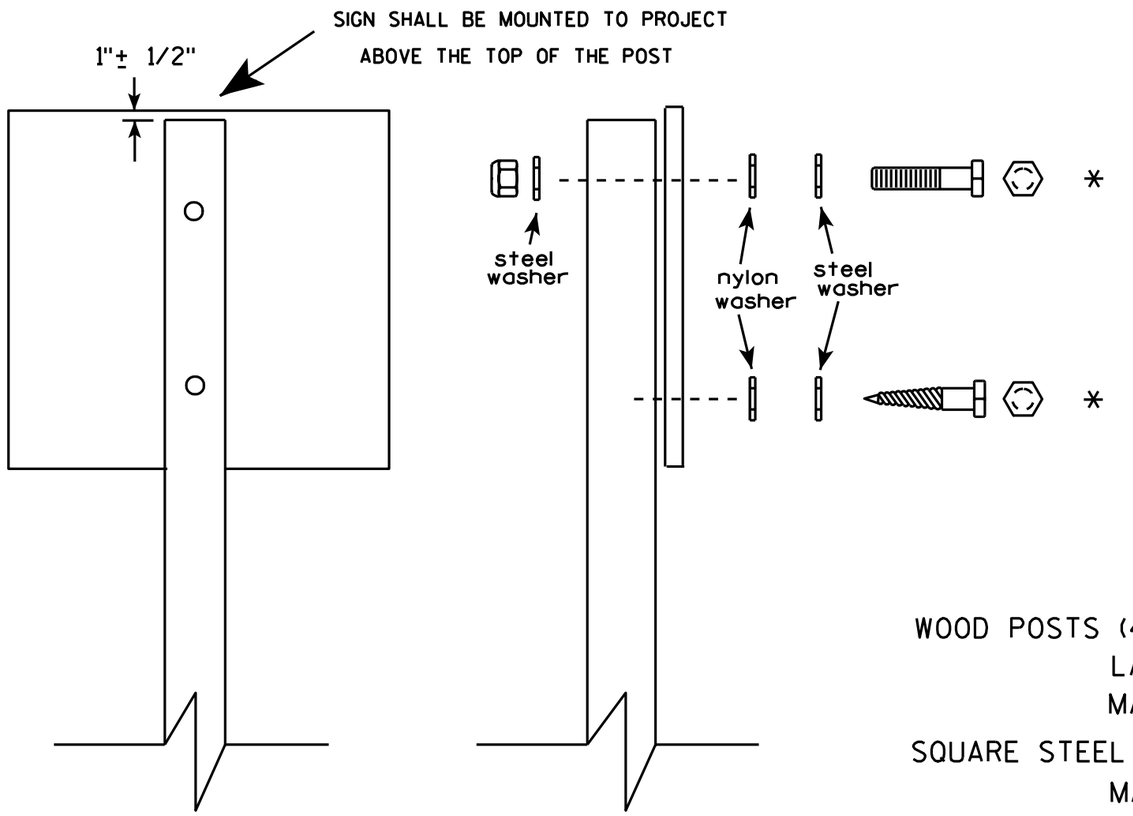
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/21/2011 PLATE NO. A4-3.16

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 316 HSL	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

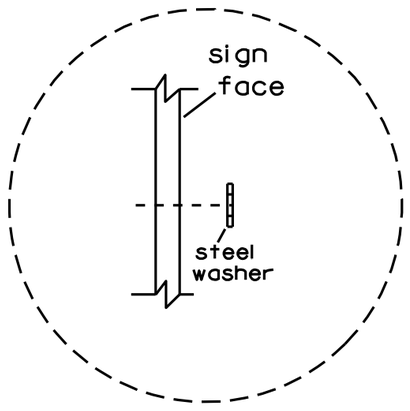
b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

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

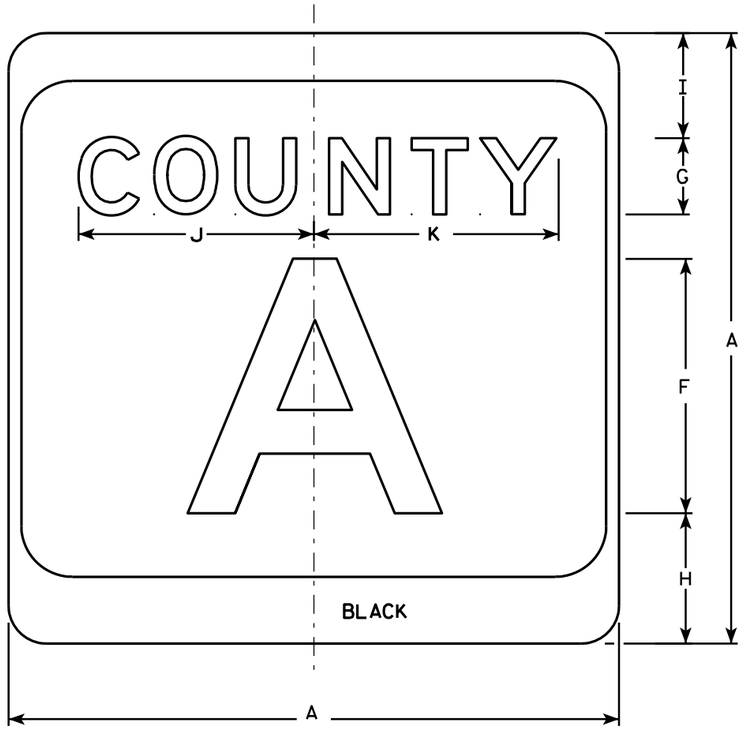
DATE 3/23/10 PLATE NO. A4-8.7

PROJECT NO:

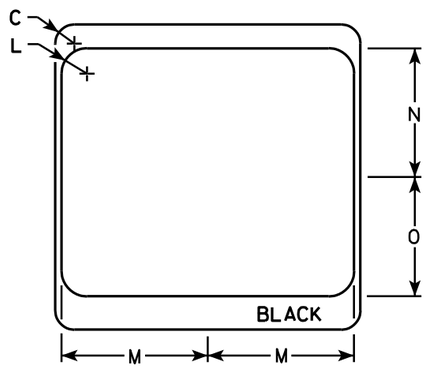
SHEET NO: 317 E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\A48.DGN PLOT DATE : 23-MAR-2010 10:15 PLOT BY : ditjph

WISDOT/CADDS SHEET 42

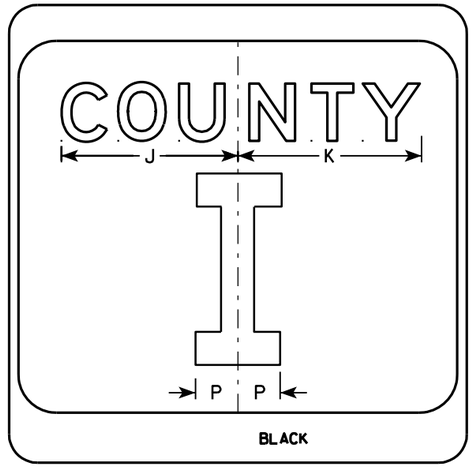


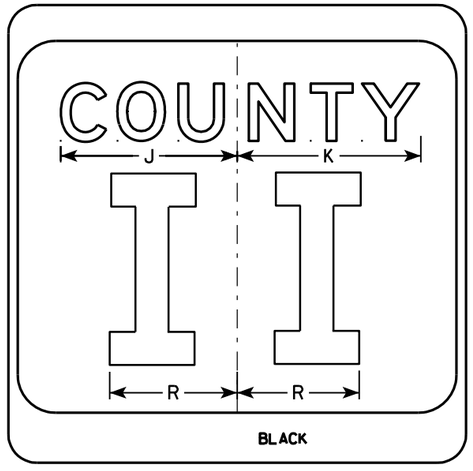
M1-5A



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 appropriate letters & optically center to achieve proper balance.
7. Permanent Signs
   Background - Type H Reflective
   Detour or temporary Signs
   Background - Reflective





SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		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	2 1/4		6 5/8									4.0
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	3 3/8		10									9.0
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	3 3/8		10									9.0
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	3 3/8		10									9.0

CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

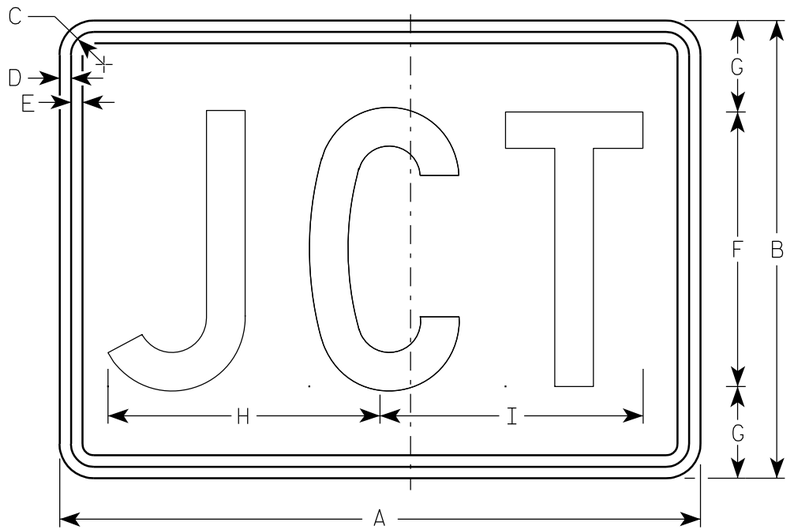
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/27/11 PLATE NO. M1-5A.8

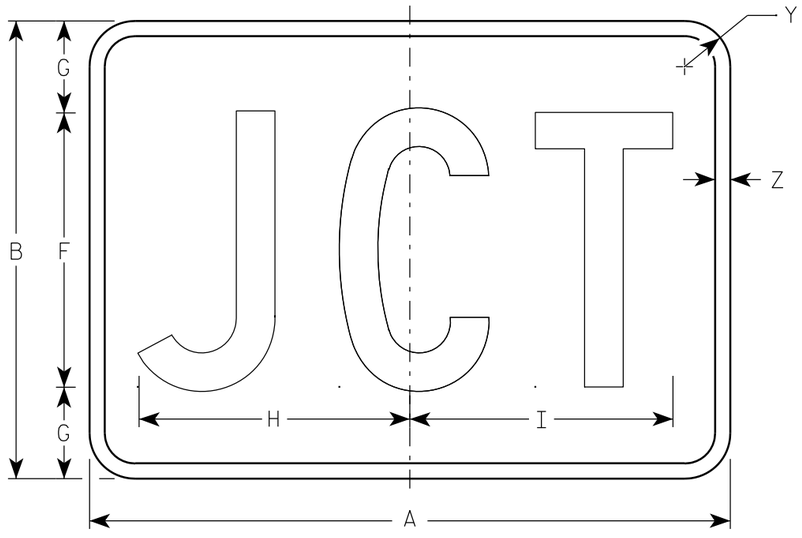
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 318	E

7

7



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

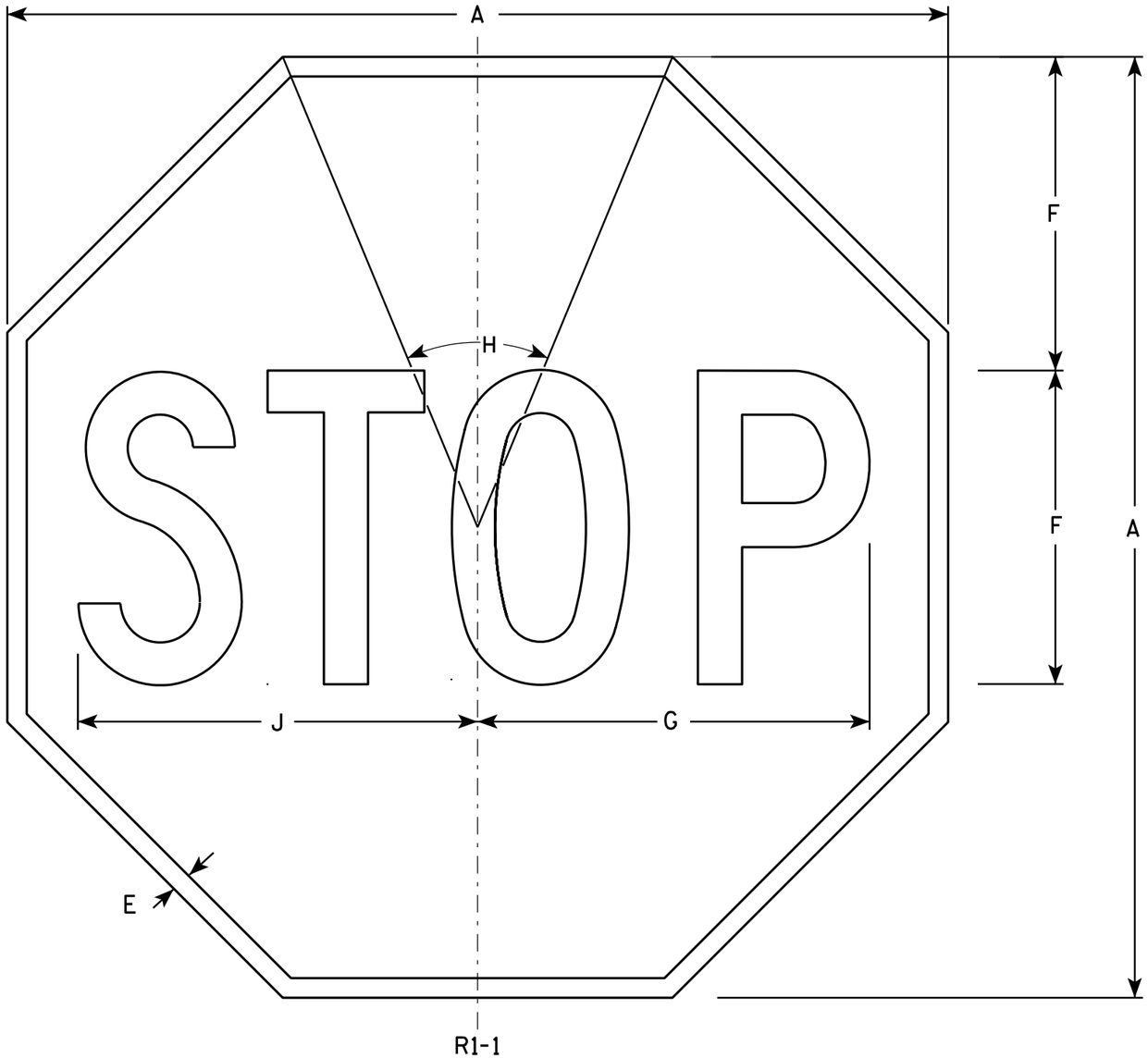
STANDARD SIGN
M2-1

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: 319	E



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - C

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24				3/8	8	10	45°		10 1/4																	3.31
2S	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2M	36				3/4	12	15	45°		15 3/8																	7.46
3	36				3/4	12	15	45°		15 3/8																	7.46
4	48				1	16	20	45°		20 1/2																	13.25
5	48				1	16	20	45°		20 1/2																	13.25
6	18				3/8	6	7 3/4	45°		7 3/4																	1.86
7	12				1/4	4	5	45°		5 1/8																	0.78

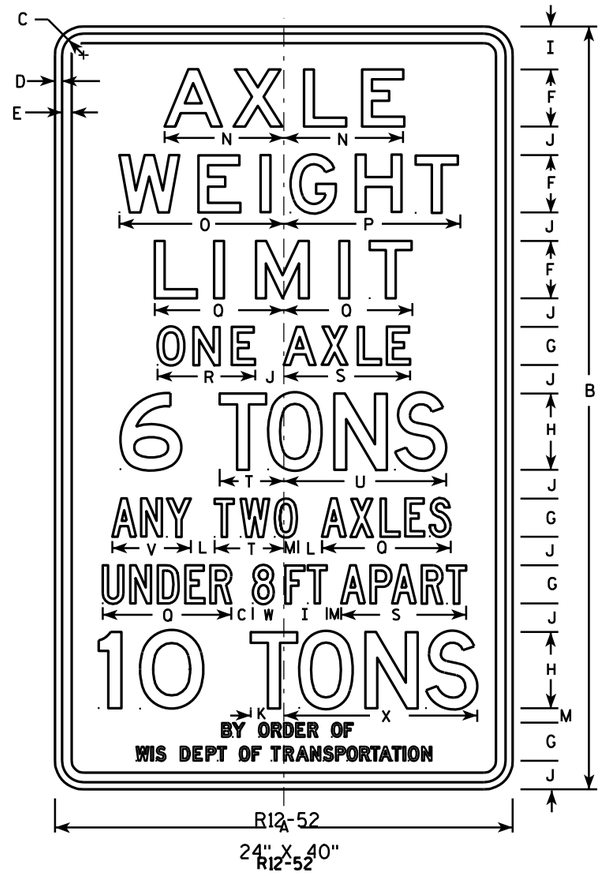
STANDARD SIGN
R1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

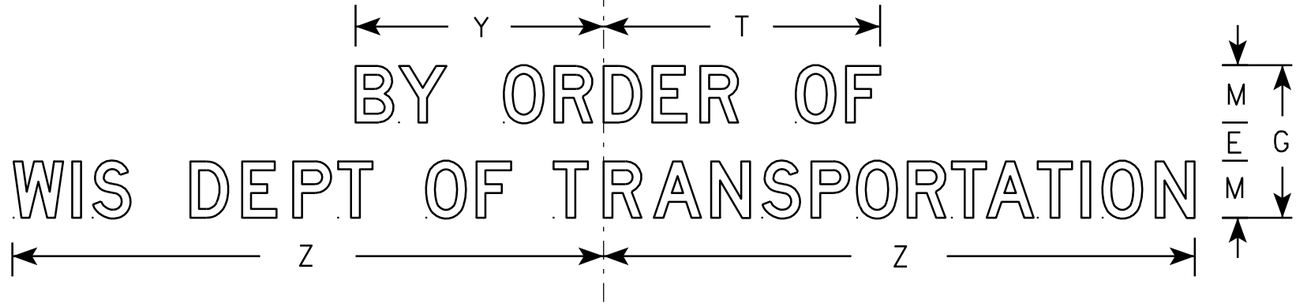
DATE 12/03/10 PLATE NO. R1-1.12

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 320	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 - see note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1, 2 & 3 are Series E
   Lines 4, 9 & 10 are Series D
   Lines 6 & 7 are Series C
   Lines 5 & 8 - Numerals are Series E
   "Tons" is Series D
   Line 8, for other than a numeral 1 and one other full numeral use Series D numerals.
6. Substitute appropriate numerals on lines 5 & 8 and optically adjust spacing to achieve proper balance.
7. Substitute name of county or town on County Trunk and Town Highways respectively. Communiuty name on City or Village Streets including Connecting Highways is optional.



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	40	1 1/8	3/8	1/2	3	2	4	2 1/4	1 1/2	1 3/4	1 1/4	3/4	6 1/4	8 5/8	9 1/4	6 3/4	5 1/8	6 5/8	3 5/8	8 1/2	4 1/8	1 5/8	10 1/8	3 1/4	7 3/4	6.67
2M	24	40	1 1/8	3/8	1/2	3	2	4	2 1/4	1 1/2	1 3/4	1 1/4	3/4	6 1/4	8 5/8	9 1/4	6 3/4	5 1/8	6 5/8	3 5/8	8 1/2	4 1/8	1 5/8	10 1/8	3 1/4	7 3/4	6.67
3																											
4																											
5																											

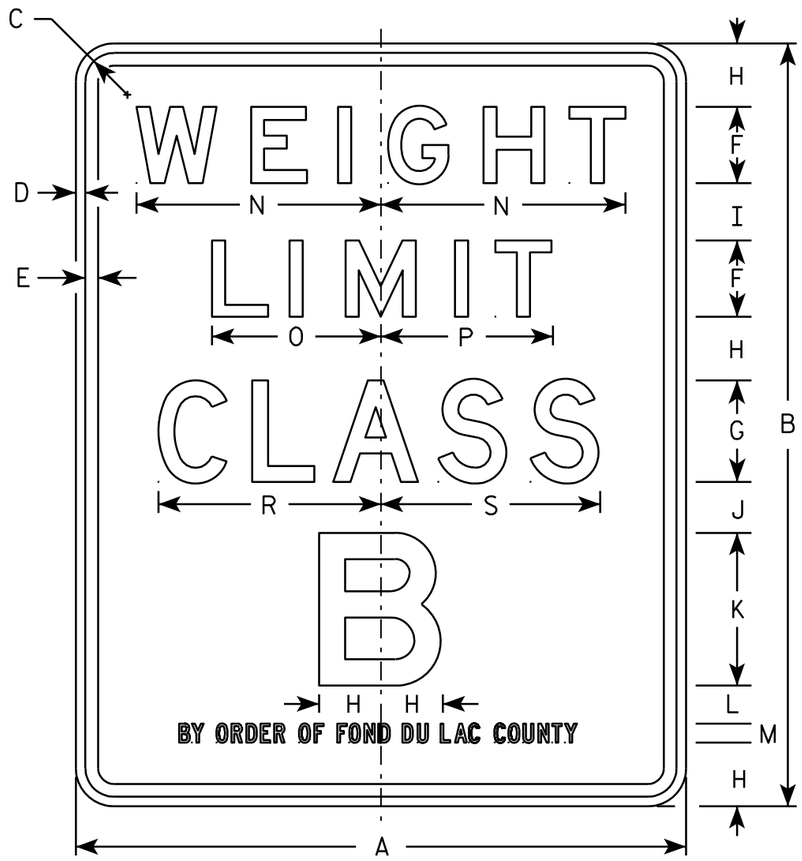
STANDARD SIGN
R12-52

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/1/11 PLATE NO. R12-52.6

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 321	E



R12-53

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - See Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1, 2 & 4 are Series E.
   Line 3 is Series D.
   Line 5 is Series C.
6. Line 5 of the sign shall vary with the name of the maintaining authority.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	30	1 1/8	3/8	1/2	3	4	2 1/2	2 1/4	2	6	1 1/2	3/4	9 5/8	6 5/8	6 3/4		8 3/4	8 5/8								5.0
2M	24	30	1 1/8	3/8	1/2	3	4	2 1/2	2 1/4	2	6	1 1/2	3/4	9 5/8	6 5/8	6 3/4		8 3/4	8 5/8								5.0
3																											
4																											
5																											

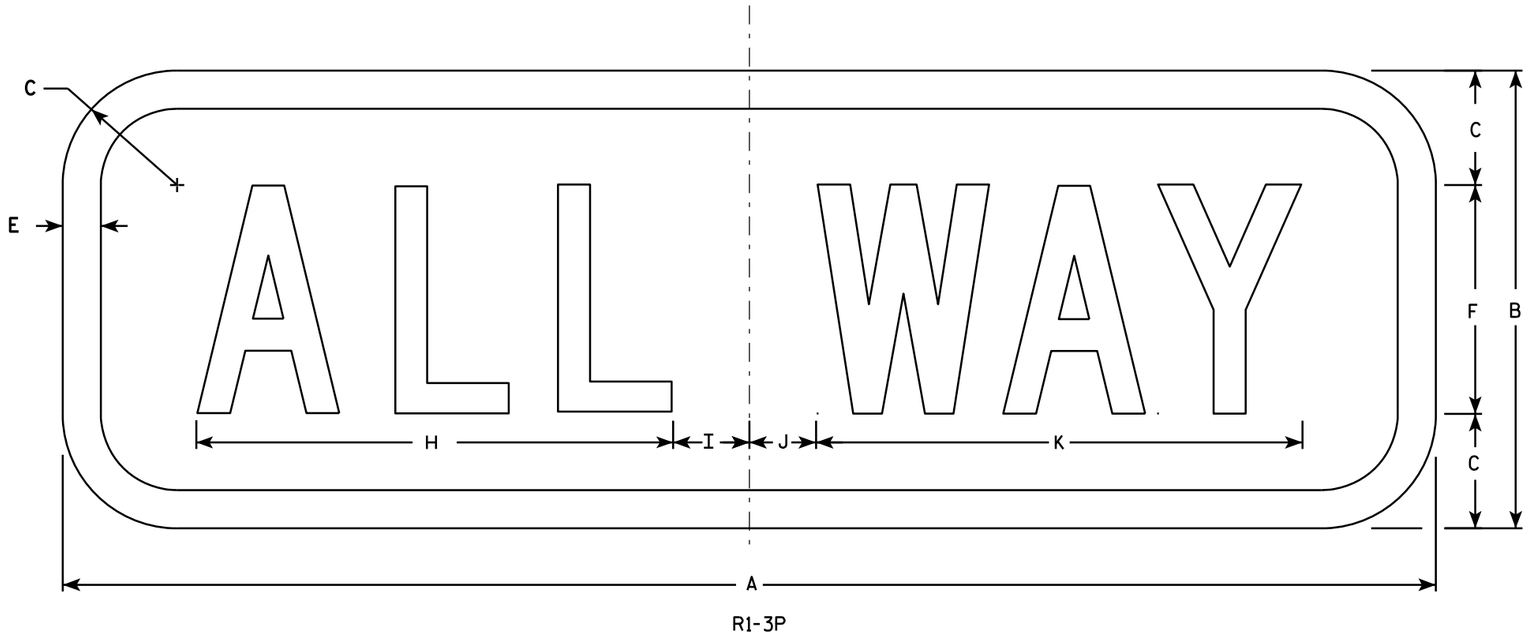
STANDARD SIGN
R12-53

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/1/11 PLATE NO. R12-53.3

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 322 | E



R1-3P

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 1/2		1/2	3		6 1/4	1 1/4	7/8	6 3/8																0.75
2S	18	6	1 1/2		1/2	3		6 1/4	1 1/4	7/8	6 3/8																1.5
2M	24	9	1 1/2		1/2	5		9 1/4	1 1/4	3/4	9 3/4																1.5
3	30	12	2 1/4		5/8	6		11	2 1/4	1 1/2	11 3/4																2.5
4																											
5																											

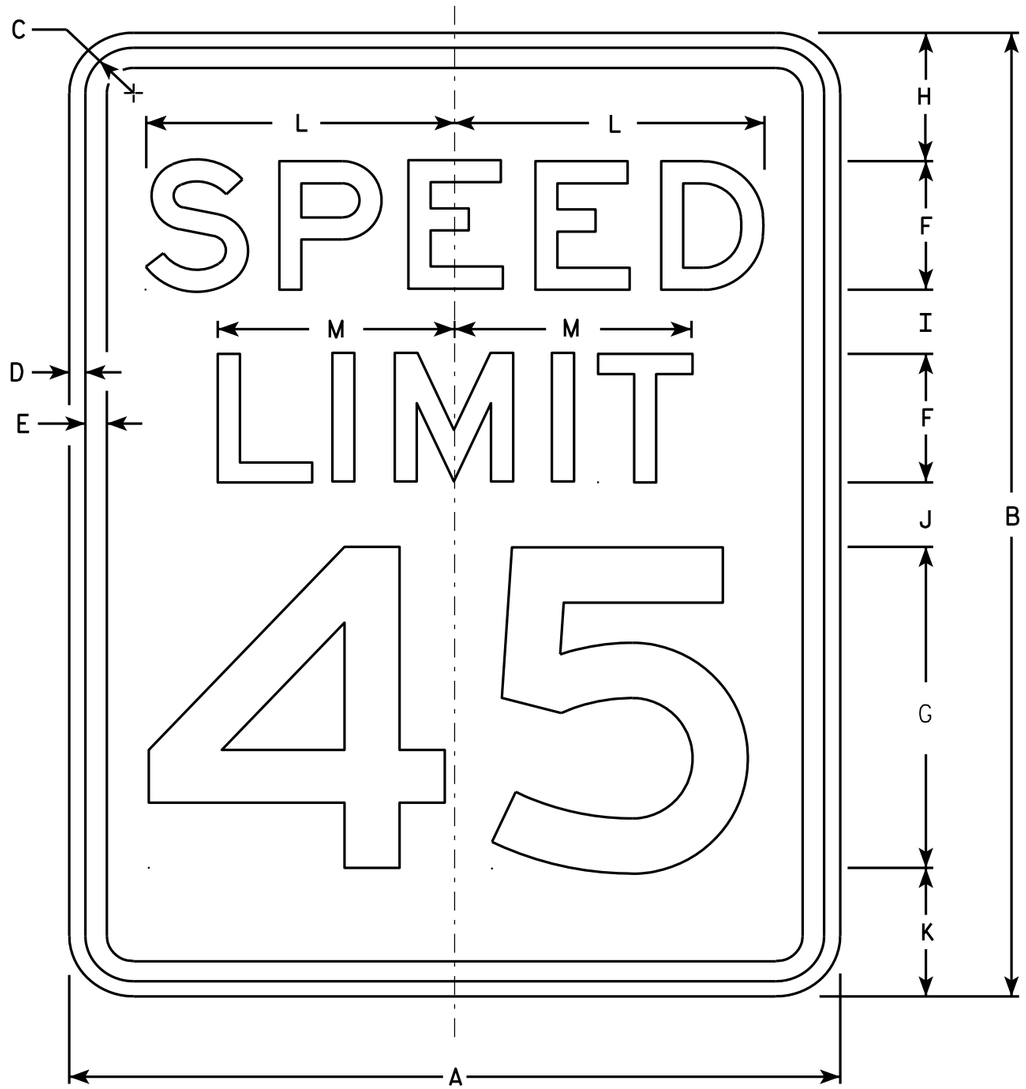
STANDARD SIGN
R1-3P

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/02/10 PLATE NO. R1-3P.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 323	E



R2-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0
2S	24	30	1 1/8	3/8	1/2	4	10	3	2 1/4	3 3/8	3 3/8	9 5/8	7 3/8														5.0
2M	30	36	1 3/8	1/2	5/8	5	12	5	2 1/2	2 1/2	4	12	9 1/4														7.5
3	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
4	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
5	48	60	2 1/4	3/4	1	8	20	6	4 1/2	6 3/4	6 3/4	19 1/4	14 5/8														20.0

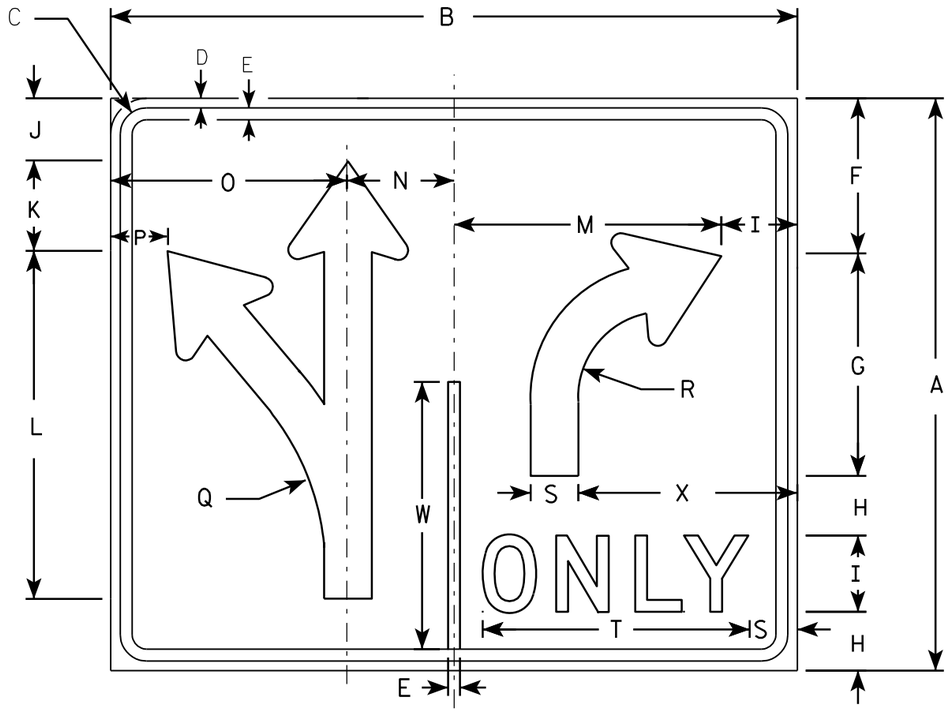
STANDARD SIGN
R2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/26/10 PLATE NO. R2-1.13

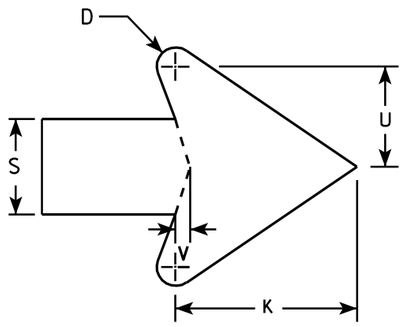
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 324	E



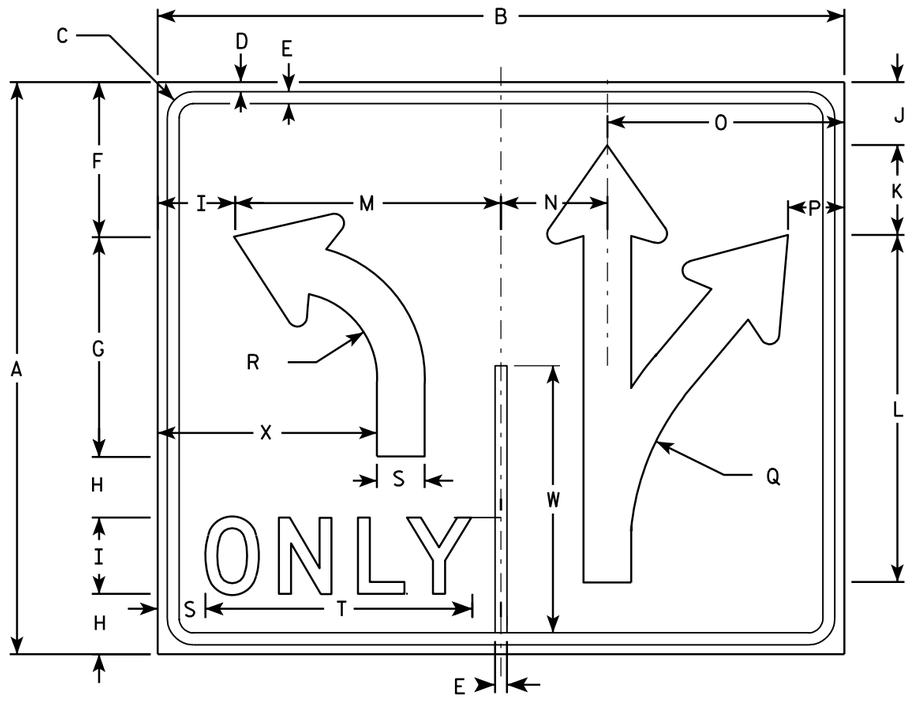
R3-8

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - WHITE
   Message - BLACK
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



ARROW DETAIL



R3-8A

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	36	1 3/8	1/2	5/8	8 1/8	11 5/8	3 1/8	4	3 1/4	4 3/4	18 1/4	14	5 5/8	12 3/8	3	13 1/4	4 1/2	2 1/2	14	2 5/8	3/8	14	11 1/2			7.5
2M	30	36	1 3/8	1/2	5/8	8 1/8	11 5/8	3 1/8	4	3 1/4	4 3/4	18 1/4	14	5 5/8	12 3/8	3	13 1/4	4 1/2	2 1/2	14	2 5/8	3/8	14	11 1/2			7.5
3																											
4	48	54	2 1/4	3/4	1	13 1/4	18 1/2	5 1/8	6	5 1/4	7 1/8	29 1/8	21	8 3/8	18 5/8	4 3/8	21 7/8	7 1/4	3 3/4	20 5/8	4	5/8	22 3/8	17 1/4			18.0
5	48	54	2 1/4	3/4	1	13 1/4	18 1/2	5 1/8	6	5 1/4	7 1/8	29 1/8	21	8 3/8	18 5/8	4 3/8	21 7/8	7 1/4	3 3/4	20 5/8	4	5/8	22 3/8	17 1/4			18.0

STANDARD SIGN
R3-8 & R3-8A

WISCONSIN DEPT OF TRANSPORTATION

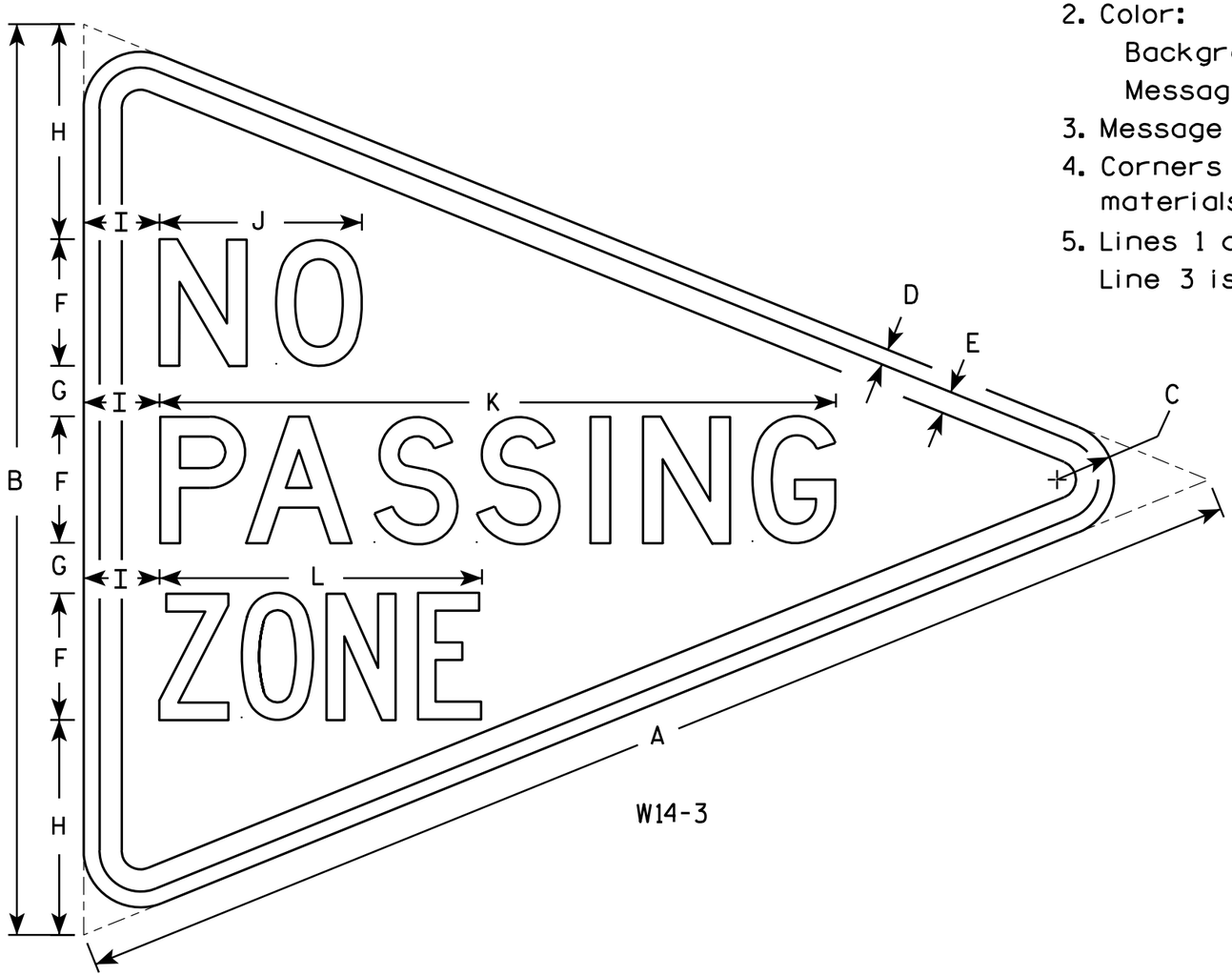
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/2011 PLATE NO. R3-8.5

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 325	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. Message Series - See note 5
4. Corners and borders shall be rounded on all base materials for this sign.
5. Lines 1 and 2 are Series D.
   Line 3 is series C.



W14-3

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	36	2 1/4	5/8	7/8	5	2	8 1/2	3	8	26 3/4	12 3/4															6.0
2M	48	36	2 1/4	5/8	7/8	5	2	8 1/2	3	8	26 3/4	12 3/4															6.0
3	64	48	3	3/4	1 1/4	6	3	12	4	10 3/4	33 5/8	16 1/2															10.7
4																											
5																											

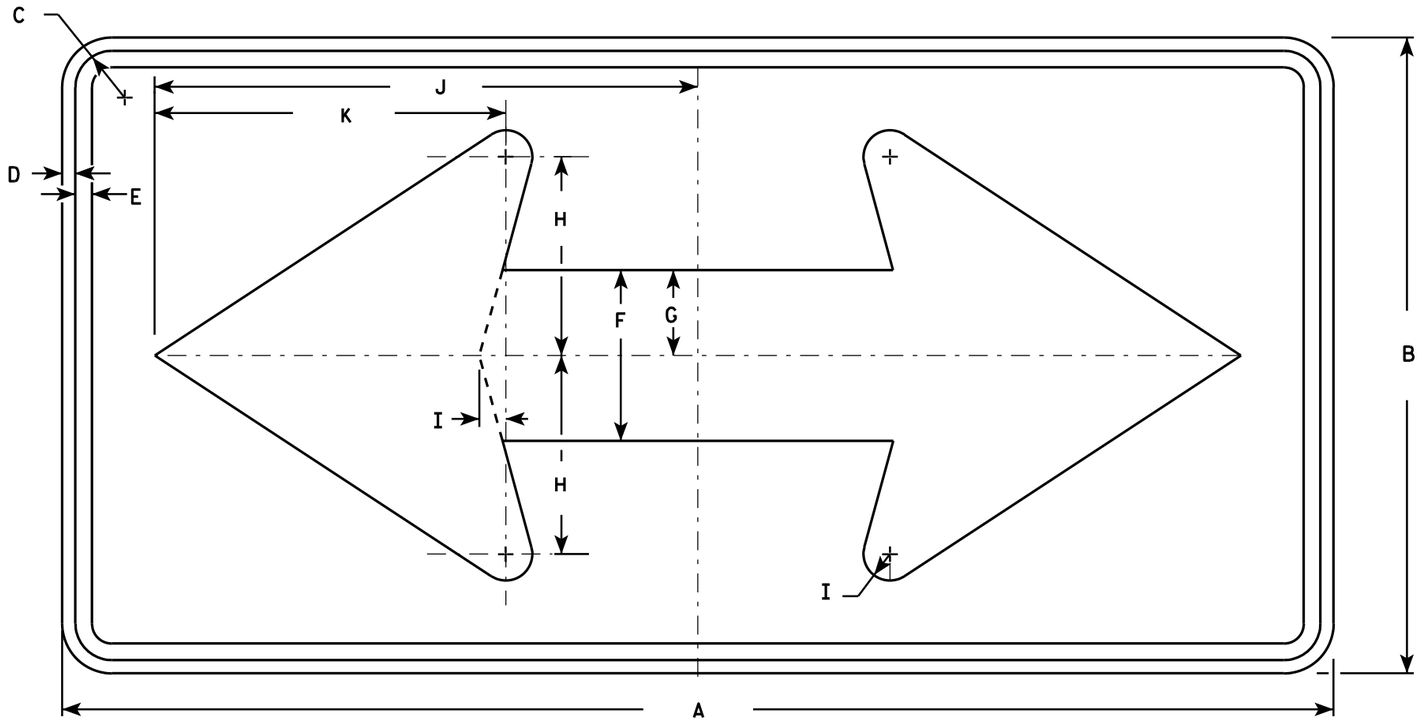
STANDARD SIGN
W14-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W14-3.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 326	E



W1-7

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	18	1 1/8	3/8	1/2	5	2 1/2	5 3/4	3/4	15 5/8	10 1/8																4.5
2S	48	24	1 3/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
2M	48	24	1 3/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
3	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5
4	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5
5	96	48	2 1/4	3/4	1	13	6 1/2	15	2	41	26 1/2																32.0

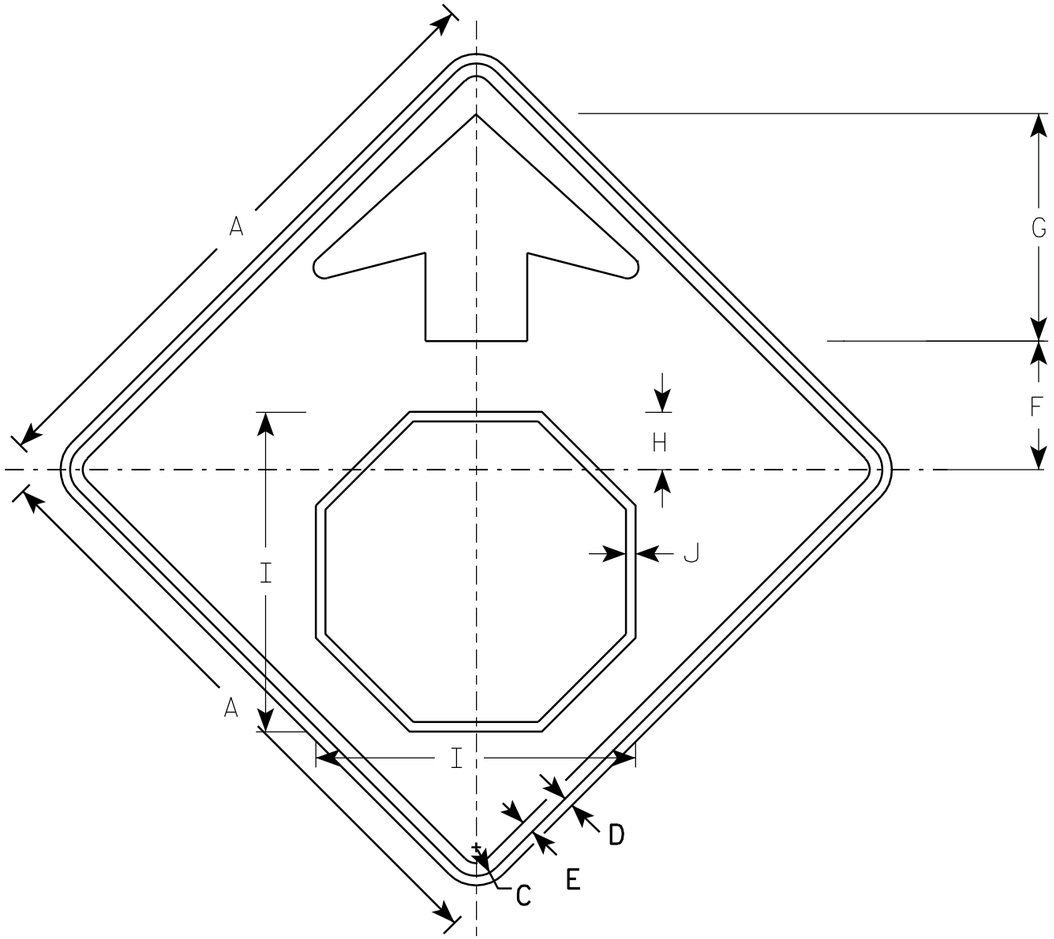
STANDARD SIGN
W1-7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W1-7.7

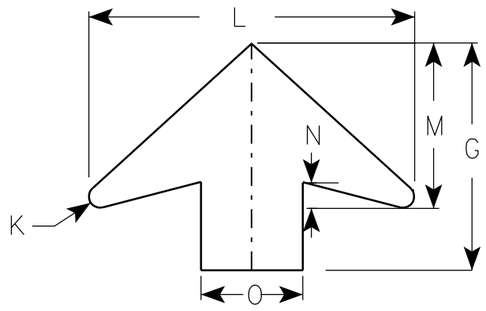
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 327 | E



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

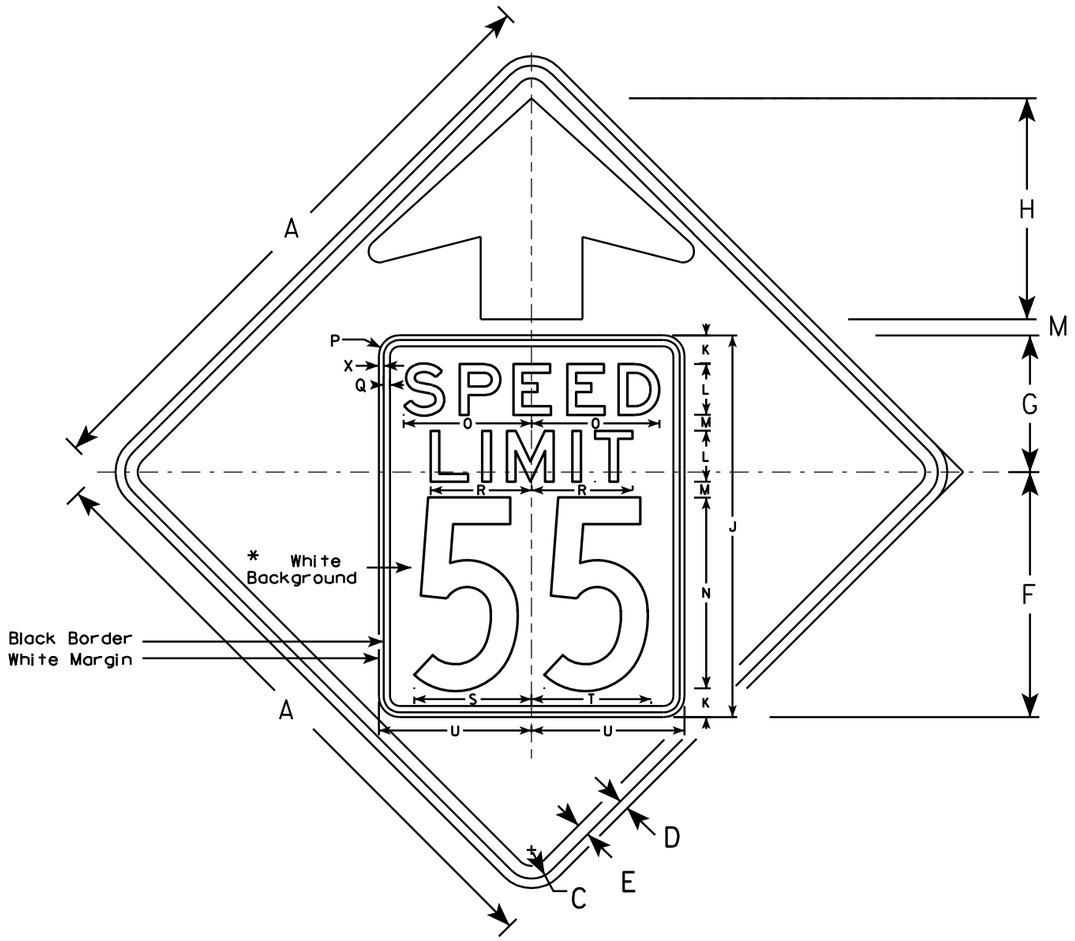
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W3-1.12

PROJECT NO:

SHEET NO: 328 E

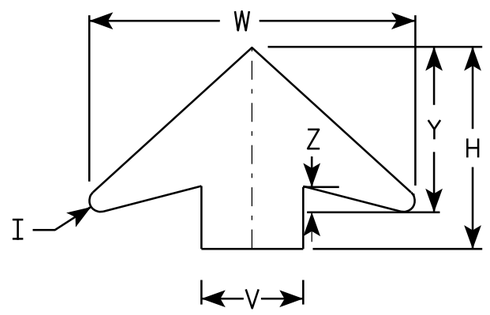


W3-5

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color: *
   Background - YELLOW*
   Message - BLACK
3. Message Series - C for numbers Series E for wording
4. Substitute appropriate numerals and optically adjust spacing to achieve proper balance

*Speed Limit Sign shall have a White Background



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
2M	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
3	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
4	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0
5	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0

STANDARD SIGN
W3-5

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/29/12 PLATE NO. W3-5.5

PROJECT NO:

SHEET NO: 329 E

EAST FRONTAGE ROAD										
		AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)		
STATION	Distance	Cut	Salvaged/ Unusable Pavement Material	Fill	Cut	Salvaged/Unusable Pavement Material	Fill	Cut 1.00	Expanded Fill 1.20	Mass Ordinate
5897+00 AH		109	16	0	0	0	0	0	0	0
5897+50	50.00	105	16	0	198	30	0	198	0	168
5898+00	50.00	104	16	1	194	30	1	392	1	330
5898+50	50.00	108	16	40	197	30	38	589	47	452
5899+00	50.00	99	16	30	192	30	65	780	124	536
5899+50	50.00	95	16	14	179	30	40	959	173	636
5900+00	50.00	116	16	6	196	30	18	1155	194	780
5900+50	50.00	126	16	8	224	30	13	1379	209	959
5901+00	50.00	169	16	6	273	30	13	1652	225	1186
5901+50	50.00	157	16	1	301	30	7	1953	233	1449
5902+00	50.00	154	16	8	287	30	8	2241	243	1699
5902+50	50.00	151	16	7	282	30	14	2523	259	1943
5903+00	50.00	154	16	5	282	30	11	2805	273	2181
5903+50	50.00	160	16	5	291	30	9	3096	284	2422
5904+00	50.00	160	16	6	297	30	10	3392	296	2662
5904+50	50.00	154	16	10	291	30	15	3683	314	2905
5905+00	50.00	124	16	20	257	30	28	3940	347	3138
5905+50	50.00	95	16	39	203	30	55	4142	413	3333
5906+00	50.00	100	16	76	181	30	107	4324	541	3431
5906+50	50.00	147	16	40	229	30	108	4553	670	3475
5907+00	50.00	155	16	35	280	30	70	4833	754	3542
5907+50	50.00	177	16	23	308	30	54	5141	819	3677
5908+00	50.00	183	16	16	333	30	37	5474	863	3883
5908+50	50.00	111	16	14	272	30	28	5747	896	4127
5909+00	50.00	97	16	17	192	30	28	5939	931	4396
5909+50	50.00	96	16	14	179	30	28	6117	964	4604
5910+00	50.00	109	16	9	190	30	21	6308	990	4741
5910+50	50.00	121	16	2	213	30	10	6520	1002	4877
5911+00	50.00	120	16	1	223	30	3	6744	1005	5034
5911+50	50.00	144	16	0	245	30	1	6988	1006	5216
5912+00	50.00	118	16	1	242	30	1	7230	1007	5408
5912+50	50.00	105	16	3	206	30	3	7437	1011	5618
5913+00	50.00	111	16	1	200	30	3	7637	1015	5827
5913+50	50.00	157	16	0	248	30	1	7885	1016	6002
5914+00	50.00	167	16	0	300	30	0	8185	1016	6172
5914+50	50.00	122	16	0	268	30	0	8453	1017	6390
5915+00	50.00	107	16	7	212	30	7	8665	1025	6652
5915+50	50.00	93	16	16	185	30	21	8850	1050	6864
5916+00	50.00	88	16	23	168	30	36	9017	1094	7002
5916+50	50.00	85	16	28	160	30	47	9177	1151	7100
5917+00	50.00	88	16	25	160	30	49	9337	1209	7179
5917+50	50.00	97	16	27	171	30	48	9508	1266	7252
5918+00	50.00	98	16	31	181	30	53	9689	1330	7318
5918+50	50.00	98	16	36	182	30	62	9871	1404	7384
5919+00	50.00	97	16	37	181	30	67	10051	1485	7454
5919+50	50.00	97	16	40	180	30	71	10231	1569	7522
5920+00	50.00	94	16	43	177	30	76	10408	1661	7581
5920+50	50.00	90	16	47	171	30	83	10579	1761	7631
5921+00	50.00	85	16	60	162	30	100	10741	1880	7658
5921+50	50.00	80	16	74	153	30	124	10895	2029	7650

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EAST FRONTAGE ROAD											
		AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)		
STATION	Distance	Cut	Salvaged/ Unusable Pavement Material	Fill	Cut	Salvaged/Unusable Pavement Material	Fill	Cut 1.00	Expanded Fill 1.20	Mass Ordinate
5922+00	50.00	79	16	78	148	30	141	11043	2198	7613
5922+50	50.00	84	16	75	151	30	142	11194	2368	7566
5923+00	50.00	91	16	61	162	30	126	11356	2519	7534
5923+50	50.00	100	16	54	177	30	106	11533	2646	7527
5924+00	50.00	95	16	60	181	30	106	11714	2773	7533
5924+50	50.00	84	16	68	166	30	119	11880	2915	7537
5925+00	50.00	82	16	56	154	30	115	12034	3053	7550
5925+50	50.00	83	16	51	152	30	100	12186	3173	7567
5926+00	50.00	84	16	47	154	30	91	12340	3283	7580
5926+50	50.00	54	0	15	128	15	58	12468	3352	7647
5927+00	50.00	80	0	0	124	0	14	12592	3370	7785
5927+50	50.00	90	0	0	157	0	0	12749	3370	7913
5928+00	50.00	152	16	14	224	15	13	12973	3386	8005
5928+50	50.00	183	16	11	310	30	23	13283	3413	8105
5929+00	50.00	213	16	7	367	30	16	13649	3433	8278
5929+50	50.00	237	16	5	417	30	11	14066	3446	8545
5930+00	50.00	259	16	0	460	30	5	14525	3452	8876
5930+50	50.00	235	16	0	458	30	0	14983	3452	9262
5931+00	50.00	194	16	1	397	30	1	15380	3453	9691
5931+50	50.00	215	16	1	378	30	1	15759	3454	10117
5932+00	50.00	214	16	0	397	30	1	16156	3455	10484
5932+50	50.00	231	16	0	413	30	0	16569	3455	10832
5933+00	50.00	188	16	0	388	30	0	16957	3455	11199
5933+50	50.00	266	16	0	420	30	0	17376	3455	11581
5934+00	50.00	245	16	0	473	30	0	17849	3455	11939
5934+50	50.00	262	16	0	469	30	0	18318	3455	12329
5935+00	50.00	145	16	0	377	30	0	18695	3455	12772
5935+50	50.00	165	16	4	287	30	3	18981	3459	13206
5936+00	50.00	122	16	7	265	30	10	19246	3472	13540
5936+50	50.00	99	16	14	204	30	19	19450	3495	13774
5937+00	50.00	127	16	1	209	30	13	19659	3511	13993
5937+50	50.00	80	16	27	192	30	25	19851	3541	14137
5938+00	50.00	71	16	35	140	30	57	19990	3609	14247
5938+50	50.00	72	16	30	132	30	60	20122	3681	14337
5939+00	50.00	81	16	27	141	30	53	20263	3744	14383
5939+50	50.00	87	16	23	156	30	46	20419	3799	14430
5940+00	50.00	109	16	14	182	30	34	20601	3839	14501
5940+50	50.00	95	16	19	189	30	31	20790	3876	14590
5941+00	50.00	121	16	2	200	30	20	20990	3900	14718
5941+50	50.00	162	16.5	5	262	30	6	21251	3908	14869
5942+00	50.00	143	16.5	14	282	30	17	21533	3928	15017
5942+50	50.00	128	16.5	21	251	30	32	21784	3967	15210
5943+00	50.00	119	16.5	26	228	30	43	22013	4018	15410
5943+50	50.00	118	16.5	26	219	30	48	22232	4076	15573
5944+00	50.00	98	16.5	8	200	30	31	22431	4113	15733
5944+50	50.00	136	16.5	30	217	30	35	22648	4155	15880
5945+00	50.00	101	16.5	27	219	30	52	22867	4218	15986
5945+50	50.00	92	16.5	29	179	30	51	23046	4280	16111
5946+00	50.00	97	16.5	31	175	30	55	23221	4346	16233
5946+50	50.00	110	16.5	18	192	30	46	23413	4401	16327

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EAST FRONTAGE ROAD											
		AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)		
STATION	Distance	Cut	Salvaged/ Unusable Pavement Material	Fill	Cut	Salvaged/Unusable Pavement Material	Fill	Cut 1.00	Expanded Fill 1.20	Mass Ordinate
5947+00	50.00	122	16.5	8	215	30	25	23627	4431	16441
5947+50	50.00	134	16.5	5	236	30	13	23864	4446	16587
5948+00	50.00	124	16.5	13	239	30	17	24102	4467	16751
5948+50	50.00	134	16.5	7	239	30	19	24342	4490	16934
5949+00	50.00	181	16.5	0	292	30	7	24634	4498	17133
5949+50	50.00	263	16.5	0	412	30	0	25045	4499	17342
5950+00	50.00	264	16.5	1	488	30	1	25533	4499	17603
5950+50	50.00	180	16.5	1	411	30	2	25944	4501	17982
5951+00	50.00	125	16.5	13	283	30	13	26227	4517	18423
5951+50	50.00	111	16.5	21	218	30	31	26446	4555	18766
5952+00	50.00	116	16.5	18	210	30	36	26656	4597	18976
5952+50	50.00	115	16.5	14	214	30	30	26870	4633	19128
5953+00	50.00	119	16.5	19	216	30	31	27086	4670	19271
5953+50	50.00	126	16.5	19	227	30	36	27312	4713	19411
5954+00	50.00	126	16.5	22	233	30	39	27546	4759	19551
5954+50	50.00	113	16.5	38	221	30	56	27767	4827	19680
5955+00	50.00	91	16.5	34	189	30	66	27956	4906	19803
5955+50	50.00	104	17	26	180	31	55	28136	4972	19928
5956+00	50.00	111	15	19	199	29	41	28335	5022	20038
5956+50	50.00	82	15	18	179	28	34	28514	5063	20149
5957+00	50.00	56	15	14	128	28	30	28641	5099	20284
5957+50	50.00	81	15	18	127	28	29	28768	5134	20400
5958+00	50.00	81	15	23	150	28	37	28918	5178	20455
5958+50	50.00	52	15	46	123	28	64	29041	5255	20478
5959+00	50.00	24	15	94	71	28	130	29111	5411	20444
5959+50	50.00	23	15	133	43	28	210	29155	5662	20287
5960+00	50.00	36	15	208	55	28	315	29209	6040	19952
5960+50	50.00	24	15	175	56	28	354	29265	6465	19543
5961+00	50.00	31	15	174	51	28	322	29316	6852	19183
5961+50	50.00	15	15	170	43	28	318	29359	7234	18829
5962+00	50.00	20	15	173	32	28	318	29390	7615	18471
5962+50	50.00	21	15	166	37	28	314	29428	7992	18109
5963+00	50.00	23	15	149	41	28	292	29468	8342	17762
5963+50	50.00	28	15	112	48	28	242	29516	8633	17481
5964+00	50.00	22	15	107	46	28	203	29562	8876	17251
5964+50	50.00	36	15	88	54	28	180	29616	9092	17055
5965+00	50.00	79	15	66	107	28	142	29723	9263	16902
5965+50	50.00	91	15	53	157	28	110	29880	9395	16797
5966+00	50.00	107	15	37	183	28	83	30063	9494	16777
5966+50	50.00	83	15	32	175	28	64	30238	9570	16830
5967+00	50.00	65	15	20	137	28	48	30375	9628	16927
5967+50	50.00	101	15	12	154	28	30	30529	9665	17038
5968+00	50.00	238	15	6	314	28	17	30843	9685	17126
5968+50	50.00	300	15	3	498	28	8	31341	9695	17242
5969+00	50.00	245	15	6	504	28	8	31845	9705	17519
5969+50	50.00	166	15	12	380	28	16	32226	9724	17970
5970+00	50.00	118	15	16	263	28	26	32489	9755	18416
5970+50	50.00	100	13	23	203	26	36	32692	9799	18726
5971+00	50.00	119	12	28	203	23	47	32895	9855	18910
5971+50	50.00	120	12	35	221	22	58	33115	9924	19022

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EAST FRONTAGE ROAD											
		AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)		
STATION	Distance	Cut	Salvaged/ Unusable Pavement Material	Fill	Cut	Salvaged/Unusable Pavement Material	Fill	Cut 1.00	Expanded Fill 1.20	Mass Ordinate
5972+00	50.00	116	12	40	219	22	69	33334	10006	19121
5972+50	50.00	111	12	48	210	22	81	33544	10103	19223
5973+00	50.00	120	12	50	214	22	90	33758	10212	19312
5973+50	50.00	121	12	53	224	22	95	33982	10326	19386
5974+00	50.00	133	12	48	235	22	94	34217	10439	19466
5974+50	50.00	140	12	36	252	22	78	34469	10532	19575
5975+00	50.00	119	12	26	240	22	58	34709	10601	19719
5975+50	50.00	114	12	22	216	22	44	34925	10654	19896
5976+00	50.00	133	12	12	229	22	31	35154	10692	20077
5976+50	50.00	146	12	3	258	22	14	35412	10709	20254
5977+00	50.00	176	12	0	298	22	3	35710	10712	20458
5977+50	50.00	167	12	0	317	22	0	36027	10712	20695
5978+00	50.00	123	12	8	269	22	7	36296	10721	20962
5978+50	50.00	96	12	31	203	22	36	36499	10765	21214
5979+00	50.00	98	12	29	180	22	56	36678	10832	21394
5979+50	50.00	74	12	31	159	22	56	36838	10899	21508
5980+00	50.00	64	12	16	127	22	44	36965	10952	21614
5980+50	50.00	47	12	42	103	22	54	37068	11017	21687
5981+00	50.00	59	12	6	98	22	45	37166	11070	21739
5981+50	50.00	86	12	39	134	22	42	37300	11121	21770
5982+00	50.00	105	12	24	176	22	58	37477	11190	21777
5982+50	50.00	141	12	8	228	22	29	37704	11226	21854
5983+00	50.00	146	12	1	266	22	8	37971	11235	21999
5983+50	50.00	147	12	0	271	22	1	38242	11236	22205
5984+00	50.00	146	12	0	270	22	0	38512	11236	22449
5984+50	50.00	125	12	0	250	22	0	38763	11236	22699
5985+00	50.00	126	12	0	233	22	0	38995	11236	22948
5985+50	50.00	118	10	0	226	20	0	39221	11236	23178
5986+00	50.00	141	10	0	240	19	0	39461	11237	23391
5986+50	50.00	149	10	0	269	19	0	39730	11237	23598
5987+00	50.00	143	10	0	271	19	0	40001	11237	23820
5987+50	50.00	209	10	0	326	19	0	40326	11237	24070
5988+00	50.00	252	10	0	427	19	0	40753	11237	24323
5988+50	50.00	283	10	0	496	19	0	41249	11237	24630
5989+00	50.00	295	10	0	535	19	0	41784	11237	25038
5989+50	50.00	303	10	1	553	19	1	42338	11238	25514
5990+00	50.00	329	10	1	585	19	2	42923	11240	26029
5990+50	50.00	337	10	1	616	19	2	43540	11243	26561
5991+00	50.00	334	10	1	621	19	2	44160	11245	27125
5991+50	50.00	304	10	3	591	19	4	44751	11250	27719
5992+00	50.00	242	10	4	506	19	6	45257	11257	28314
5992+50	50.00	212	10	3	420	19	6	45678	11264	28879
5993+00	50.00	206	10	2	388	19	4	46065	11270	29361
5993+50	50.00	189	10	4	366	19	5	46431	11276	29756
5994+00	50.00	204	10	3	363	19	6	46794	11284	30118
5994+50	50.00	221	10	4	393	19	6	47187	11291	30458
5995+00	50.00	242	10	3	429	19	6	47616	11299	30795
5995+50	50.00	245	10	2	452	19	5	48068	11304	31163
5996+00	50.00	231	10	1	441	19	3	48509	11308	31571
5996+50	50.00	197	10	0	397	19	1	48906	11308	32003

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EAST FRONTAGE ROAD											
		AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)		
STATION	Distance	Cut	Salvaged/ Unusable Pavement Material	Fill	Cut	Salvaged/Unusable Pavement Material	Fill	Cut 1.00	Expanded Fill 1.20	Mass Ordinate
5997+00	50.00	160	10	2	331	19	2	49236	11311	32424
5997+50	50.00	127	10	8	266	19	9	49502	11321	32791
5998+00	50.00	113	10	10	222	19	16	49725	11341	33084
5998+50	50.00	105	10	32	201	19	39	49926	11387	33285
5999+00	50.00	56	10	36	149	19	63	50075	11463	33413
5999+50	50.00	52	10	45	100	19	75	50175	11553	33506
6000+00	50.00	67	10	88	110	19	124	50285	11702	33487
6000+50	50.00	63	10	177	120	19	246	50406	11996	33274
6001+00	50.00	65	13	29	118	21	191	50524	12225	33135
6001+50	50.00	71	13	15	126	23	41	50650	12274	33183
6002+00	50.00	79	13	8	139	23	22	50789	12301	33252
6002+50	50.00	91	13	5	157	23	12	50945	12315	33340
6003+00	50.00	119	13	0	194	23	4	51140	12320	33451
6003+50	50.00	172	13	0	270	23	0	51410	12320	33584
6004+00	50.00	236	13	0	378	23	0	51788	12320	33755
6004+50	50.00	261	13	0	461	23	0	52249	12320	34002
6005+00	50.00	255	13	0	478	23	0	52727	12320	34357
6005+50	50.00	255	13	0	472	23	0	53199	12320	34795
6006+00 BK	50.00	118	0	0	345	12	0	53544	12320	35262
3003+00 AH	50.00	125	0	0	225	0	0	53769	12320	35734
3003+50	50.00	128	0	18	234	0	16	54003	12340	36059
3004+00	50.00	145	13	15	252	12	30	54256	12376	36236
3004+50	50.00	160	13	42	282	23	52	54538	12439	36385
3005+00	50.00	167	13	20	303	23	57	54841	12507	36546
3005+50	50.00	172	13	18	314	23	35	55155	12549	36763
3006+00	50.00	176	13	12	322	23	28	55476	12582	37009
3006+50	50.00	168	13	15	318	23	25	55795	12612	37270
3007+00	50.00	156	13	63	300	23	72	56095	12698	37483
3007+50	50.00	149	13	63	283	23	117	56377	12838	37638
3008+00	50.00	146	13	56	274	23	110	56651	12970	37782
3008+50	50.00	220	13	0	339	23	52	56990	13032	37980
3009+00	50.00	324	13	0	503	23	0	57493	13032	38231
3009+50	50.00	375	13	0	647	23	0	58140	13032	38547
3010+00	50.00	353	13	0	674	23	0	58815	13032	39027
3010+50	50.00	359	13	0	659	23	0	59474	13033	39650
3011+00	50.00	324	13	0	632	23	0	60106	13033	40301
3011+50	50.00	275	15	0	555	25	0	60661	13033	40935
3012+00	50.00	228	15	0	466	28	0	61127	13033	41539
3012+50	50.00	207	15	0	403	28	0	61530	13033	42066
3013+00	50.00	208	15	0	384	28	0	61914	13034	42504
3013+50	50.00	234	15	1	409	28	1	62324	13035	42878
3014+00	50.00	250	15	2	448	28	3	62772	13039	43230
3014+50	50.00	242	15	1	456	28	3	63227	13042	43608
3015+00	50.00	210	15	0	419	28	1	63646	13043	44028
3015+50	50.00	176	15	1	358	28	1	64004	13044	44455
3016+00	50.00	135	15	6	288	28	6	64292	13051	44839
3016+50	50.00	112	15	65	229	28	65	64521	13130	45090
3017+00	50.00	92	15	79	189	28	133	64709	13289	45191
3017+50	50.00	73	15	78	153	28	146	64863	13464	45217
3018+00	50.00	64	15	83	127	28	149	64990	13643	45199

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EAST FRONTAGE ROAD											
		AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)		
STATION	Distance	Cut	Salvaged/ Unusable Pavement Material	Fill	Cut	Salvaged/Unusable Pavement Material	Fill	Cut 1.00	Expanded Fill 1.20	Mass Ordinate
3018+50	50.00	55	15	86	110	28	156	65100	13830	45137
3019+00	50.00	49	15	77	96	28	151	65196	14012	45056
3019+50	50.00	54	15	70	96	28	135	65292	14174	44975
3020+00	50.00	66	15	67	111	28	126	65403	14326	44892
3020+50	50.00	83	15	66	137	28	123	65540	14473	44812
3021+00	50.00	86	15	41	156	28	99	65696	14592	44777
3021+50	50.00	107	15	27	178	28	63	65874	14668	44811
3022+00	50.00	149	15	14	237	28	38	66112	14713	44893
3022+50	50.00	195	15	10	318	28	22	66430	14740	45017
3023+00	50.00	203	15	10	368	28	18	66798	14762	45205
3023+50	50.00	201	15	6	374	28	15	67172	14780	45477
3024+00	50.00	215	15	0	385	28	6	67557	14787	45811
3024+50	50.00	207	15	5	391	28	5	67948	14793	46151
3025+00	50.00	176	15	5	355	28	9	68303	14804	46498
3025+50	50.00	167	15	3	317	28	8	68620	14813	46851
3026+00	50.00	112	15	1	258	28	4	68878	14818	47173
3026+50	50.00	93	15	6	190	28	6	69068	14825	47455
3027+00	50.00	83	15	25	163	28	28	69230	14859	47652
3027+50	50.00	84	15	42	154	28	62	69384	14933	47739
3028+00	50.00	81	15	89	152	28	122	69536	15080	47728
3028+50	50.00	152	15	198	215	28	266	69751	15398	47535
3029+00	50.00	145	15	92	275	28	268	70026	15720	47338
3029+50	50.00	144	15	80	267	28	158	70293	15910	47336
3030+00	50.00	155	15	81	276	28	148	70570	16088	47405
3030+50	50.00	141	15	76	274	28	145	70844	16261	47471
3031+00 BK	50.00	133	15	59	254	28	124	71098	16410	47570
					71098	7164	13675			

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PROJECT NO: 1030-11-77 | HWY: IH 94 | COUNTY: RACINE | EARTHWORK - EAST FRONTAGE ROAD | SHEET 335 | E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090101_ew.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:200

WEST FRONTAGE ROAD

STATION	Distance	AREA (SF) Cut	AREA (SF) Salvaged/ Unusable Pavement Material	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Salvaged/Unusable Pavement Material	Incremental Vol (CY) (Unadjusted) Fill	Cumulative Vol (CY) Cut 1.00	Cumulative Vol (CY) Expanded Fill 1.20	Mass Ordinate
4892+00 AH		0	0	0	0	0	0	0	0	0
4892+50	50.00	193	0	0	179	0	0	179	0	179
4893+00	50.00	217	0	25	379	0	24	558	28	530
4893+50	50.00	231	0	31	414	0	52	972	91	882
4894+00	50.00	203	0	49	401	0	73	1374	179	1195
4894+50	50.00	160	0	50	336	0	91	1710	288	1421
4895+00	50.00	162	0	41	298	0	84	2008	389	1618
4895+50	50.00	290	0	59	418	0	93	2426	500	1926
4896+00	50.00	290	0	50	537	0	101	2963	621	2342
4896+50	50.00	299	0	44	545	0	86	3508	725	2783
4897+00	50.00	281	0	3	537	0	44	4045	777	3284
4897+50	50.00	259	0	38	501	0	38	4546	823	3792
4898+00	50.00	417	0	29	626	0	62	5172	898	4218
4898+50	50.00	460	0	28	812	0	53	5983	961	4655
4899+00	50.00	484	0	27	874	0	50	6857	1022	5221
4899+50	50.00	400	0	25	818	0	49	7676	1080	5974
4900+00	50.00	402	0	28	742	0	49	8418	1139	6789
4900+50	50.00	287	0	28	638	0	52	9055	1201	7546
4901+00	50.00	208	0	66	458	0	87	9514	1305	8183
4901+50	50.00	159	0	150	340	0	200	9854	1545	8581
4902+00	50.00	111	0	195	250	0	319	10104	1928	8656
4902+50	50.00	104	0	222	199	0	386	10303	2391	8533
4903+00	50.00	12	0	231	108	0	419	10411	2894	8281
4903+50	50.00	59	0	206	66	0	405	10477	3380	7994
4904+00	50.00	116	0	182	162	0	359	10639	3811	7671
4904+50	50.00	49	0	145	152	0	303	10791	4174	7373
4905+00	50.00	148	0	106	182	0	232	10973	4453	7256
4905+50	50.00	162	0	74	287	0	166	11260	4653	7209
4906+00	50.00	173	0	48	310	0	113	11570	4789	7255
4906+50	50.00	173	0	33	320	0	75	11890	4879	7452
4907+00	50.00	228	0	9	371	0	39	12261	4926	7715
4907+50	50.00	182	0	31	379	0	37	12640	4970	7991
4908+00	50.00	182	0	33	337	0	59	12978	5041	8291
4908+50	50.00	179	0	48	335	0	75	13312	5131	8580
4909+00	50.00	164	0	49	318	0	89	13630	5238	8810
4909+50	50.00	154	0	57	295	0	98	13925	5355	9027
4910+00	50.00	146	0	65	278	0	113	14202	5491	9210
4910+50	50.00	133	0	66	258	0	121	14460	5635	9360
4911+00	50.00	138	0	89	251	0	143	14710	5807	9466
4911+50	50.00	141	0	98	258	0	173	14969	6014	9516
4912+00	50.00	143	0	108	263	0	191	15231	6243	9538
4912+50	50.00	146	0	105	268	0	197	15500	6479	9560
4913+00	50.00	148	0	103	272	0	193	15772	6710	9592
4913+50	50.00	167	0	88	291	0	177	16063	6923	9647
4914+00	50.00	166	0	87	308	0	163	16371	7118	9724
4914+50	50.00	168	0	78	309	0	153	16680	7302	9832
4915+00	50.00	169	0	77	311	0	143	16992	7474	9968
4915+50	50.00	167	0	78	311	0	144	17303	7646	10104
4916+00	50.00	170	0	73	313	0	140	17615	7815	10247
4916+50	50.00	187	0	45	330	0	109	17945	7946	10427

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WEST FRONTAGE ROAD										
		AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)		
STATION	Distance	Cut	Salvaged/ Unusable Pavement Material	Fill	Cut	Salvaged/Unusable Pavement Material	Fill	Cut 1.00	Expanded Fill 1.20	Mass Ordinate
4917+00	50.00	1357	0	68	1429	0	104	19375	8071	10615
4917+50	50.00	150	0	68	1395	0	126	20770	8222	10794
4918+00	50.00	140	0	56	268	0	115	21038	8360	12086
4918+50	50.00	133	0	53	253	0	101	21291	8481	13360
4919+00	50.00	125	0	63	239	0	107	21530	8609	13500
4919+50	50.00	117	0	51	224	0	106	21755	8736	13626
4920+00	50.00	110	0	38	210	0	83	21965	8835	13766
4920+50	50.00	111	0	27	205	0	60	22170	8908	13917
4921+00	50.00	115	0	18	209	0	42	22379	8958	14077
4921+50	50.00	116	0	12	213	0	28	22592	8992	14249
4922+00	50.00	116	0	13	214	0	23	22806	9019	14430
4922+50	50.00	121	0	12	219	0	23	23025	9046	14617
4923+00	50.00	106	0	3	210	0	13	23235	9062	14814
4923+50	50.00	101	0	0	192	0	3	23427	9065	15031
4924+00	50.00	89	0	0	175	0	0	23602	9065	15241
4924+50	50.00	198	0	7	266	0	7	23868	9073	15425
4925+00	50.00	254	0	1	419	0	8	24287	9082	15591
4925+50	50.00	227	0	0	446	0	1	24733	9084	15855
4926+00	50.00	250	0	0	441	0	0	25174	9084	16275
4926+50	50.00	262	0	0	473	0	0	25648	9084	16720
4927+00	50.00	255	0	7	479	0	7	26126	9091	17153
4927+50	50.00	244	0	9	462	0	14	26588	9109	17610
4928+00	50.00	245	0	5	452	0	12	27041	9123	18074
4928+50	50.00	231	0	3	440	0	7	27481	9131	18528
4929+00	50.00	198	0	7	397	0	9	27878	9143	18969
4929+50	50.00	231	0	0	397	0	7	28275	9151	19401
4930+00	50.00	188	0	6	388	0	5	28663	9157	19791
4930+50	50.00	192	0	3	352	0	8	29015	9167	20179
4931+00	50.00	179	0	8	343	0	10	29358	9179	20554
4931+50	50.00	185	0	1	337	0	8	29695	9190	20896
4932+00	50.00	160	0	31	320	0	29	30015	9224	21204
4932+50	50.00	146	0	48	284	0	73	30298	9312	21454
4933+00	50.00	137	0	54	262	0	94	30560	9425	21661
4933+50	50.00	118	0	75	236	0	120	30796	9569	21800
4934+00	50.00	92	0	120	195	0	181	30991	9786	21845
4934+50	50.00	87	0	117	166	0	219	31157	10049	21818
4935+00	50.00	170	0	104	239	0	204	31395	10294	21767
4935+50	50.00	66	0	125	219	0	212	31614	10549	21679
4936+00	50.00	69	0	131	125	0	237	31739	10833	21633
4936+50	50.00	76	0	136	134	0	247	31874	11130	21555
4937+00	50.00	73	0	138	138	0	254	32011	11434	21376
4937+50	50.00	70	0	135	132	0	253	32143	11738	21206
4938+00	50.00	72	0	101	131	0	219	32274	12000	21081
4938+50	50.00	64	0	134	126	0	217	32400	12261	20953
4939+00	50.00	62	0	148	116	0	260	32516	12574	20771
4939+50	50.00	65	0	138	117	0	265	32633	12891	20579
4940+00	50.00	63	0	133	119	0	252	32752	13193	20393
4940+50	50.00	92	0	7	144	0	130	32896	13349	20355
4941+00	50.00	109	0	120	186	0	117	33082	13490	20333
4941+50	50.00	90	0	108	184	0	210	33265	13742	20224

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WEST FRONTAGE ROAD											
		AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)		
STATION	Distance	Cut	Salvaged/ Unusable Pavement Material	Fill	Cut	Salvaged/Unusable Pavement Material	Fill	Cut 1.00	Expanded Fill 1.20	Mass Ordinate
4942+00	50.00	114	0	85	188	0	178	33454	13956	20197
4942+50	50.00	139	0	66	234	0	140	33687	14124	20213
4943+00	50.00	140	0	14	258	0	75	33945	14213	20311
4943+50	50.00	103	0	65	225	0	74	34170	14301	20457
4944+00	50.00	115	0	12	202	0	71	34372	14387	20629
4944+50	50.00	111	0	4	209	0	15	34581	14405	20836
4945+00	50.00	131	0	1	224	0	4	34805	14410	21033
4945+50	50.00	152	0	0	262	0	1	35067	14410	21242
4946+00	50.00	131	0	0	262	0	0	35329	14410	21465
4946+50	50.00	107	0	3	220	0	3	35549	14414	21724
4947+00	50.00	100	0	11	192	0	13	35741	14429	21970
4947+50	50.00	97	0	38	183	0	45	35924	14483	22137
4948+00	50.00	96	0	70	179	0	99	36103	14602	22209
4948+50	50.00	99	0	79	180	0	138	36283	14768	22227
4949+00	50.00	93	0	78	177	0	145	36460	14942	22231
4949+50	50.00	87	0	87	166	0	152	36626	15125	22229
4950+00	50.00	86	0	123	160	0	195	36786	15358	22172
4950+50	50.00	88	0	95	161	0	202	36946	15601	22096
4951+00	50.00	97	0	50	171	0	134	37118	15761	22095
4951+50	50.00	118	0	75	199	0	116	37317	15900	22117
4952+00	50.00	108	0	85	209	0	148	37526	16078	22111
4952+50	50.00	96	0	97	189	0	169	37715	16280	22108
4953+00	50.00	108	0	67	188	0	152	37903	16462	22134
4953+50	50.00	109	0	57	201	0	115	38104	16600	22185
4954+00	50.00	110	0	50	203	0	100	38307	16720	22254
4954+50	50.00	112	0	47	205	0	90	38513	16828	22347
4955+00	50.00	104	0	42	200	0	82	38713	16927	22451
4955+50	50.00	125	0	79	212	0	113	38925	17062	22521
4956+00	50.00	129	0	46	235	0	116	39160	17202	22582
4956+50	50.00	101	0	32	212	0	73	39372	17289	22706
4957+00	50.00	130	0	55	213	0	81	39586	17386	22845
4957+50	50.00	80	0	61	194	0	107	39780	17514	22929
4958+00	50.00	61	0	79	131	0	129	39911	17669	22987
4958+50	50.00	61	0	75	113	0	142	40024	17839	23011
4959+00	50.00	43	0	93	96	0	155	40120	18026	22956
4959+50	50.00	23	0	169	61	0	243	40181	18317	22777
4960+00	50.00	119	0	56	131	0	208	40313	18567	22624
4960+50	50.00	82	0	56	186	0	103	40498	18691	22561
4961+00	50.00	62	0	13	133	0	64	40631	18768	22615
4961+50	50.00	64	0	28	117	0	38	40748	18814	22755
4962+00	50.00	116	0	10	167	0	36	40915	18856	22846
4962+50	50.00	135	0	4	232	0	13	41147	18872	22947
4963+00	50.00	151	0	0	265	0	4	41412	18877	23109
4963+50	50.00	165	0	0	292	0	0	41705	18877	23341
4964+00	50.00	201	0	0	339	0	0	42043	18877	23605
4964+50	50.00	255	0	0	422	0	0	42465	18877	23898
4965+00	50.00	292	0	0	506	0	0	42972	18877	24237
4965+50	50.00	265	0	0	516	0	0	43488	18877	24659
4966+00	50.00	215	0	0	444	0	0	43932	18877	25165
4966+50	50.00	198	0	0	382	0	0	44314	18877	25681

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WEST FRONTAGE ROAD										
		AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)		
STATION	Distance	Cut	Salvaged/ Unusable Pavement Material	Fill	Cut	Salvaged/Unusable Pavement Material	Fill	Cut 1.00	Expanded Fill 1.20	Mass Ordinate
4967+00	50.00	142	0	0	314	0	0	44628	18877	26125
4967+50	50.00	147	0	1	268	0	1	44896	18878	26506
4968+00	50.00	134	0	2	260	0	3	45156	18882	26817
4968+50	50.00	148	0	1	261	0	3	45416	18885	27081
4969+00	50.00	182	0	1	306	0	2	45722	18888	27338
4969+50	50.00	221	0	2	373	0	3	46096	18892	27595
4970+00	50.00	291	0	1	474	0	3	46569	18895	27898
4970+50	50.00	342	0	1	586	0	1	47156	18896	28270
4971+00	50.00	386	0	0	674	0	1	47830	18897	28743
4971+50	50.00	428	0	0	753	0	0	48583	18897	29329
4972+00	50.00	471	0	0	833	0	0	49416	18897	30003
4972+50	50.00	541	0	0	937	0	0	50353	18897	30757
4973+00	50.00	596	0	0	1053	0	0	51406	18897	31589
4973+50	50.00	647	0	0	1151	0	0	52558	18897	32527
4974+00	50.00	640	0	0	1192	0	0	53750	18897	33580
4974+50	50.00	638	0	0	1183	0	0	54933	18897	34731
4975+00	50.00	699	0	0	1238	0	0	56171	18897	35923
4975+50	50.00	650	0	0	1249	0	0	57419	18897	37106
4976+00	50.00	669	0	0	1221	0	0	58640	18897	38344
4976+50	50.00	538	0	0	1117	0	0	59758	18897	39593
4977+00	50.00	527	0	0	986	0	0	60744	18897	40814
4977+50	50.00	488	0	36	940	0	34	61684	18937	41891
4978+00	50.00	451	0	3	870	0	37	62554	18981	42833
4978+50	50.00	491	0	0	872	0	3	63426	18985	43770
4979+00	50.00	534	0	0	949	0	0	64375	18985	44640
4979+50	50.00	556	0	0	1009	0	0	65384	18985	45512
4980+00	50.00	555	0	0	1029	0	0	66413	18985	46461
4980+50	50.00	548	0	0	1021	0	0	67434	18985	47470
4981+00	50.00	569	0	0	1034	0	0	68468	18985	48498
4981+50	50.00	528	0	0	1015	0	0	69483	18985	49519
4982+00	50.00	492	0	0	944	0	0	70427	18985	50553
4982+50	50.00	468	0	0	889	0	0	71316	18985	51569
4983+00	50.00	426	0	0	828	0	0	72145	18985	52513
4983+50	50.00	373	0	0	740	0	0	72884	18985	53402
4984+00	50.00	362	0	0	680	0	0	73564	18985	54230
4984+50	50.00	261	0	0	576	0	0	74140	18985	54970
4985+00	50.00	174	0	9	402	0	8	74543	18995	55640
4985+50	50.00	150	0	38	300	0	43	74842	19046	56165
4986+00	50.00	141	0	47	269	0	79	75111	19140	56473
4986+50	50.00	143	0	47	263	0	88	75374	19245	56668
4987+00	50.00	141	0	40	263	0	80	75638	19342	56840
4987+50	50.00	77	0	35	202	0	69	75840	19425	57020
4988+00	50.00	47	0	38	115	0	68	75954	19507	57202
4988+50	50.00	36	0	48	77	0	80	76031	19603	57308
4989+00	50.00	28	0	63	59	0	103	76091	19726	57299
4989+50	50.00	20	0	70	45	0	123	76136	19874	57228
4990+00	50.00	15	0	172	32	0	224	76168	20142	57019
4990+50	50.00	8	0	158	21	0	305	76189	20509	56698
4991+00	50.00	7	0	204	14	0	335	76203	20910	56328
4991+50	50.00	14	0	156	20	0	333	76223	21310	55949

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WEST FRONTAGE ROAD										
		AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)		
STATION	Distance	Cut	Salvaged/ Unusable Pavement Material	Fill	Cut	Salvaged/Unusable Pavement Material	Fill	Cut 1.00	Expanded Fill 1.20	Mass Ordinate
4992+00	50.00	21	0	114	32	0	250	76255	21610	55664
4992+50	50.00	29	0	95	46	0	194	76301	21842	55451
4993+00	50.00	39	0	79	63	0	161	76364	22035	55291
4993+50	50.00	41	0	72	74	0	139	76438	22202	55170
4994+00	50.00	34	0	74	69	0	135	76507	22364	55071
4994+50	50.00	42	0	69	70	0	133	76577	22524	54985
4995+00	50.00	35	0	82	72	0	140	76649	22692	54885
4995+50	50.00	21	0	104	52	0	172	76700	22898	54749
4996+00	50.00	15	0	126	33	0	213	76733	23154	54565
4996+50	50.00	18	0	148	30	0	254	76763	23459	54312
4997+00	50.00	41	0	195	54	0	318	76817	23840	53964
4997+50	50.00	22	0	207	58	0	373	76875	24287	53547
4998+00	50.00	27	0	228	46	0	403	76921	24771	53117
4998+50	50.00	32	0	251	55	0	444	76976	25303	52643
4999+00	50.00	43	0	273	69	0	485	77044	25886	52106
4999+50	50.00	56	0	238	91	0	473	77135	26454	51593
5000+00	50.00	74	0	206	120	0	411	77255	26947	51168
5000+50	50.00	58	0	208	122	0	384	77376	27407	50799
5001+00	50.00	79	0	234	127	0	409	77503	27898	50427
5001+50	50.00	96	0	272	162	0	468	77665	28460	49987
5002+00	50.00	120	0	270	200	0	501	77865	29062	49512
5002+50	50.00	131	0	11	232	0	260	78097	29373	49363
5003+00	50.00	139	0	12	249	0	21	78347	29399	49537
5003+50	50.00	112	0	0	232	0	11	78579	29412	49756
5004+00	50.00	329	0	8	408	0	7	78987	29420	49997
5004+50	50.00	476	0	3	745	0	10	79732	29432	50218
5005+00	50.00	606	0	1	1001	0	3	80734	29436	50622
5005+50	50.00	670	0	0	1182	0	1	81916	29437	51366
5006+00	50.00	723	0	0	1290	0	0	83206	29437	52367
5006+50	50.00	668	0	0	1288	0	0	84494	29437	53549
5007+00	50.00	528	0	0	1107	0	0	85601	29437	54839
5007+50	50.00	374	0	0	835	0	0	86435	29437	56127
5008+00	50.00	270	0	0	596	0	0	87031	29437	57234
5008+50	50.00	215	0	0	449	0	0	87480	29437	58069
5009+00	50.00	179	0	0	365	0	0	87845	29437	58664
5009+50	50.00	187	0	0	339	0	0	88184	29437	59113
5010+00	50.00	203	0	0	361	0	0	88546	29437	59479
5010+50	50.00	298	0	0	464	0	0	89010	29437	59818
5011+00	50.00	313	0	0	566	0	0	89575	29437	60179
5011+50	50.00	320	0	0	586	0	0	90161	29437	60643
5012+00	50.00	300	0	0	574	0	0	90736	29437	61209
5012+50	50.00	357	0	0	608	0	0	91344	29437	61795
5013+00	50.00	368	0	0	671	0	0	92015	29437	62369
5013+50	50.00	359	0	0	673	0	0	92688	29437	62977
5014+00	50.00	338	0	0	646	0	0	93334	29437	63649
5014+50	50.00	265	0	0	558	0	0	93892	29437	64322
5015+00	50.00	241	0	5	468	0	4	94360	29443	64962
5015+50	50.00	237	0	23	443	0	26	94803	29474	65489
5016+00	50.00	216	0	33	419	0	52	95222	29536	65895
5016+50	50.00	193	0	33	378	0	61	95600	29609	66264

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WEST FRONTAGE ROAD

STATION	Distance	AREA (SF) Cut	AREA (SF) Salvaged/ Unusable Pavement Material	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Salvaged/Unusable Pavement Material	Incremental Vol (CY) (Unadjusted) Fill	Cumulative Vol (CY) Cut 1.00	Cumulative Vol (CY) Expanded Fill 1.20	Mass Ordinate
5017+00	50.00	169	0	76	335	0	101	95935	29731	66562
5017+50	50.00	148	0	107	294	0	170	96228	29935	66736
5018+00	50.00	122	0	140	250	0	229	96478	30210	66796
5018+50	50.00	130	0	146	233	0	265	96711	30528	66771
5019+00	50.00	129	0	166	240	0	289	96952	30875	66674
5019+50	50.00	122	0	208	233	0	346	97185	31291	66491
5020+00 BK	50.00	10	0	138	123	0	320	97307	31675	66348
2020+50 AH	50.00	56	0	6	62	0	134	97369	31836	66420
2021+00	50.00	63	0	67	111	0	68	97480	31917	66461
2021+50	50.00	73	0	45	126	0	103	97605	32041	66399
2022+00	50.00	94	0	16	154	0	57	97759	32109	66441
2022+50	50.00	112	0	8	191	0	22	97950	32136	66540
2023+00	50.00	151	0	3	244	0	10	98193	32147	66682
2023+50	50.00	186	0	1	312	0	3	98505	32151	66869
2024+00	50.00	183	0	1	341	0	1	98847	32152	67112
2024+50	50.00	170	0	0	326	0	0	99173	32153	67423
2025+00	50.00	140	0	1	287	0	1	99460	32154	67763
2025+50	50.00	137	0	25	256	0	24	99716	32184	68060
2026+00	50.00	139	0	57	255	0	76	99971	32275	68256
2026+50	50.00	168	0	80	284	0	127	100255	32426	68360
2027+00	50.00	116	0	92	263	0	159	100518	32617	68425
2027+50	50.00	128	0	89	226	0	168	100743	32819	68507
2028+00	50.00	140	0	82	248	0	158	100991	33009	68580
2028+50	50.00	150	0	98	268	0	166	101259	33208	68606
2029+00	50.00	110	0	17	241	0	106	101500	33336	68726
2029+50	50.00	122	0	0	215	0	16	101715	33355	68975
2030+00	50.00	106	0	34	211	0	32	101926	33394	69177
2030+25 BK	25.00	23	0	193	59	0	105	101986	33520	69158
					101986	0	27933			

9

9

PROJECT NO: 1030-11-78 | HWY: IH 94 | COUNTY: RACINE | EARTHWORK - WEST FRONTAGE ROAD | SHEET 341 HOL | E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090101_ew.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:200

KRAUT ROAD

STATION		Distance	AREA (SF) Cut	AREA (SF) Salvaged/Unusable Pavement Material	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Salvaged/Unusable Pavement Material	Incremental Vol (CY) (Unadjusted) Fill	Cumulative Vol (CY) Cut 1.00	Cumulative Vol (CY) Expanded Fill 1.20	Mass Ordinate
49+75	AH		58	0	0	0	0	0	0	0	0
50+00		25.00	51	0	2	50	0	1	50	1	49
50+30		30.00	142	0	2	107	0	2	157	4	153
50+85		55.00	92	0	142	238	0	146	395	180	215
51+00		15.00	75	0	50	46	0	53	441	243	198
51+50		50.00	72	0	3	136	0	49	577	302	275
51+60		10.00	75	0	3	27	0	1	604	303	301
52+00		40.00	77	0	1	113	0	3	717	306	410
52+20	BK	20.00	56	0	0	49	0	0	766	307	459
						766	0	256			

GOLF ROAD

STATION		Distance	AREA (SF) Cut	AREA (SF) Salvaged/Unusable Pavement Material	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Salvaged/Unusable Pavement Material	Incremental Vol (CY) (Unadjusted) Fill	Cumulative Vol (CY) Cut 1.00	Cumulative Vol (CY) Expanded Fill 1.25	Mass Ordinate
69+73	AH		64	0	0	0	0	0	0	0	0
70+00		27.00	79	0	4	72	0	2	72	3	69
71+00		100.00	154	0	72	432	0	141	504	179	325
71+50		50.00	112	0	0	247	0	67	751	263	488
72+00	BK	50.00	59	0	0	159	0	0	910	263	647
						910	0	210			

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PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	EARTHWORK - KRAUT ROAD, GOLF ROAD	SHEET 342	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090101_ew.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:200

EVANS LANE

STATION		Real Station	AREA (SF) Cut	AREA (SF) Salvaged/Unusable Pavement Material	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Salvaged/Unusable Pavement Material	Incremental Vol (CY) (Unadjusted) Fill	Cumulative Vol (CY) Cut 1.00	Cumulative Vol (CY) Expanded Fill 1.25	Mass Ordinate
80+75	AH	8075.00	58	0	0	0	0	0	0	0	0
81+00		8100.00	142	0	0	93	0	0	93	0	93
81+50		8150.00	162	0	0	281	0	0	374	0	374
82+00		8200.00	100	0	0	242	0	0	616	0	616
82+50		8250.00	136	0	13	218	0	12	834	15	819
82+55		8255.00	149	0	11	26	0	2	860	18	843
82+72	BK	8272.00	185	0	11	105	0	7	966	27	939
						966	0	21			

KRAUT ROAD

STATION		Distance	AREA (SF) Cut	AREA (SF) Salvaged/ Unusable Pavement Material	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Salvaged/Unusable Pavement Material	Incremental Vol (CY) (Unadjusted) Fill	Cumulative Vol (CY) Cut 1.00	Cumulative Vol (CY) Expanded Fill 1.20	Mass Ordinate
46+16	AH		60	0	0	0	0	0	0	0	0
46+50		34.00	92	0	2	96	0	1	96	1	94
47+00		50.00	103	0	55	180	0	53	276	64	212
48+00		100.00	103	0	0	381	0	102	657	187	471
48+31	BK	31.00	66	0	0	97	0	0	754	187	568
						754	0	156			

2 MILE ROAD

STATION		Distance	AREA (SF) Cut	AREA (SF) Salvaged/ Unusable Pavement Material	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Salvaged/Unusable Pavement Material	Incremental Vol (CY) (Unadjusted) Fill	Cumulative Vol (CY) Cut 1.00	Cumulative Vol (CY) Expanded Fill 1.25	Mass Ordinate
8+70	AH		64	0	0	0	0	0	0	0	0
9+00		30.00	134	0	0	110	0	0	110	0	110
9+50		50.00	224	0	36	331	0	33	440	41	399
9+75	BK	25.00	124	0	21	161	0	26	601	74	527
						601	0	59			

GOLF ROAD

STATION		Distance	AREA (SF) Cut	AREA (SF) Salvaged/Unusable Pavement Material	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Salvaged/Unusable Pavement Material	Incremental Vol (CY) (Unadjusted) Fill	Cumulative Vol (CY) Cut 1.00	Cumulative Vol (CY) Expanded Fill 1.20	Mass Ordinate
67+55	AH		135	0	0	0	0	0	0	0	0
68+00	BK	45.00	78	0	0	178	0	0	178	0	178
						178	0	0			

NICHOLAS ROAD

STATION		Distance	AREA (SF) Cut	AREA (SF) Salvaged/ Unusable Pavement Material	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Salvaged/Unusable Pavement Material	Incremental Vol (CY) (Unadjusted) Fill	Cumulative Vol (CY) Cut 1.00	Cumulative Vol (CY) Expanded Fill 1.25	Mass Ordinate
18+00	AH		62	0	1	0	0	0	0	0	0
18+50		50.00	61	0	1	114	0	2	114	2	112
19+00		50.00	41	0	18	94	0	18	208	24	184
19+50		50.00	30	0	116	66	0	124	274	179	95
19+76	BK	26.00	0	0	253	15	0	178	288	401	-113
						288	0	321			

3 MILE ROAD

STATION		Distance	AREA (SF) Cut	AREA (SF) Salvaged/Unusable Pavement Material	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Salvaged/Unusable Pavement Material	Incremental Vol (CY) (Unadjusted) Fill	Cumulative Vol (CY) Cut 1.00	Cumulative Vol (CY) Expanded Fill 1.25	Mass Ordinate
27+25	AH		58.50	0.00	0.00	0	0.00	0	0.00	0.00	0.00
27+50		25.00	72.00	0.00	0.10	60.42	0.00	0.05	60.42	0.06	60.36
28+00		50.00	66.90	0.00	2.60	128.61	0.00	2.50	189.03	3.18	179.09
28+50		50.00	66.20	0.00	19.20	123.24	0.00	20.19	312.27	28.41	275.89
28+75		25.00	89.10	0.00	31.00	71.90	0.00	23.24	384.17	57.47	318.74
29+00		25.00	74.30	0.00	54.80	75.65	0.00	39.72	459.81	107.12	344.73
29+50		50.00	129.30	0.00	159.70	188.52	0.00	198.61	459.81	355.38	284.99
29+75	BK	25.00	28.00	0.00	163.20	72.82	0.00	149.49	532.64	542.25	169.61
						721.16	0.00	433.80			

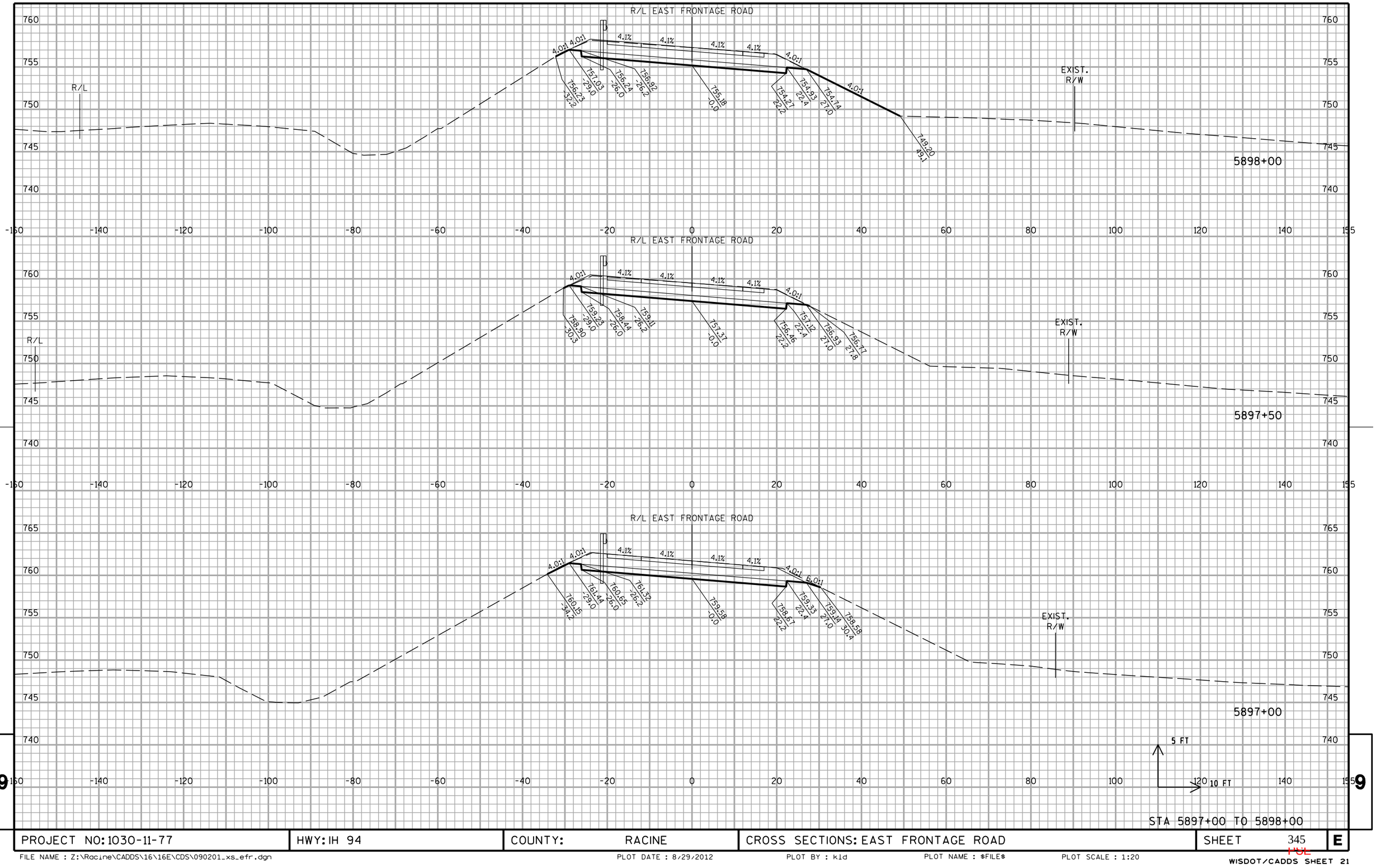
9

9

PROJECT NO: 1030-11-77 | HWY: IH 94 | COUNTY: RACINE | EARTHWORK - GOLF ROAD, NICHOLAS ROAD, 3 MILE ROAD | SHEET 344 | E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090101_ew.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:200

10301177-00008RDAPERM

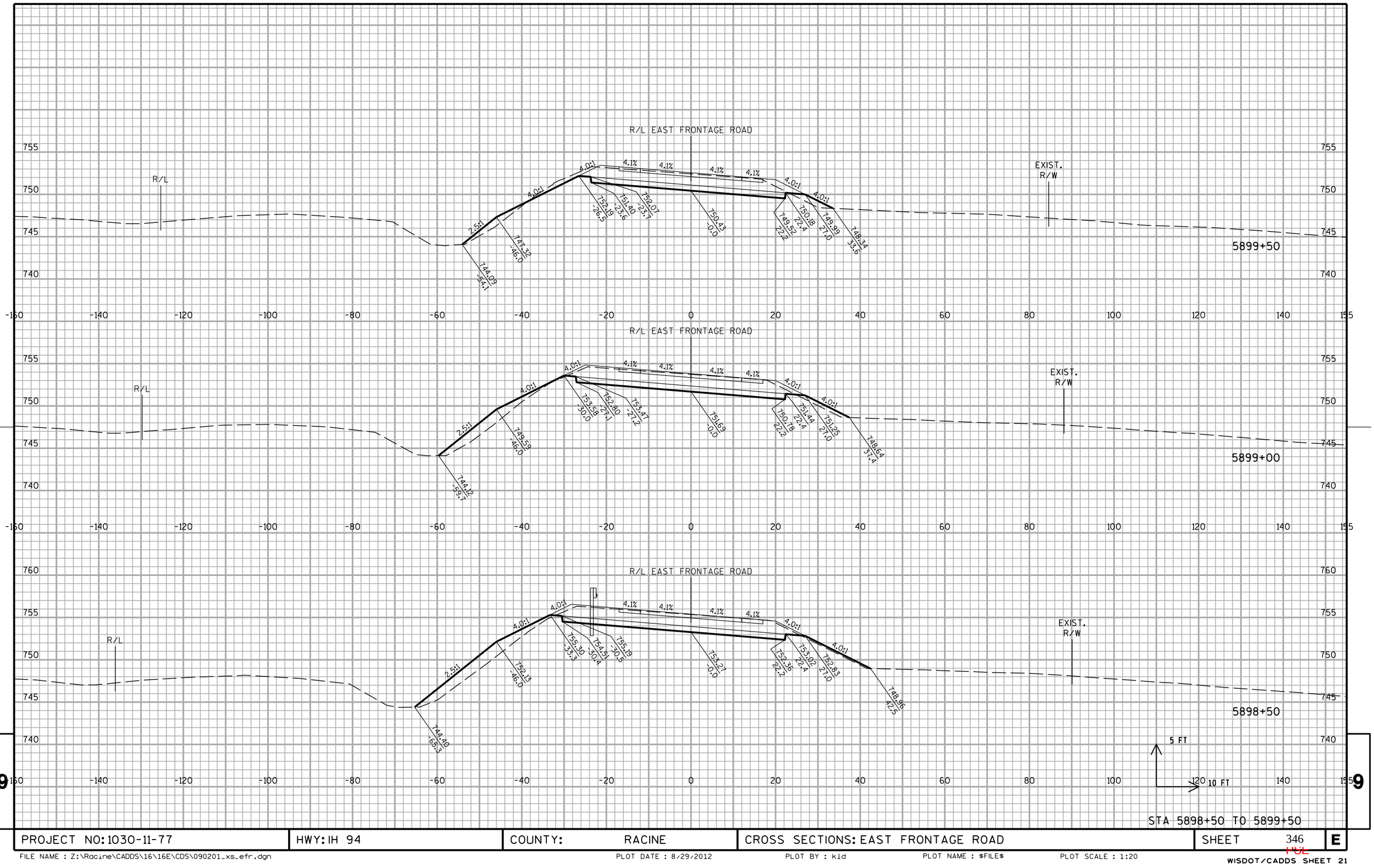


STA 5897+00 TO 5898+00

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 345	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : $FILE$ | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

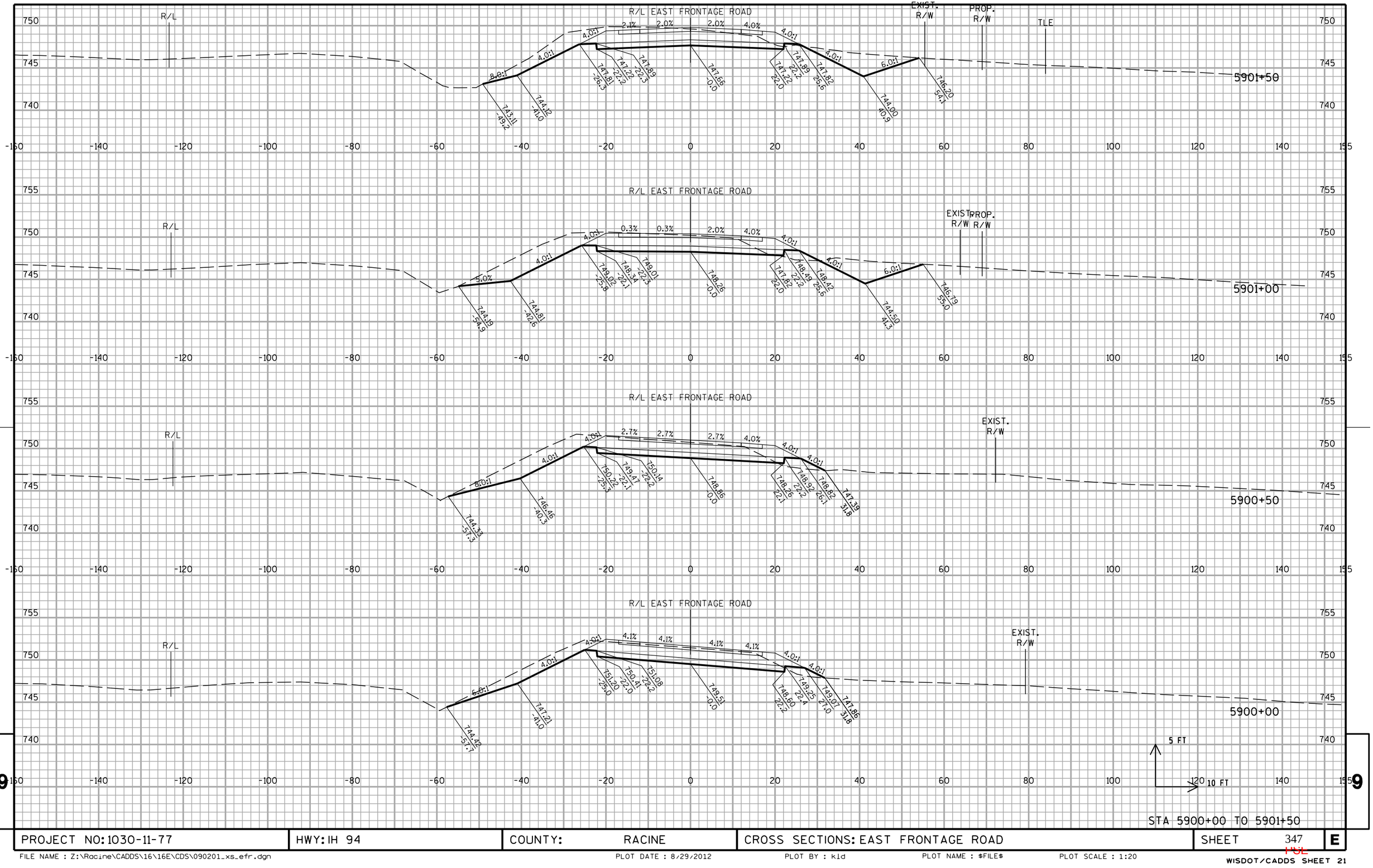


PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 346	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

10301177-00008RDAPERM

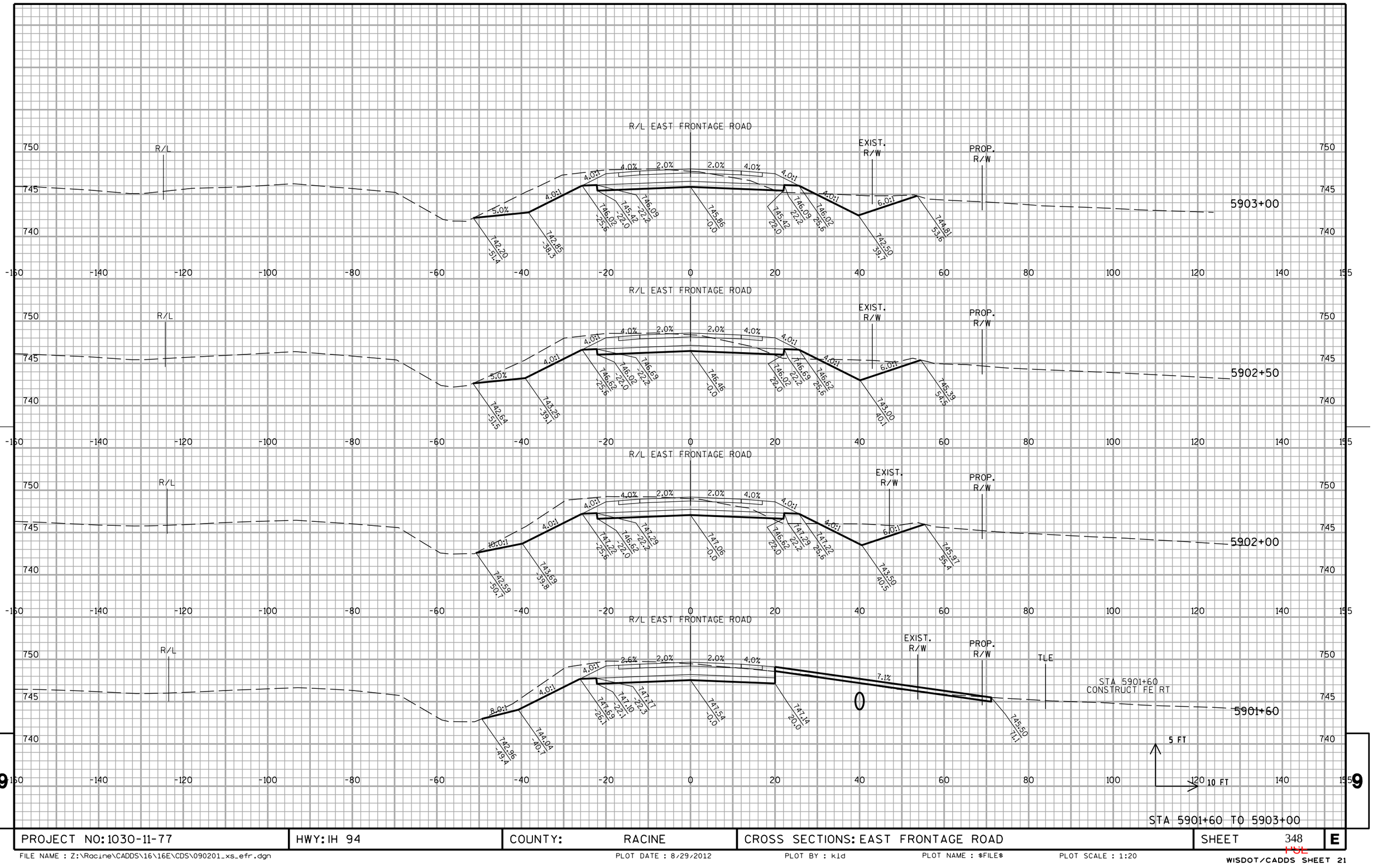


PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 347	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

10301177-00008RDAPERM

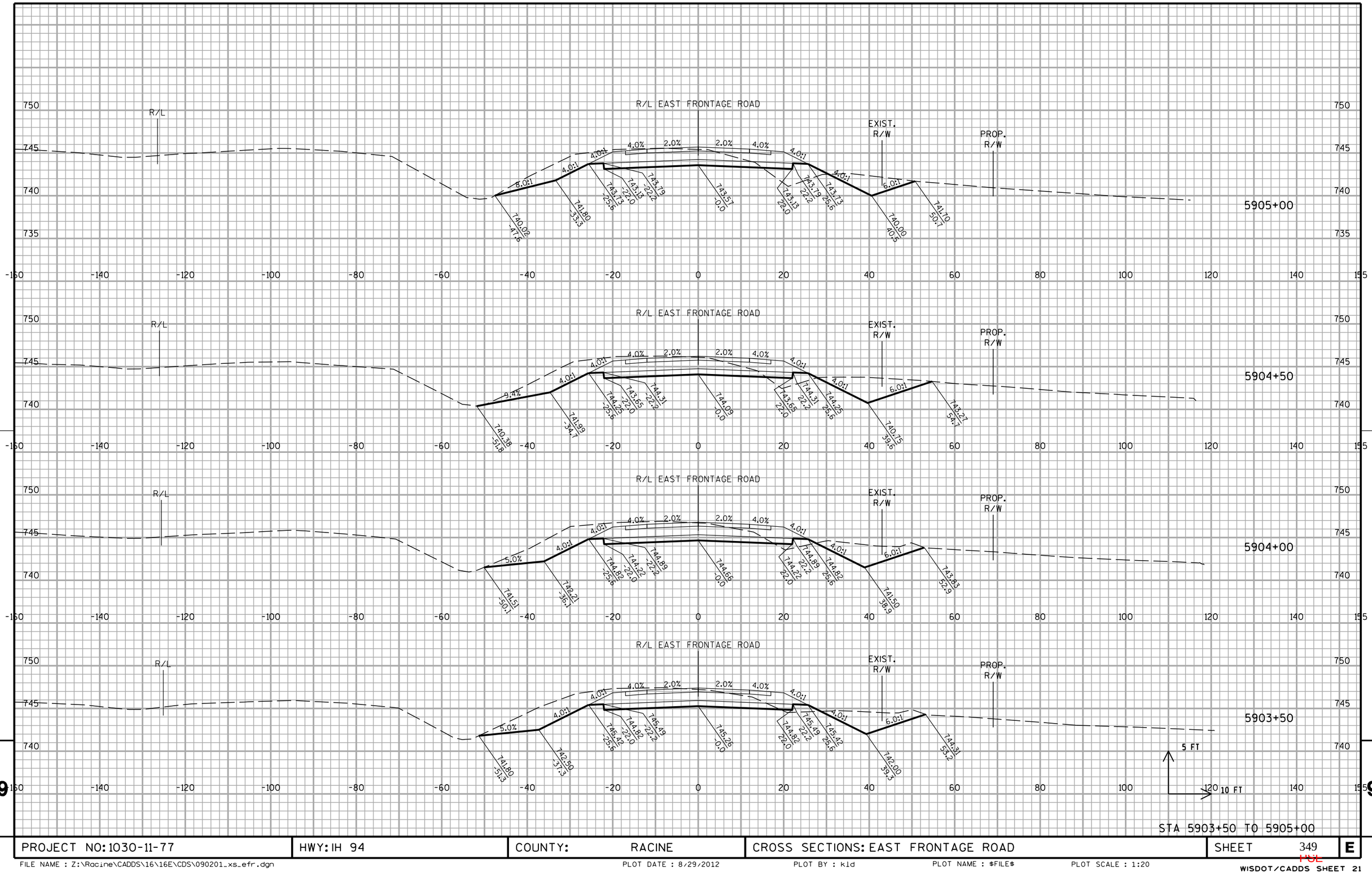


PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 348	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

10301177-00008RDAPERM

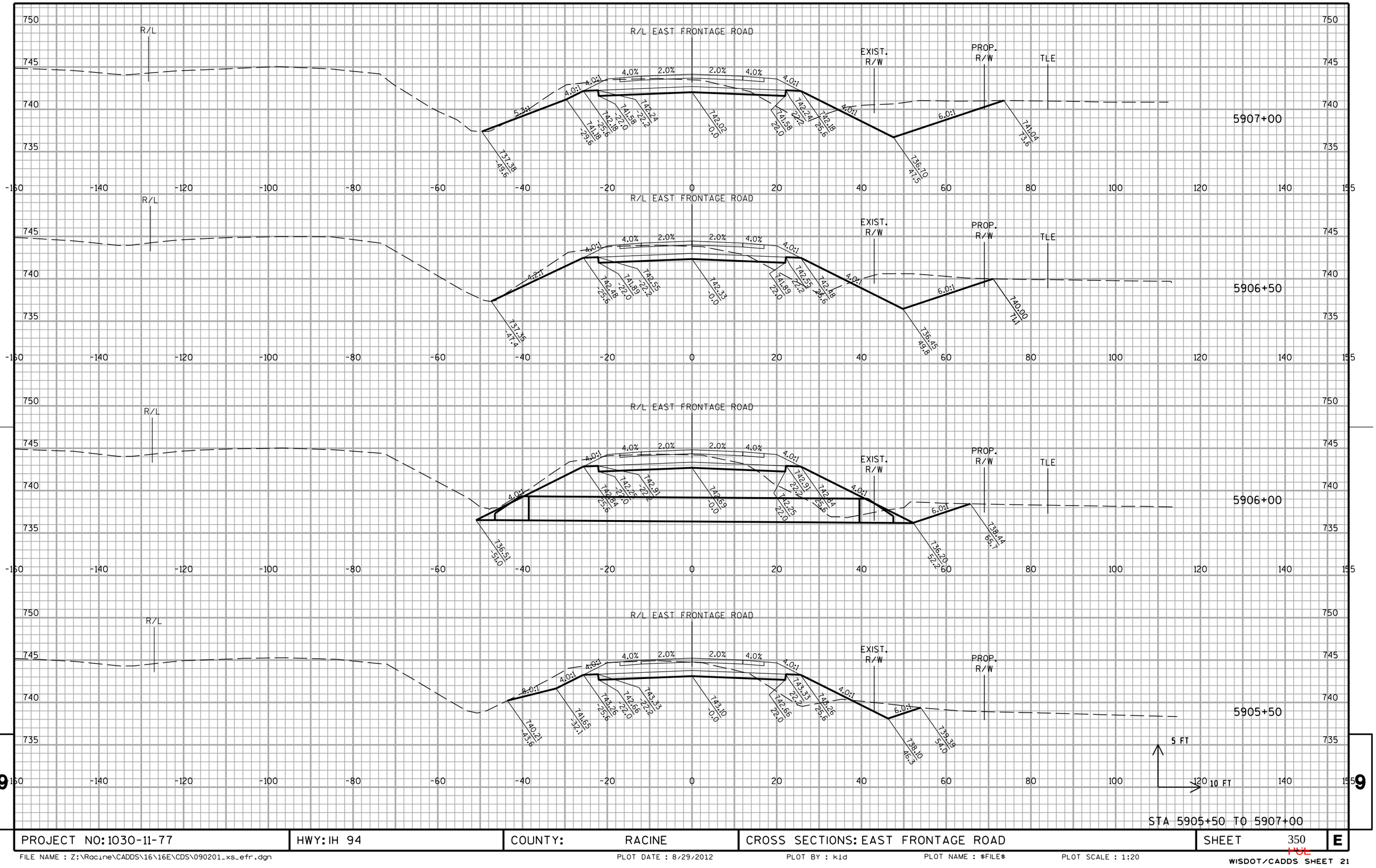


STA 5903+50 TO 5905+00

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 349	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:20

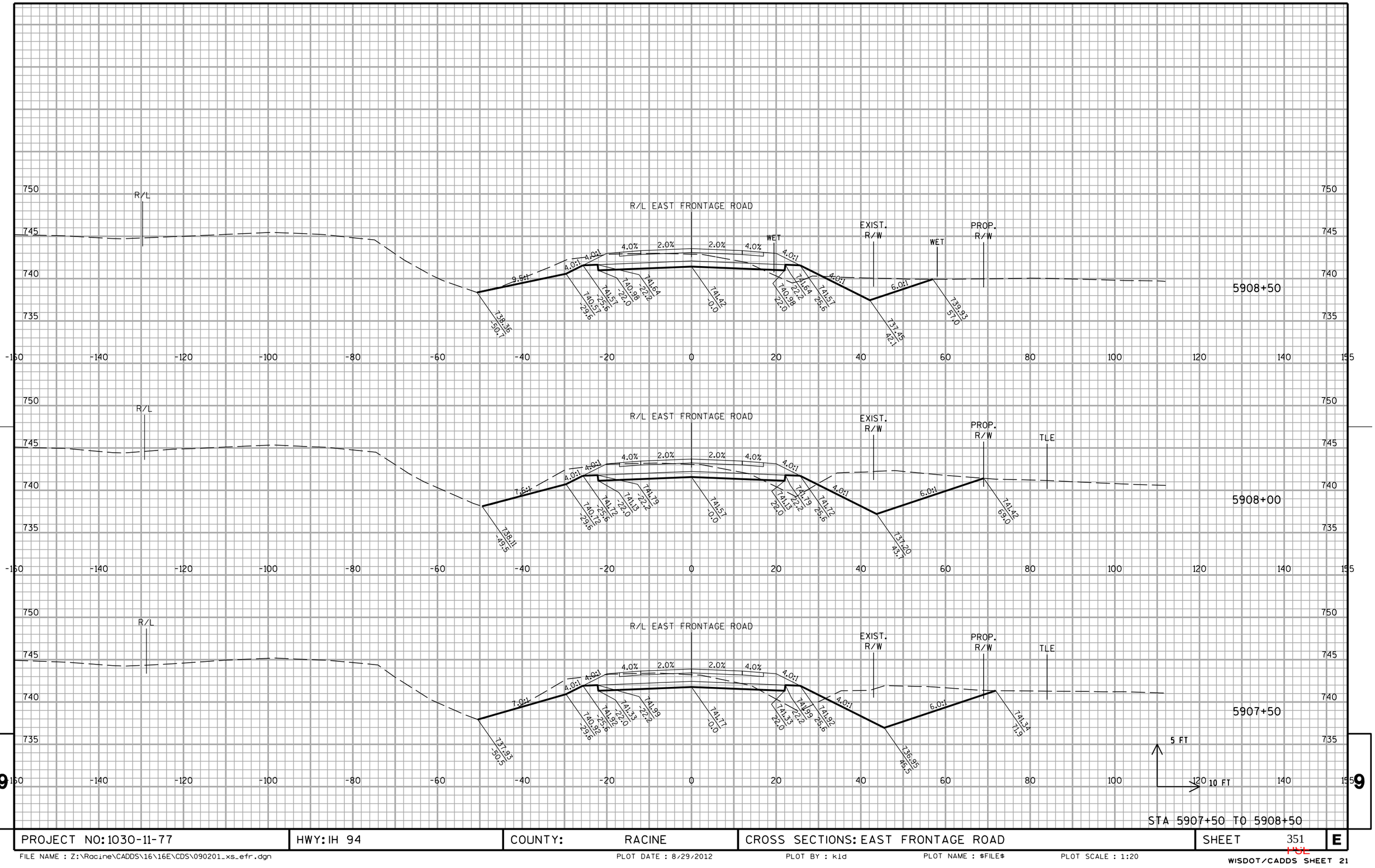
WISDOT/CADDS SHEET 21



PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 350	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

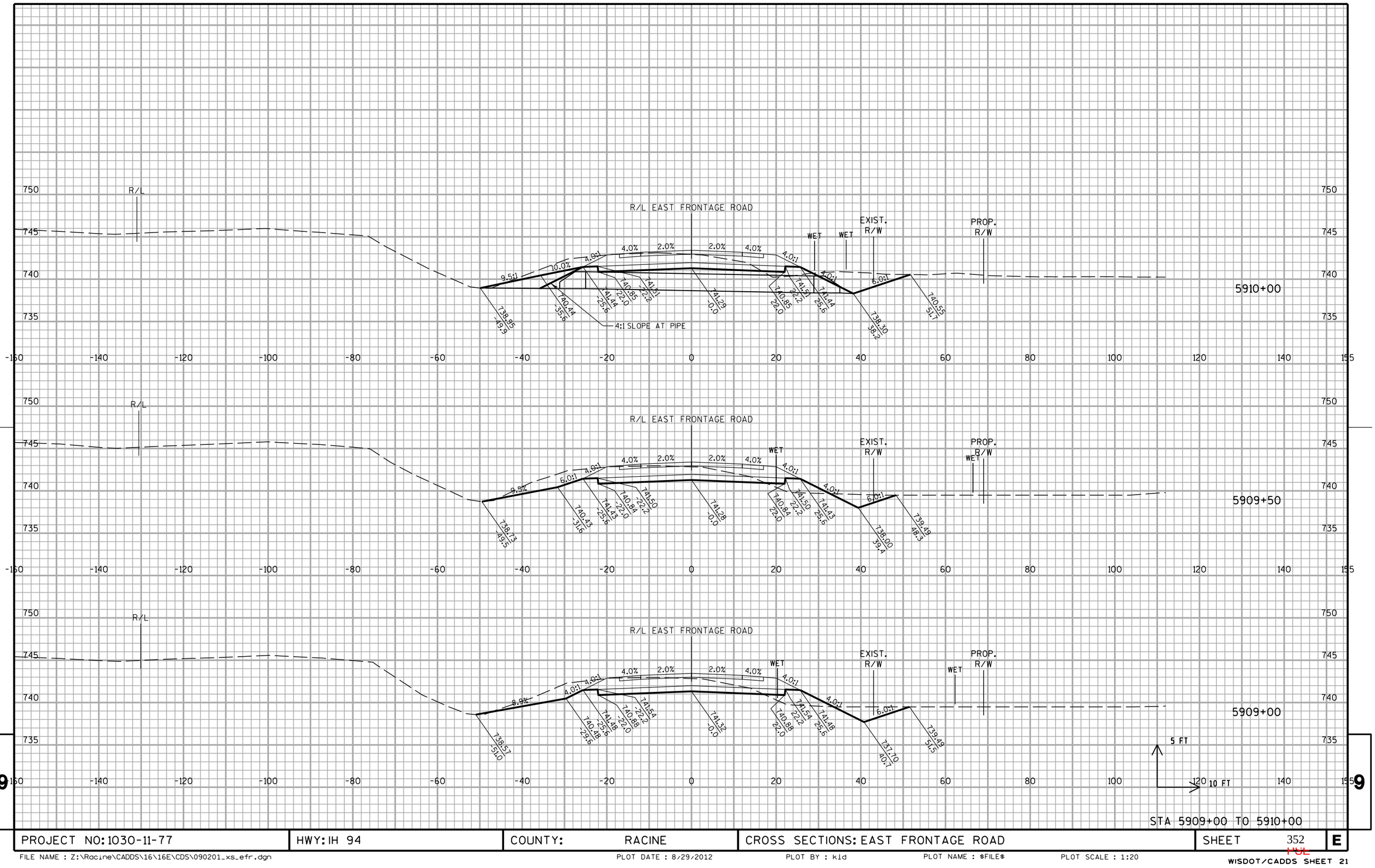


STA 5907+50 TO 5908+50

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 351	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

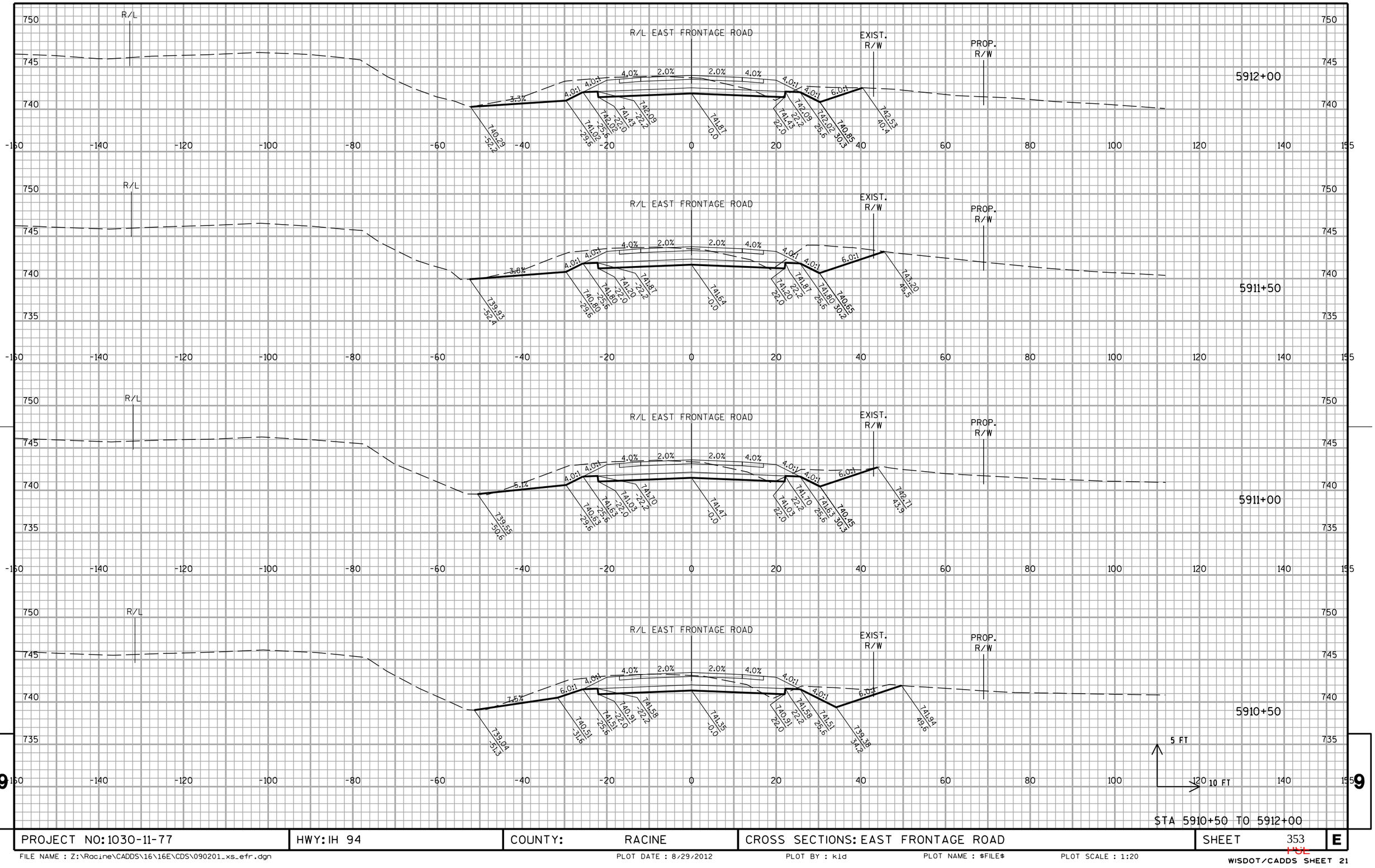


STA 5909+00 TO 5910+00

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 352	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : $FILE$ | PLOT SCALE : 1:20

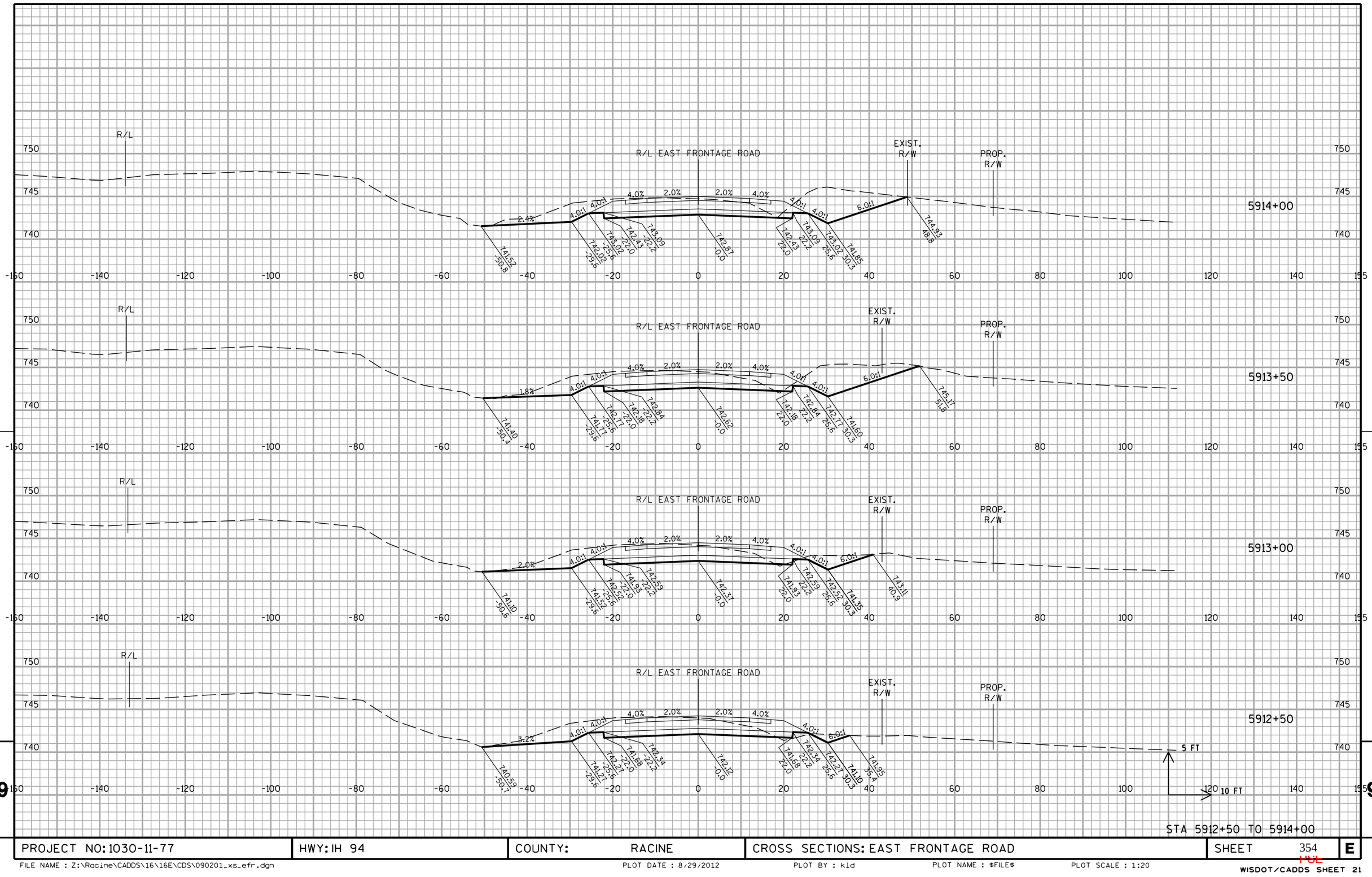
WISDOT/CADDS SHEET 21



STA 5910+50 TO 5912+00

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 353	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:20

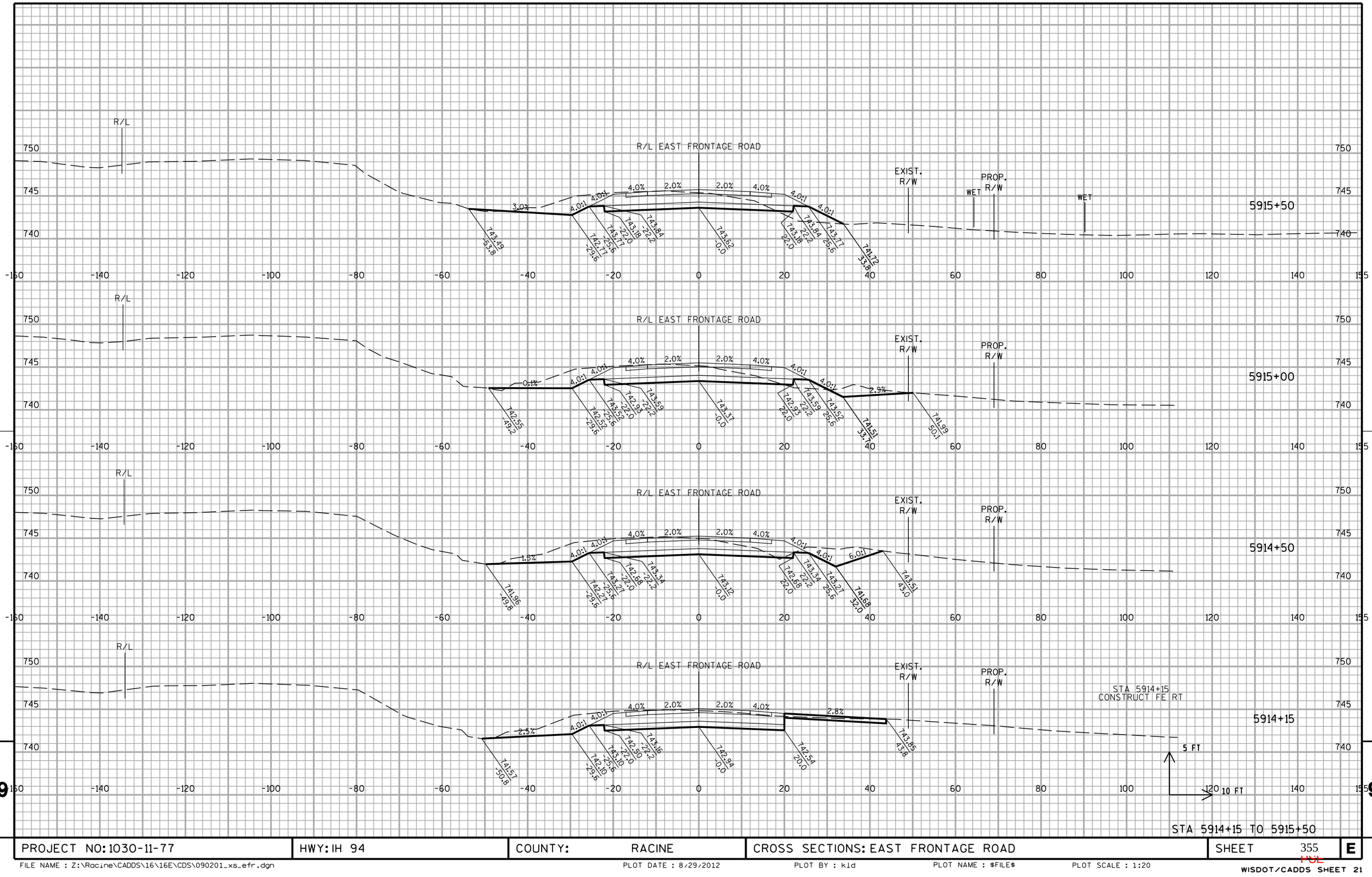


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PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 354	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:20

10301177-00008RDAPERM



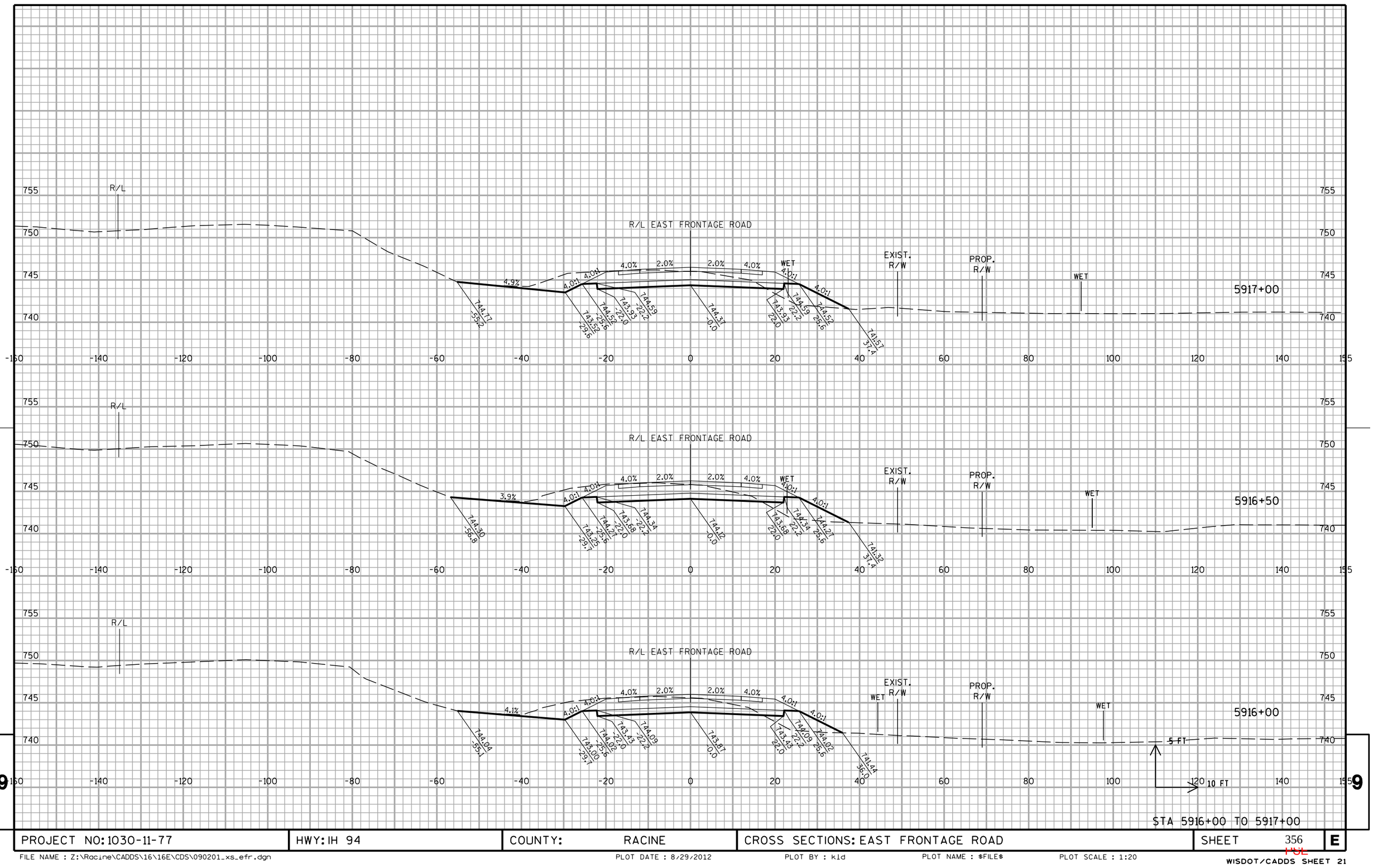
STA 5914+15 TO 5915+50

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 355	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : $FILE$ | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

10301177-00008RDAPERM

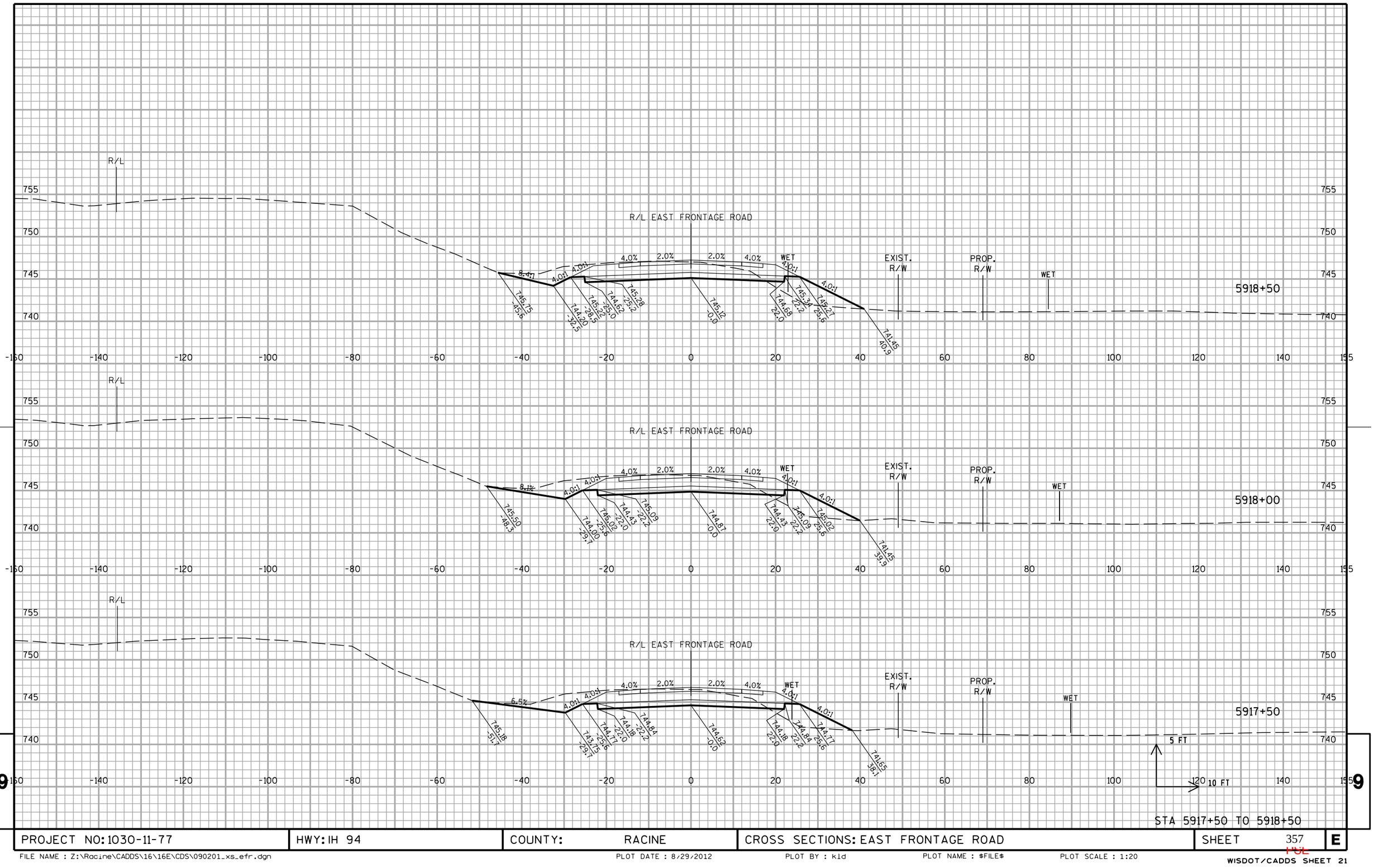


STA 5916+00 TO 5917+00

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 356	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



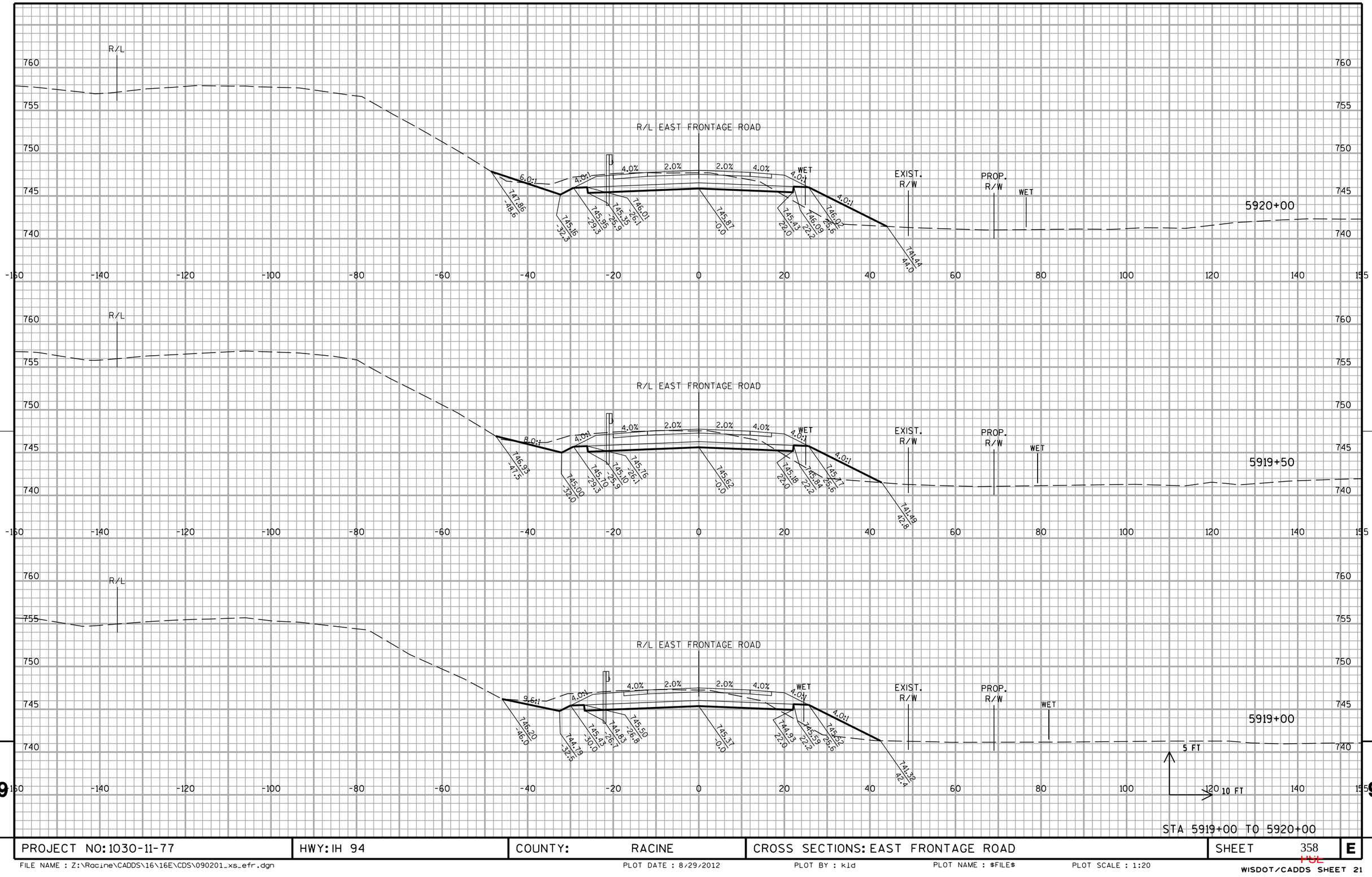
STA 5917+50 TO 5918+50

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 357	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

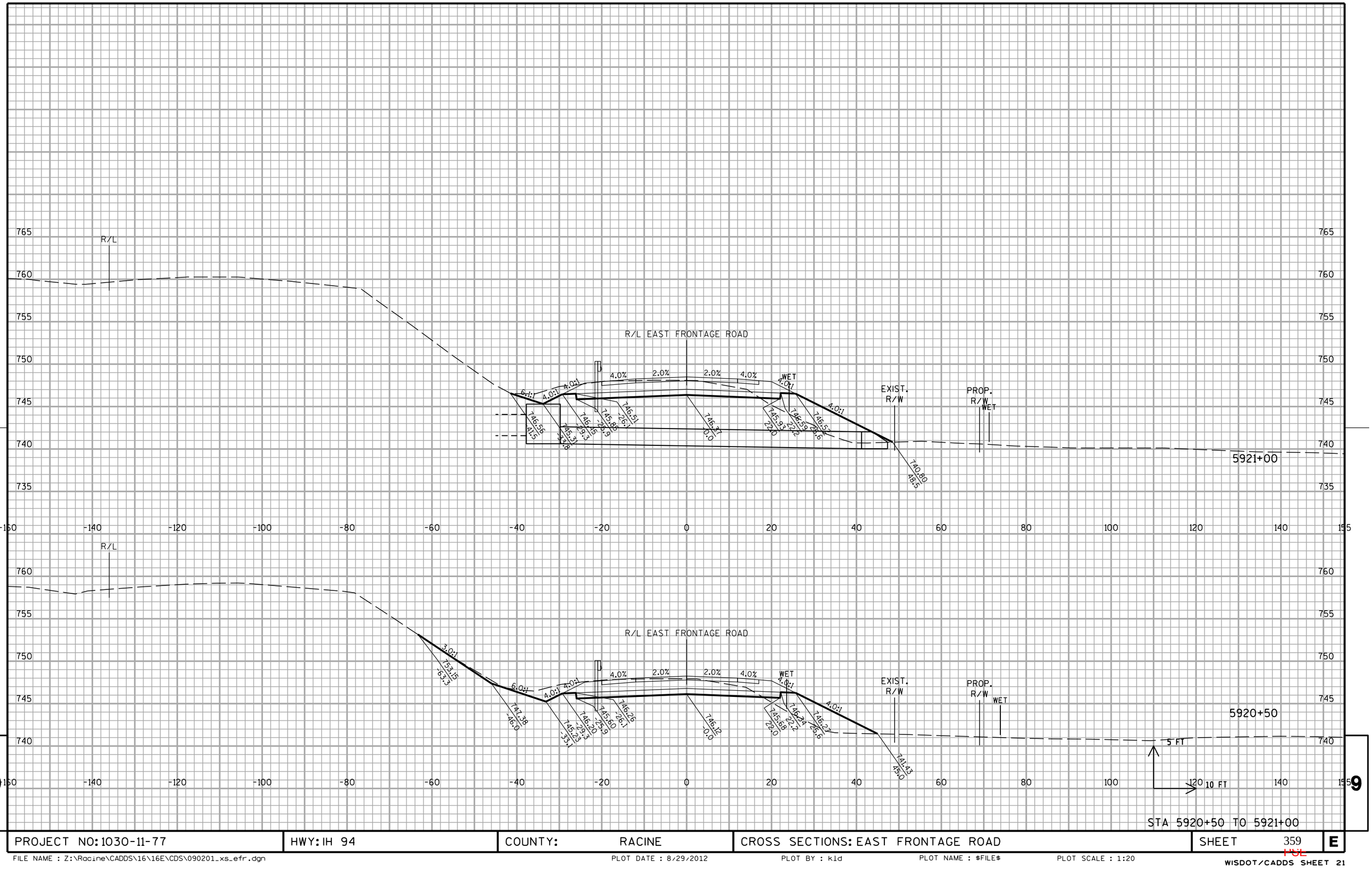
10301177-00008RDAPERM



PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 358	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

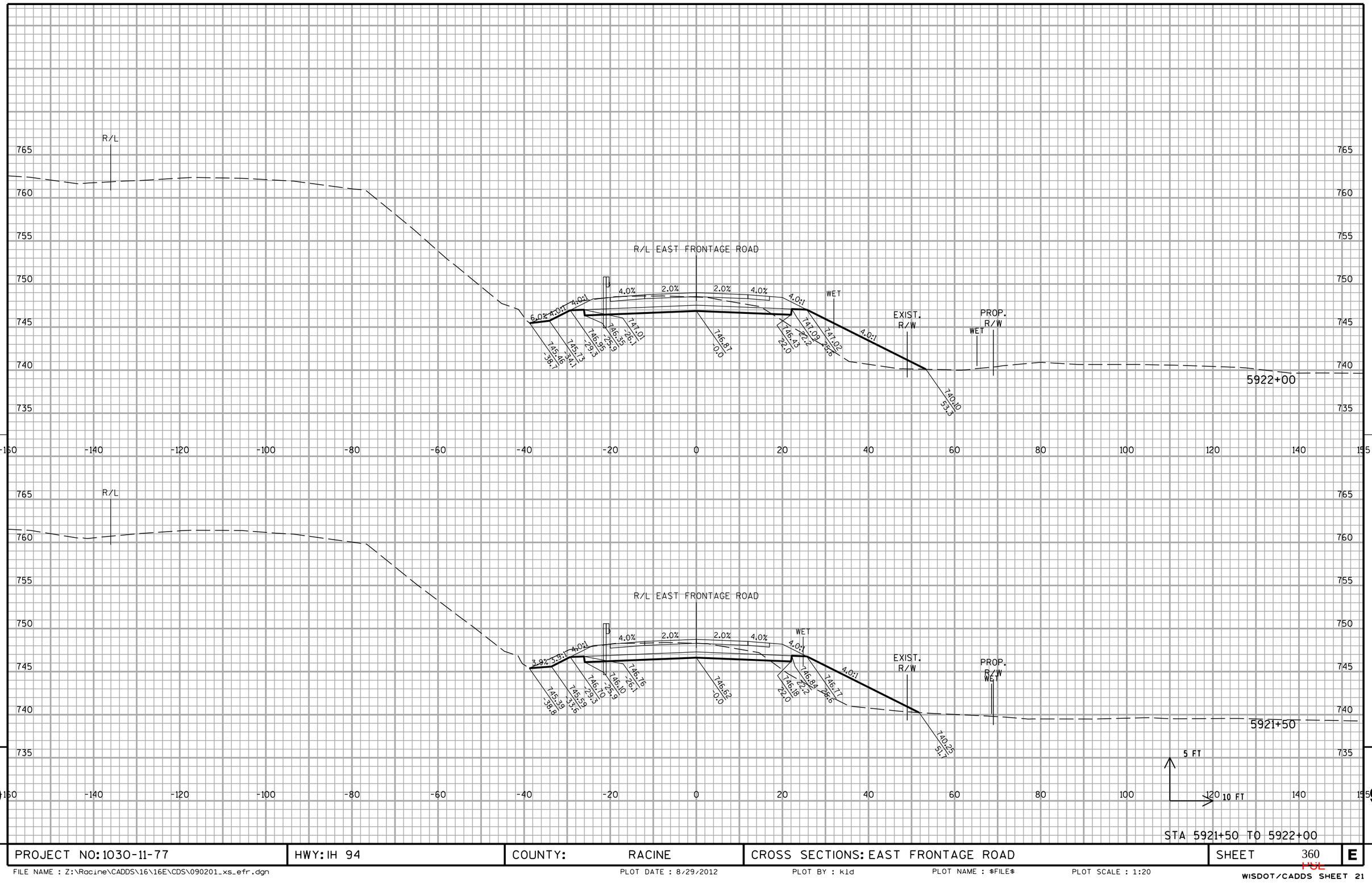


STA 5920+50 TO 5921+00

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 359	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

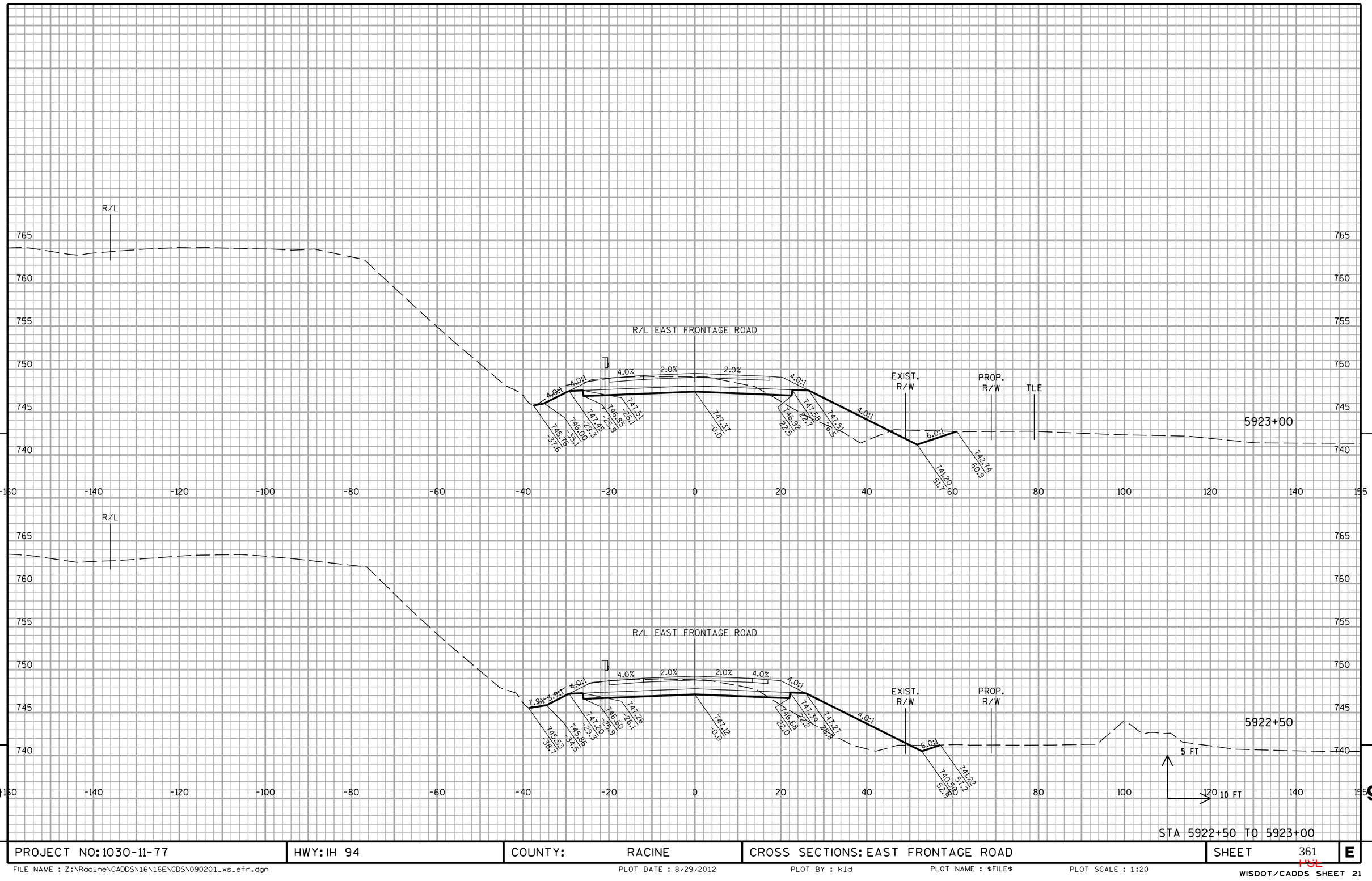


STA 5921+50 TO 5922+00

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 360	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:20

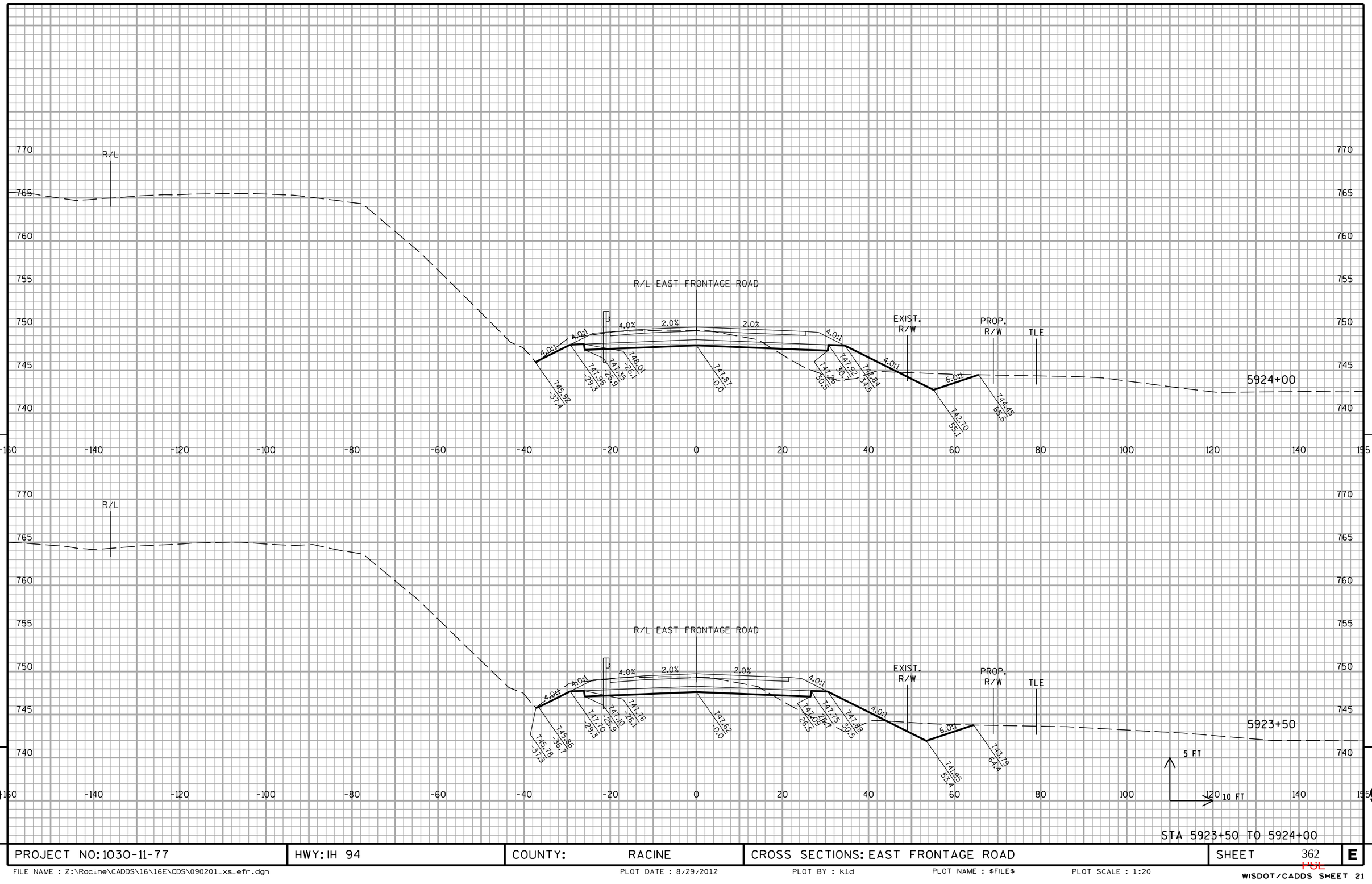
WISDOT/CADDS SHEET 21



STA 5922+50 TO 5923+00

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 361	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:20

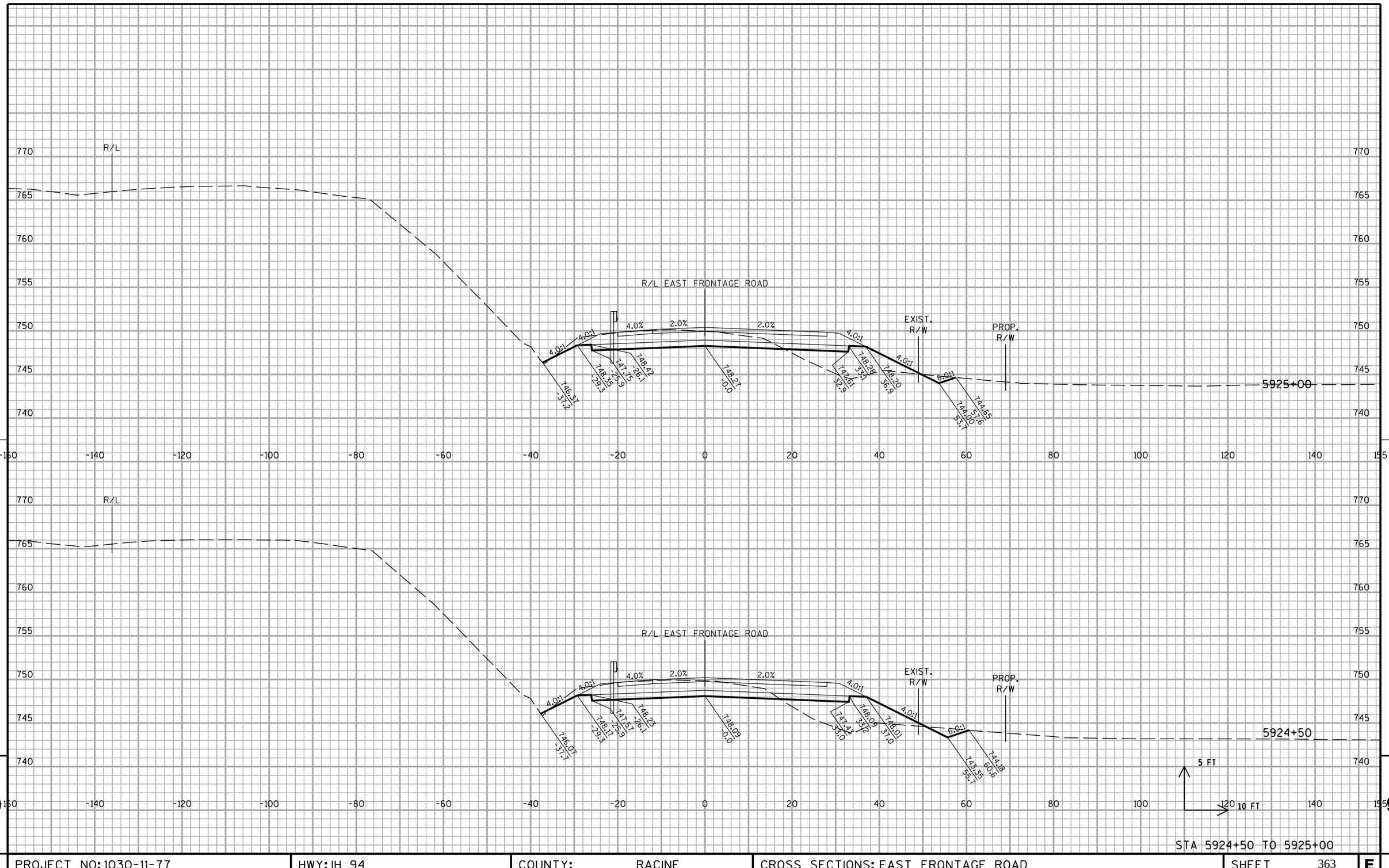


STA 5923+50 TO 5924+00

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 362	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : $FILE$ | PLOT SCALE : 1:20

10301177-00008RDAPERM

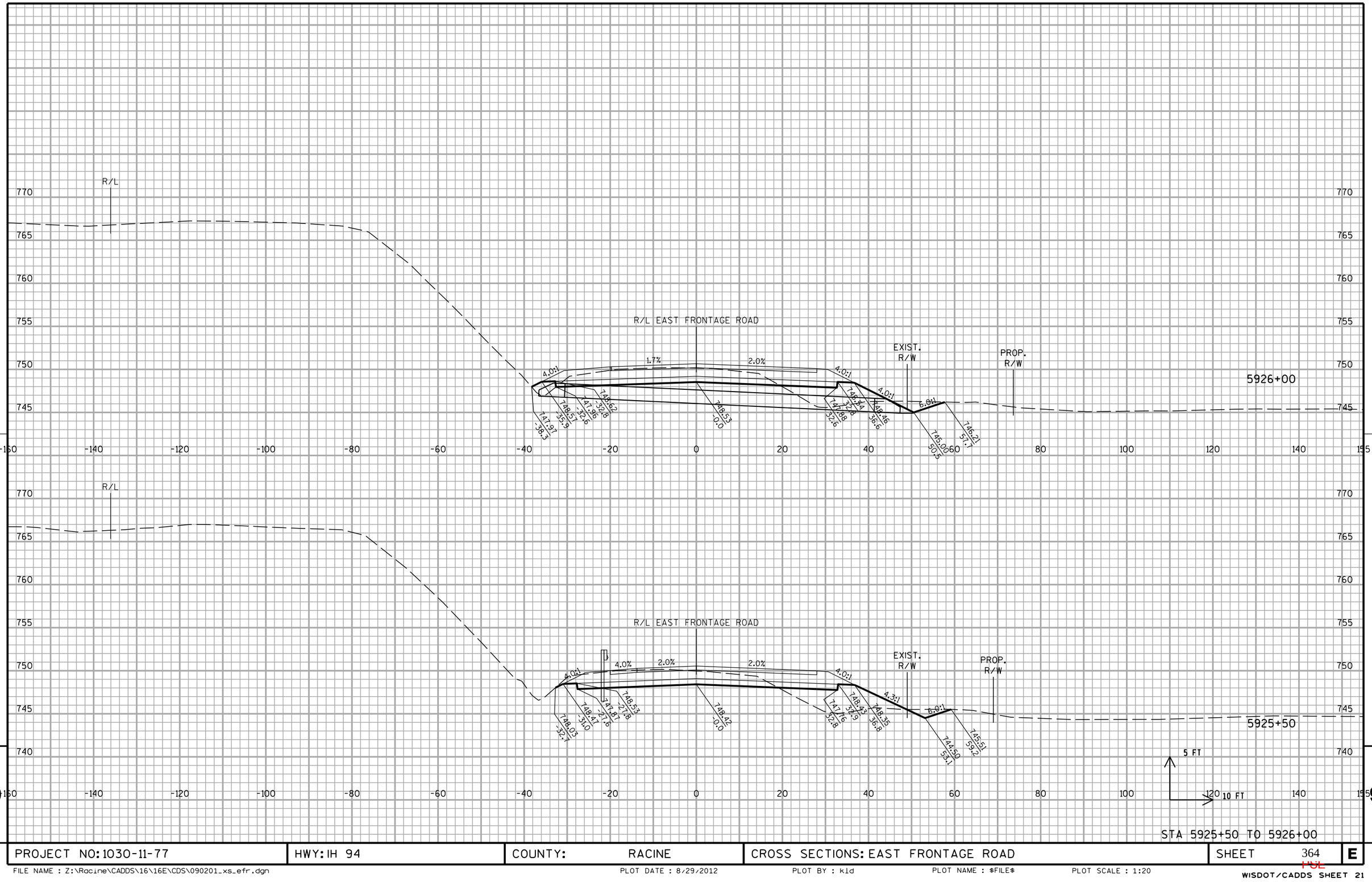


STA 5924+50 TO 5925+00

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 363	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

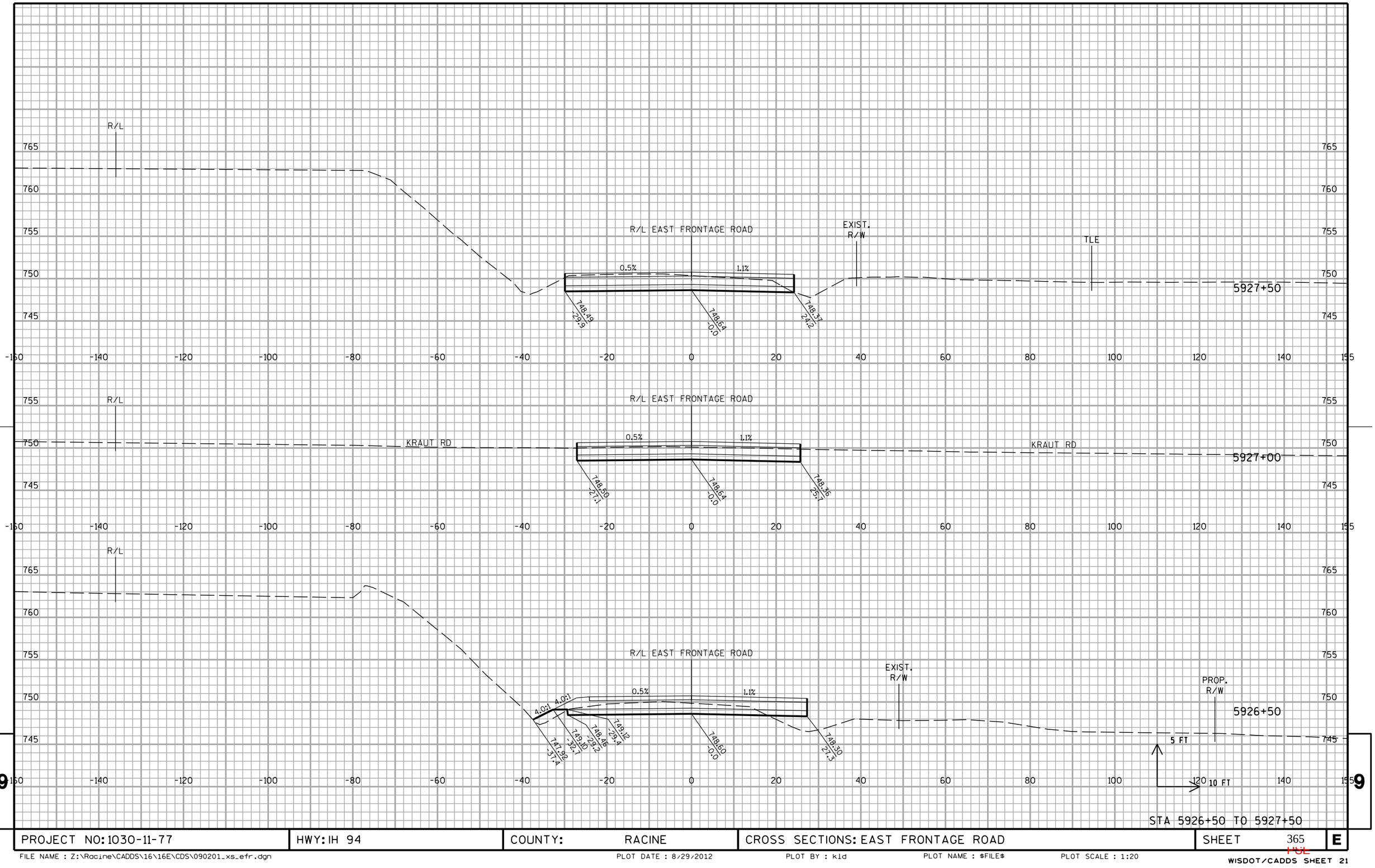


STA 5925+50 TO 5926+00

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 364	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

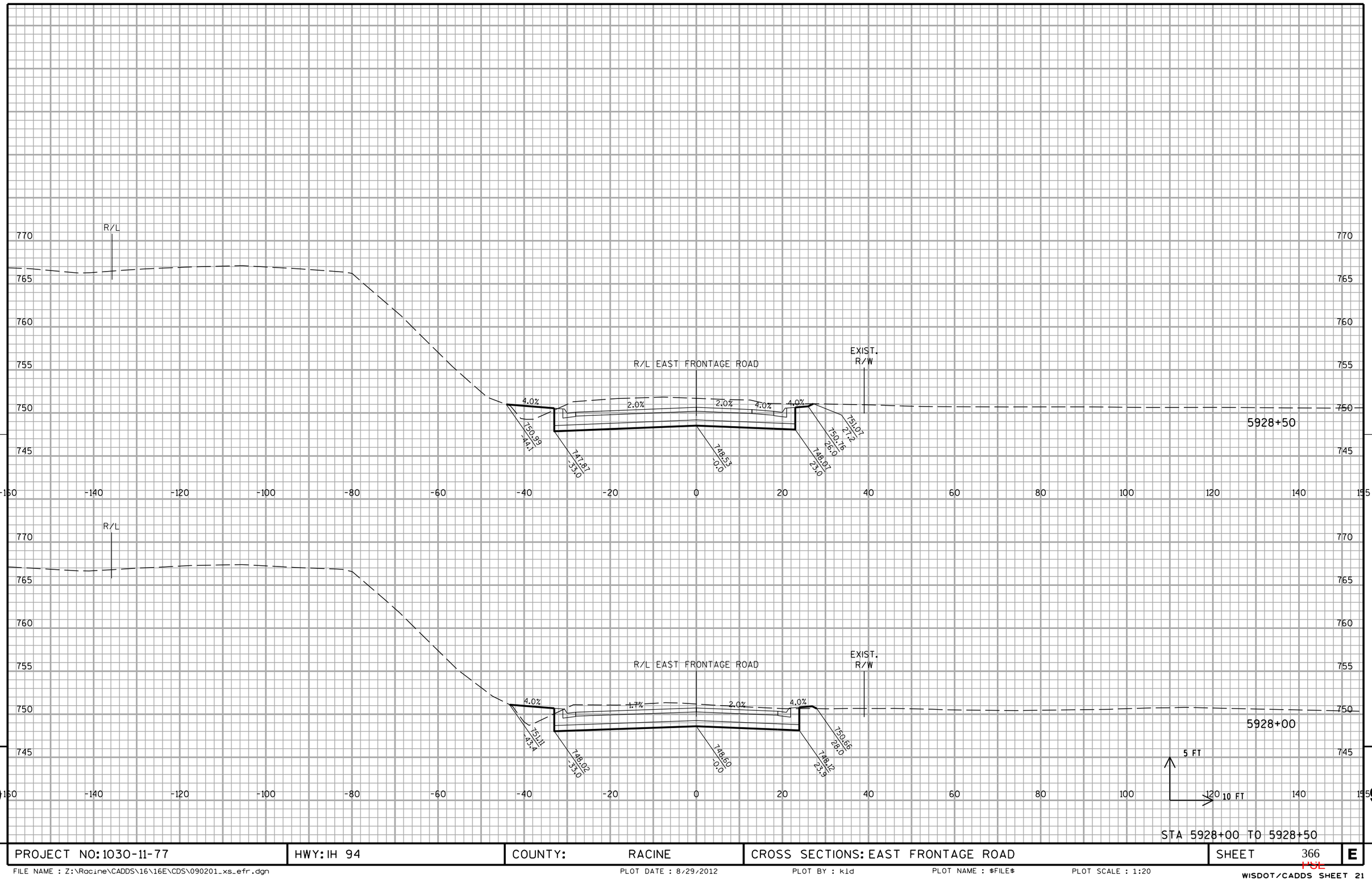


STA 5926+50 TO 5927+50

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 365	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

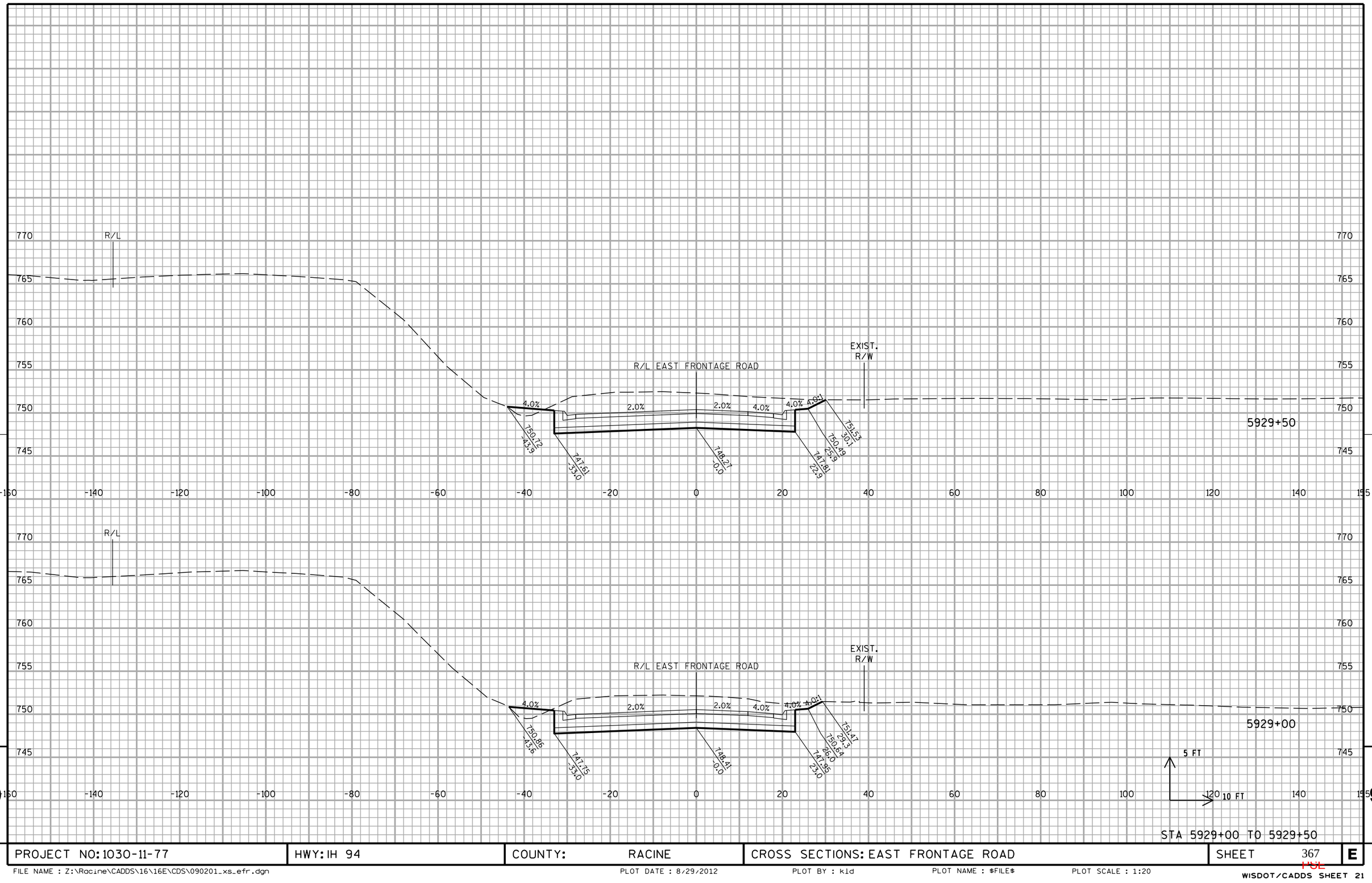


STA 5928+00 TO 5928+50

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 366	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:20

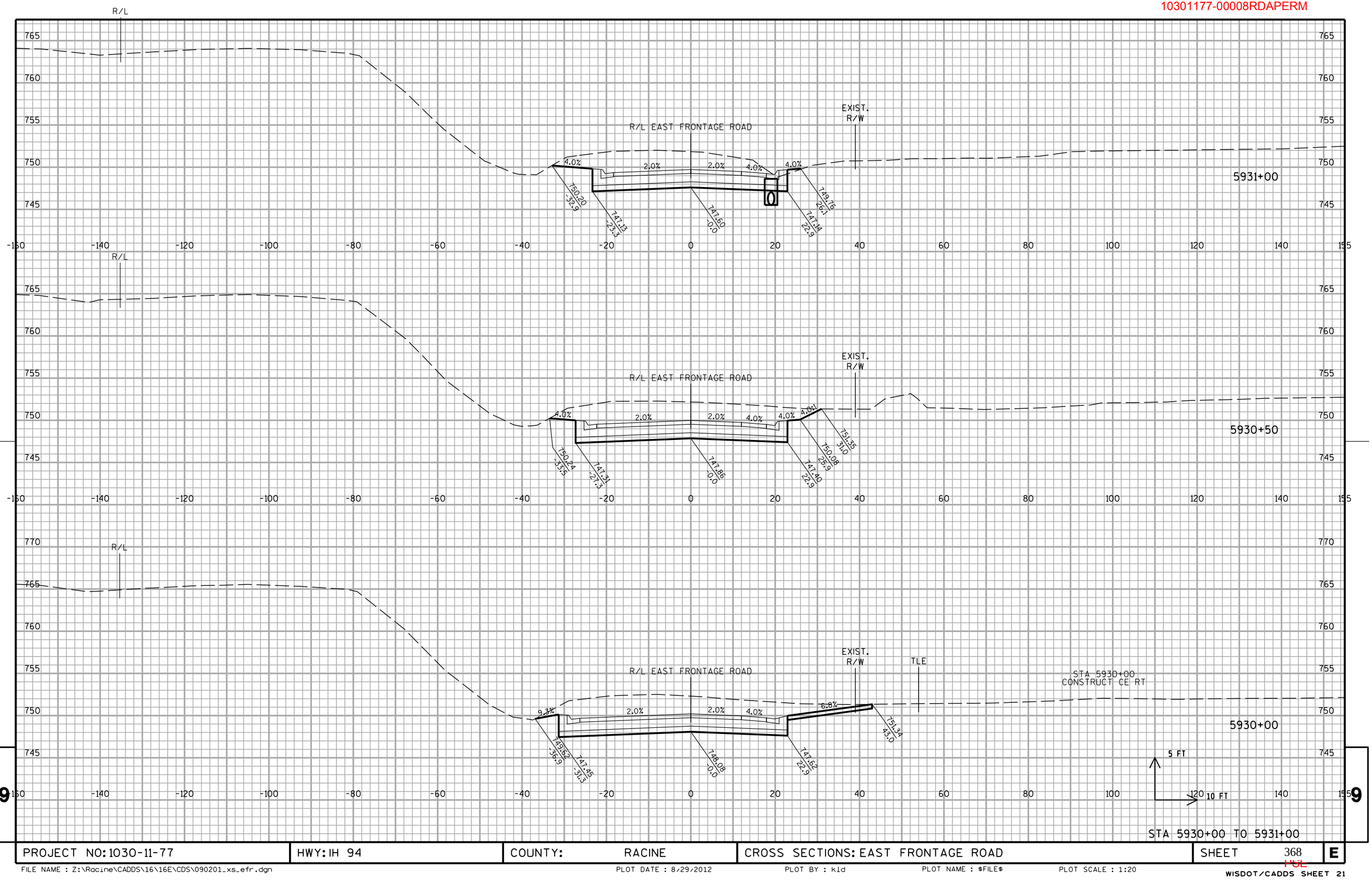
WISDOT/CADDS SHEET 21



PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 367	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:20

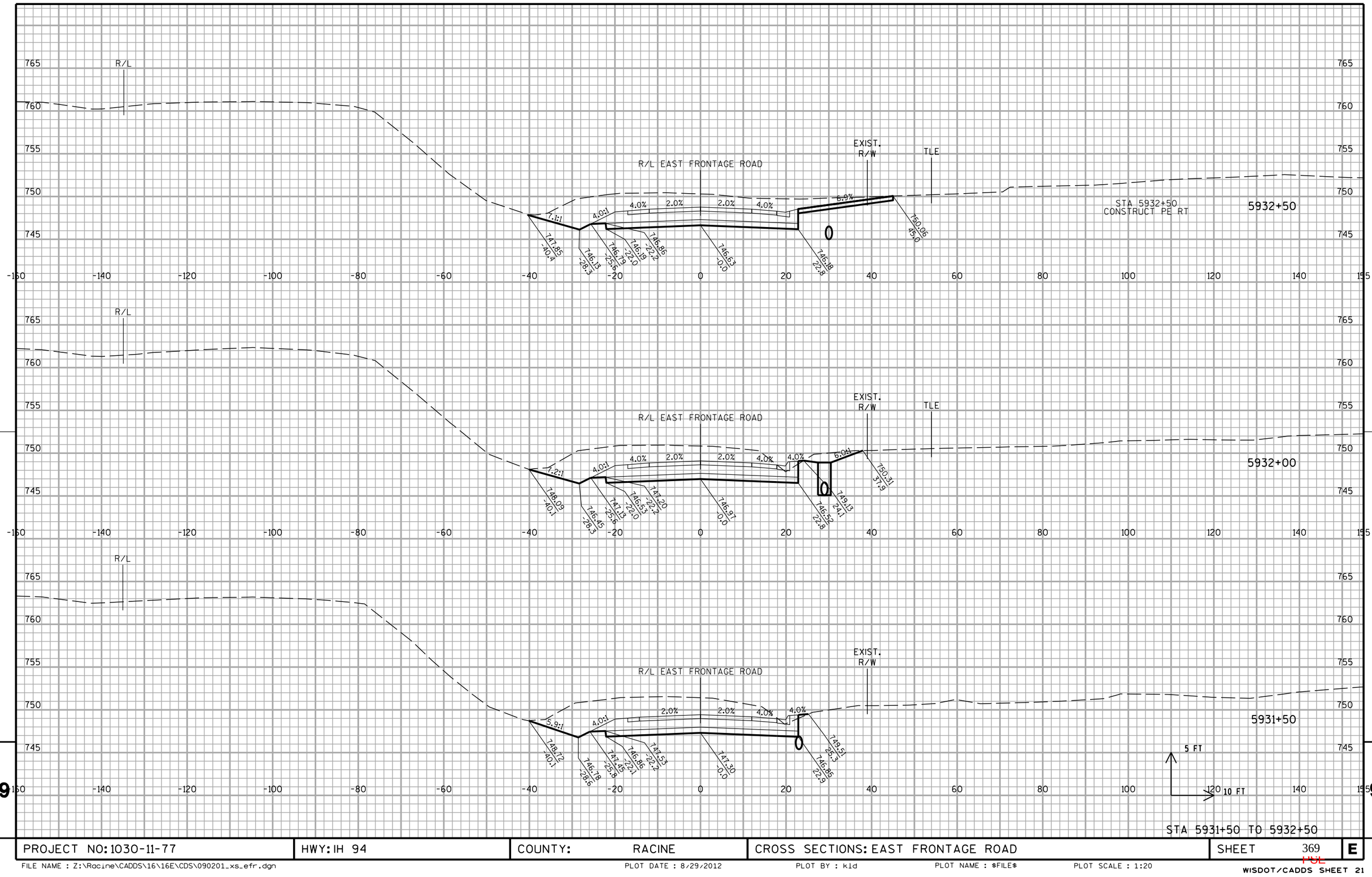
WISDOT/CADDS SHEET 21



STA 5930+00 TO 5931+00

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 368	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : $FILE$ | PLOT SCALE : 1:20

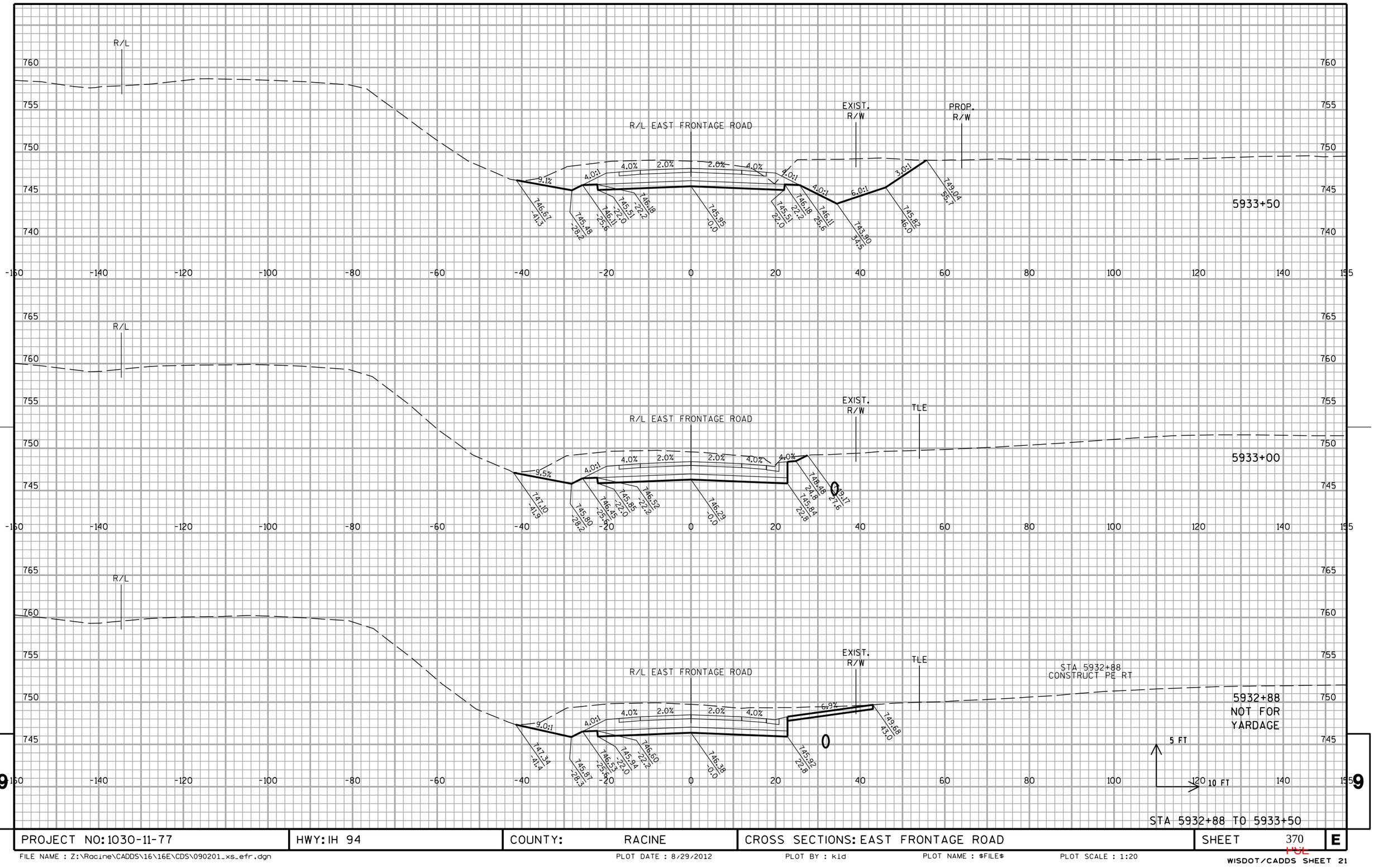


PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 369 E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : $FILE$ | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

10301177-00008RDAPERM

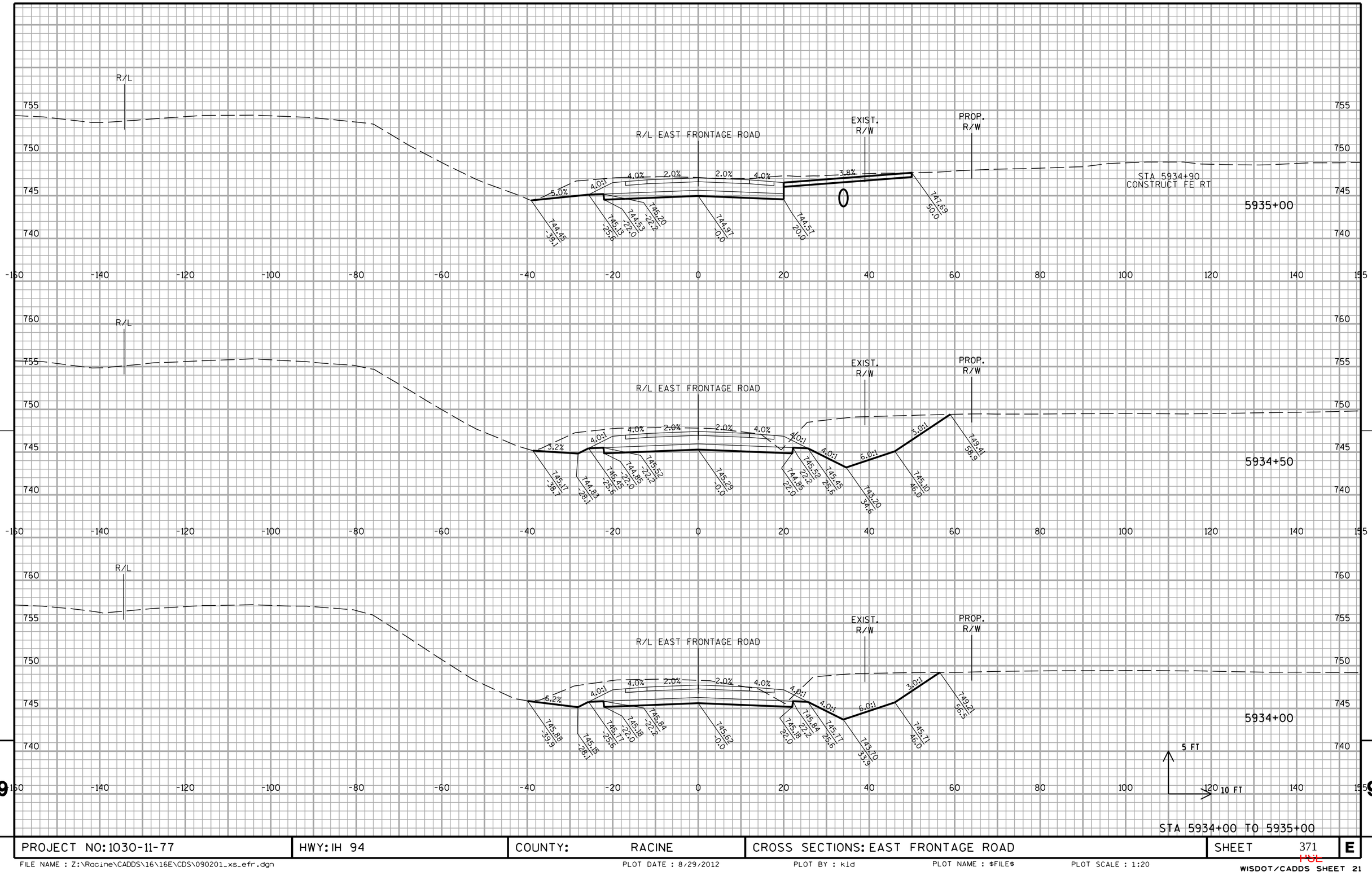


PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 370	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : $FILE$ | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

10301177-00008RDAPERM



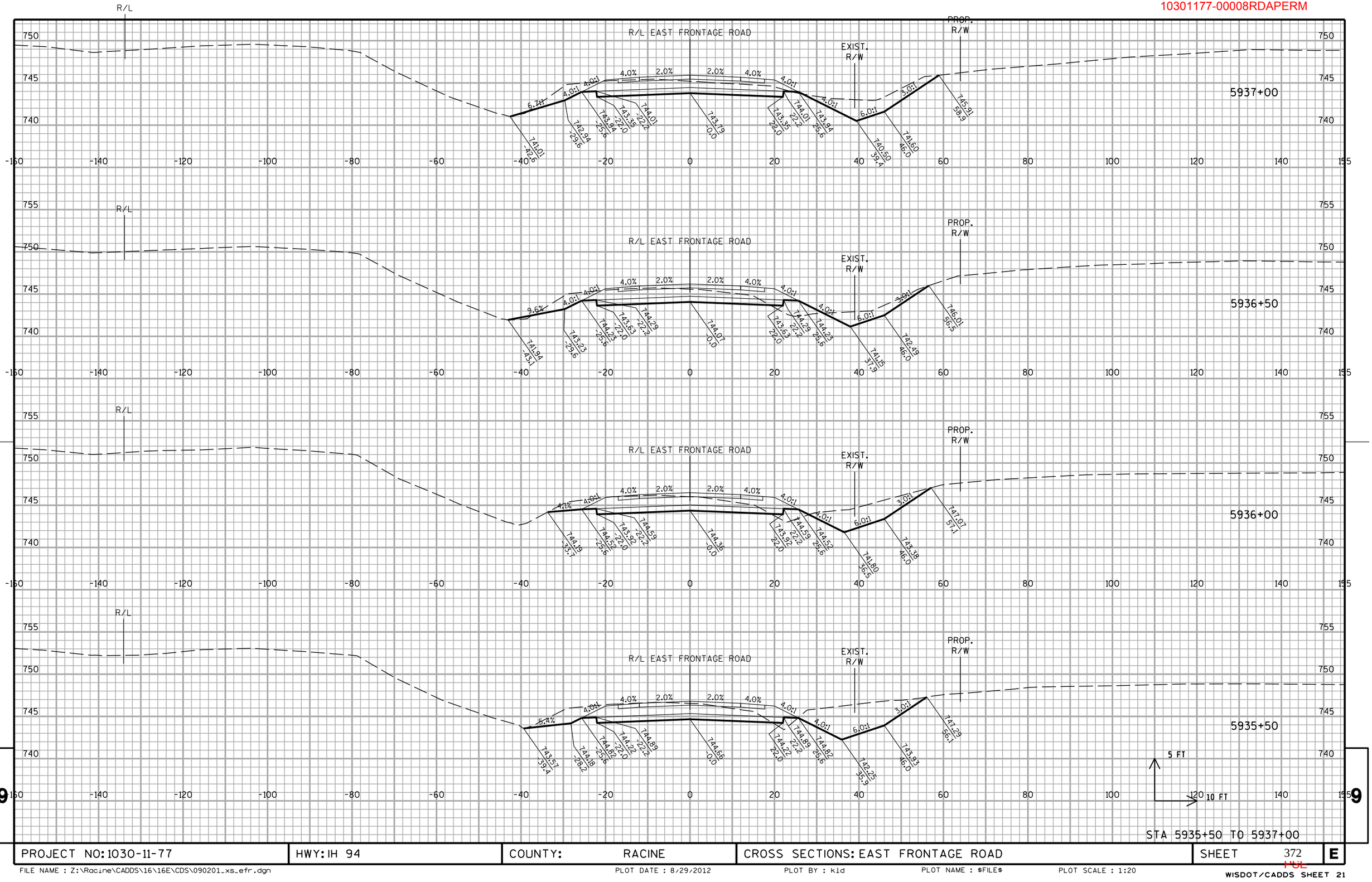
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STA 5934+00 TO 5935+00

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 371	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:20

10301177-00008RDAPERM



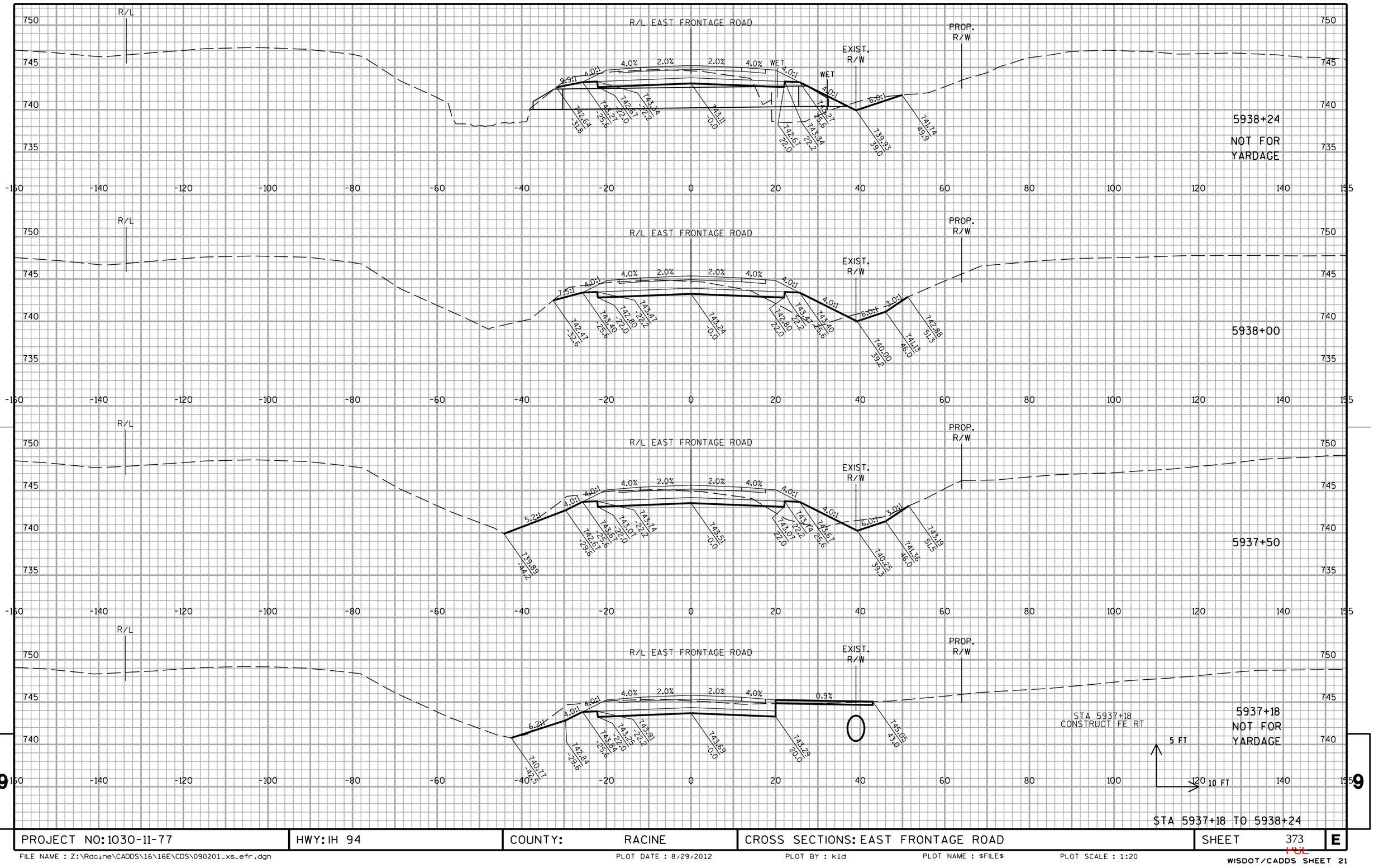
STA 5935+50 TO 5937+00

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 372	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

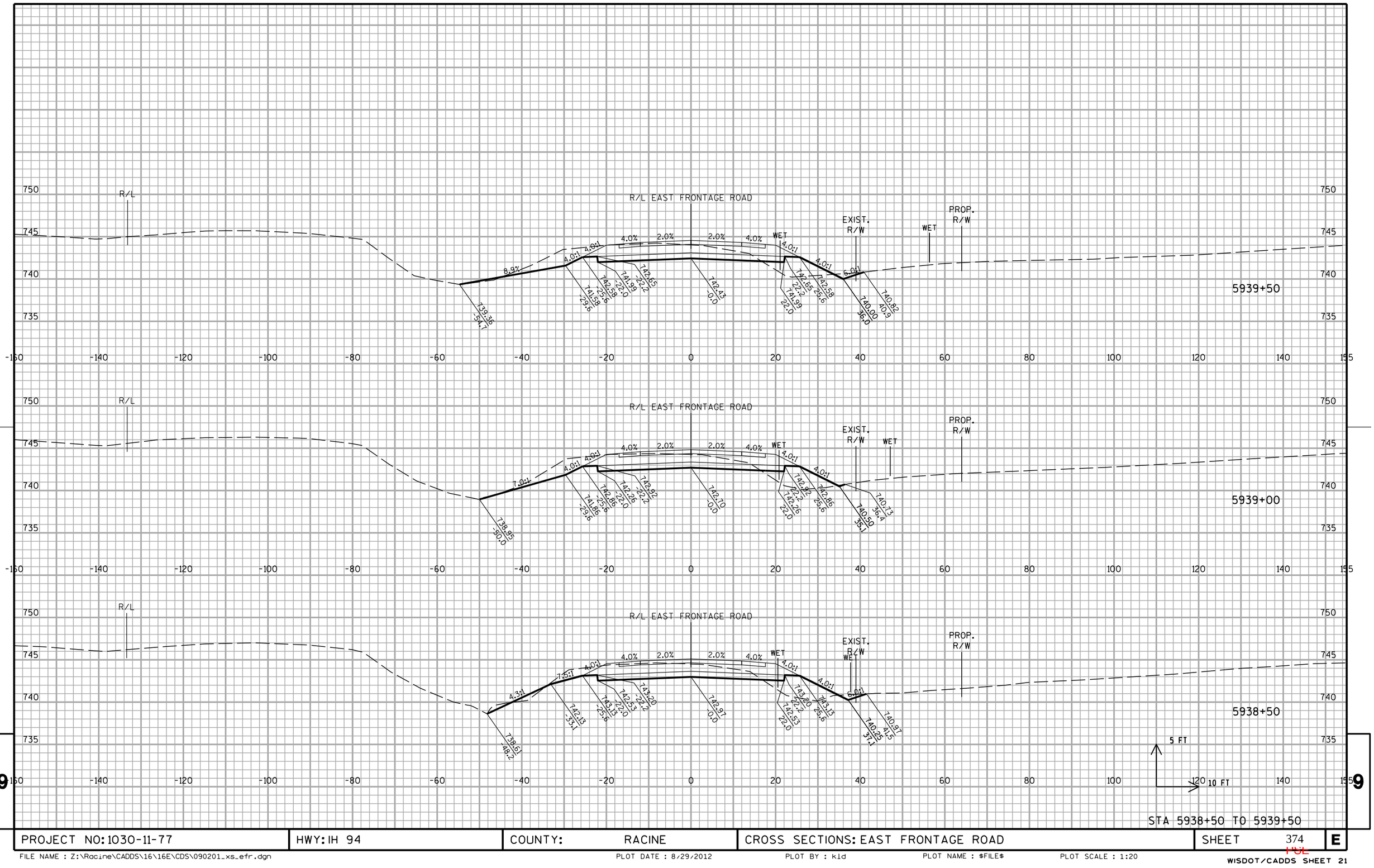
10301177-00008RDAPERM



PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 373	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

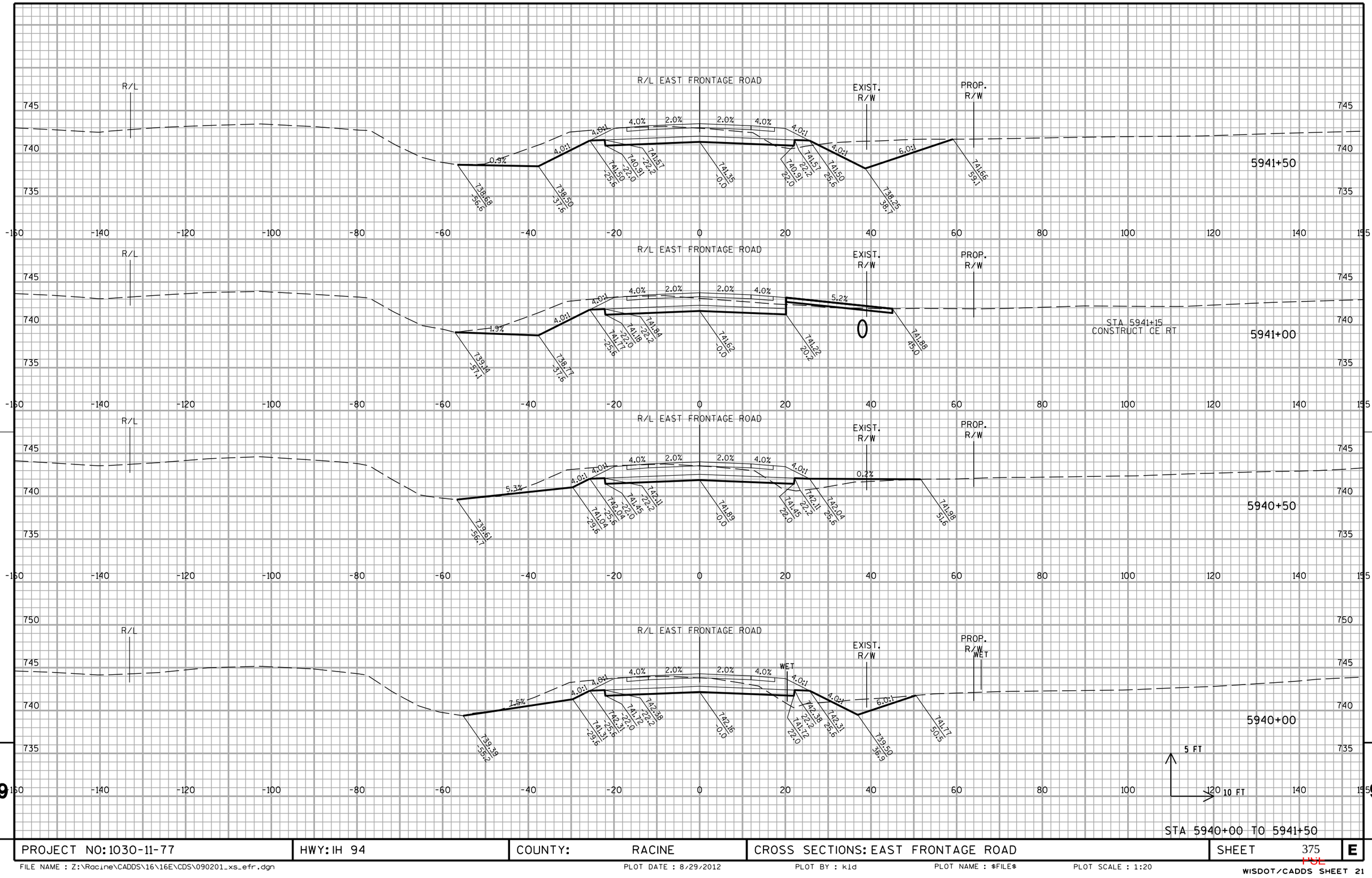


STA 5938+50 TO 5939+50

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 374	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : $FILE$ | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

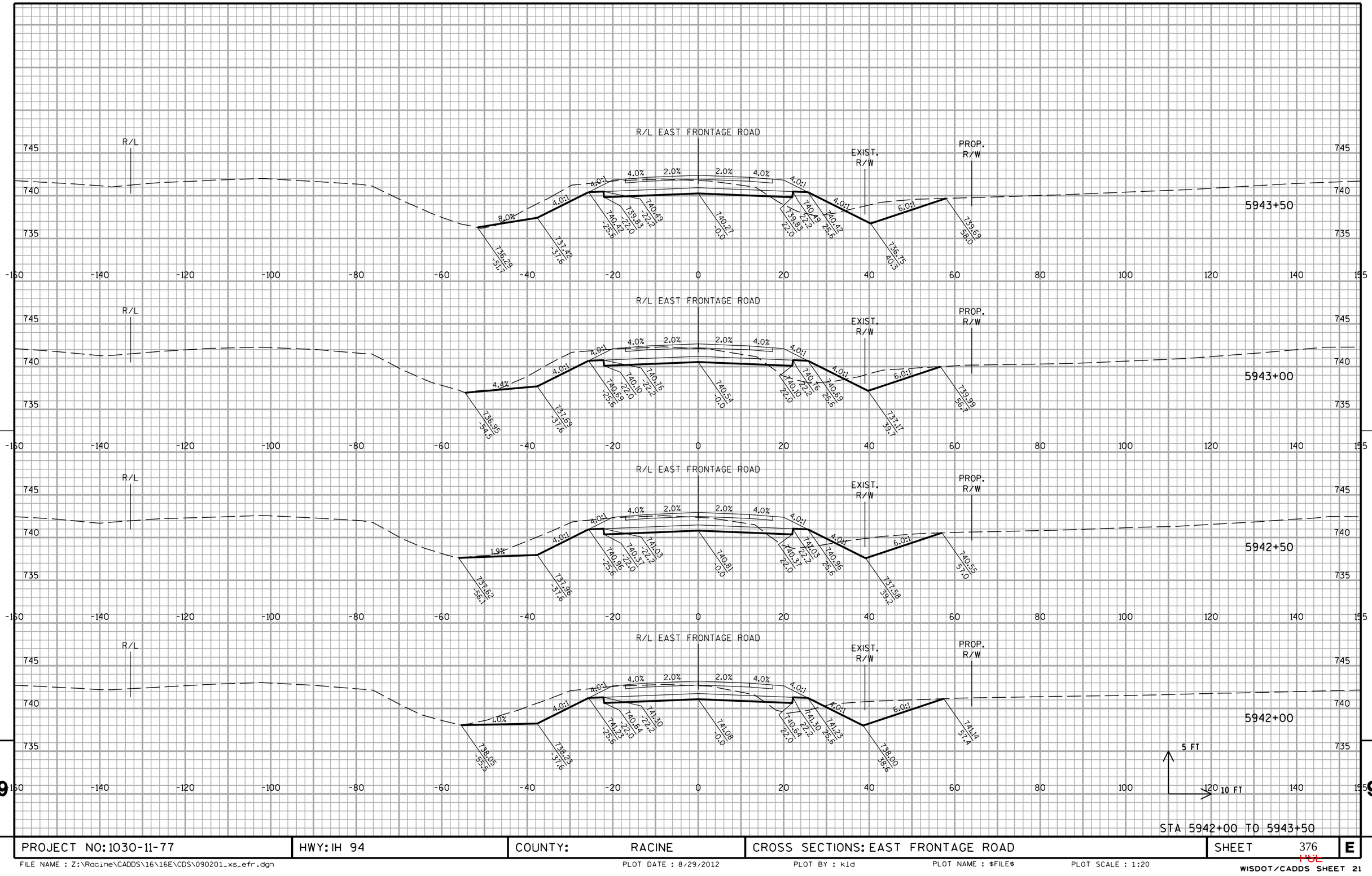


PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 375	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

10301177-00008RDAPERM

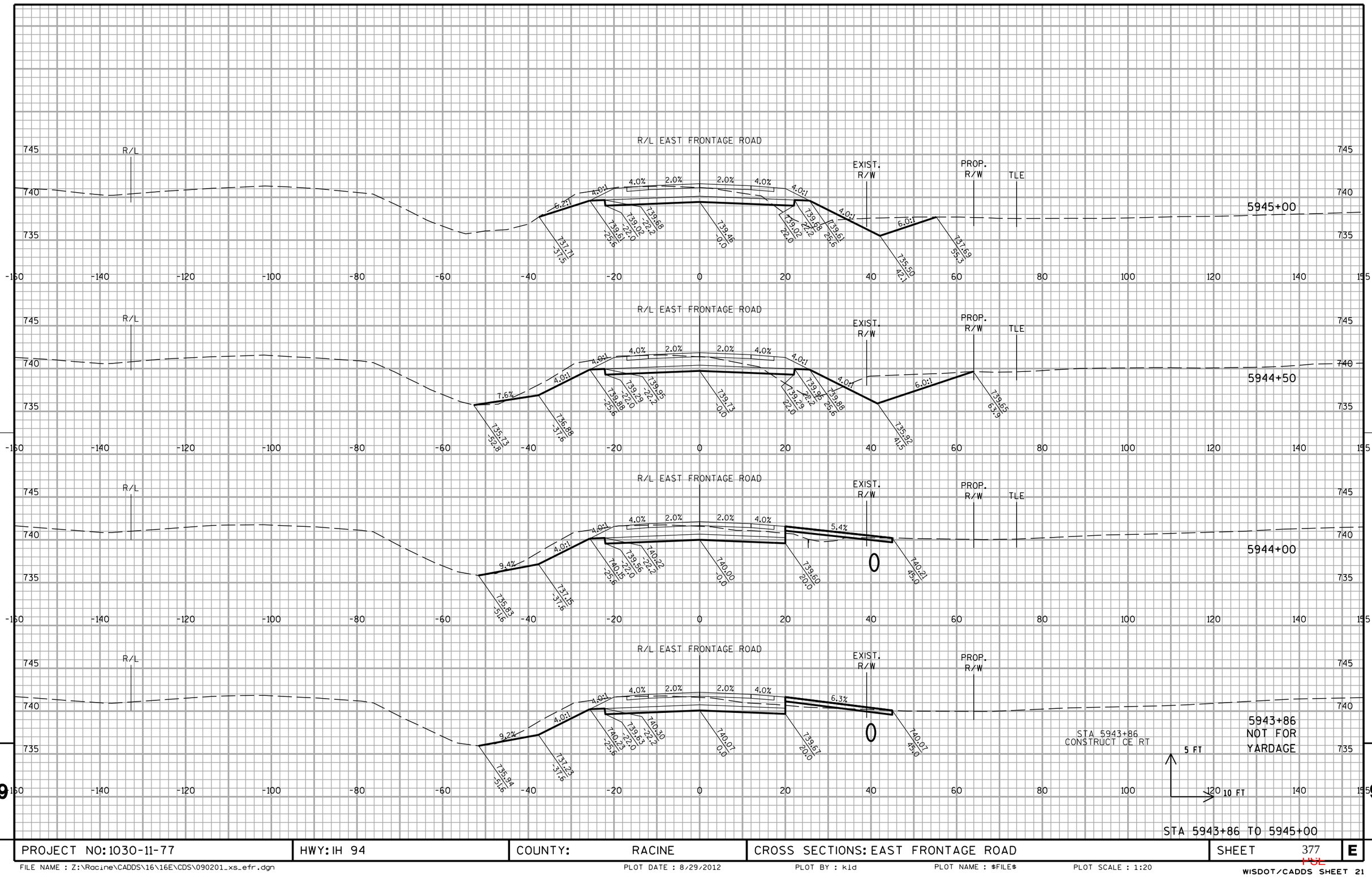


STA 5942+00 TO 5943+50

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 376	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:20

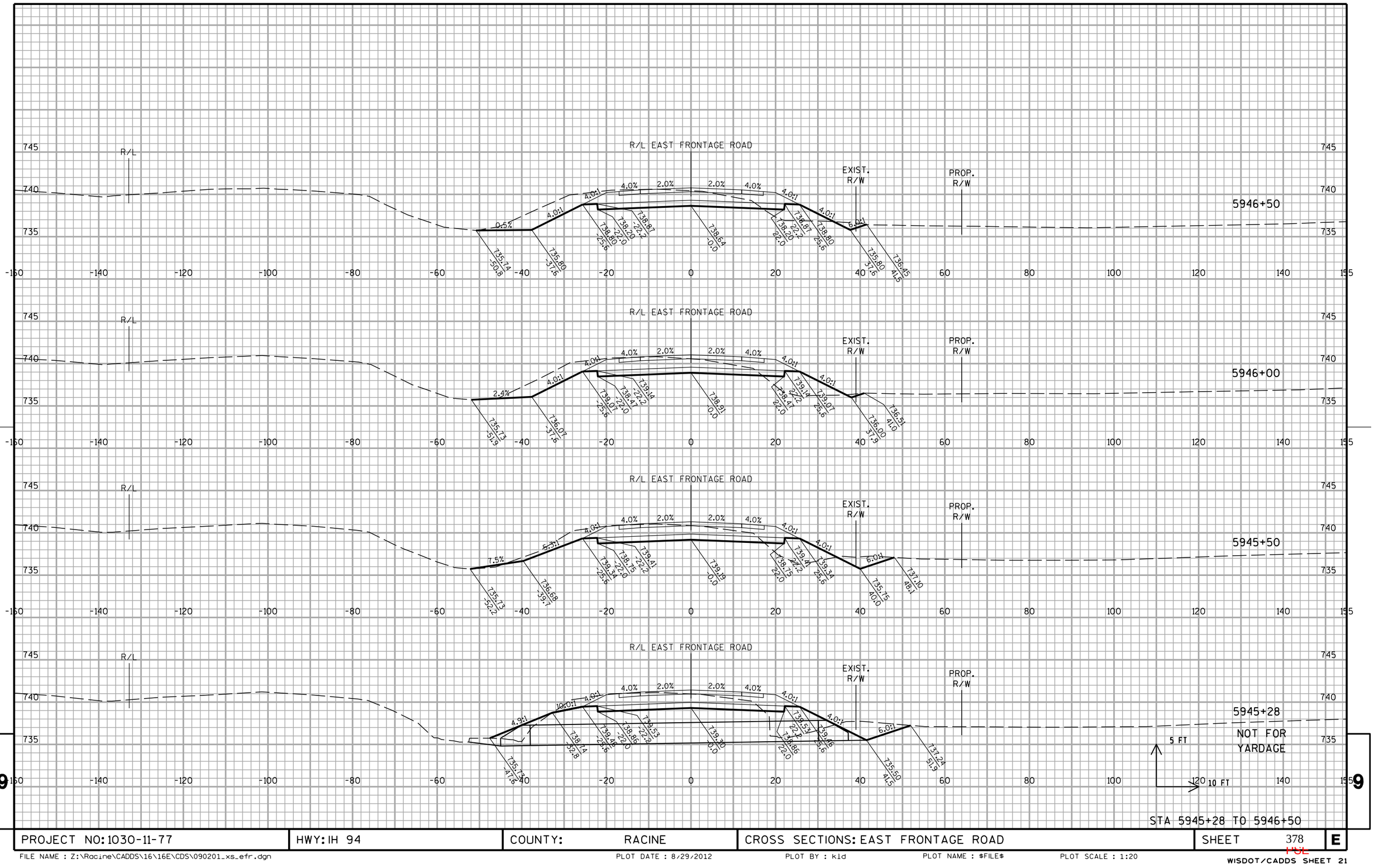
WISDOT/CADDS SHEET 21



PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 377	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : $FILE$ | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

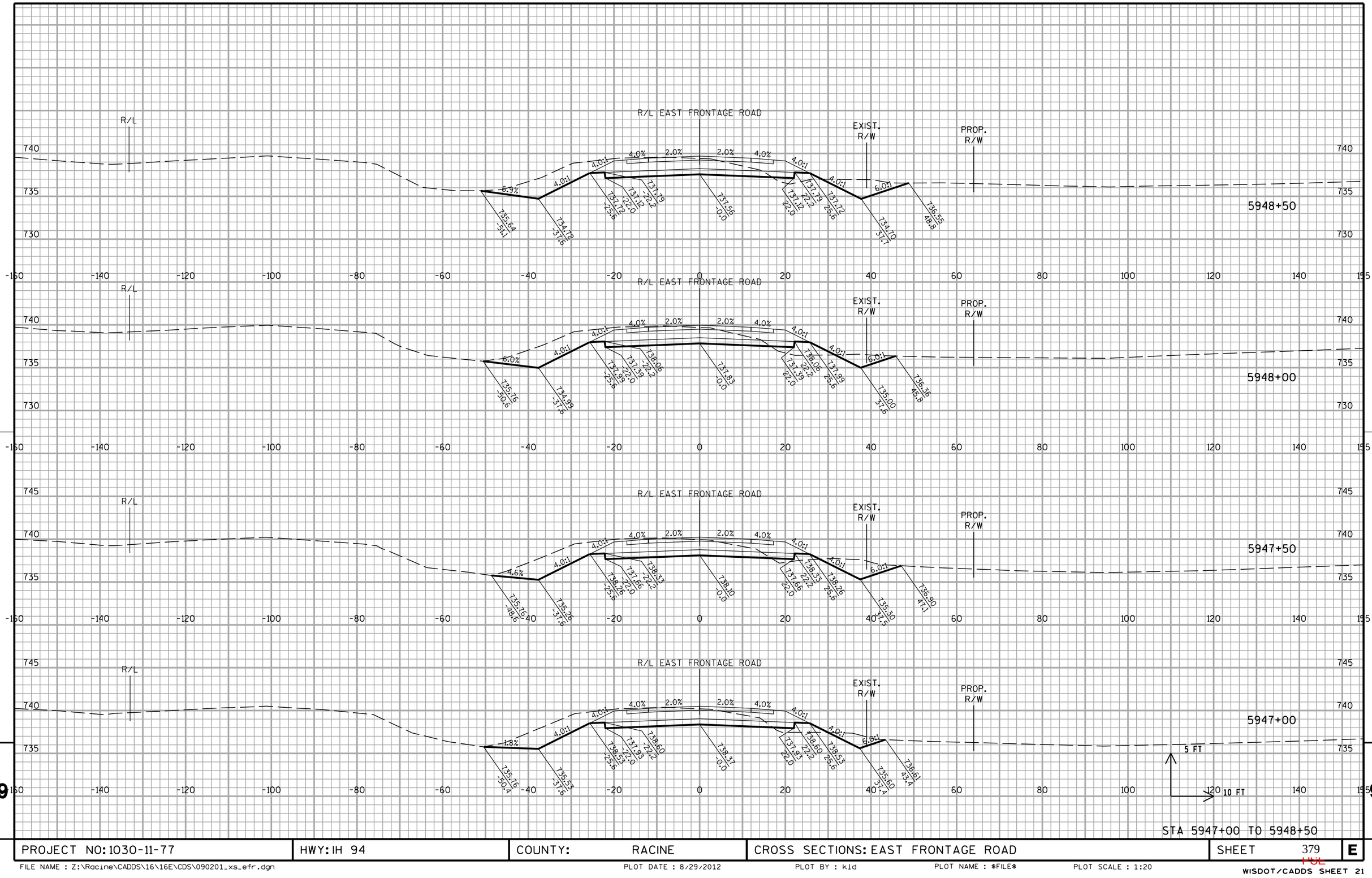


PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 378	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

10301177-00008RDAPERM

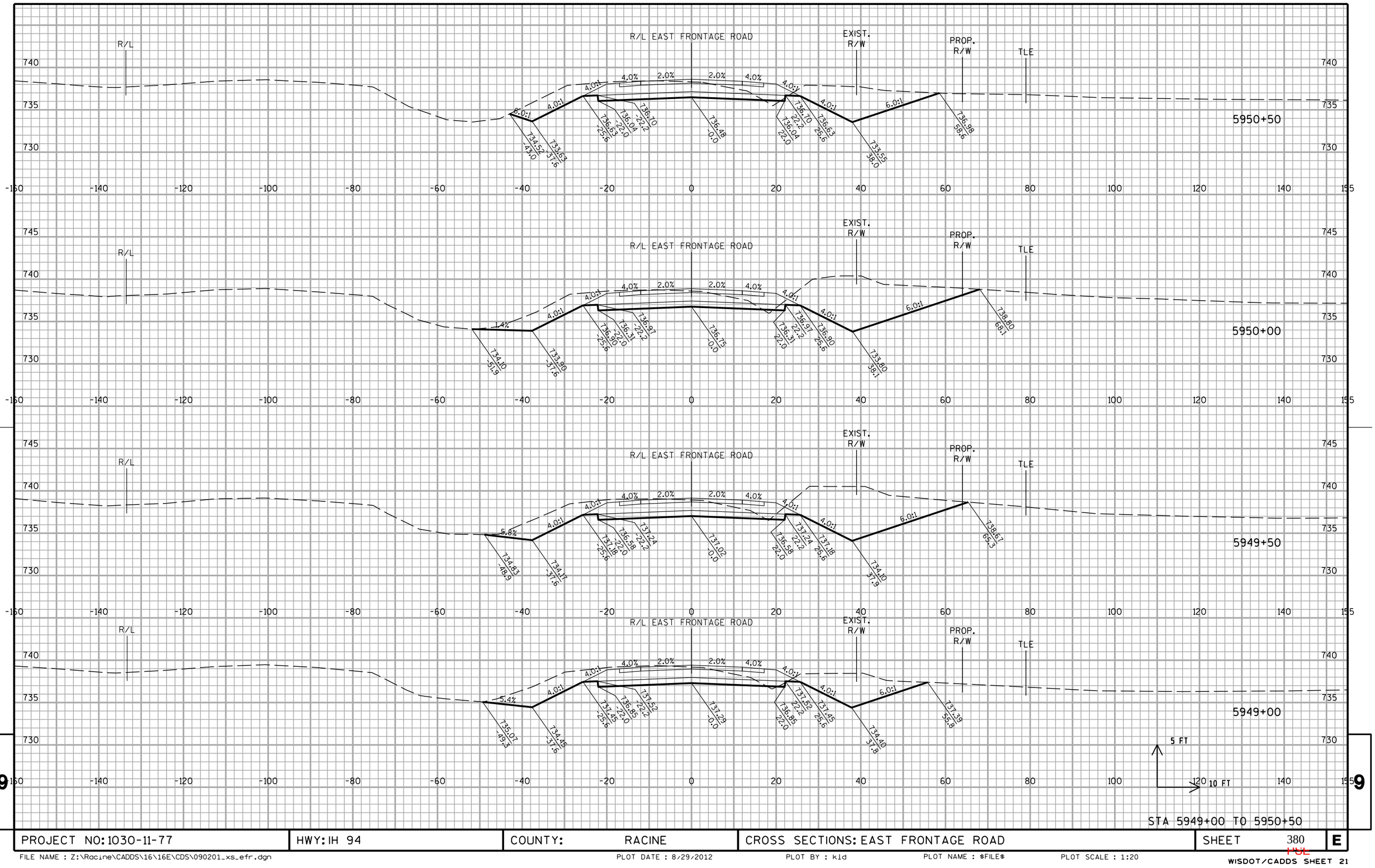


STA 5947+00 TO 5948+50

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 379	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : $FILE$ | PLOT SCALE : 1:20

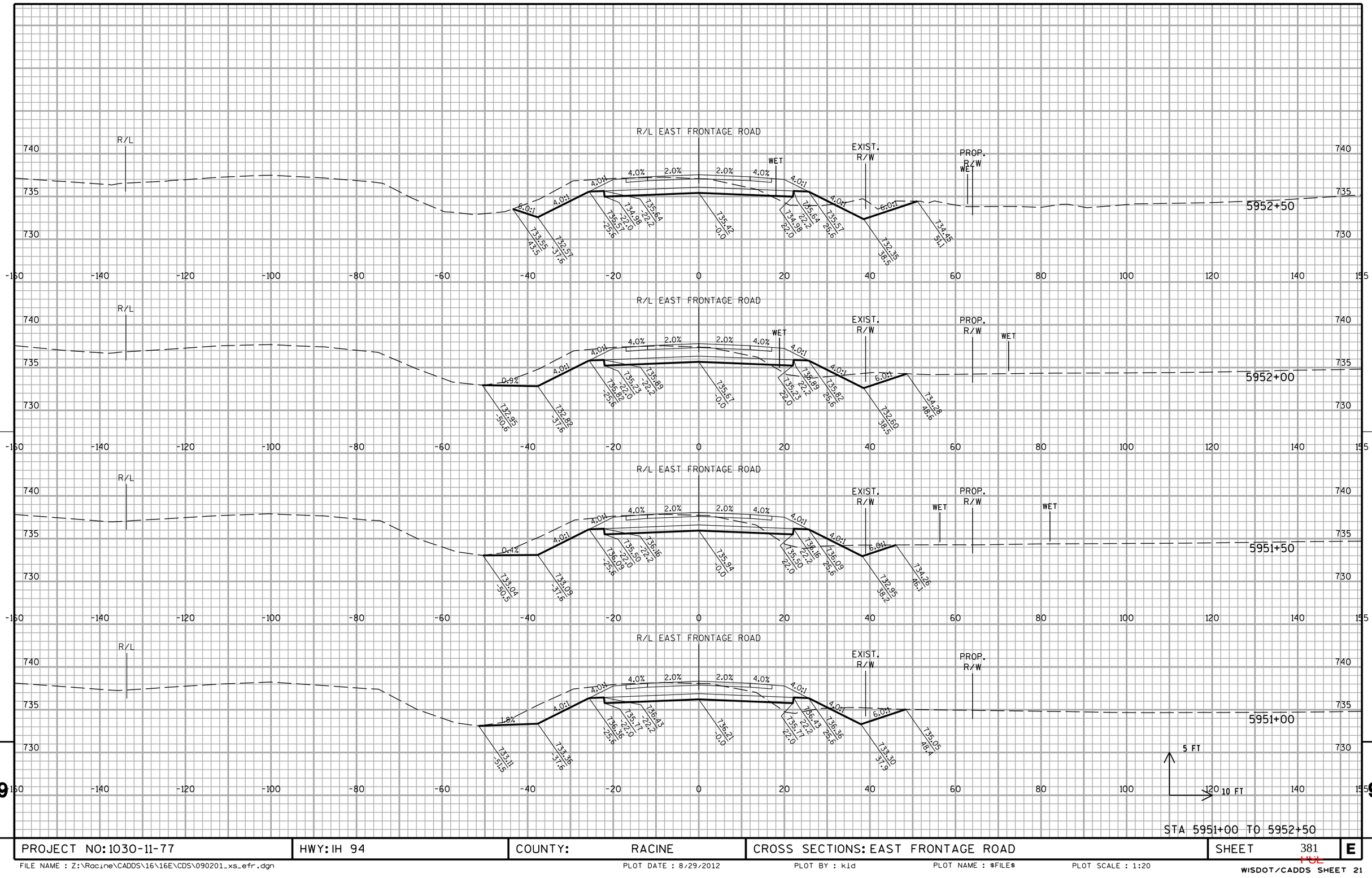
WISDOT/CADDS SHEET 21


R/L
R/L EAST FRONTAGE ROAD
EXIST. R/W
PROP. R/W
TLE
5950+50
4.0%
2.0%
4.0:1
6.0:1
734.52 -43.0
733.63 -37.6
736.63 -25.6
736.04 -22.0
736.70 -22.2
736.48 -0.0
736.70 22.2
736.04 22.0
736.63 25.6
733.55 38.0
736.98 58.6
R/L
R/L EAST FRONTAGE ROAD
EXIST. R/W
PROP. R/W
TLE
5950+00
1.4%
4.0%
2.0%
4.0:1
6.0:1
734.10 -51.9
733.90 -37.6
736.90 -25.6
736.31 -22.0
736.97 -22.2
736.75 -0.0
736.97 22.2
736.21 22.0
736.90 25.6
733.80 38.1
738.80 68.1
R/L
R/L EAST FRONTAGE ROAD
EXIST. R/W
PROP. R/W
TLE
5949+50
5.8%
4.0%
2.0%
4.0:1
6.0:1
734.83 -48.9
734.17 -37.6
736.58 -25.6
736.58 -22.0
737.24 -22.2
737.02 -0.0
737.24 22.2
736.58 22.0
737.18 25.6
734.40 37.9
738.67 65.3
R/L
R/L EAST FRONTAGE ROAD
EXIST. R/W
PROP. R/W
TLE
5949+00
5.4%
4.0%
2.0%
4.0:1
6.0:1
735.01 -49.3
734.45 -37.6
737.45 -25.6
736.85 -22.0
737.52 -22.2
737.29 -0.0
737.52 22.2
736.85 22.0
737.45 25.6
734.40 37.8
737.39 55.8
5 FT
10 FT
STA 5949+00 TO 5950+50

9 9

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 380	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:20



STA 5951+00 TO 5952+50

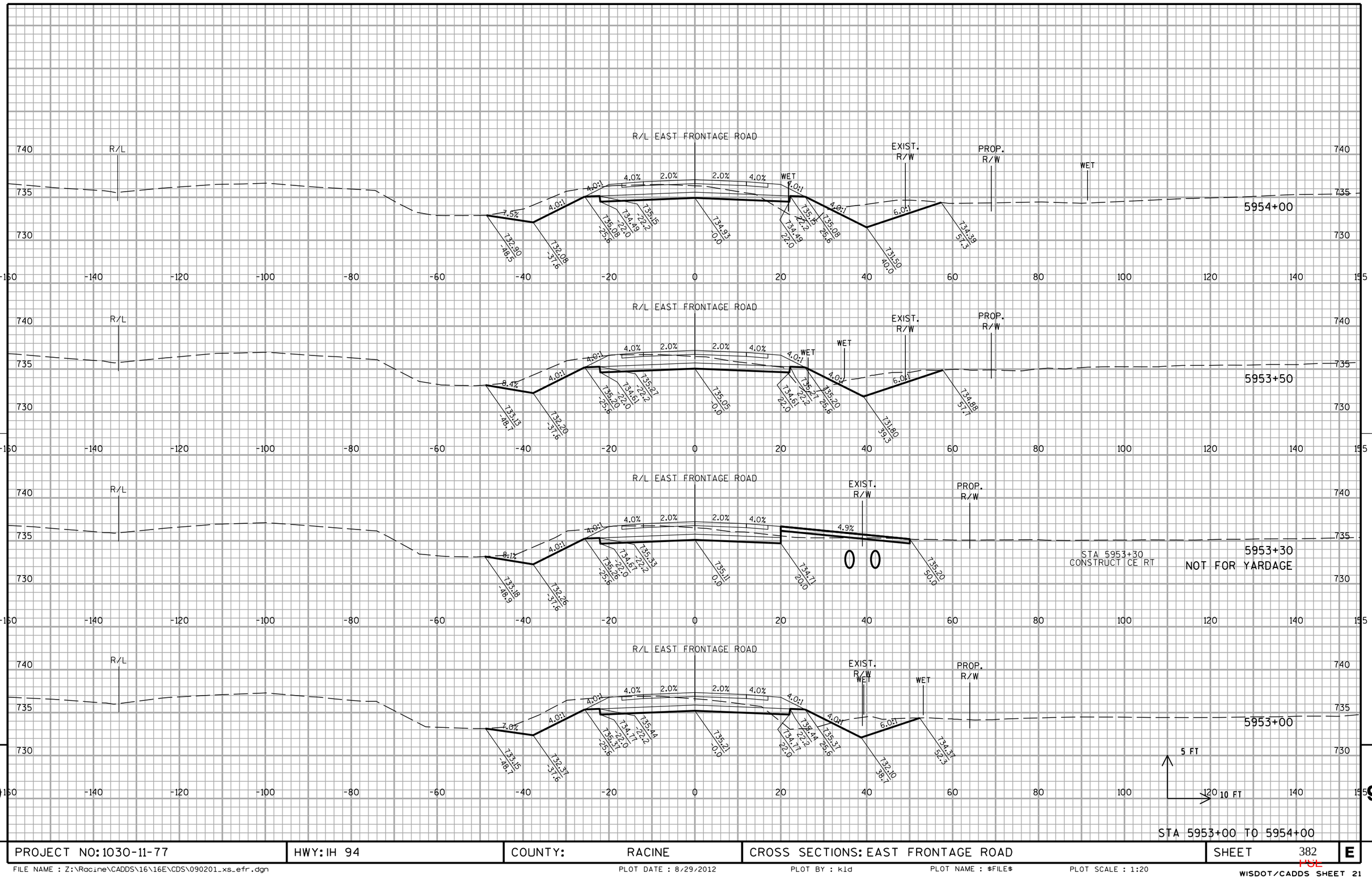
PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 381	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : $FILE$ | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

9 9

10301177-00008RDAPERM

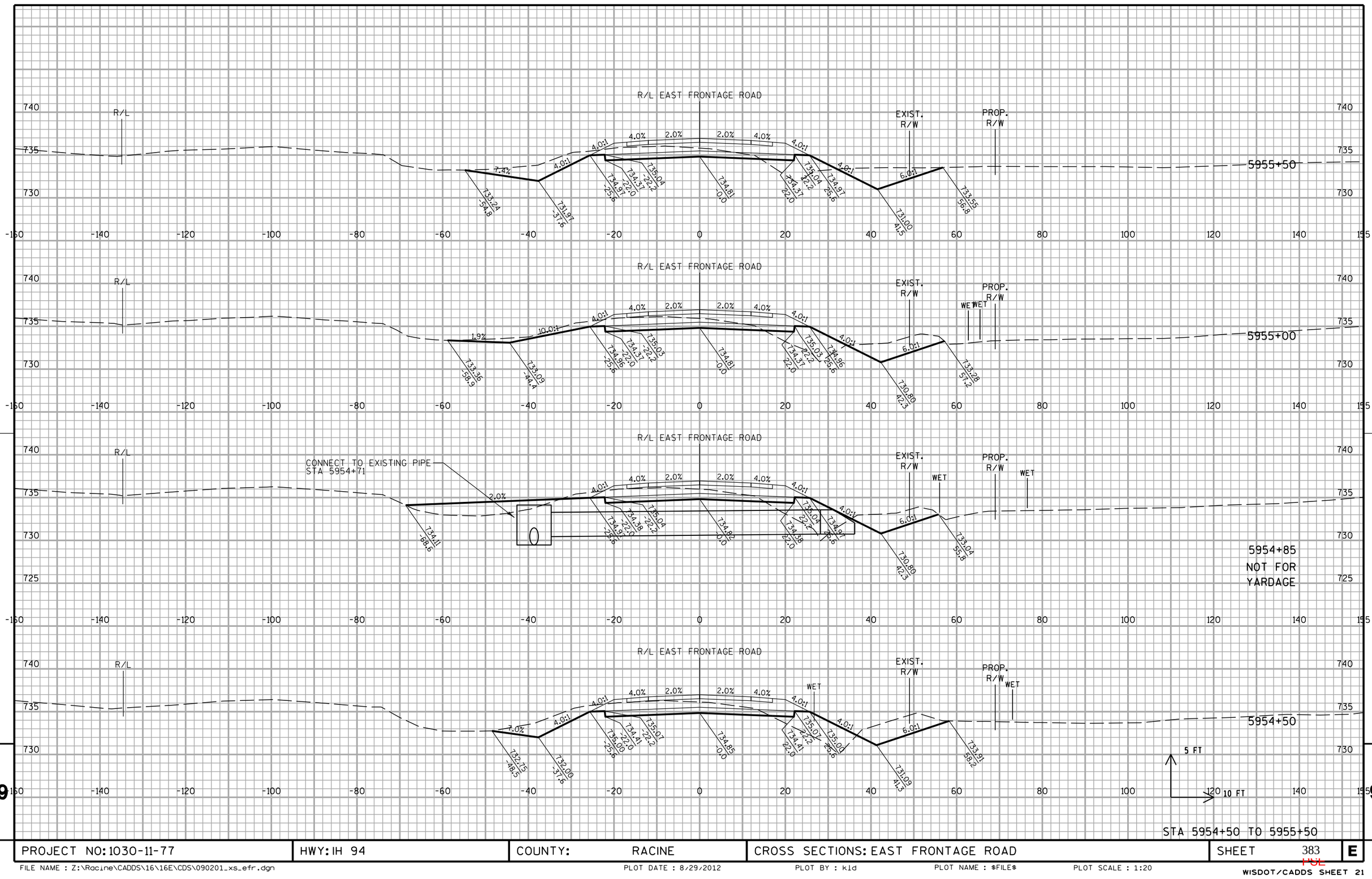


PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 382	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : $FILE$ | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

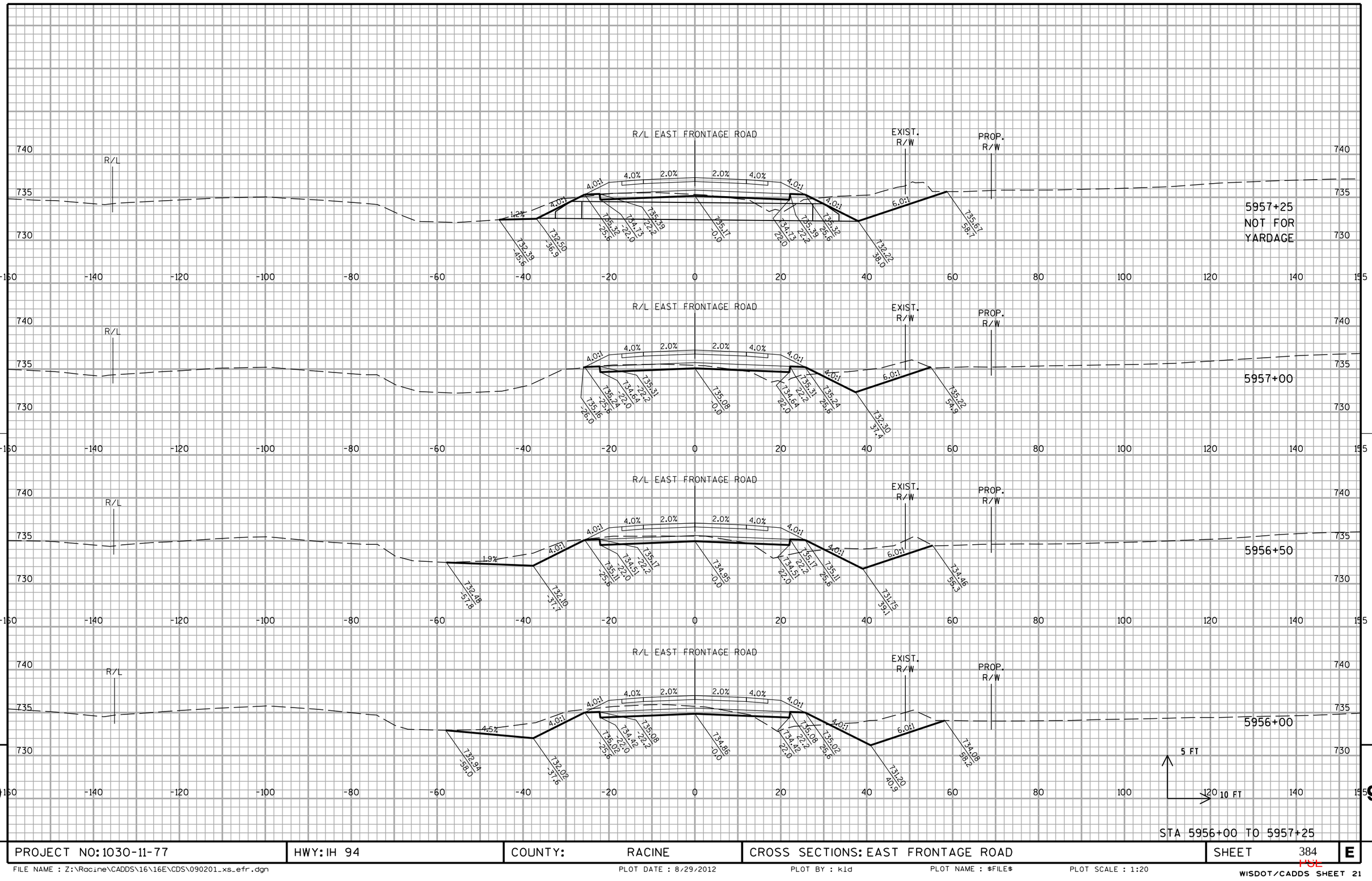
10301177-00008RDAPERM



PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 383	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:20

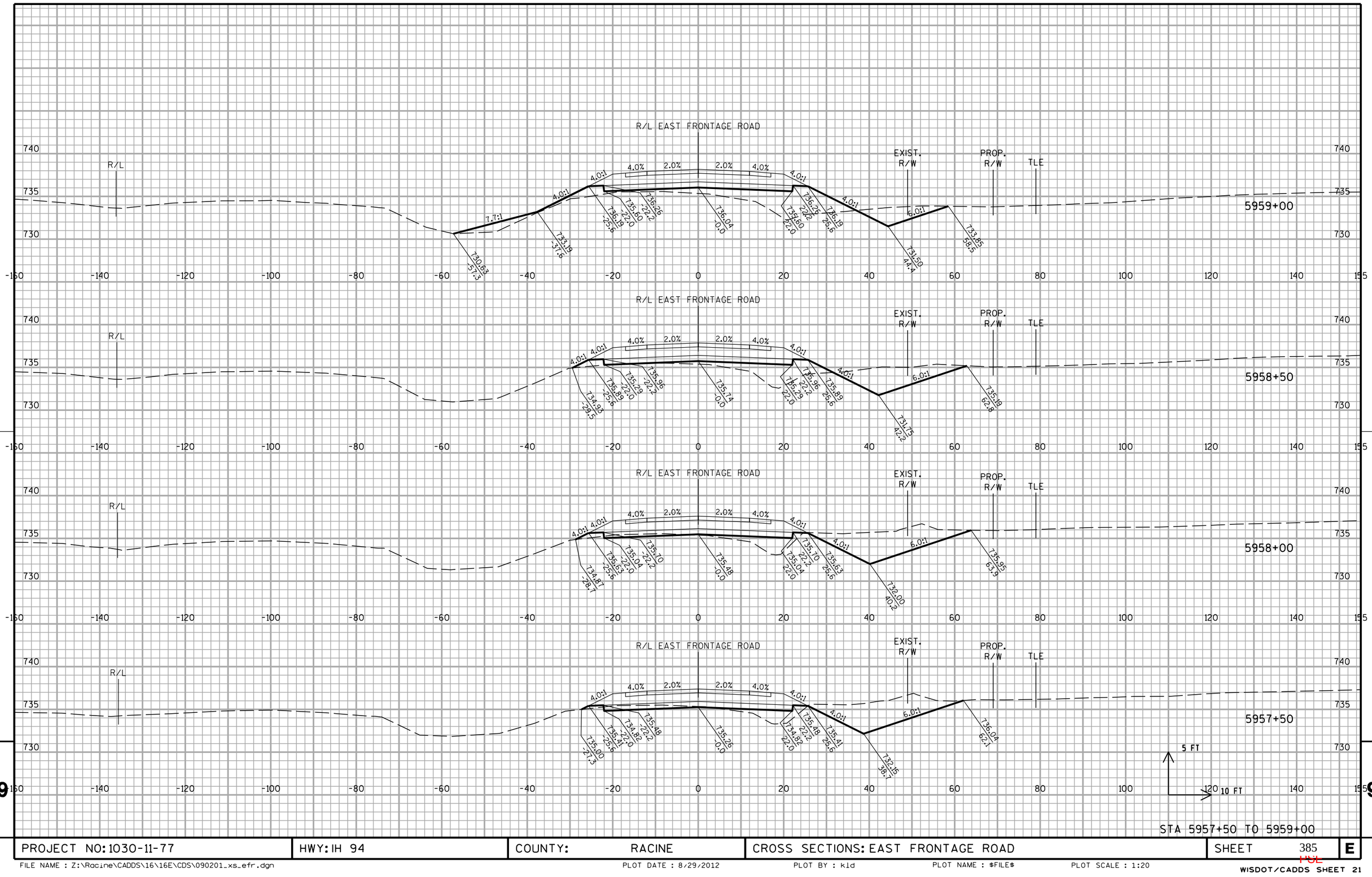
WISDOT/CADDS SHEET 21



STA 5956+00 TO 5957+25

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 384	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:20



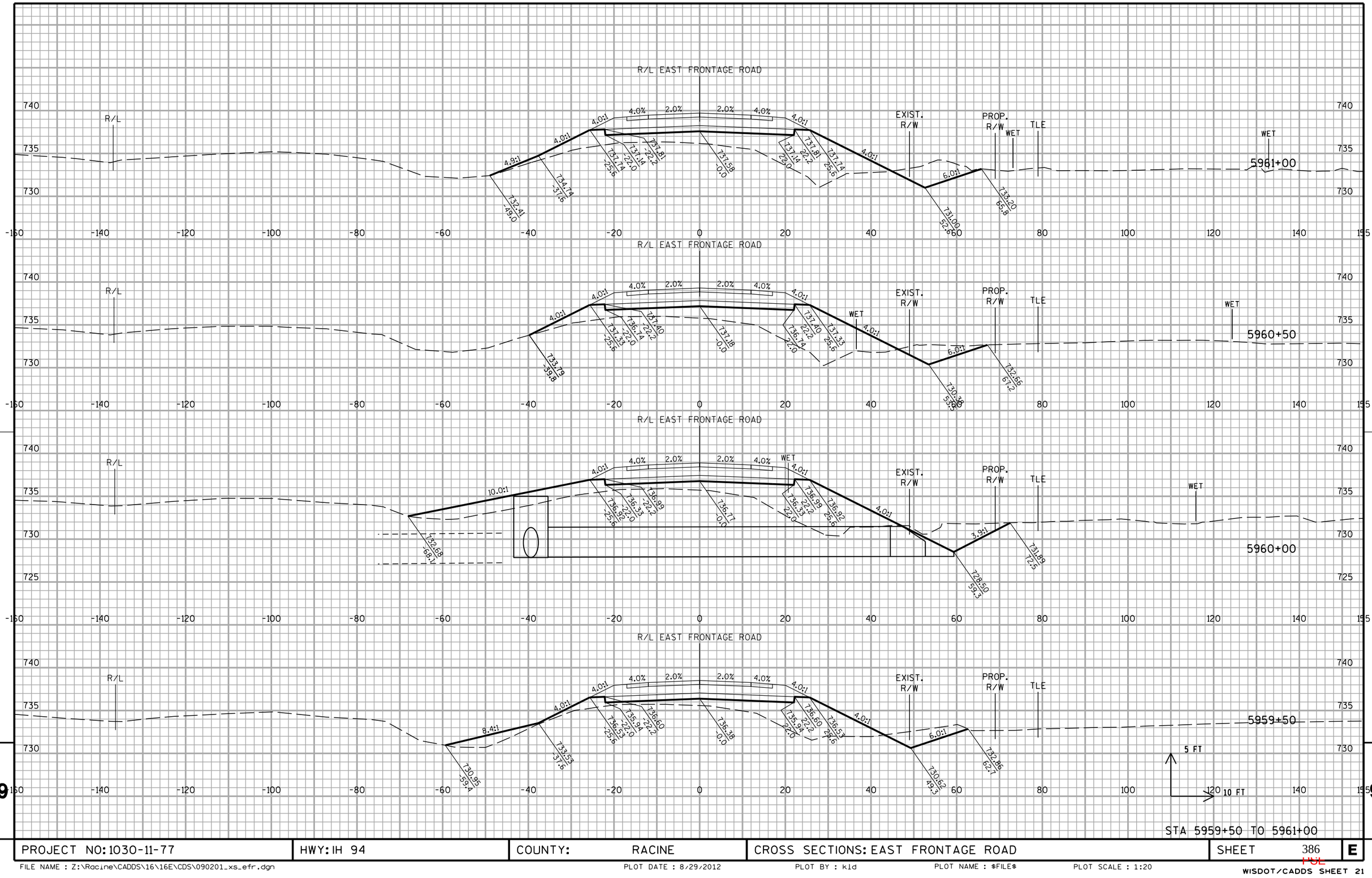
STA 5957+50 TO 5959+00

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 385	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

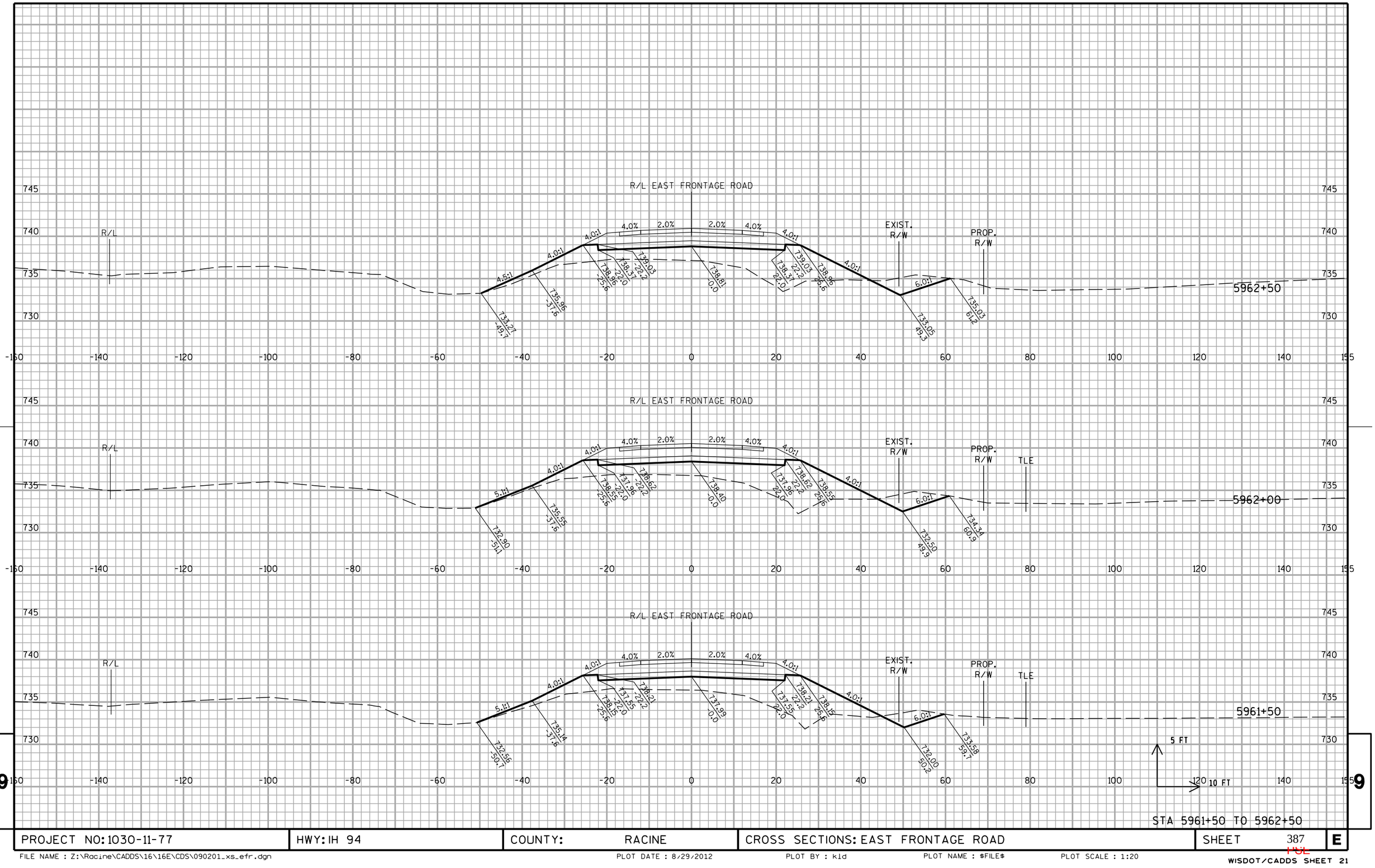
10301177-00008RDAPERM



PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 386	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



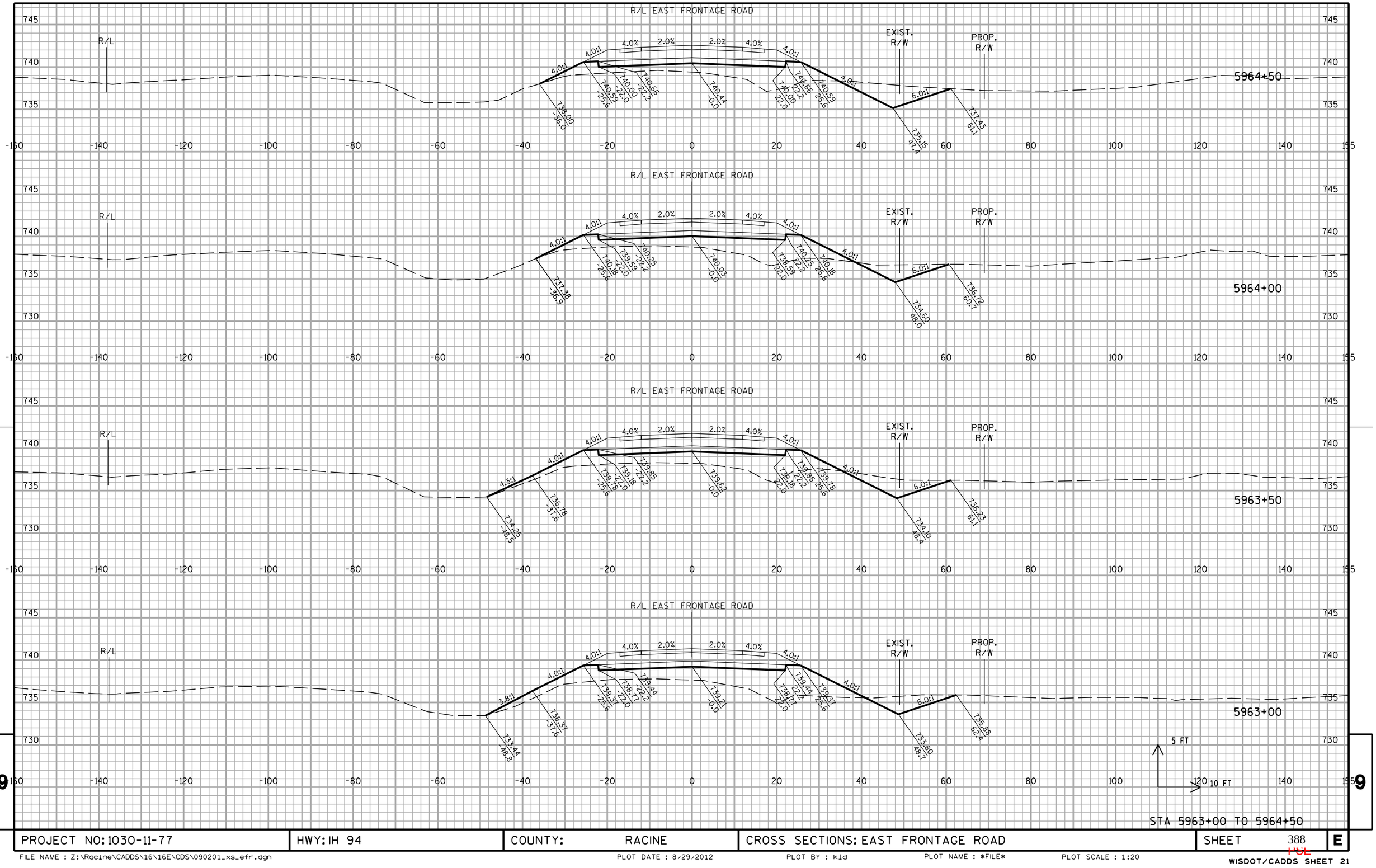
STA 5961+50 TO 5962+50

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 387	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

10301177-00008RDAPERM



STA 5963+00 TO 5964+50

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 388	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

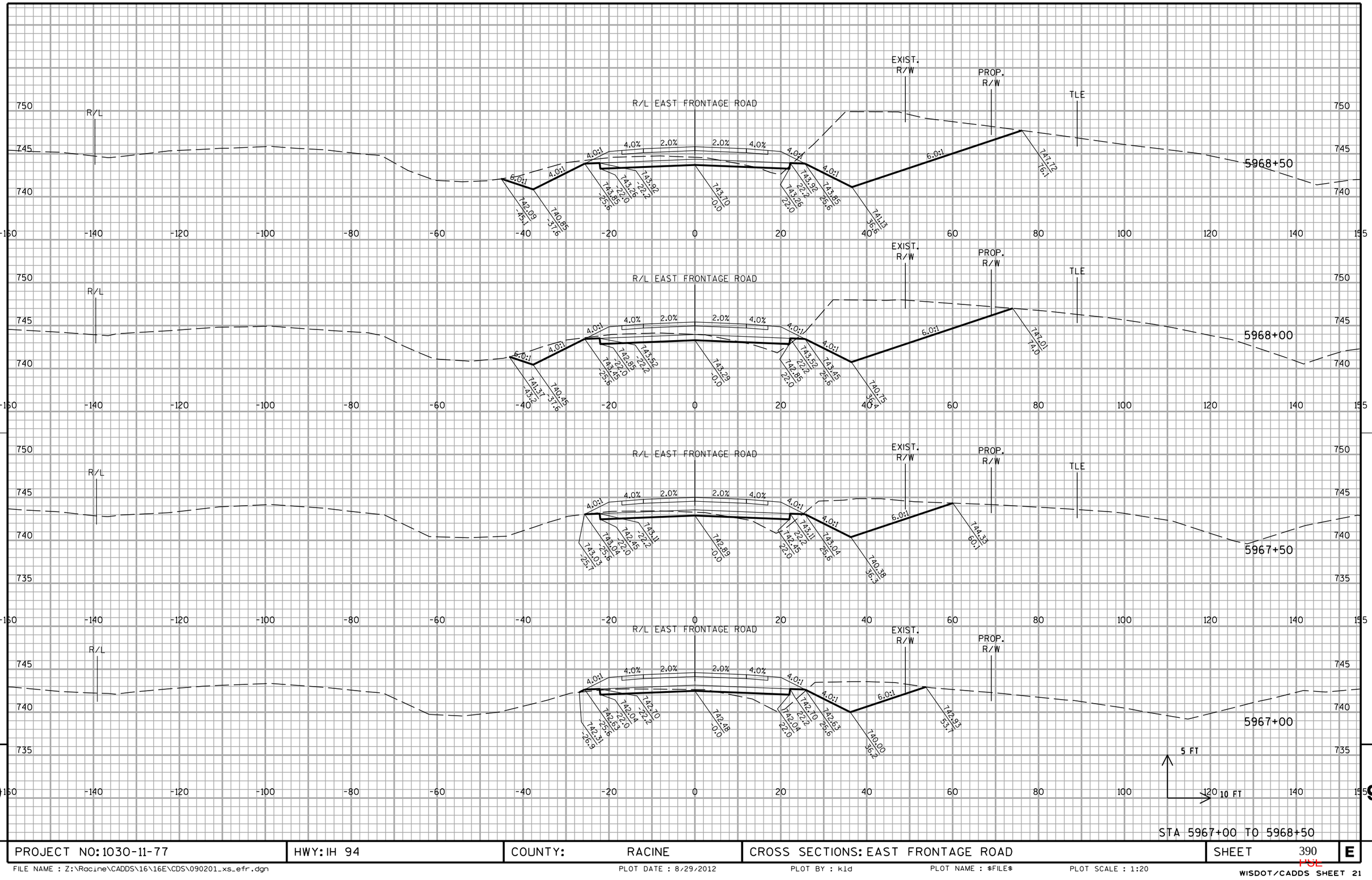
10301177-00008RDAPERM

STA 5965+00 TO 5966+50

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 389	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : $FILE$ | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



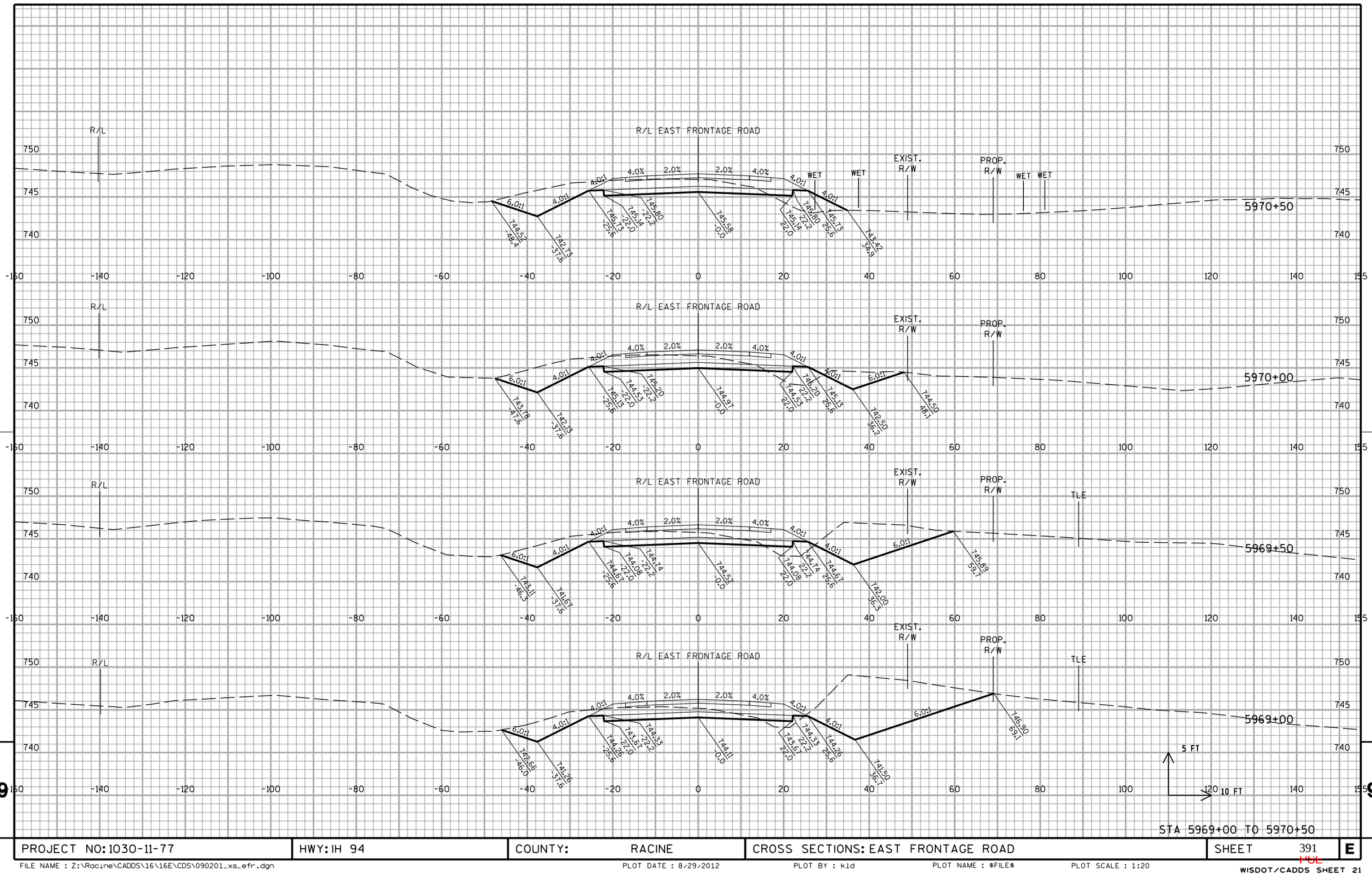
STA 5967+00 TO 5968+50

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 390	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : $FILE$ | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

10301177-00008RDAPERM



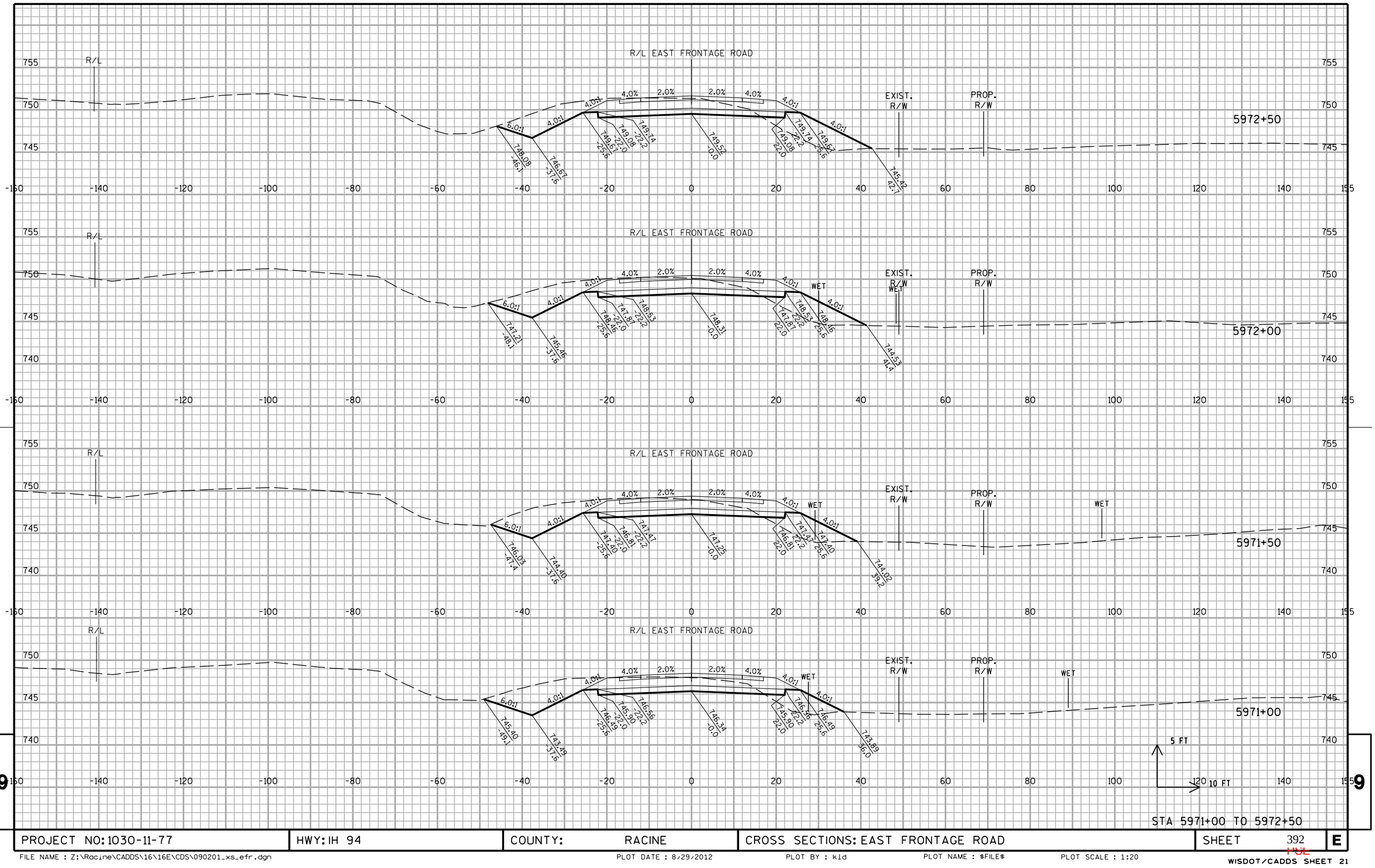
STA 5969+00 TO 5970+50

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 391	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

10301177-00008RDAPERM

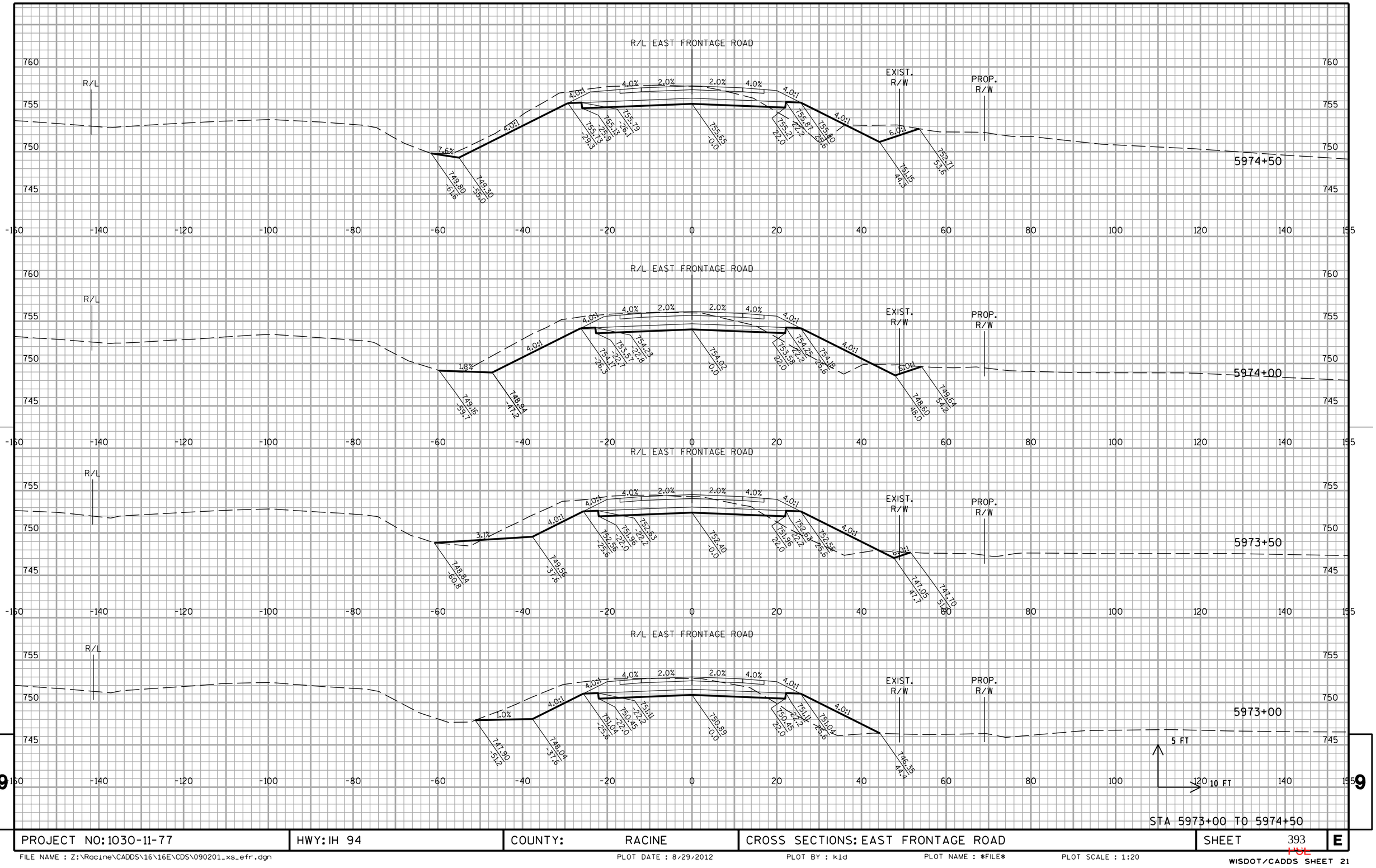


PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 392	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

10301177-00008RDAPERM



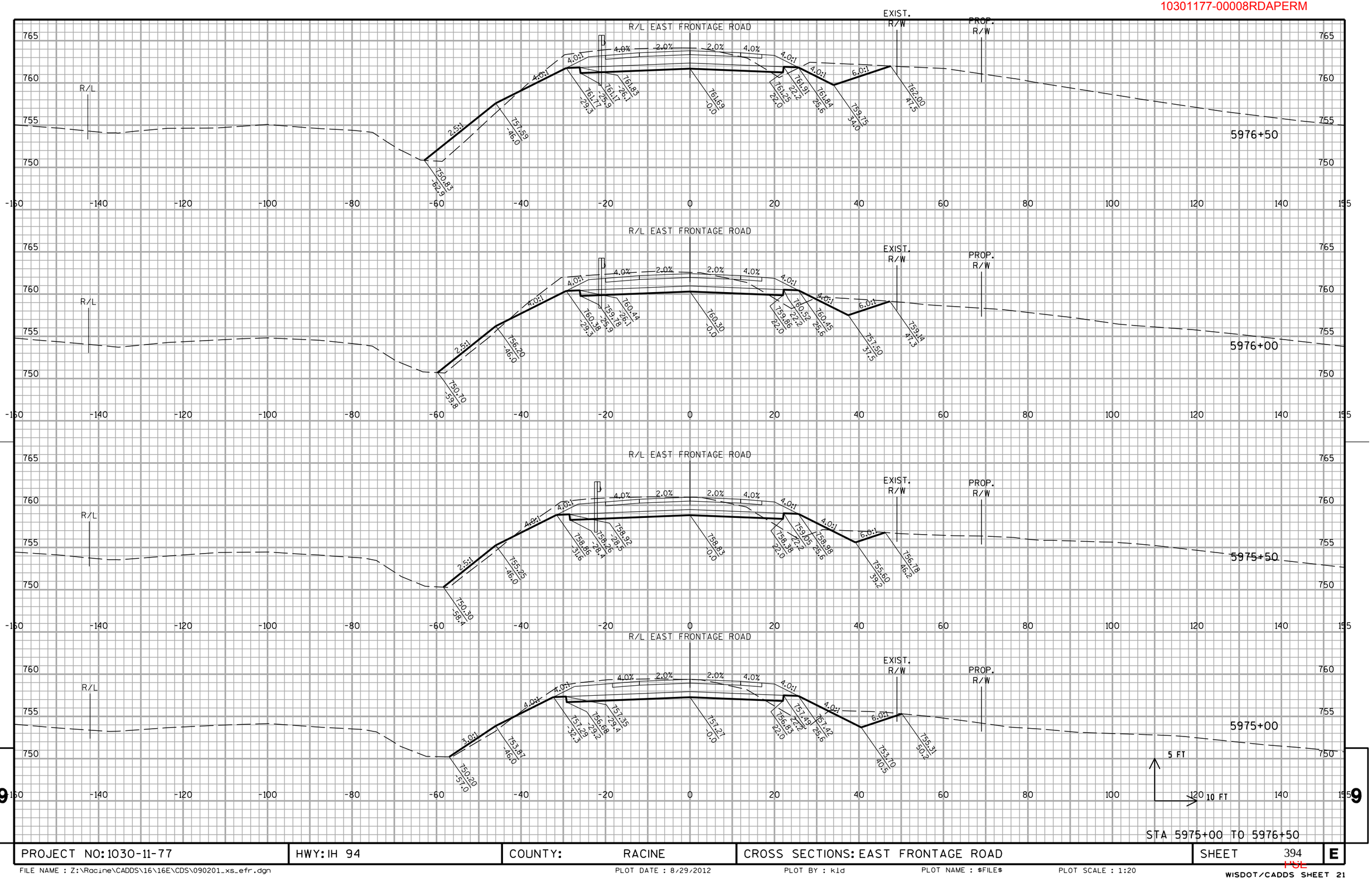
STA 5973+00 TO 5974+50

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 393	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

10301177-00008RDAPERM



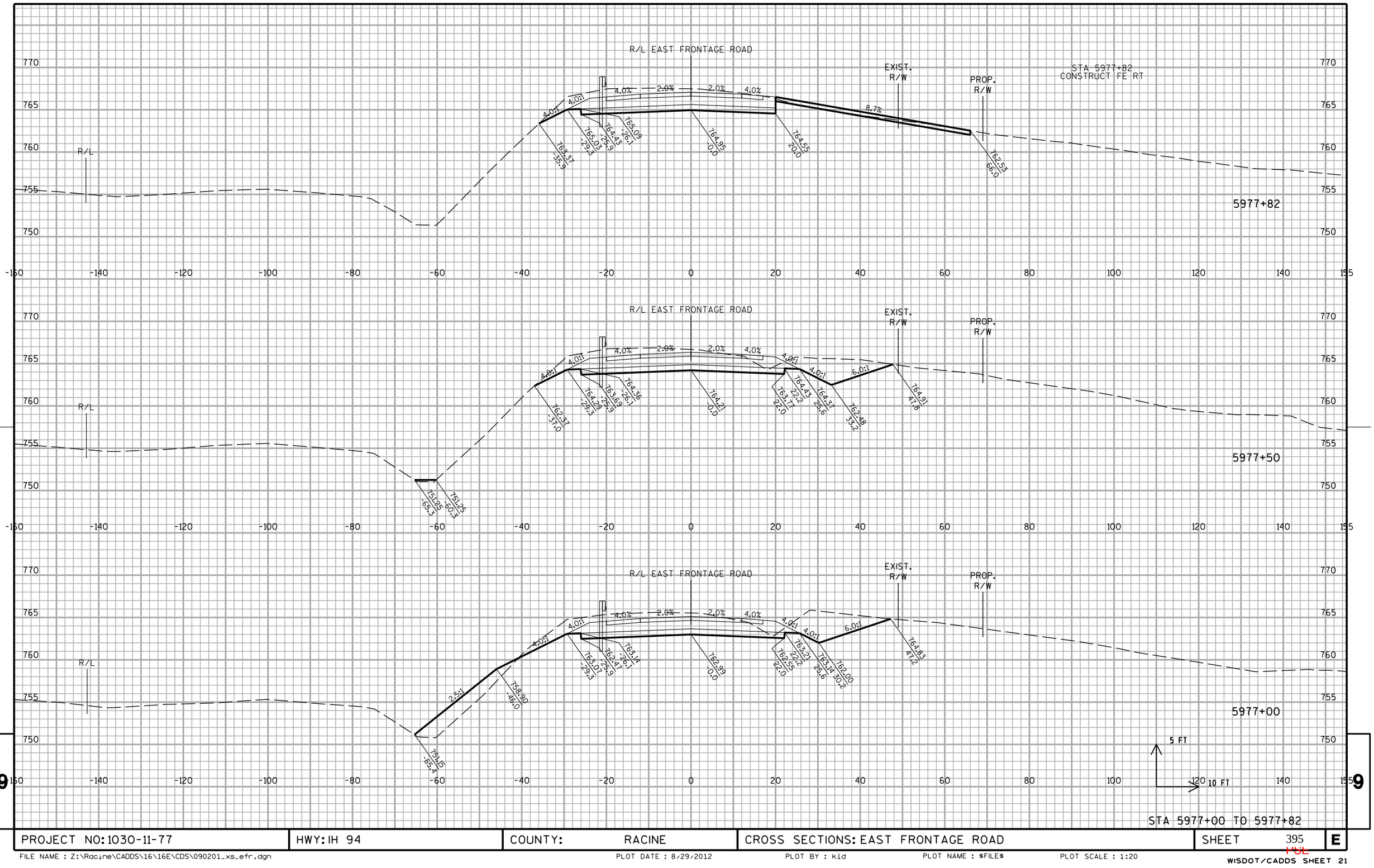
STA 5975+00 TO 5976+50

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 394	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

10301177-00008RDAPERM

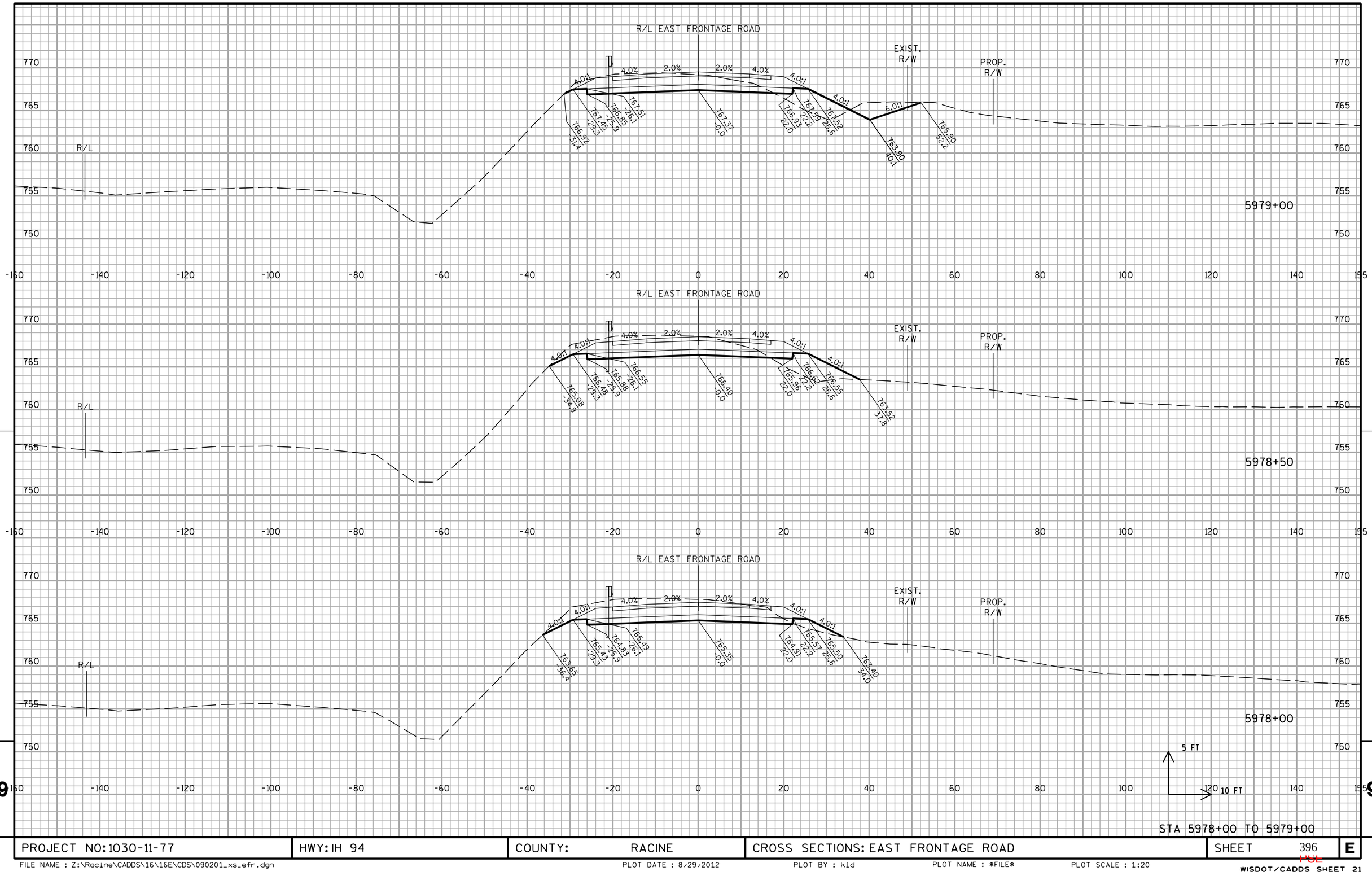


PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 395	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

10301177-00008RDAPERM

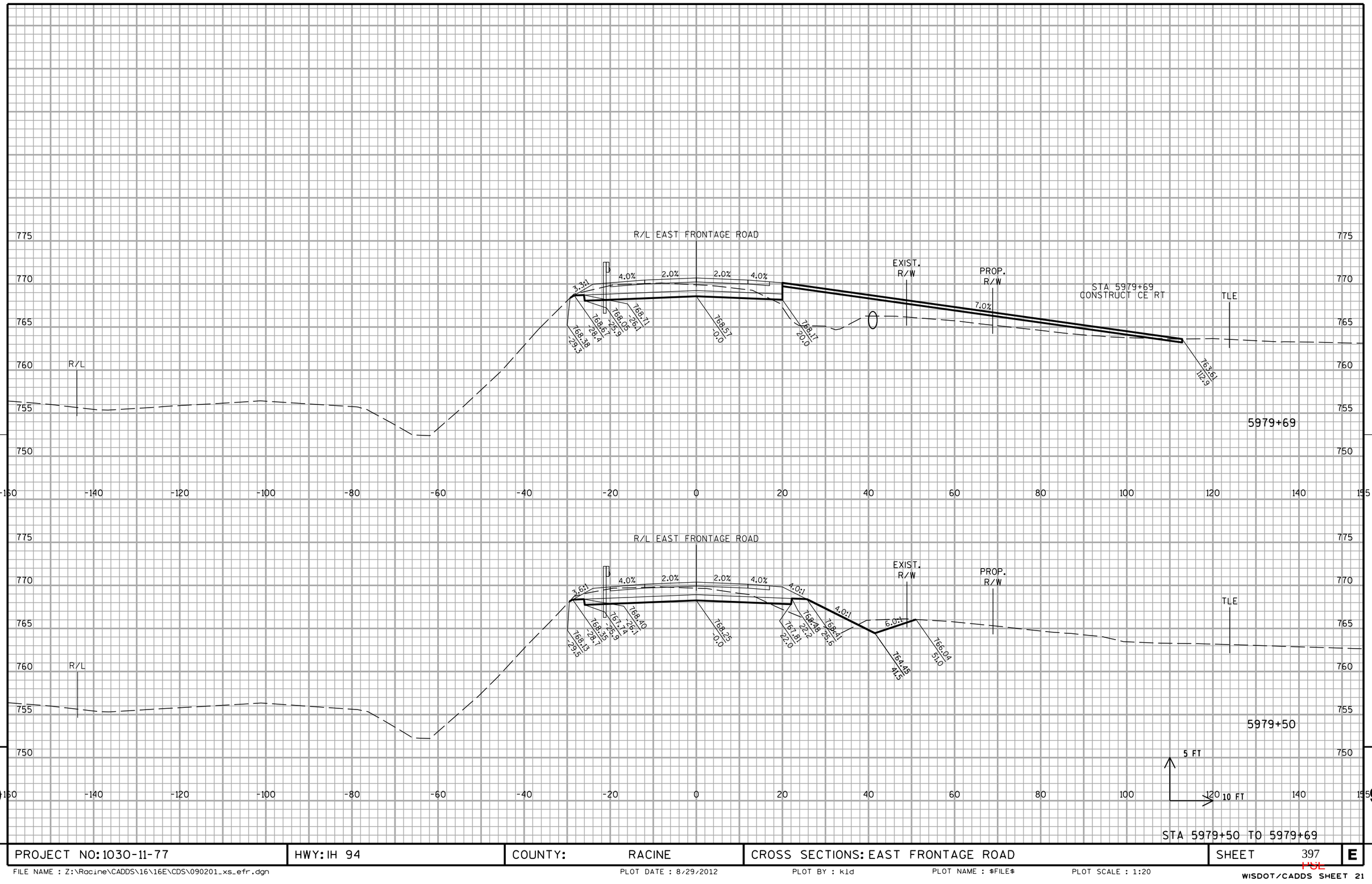


STA 5978+00 TO 5979+00

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 396	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



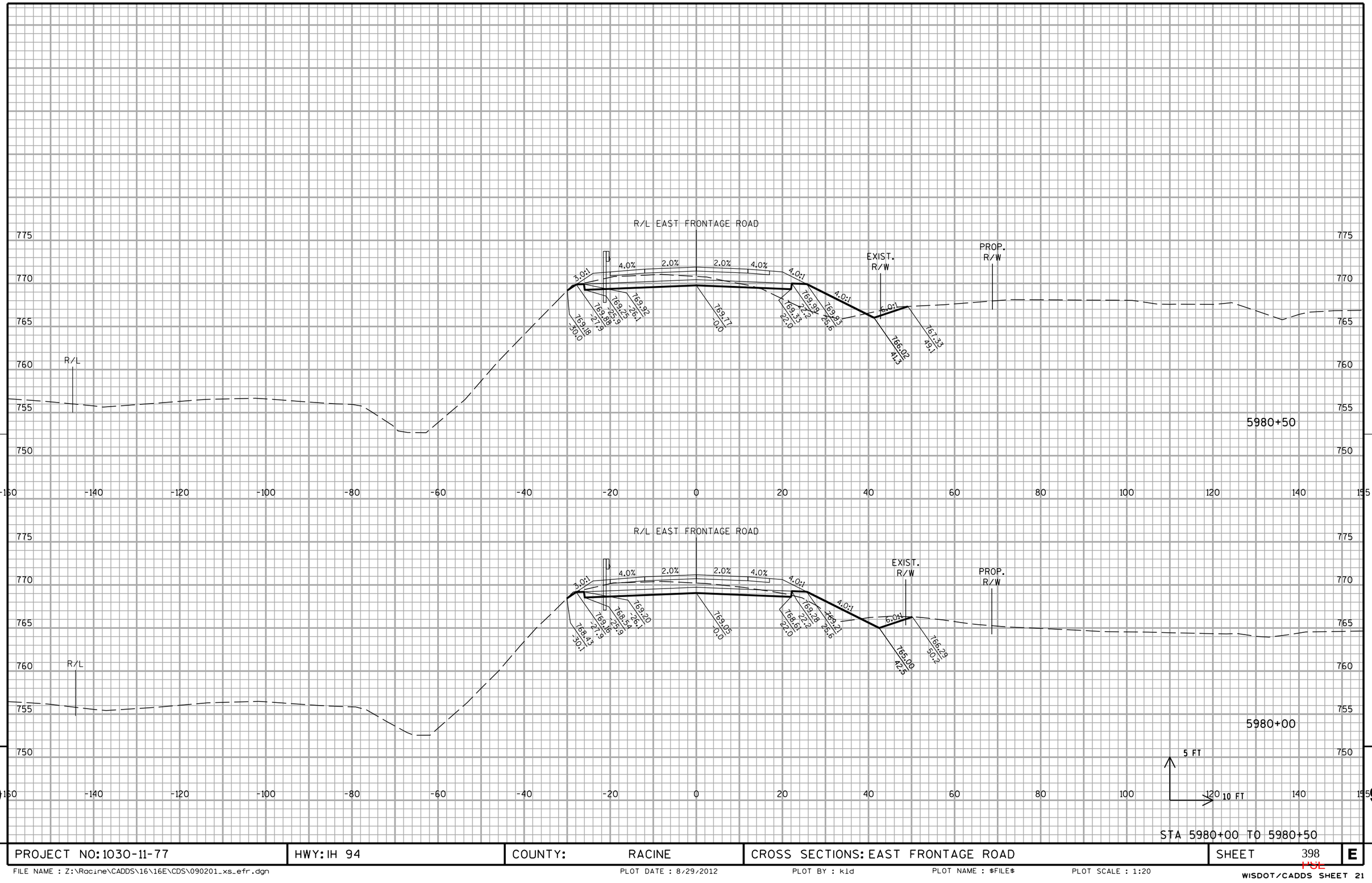
9

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 397	E

STA 5979+50 TO 5979+69

9

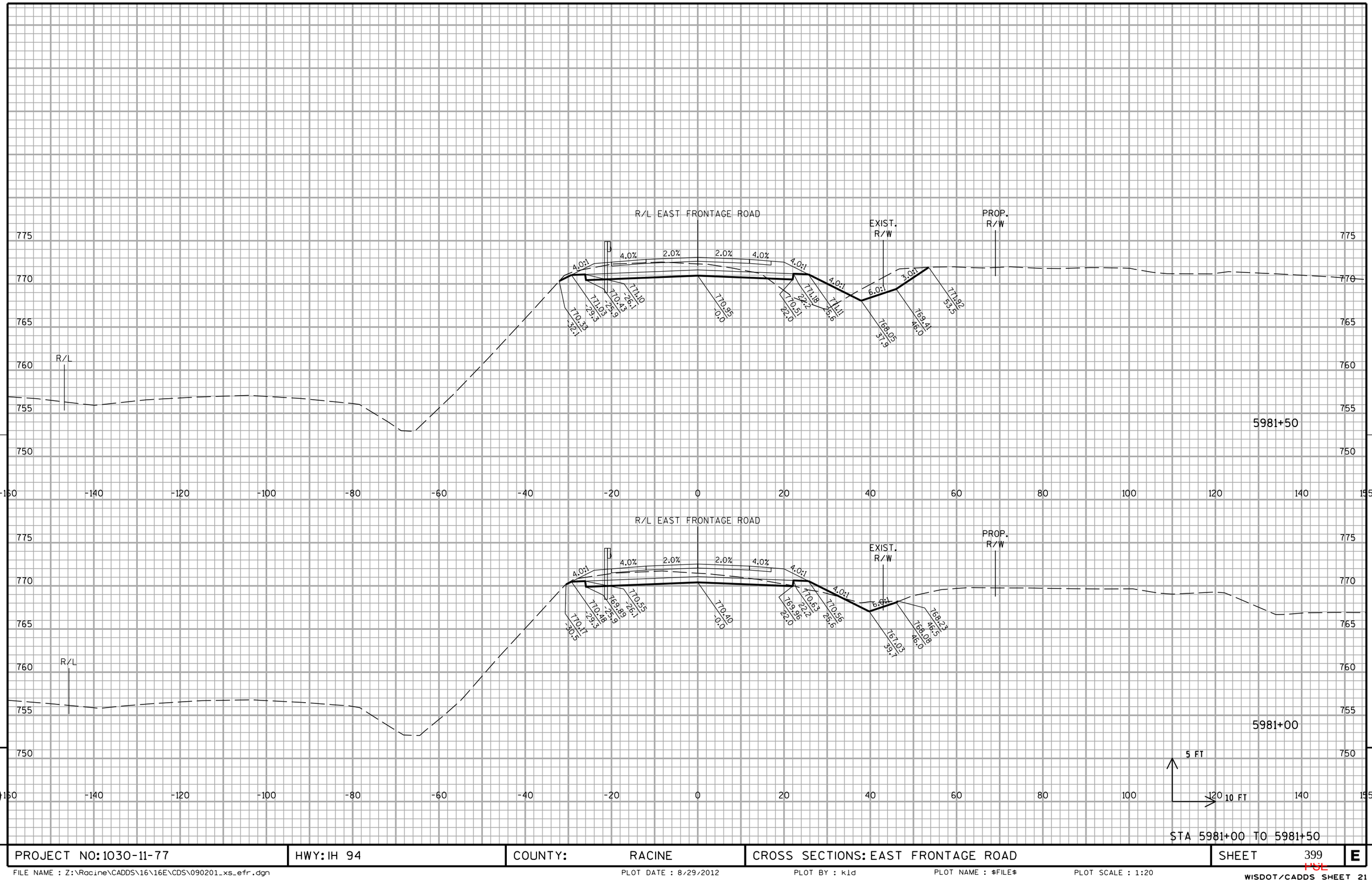
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PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 398	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:20

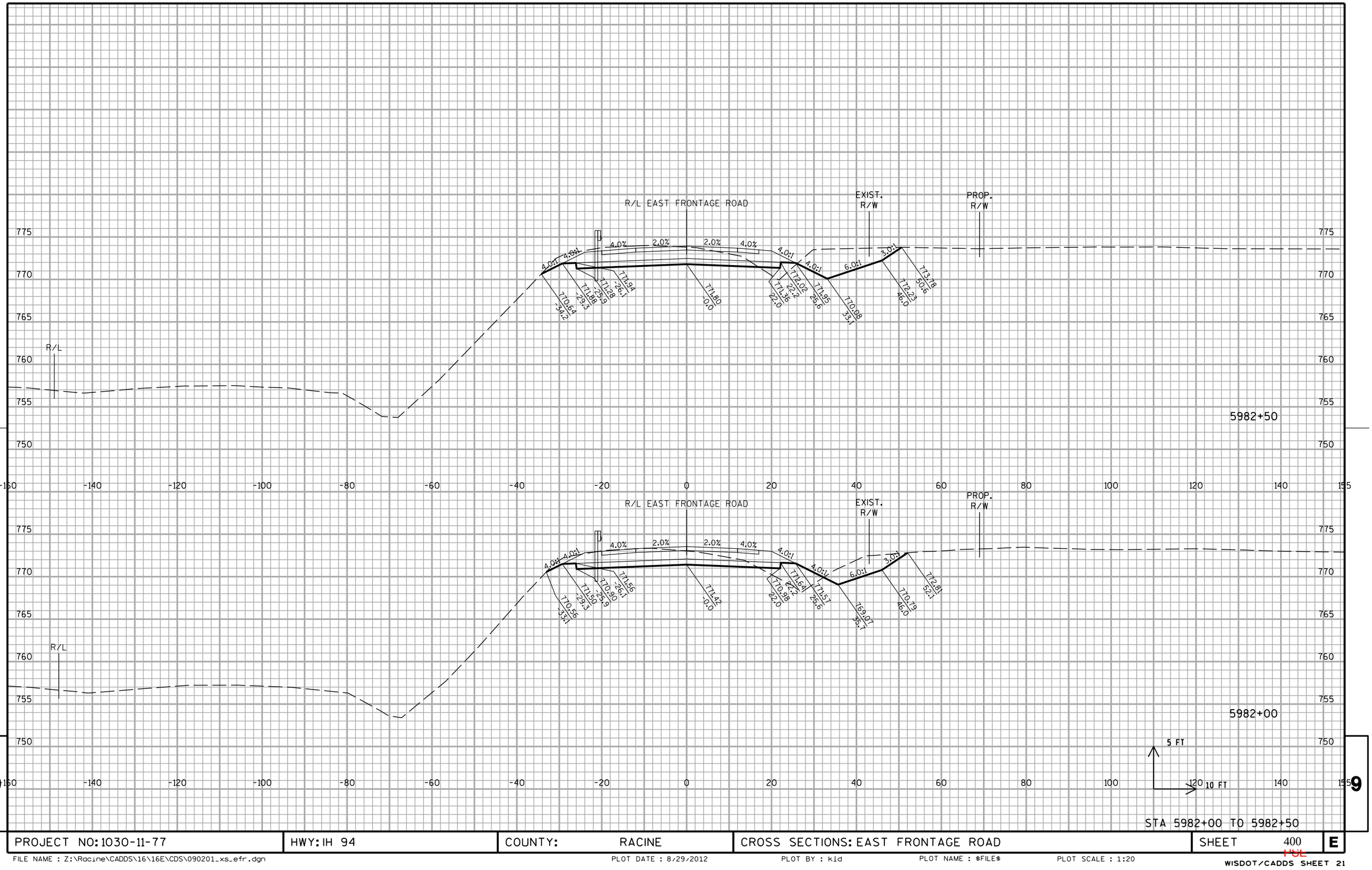
WISDOT/CADDS SHEET 21



PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 399 E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : $FILE$ | PLOT SCALE : 1:20

10301177-00008RDAPERM

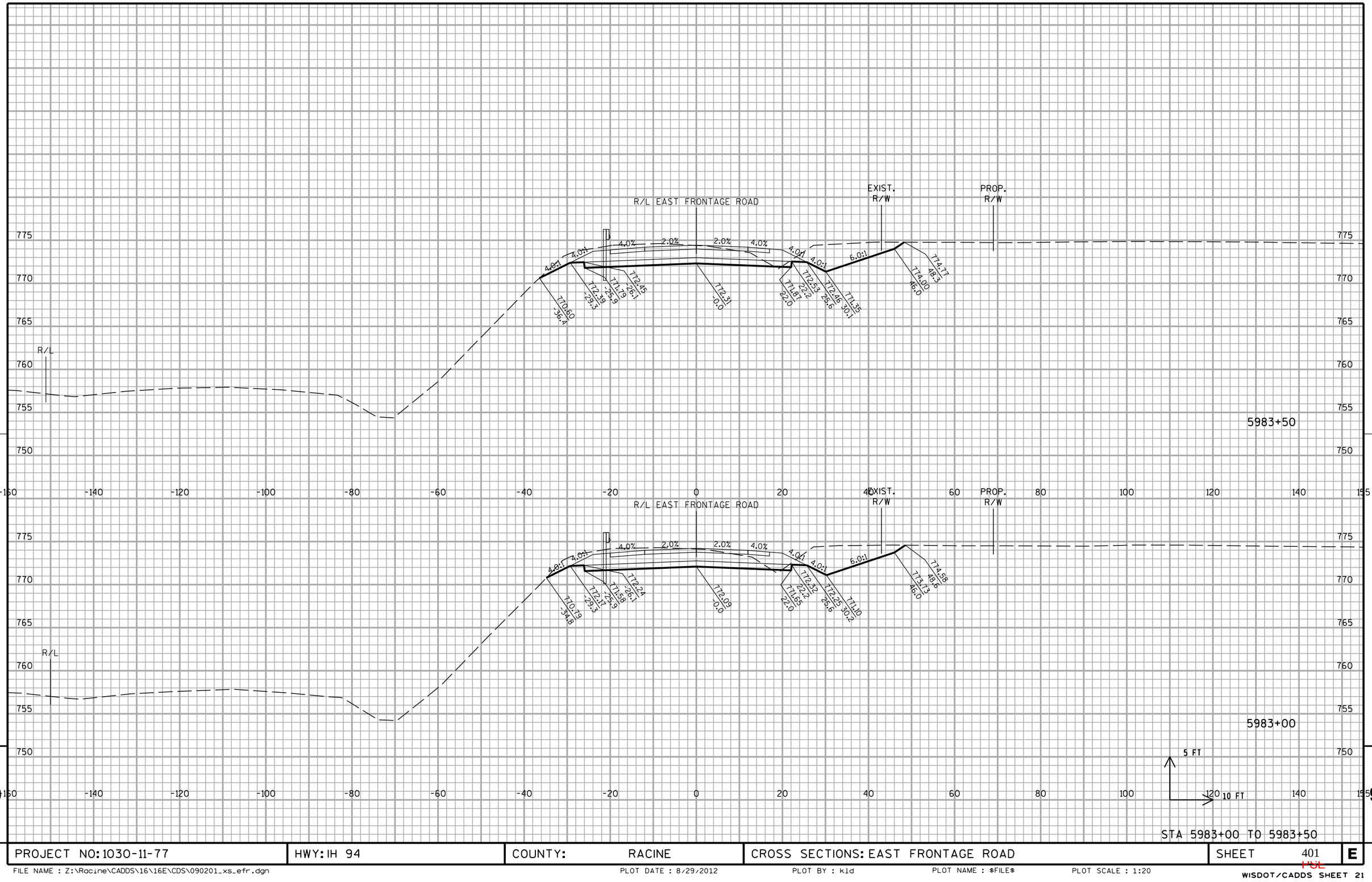


STA 5982+00 TO 5982+50

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 400	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:20

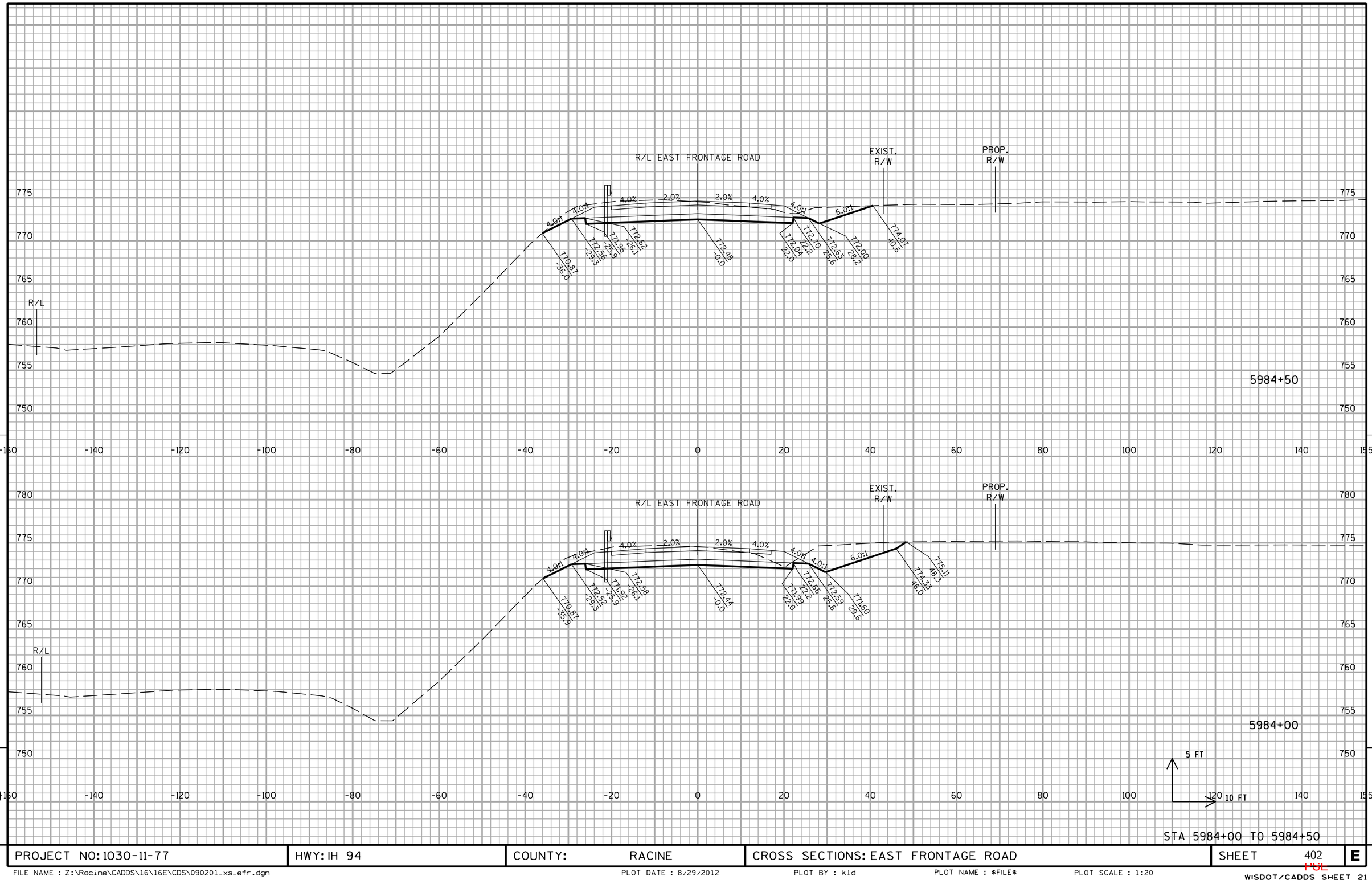
WISDOT/CADDS SHEET 21



PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 401	E

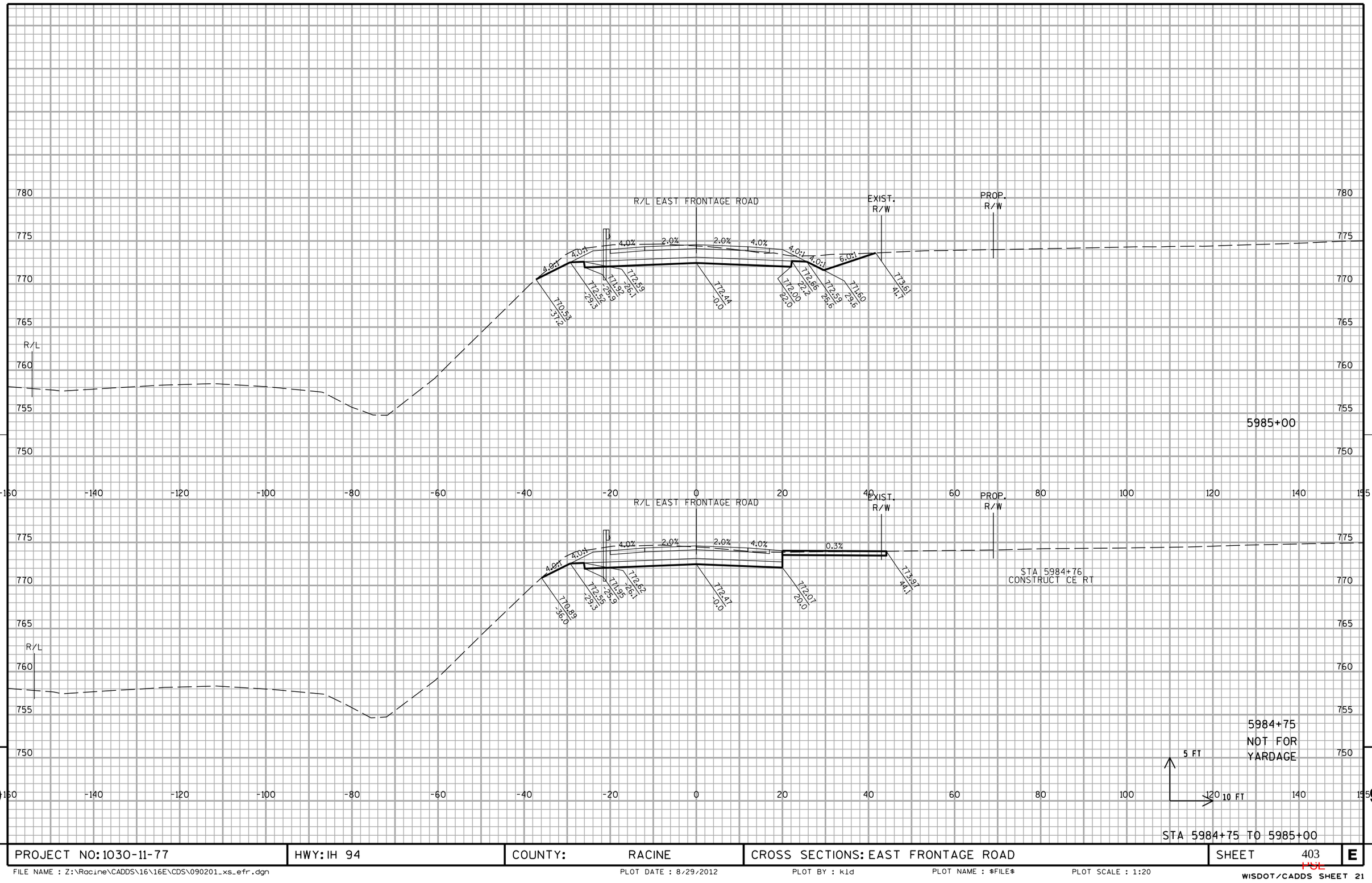
FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 402	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:20

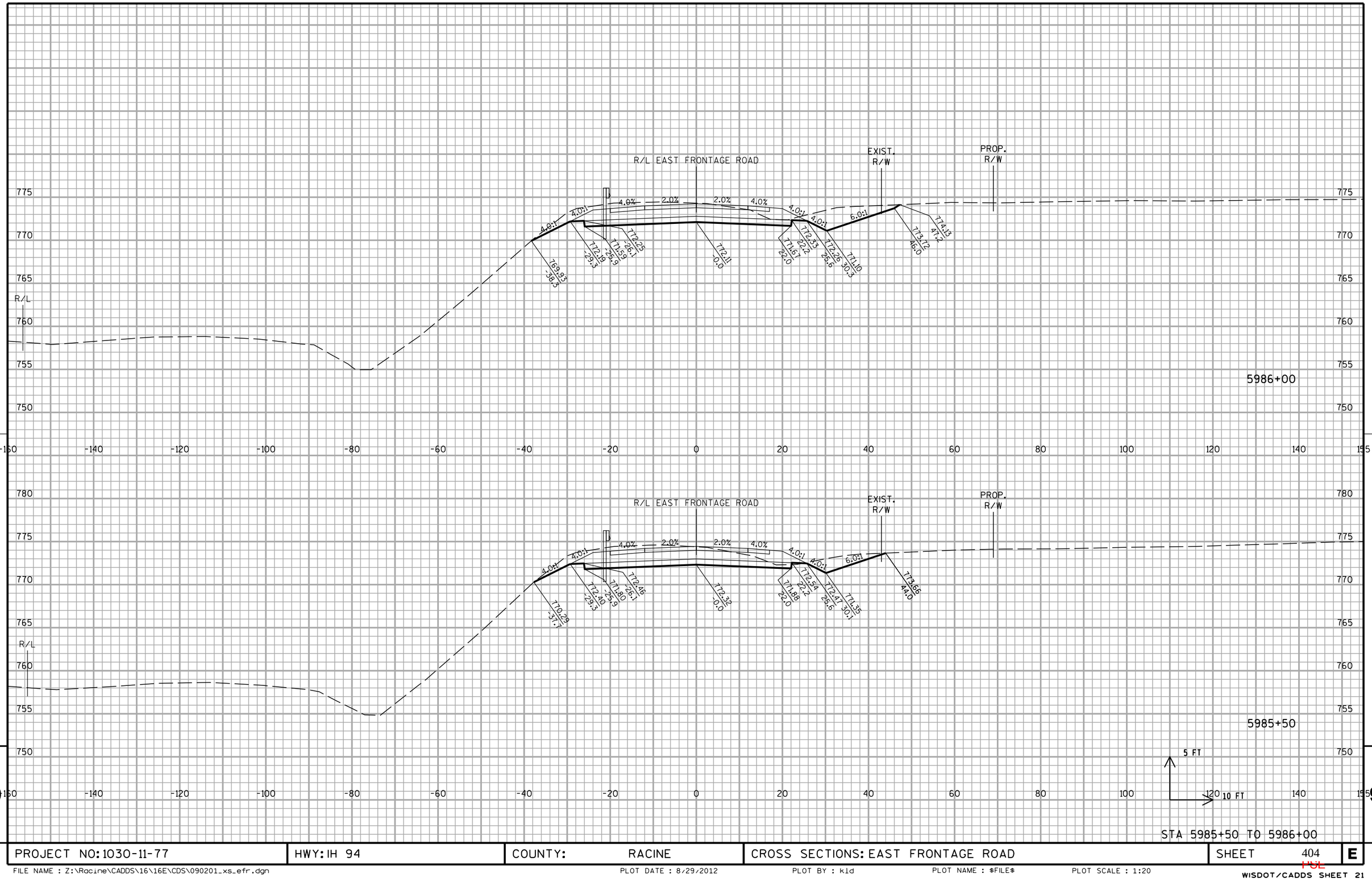


PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 403	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

10301177-00008RDAPERM

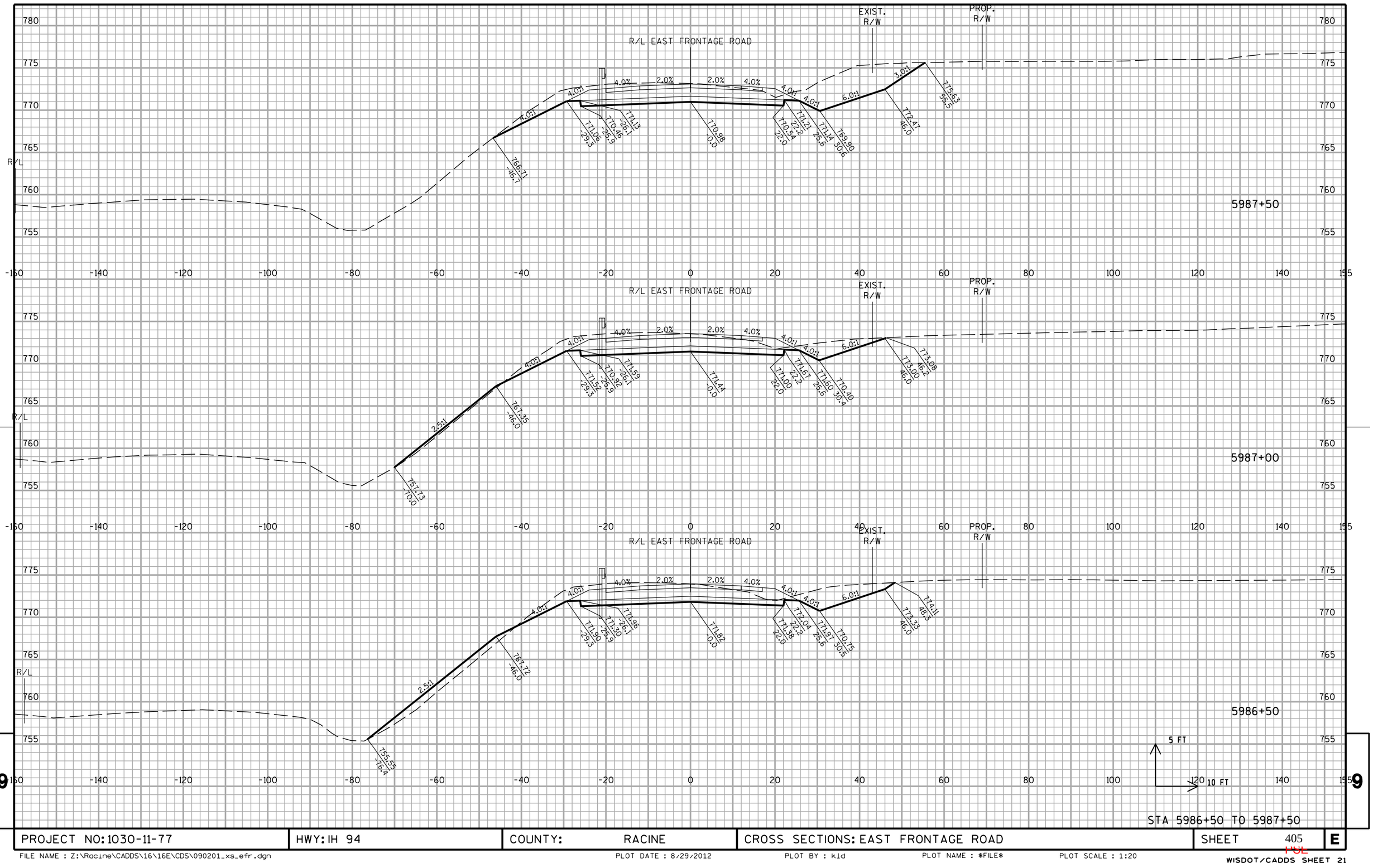


STA 5985+50 TO 5986+00

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 404	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

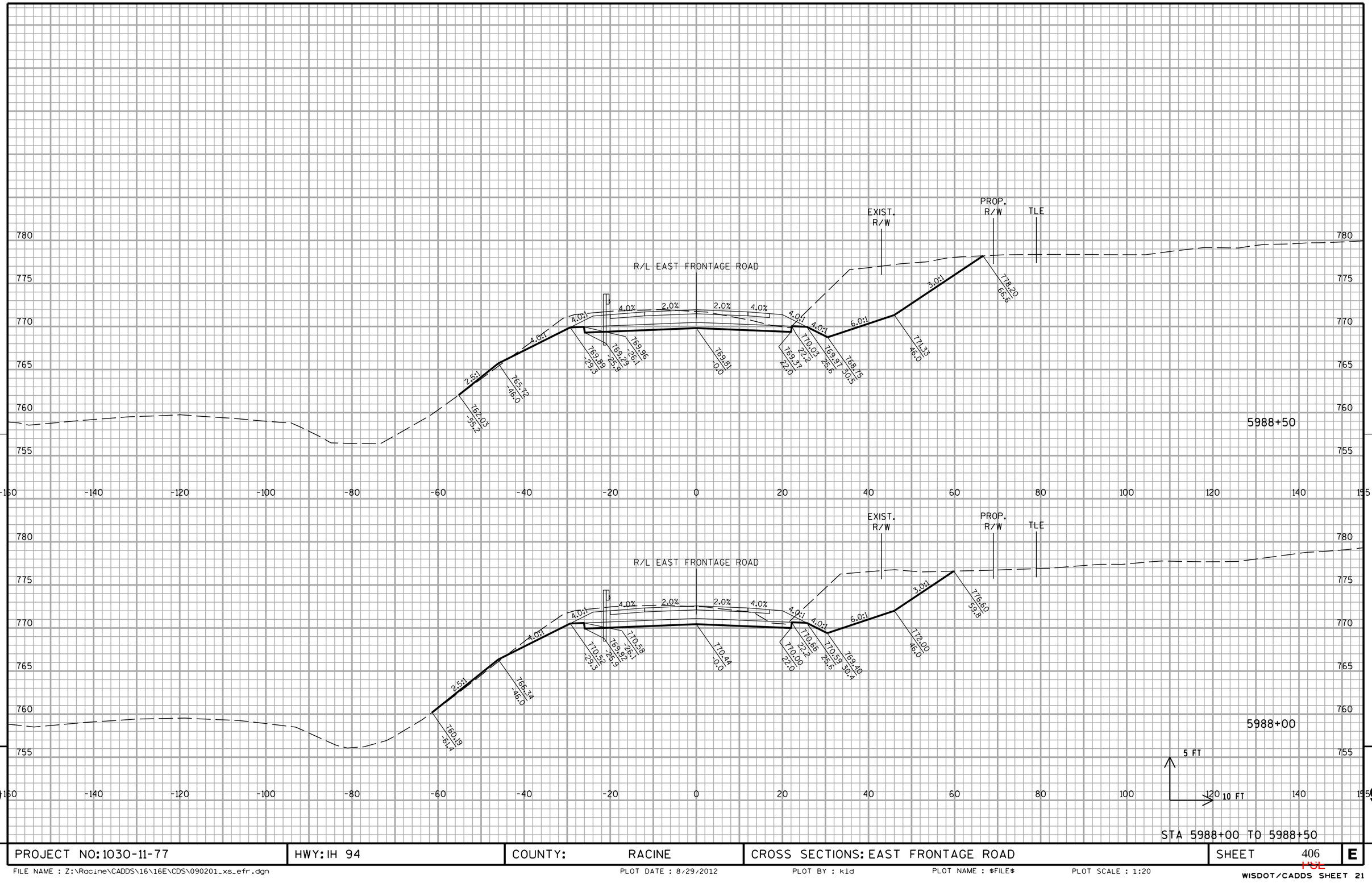


STA 5986+50 TO 5987+50

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 405	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:20

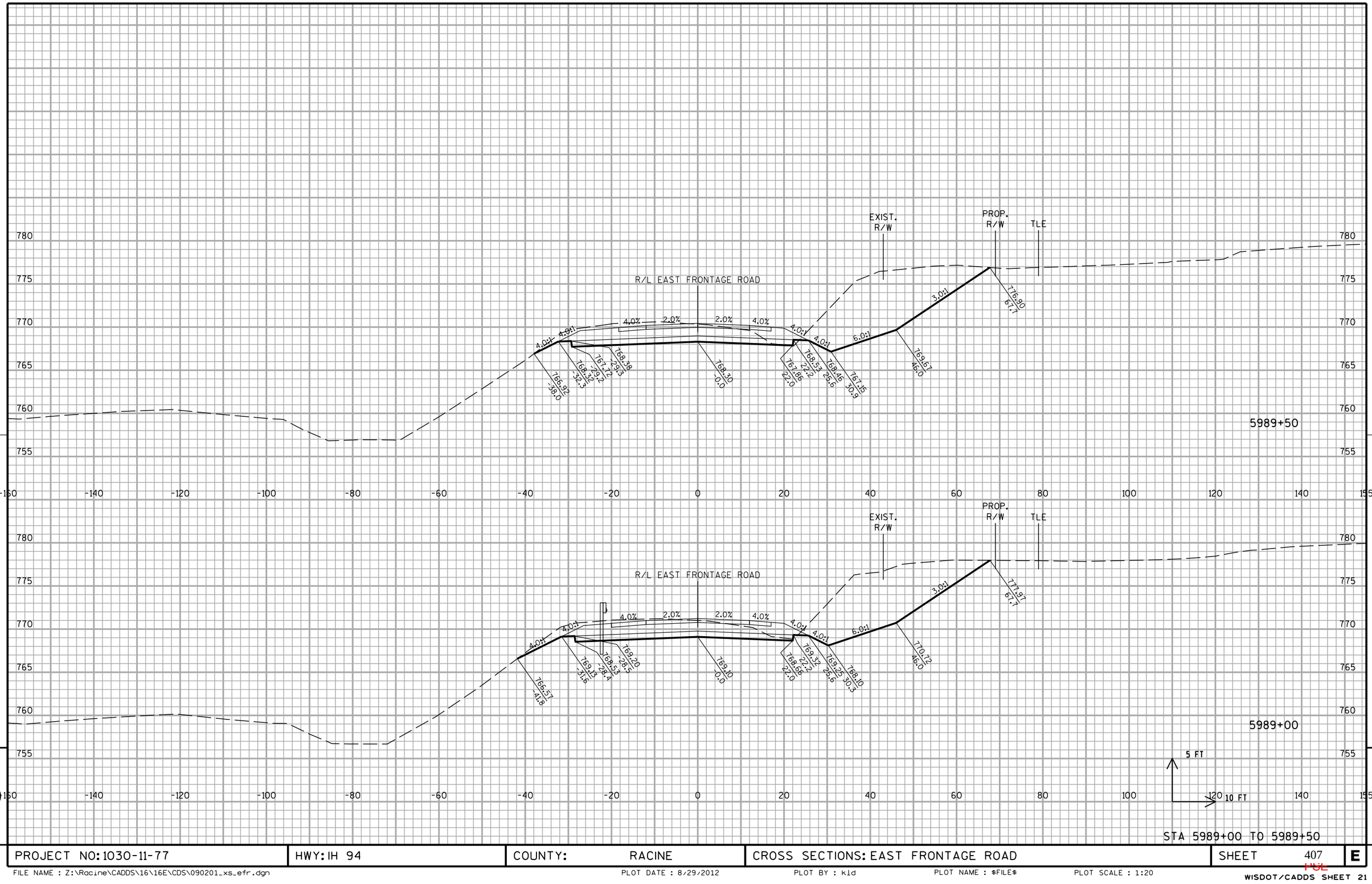
WISDOT/CADDS SHEET 21



STA 5988+00 TO 5988+50

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 406	E

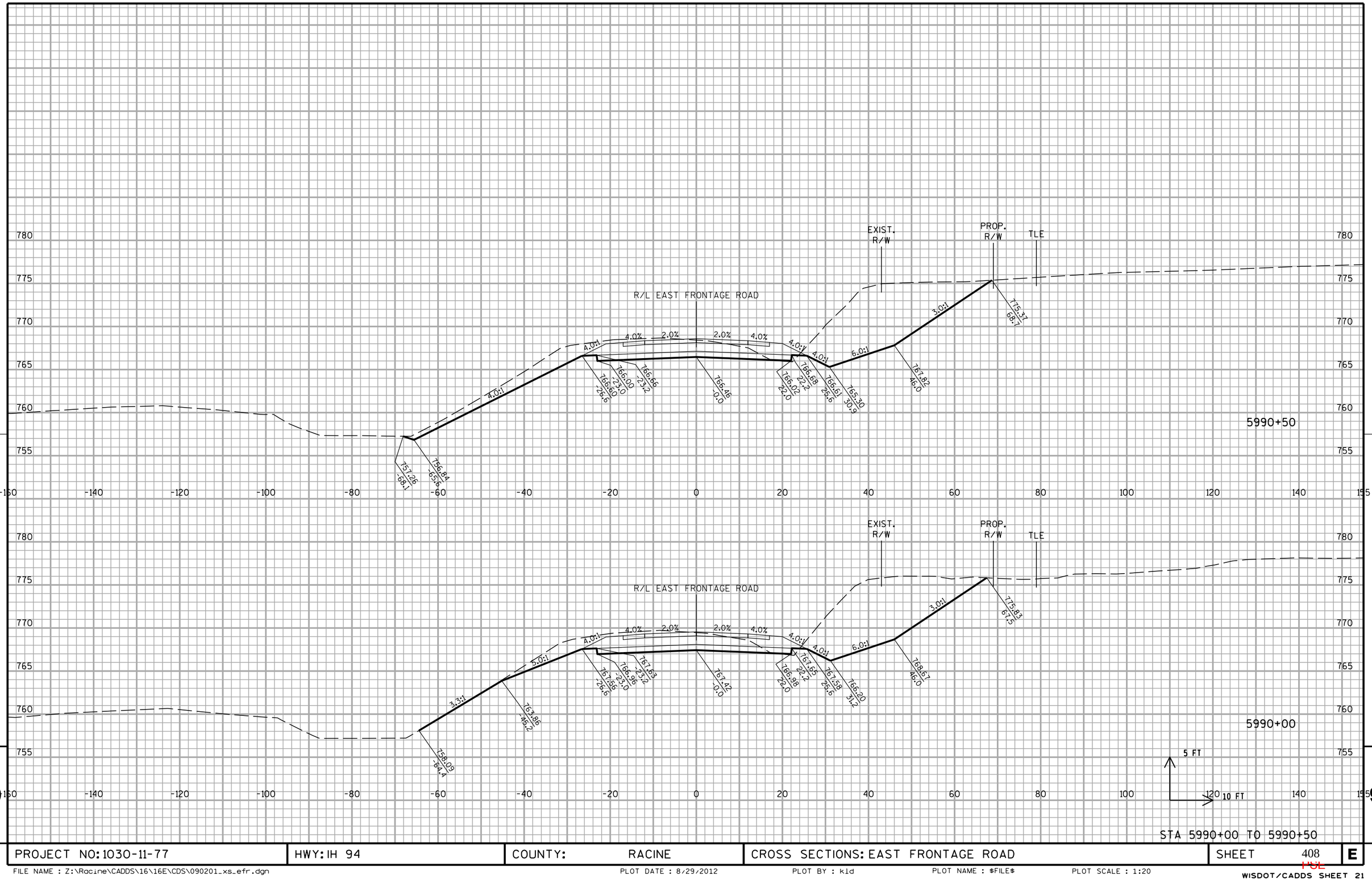
FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:20



PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 407	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



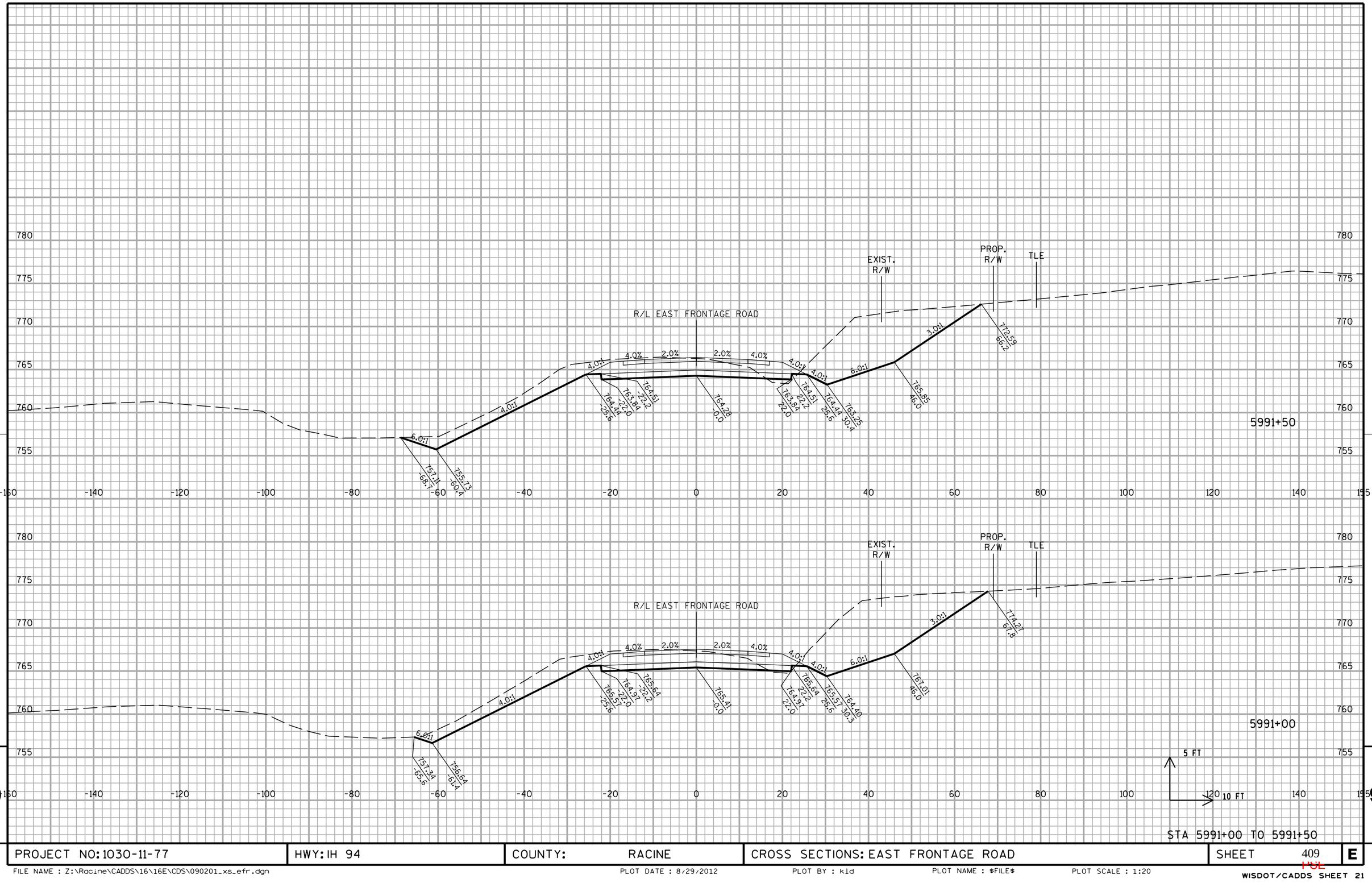
STA 5990+00 TO 5990+50

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 408	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

10301177-00008RDAPERM

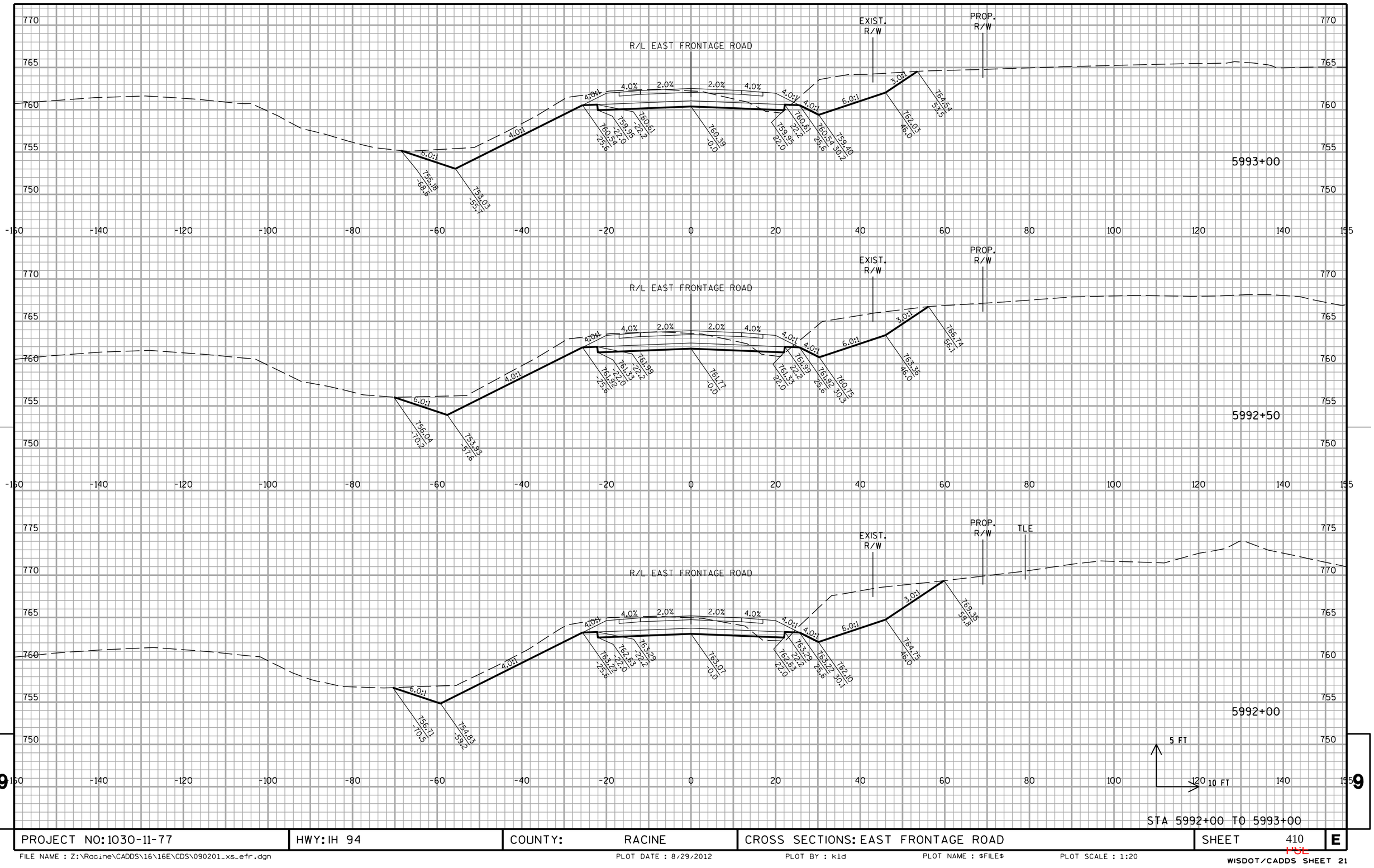


PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 409	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

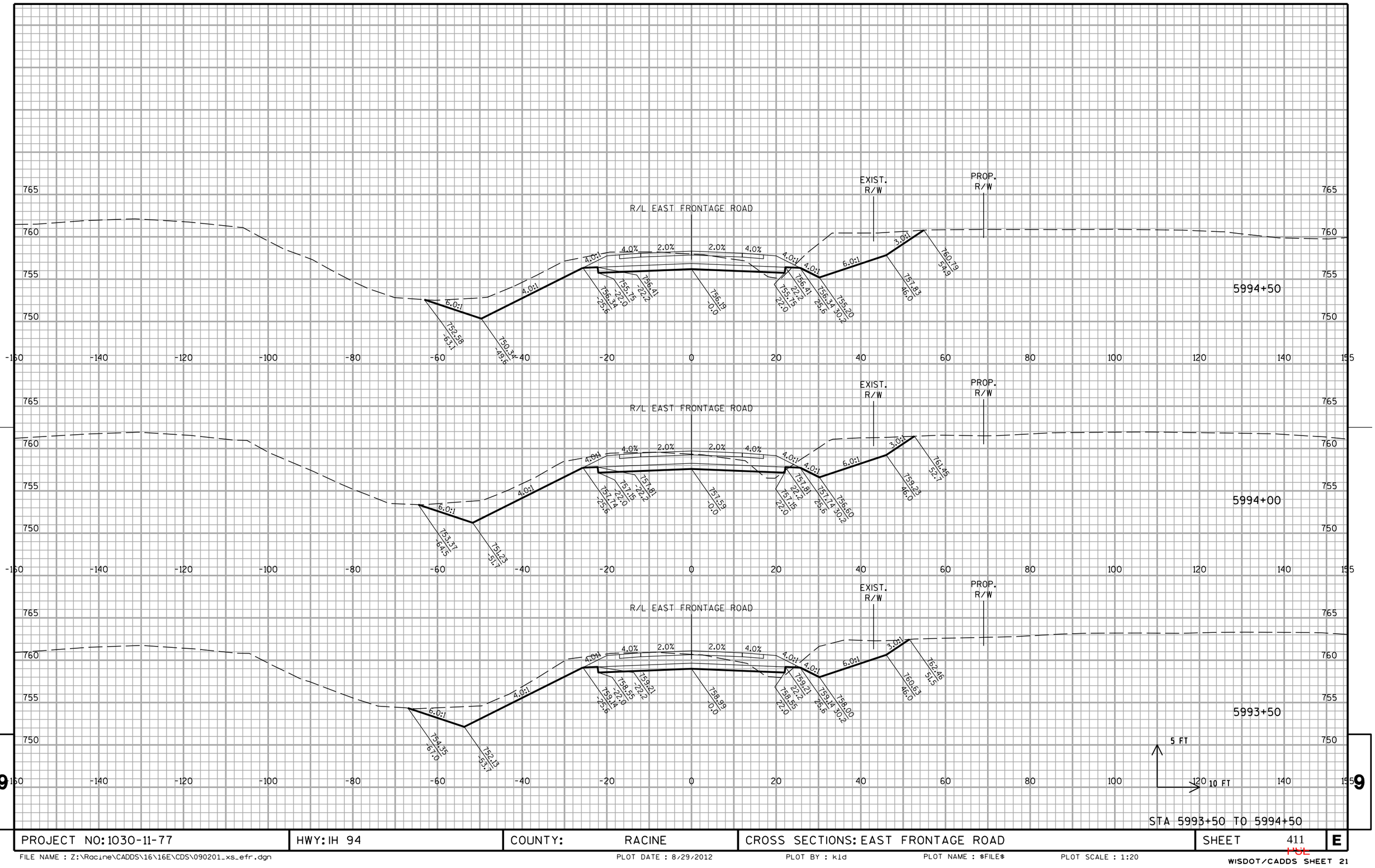
10301177-00008RDAPERM



PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 410	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

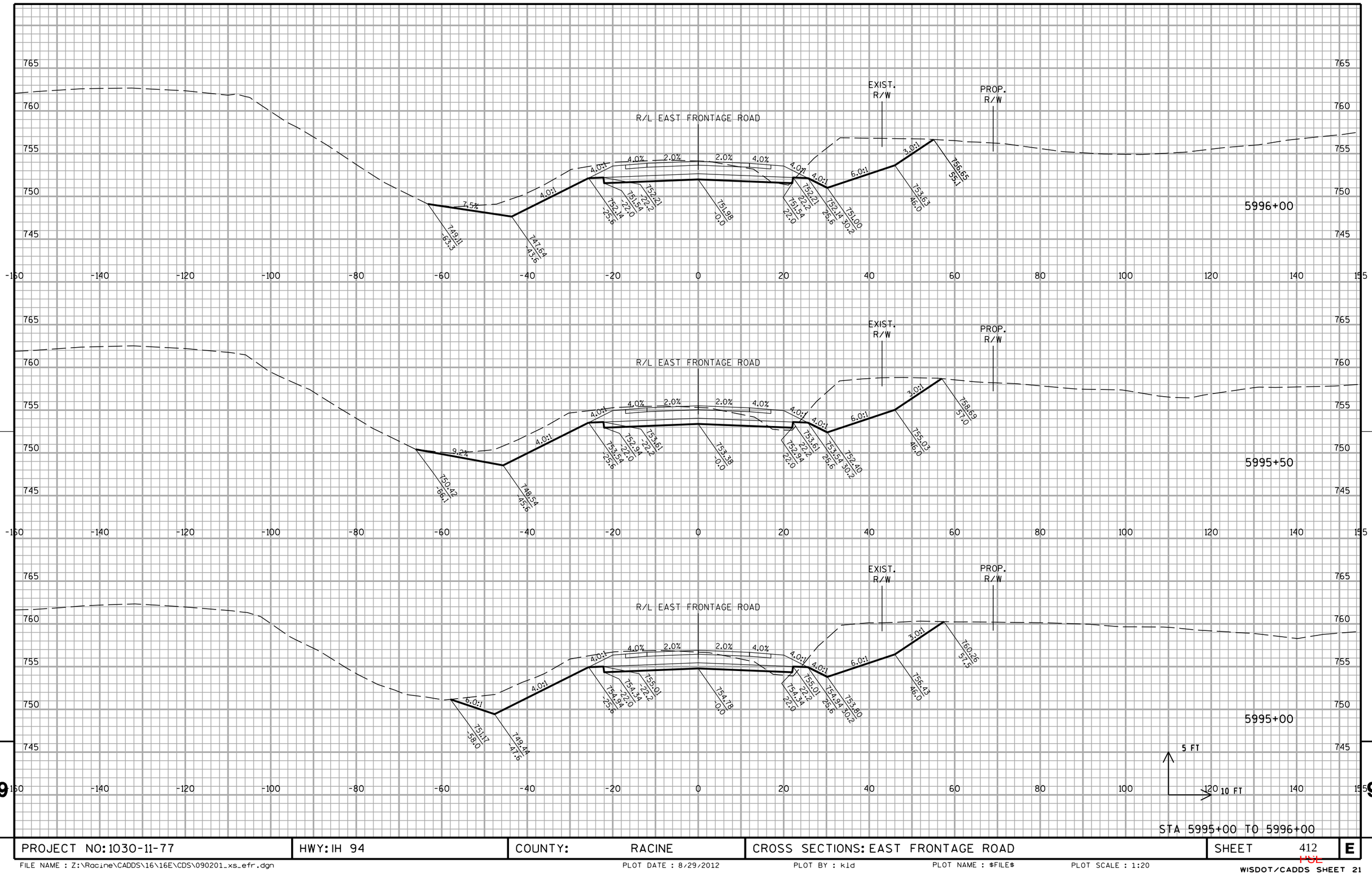


STA 5993+50 TO 5994+50

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 411	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

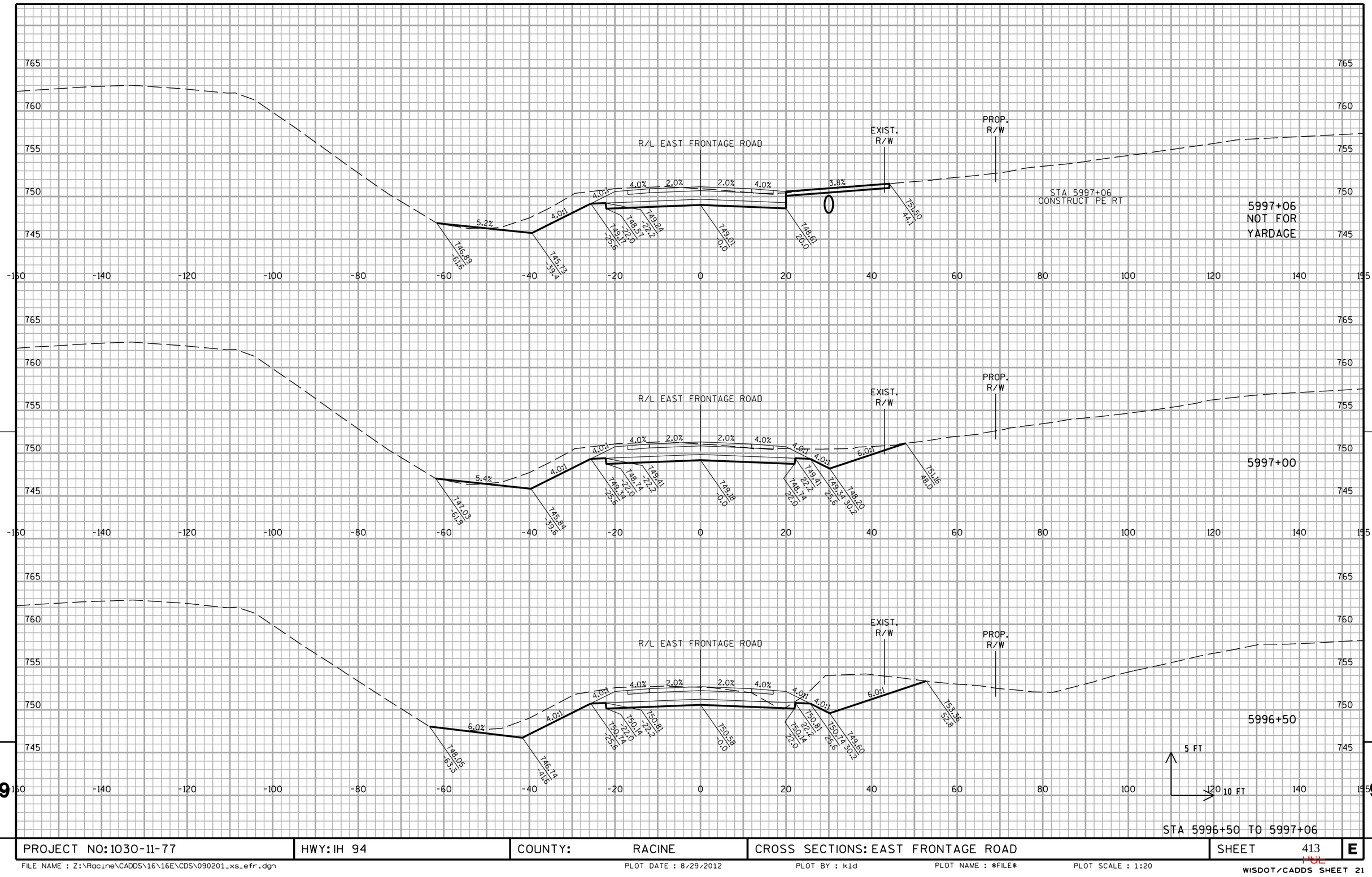


STA 5995+00 TO 5996+00

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 412	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : $FILE$ | PLOT SCALE : 1:20

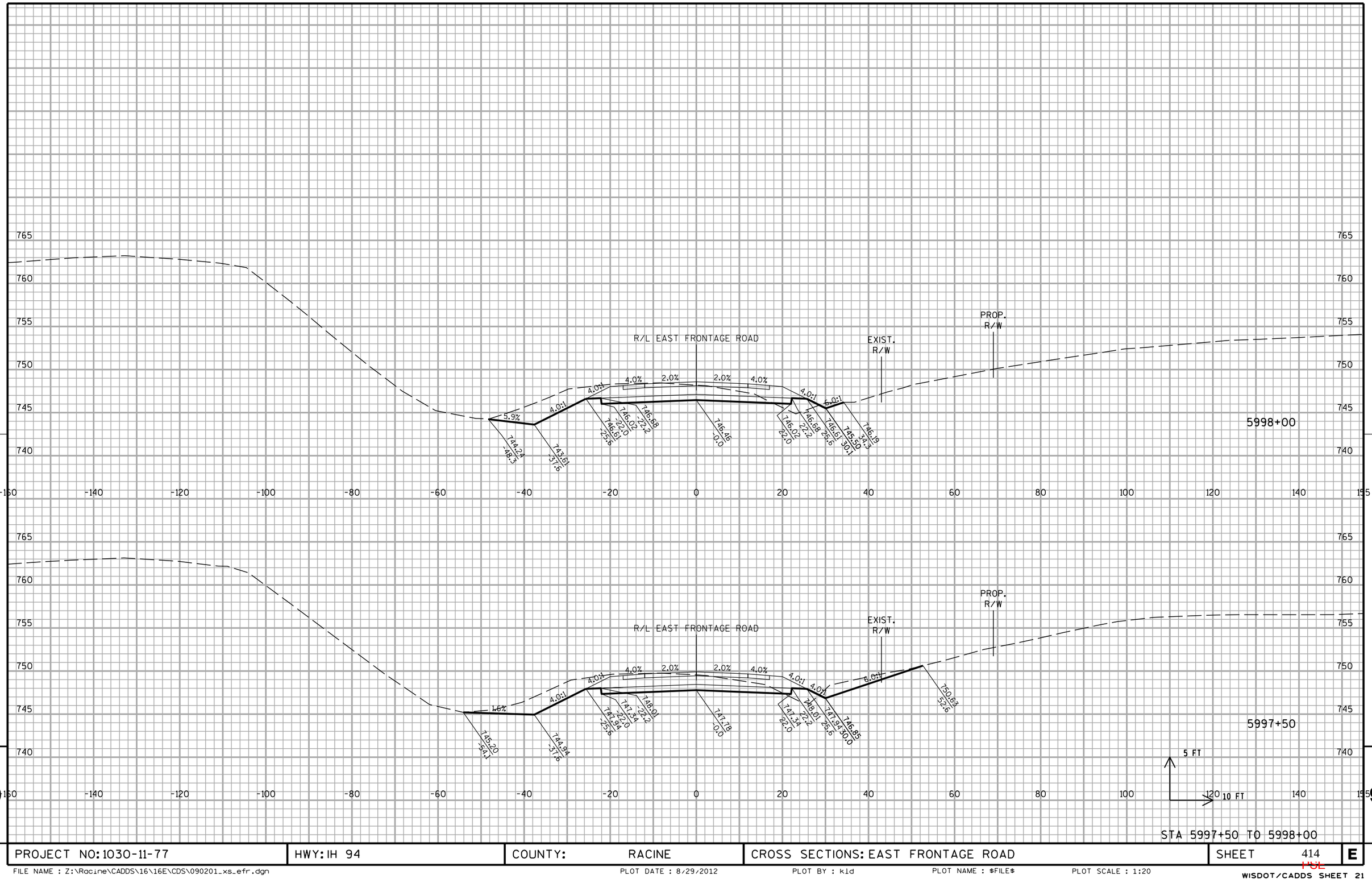
10301177-00008RDAPERM



PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 413	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



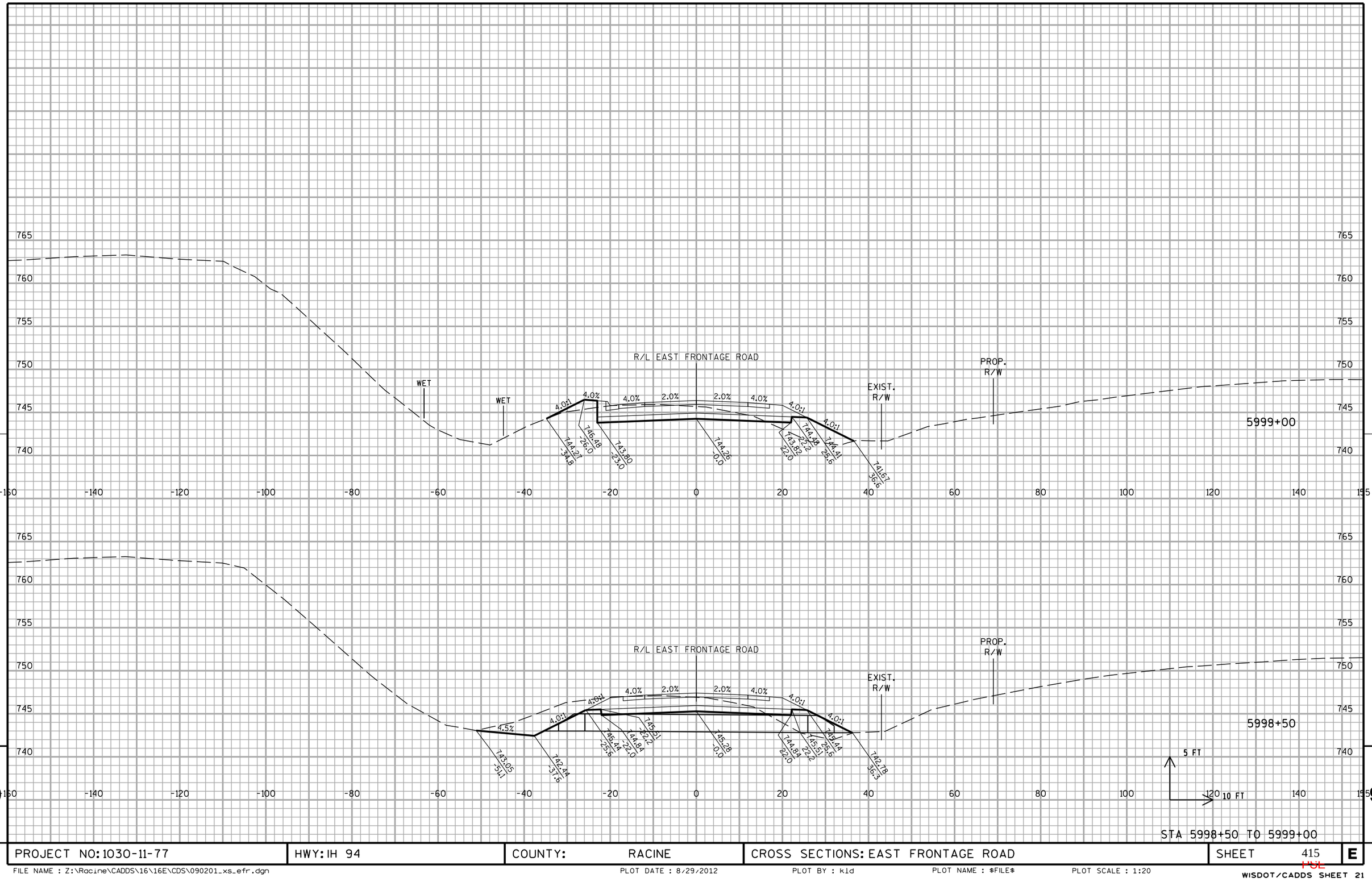
STA 5997+50 TO 5998+00

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 414	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

10301177-00008RDAPERM

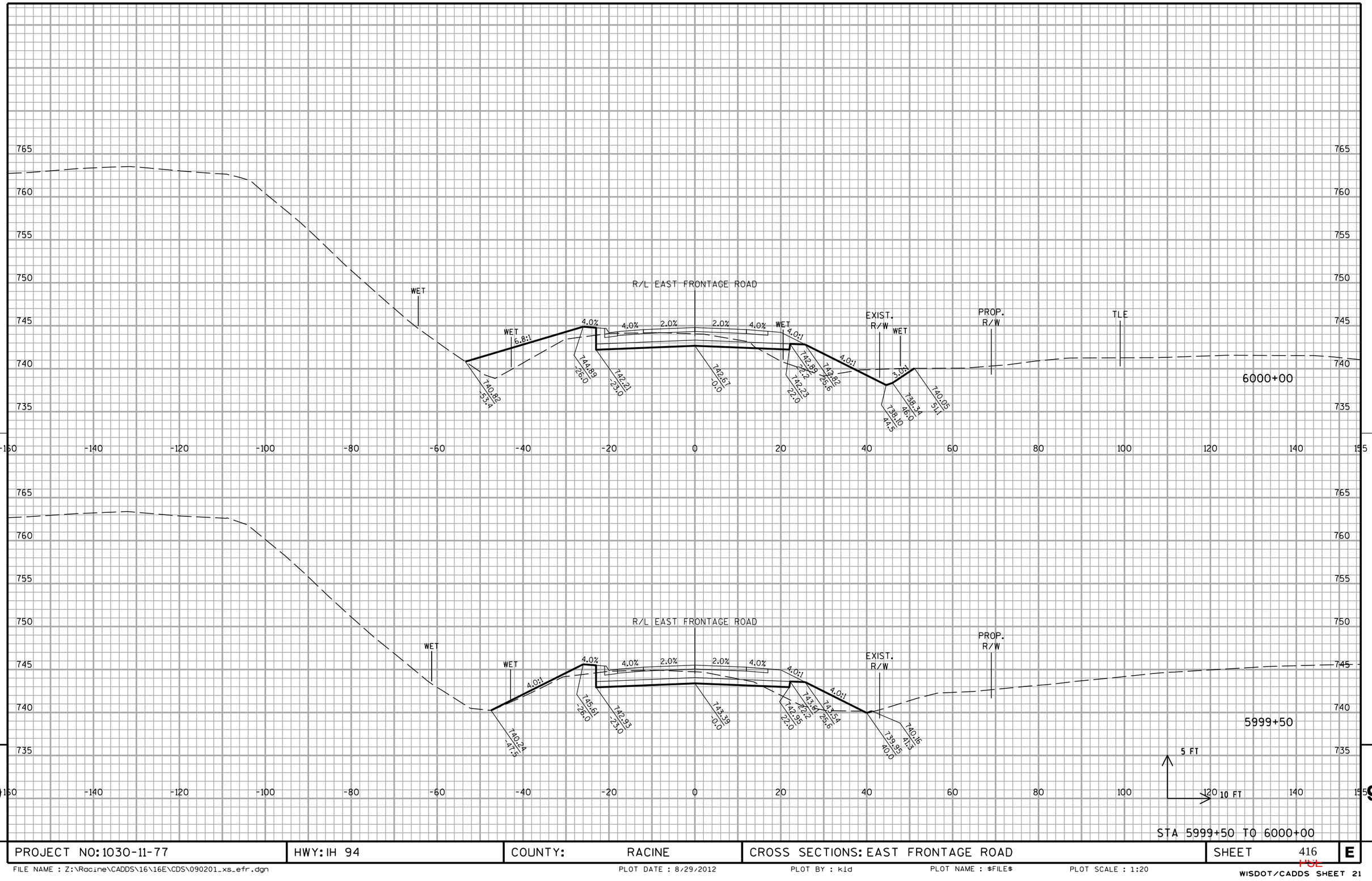


STA 5998+50 TO 5999+00

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 415	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:20

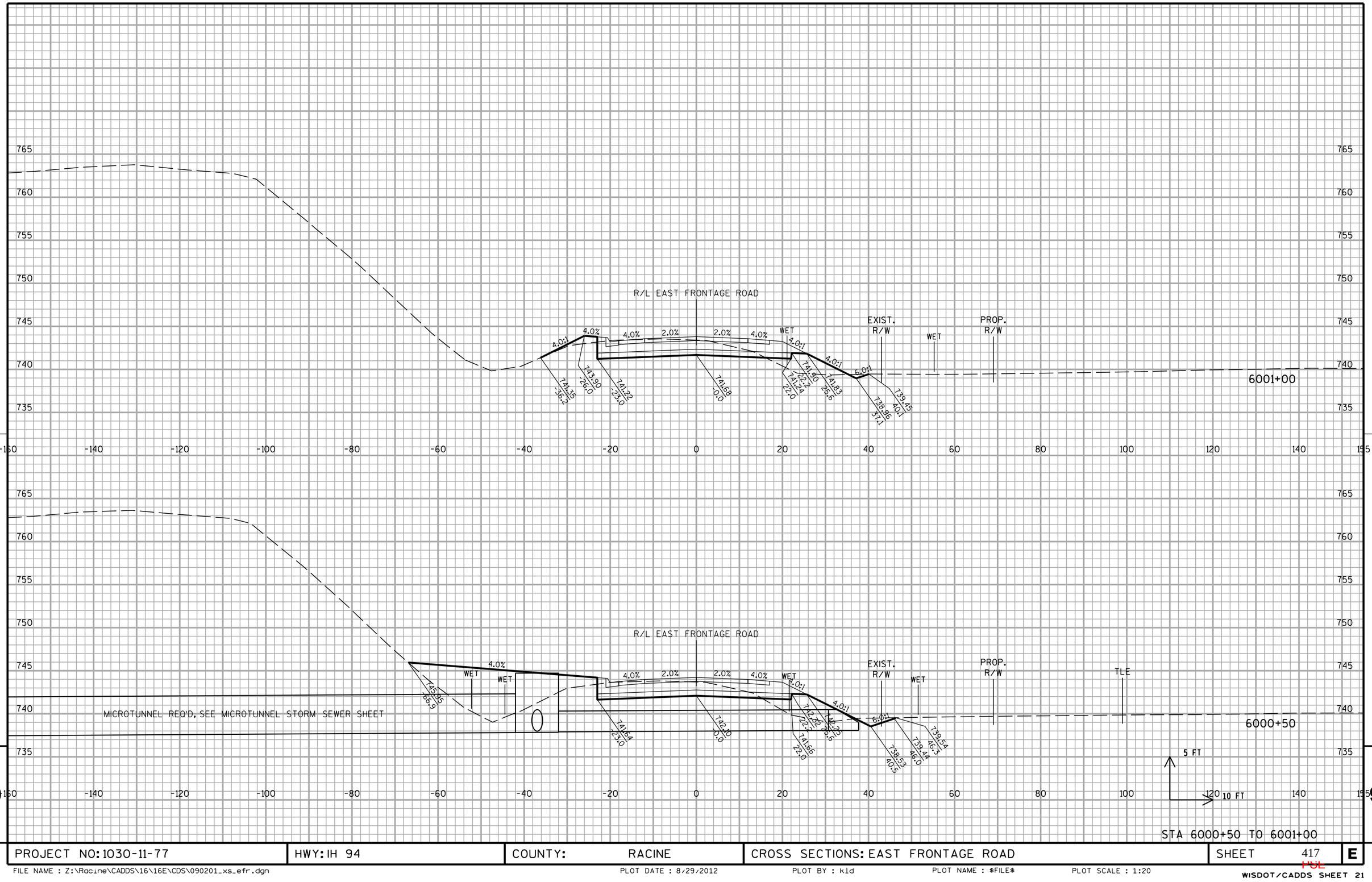
WISDOT/CADDS SHEET 21



PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 416	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : $FILE$ | PLOT SCALE : 1:20

10301177-00008RDAPERM

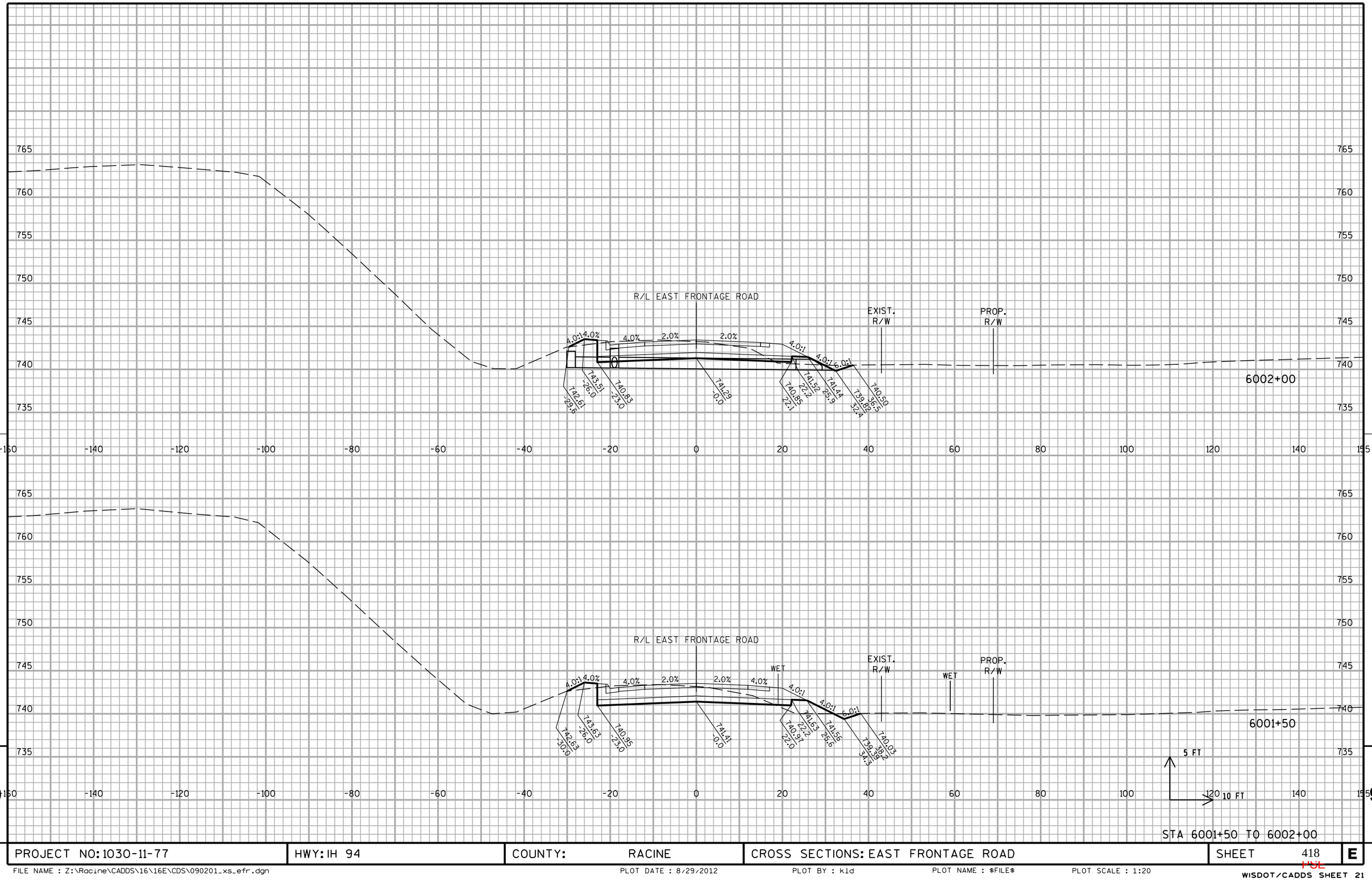


9

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 417	E

9

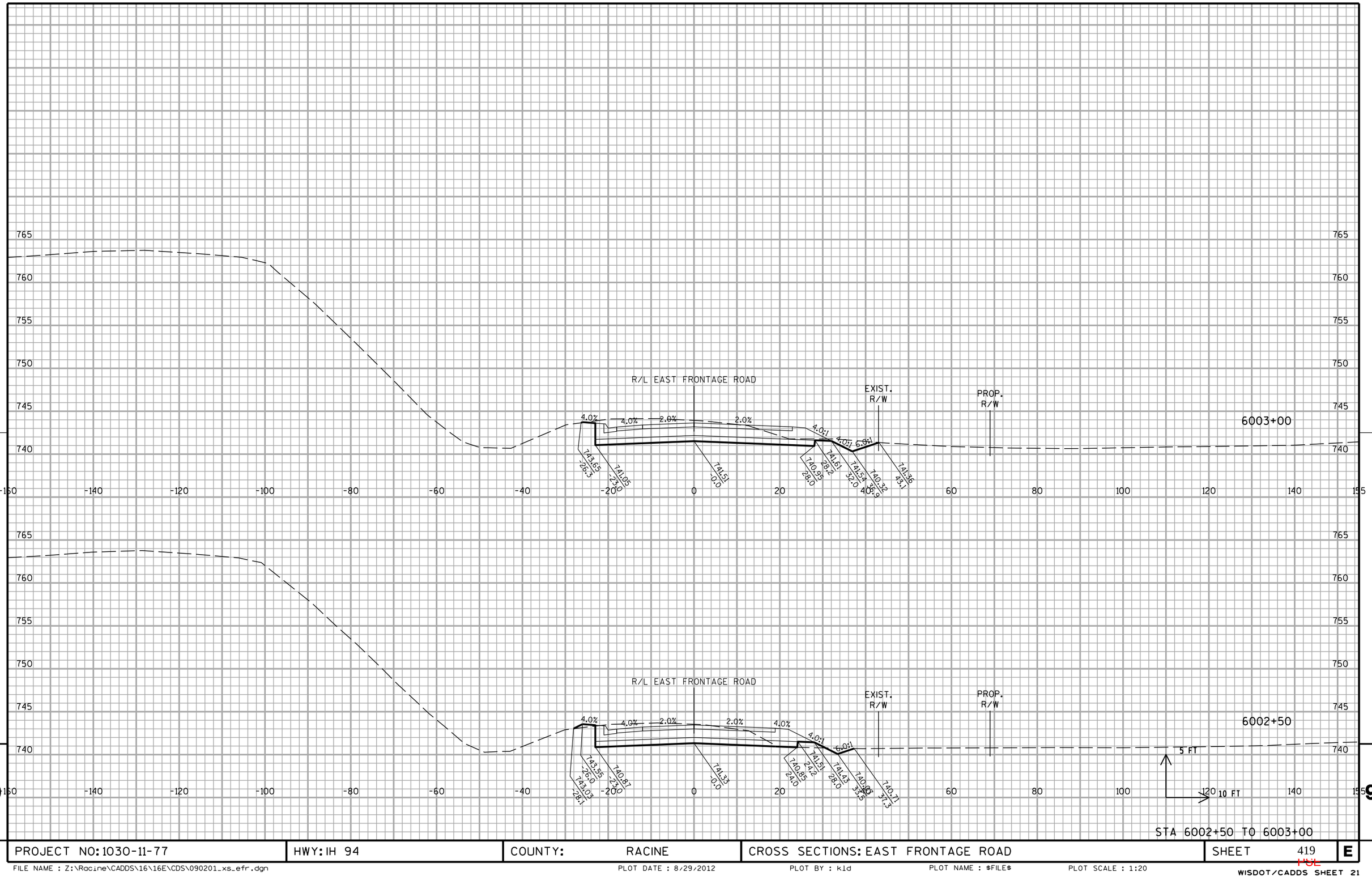
STA 6000+50 TO 6001+00



9

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 418	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:20

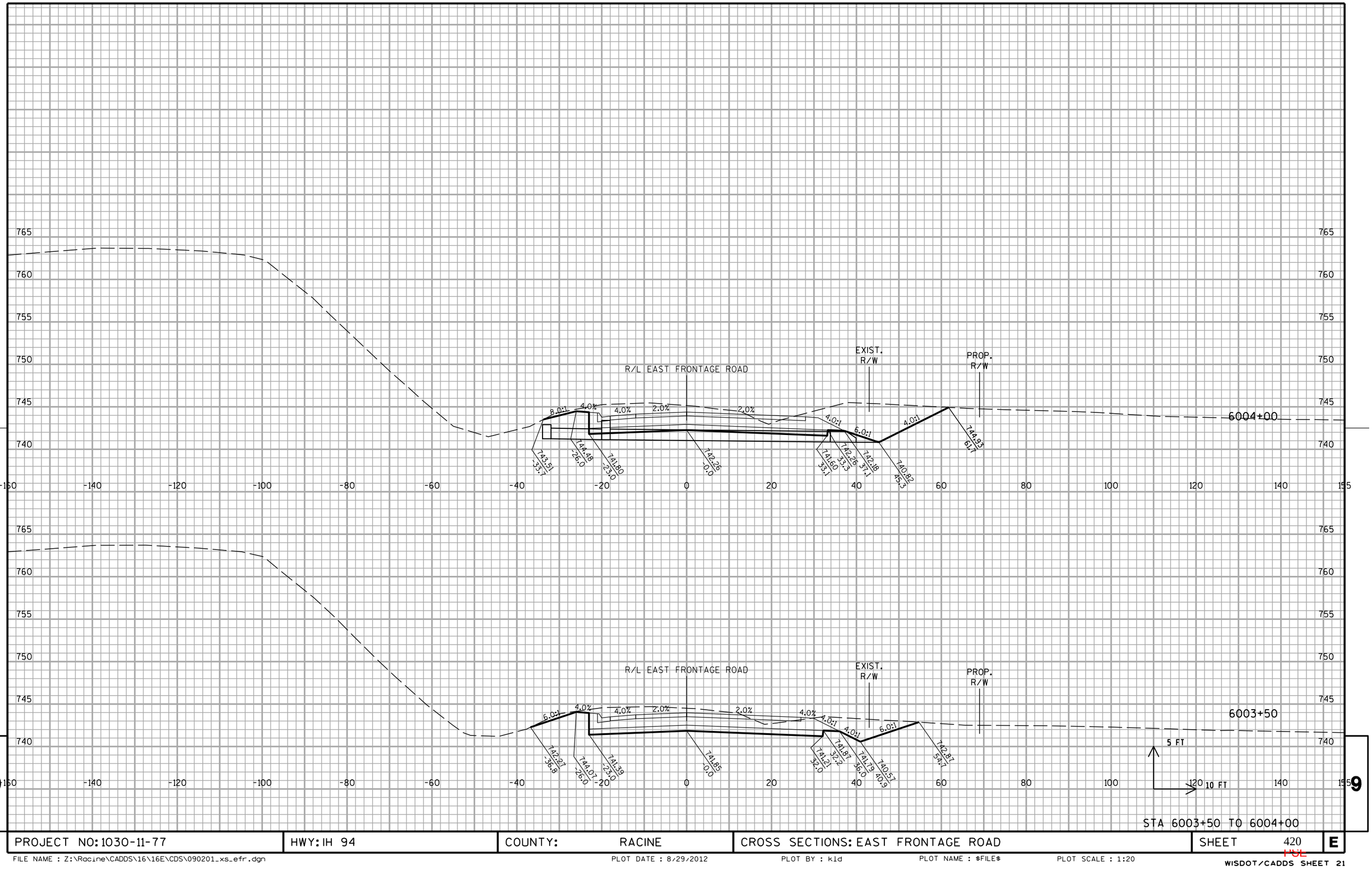


STA 6002+50 TO 6003+00

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 419	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:20

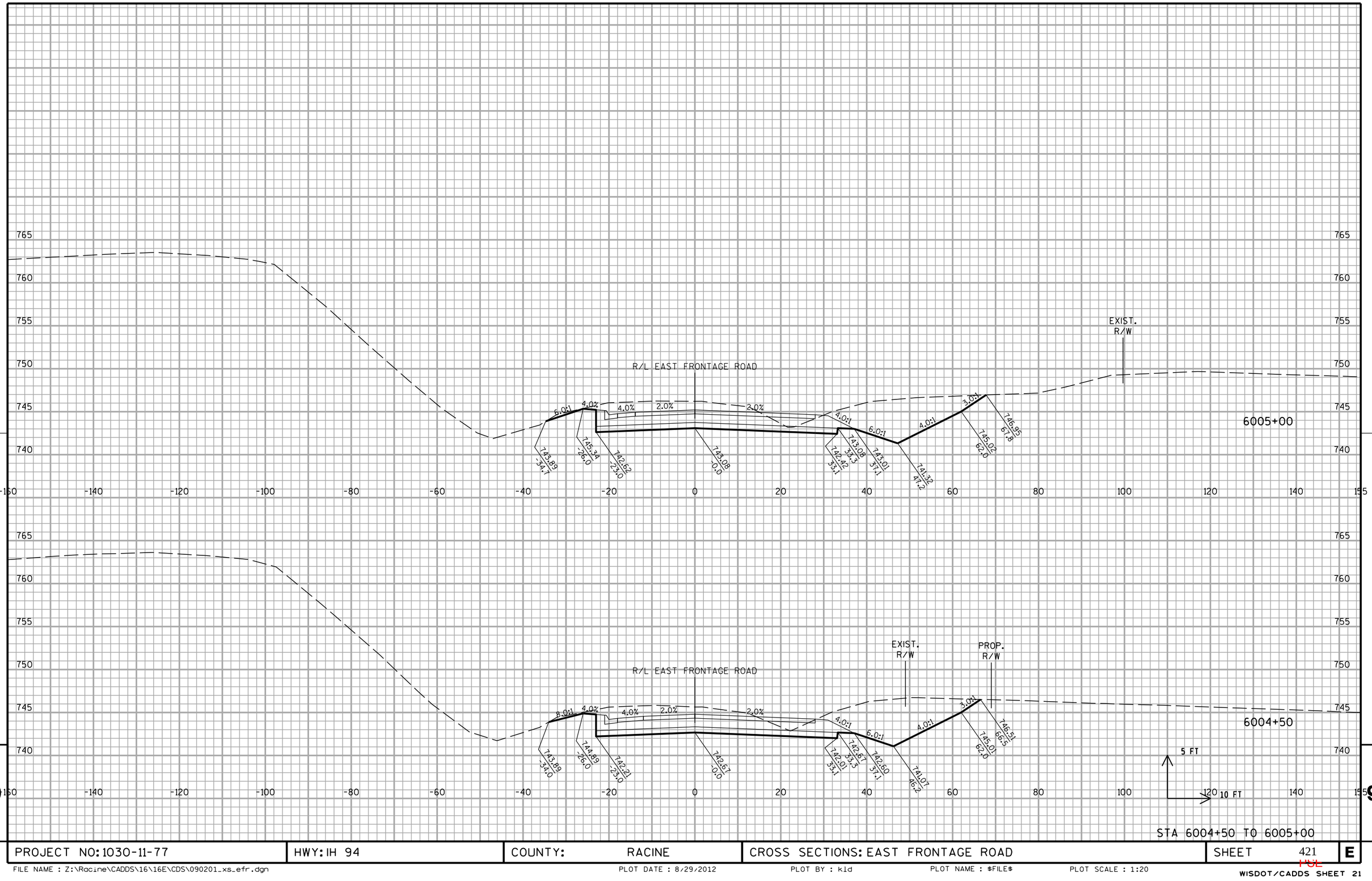
WISDOT/CADDS SHEET 21



PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 420	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 421	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:20

HUL

10301177-00008RDAPERM

R/L EAST FRONTAGE ROAD

GOLF RD

3003+00

-0.4%

0.5%

744.29
-23.5

744.38
0.0

744.25
25.6

R/L EAST FRONTAGE ROAD

6006+00

-0.4%

0.5%

743.85
-20.4

743.93
0.0

743.79
26.9

R/L EAST FRONTAGE ROAD

6005+50

EXIST.
R/W

6:0:1

4.0:1

1.6%

1.7%

742.24
-46.2

740.98
-31.9

743.12
-26.9

743.12
-23.1

743.78
-23.3

743.49
0.0

743.58
32.9

742.92
32.8

742.52
36.7

741.80
47.0

745.45
6.46

746.85
65.8

5 FT

10 FT

STA 6005+50 TO 3003+00

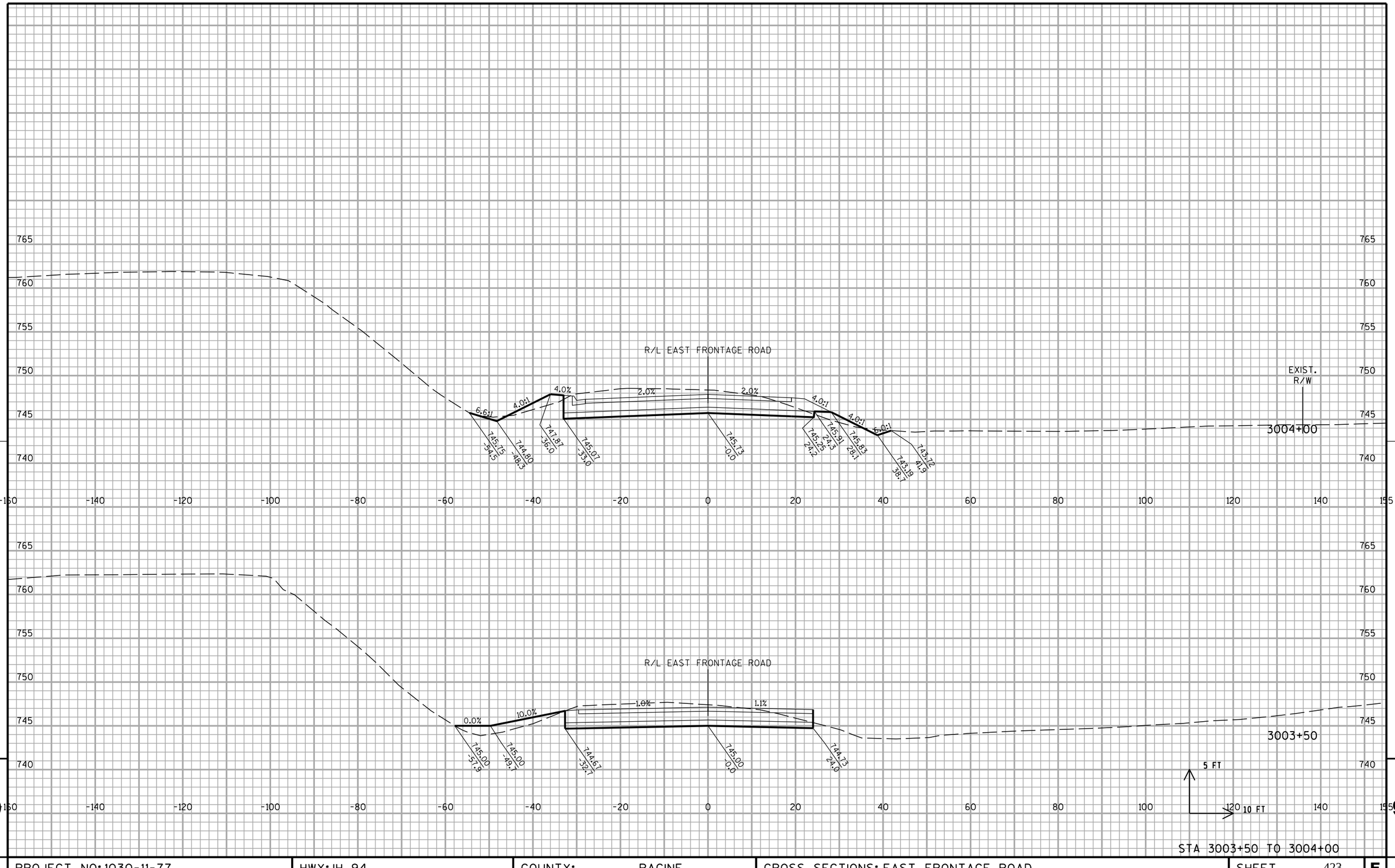
9

9

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 422	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:20

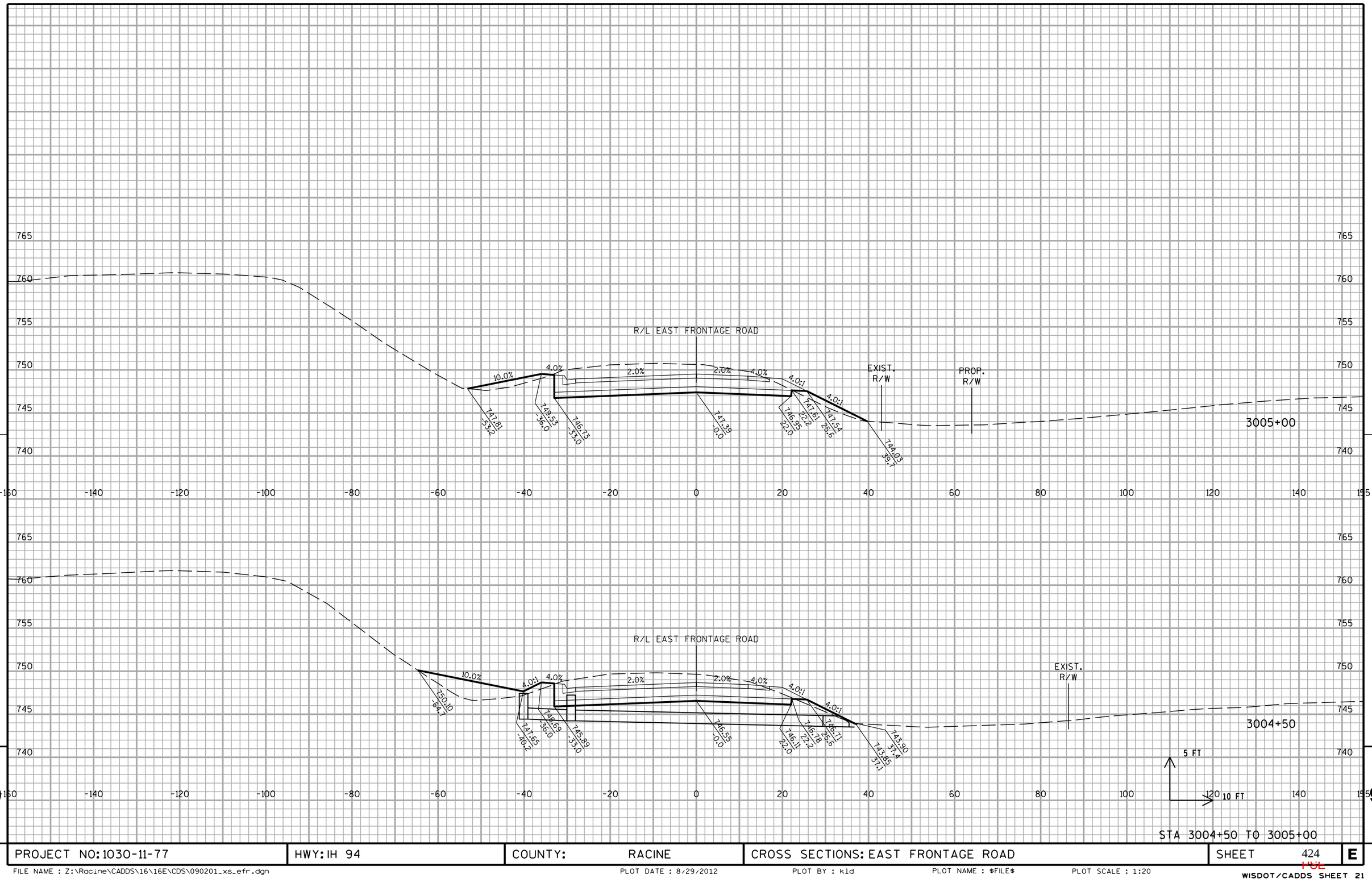
WISDOT/CADDS SHEET 21



PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 423	E

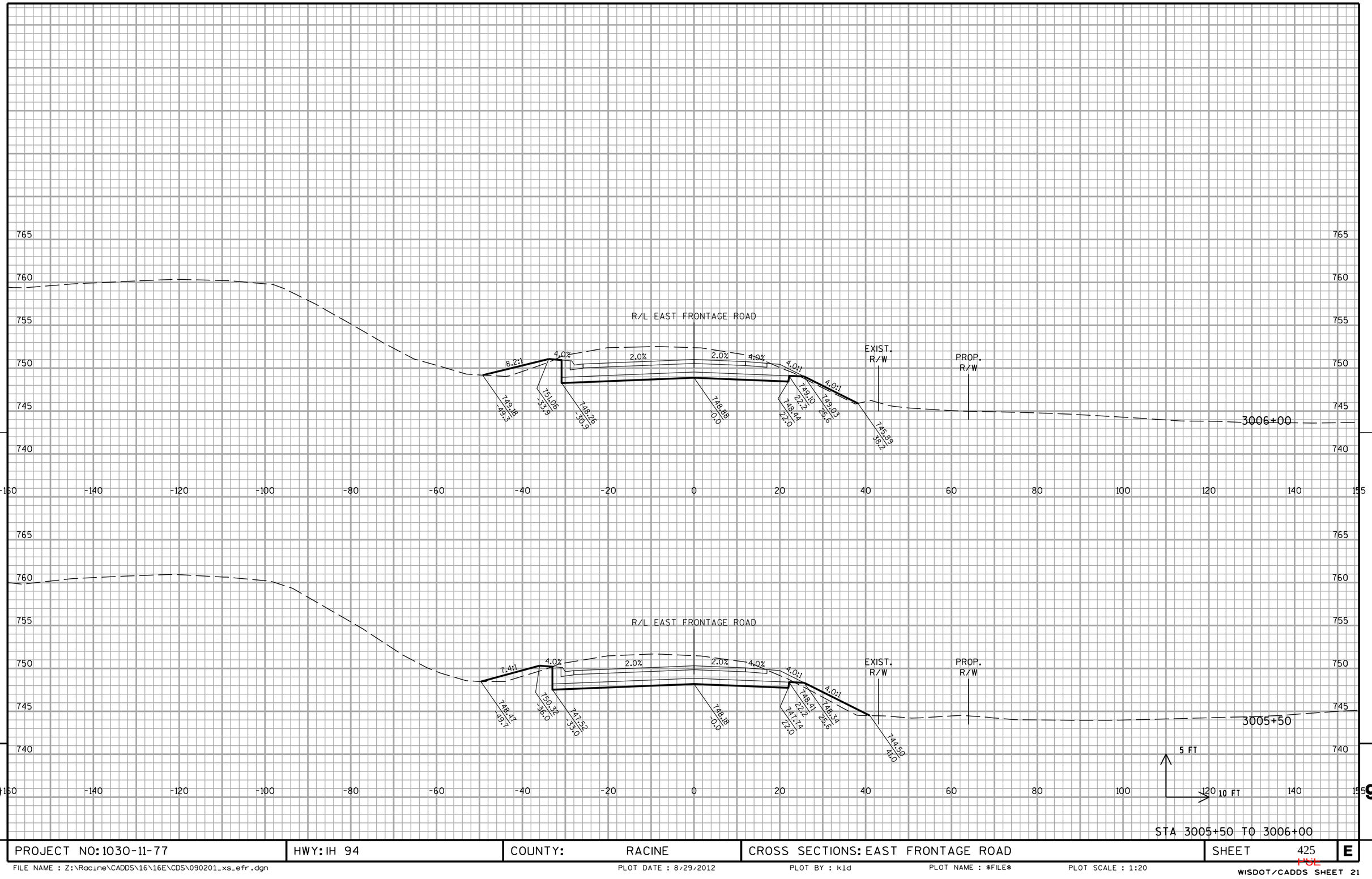
FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 424	E

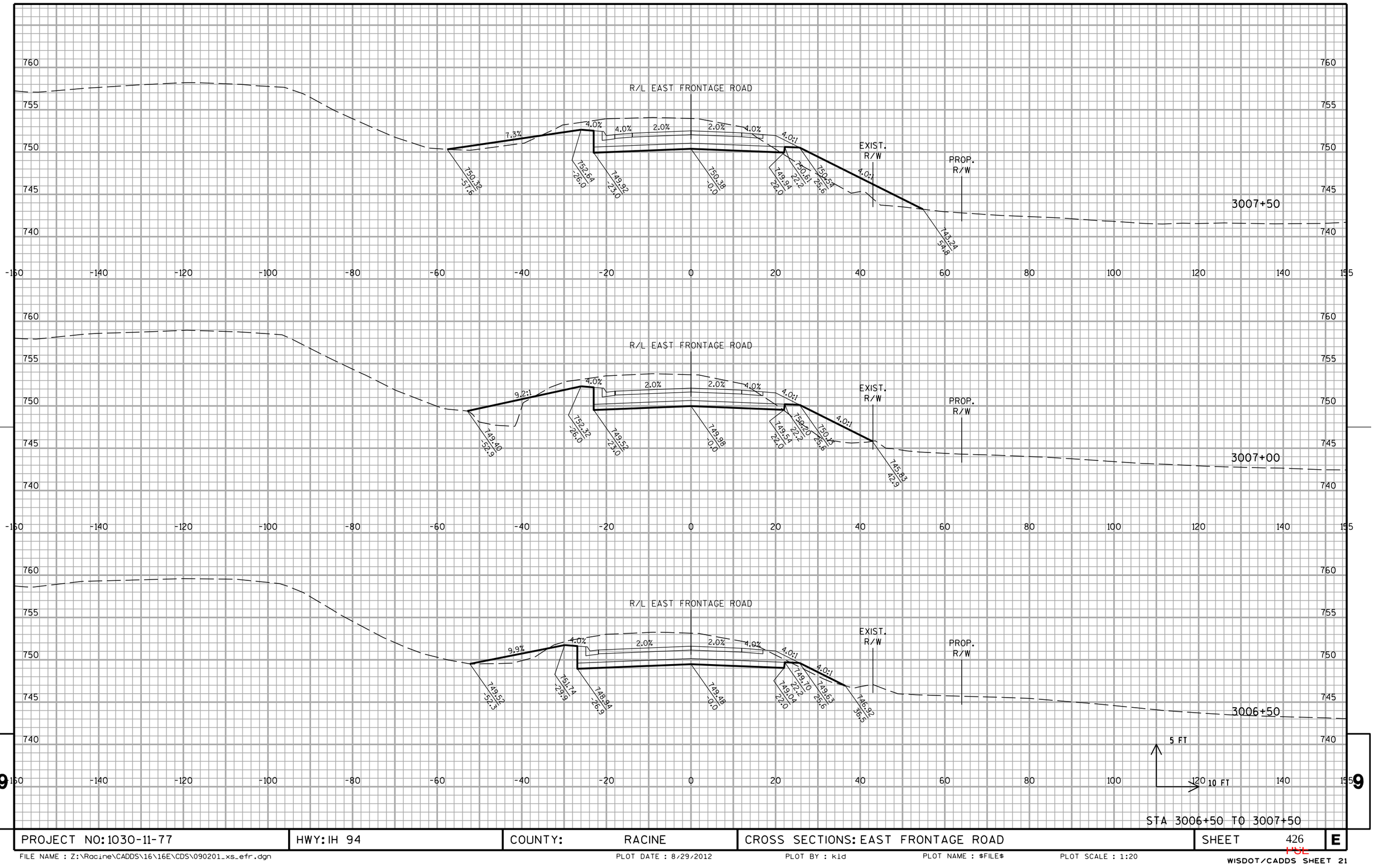
FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : $FILE$ | PLOT SCALE : 1:20



PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 425	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

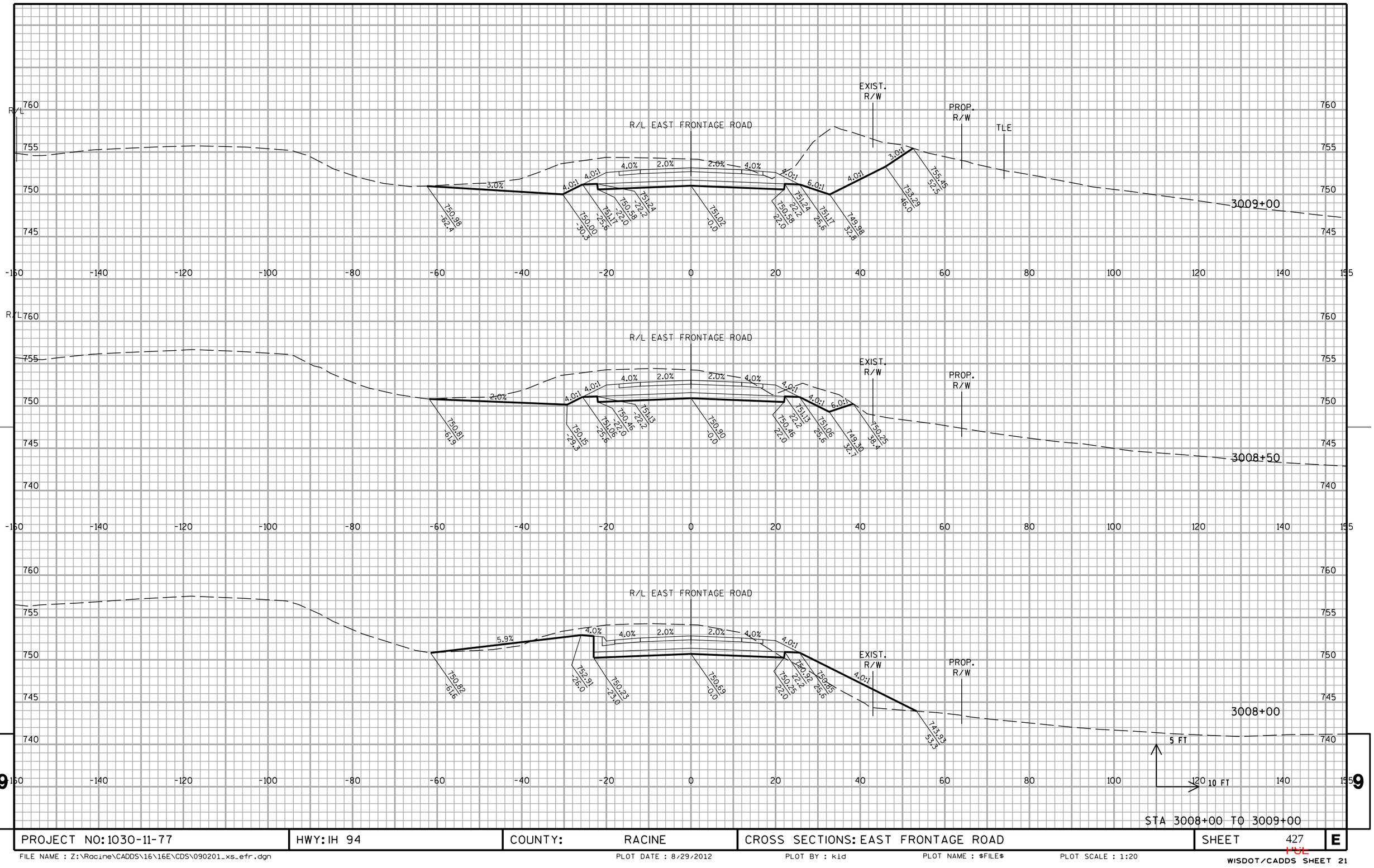


STA 3006+50 TO 3007+50

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 426	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : $FILE$ | PLOT SCALE : 1:20

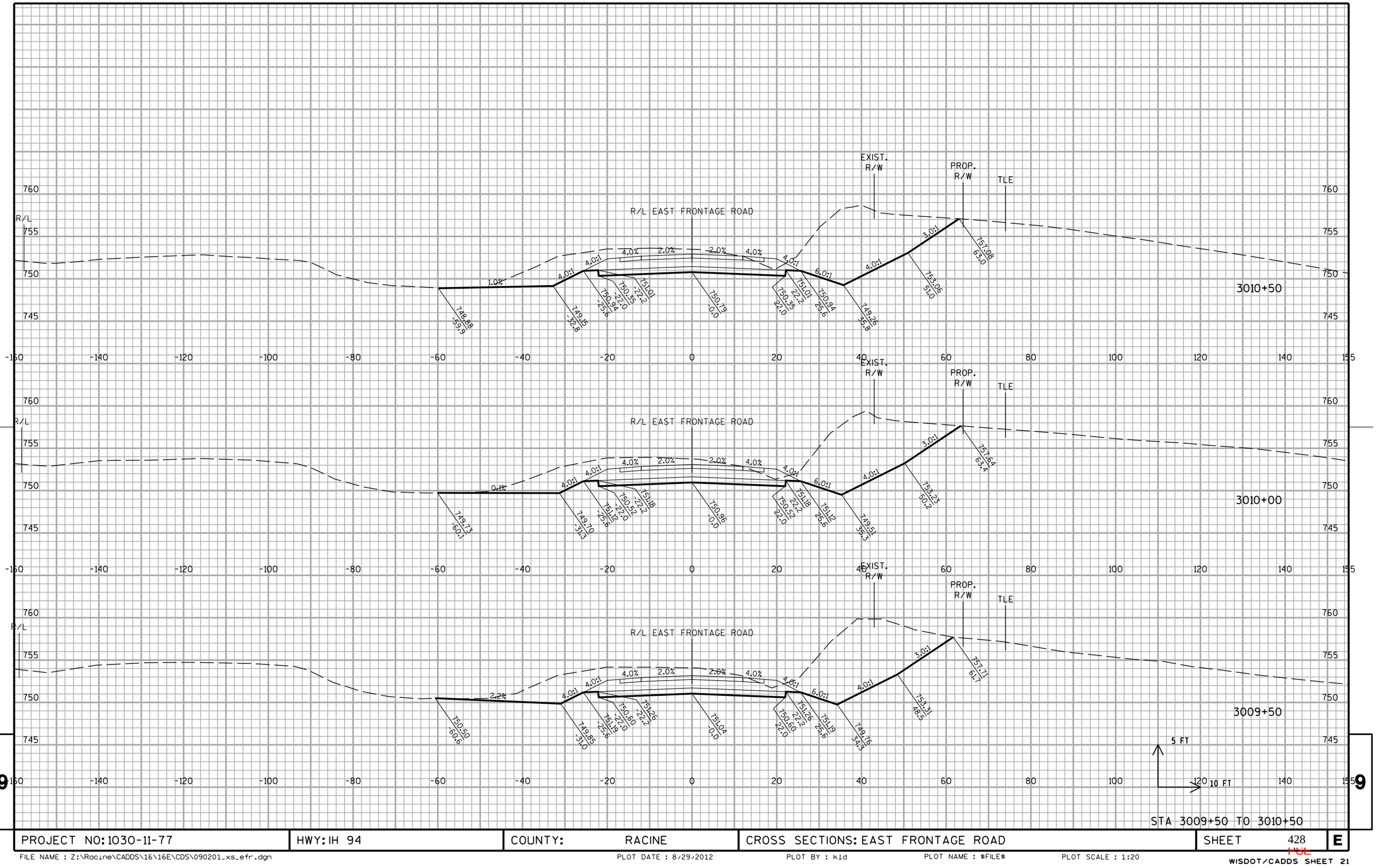
WISDOT/CADDS SHEET 21



PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 427	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : $FILE$ | PLOT SCALE : 1:20

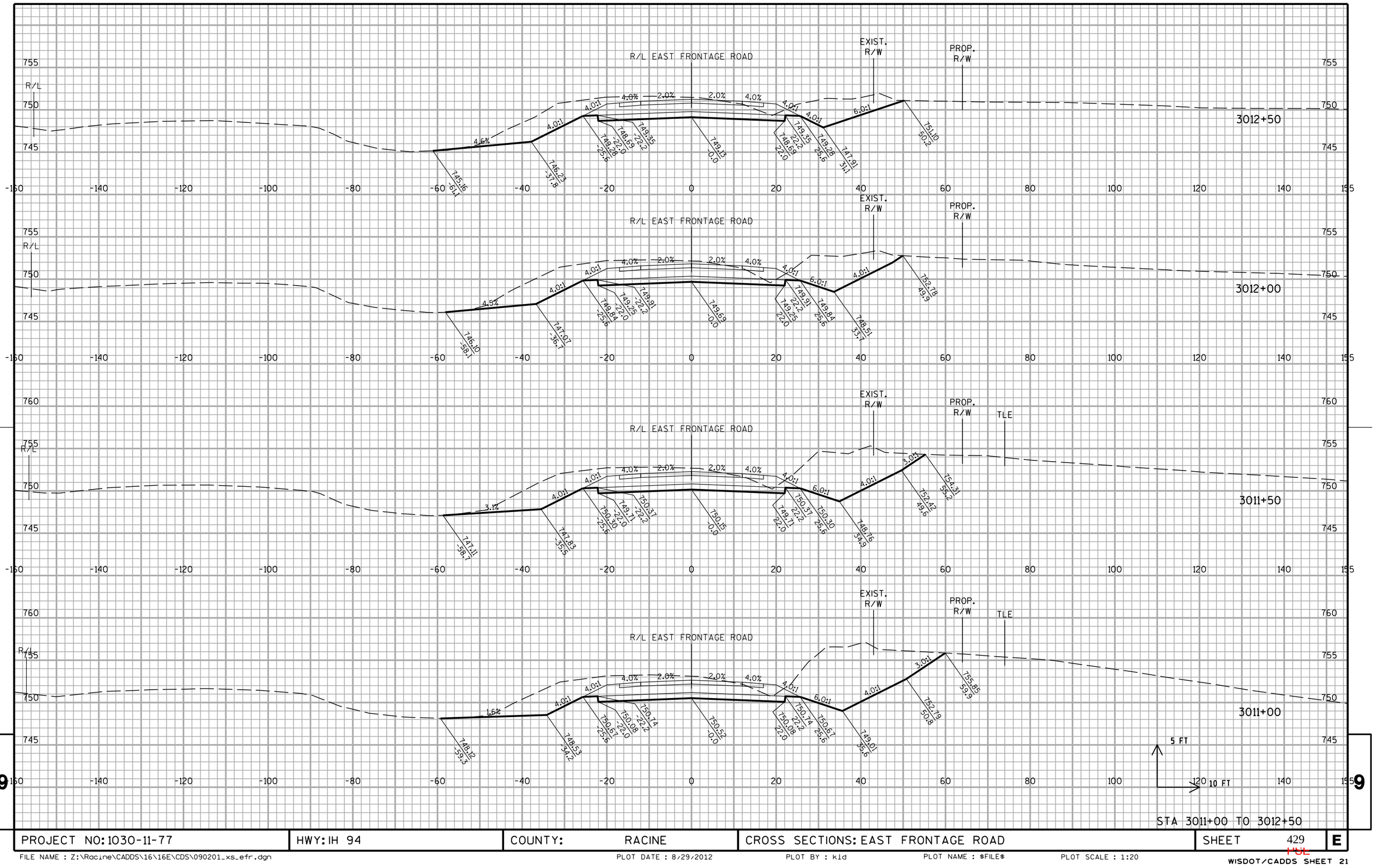
WISDOT/CADDS SHEET 21



PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 428	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

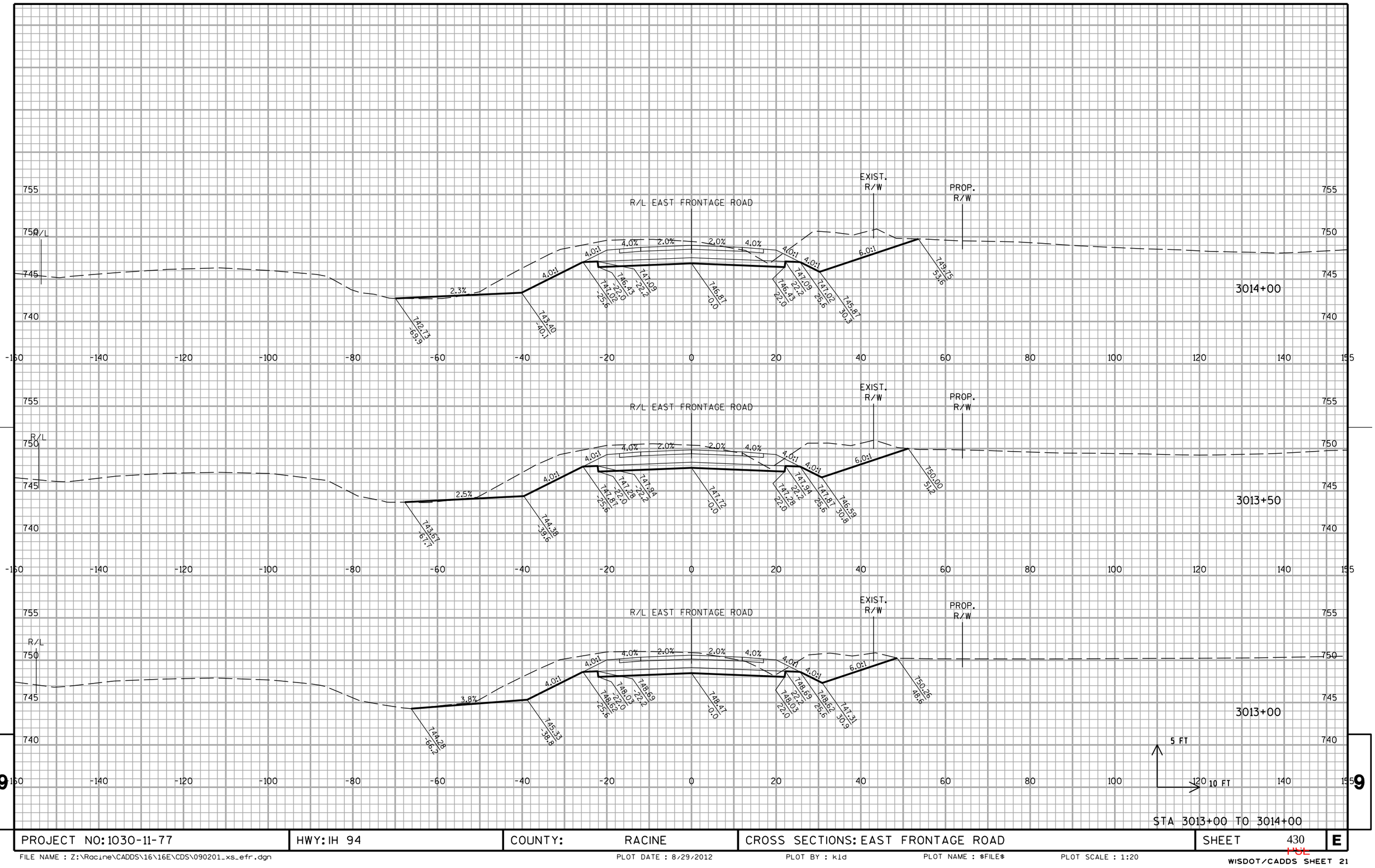


PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 429	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

10301177-00008RDAPERM

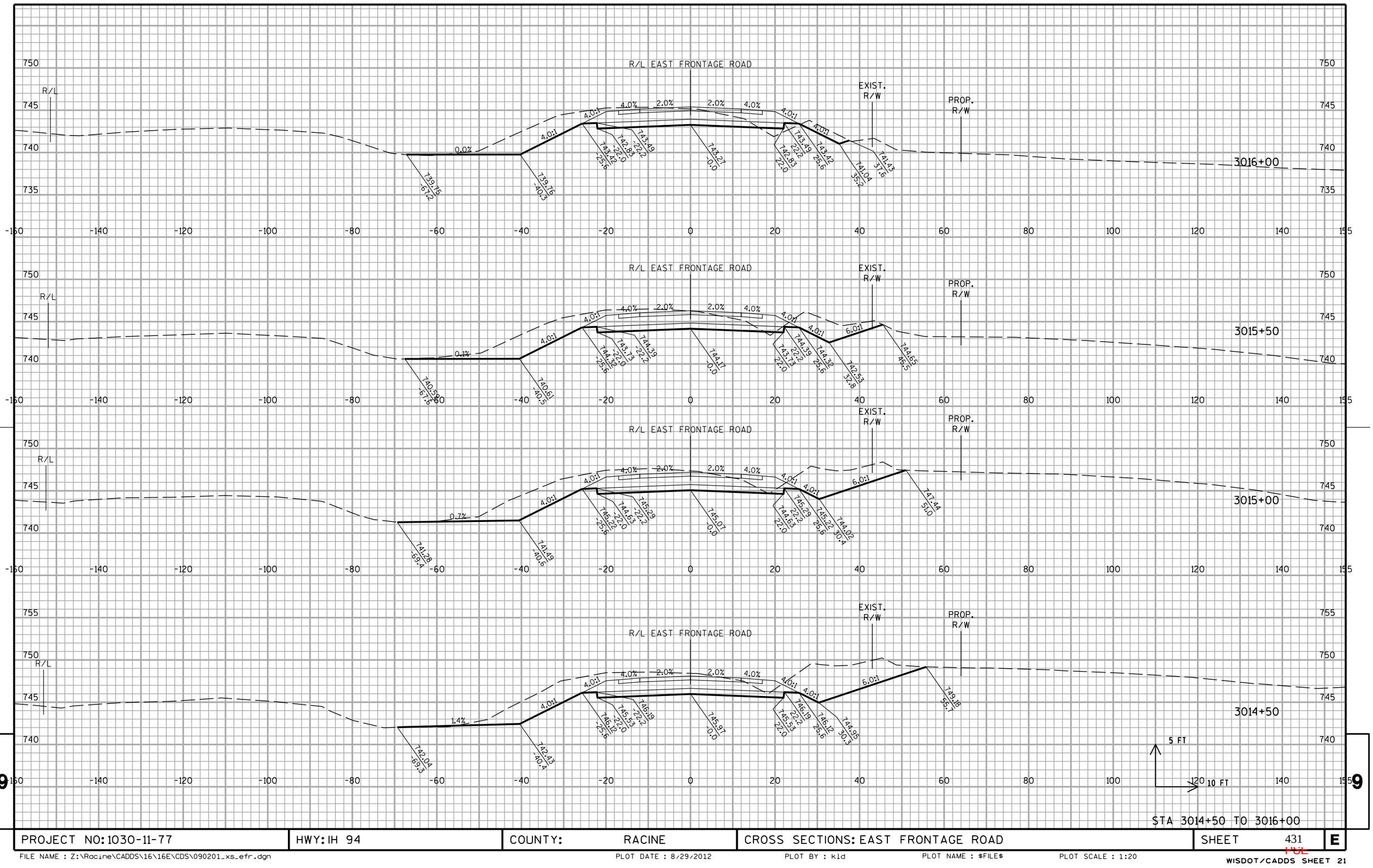


PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 430	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

10301177-00008RDAPERM



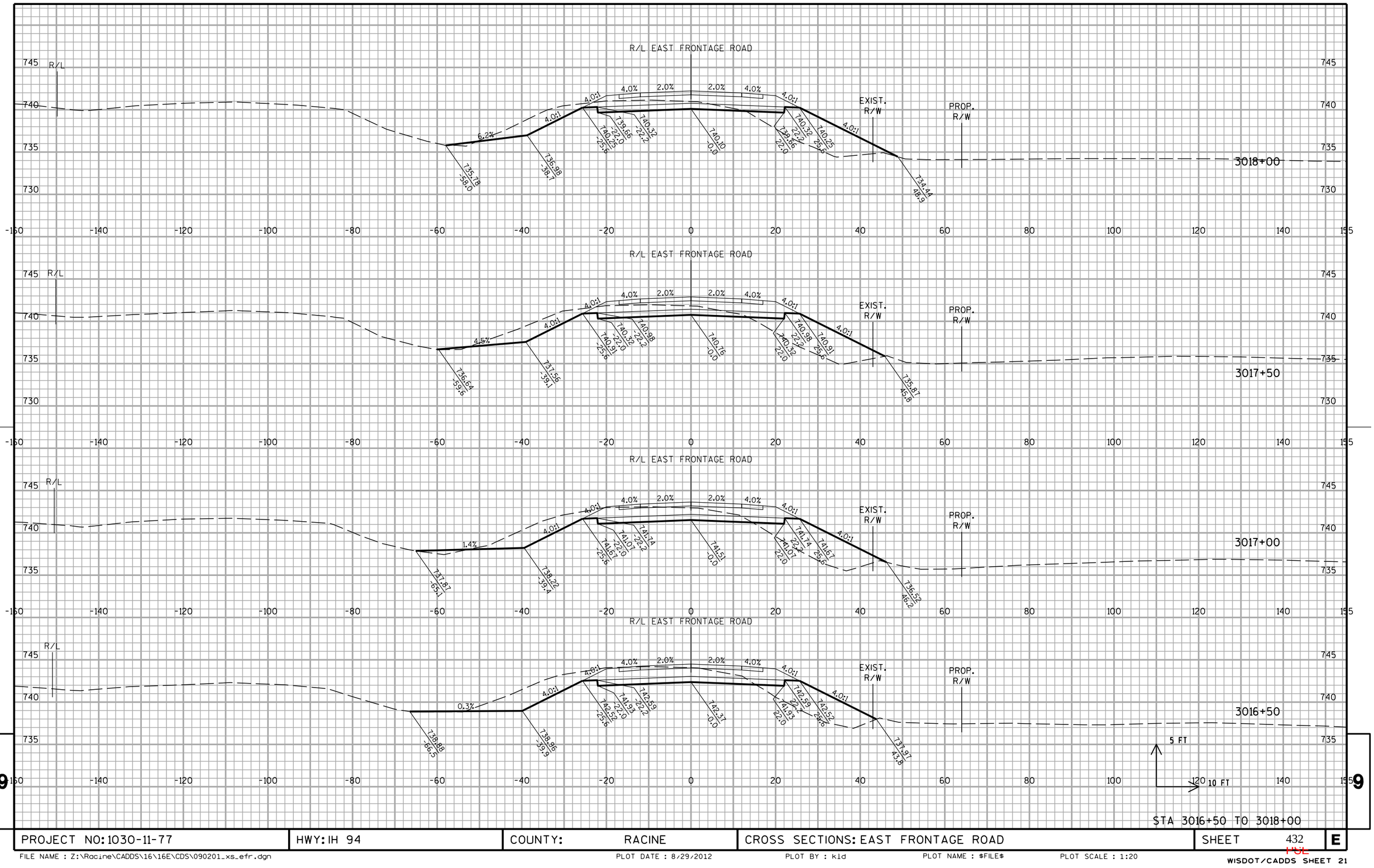
STA 3014+50 TO 3016+00

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 431	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

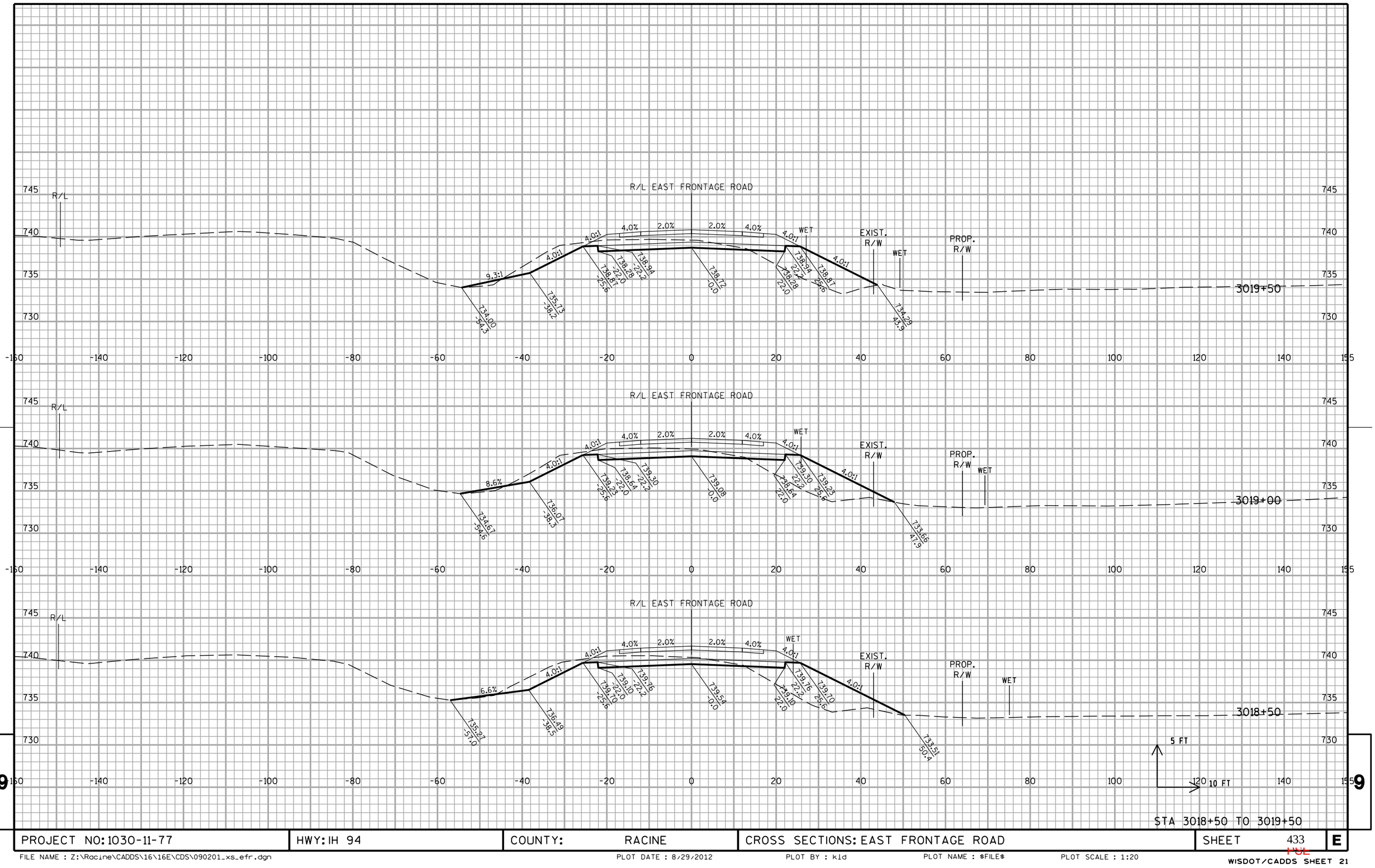
10301177-00008RDAPERM



PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 432	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

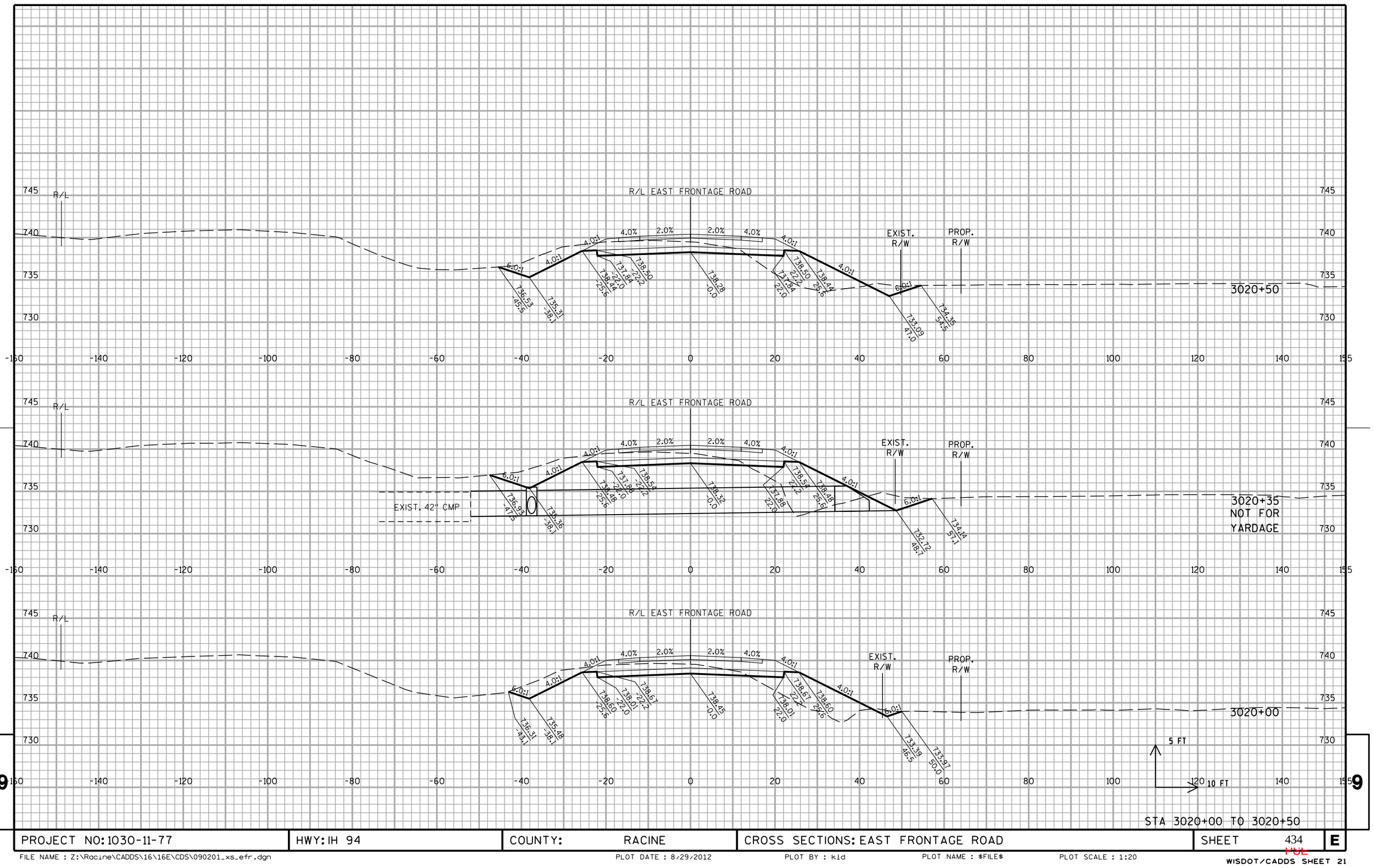


STA 3018+50 TO 3019+50

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 433	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



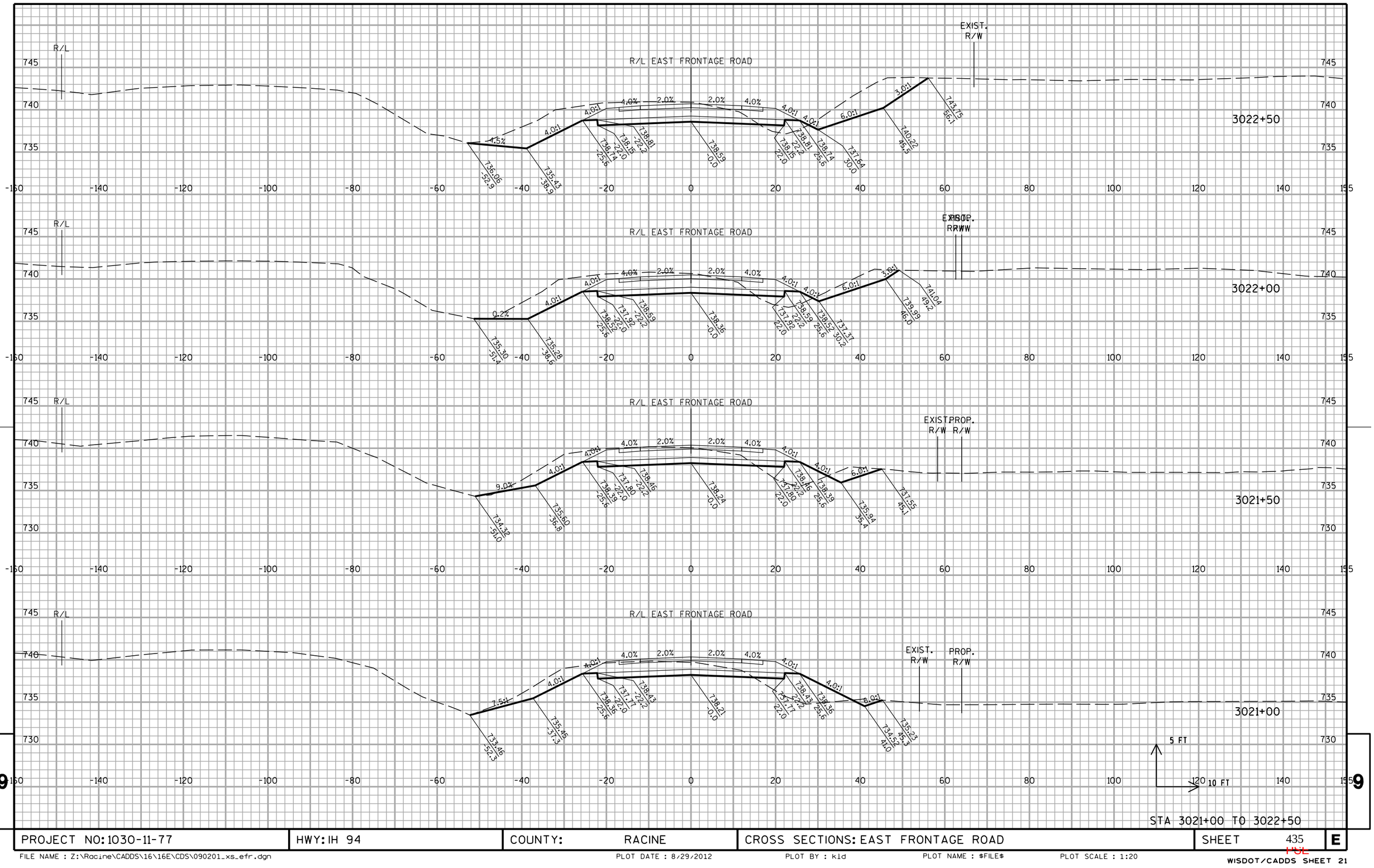
STA 3020+00 TO 3020+50

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 434	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : $FILE$ | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

9 9



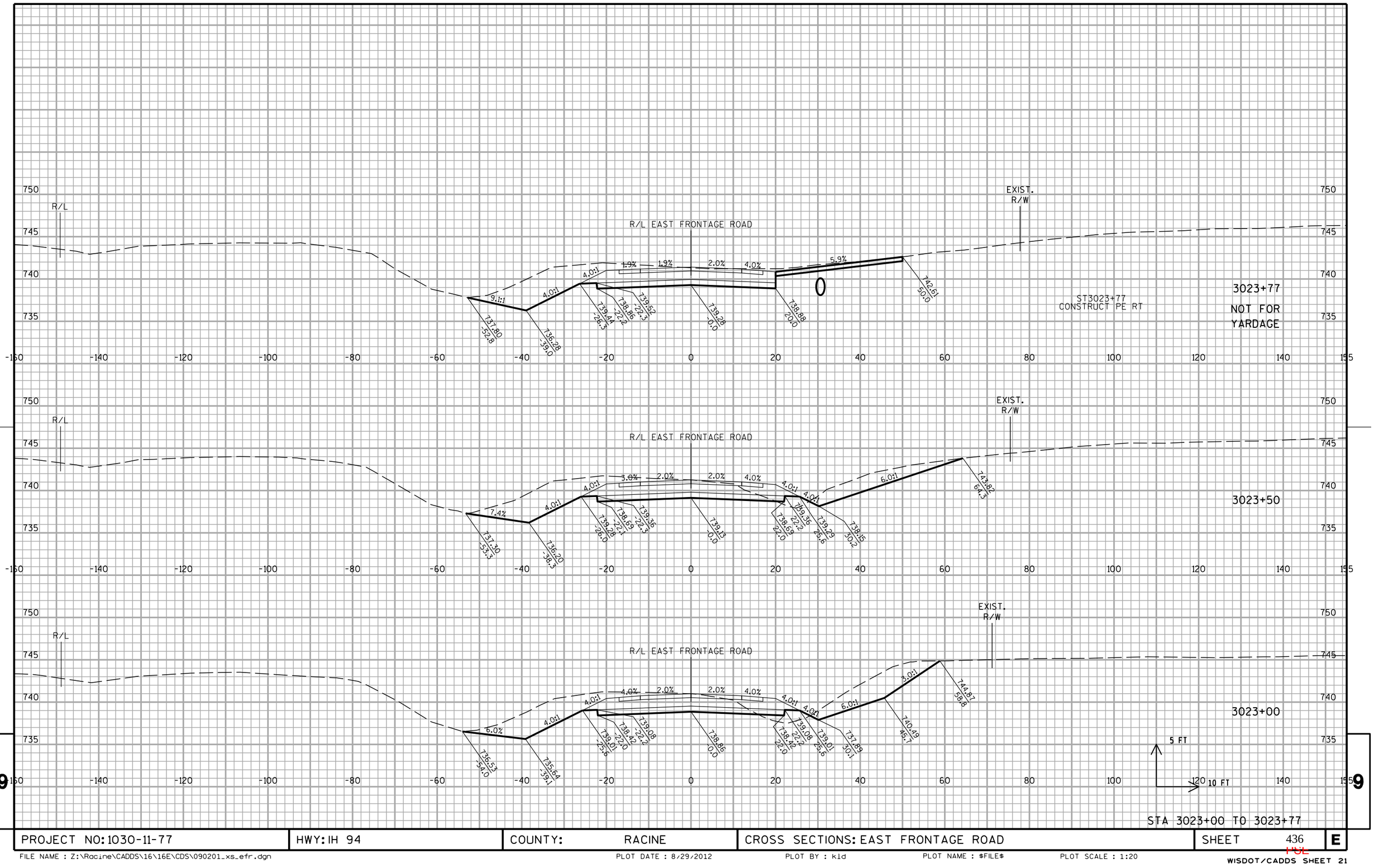
STA 3021+00 TO 3022+50

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 435	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : $FILE$ | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

10301177-00008RDAPERM

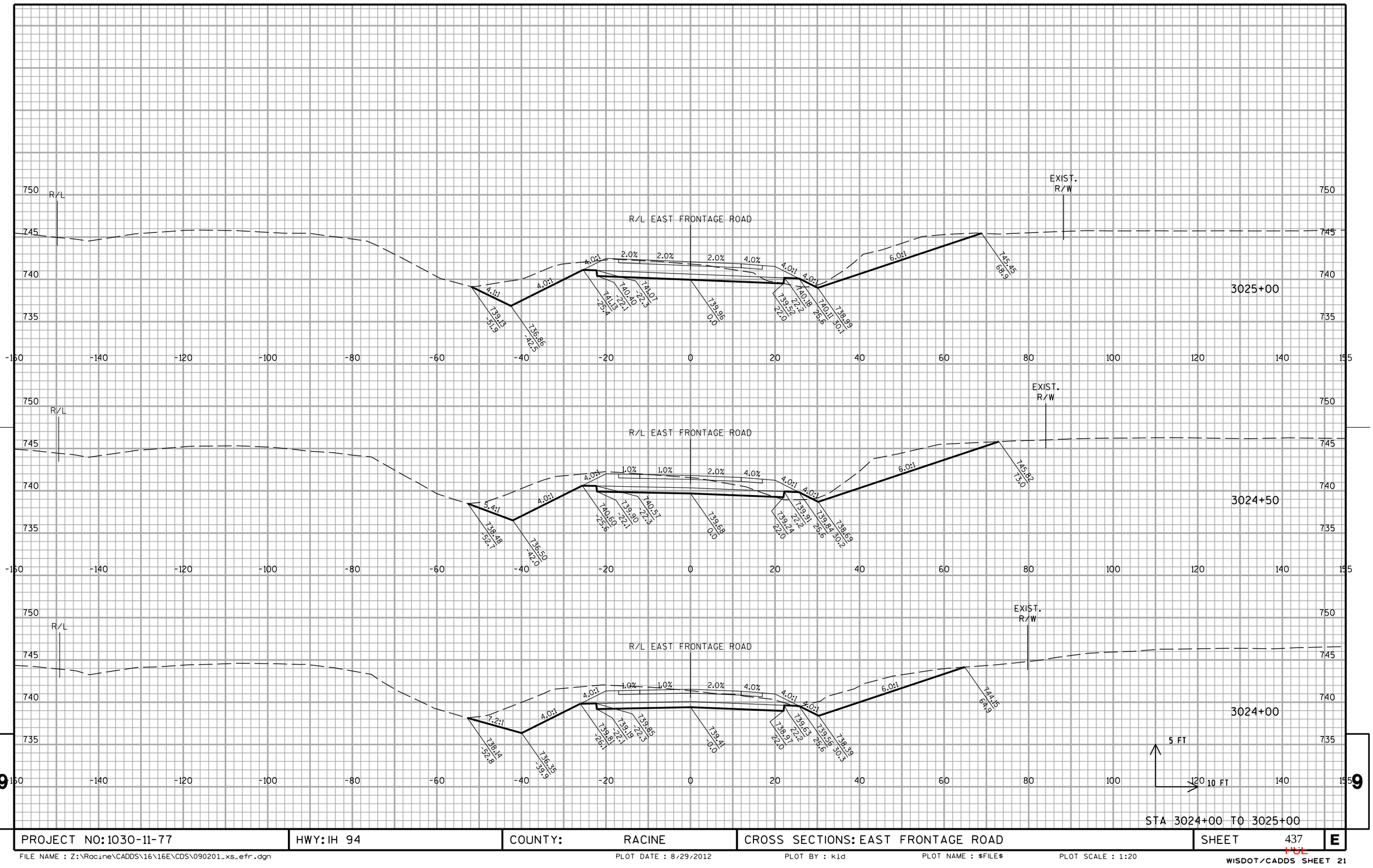


PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 436	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

10301177-00008RDAPERM



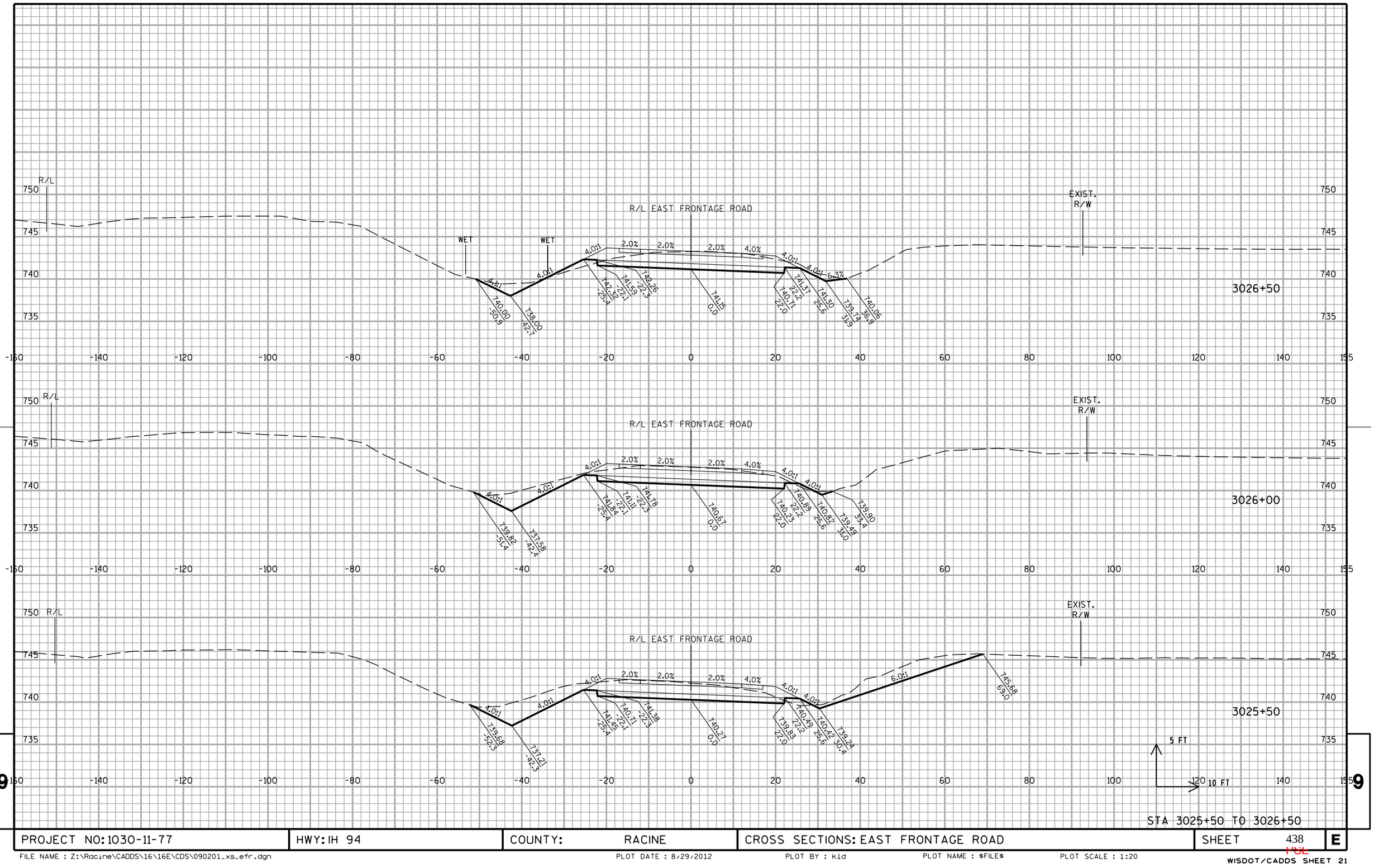
STA 3024+00 TO 3025+00

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 437	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : $FILE$ | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

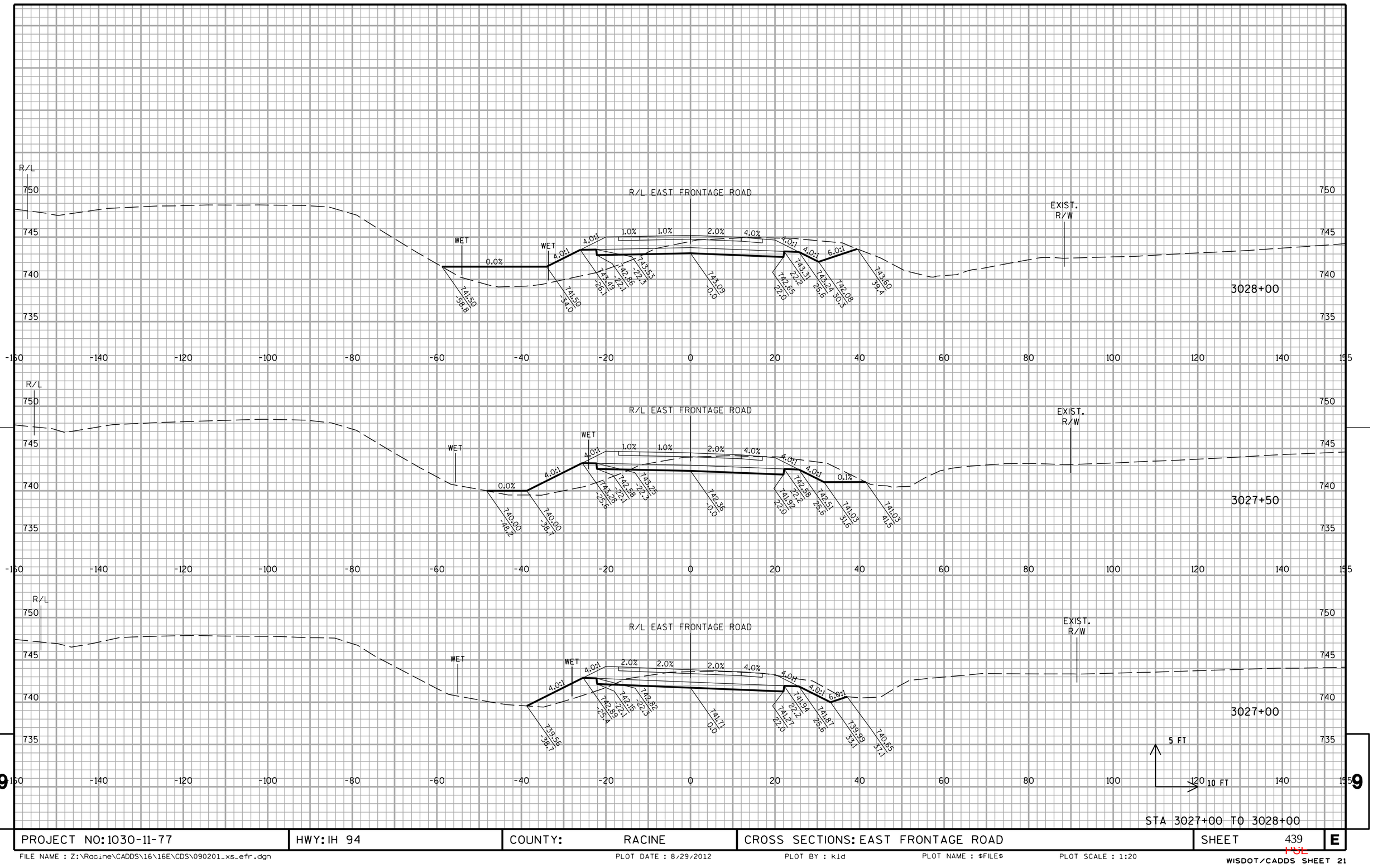
10301177-00008RDAPERM



PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 438	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

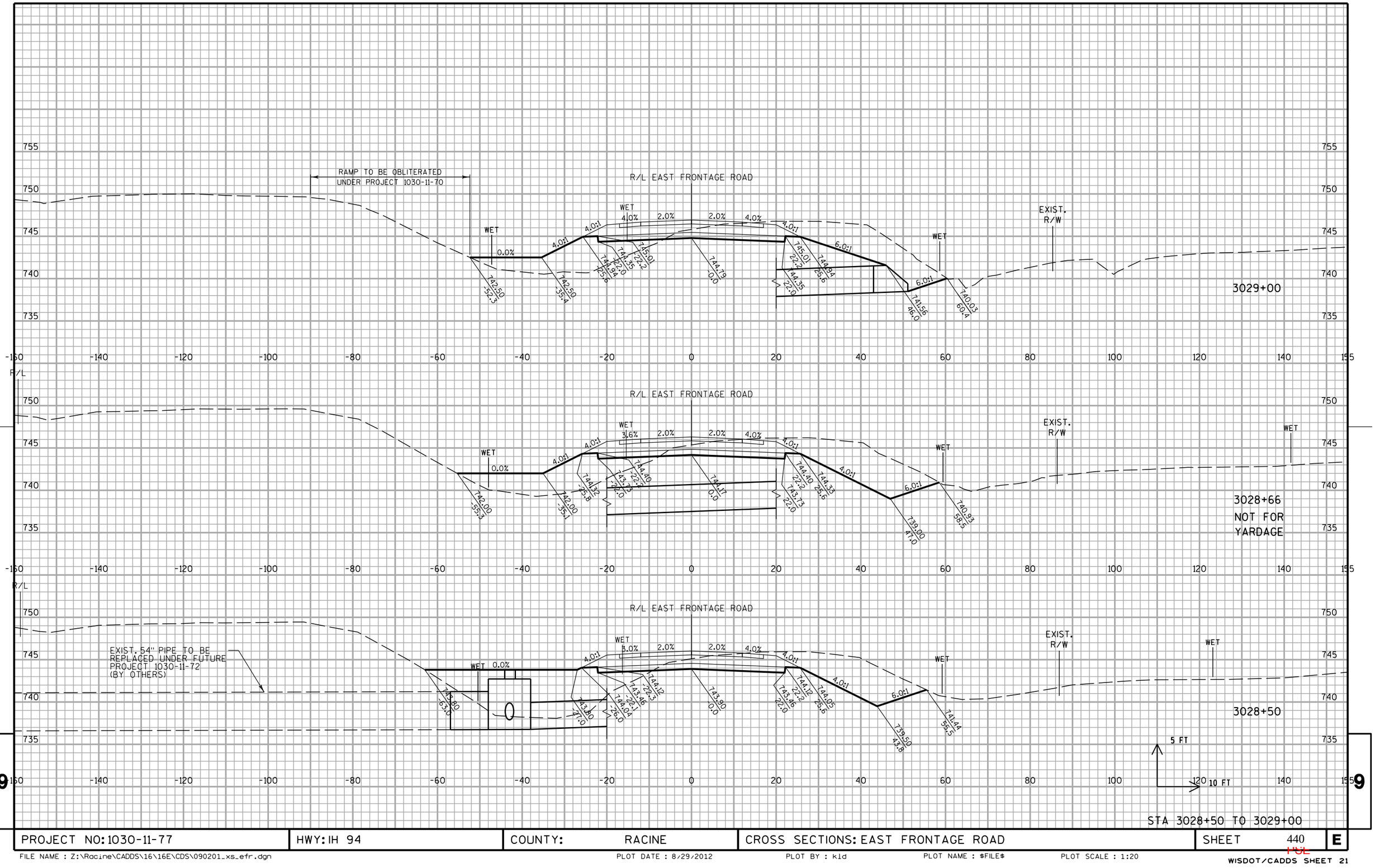


STA 3027+00 TO 3028+00

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 439	E

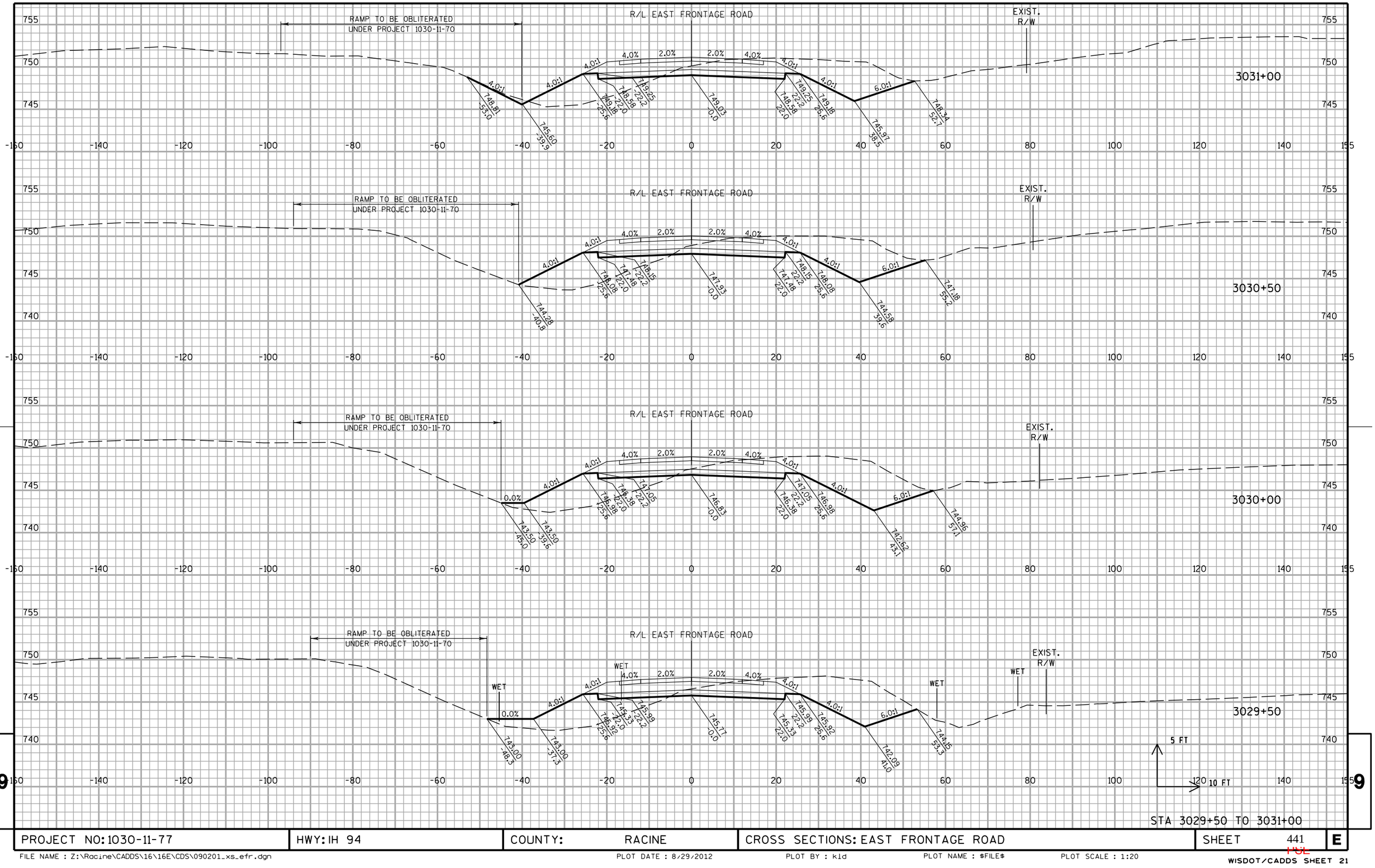
FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : $FILE$ | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 440	E

10301177-00008RDAPERM



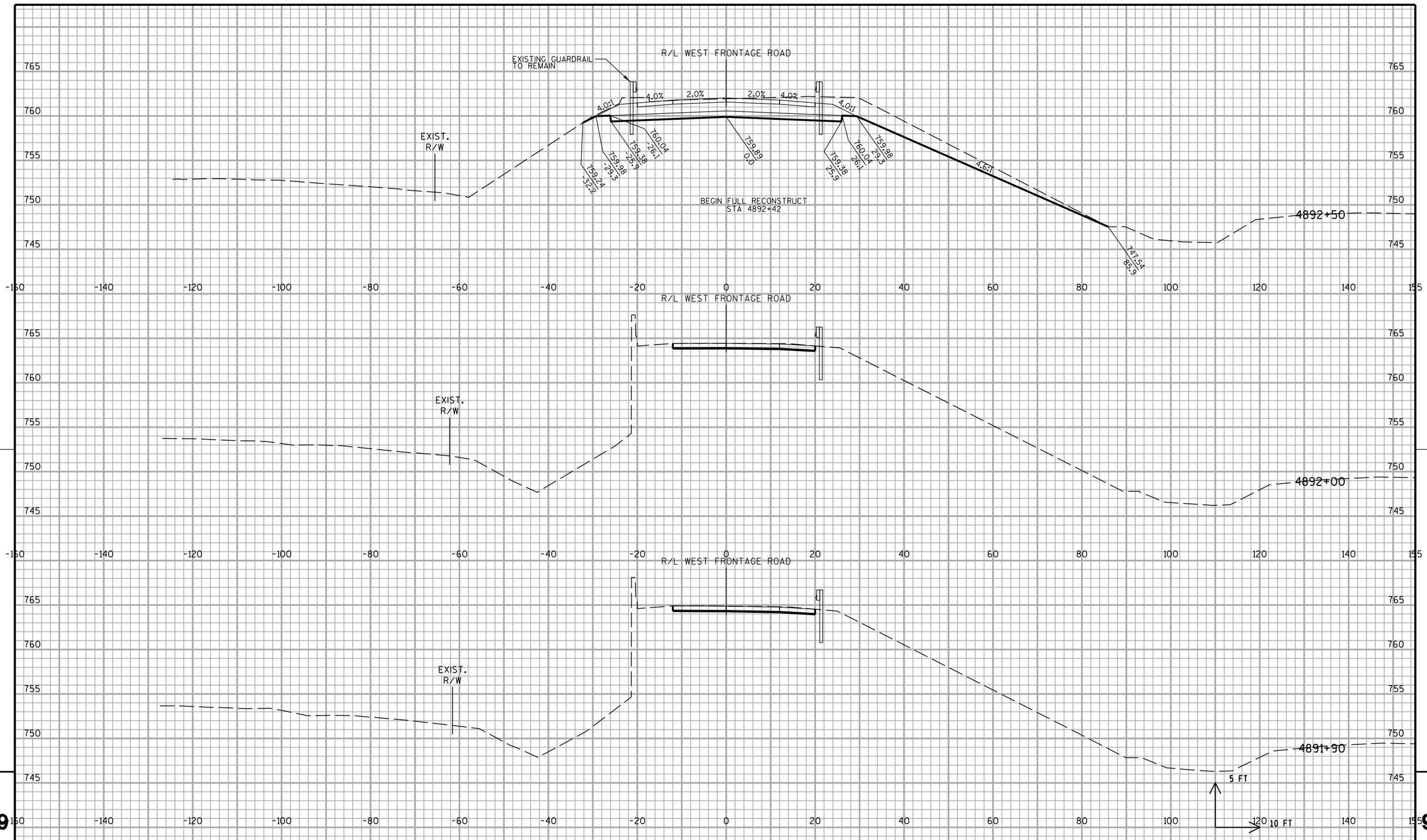
STA 3029+50 TO 3031+00

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 441	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090201_xs_efr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

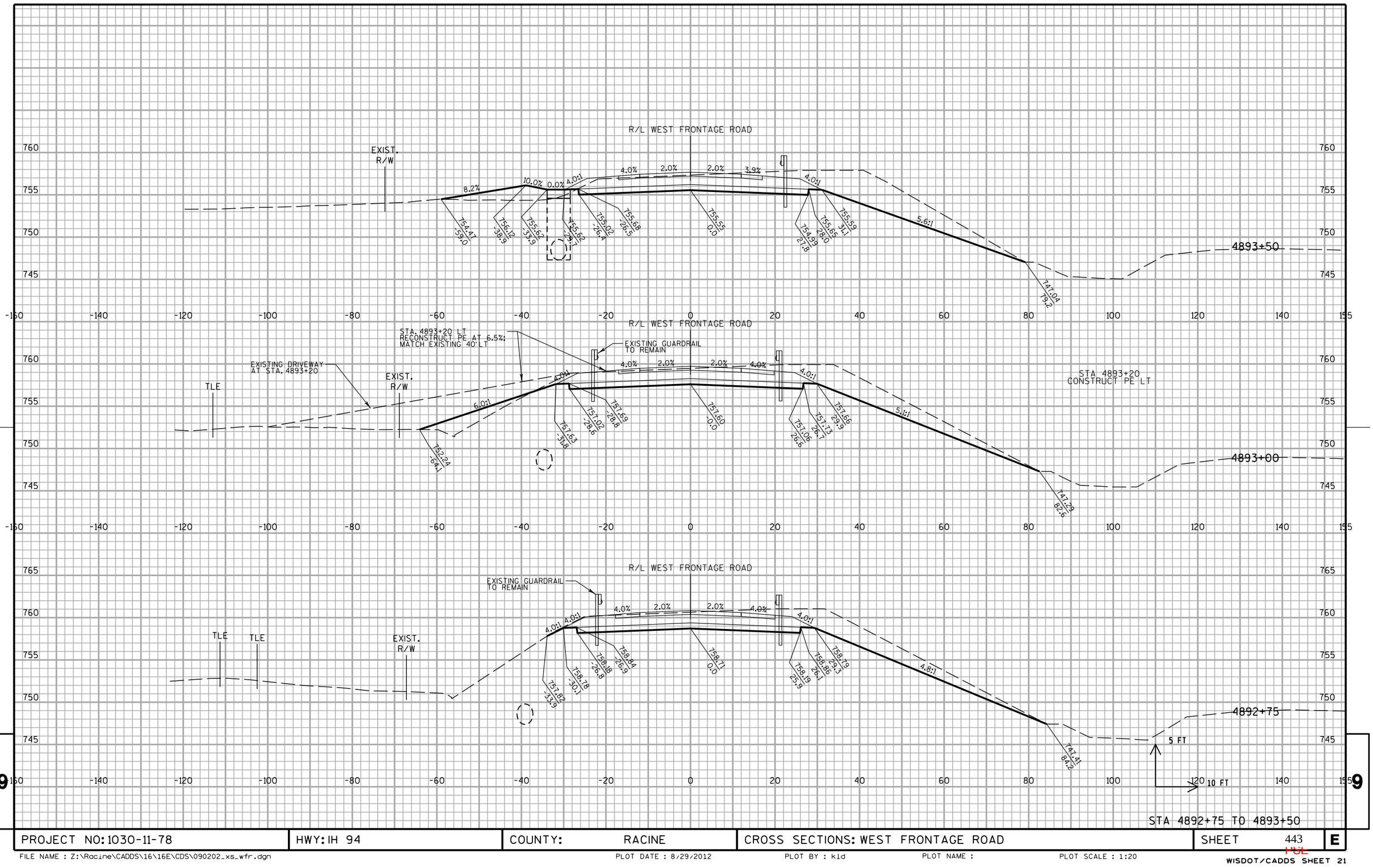
10301177-00008RDAPERM



STA 4891+90 TO 4892+50

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 442	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:20

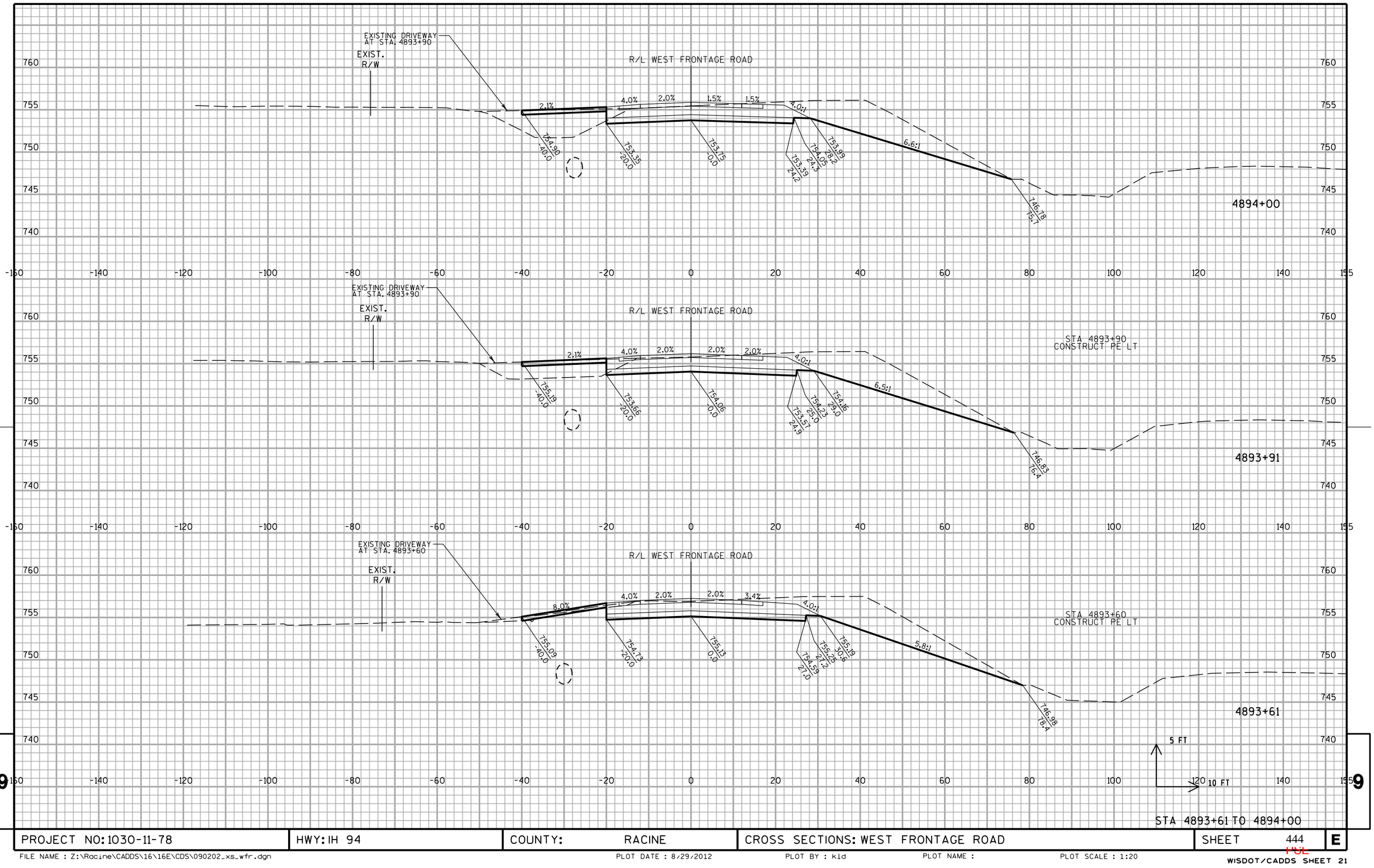


STA 4892+75 TO 4893+50

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 443	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : | PLOT SCALE : 1:20

10301177-00008RDAPERM

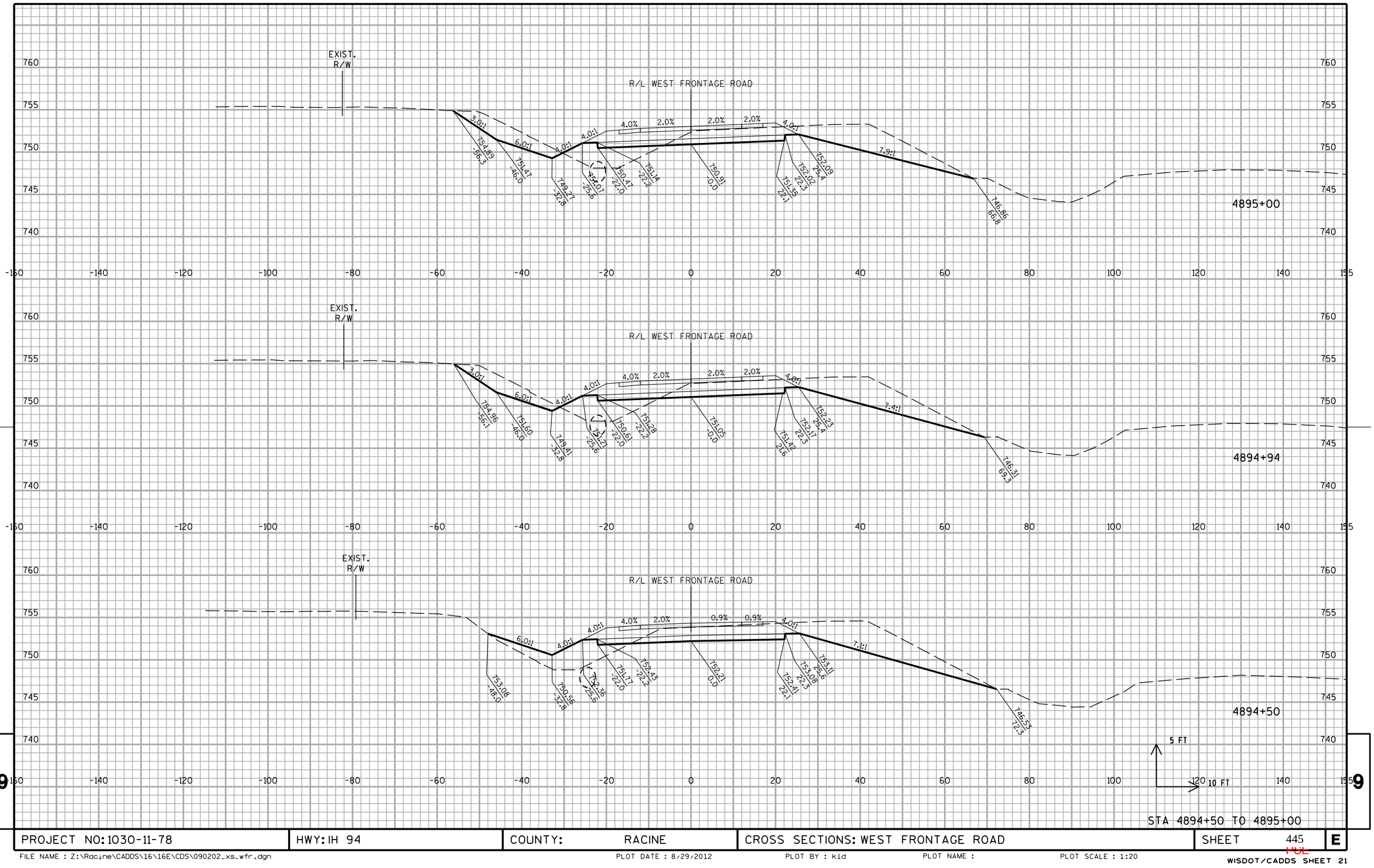


STA 4893+61 TO 4894+00

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 444	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : | PLOT SCALE : 1:20

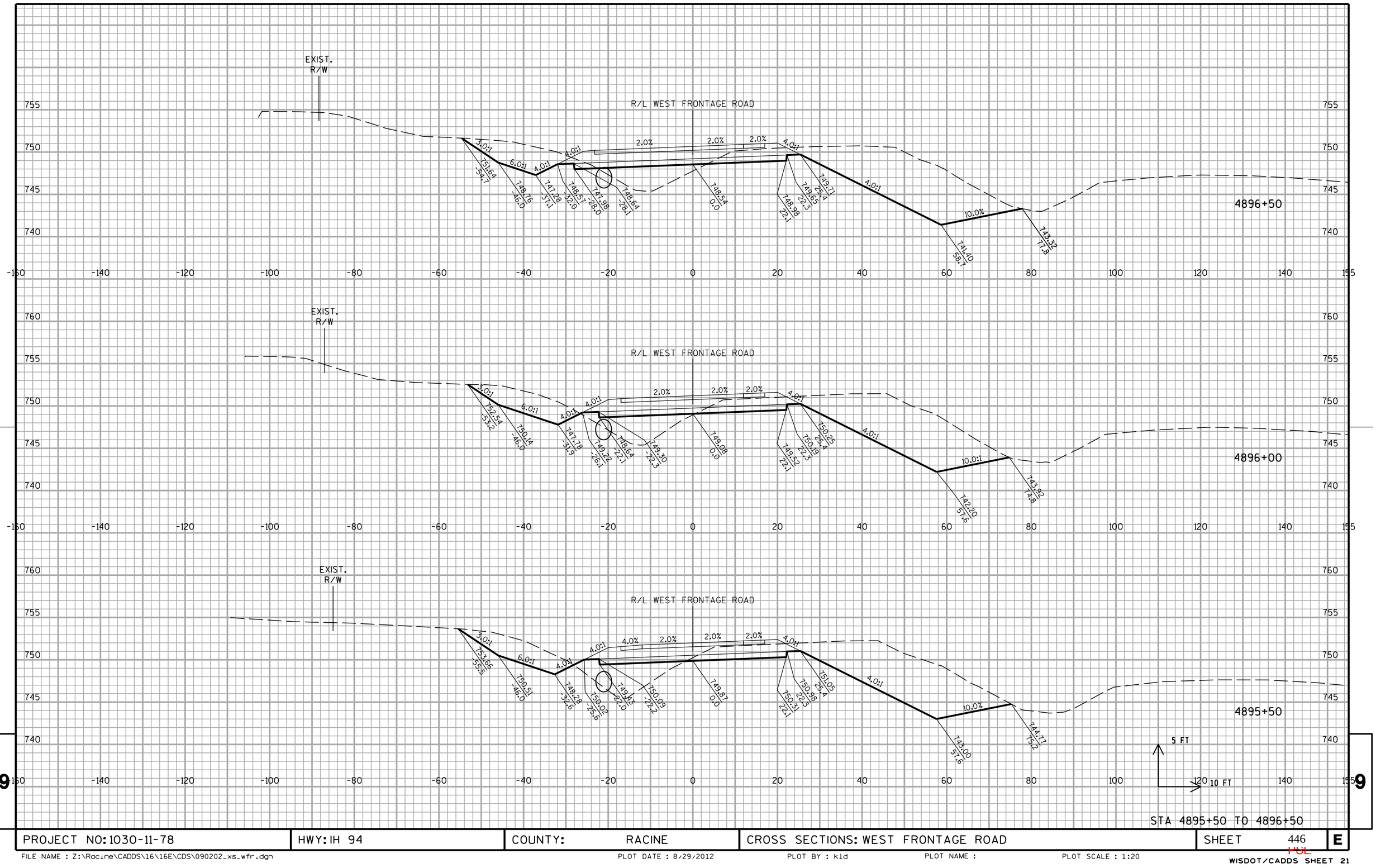
WISDOT/CADDS SHEET 21



STA 4894+50 TO 4895+00

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 445	E

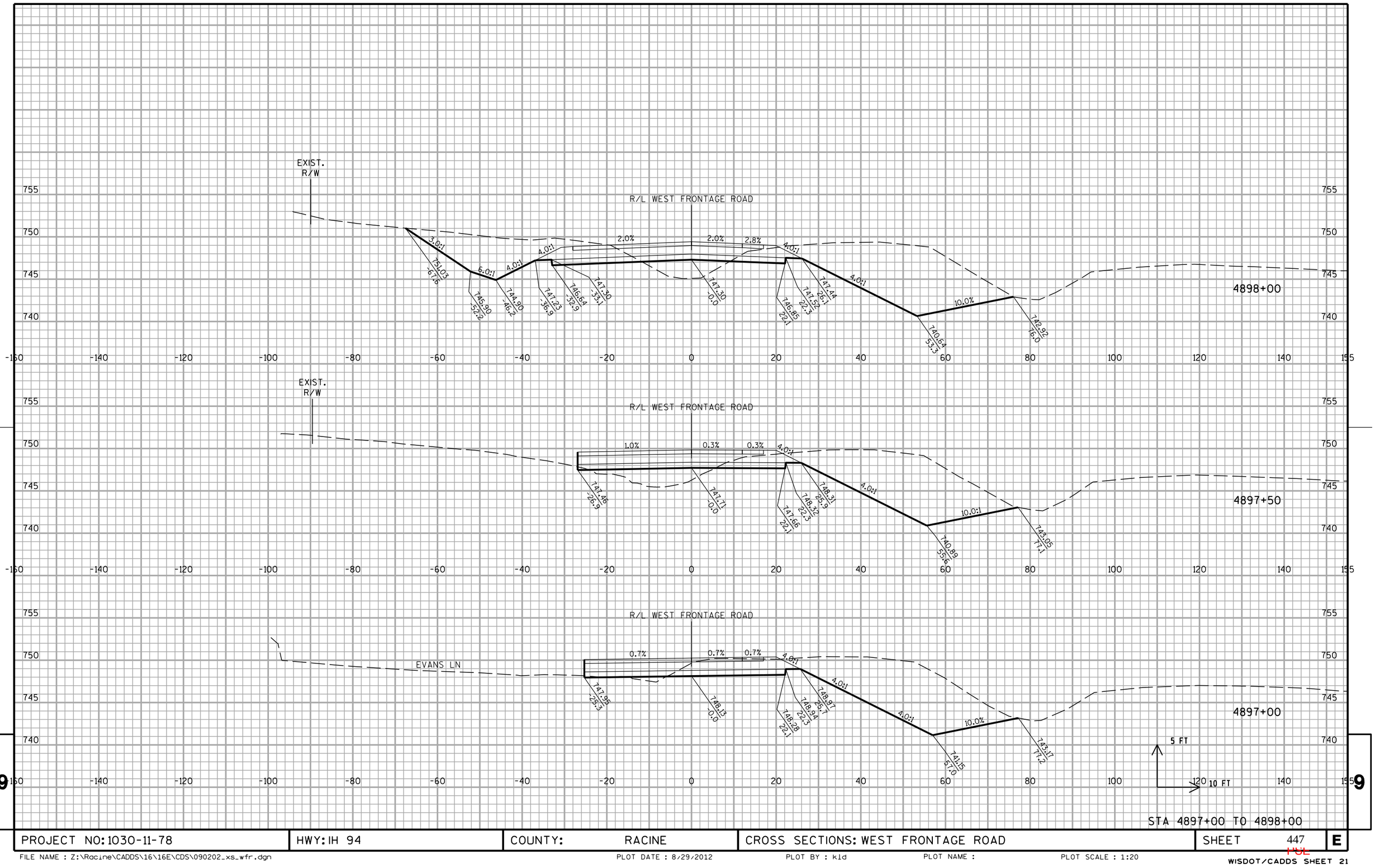
FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : | PLOT SCALE : 1:20



PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 446	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:20

10301177-00008RDAPERM



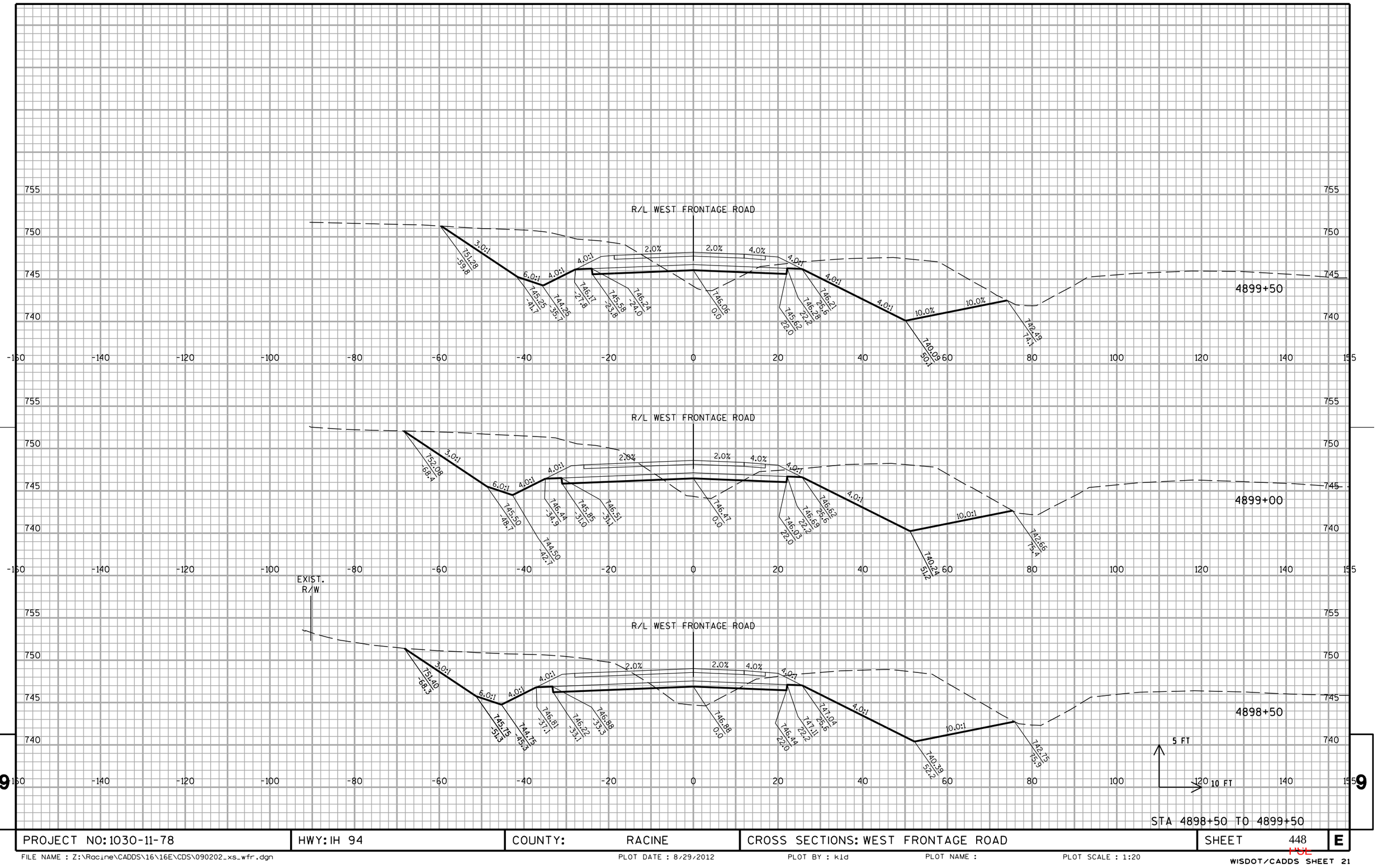
STA 4897+00 TO 4898+00

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 447	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : | PLOT SCALE : 1:20

PGL

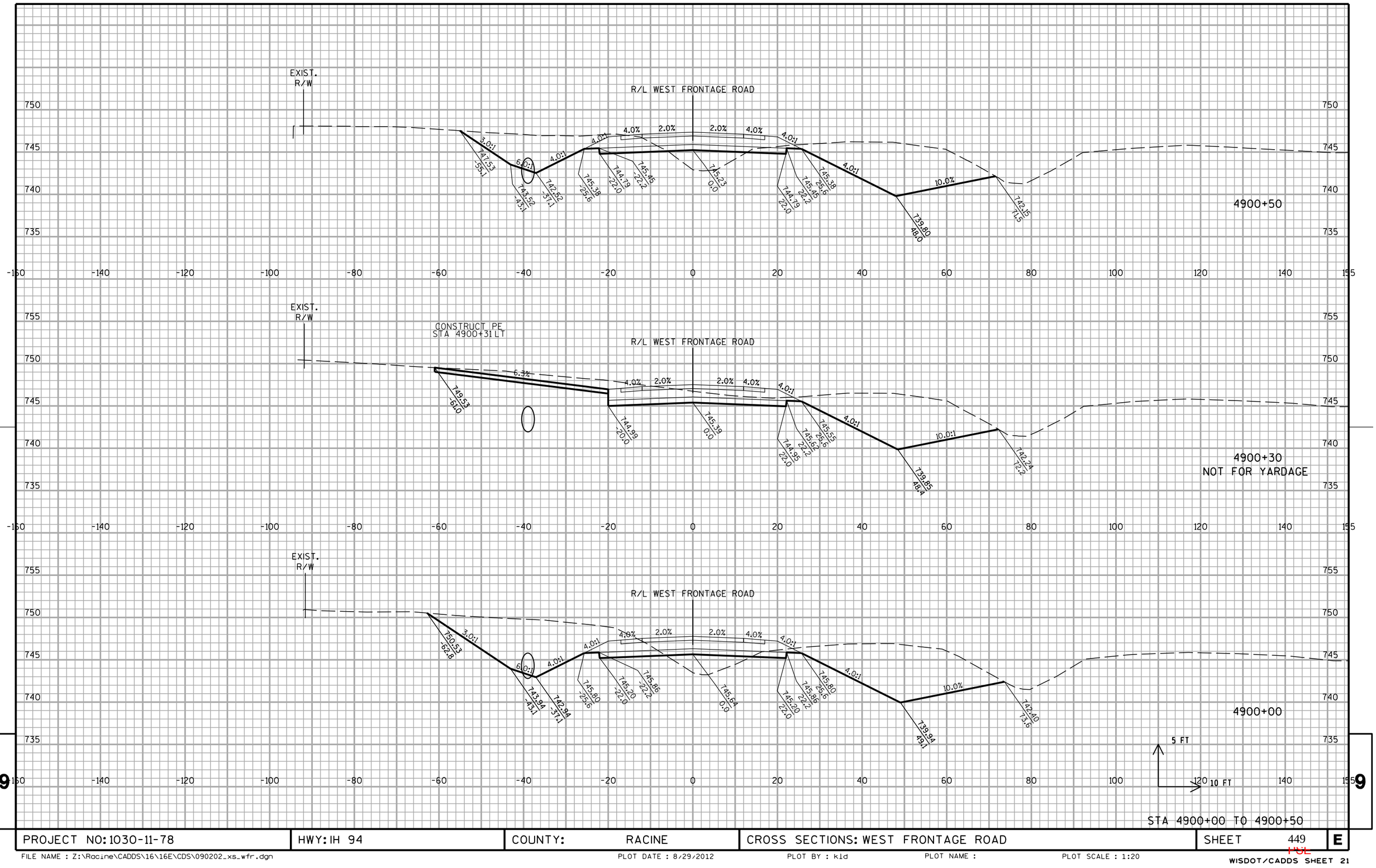
WISDOT/CADDS SHEET 21



PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 448	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : | PLOT SCALE : 1:20

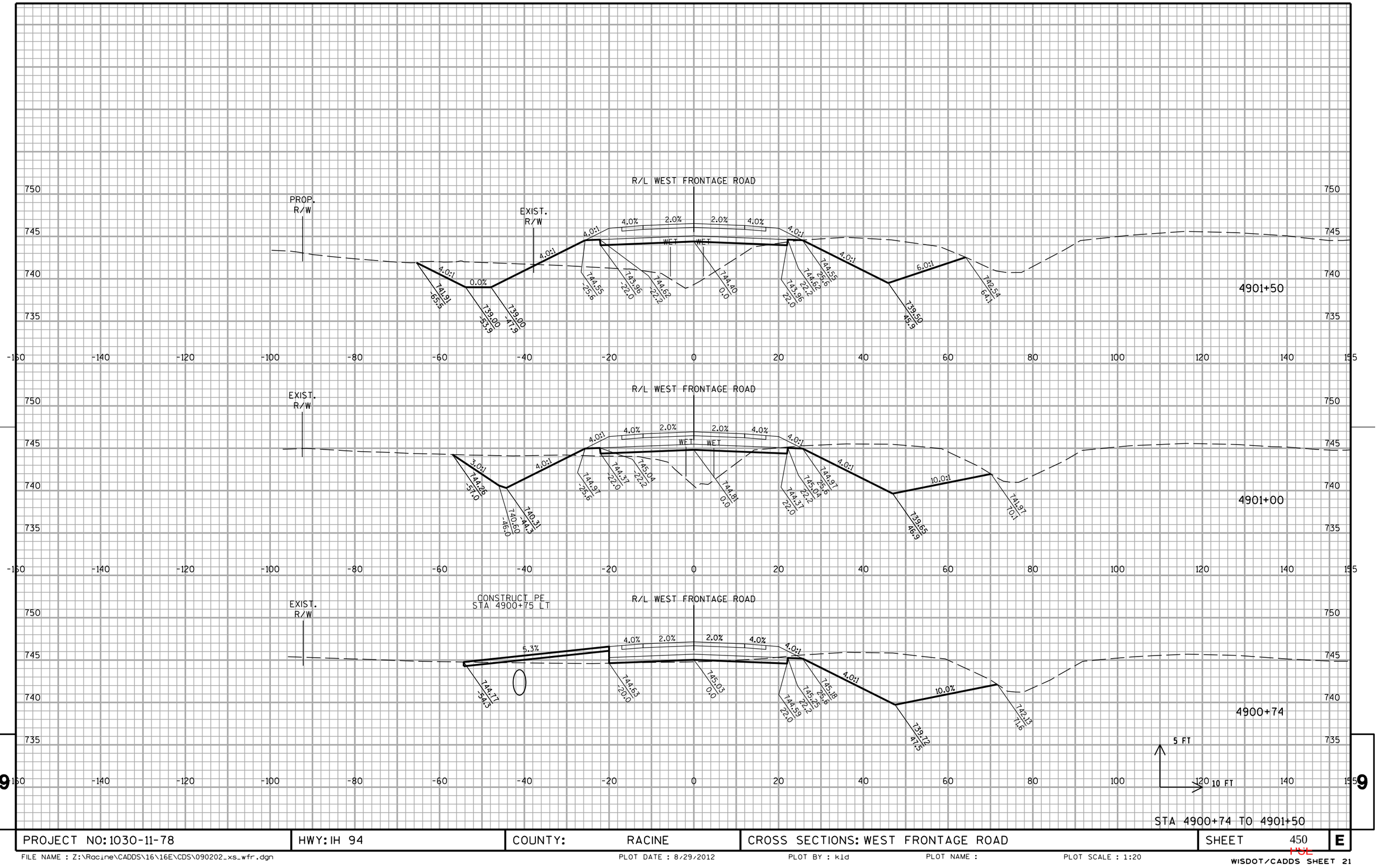
WISDOT/CADDS SHEET 21



PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 449	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



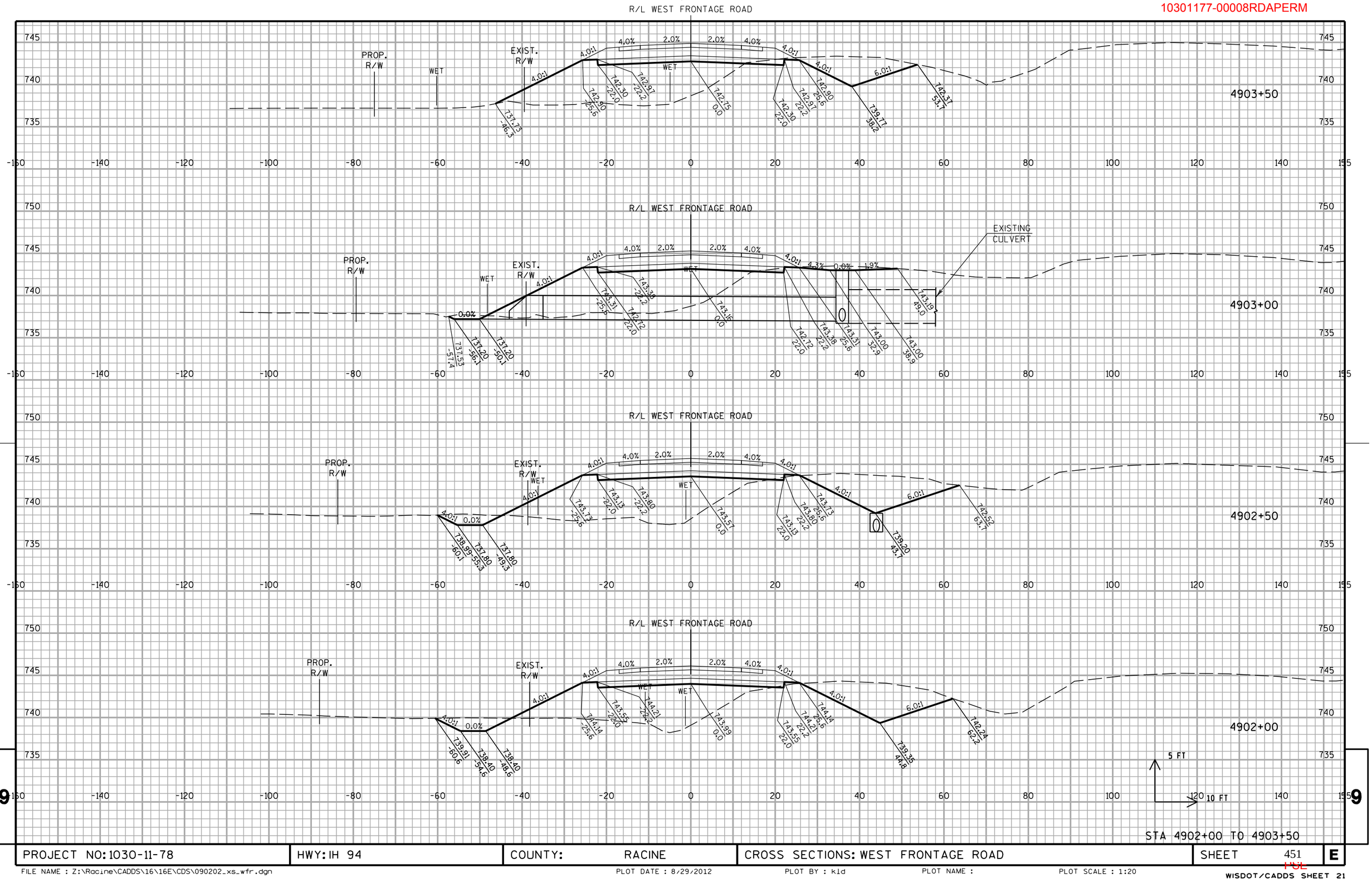
STA 4900+74 TO 4901+50

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 450	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

10301177-00008RDAPERM

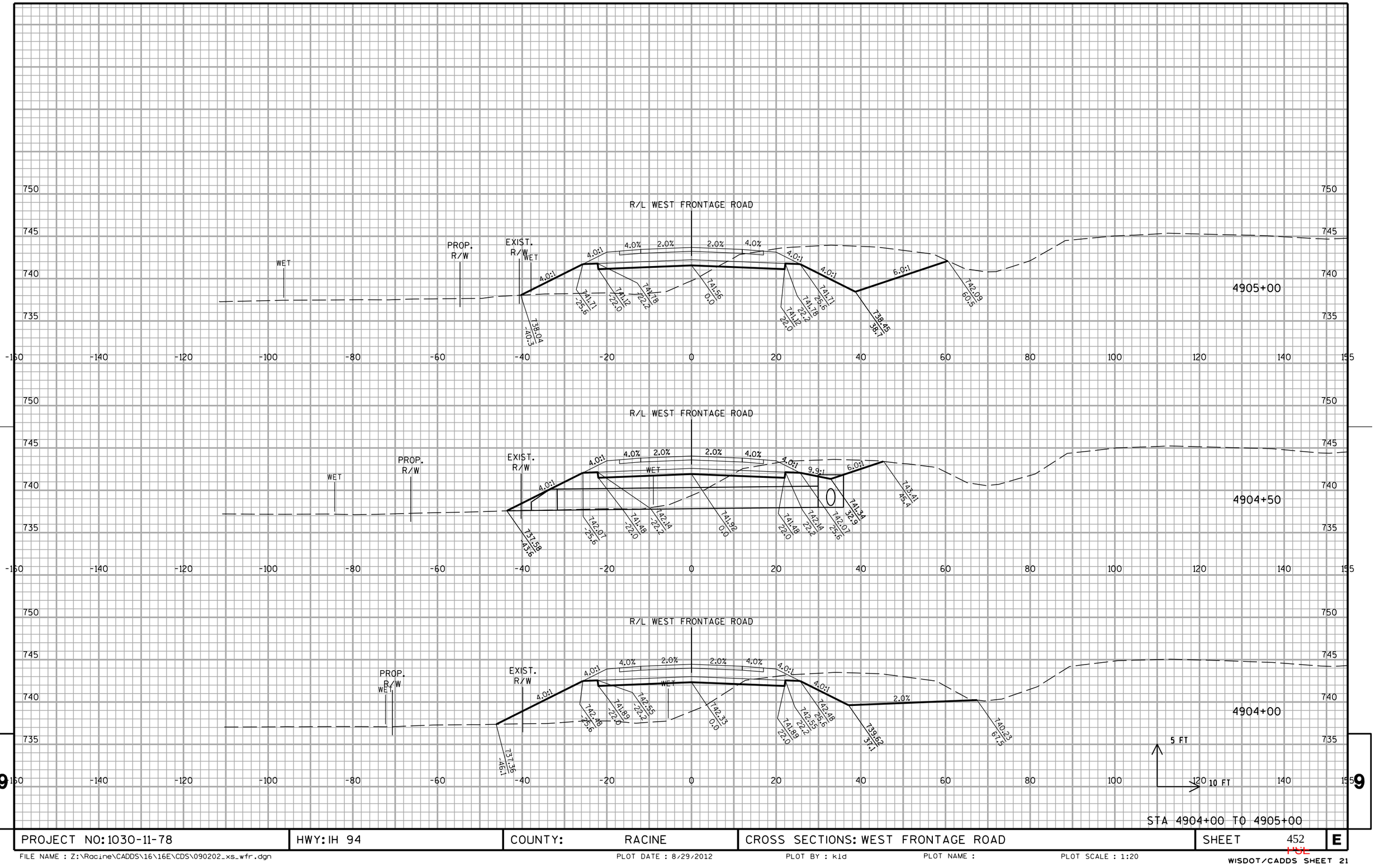


STA 4902+00 TO 4903+50

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 451	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



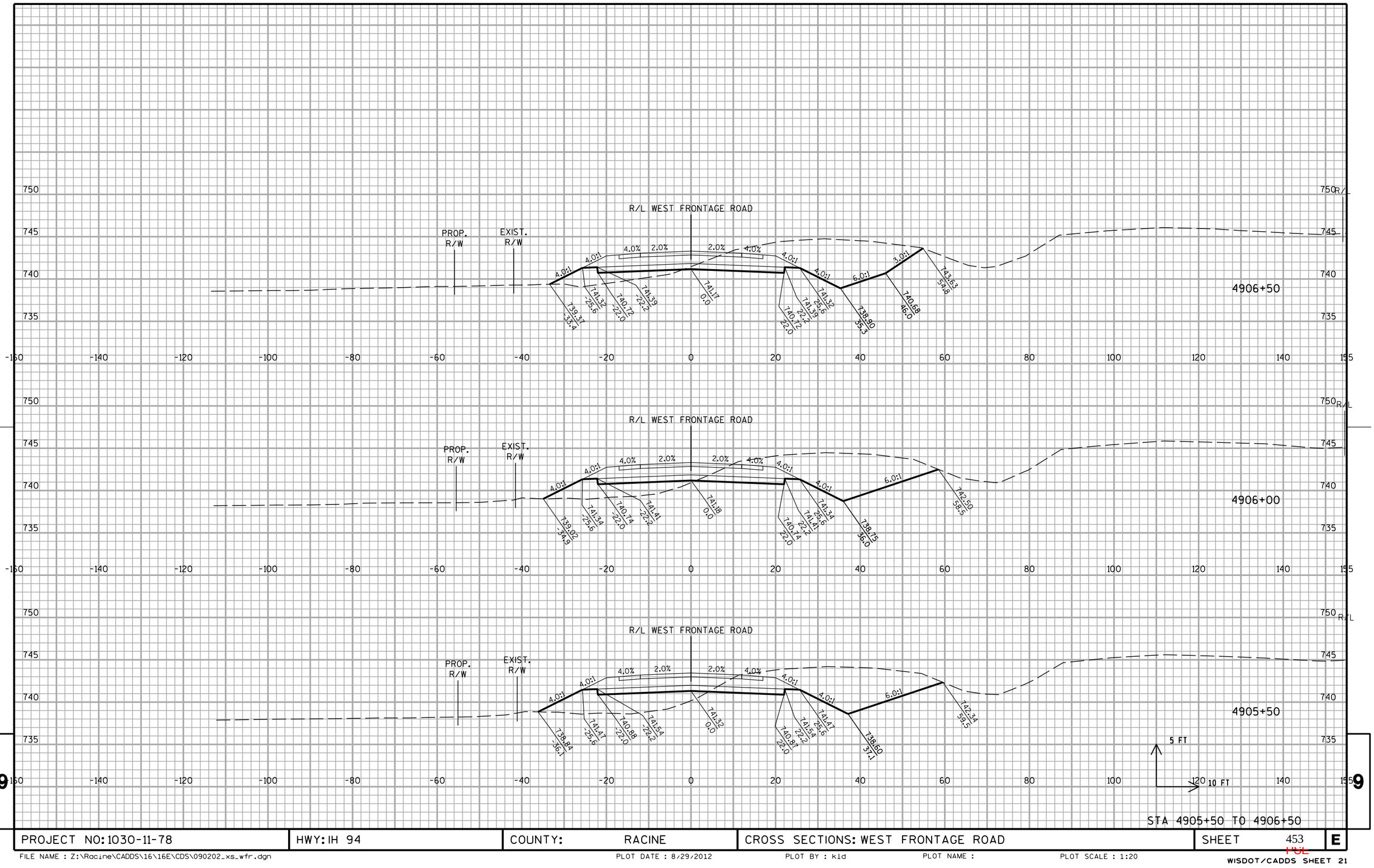
STA 4904+00 TO 4905+00

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 452	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

10301177-00008RDAPERM



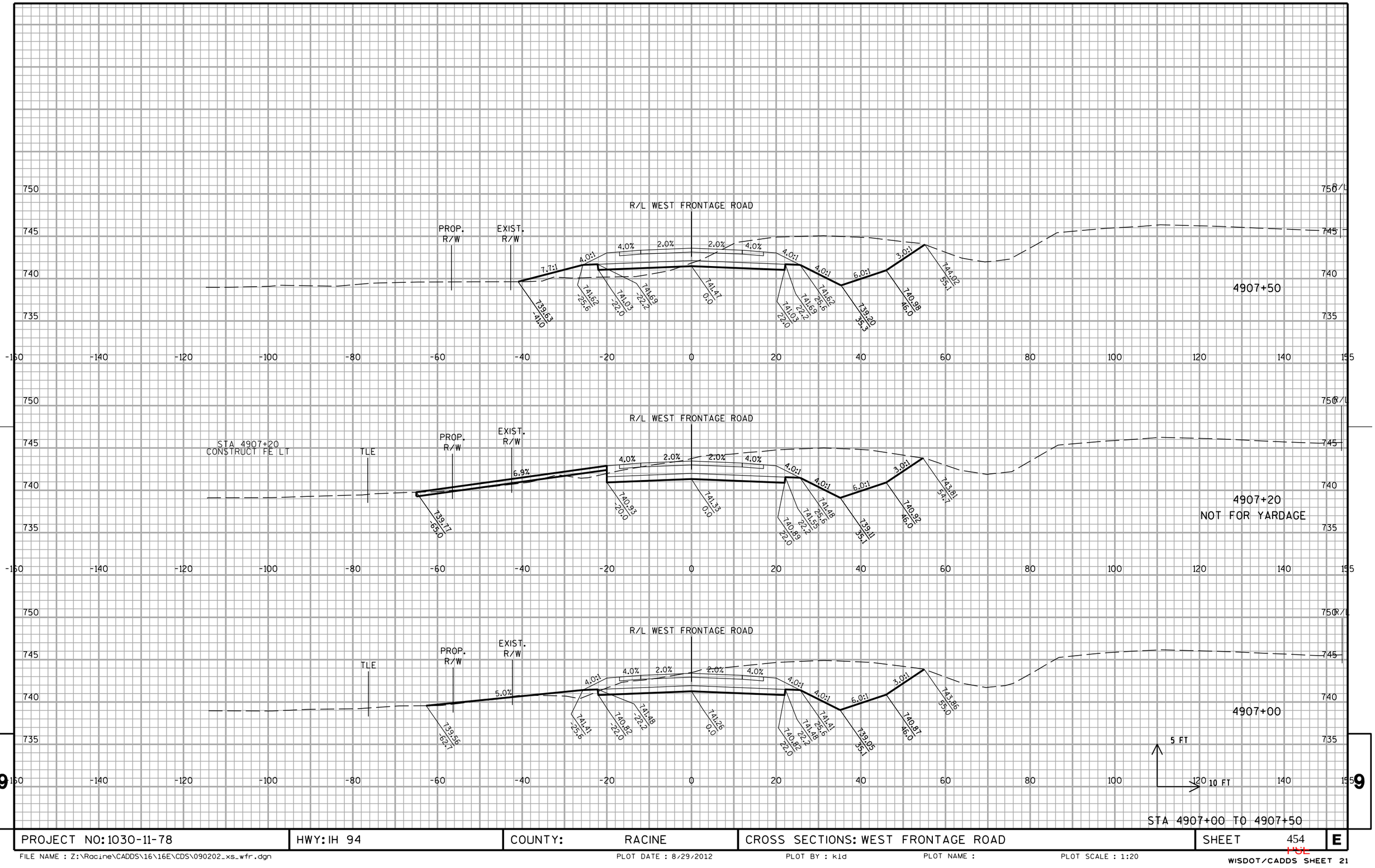
STA 4905+50 TO 4906+50

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 453	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : | PLOT SCALE : 1:20

HSL

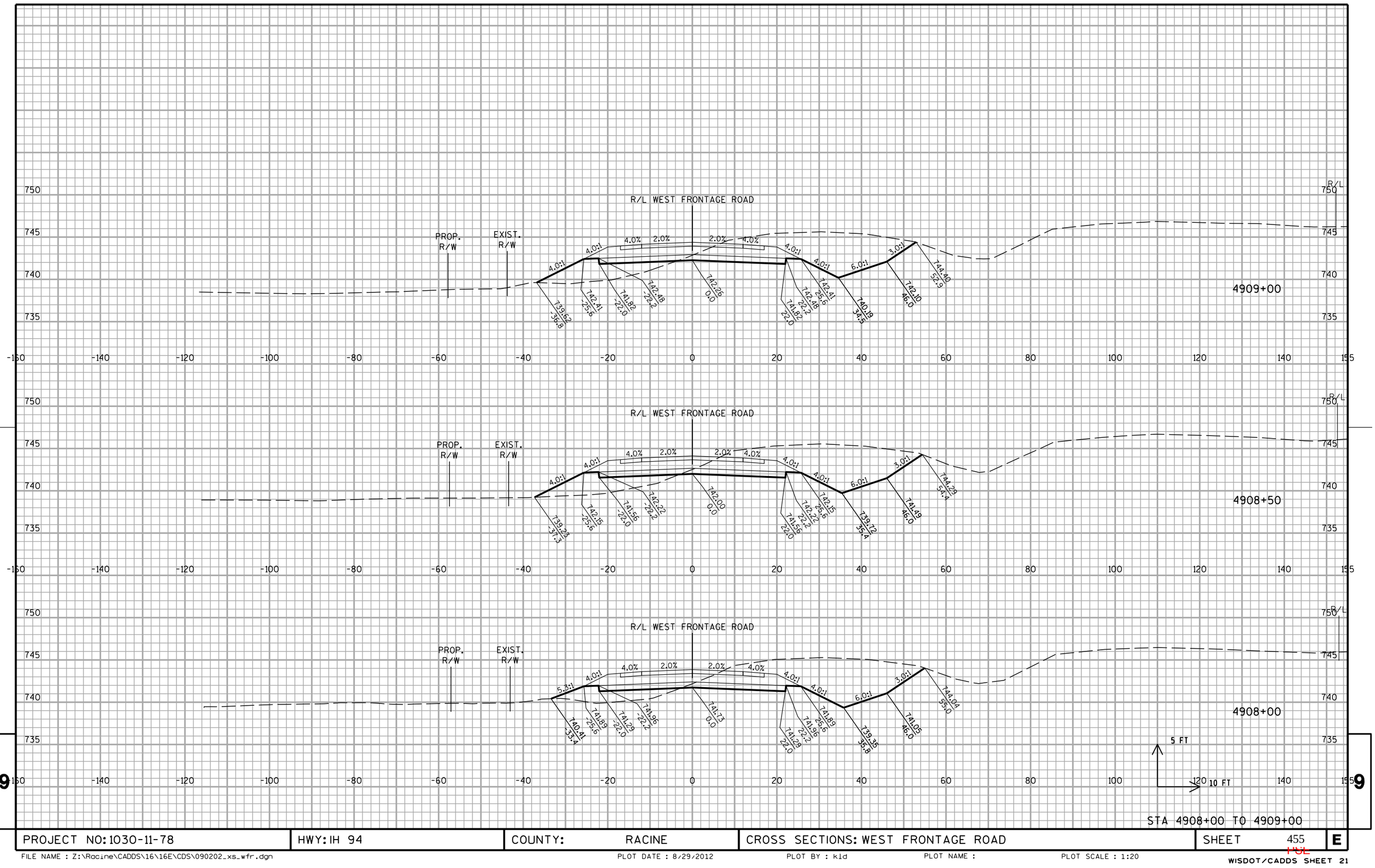
WISDOT/CADDS SHEET 21



PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 454	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

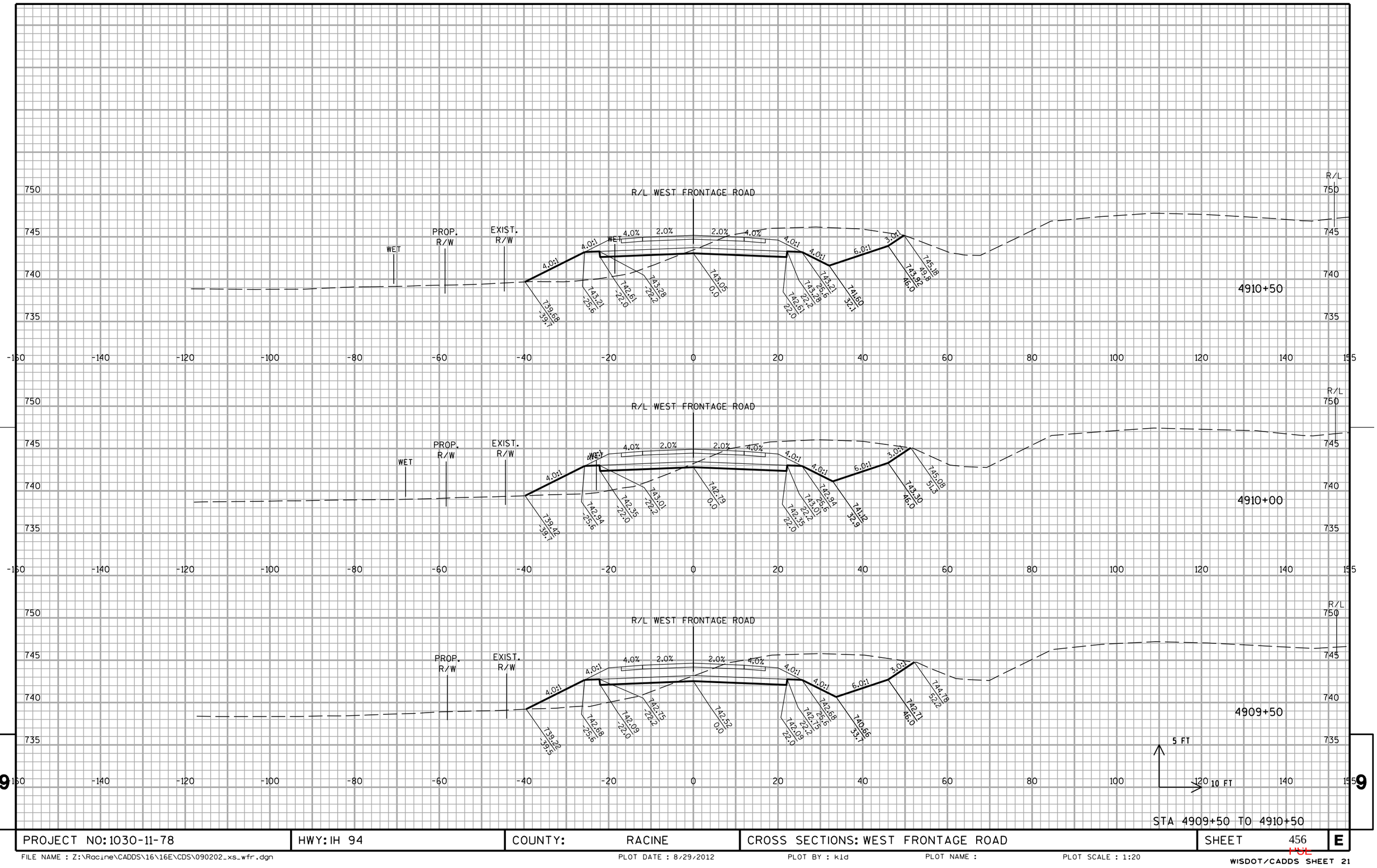


STA 4908+00 TO 4909+00

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 455	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

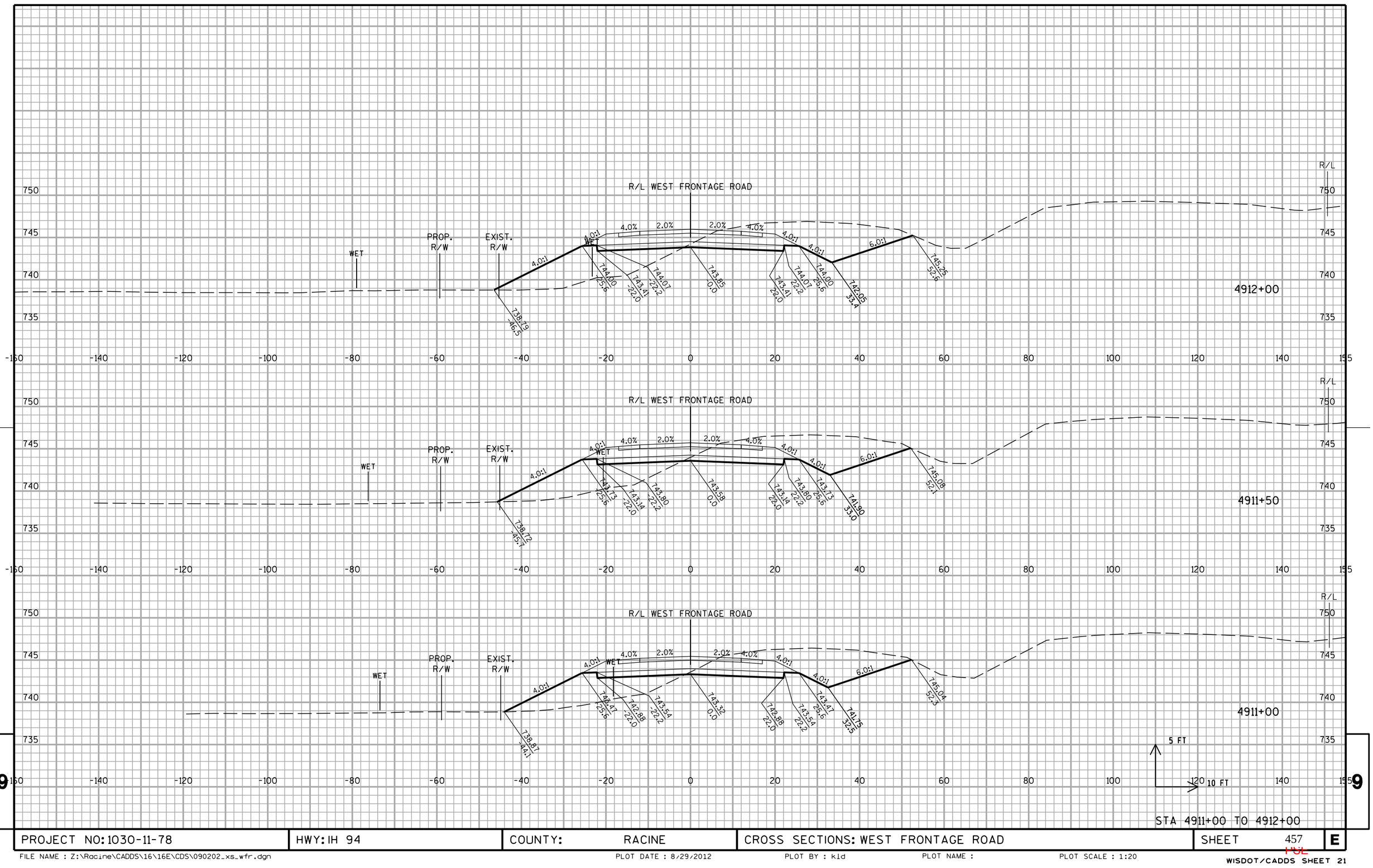


STA 4909+50 TO 4910+50

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 456	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

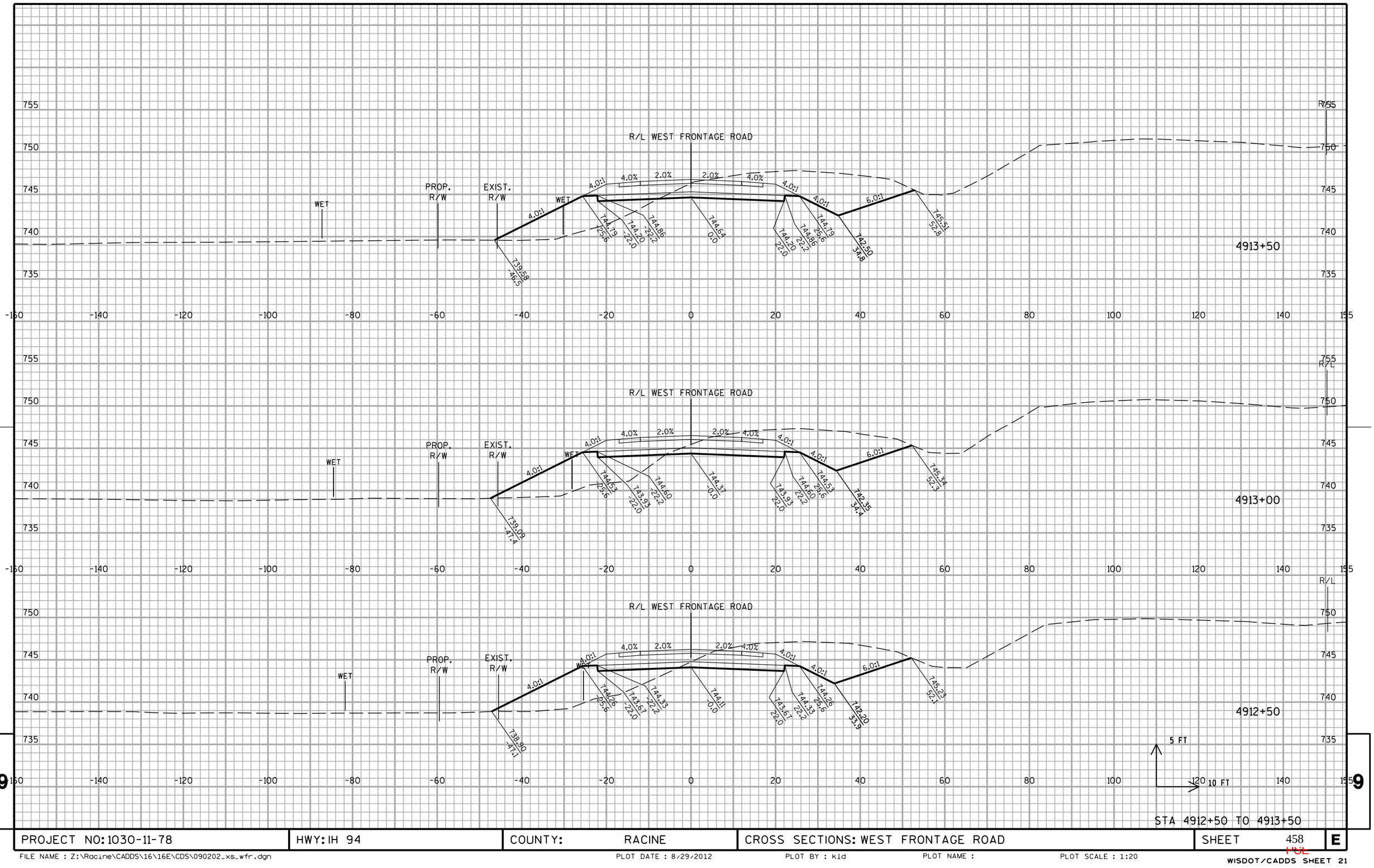


STA 4911+00 TO 4912+00

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 457	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

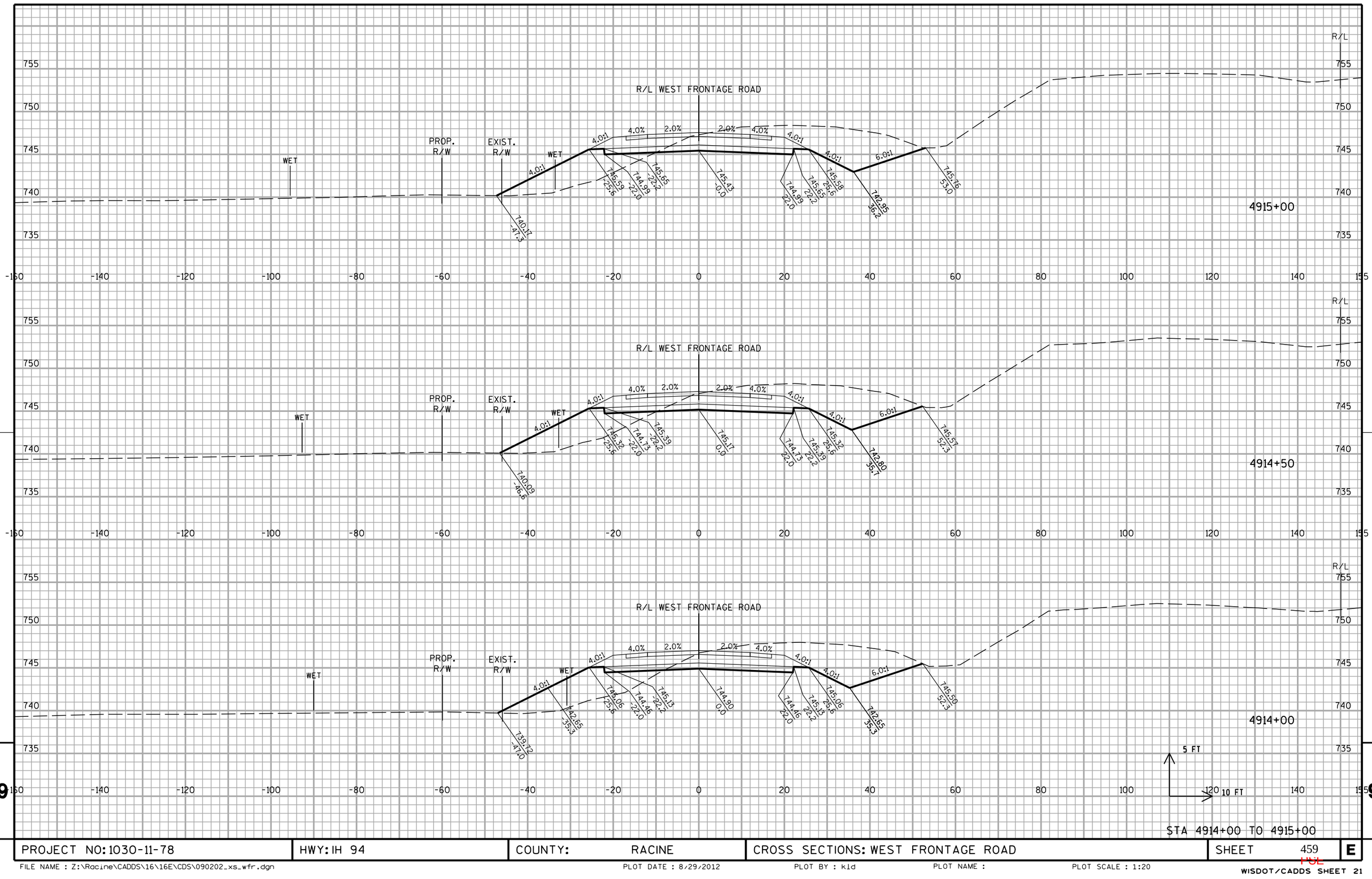


STA 4912+50 TO 4913+50

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 458	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

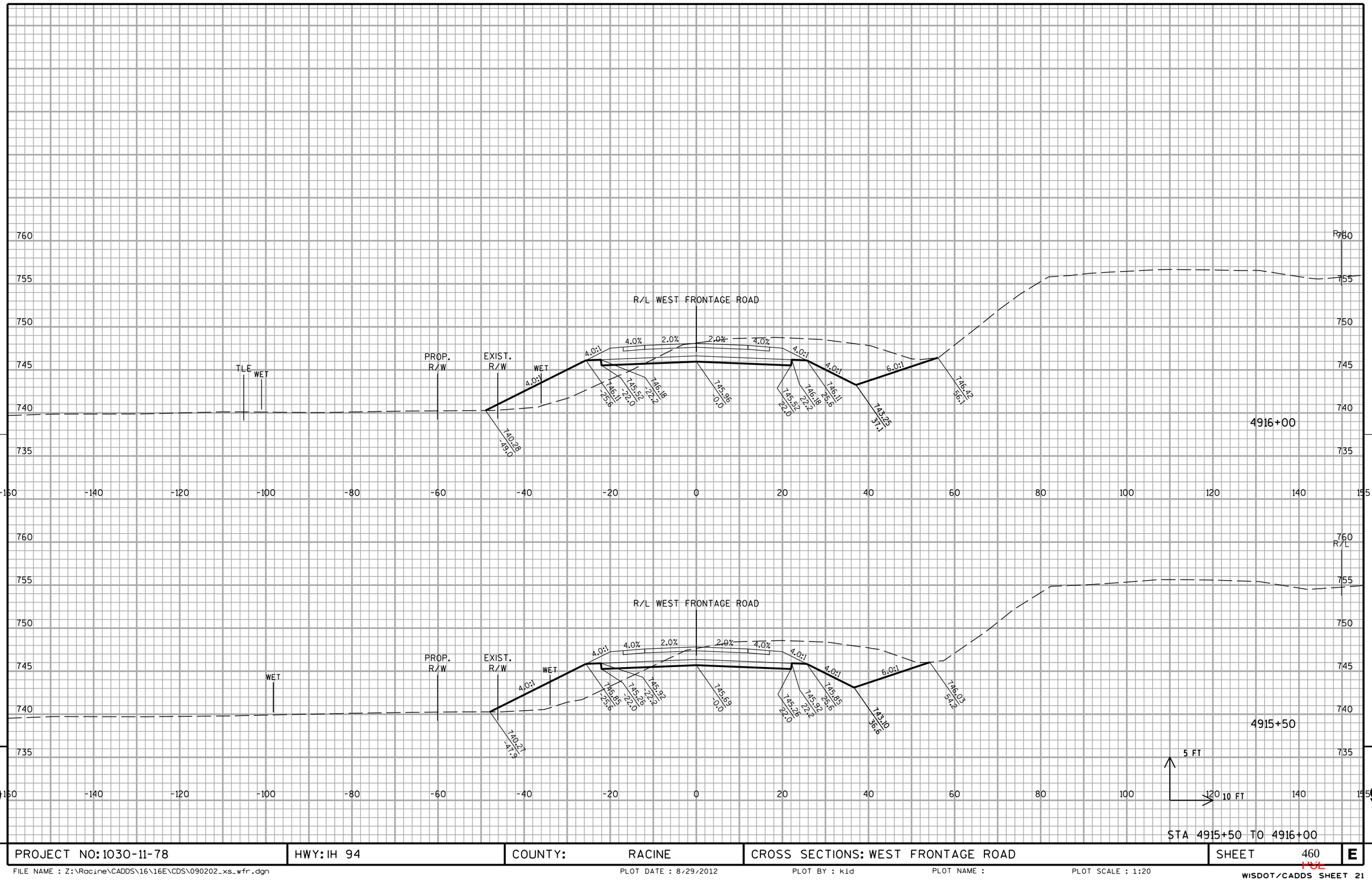


STA 4914+00 TO 4915+00

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 459	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

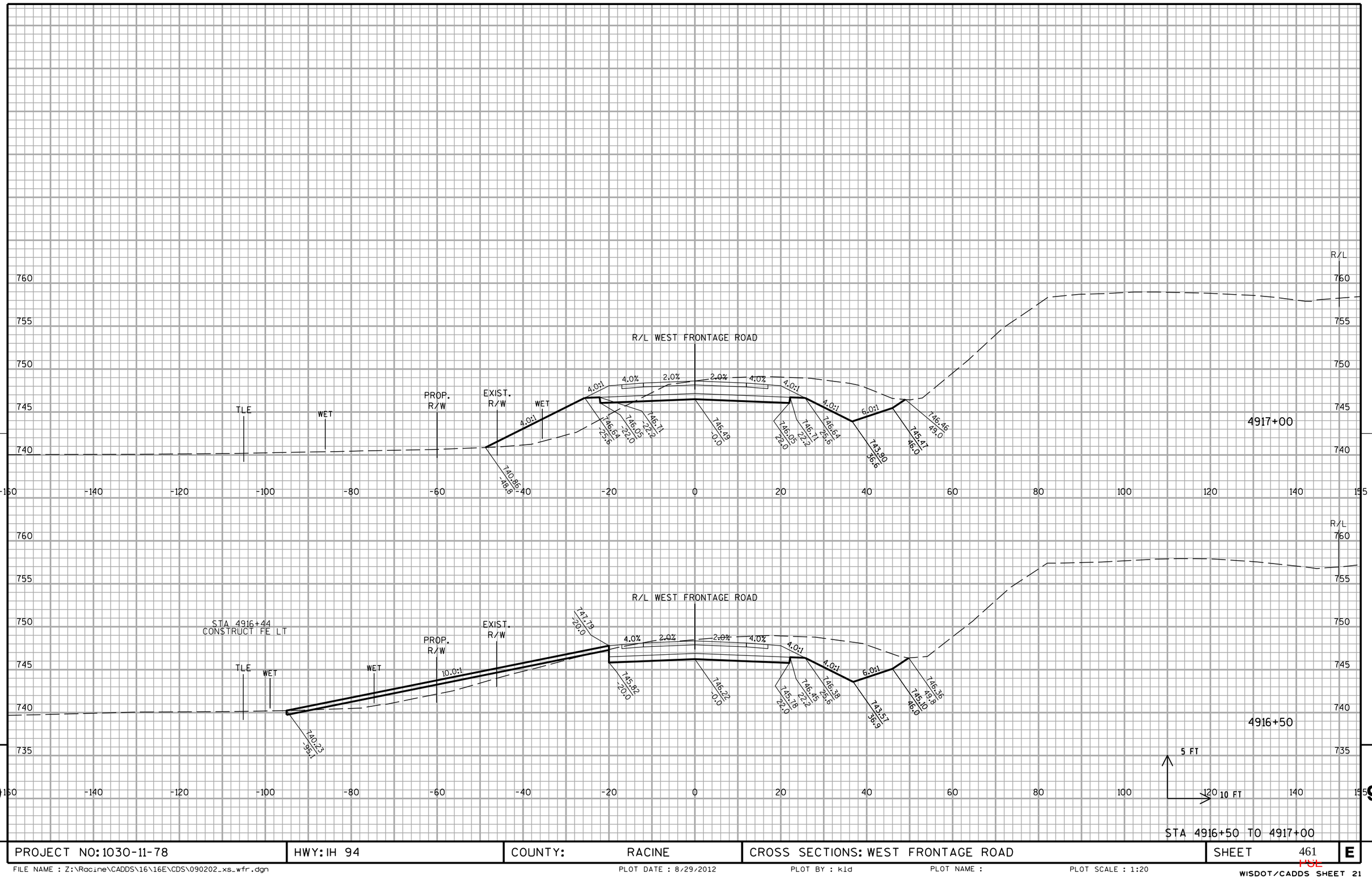


9

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 460	E

9

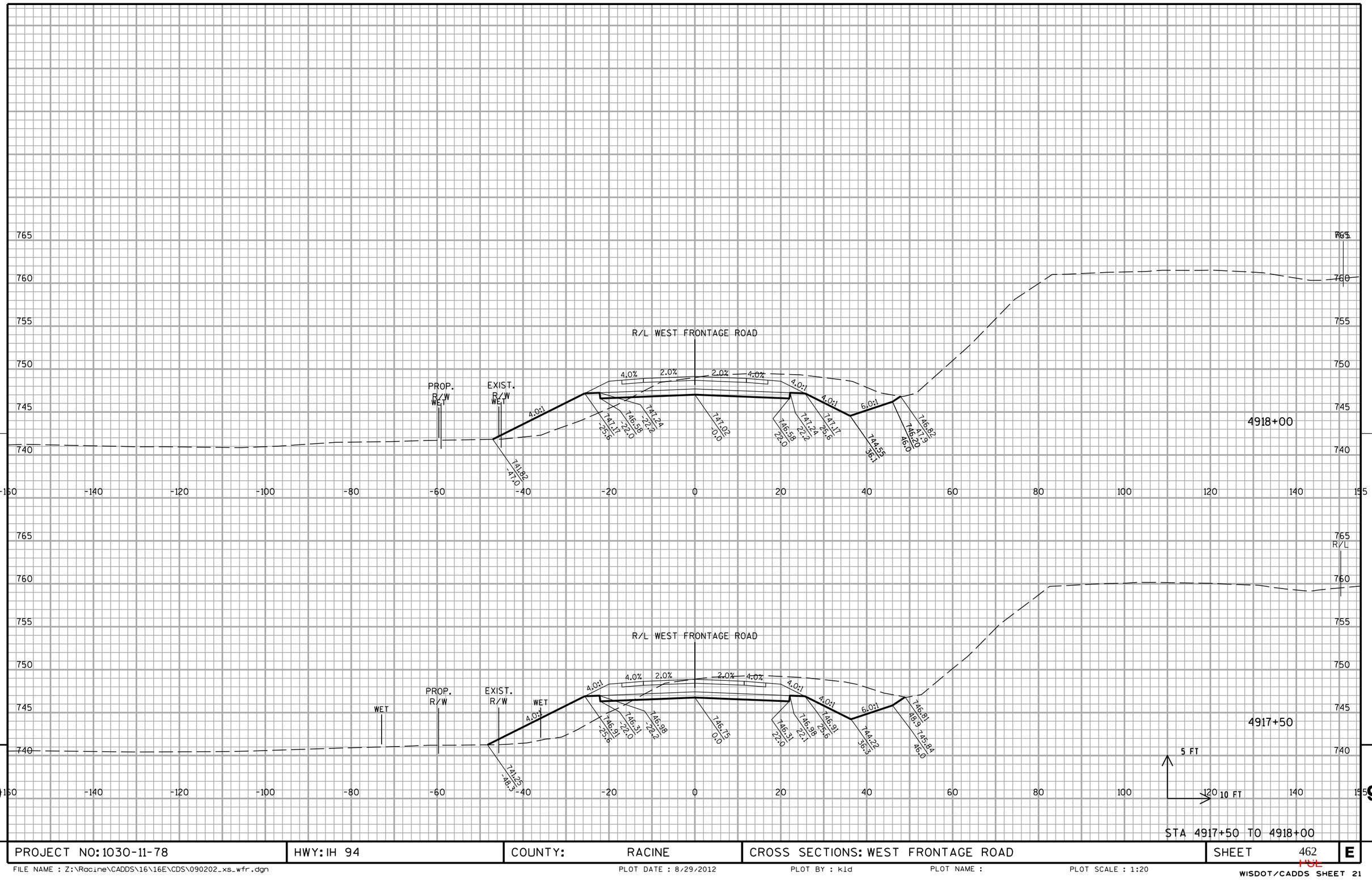
FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : | PLOT SCALE : 1:20



PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 461	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:20

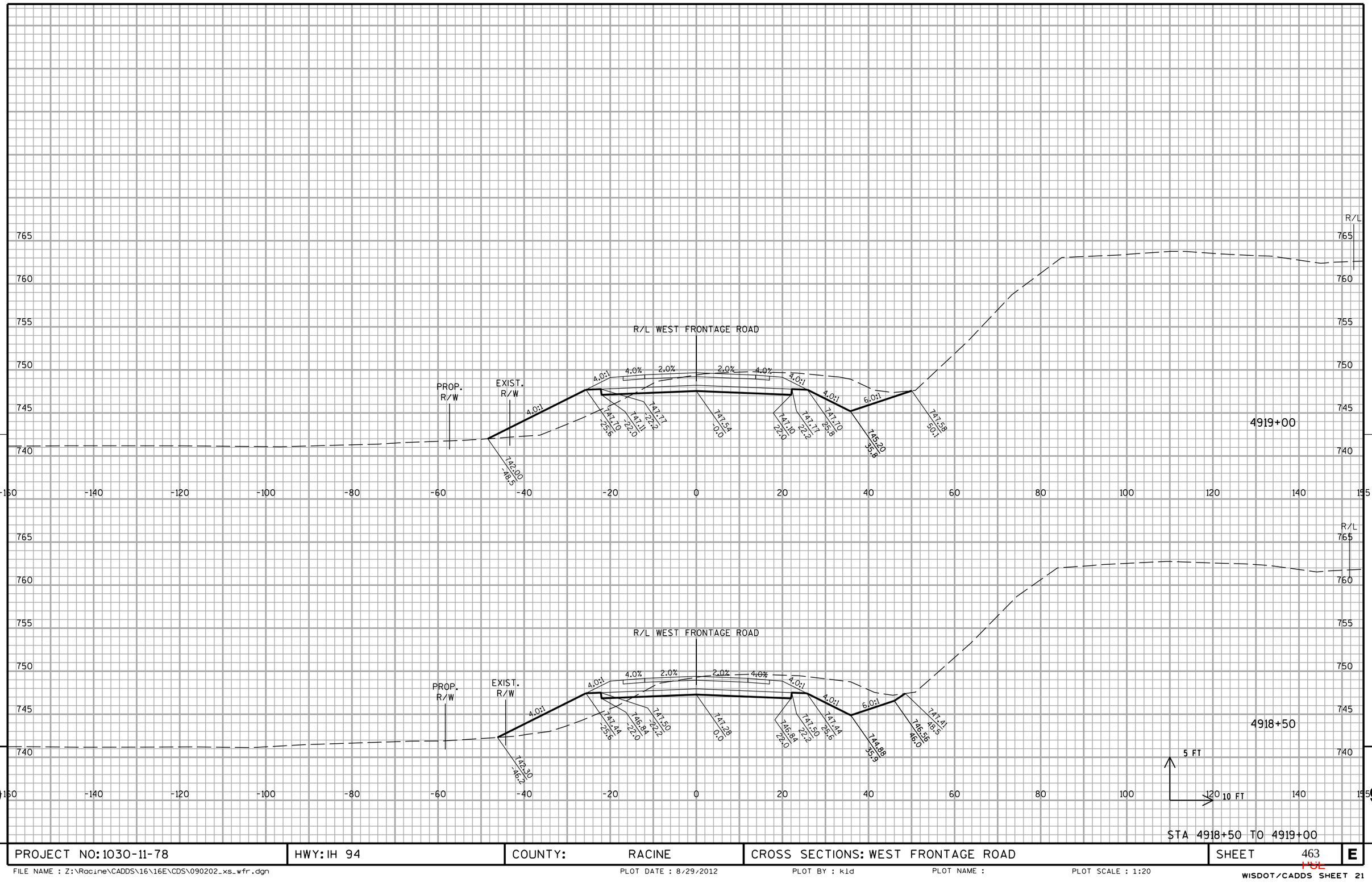
WISDOT/CADDS SHEET 21



PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 462	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:20

10301177-00008RDAPERM

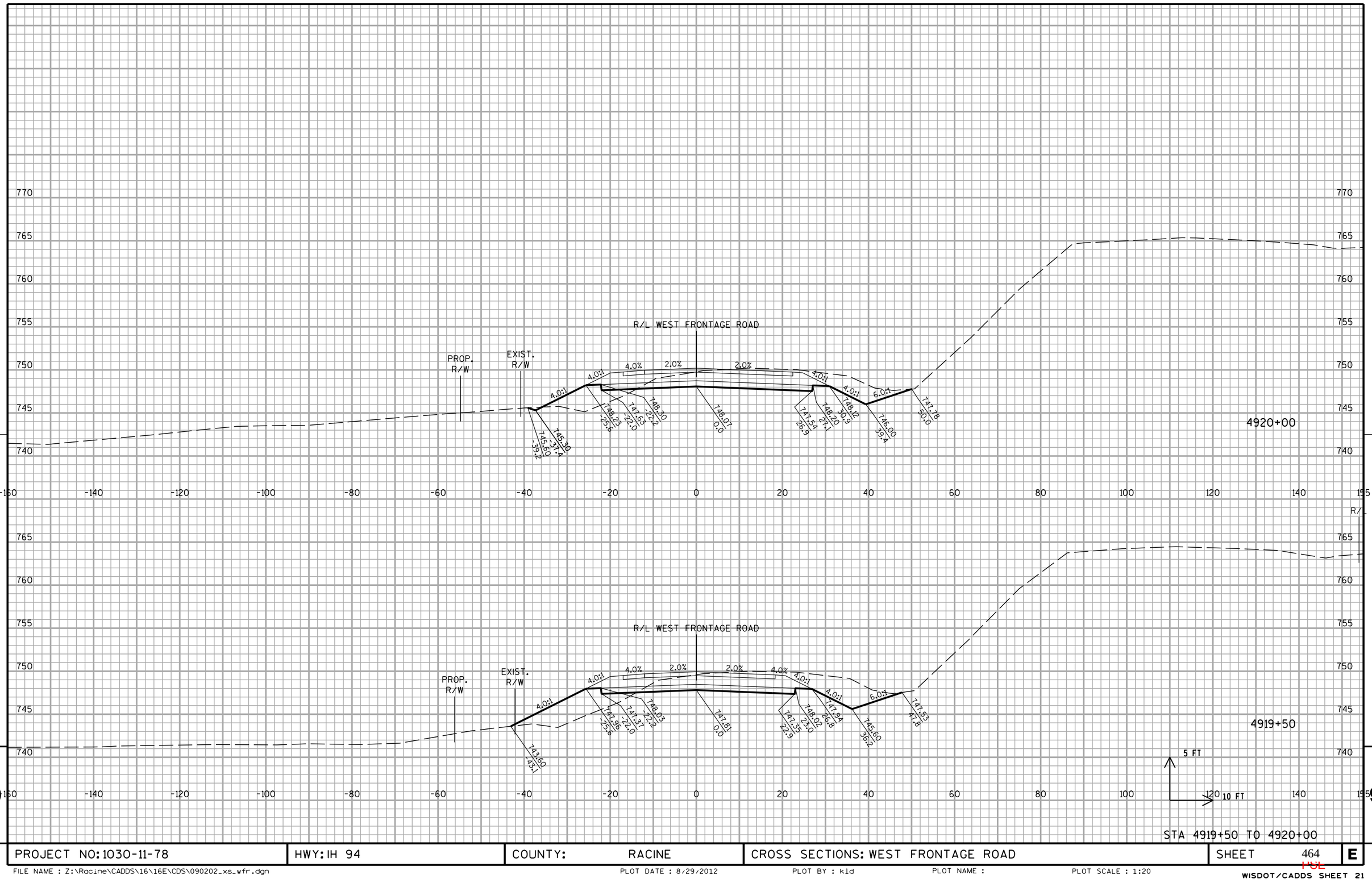


STA 4918+50 TO 4919+00

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 463	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

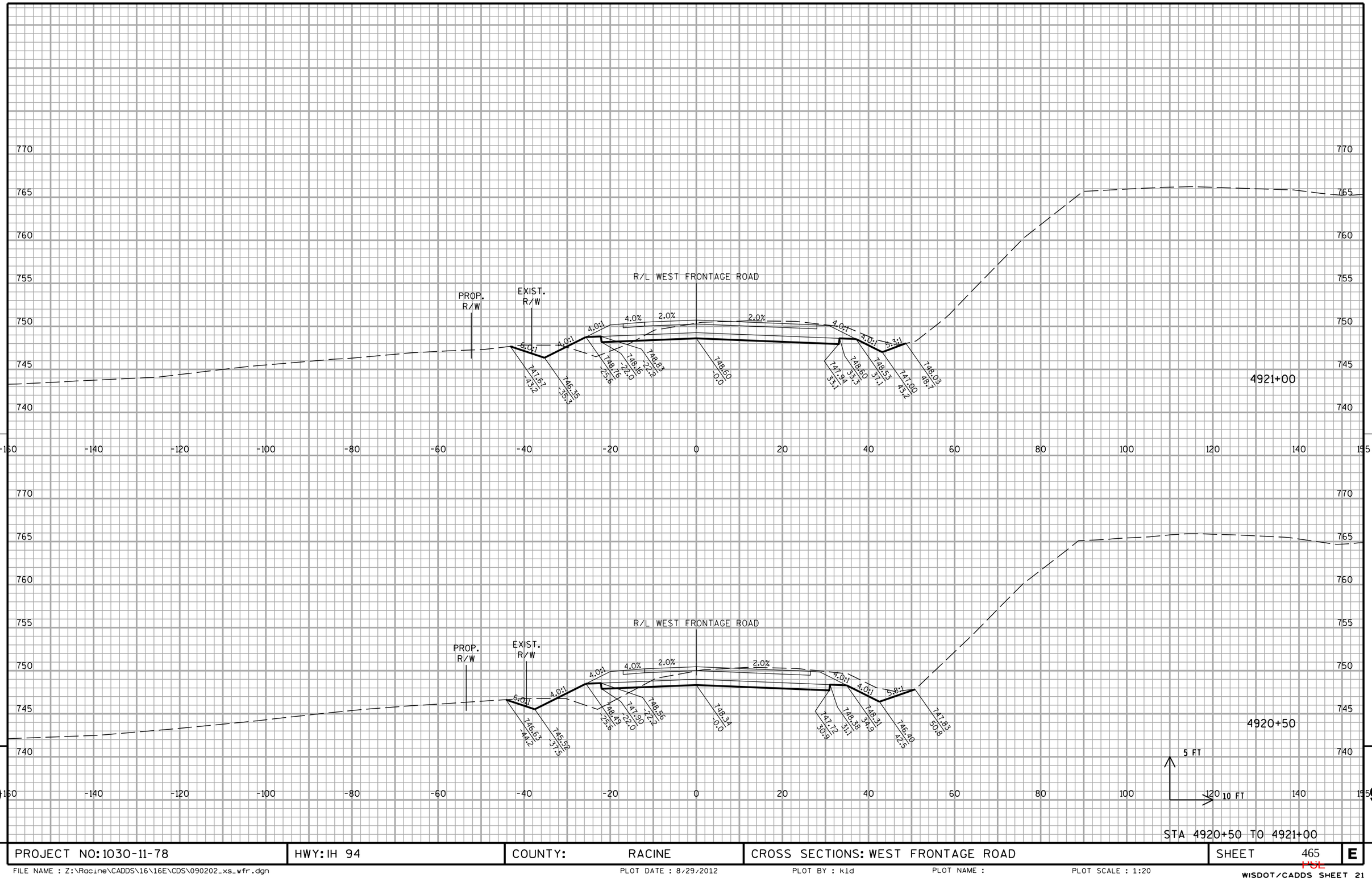


STA 4919+50 TO 4920+00

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 464	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



9

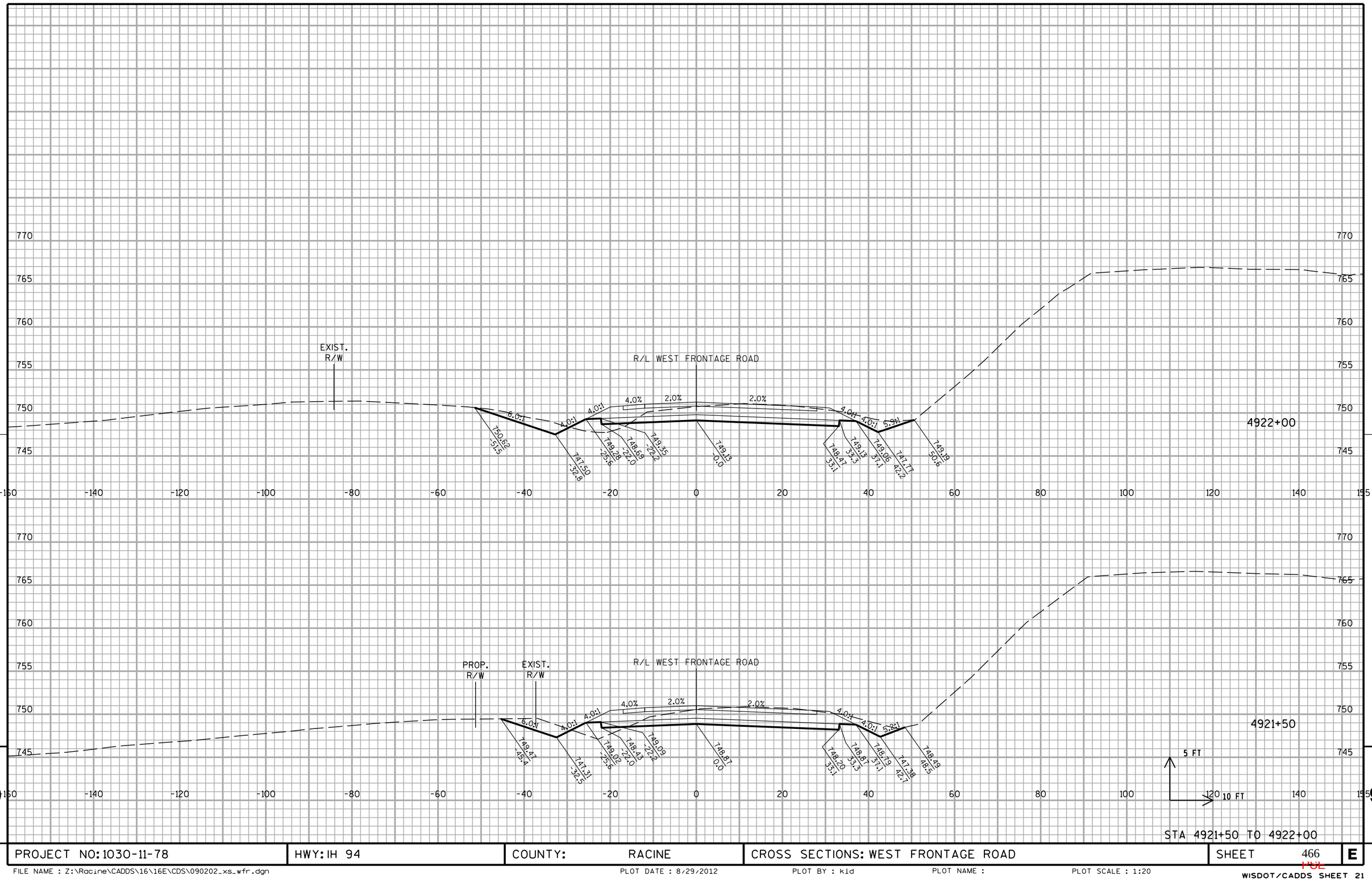
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STA 4920+50 TO 4921+00

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 465	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:20

PSL

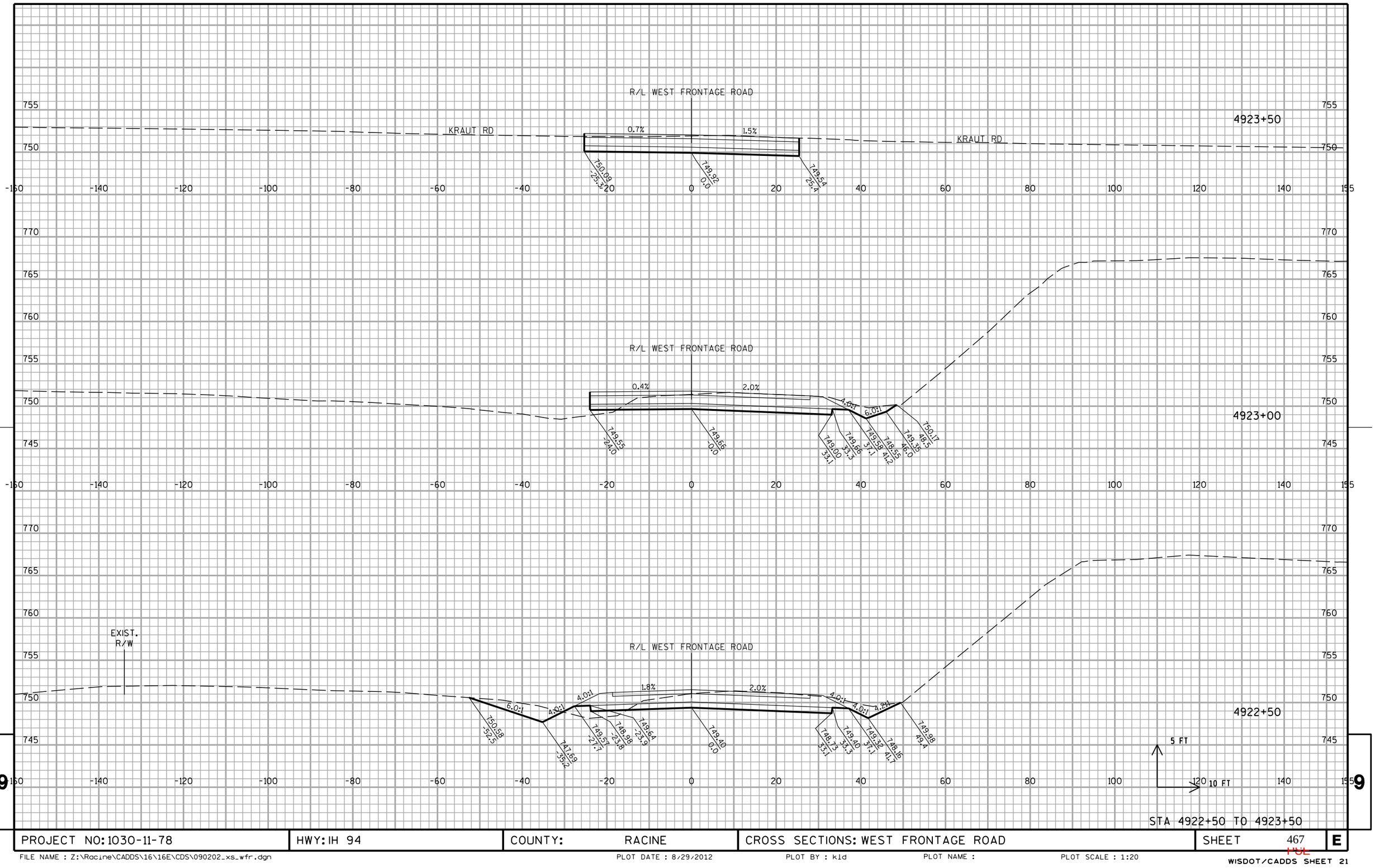


STA 4921+50 TO 4922+00

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 466	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:20

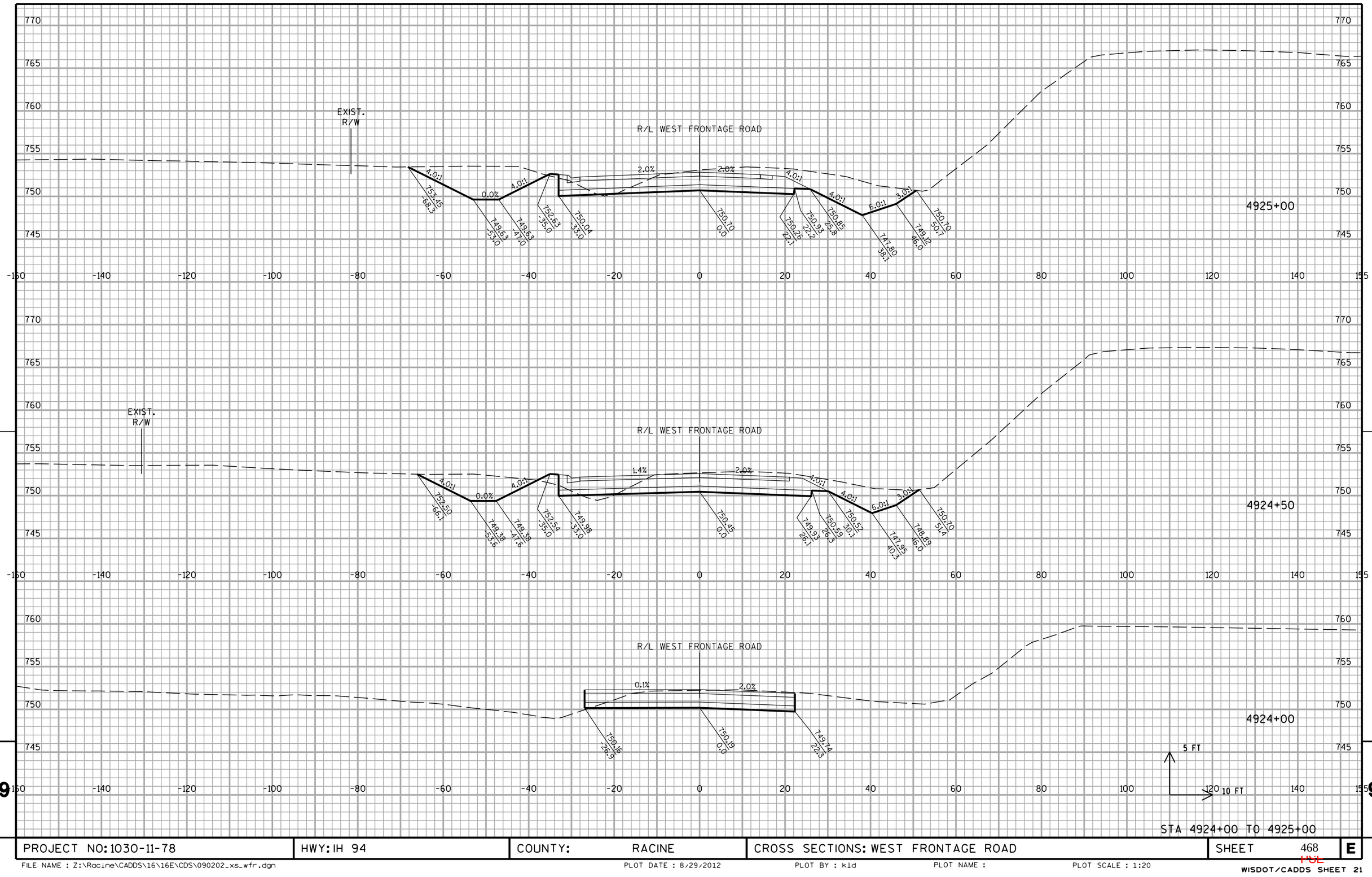
WISDOT/CADDS SHEET 21



PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 467	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:20

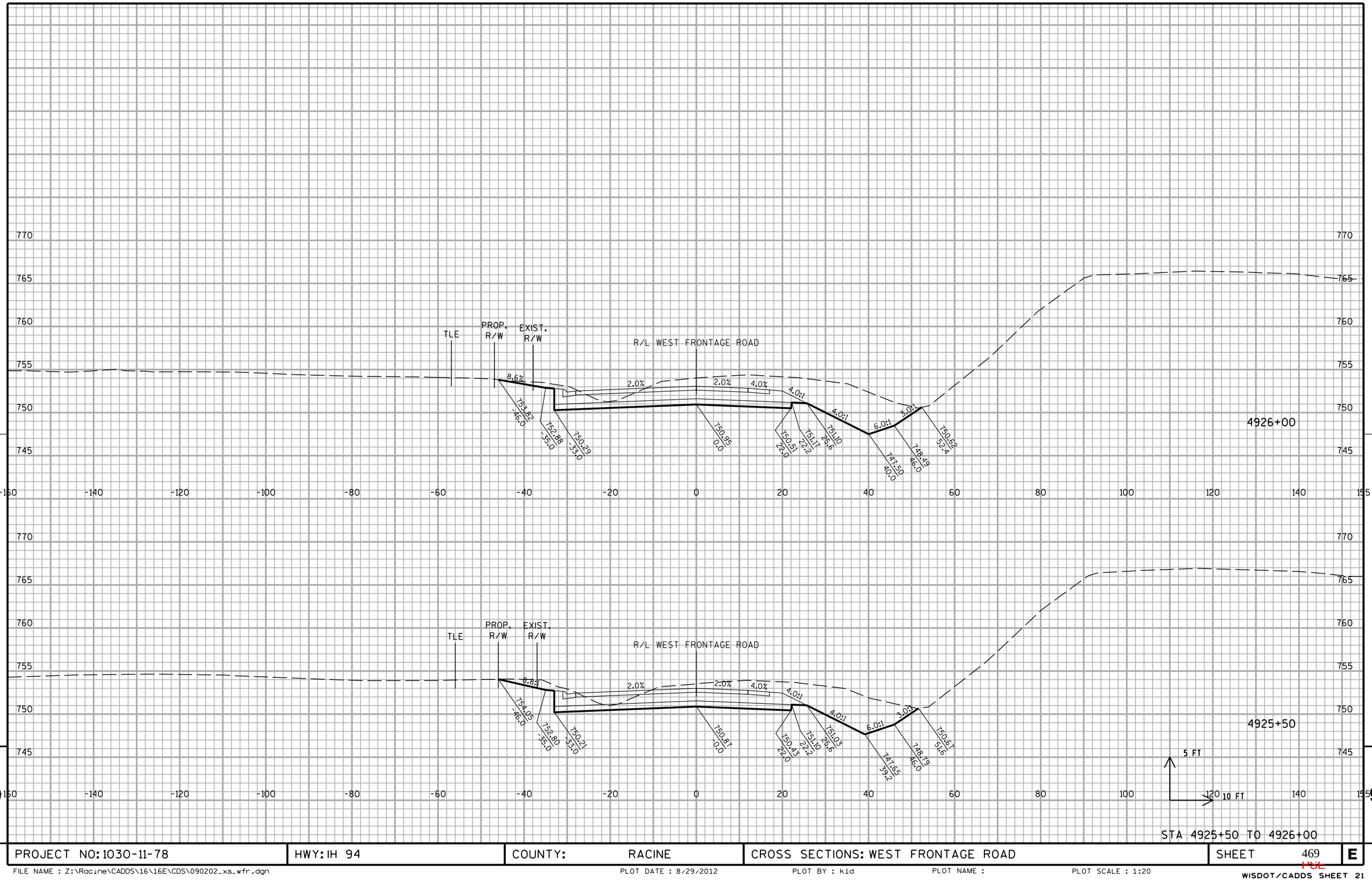
WISDOT/CADDS SHEET 21



STA 4924+00 TO 4925+00

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 468	E

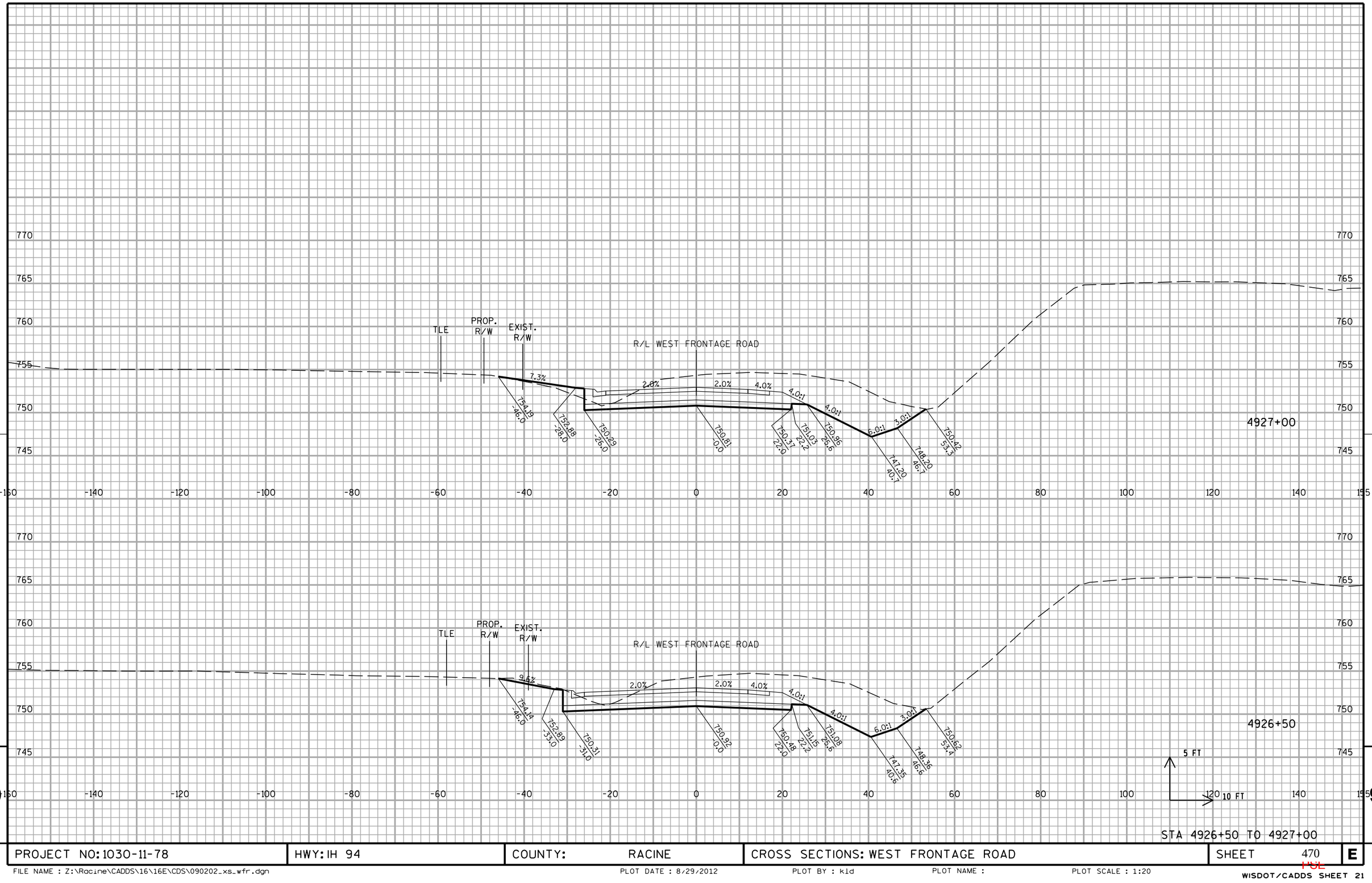
FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : | PLOT SCALE : 1:20



STA 4925+50 TO 4926+00

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 469	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : | PLOT SCALE : 1:20



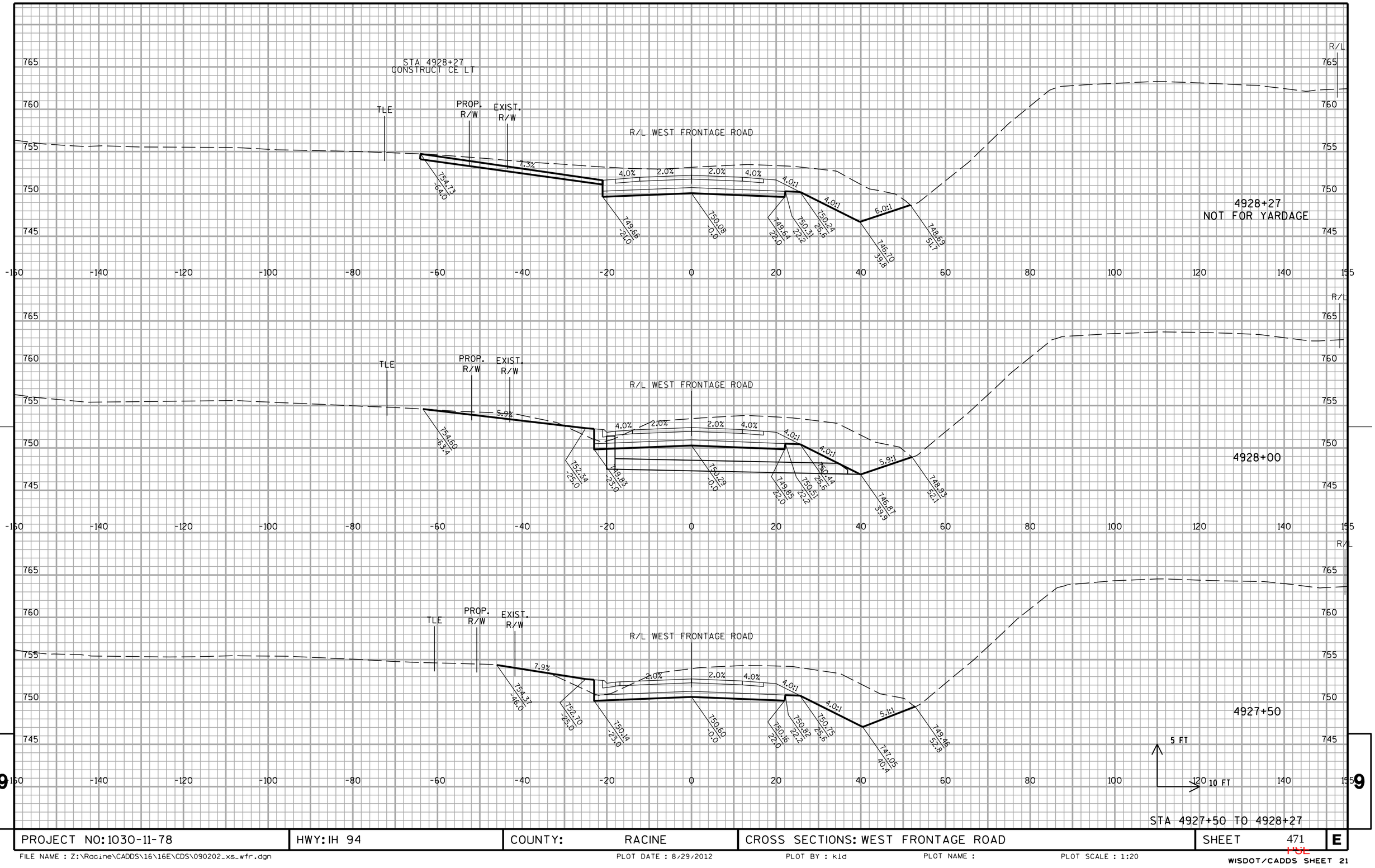
STA 4926+50 TO 4927+00

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 470	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

10301177-00008RDAPERM



STA 4927+50 TO 4928+27

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 471	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn
PLOT DATE : 8/29/2012
PLOT BY : kld
PLOT NAME :
PLOT SCALE : 1:20
WISDOT/CADDS SHEET 21

STA 4929+58
CONSTRUCT CE LT

PROP. R/W
EXIST. R/W
R/L WEST FRONTAGE ROAD

6.7% 4.0% 2.0% 2.0% 4.0% 4.0:1 4.0:1 6.0:1

751.89 -24.6
749.37 -21.0
749.79 0.0
748.35 22.0
749.02 22.2
749.95 25.6
745.61 39.0
747.78 52.0

4929+50

R/L

PROP. R/W
EXIST. R/W
R/L WEST FRONTAGE ROAD

8.6:1 4.0% 2.0% 2.0% 4.0% 4.0:1 4.0:1 6.0:1

752.56 -39.0
751.40 -25.0
749.93 -23.0
749.39 0.0
748.95 22.0
749.81 22.2
749.54 25.6
746.15 39.2
748.08 50.8

4929+00

R/L

TLE
PROP. R/W
EXIST. R/W
R/L WEST FRONTAGE ROAD

8.6% 4.0% 2.0% 2.0% 4.0% 4.0:1 4.0:1 6.0:1

754.92 -60.0
751.90 -25.0
749.43 -23.0
749.89 0.0
749.45 22.0
750.11 22.2
750.04 25.6
746.56 39.6
748.57 51.6

4928+50

R/L

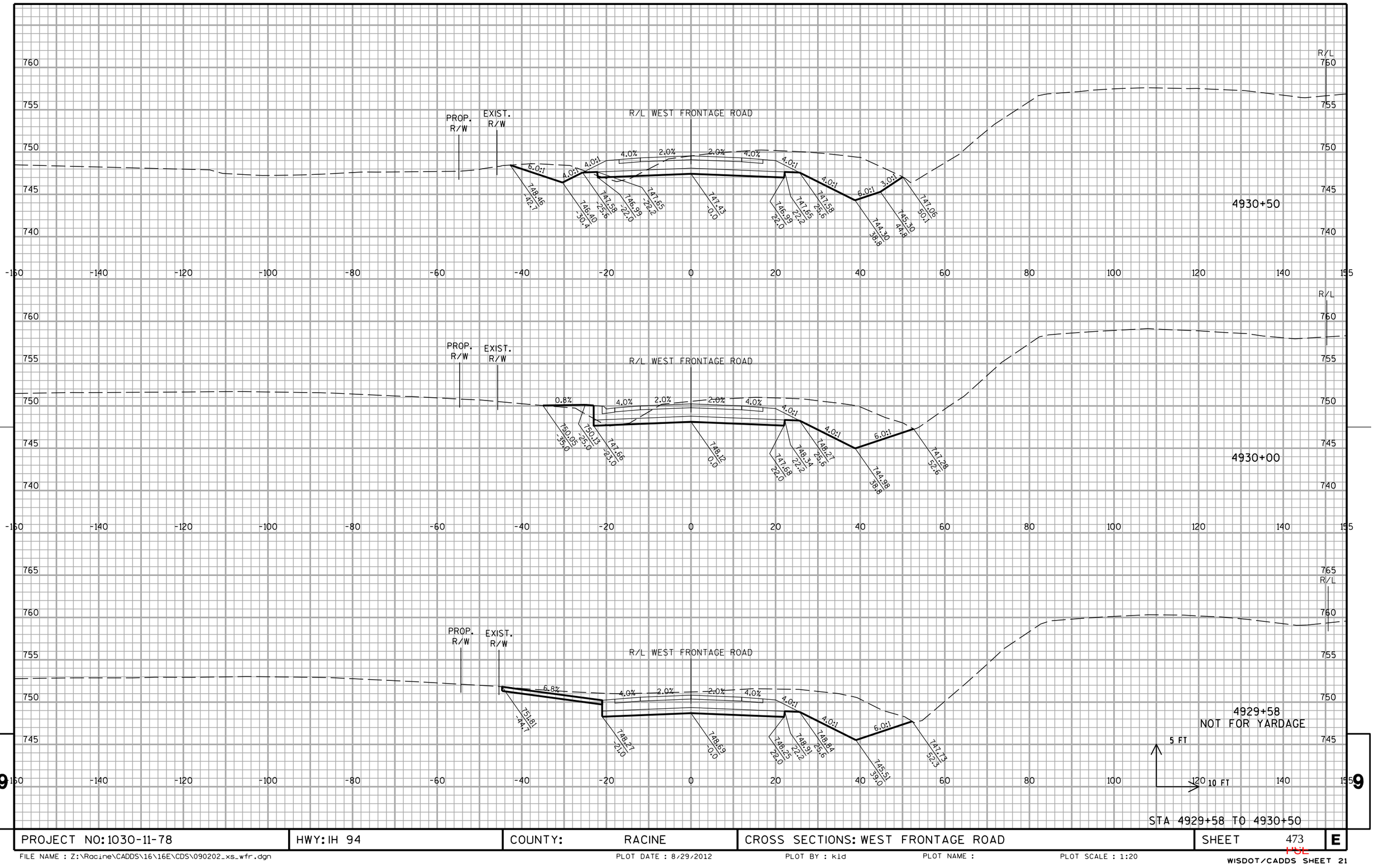
5 FT
10 FT

STA 4928+50 TO 4929+50

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 472	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : | PLOT SCALE : 1:20

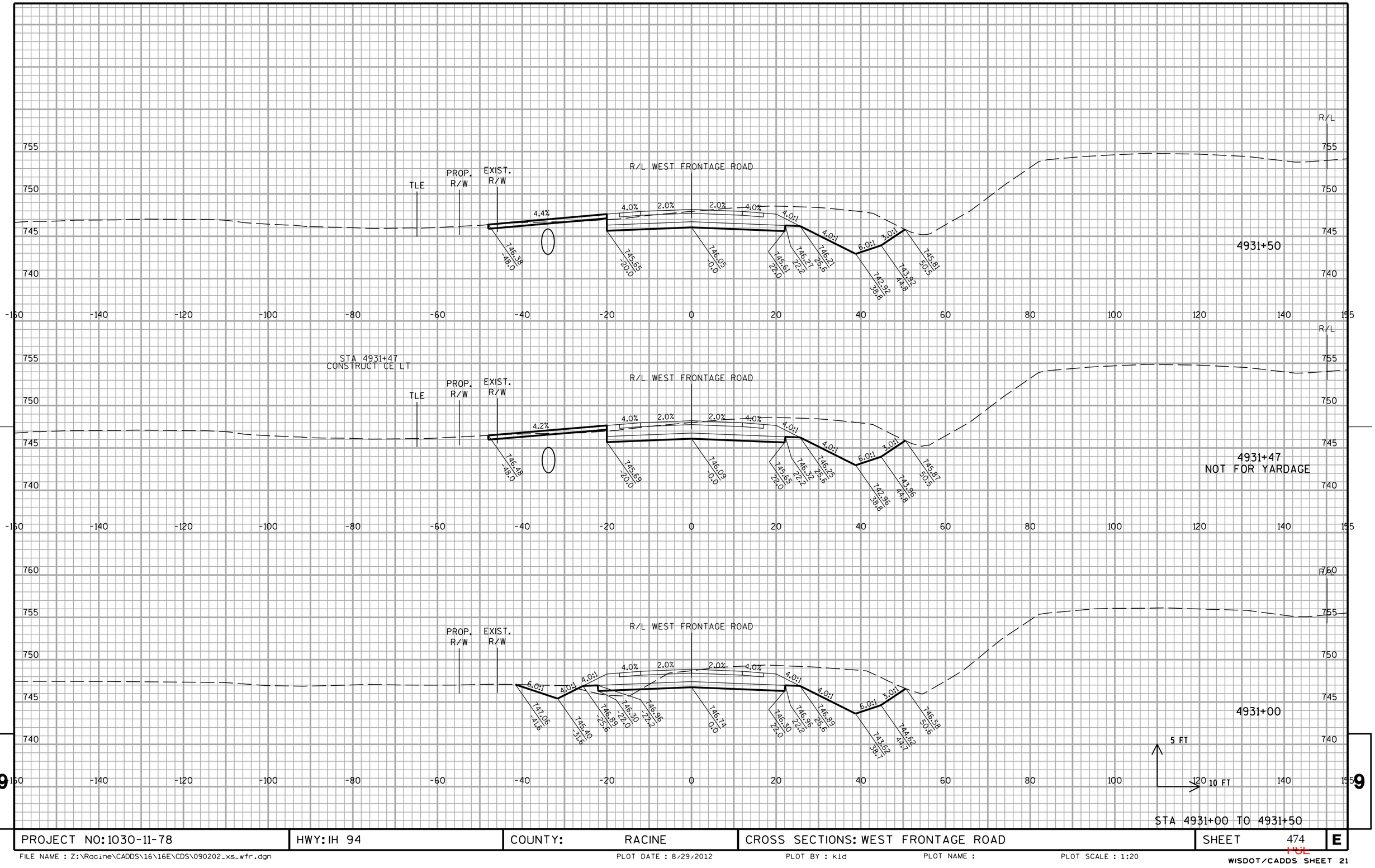
10301177-00008RDAPERM



PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 473	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

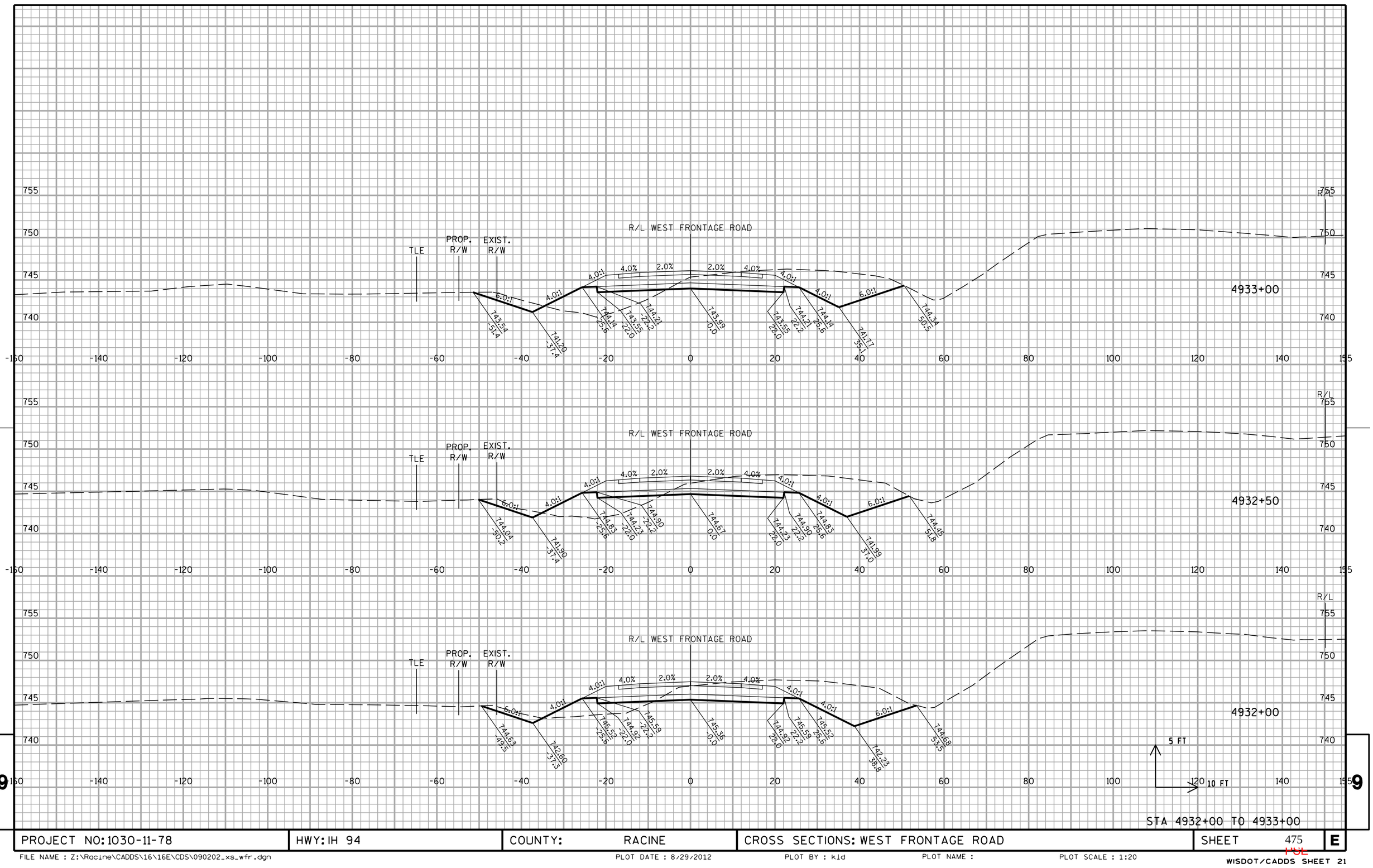


STA 4931+00 TO 4931+50

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 474	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

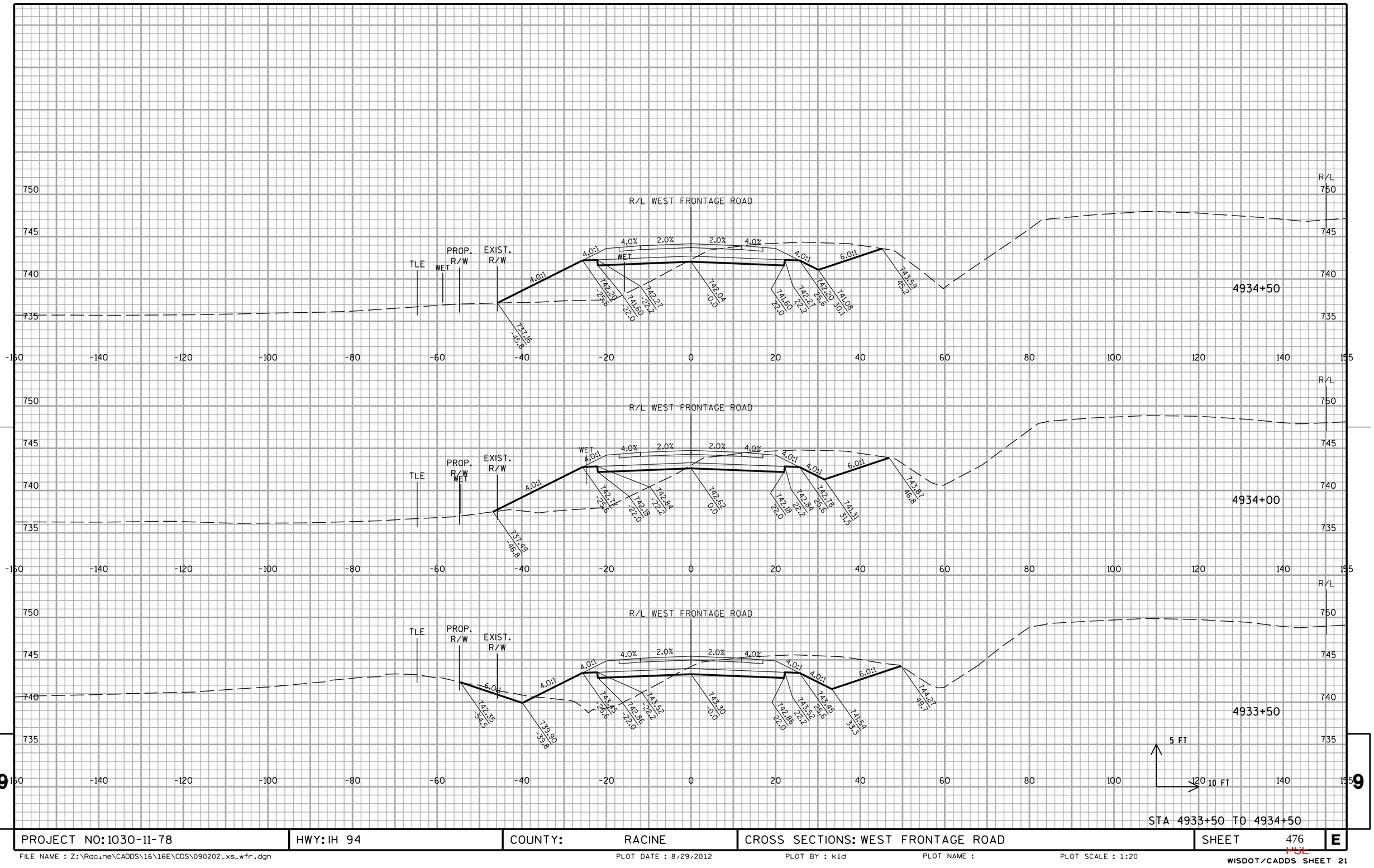


STA 4932+00 TO 4933+00

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 475	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : | PLOT SCALE : 1:20

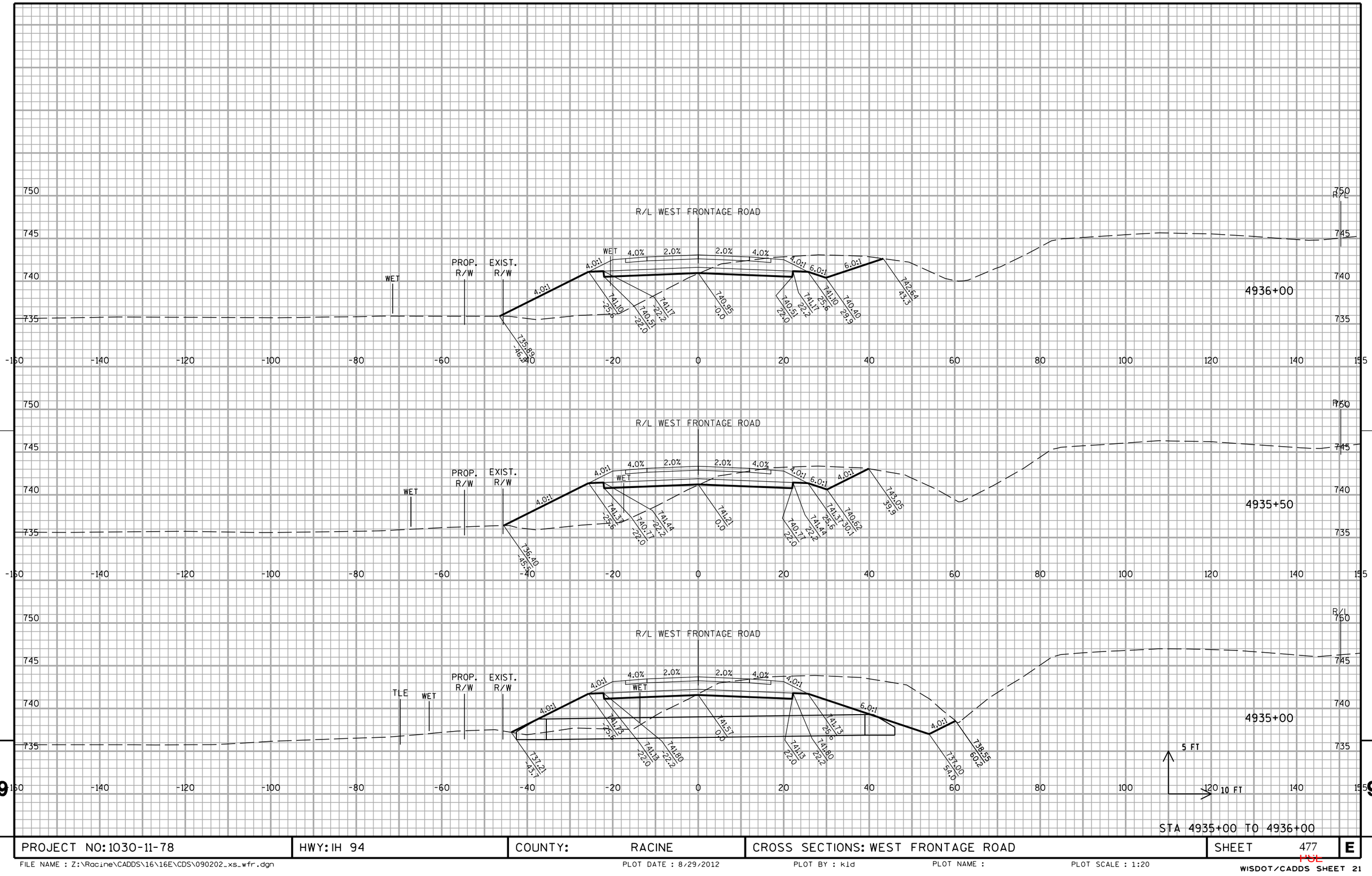
WISDOT/CADDS SHEET 21



STA 4933+50 TO 4934+50

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 476	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : | PLOT SCALE : 1:20



STA 4935+00 TO 4936+00

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 477	E

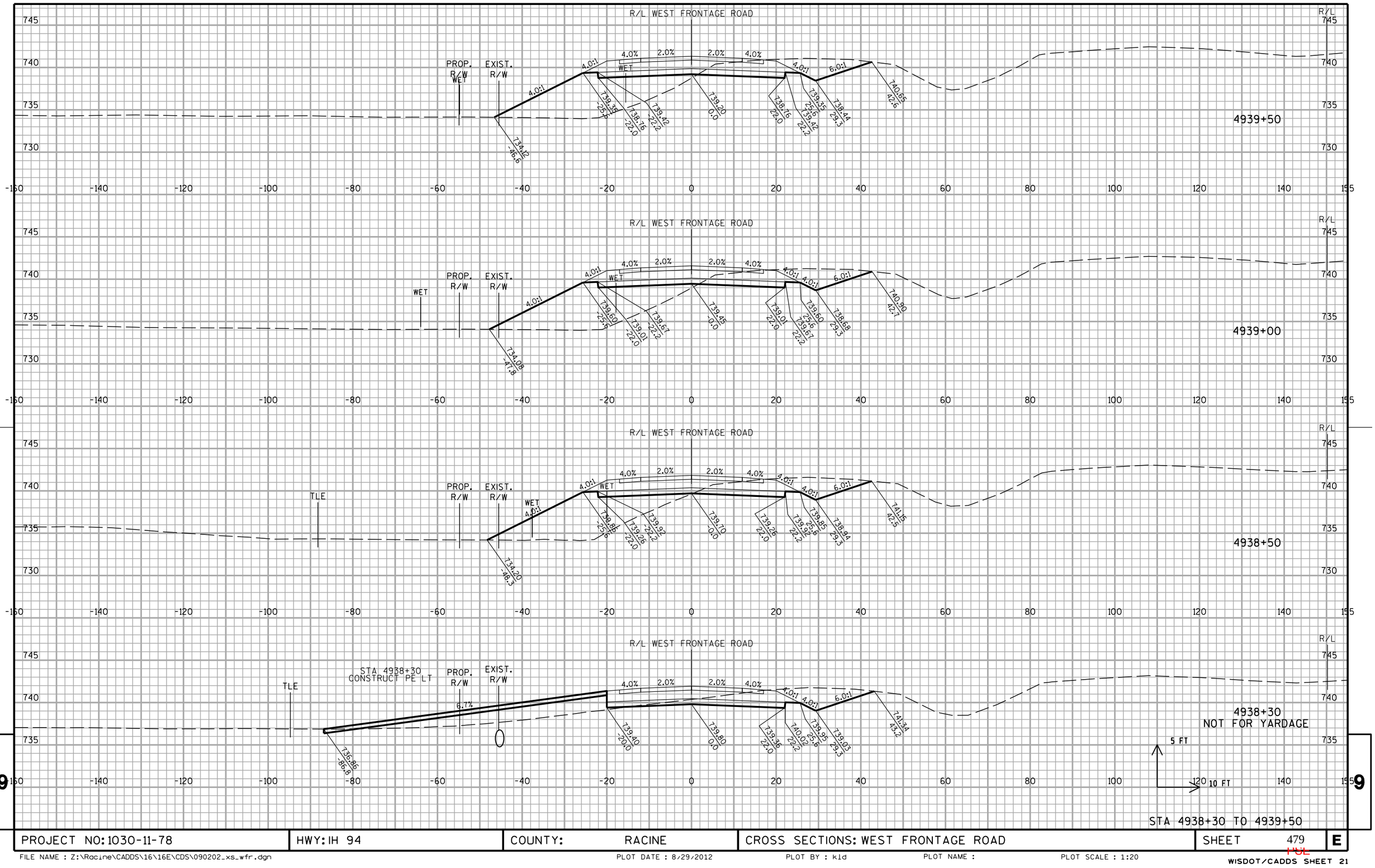
FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

10301177-00008RDAPERM

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 478	E

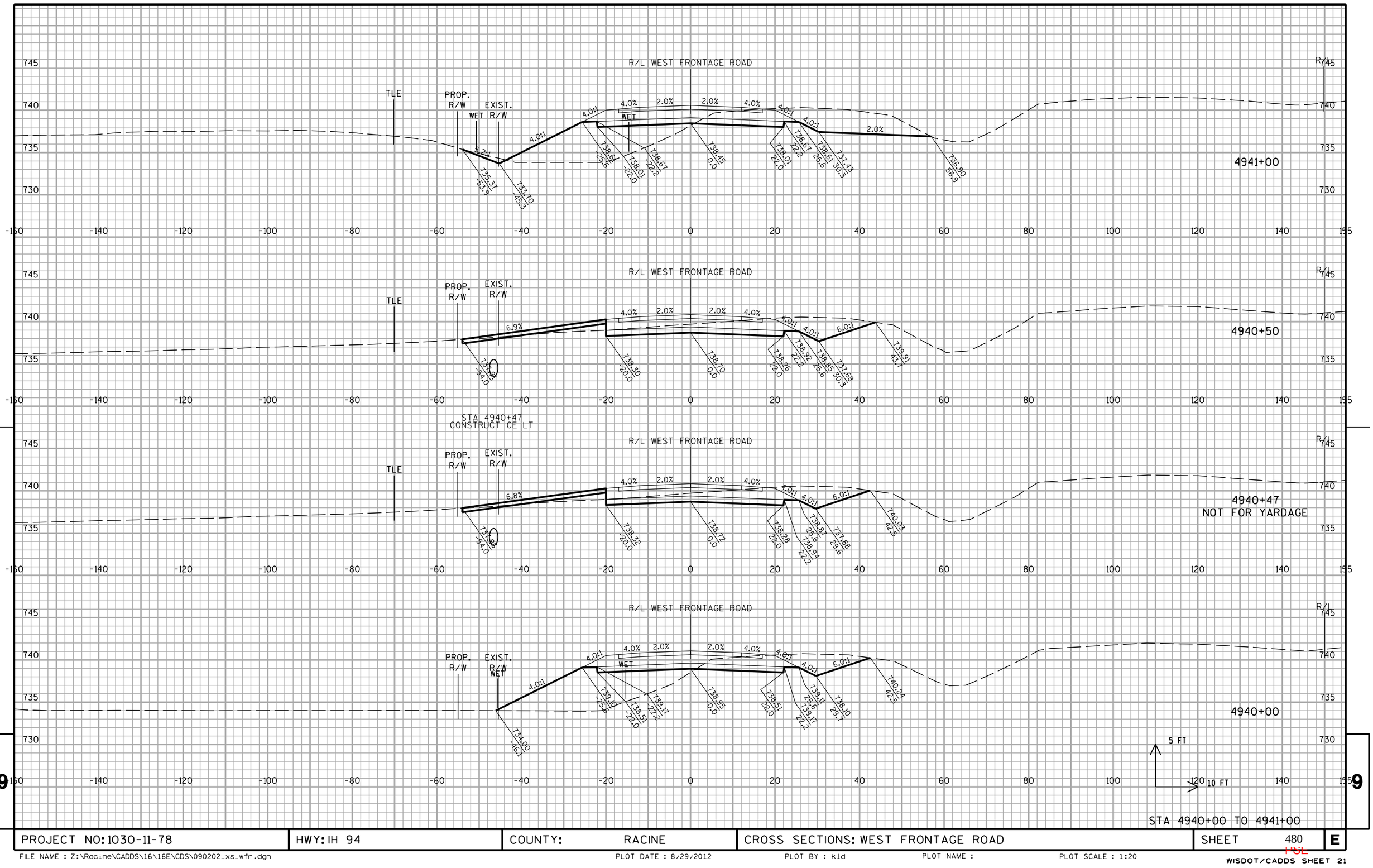
FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:20



PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 479	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



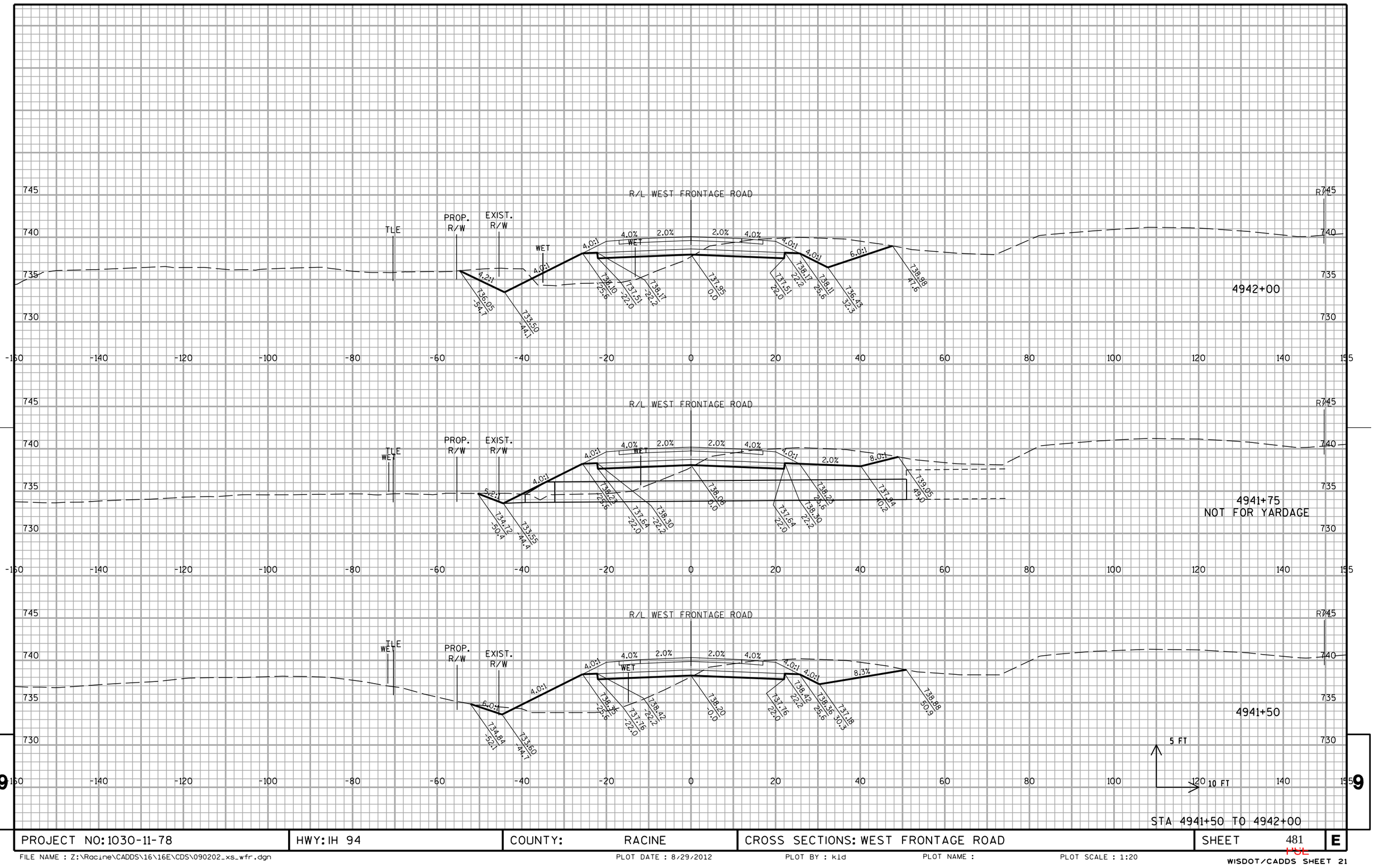
STA 4940+00 TO 4941+00

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 480	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : | PLOT SCALE : 1:20

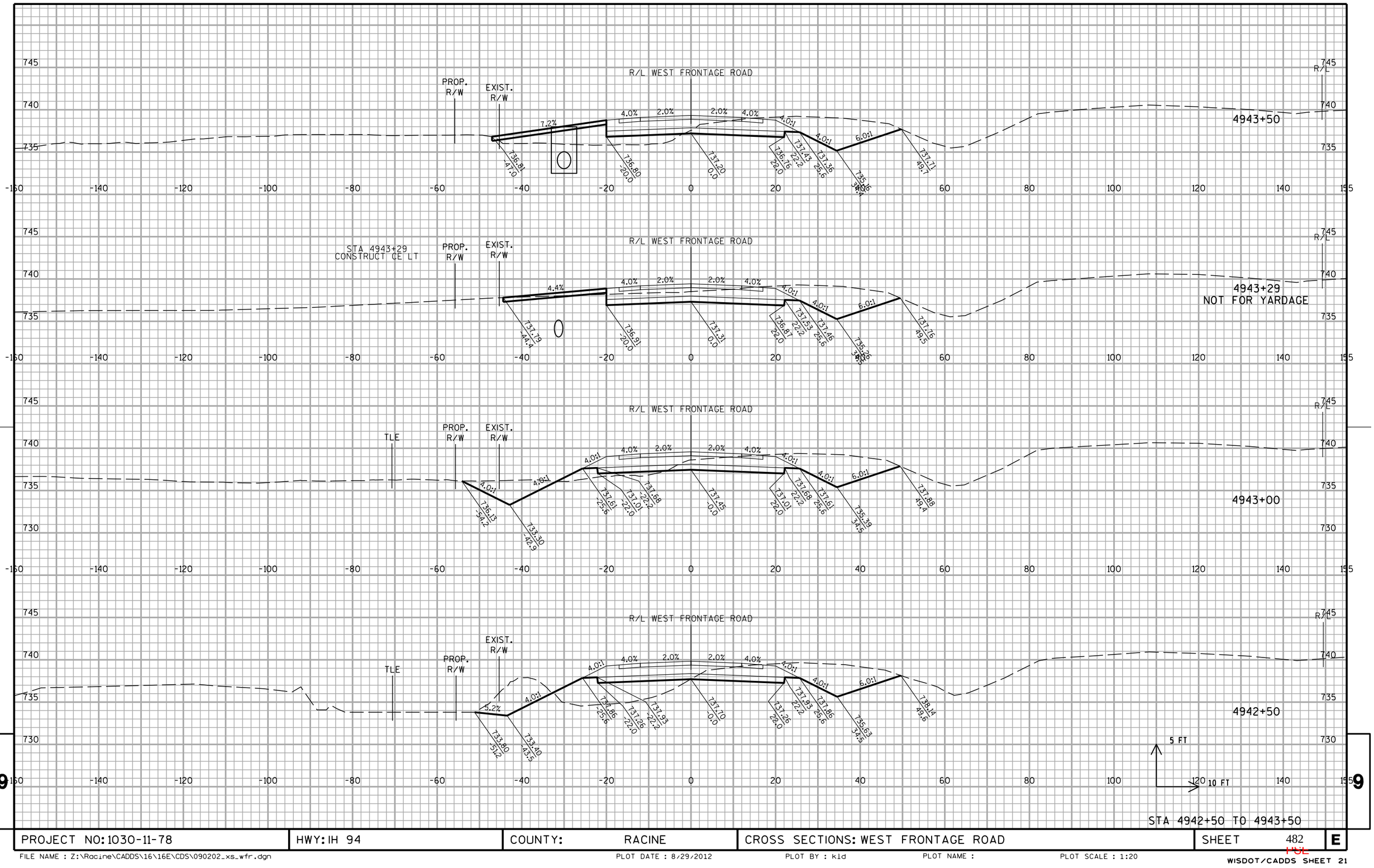
WISDOT/CADDS SHEET 21

9



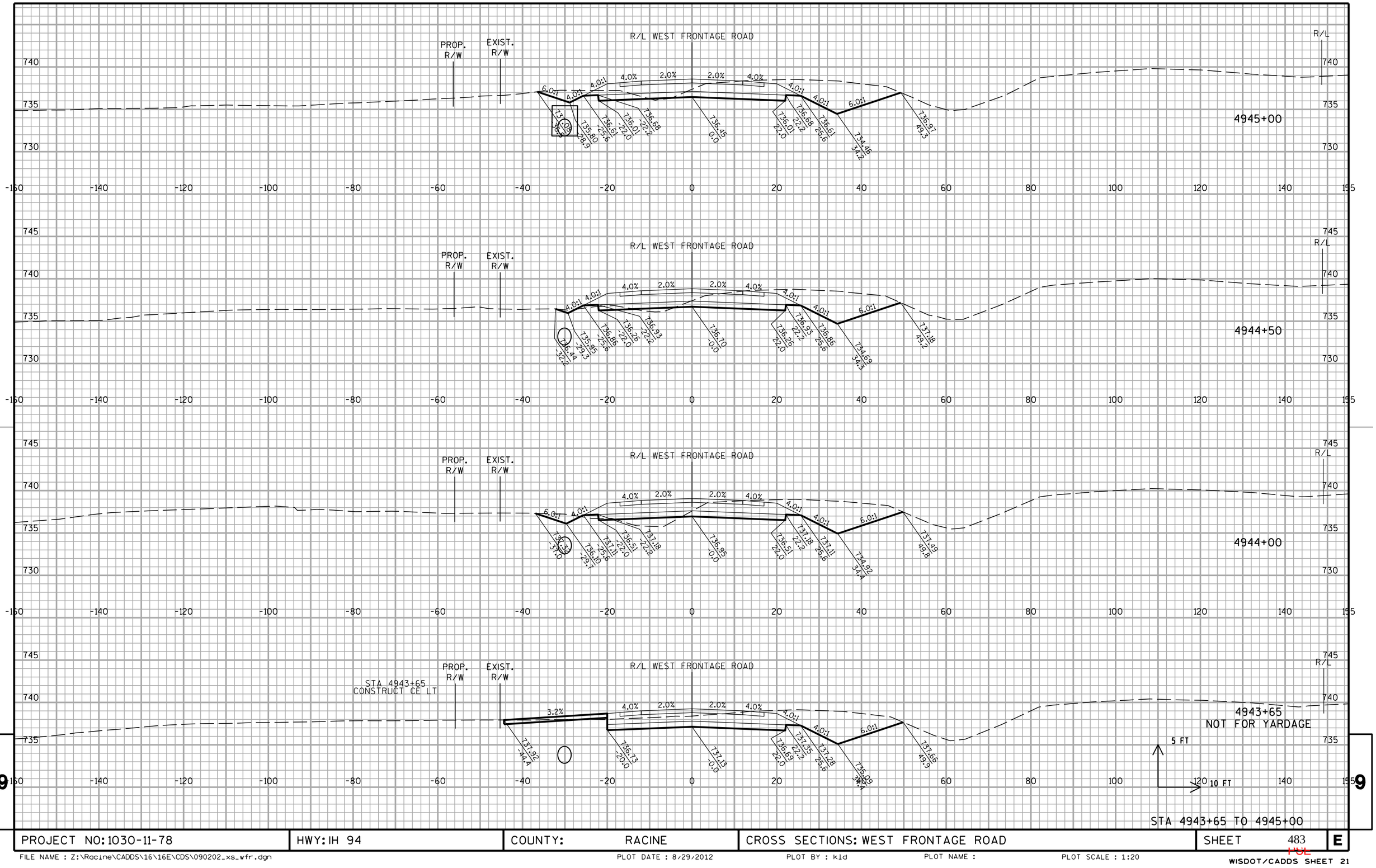
PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 481	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:20
WISDOT/CADDS SHEET 21



STA 4942+50 TO 4943+50

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 482	E

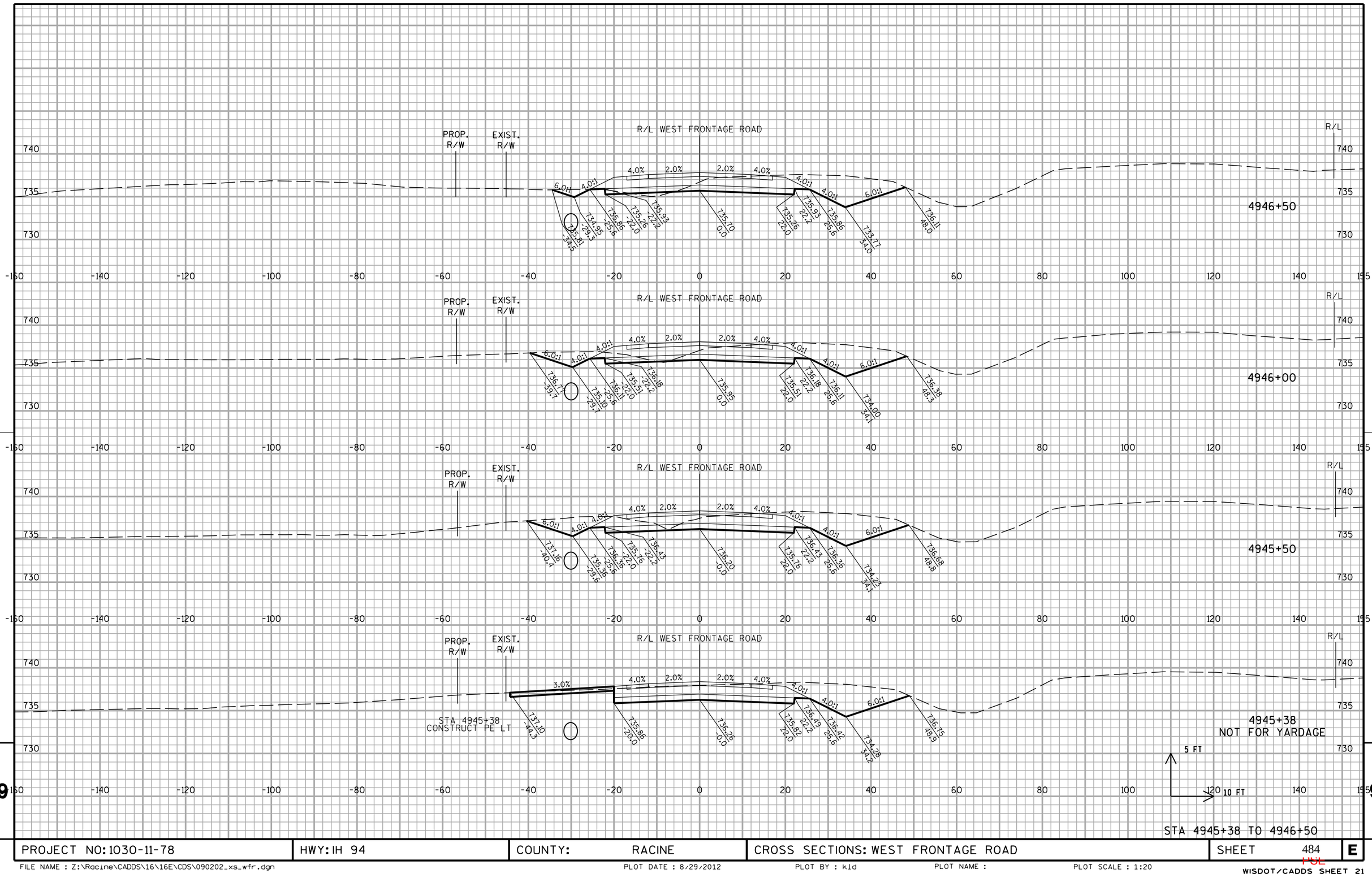


STA 4943+65 TO 4945+00

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 483	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

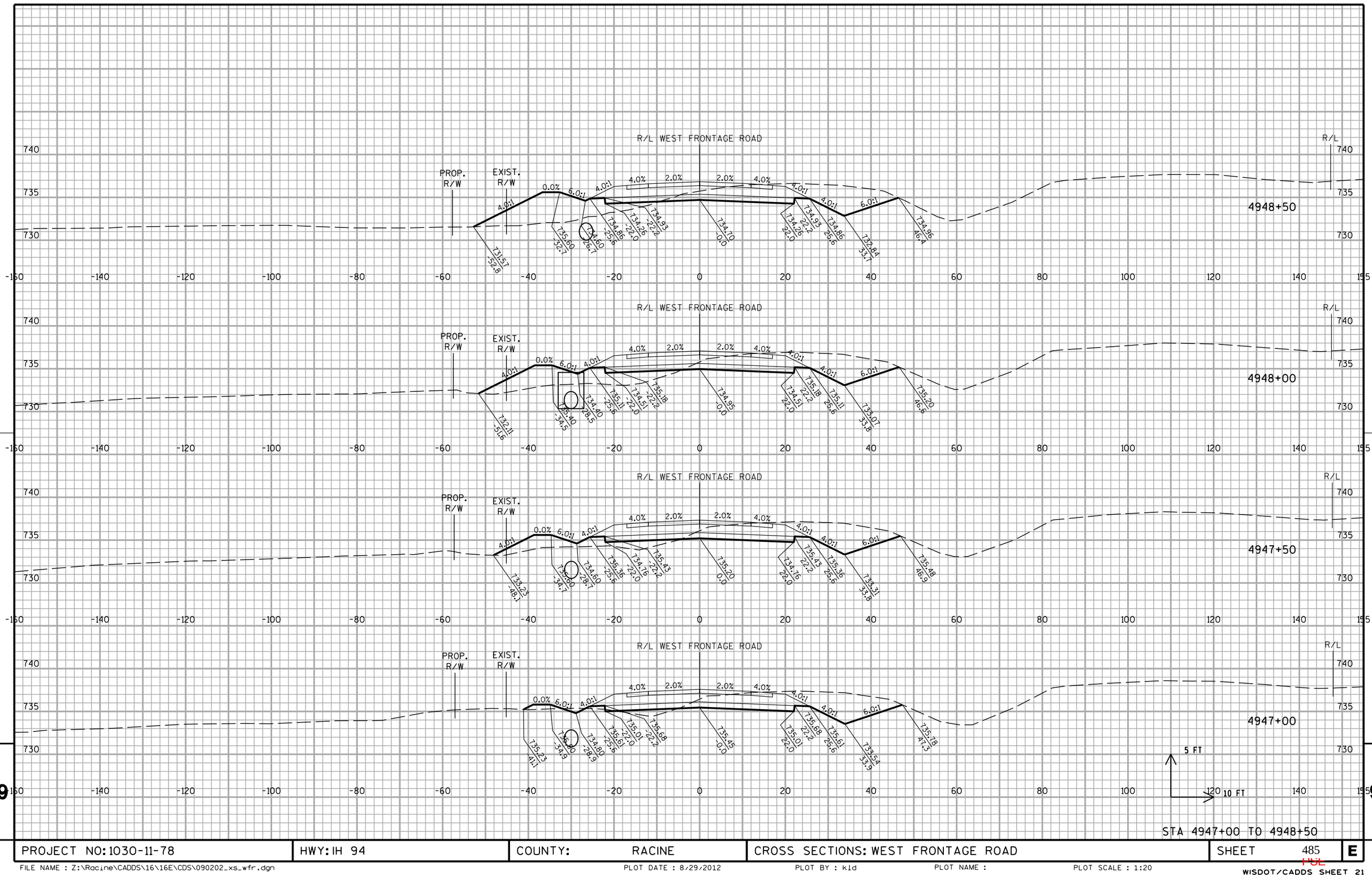


STA 4945+38 TO 4946+50

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 484	E

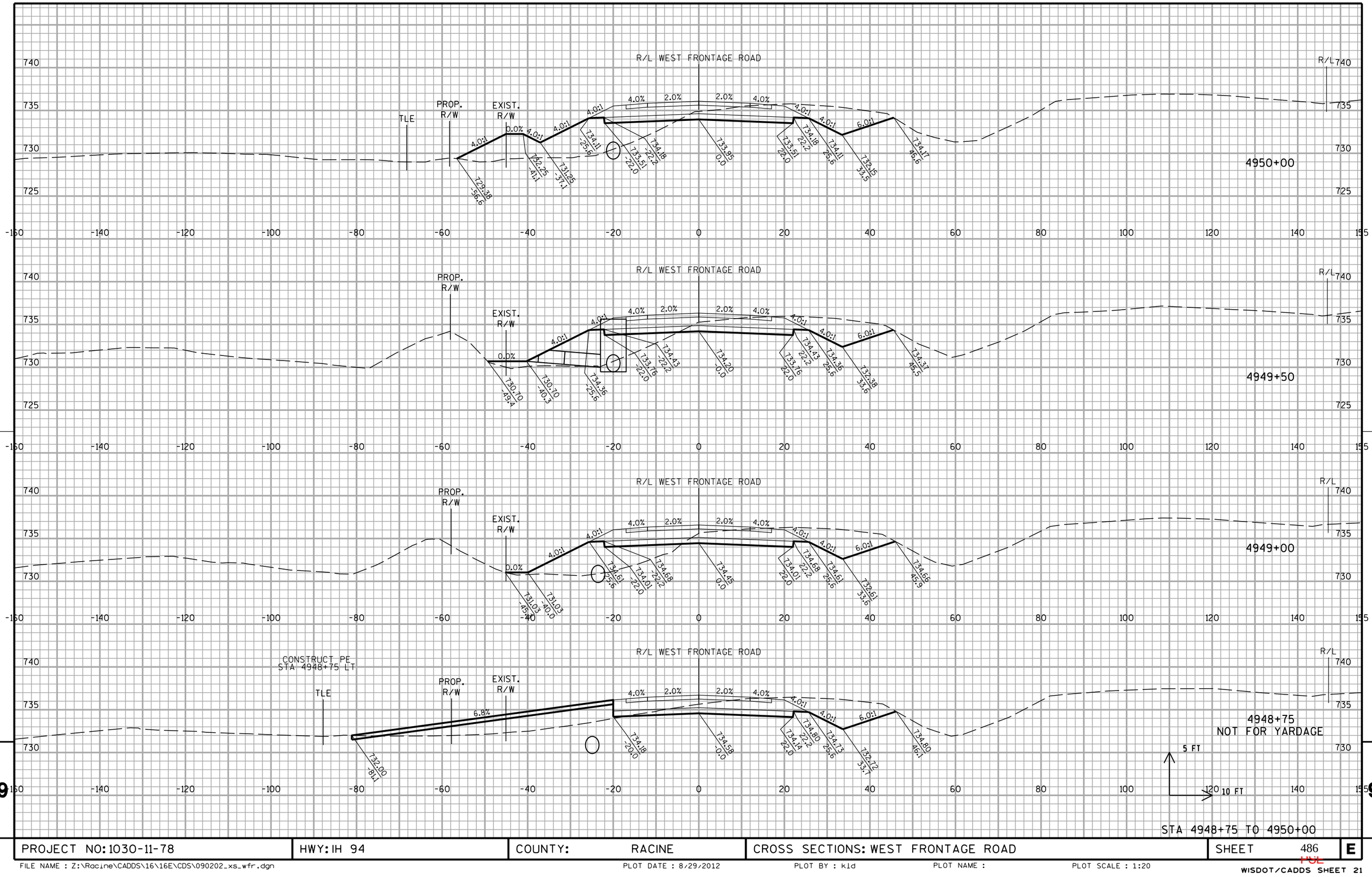
FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

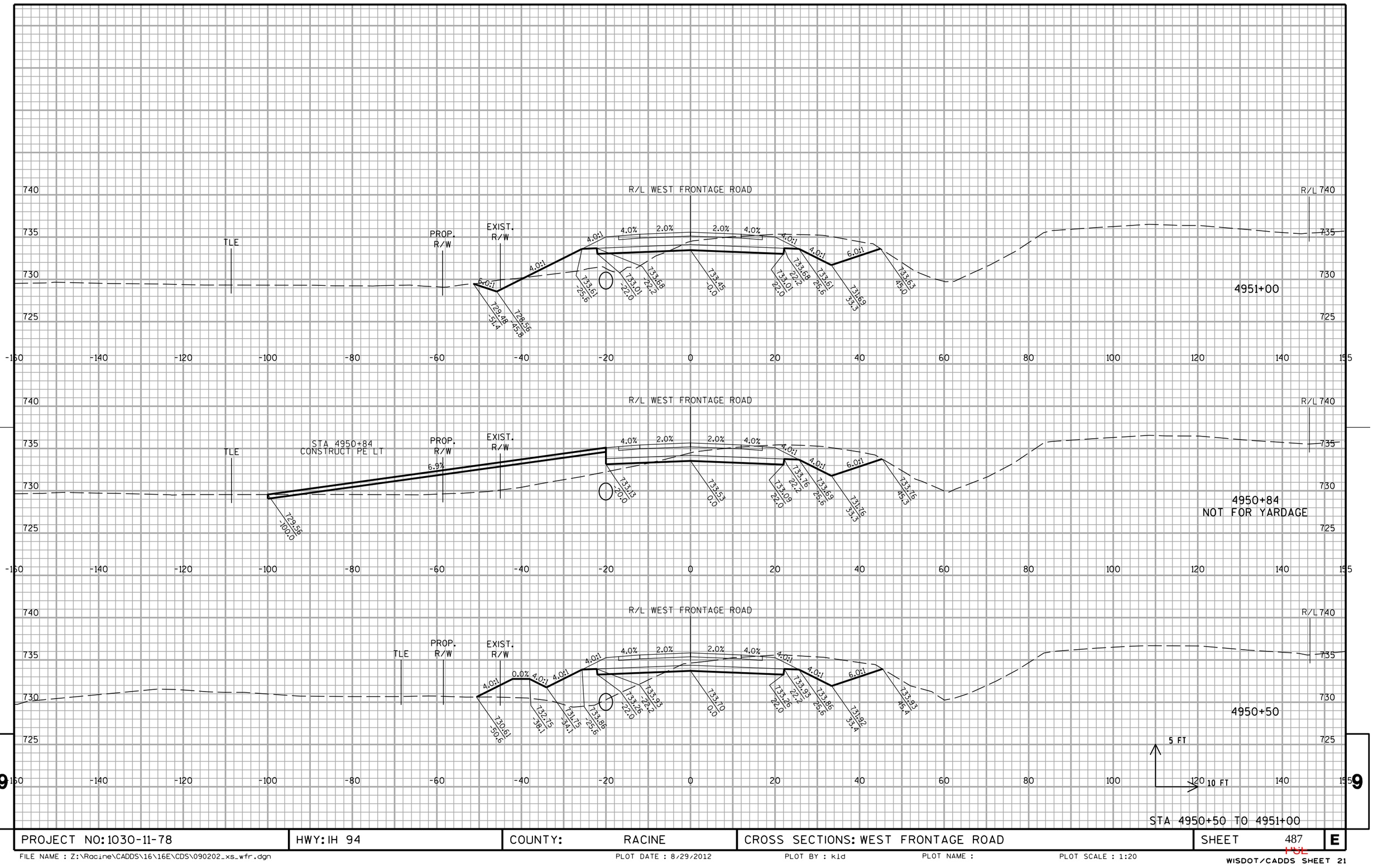


PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 485	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : | PLOT SCALE : 1:20

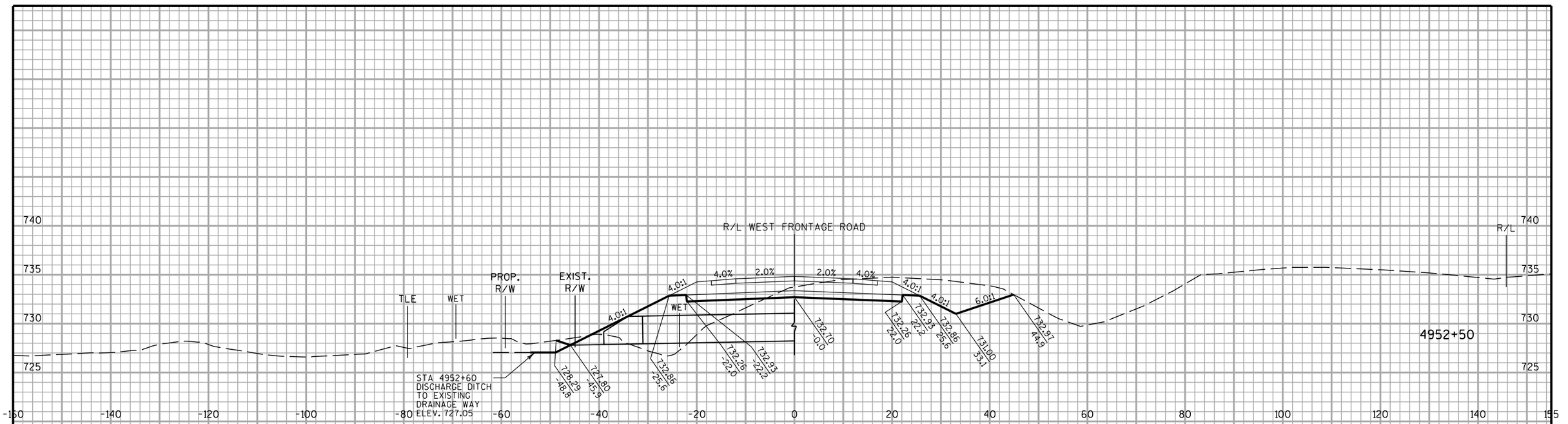


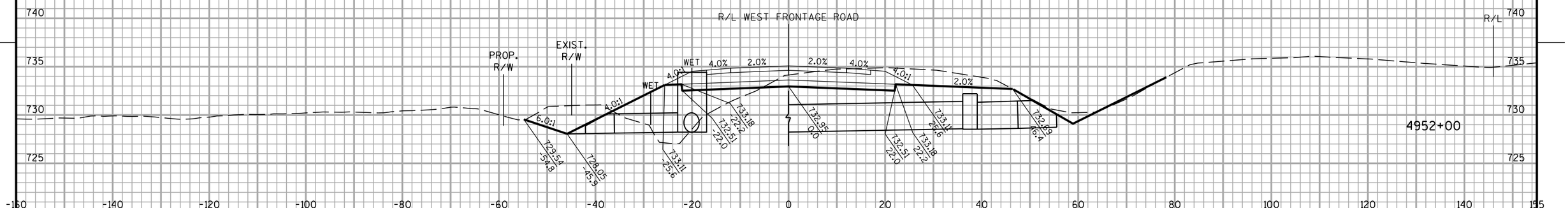
PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 486	E

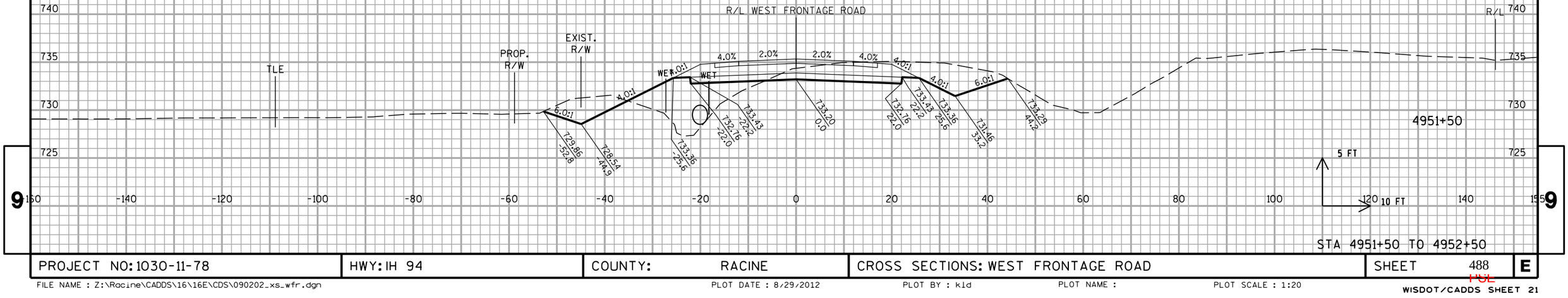


PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 487	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : | PLOT SCALE : 1:20







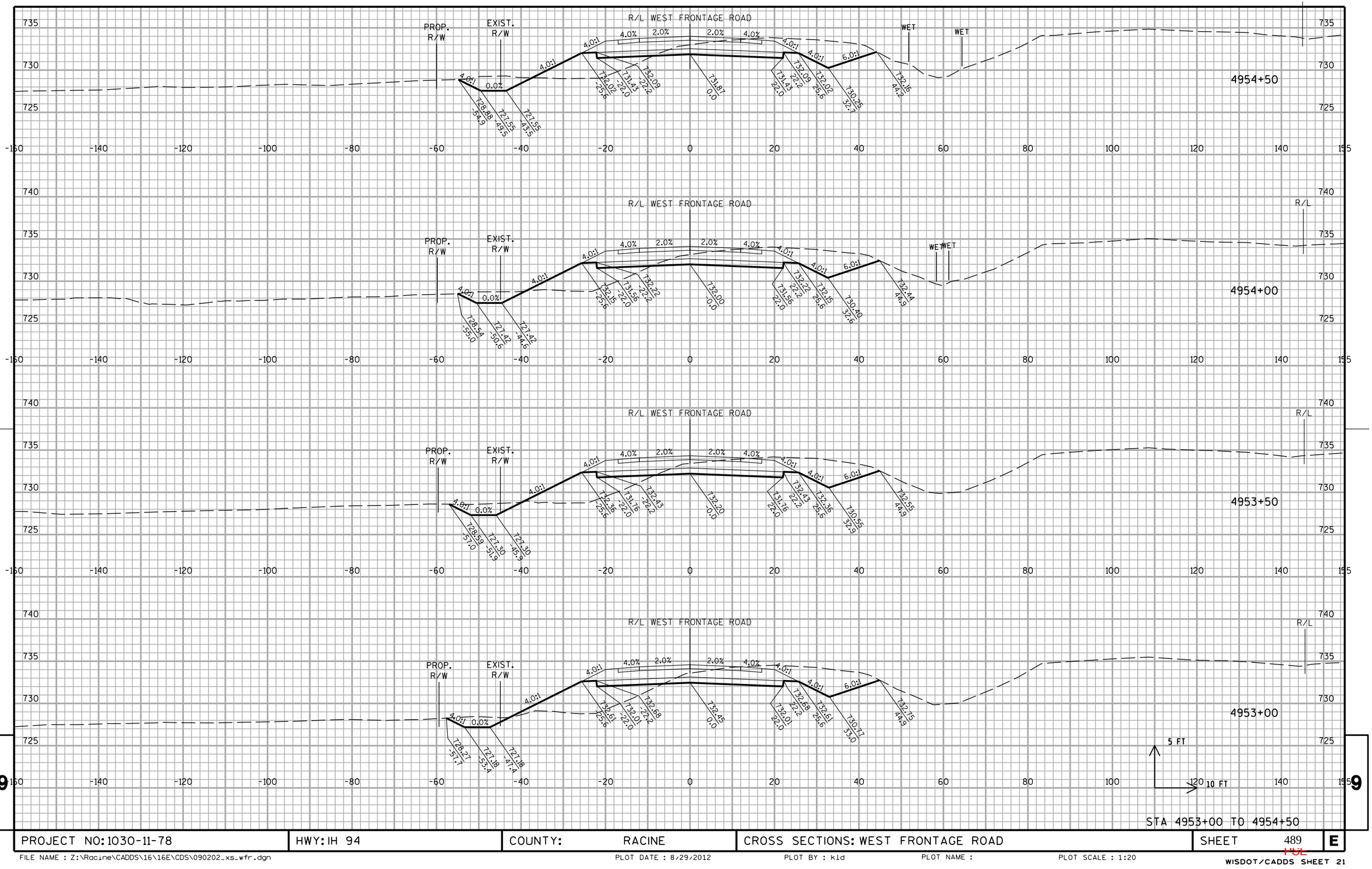
STA 4951+50 TO 4952+50

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 488	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

10301177-00008RDAPERM

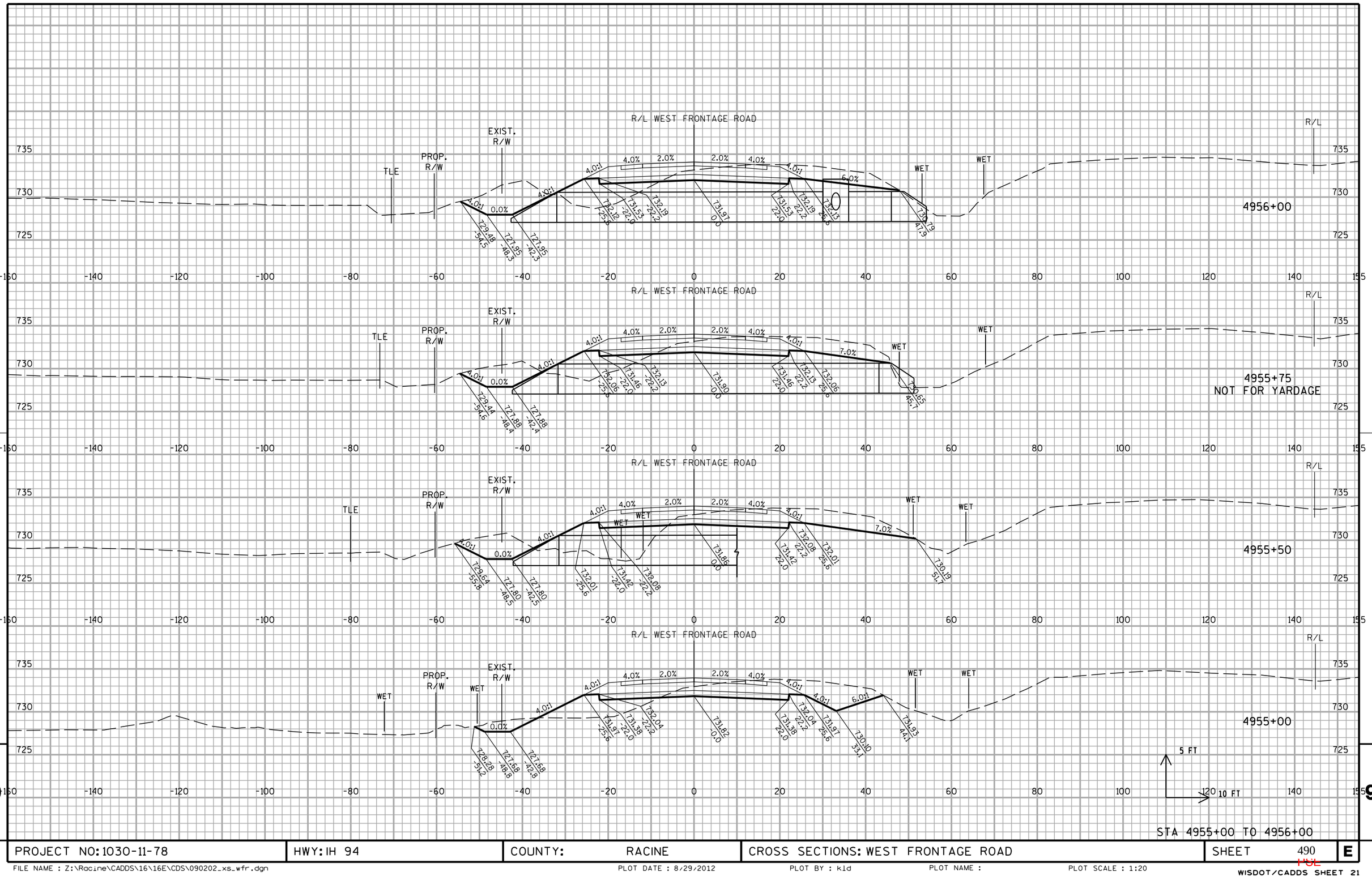


STA 4953+00 TO 4954+50

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 489	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : | PLOT SCALE : 1:20

10301177-00008RDAPERM



STA 4955+00 TO 4956+00

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 490	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

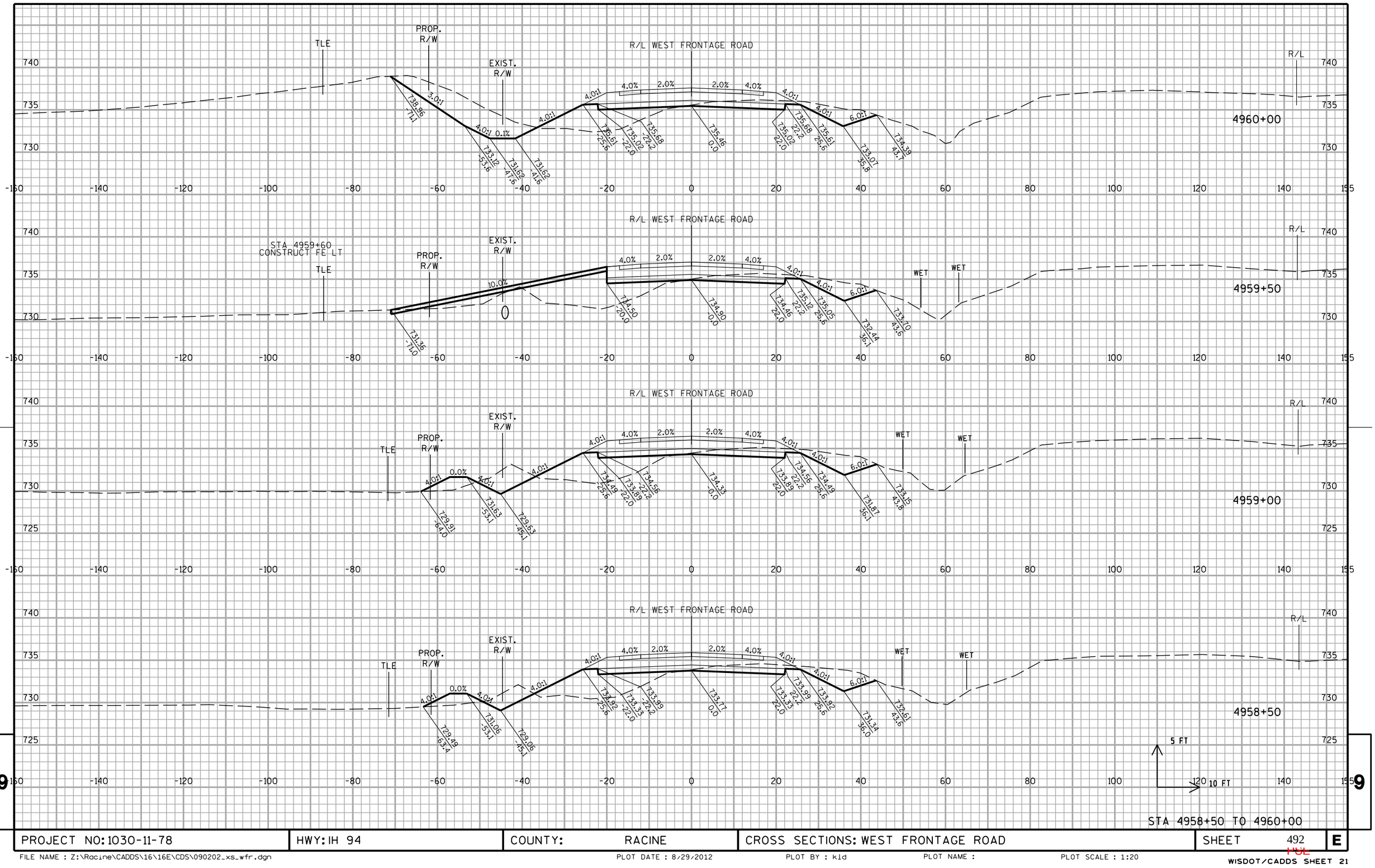
STA 4956+50 TO 4958+00

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 491	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

10301177-00008RDAPERM

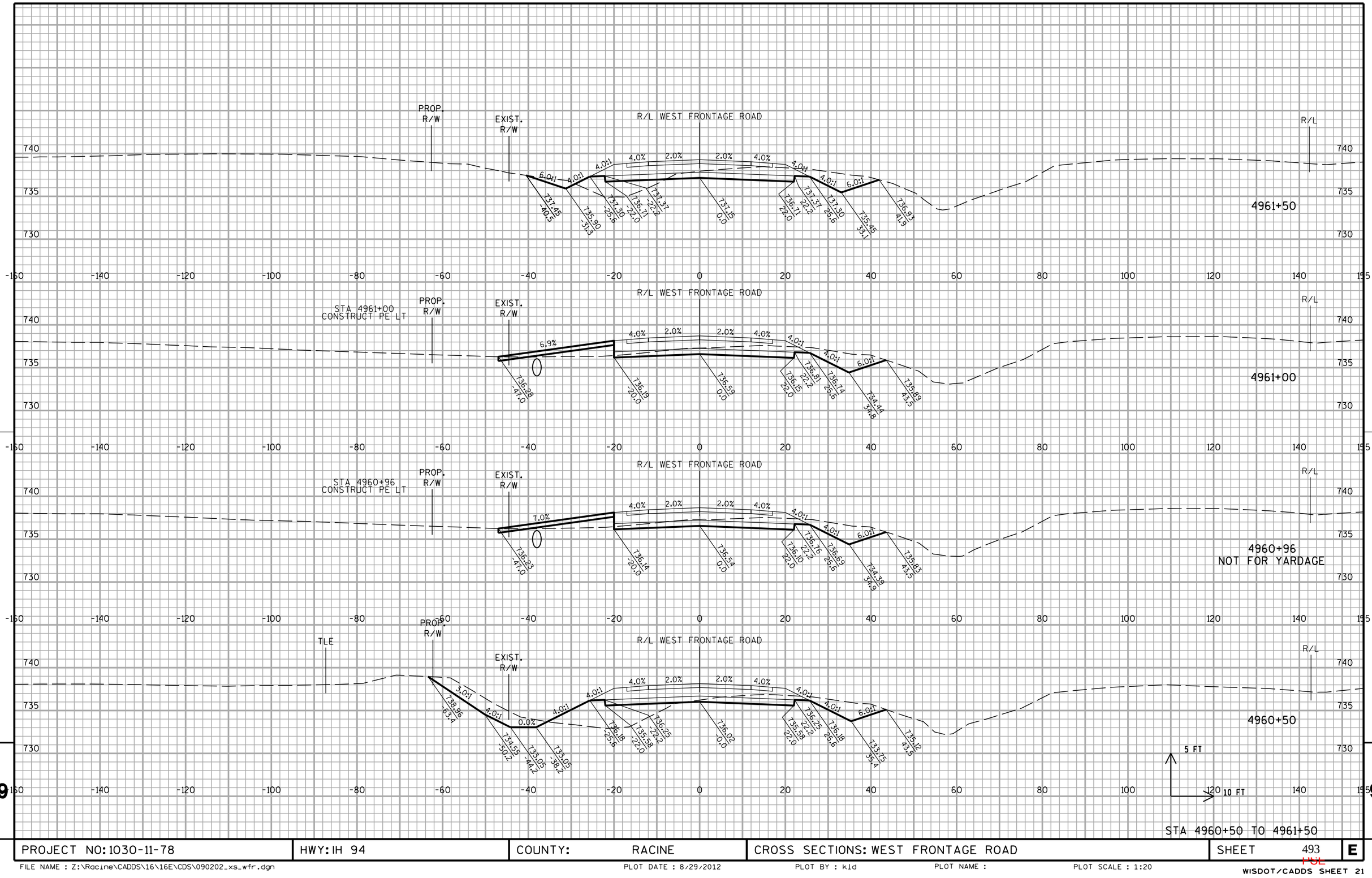


STA 4958+50 TO 4960+00

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 492	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

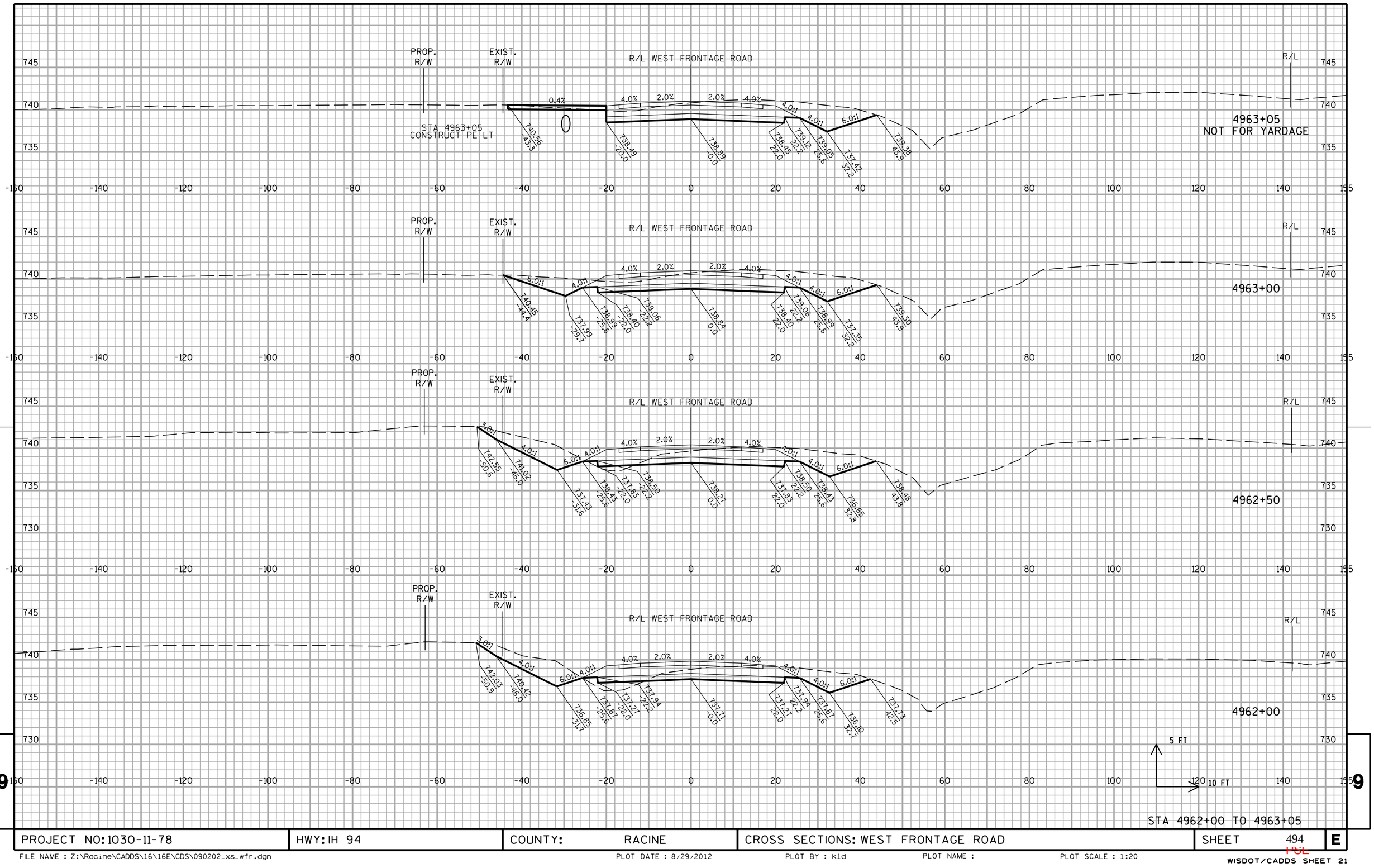


PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 493	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

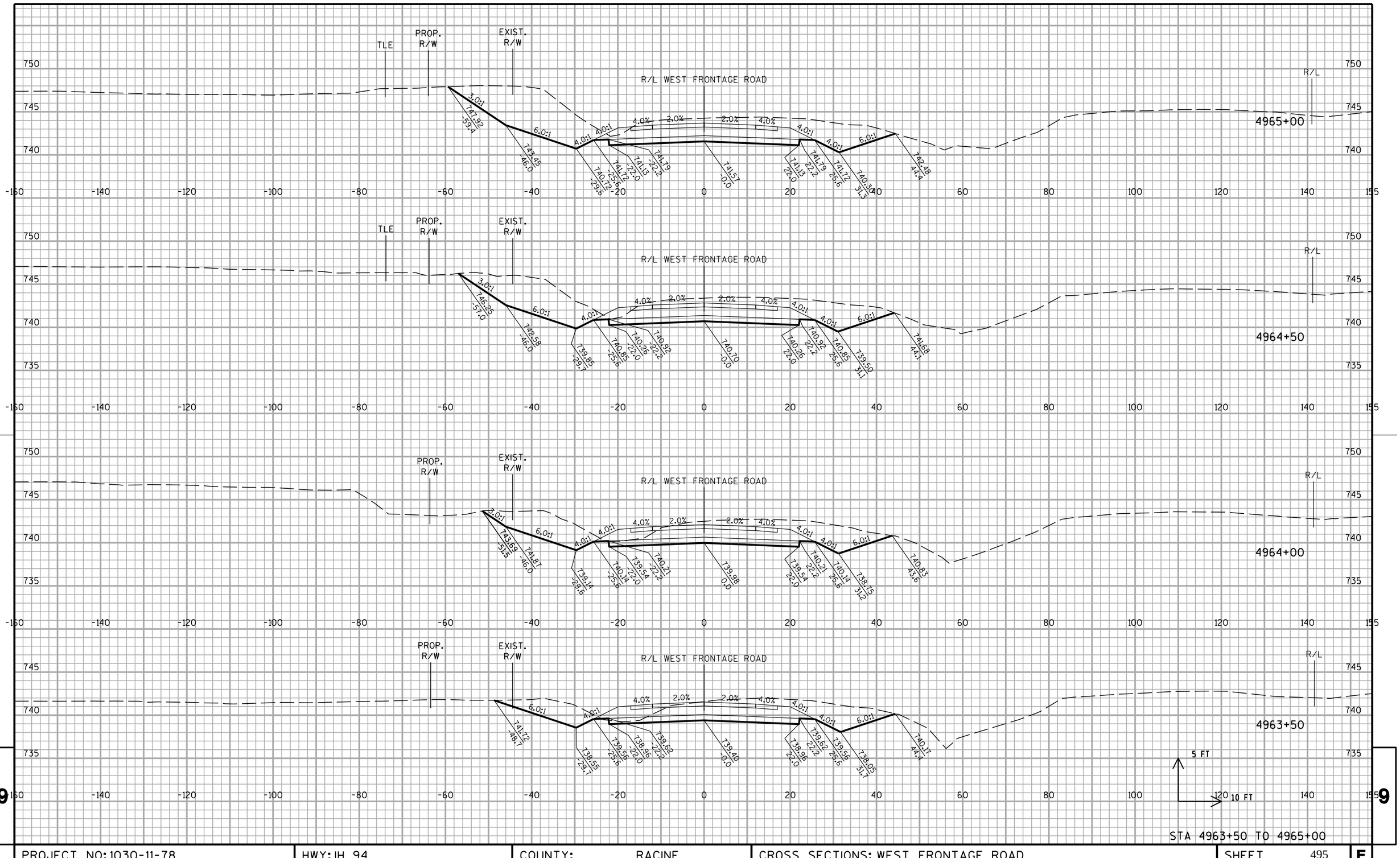
10301177-00008RDAPERM



PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 494	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 495	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

10301177-00008RDAPERM

TLE
CONSTRUCT CE
4966+55 LT
PROP.
R/W
EXIST.
R/W
R/L WEST FRONTAGE ROAD
R/L
3.3%
4.0%
2.2%
2.2%
2.2%
4.0:1
4.0:1
4.0:1
6.0:1
749.07
-90.0
744.78
-20.0
745.22
-0.0
745.71
22.1
746.38
22.2
746.45
25.4
743.46
37.3
744.84
45.6
4966+55
NOT FOR YARDAGE

STA 4966+55
CONSTRUCT CE LT
TLE
PROP.
R/W
EXIST.
R/W
R/L WEST FRONTAGE ROAD
R/L
3.3%
4.0%
2.0%
2.0%
2.0%
4.0:1
4.0:1
4.0:1
6.0:1
748.94
-90.0
744.68
-20.0
745.08
0.0
745.52
22.1
746.19
22.3
746.26
25.4
743.35
37.0
744.79
45.5
4966+50

TLE
PROP.
R/W
EXIST.
R/W
R/L WEST FRONTAGE ROAD
R/L
3.0:1
6.0:1
4.0:1
4.0:1
4.0%
2.0%
0.0%
0.0%
4.0:1
4.0:1
6.0:1
747.96
-55.0
745.63
-46.0
743.98
-22.2
743.76
0.0
744.43
22.3
744.43
25.8
742.24
34.6
743.92
44.7
4966+00

TLE
PROP.
R/W
EXIST.
R/W
R/L WEST FRONTAGE ROAD
R/L
3.0:1
6.0:1
4.0:1
4.0:1
4.0%
2.0%
2.0%
2.0%
4.0:1
4.0:1
6.0:1
748.04
-55.7
744.47
-46.0
742.81
-22.2
742.59
0.0
742.81
22.3
742.73
26.3
741.14
32.1
743.09
44.4
4965+50

5 FT
10 FT

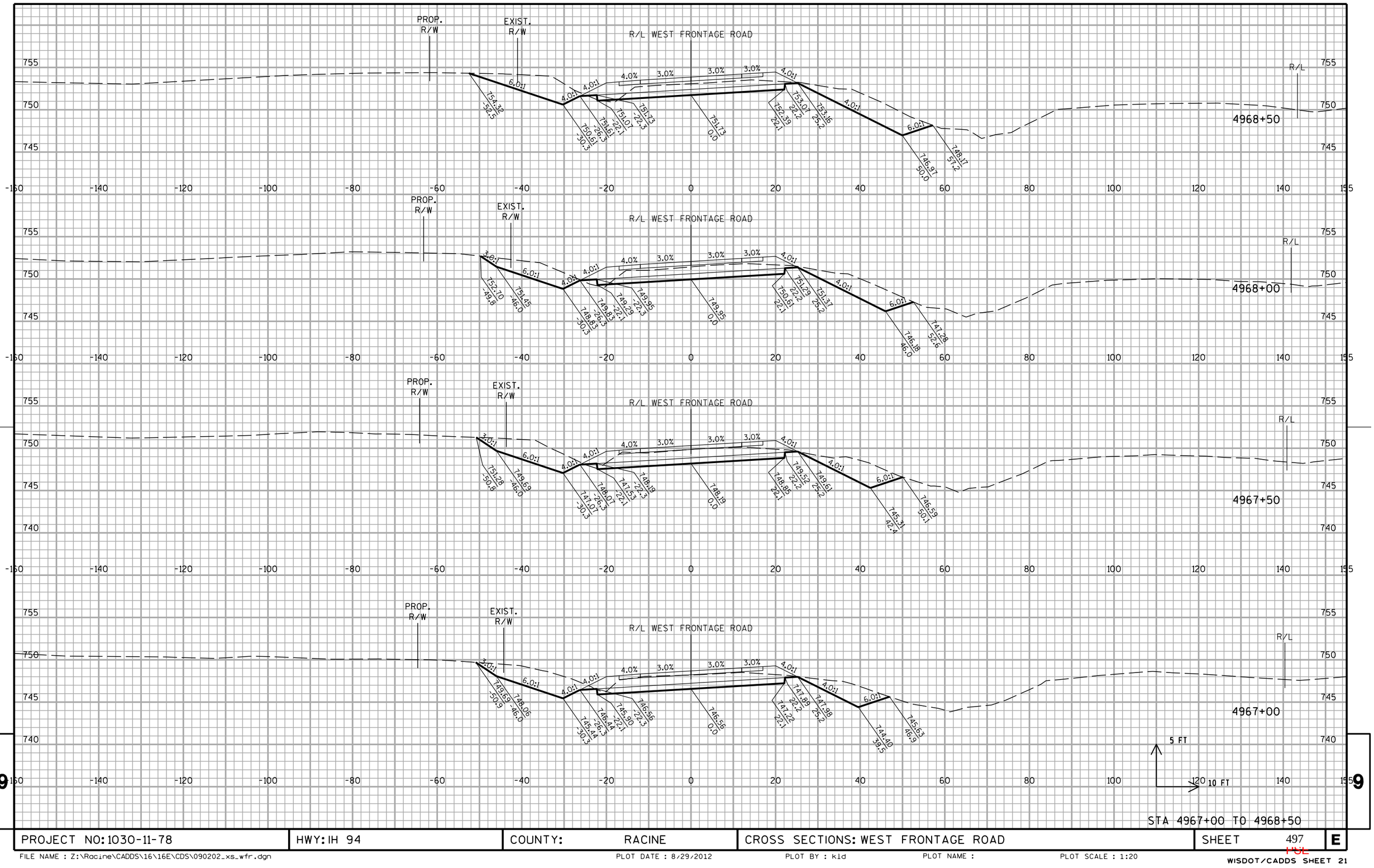
STA 4965+50 TO 4966+55

9 9

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 496	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:20

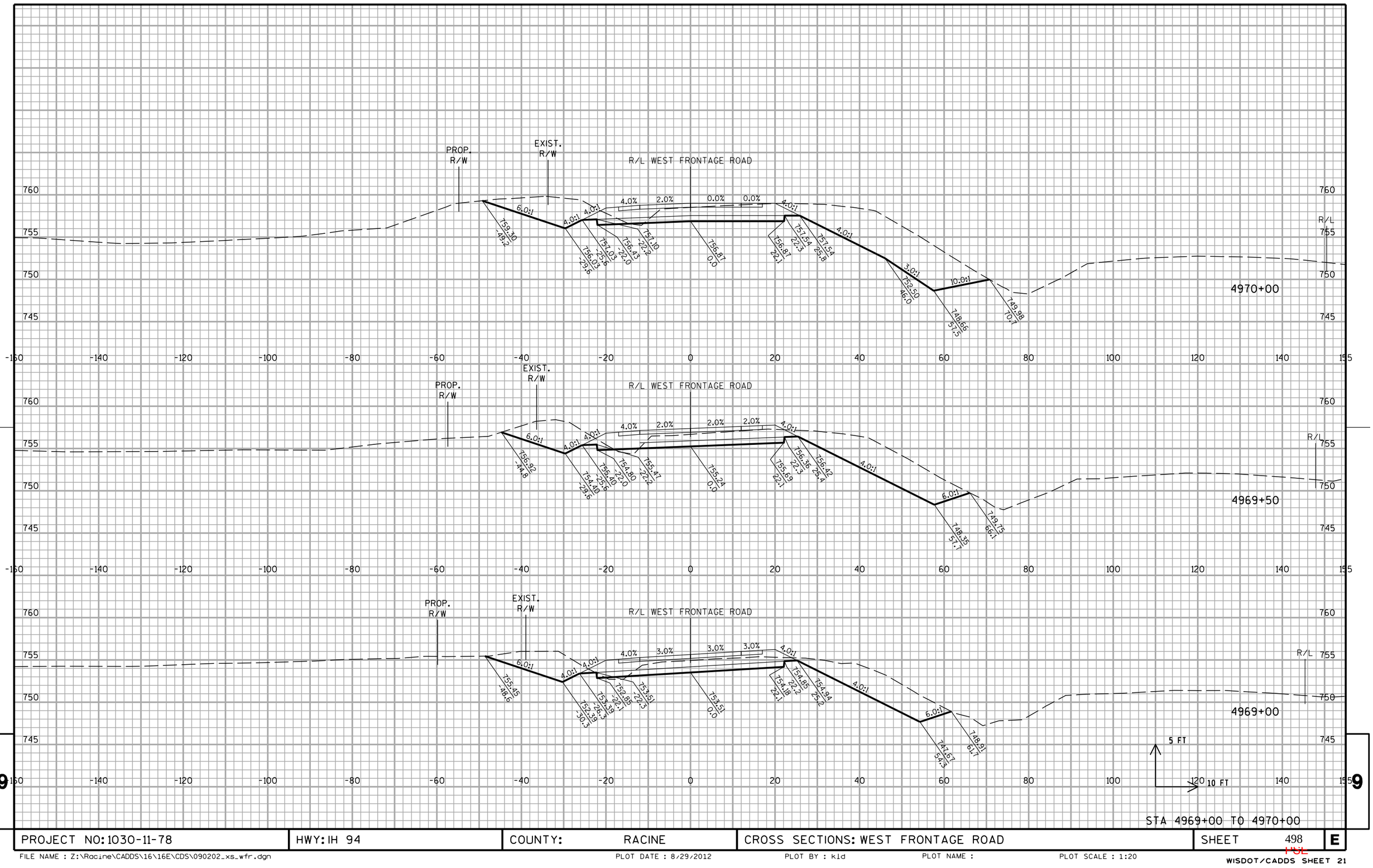
10301177-00008RDAPERM



PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 497	E

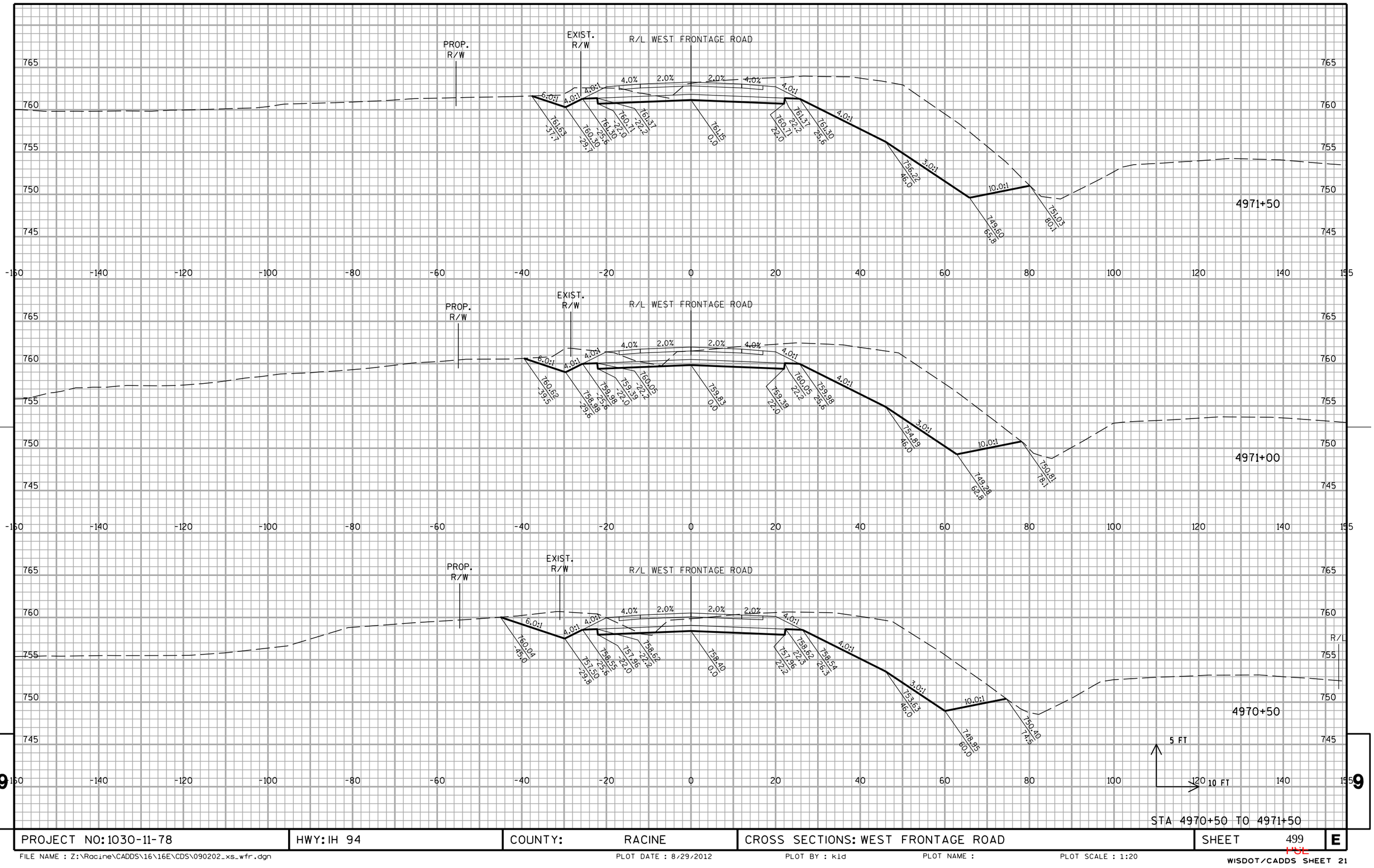
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WISDOT/CADDS SHEET 21



PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 498	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : | PLOT SCALE : 1:20



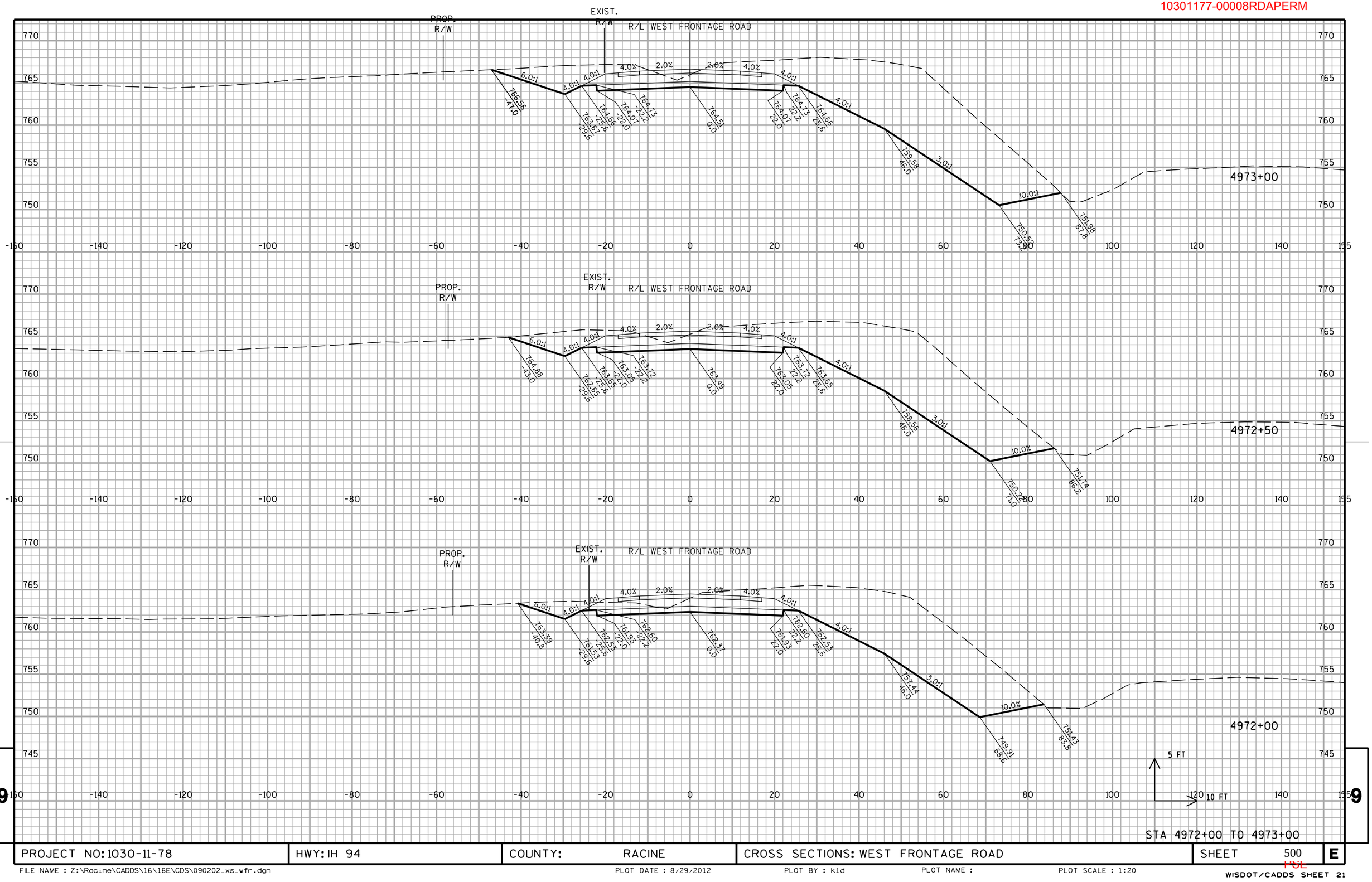
STA 4970+50 TO 4971+50

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 499	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

10301177-00008RDAPERM



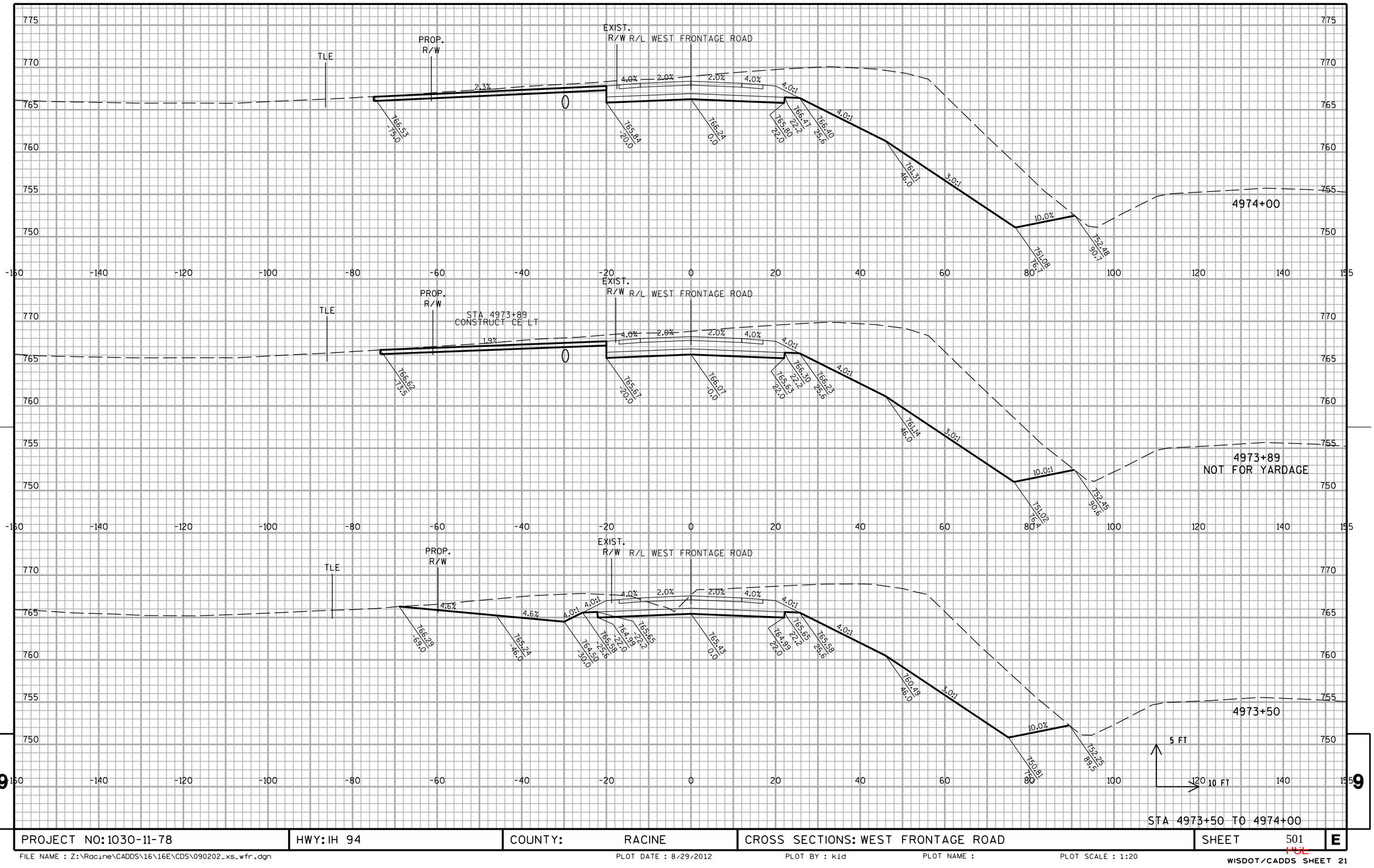
STA 4972+00 TO 4973+00

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 500	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

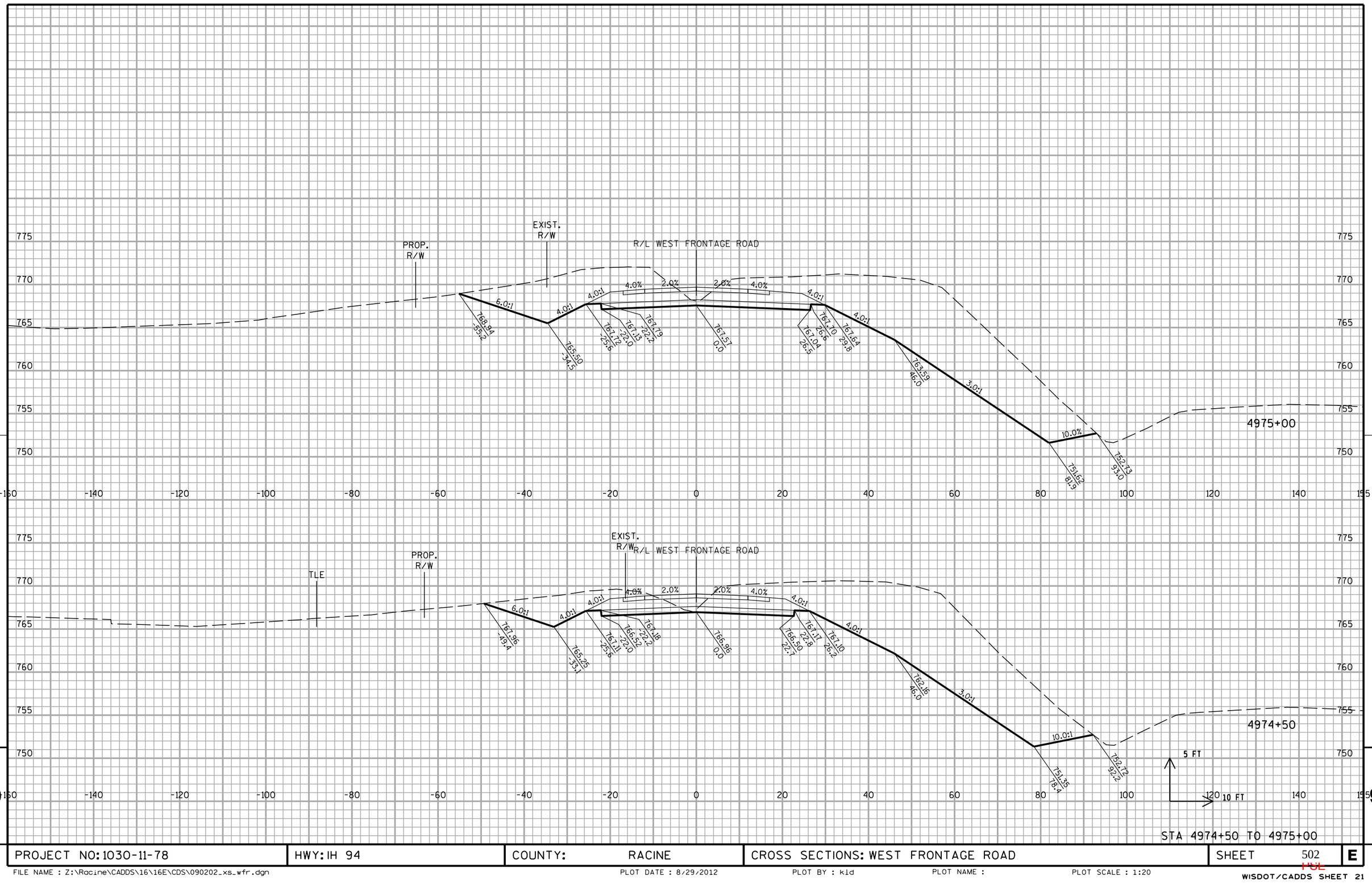
10301177-00008RDAPERM



PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 501	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

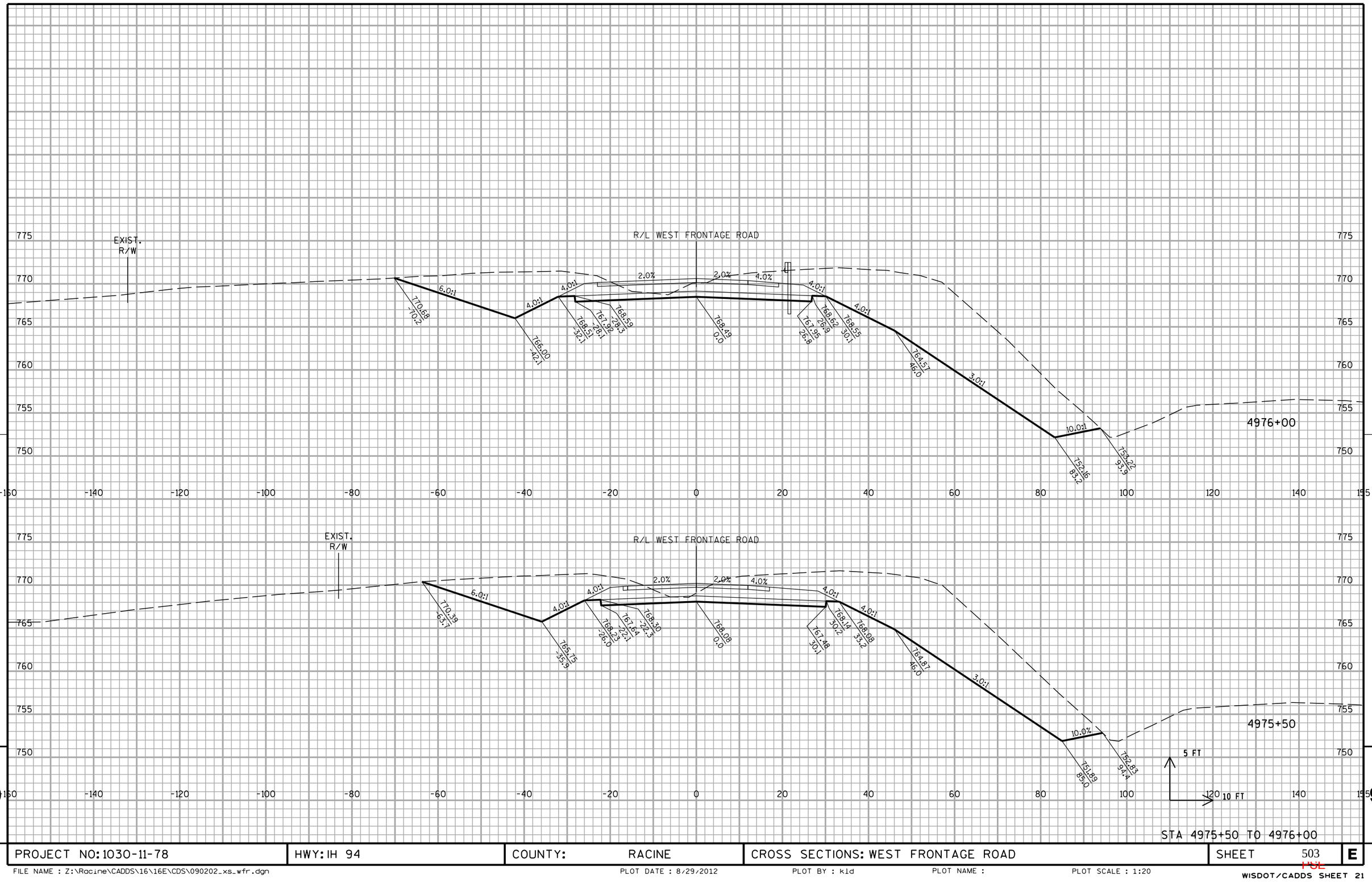


STA 4974+50 TO 4975+00

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 502	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



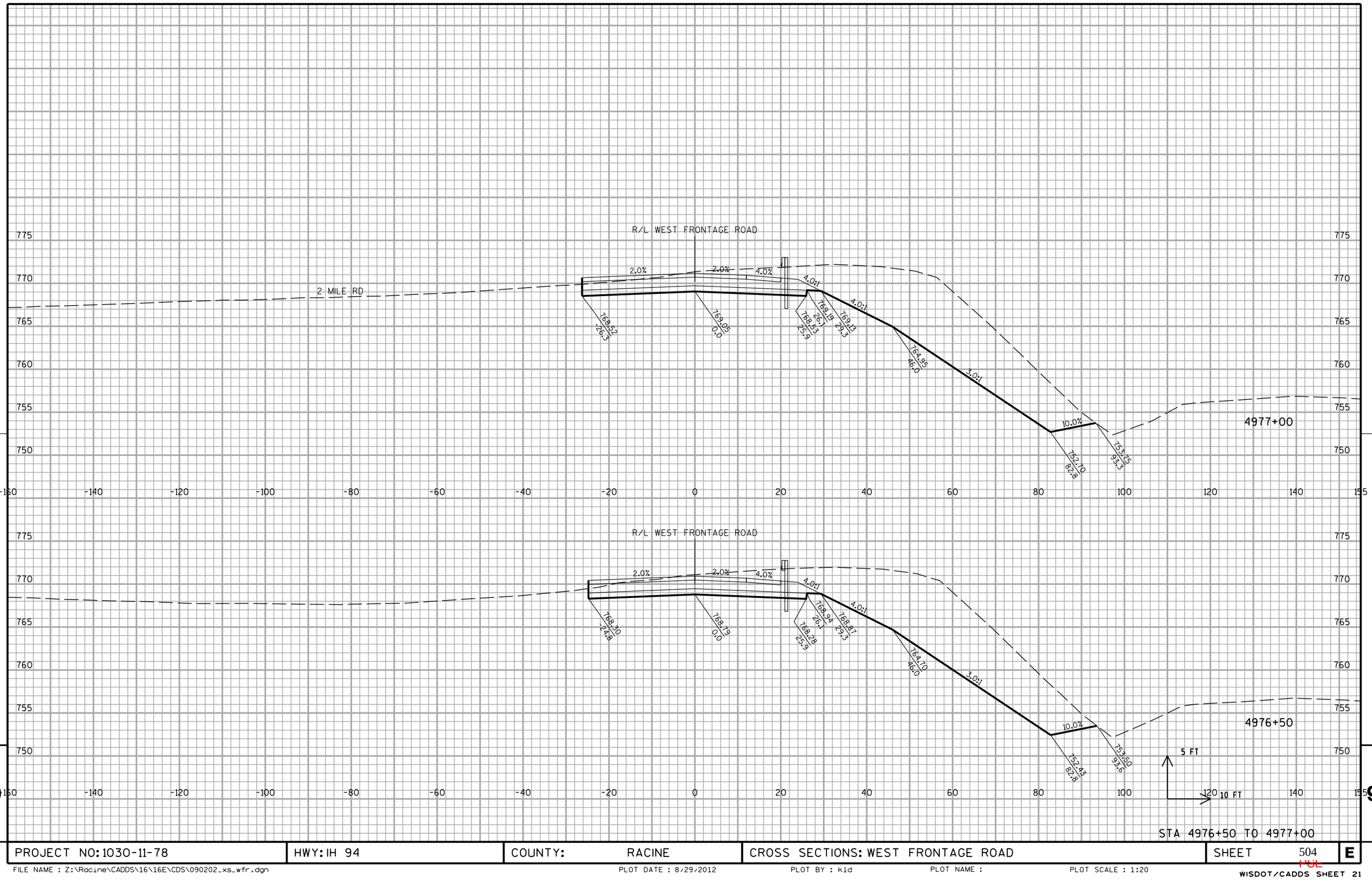
STA 4975+50 TO 4976+00

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 503	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

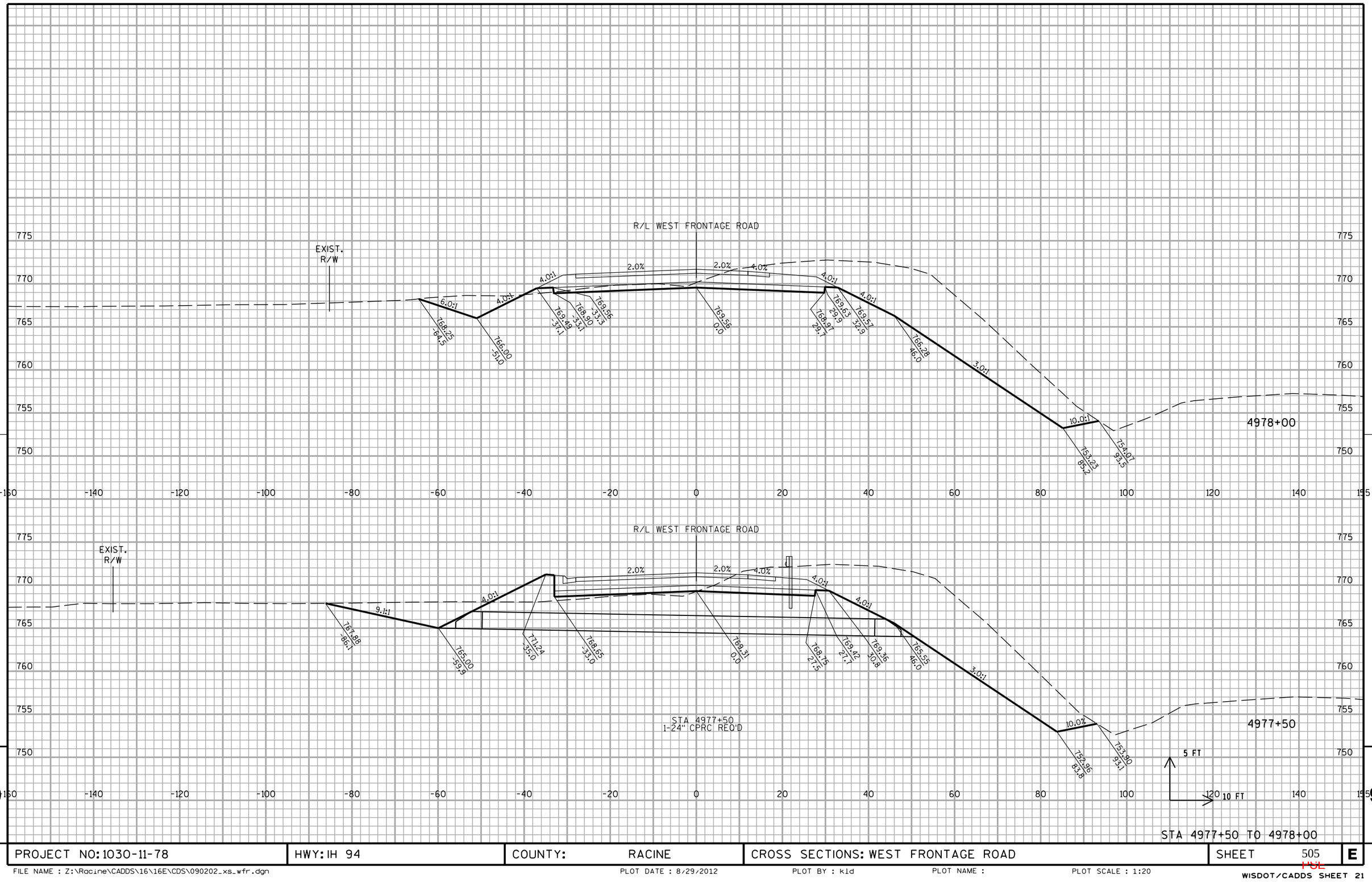
10301177-00008RDAPERM



PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 504	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:20

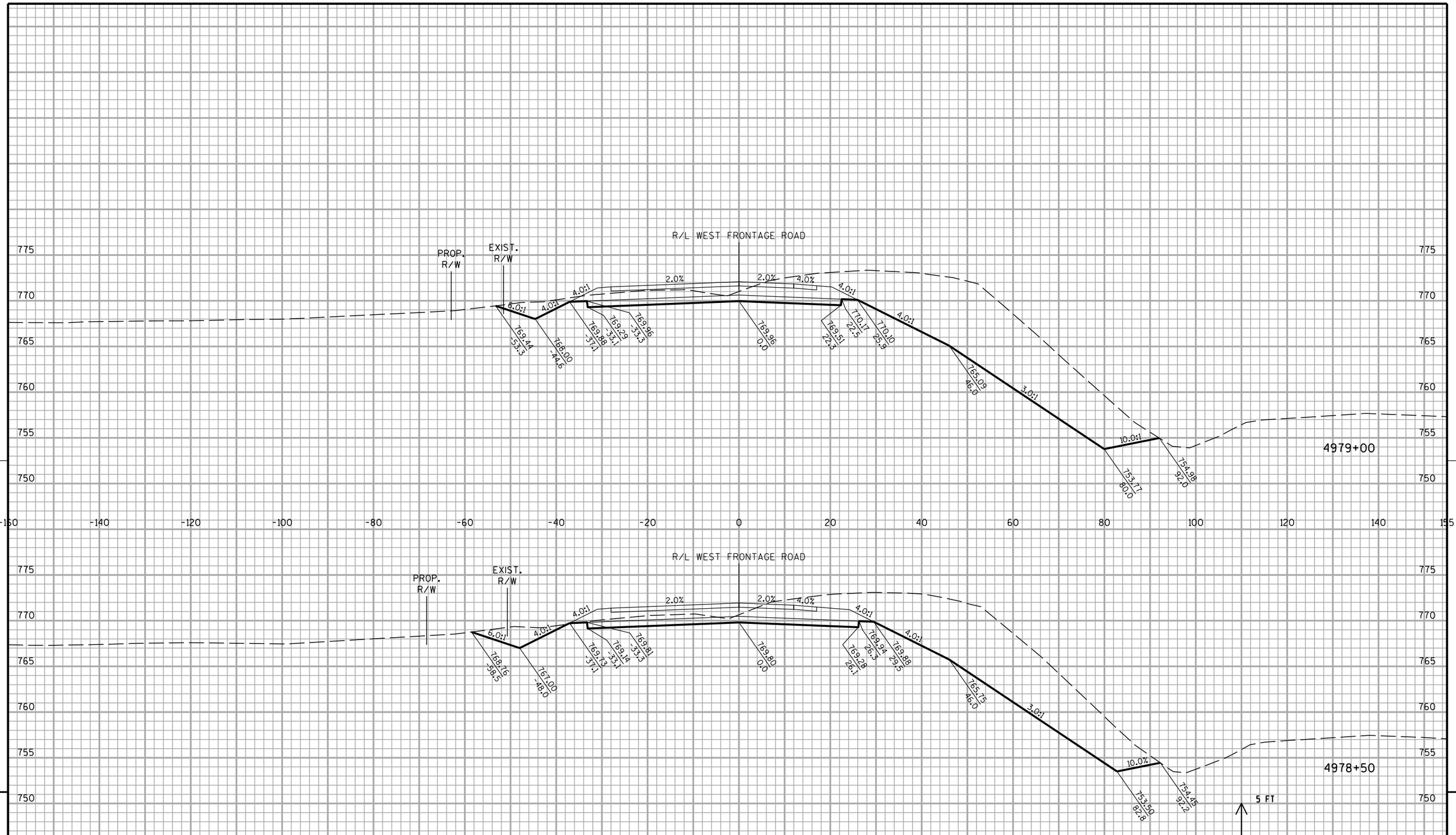
WISDOT/CADDS SHEET 21



STA 4977+50 TO 4978+00

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 505	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : | PLOT SCALE : 1:20

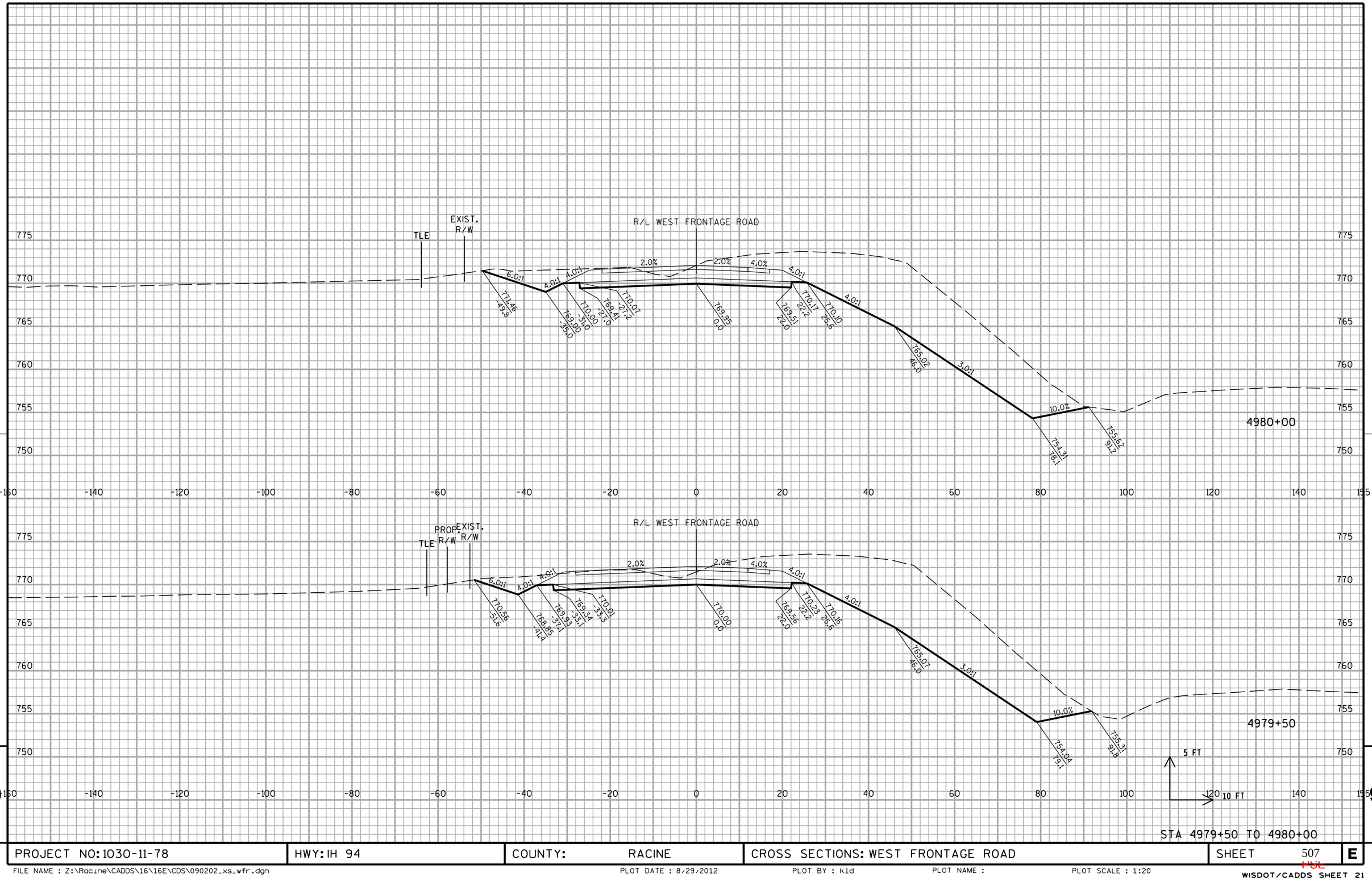


STA 4978+50 TO 4979+00

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 506	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



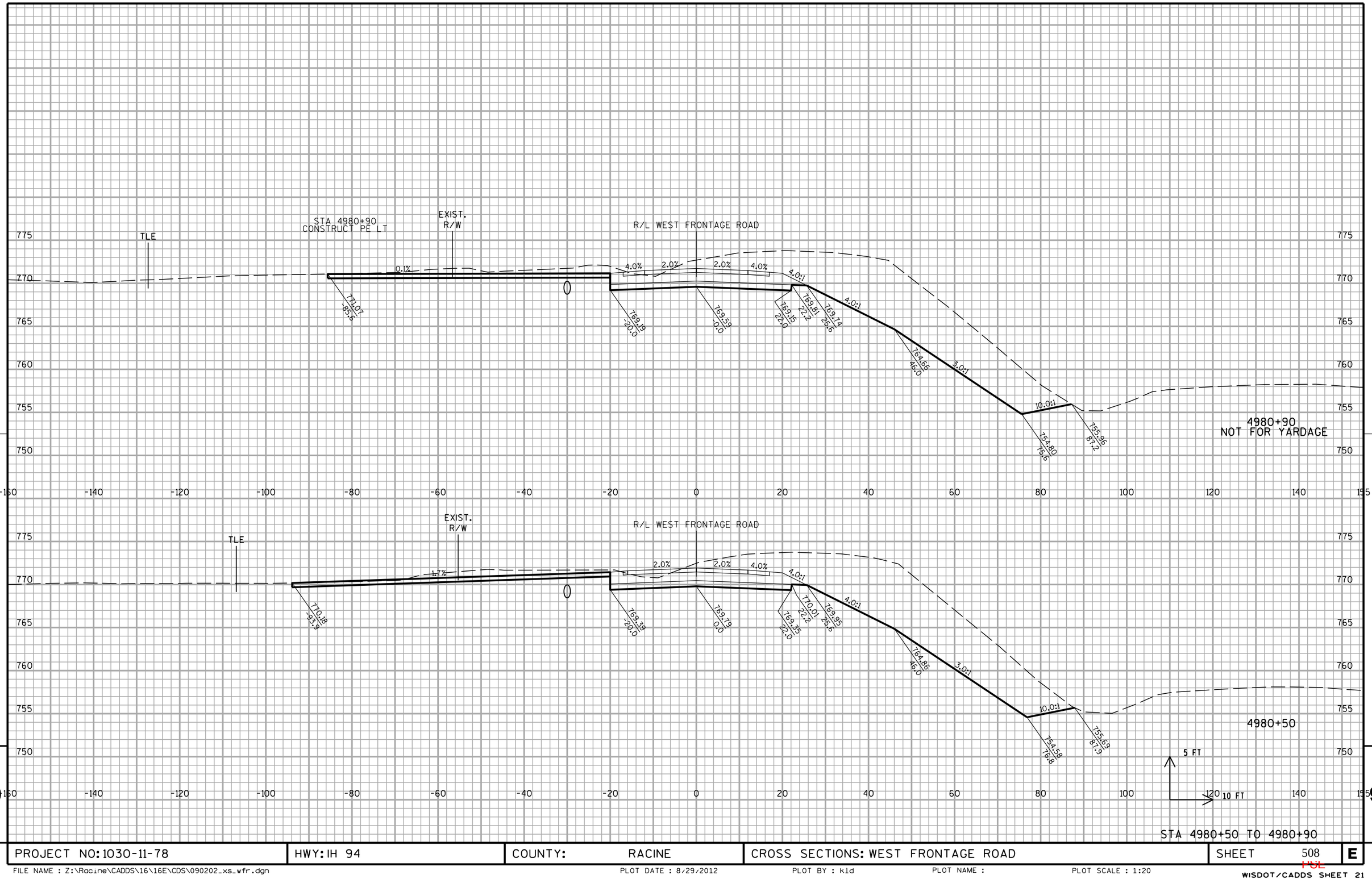
STA 4979+50 TO 4980+00

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 507	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

10301177-00008RDAPERM

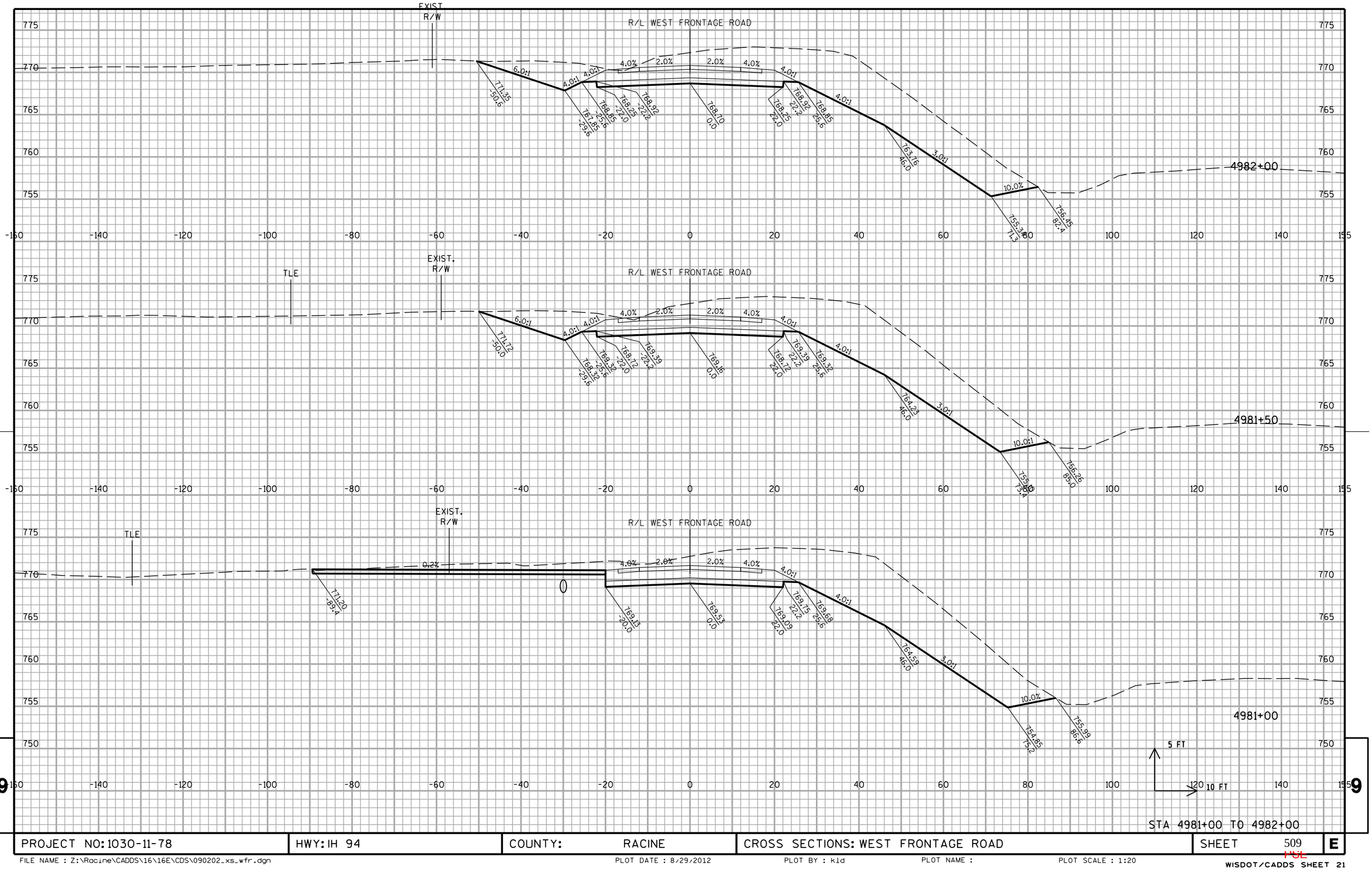


PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 508	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

10301177-00008RDAPERM

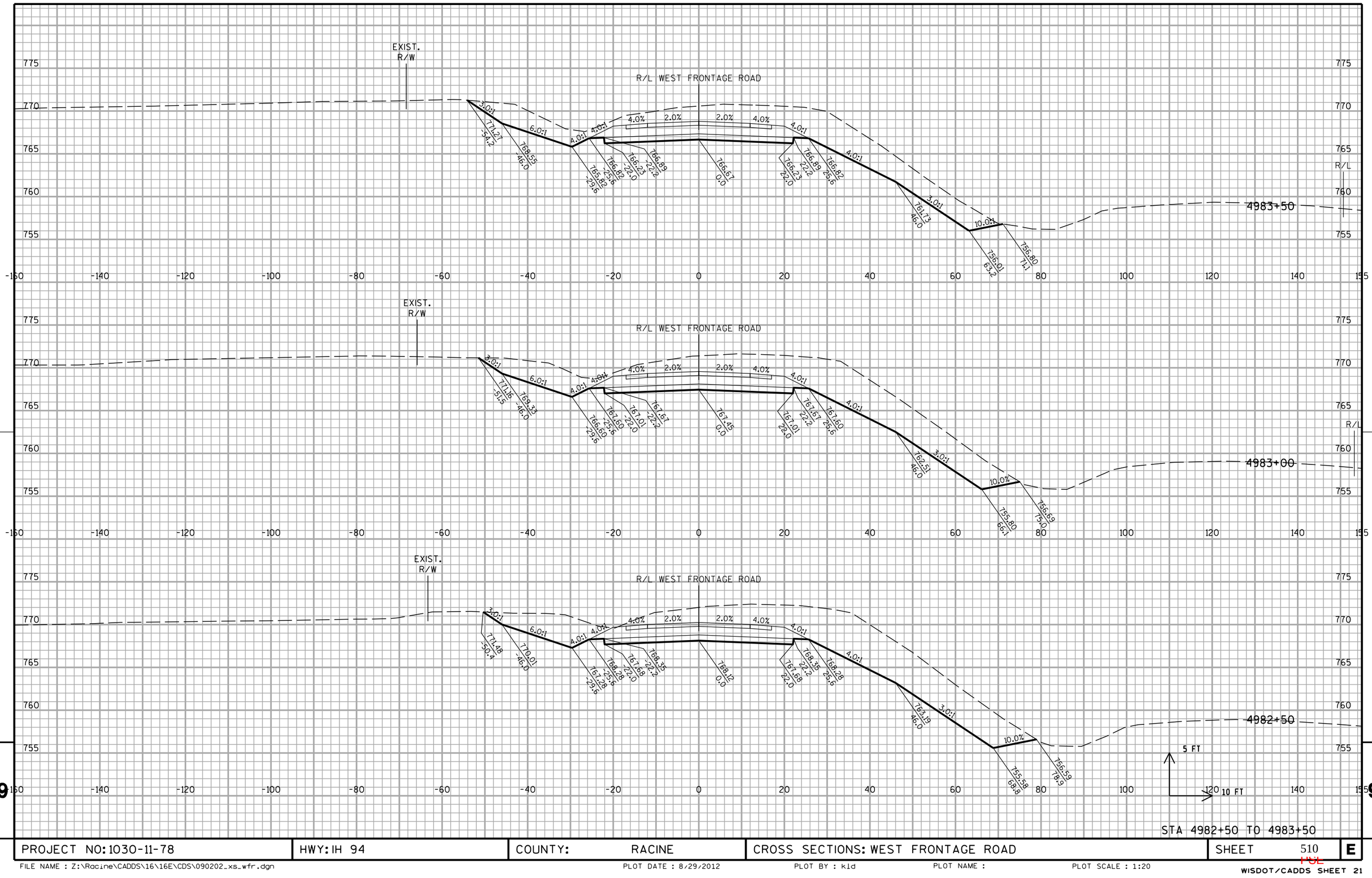


STA 4981+00 TO 4982+00

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 509	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : | PLOT SCALE : 1:20

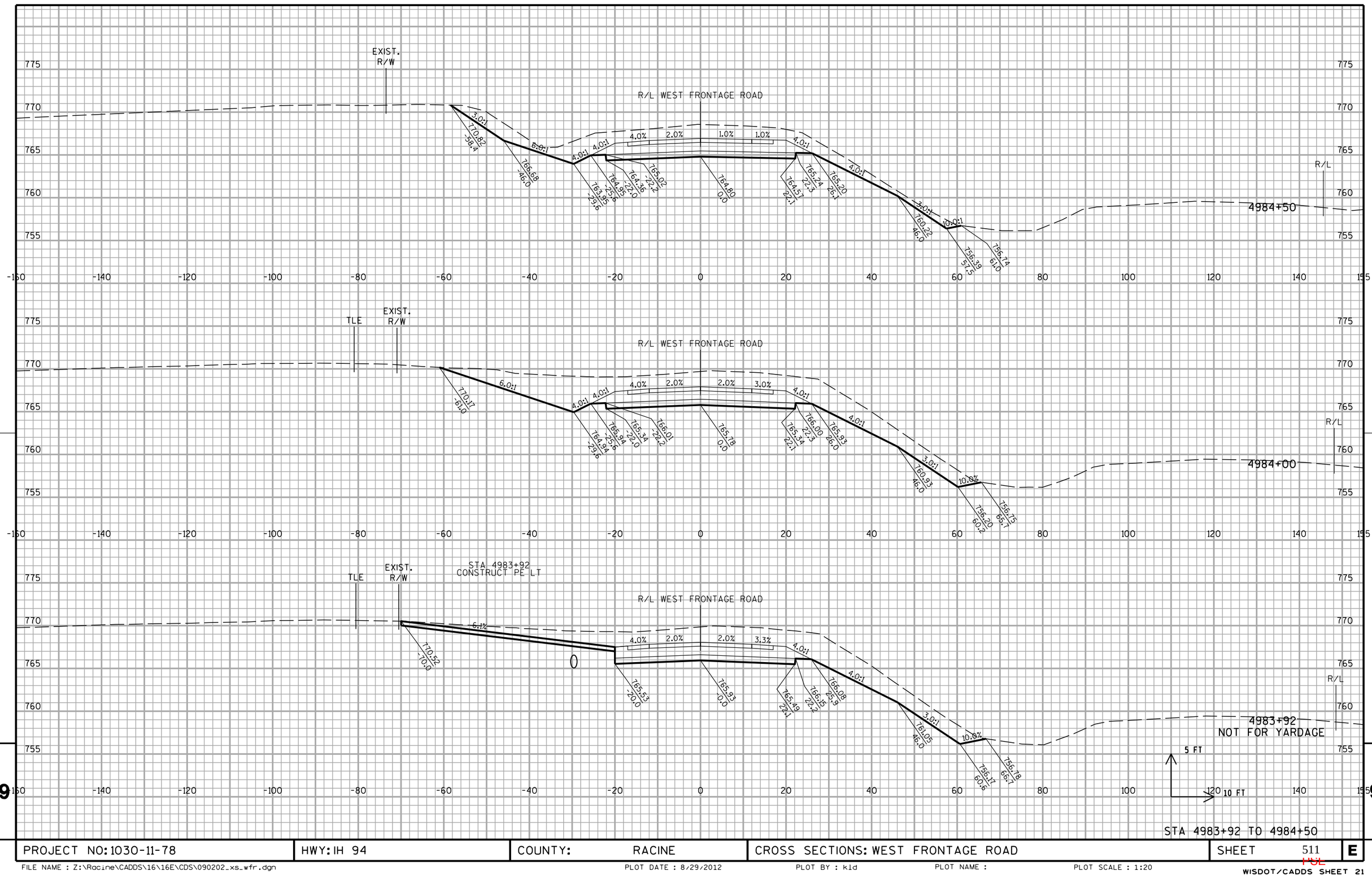
WISDOT/CADDS SHEET 21



STA 4982+50 TO 4983+50

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 510	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : | PLOT SCALE : 1:20



9

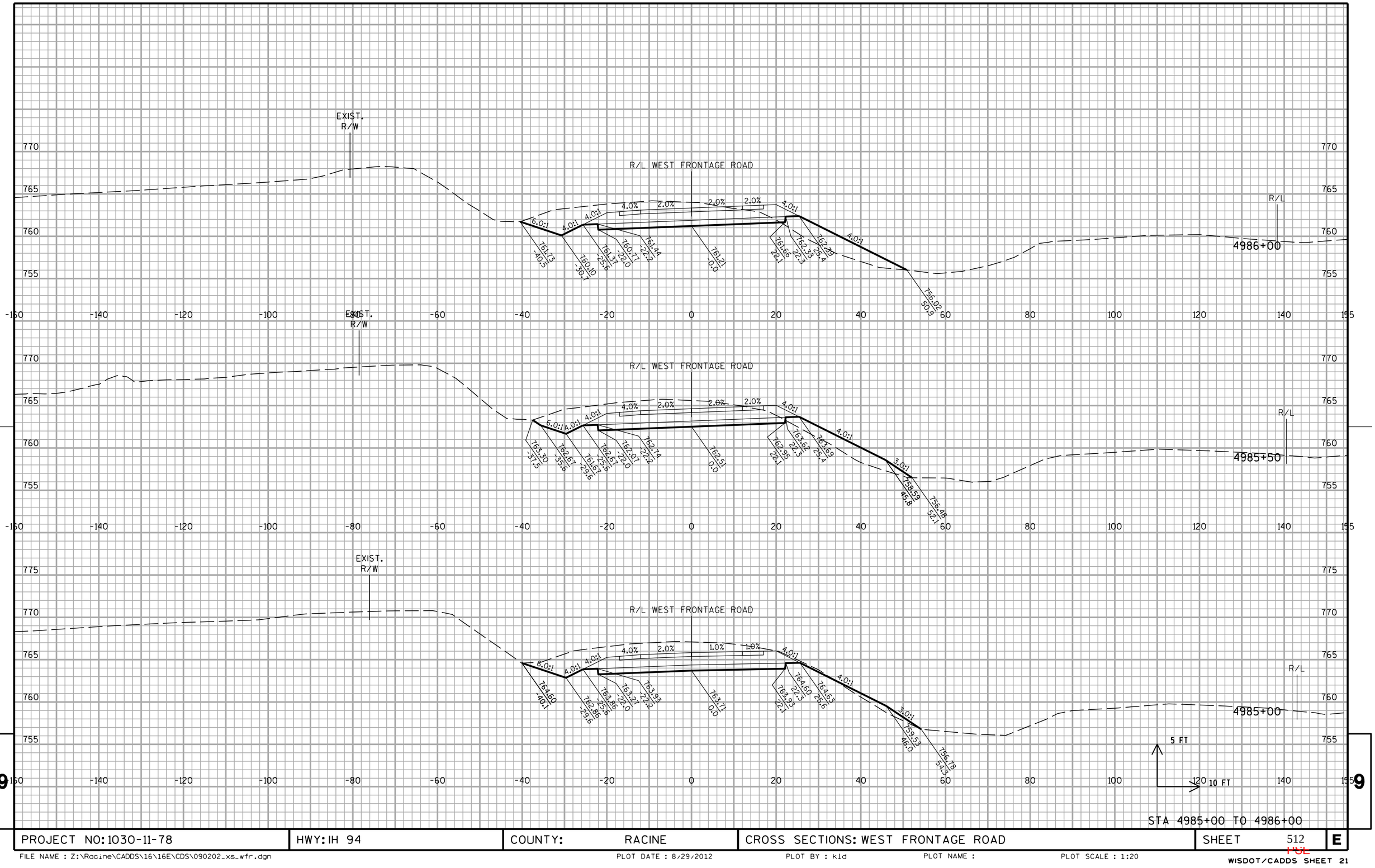
STA 4983+92 TO 4984+50

9

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 511	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:20

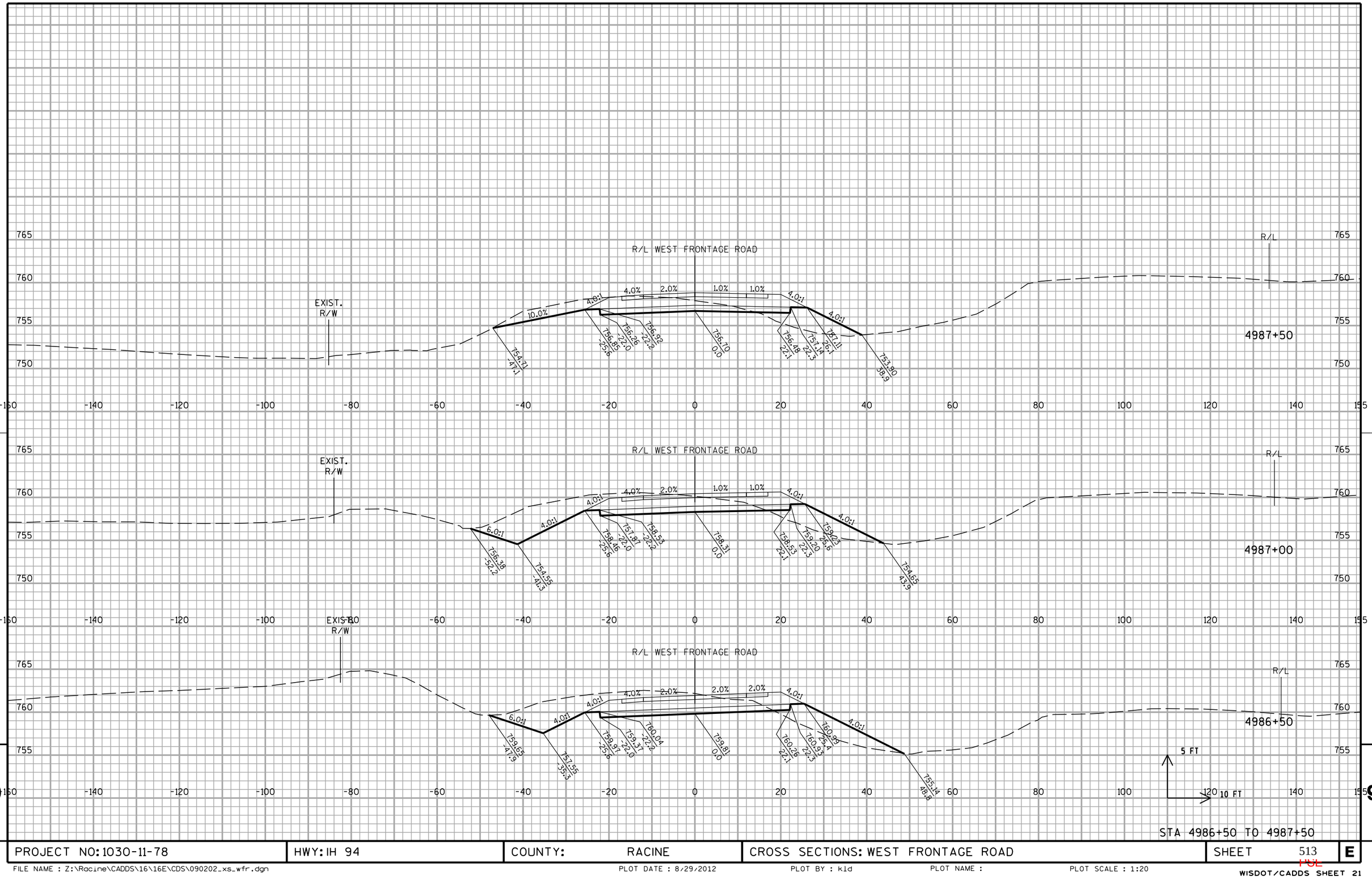
WISDOT/CADDS SHEET 21



PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 512	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

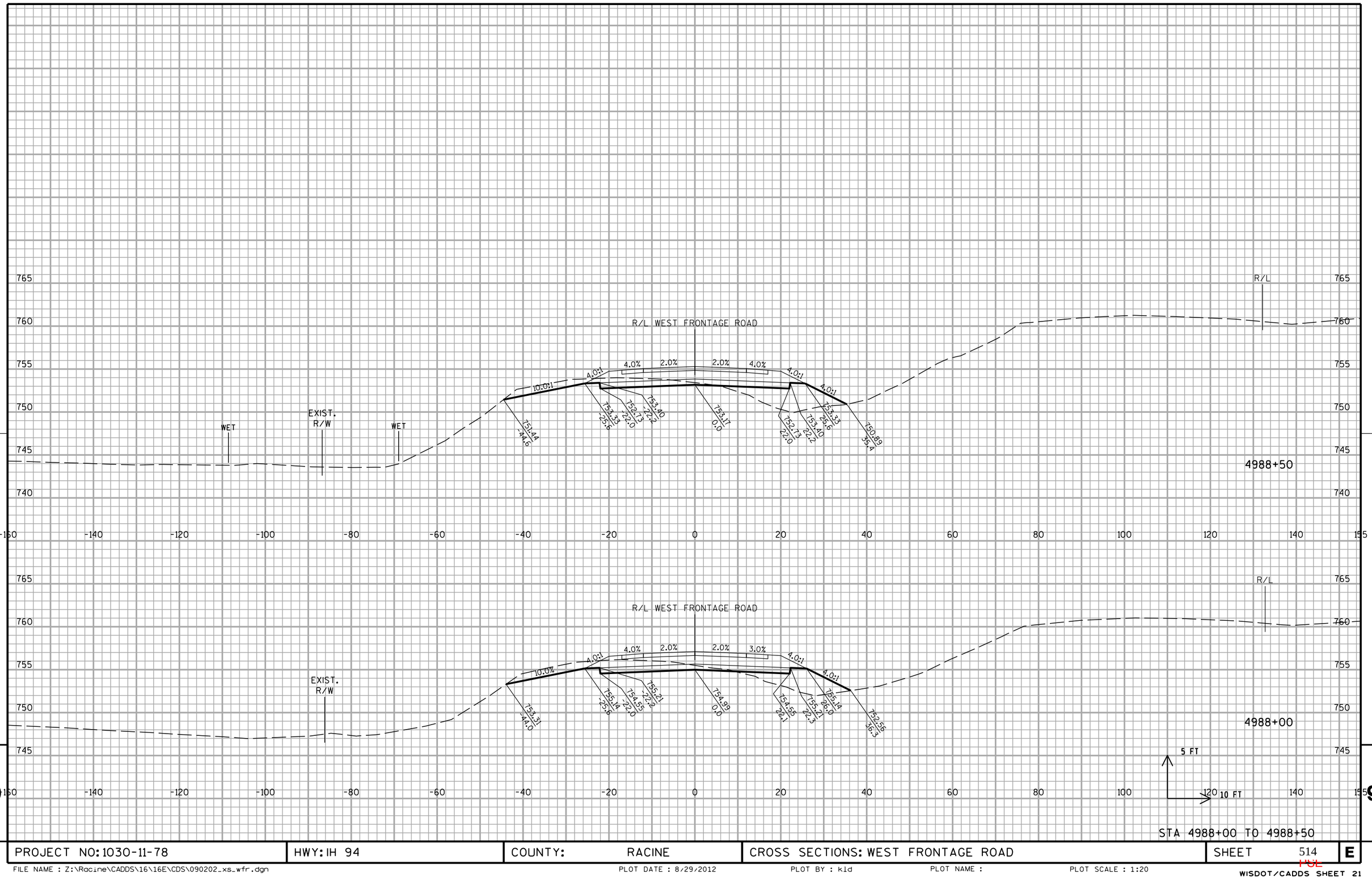


STA 4986+50 TO 4987+50

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 513	E

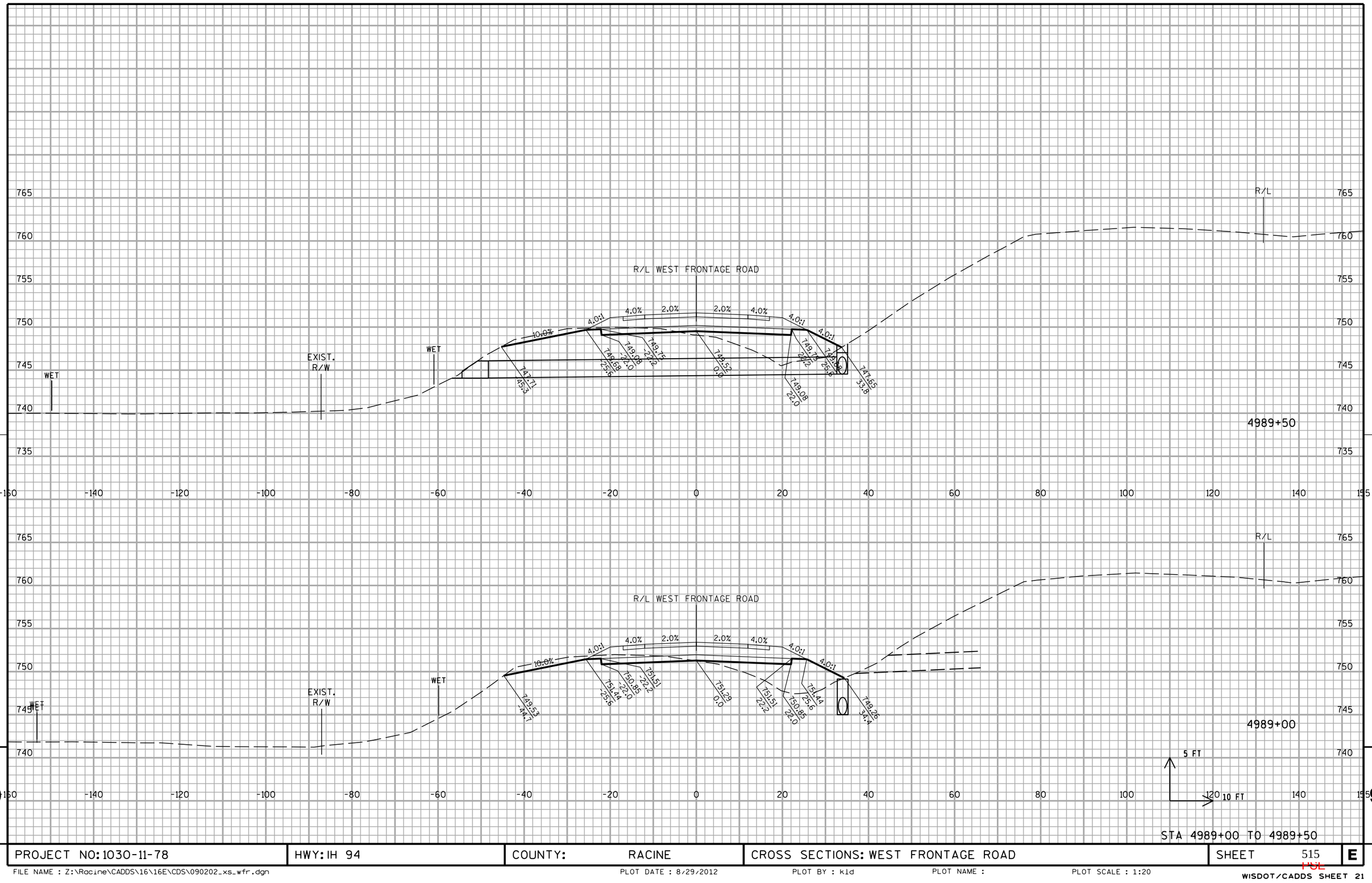
FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 514	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:20

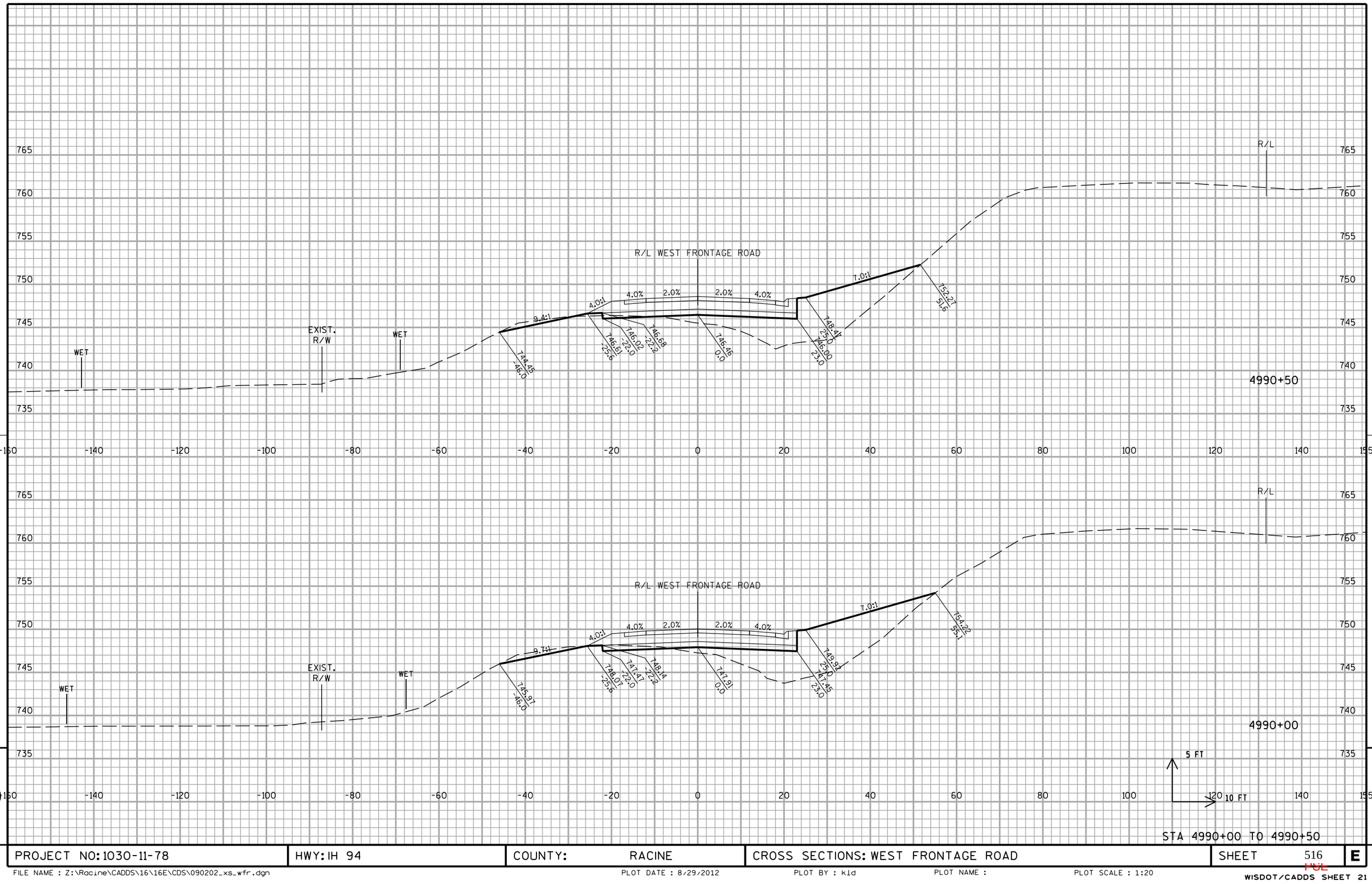


PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 515	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

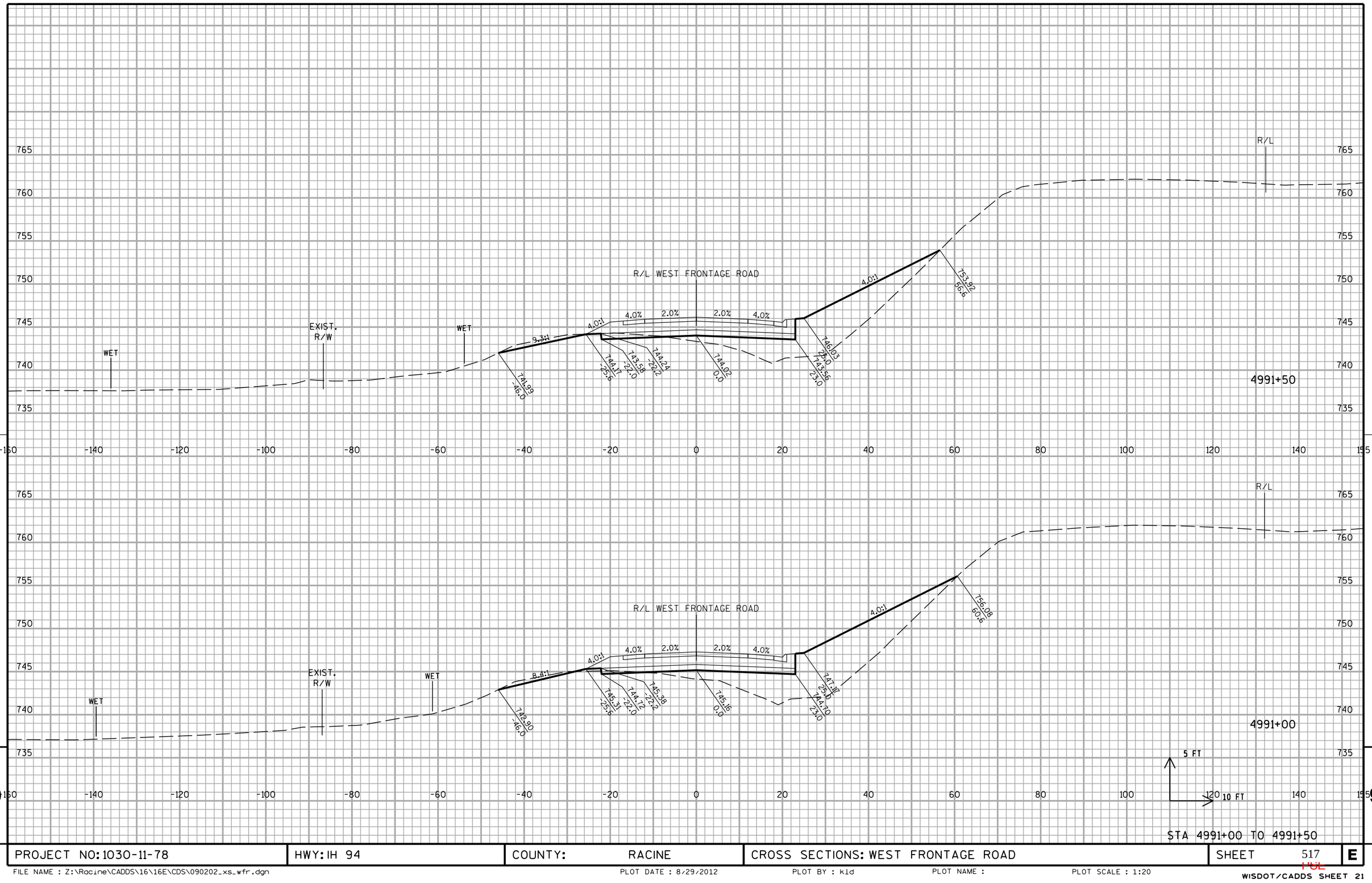
10301177-00008RDAPERM



PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 516	E

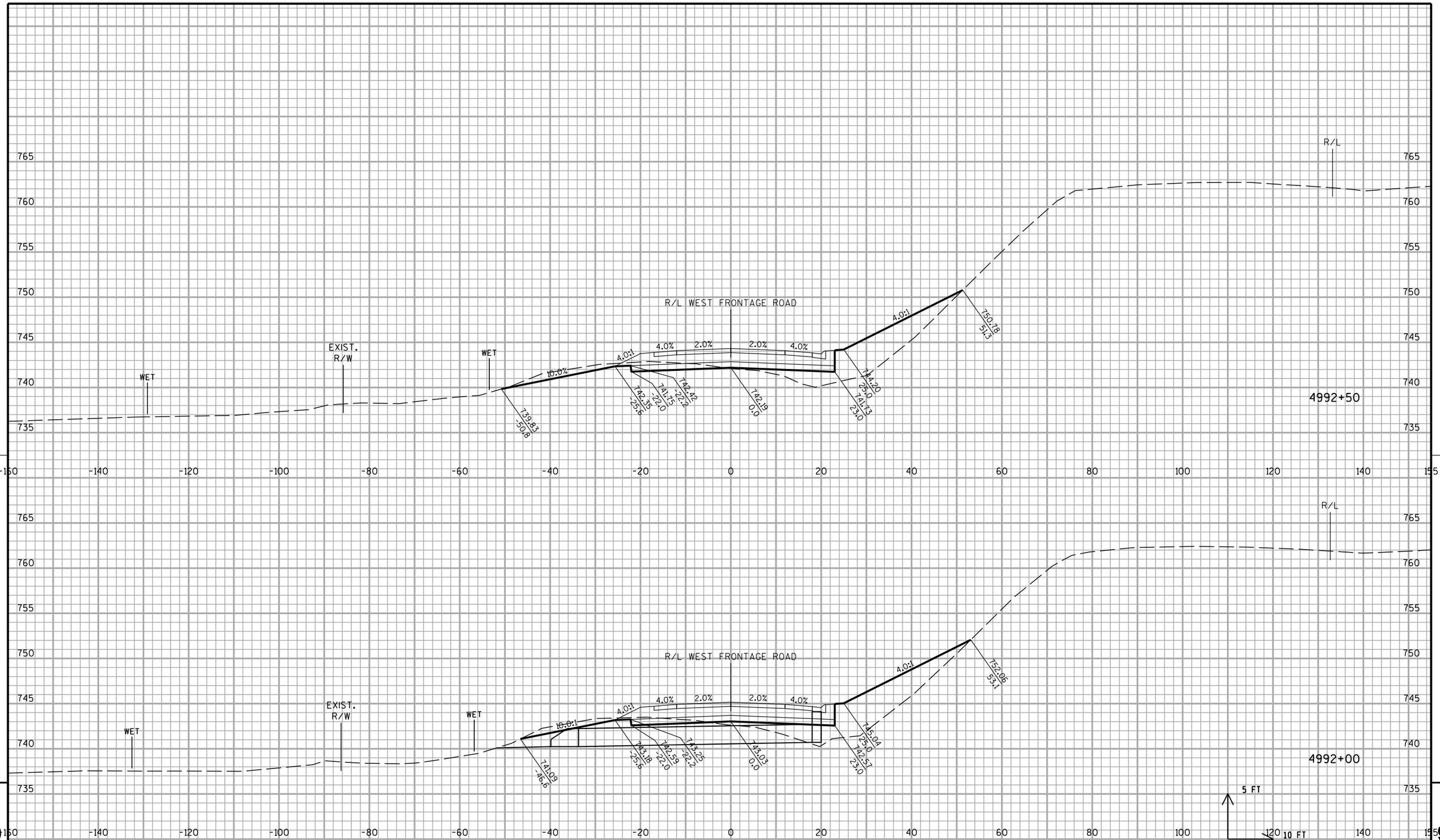
FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 517	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:20



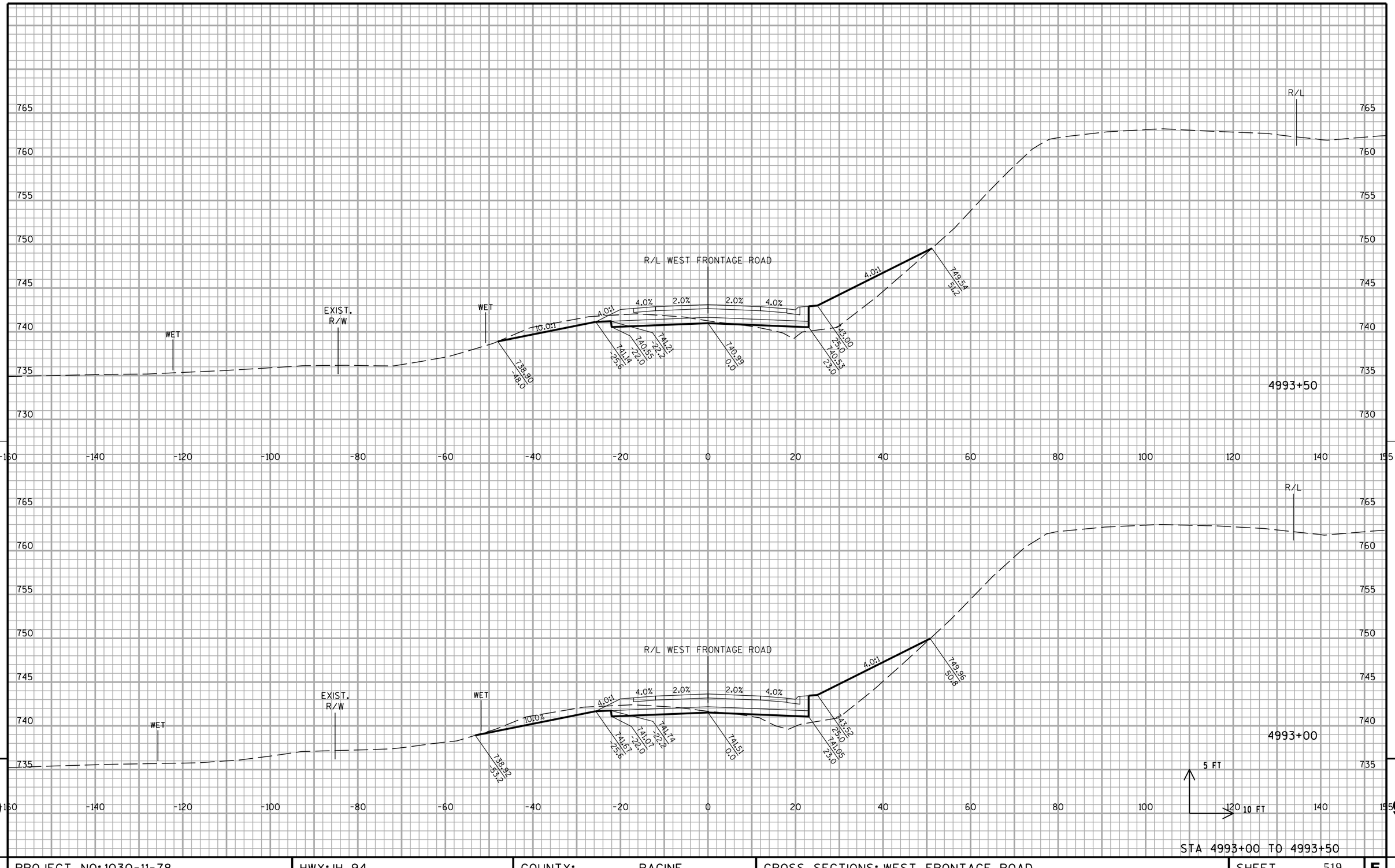
STA 4992+00 TO 4992+50

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 518	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

10301177-00008RDAPERM

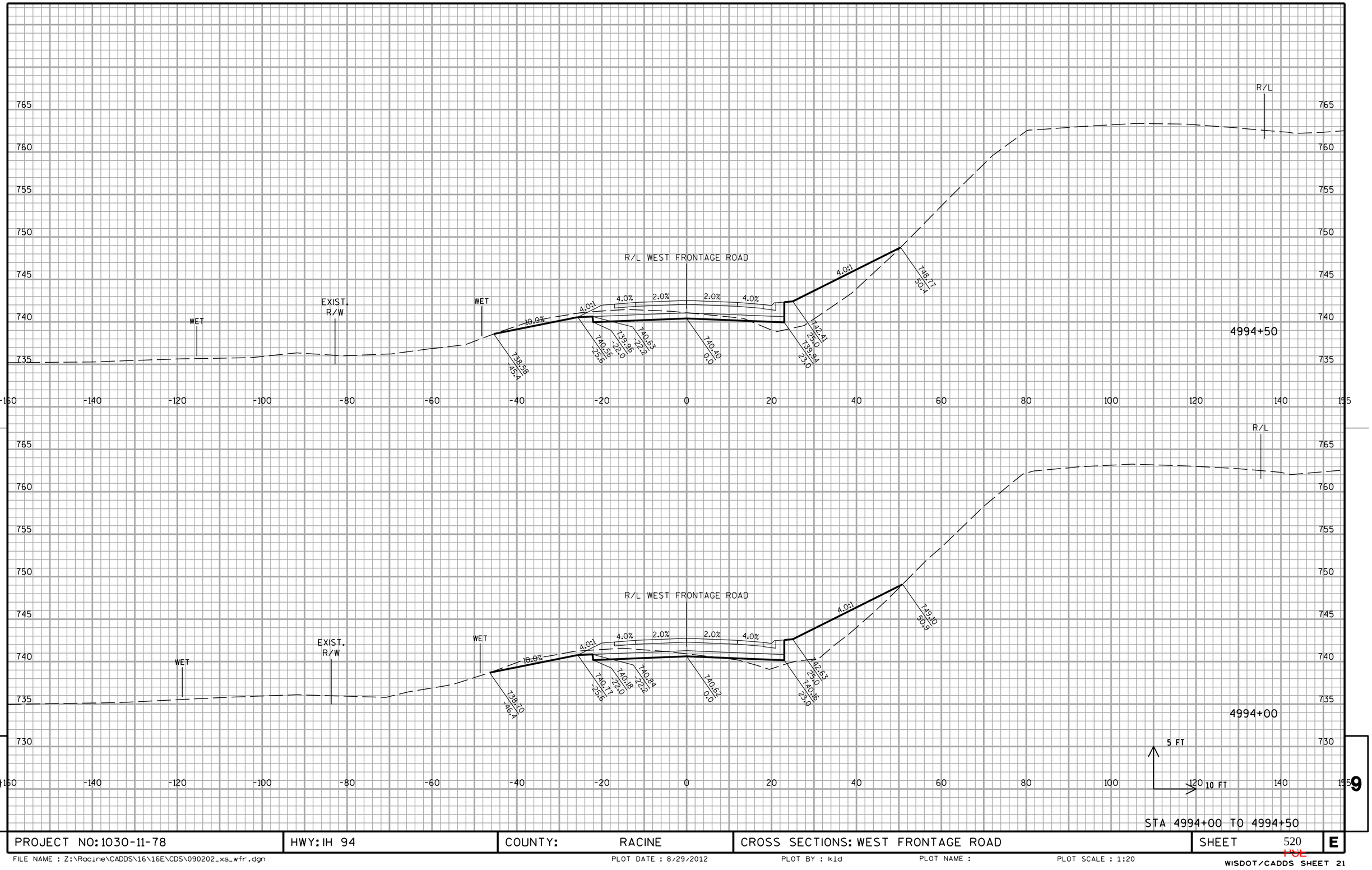


PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 519	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

10301177-00008RDAPERM



9

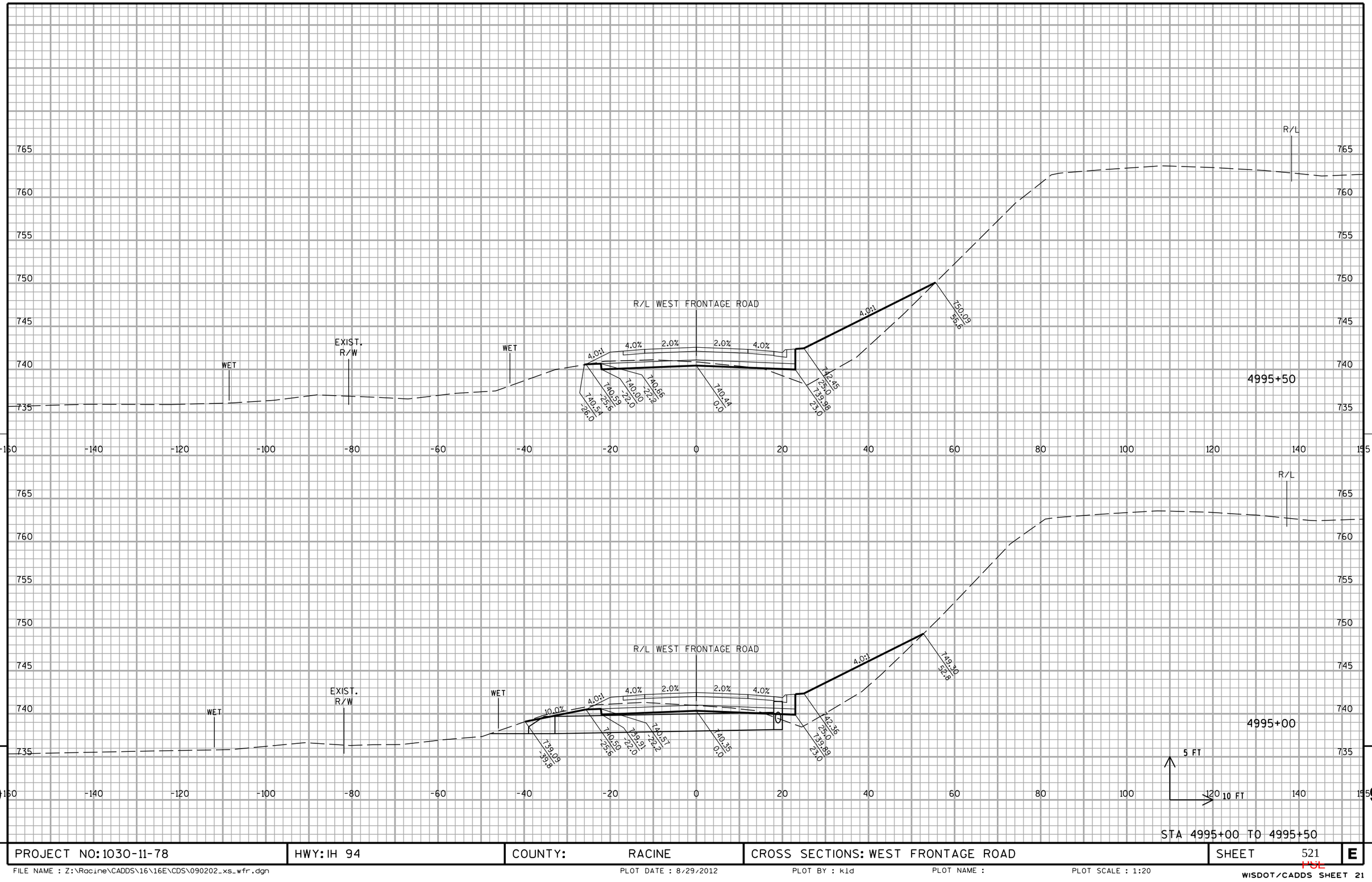
PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 520	E

STA 4994+00 TO 4994+50

9

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:20

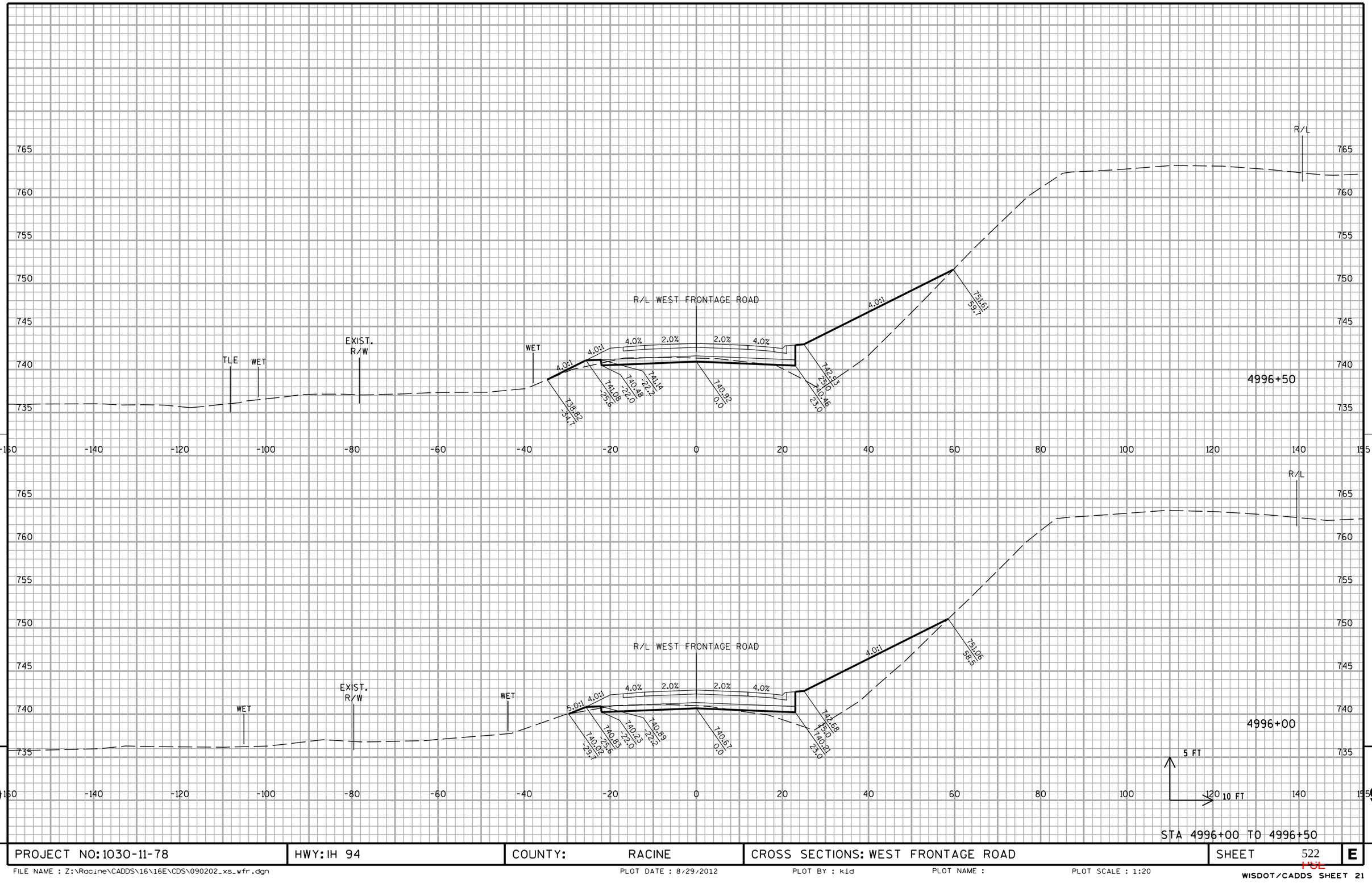
WISDOT/CADDS SHEET 21



STA 4995+00 TO 4995+50

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 521	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:20

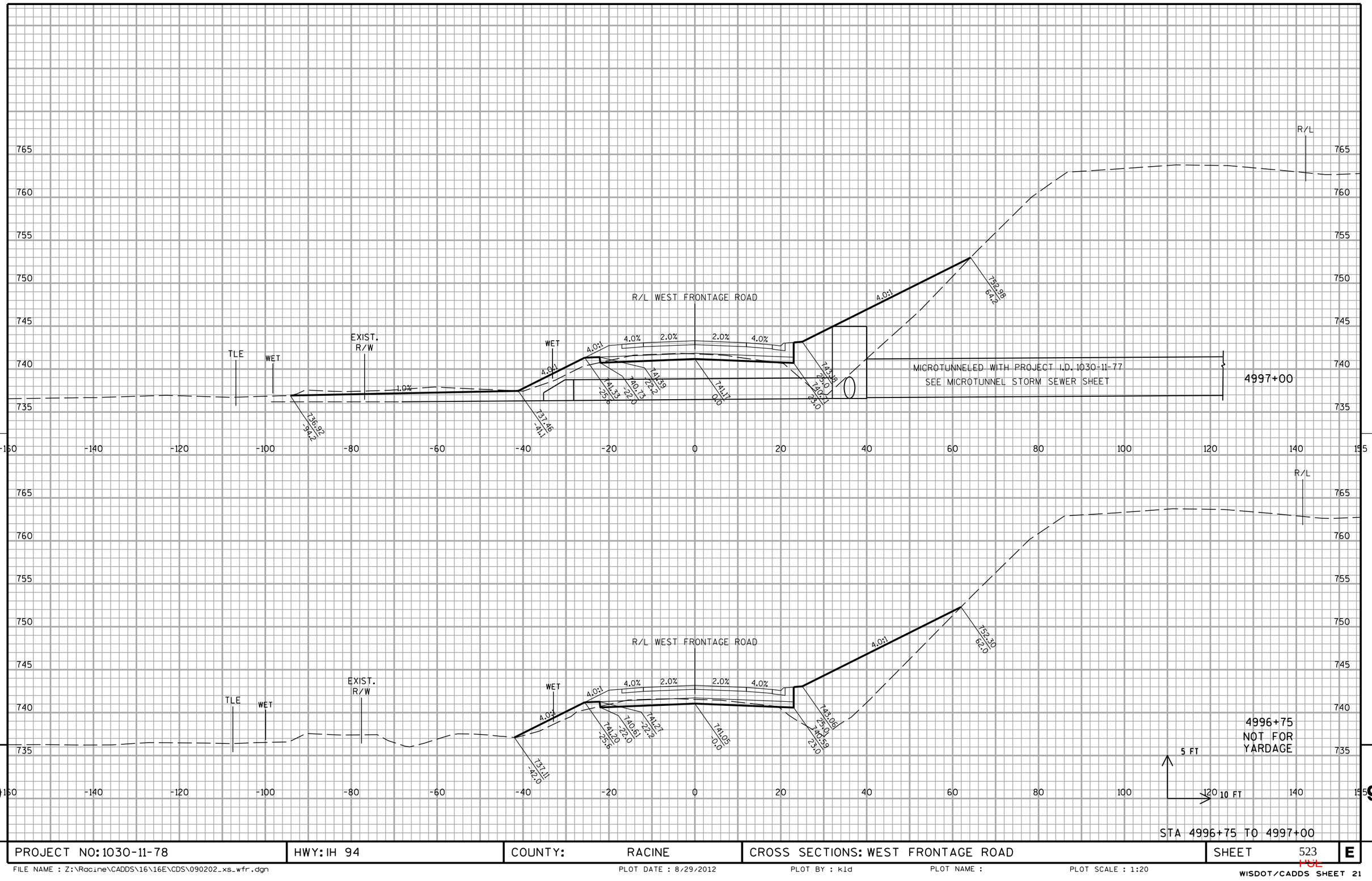


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PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 522	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:20

10301177-00008RDAPERM

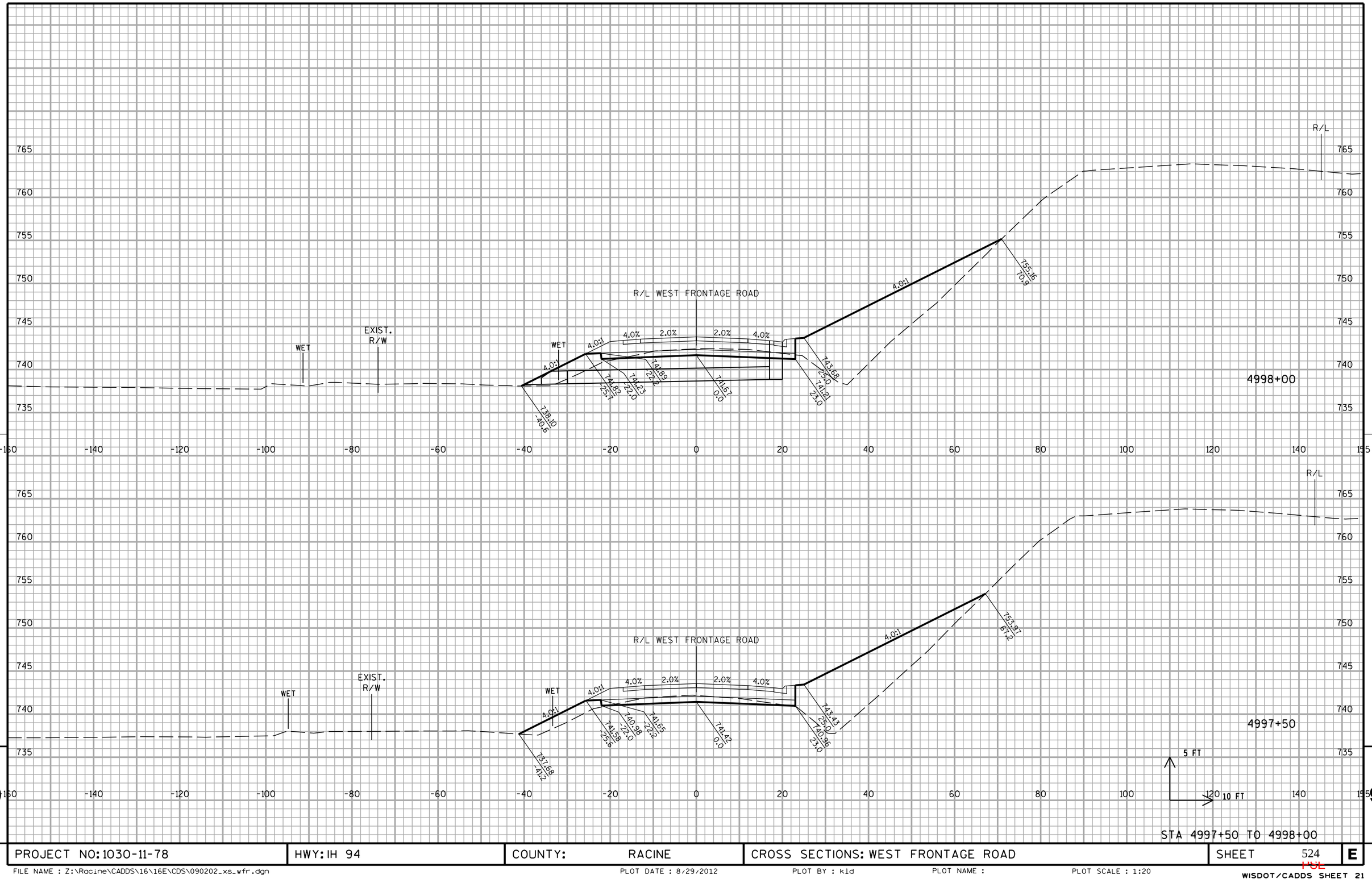


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PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 523	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



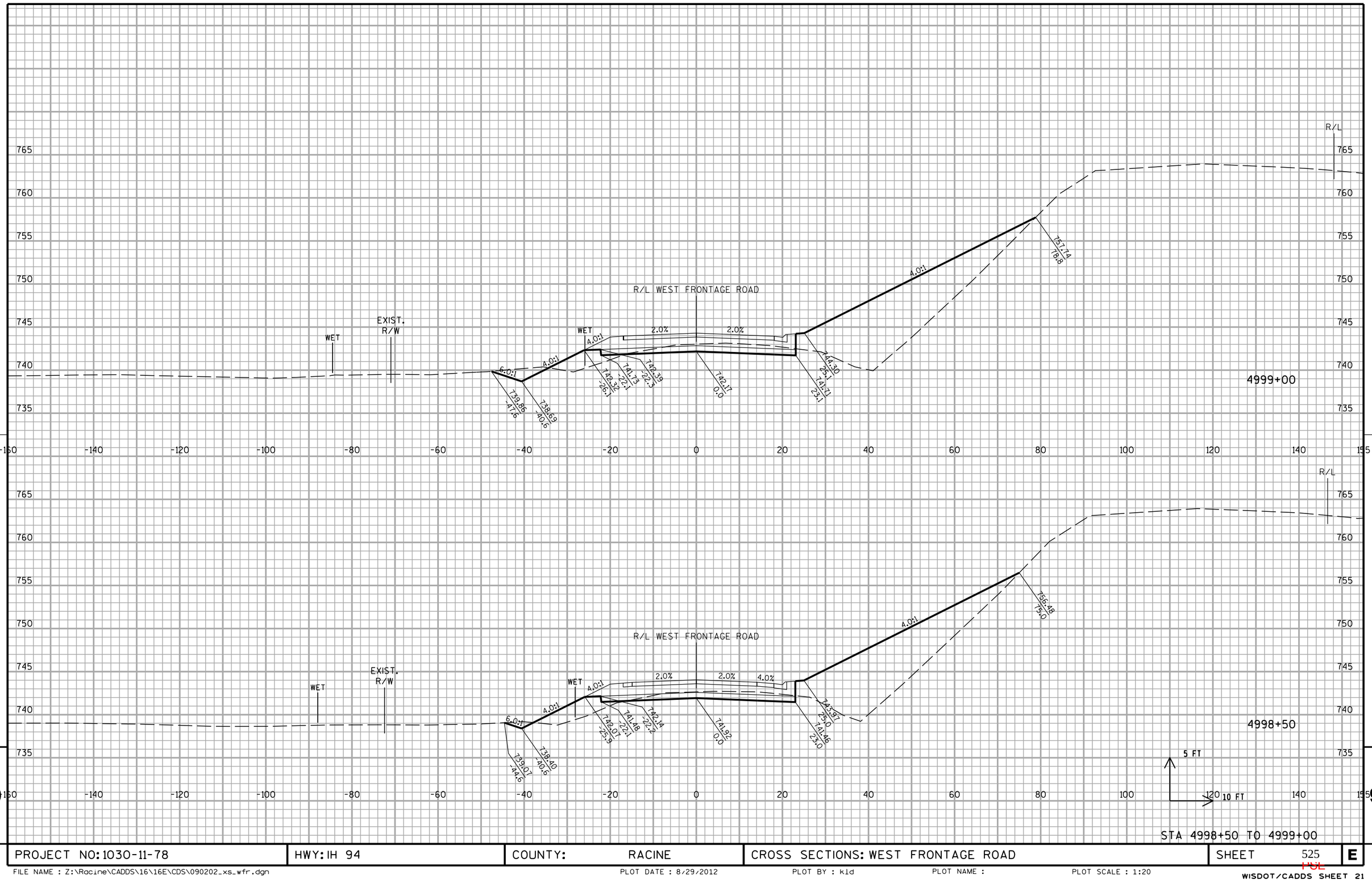
STA 4997+50 TO 4998+00

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 524	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

10301177-00008RDAPERM

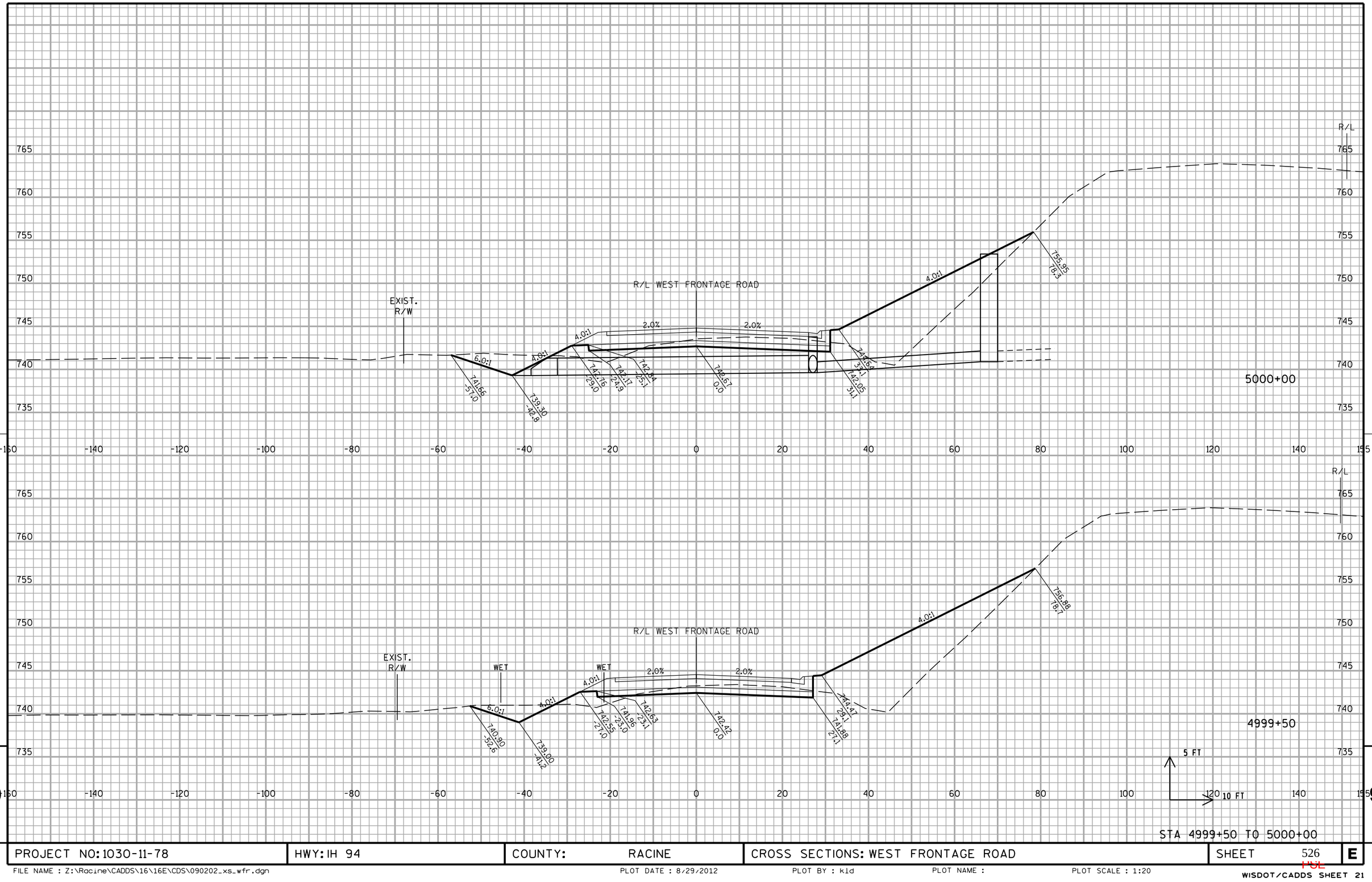


STA 4998+50 TO 4999+00

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 525	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

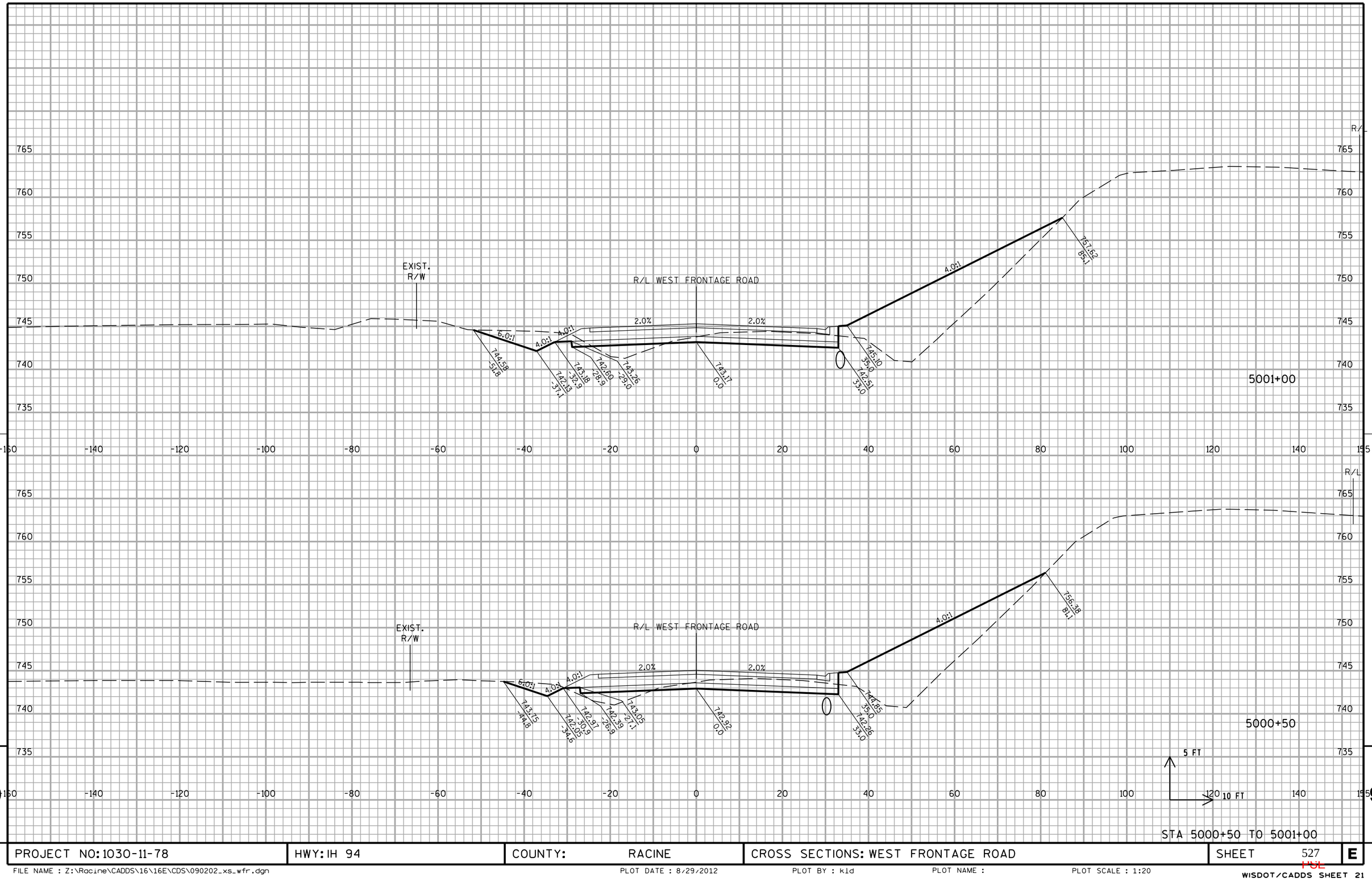


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PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 526	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

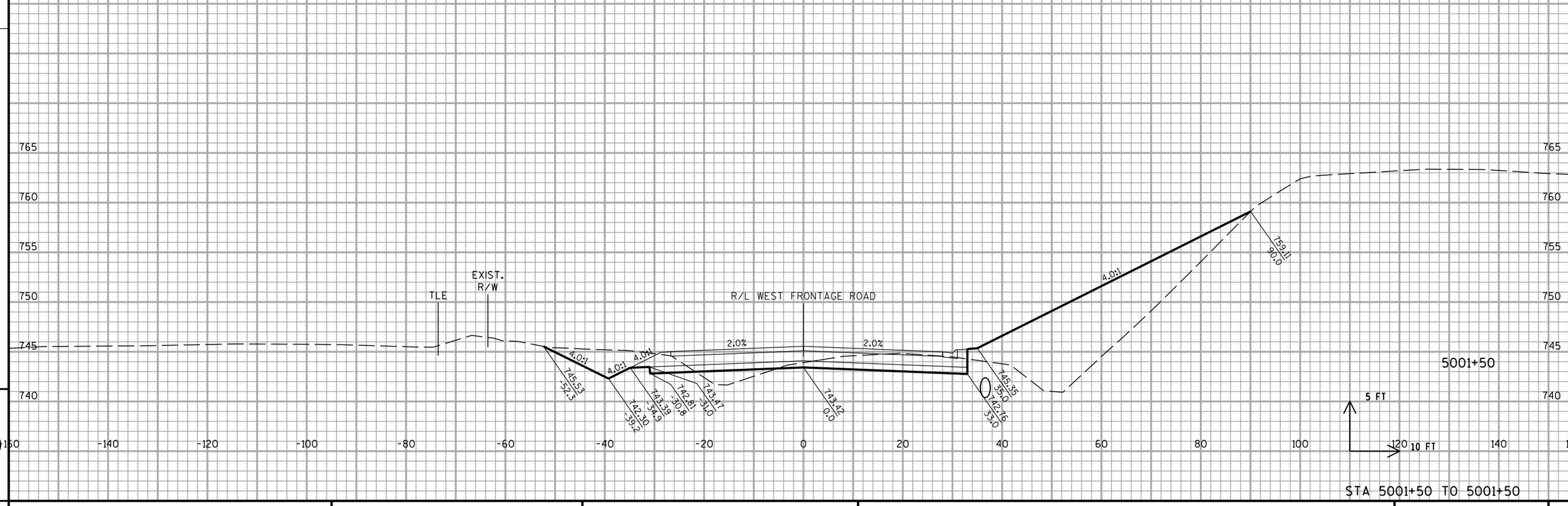


PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 527	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

10301177-00008RDAPERM

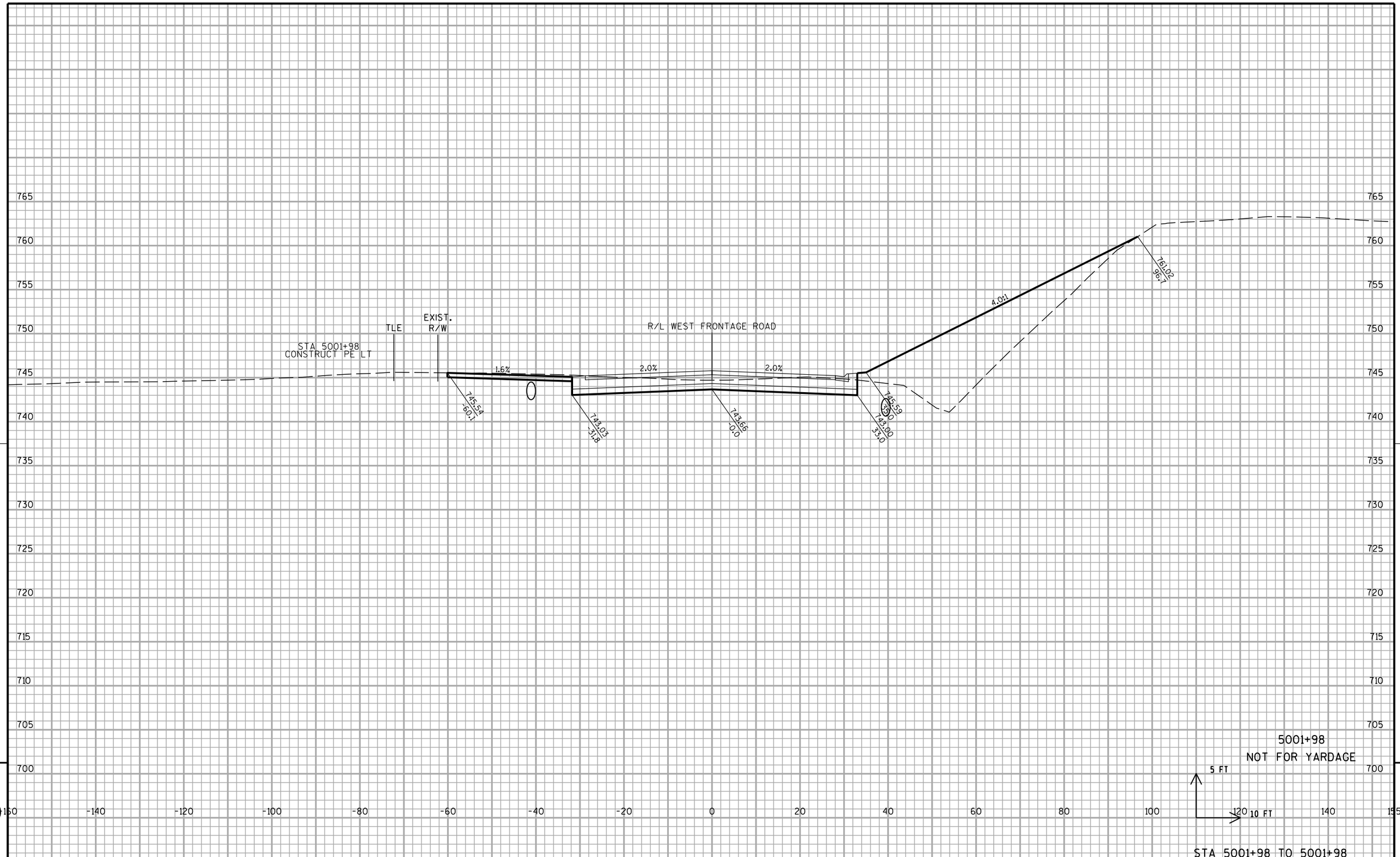


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PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 528	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



9

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 529	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : | PLOT SCALE : 1:20

765 760 755 750 745 740 735 730 725 720 715 710 705 700

STA 5001+98
CONSTRUCT PE LT

TLE

EXIST.
R/W

R/L WEST FRONTAGE ROAD

1.7%

2.0%

2.0%

4.0:1

745.59
-60.1

743.04
-31.9

743.67
0.0

745.60
7.9

745.01
33.0

761.11
97.0

5002+00

5 FT

10 FT

-160 -140 -120 -100 -80 -60 -40 -20 0 20 40 60 80 100 120 140 160

STA 5002+00 TO 5002+00

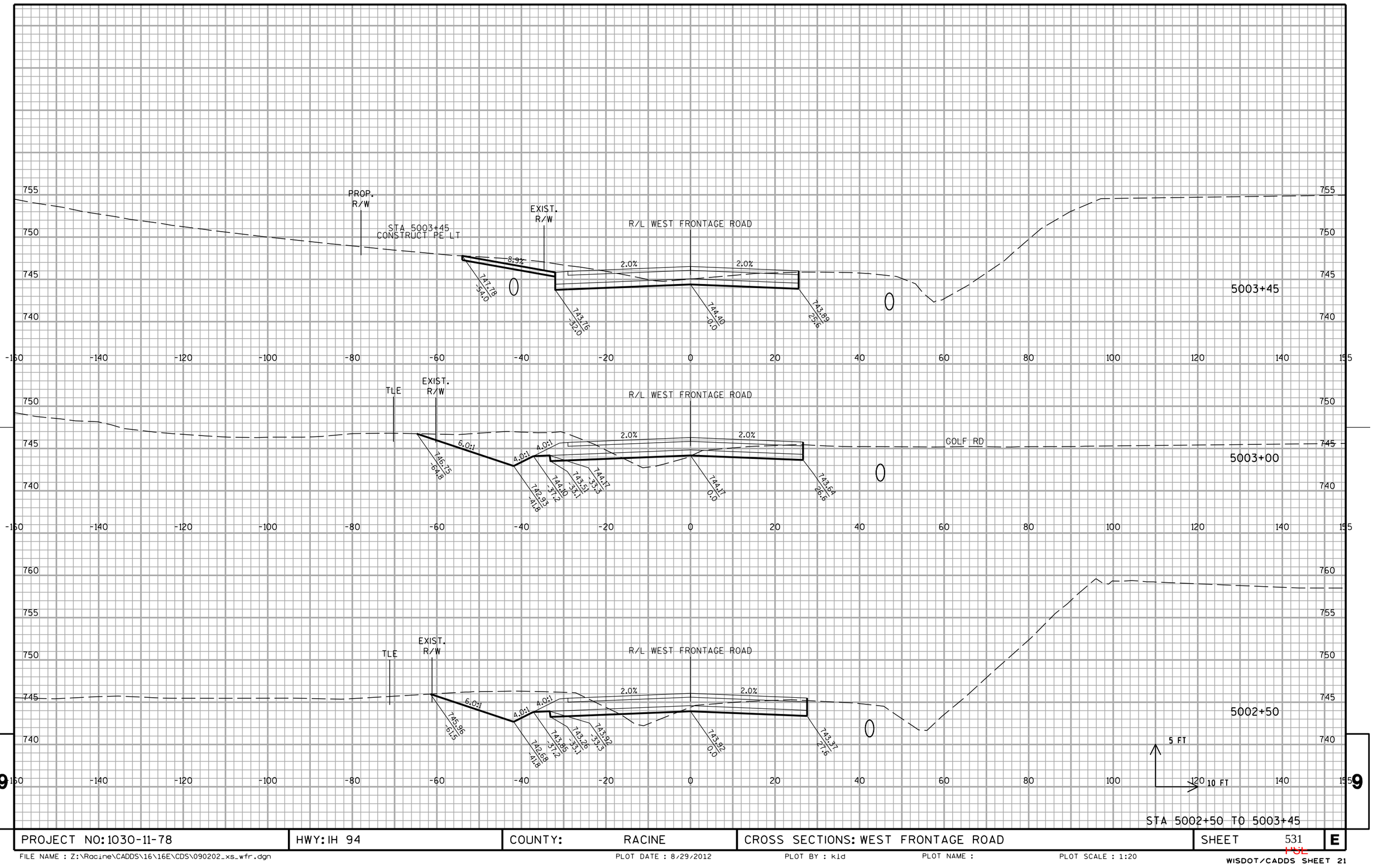
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PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 530	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

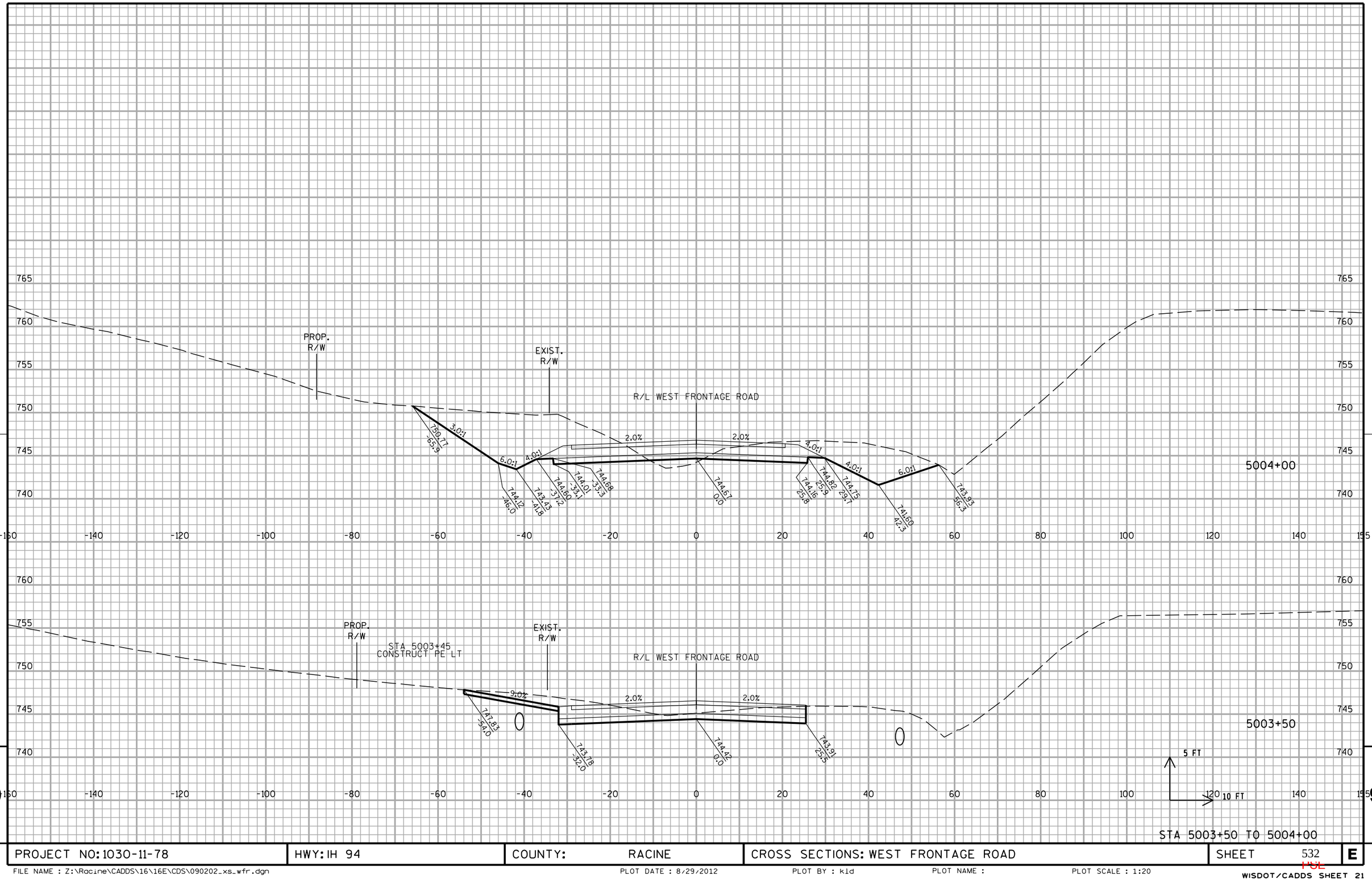


STA 5002+50 TO 5003+45

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 531	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : | PLOT SCALE : 1:20

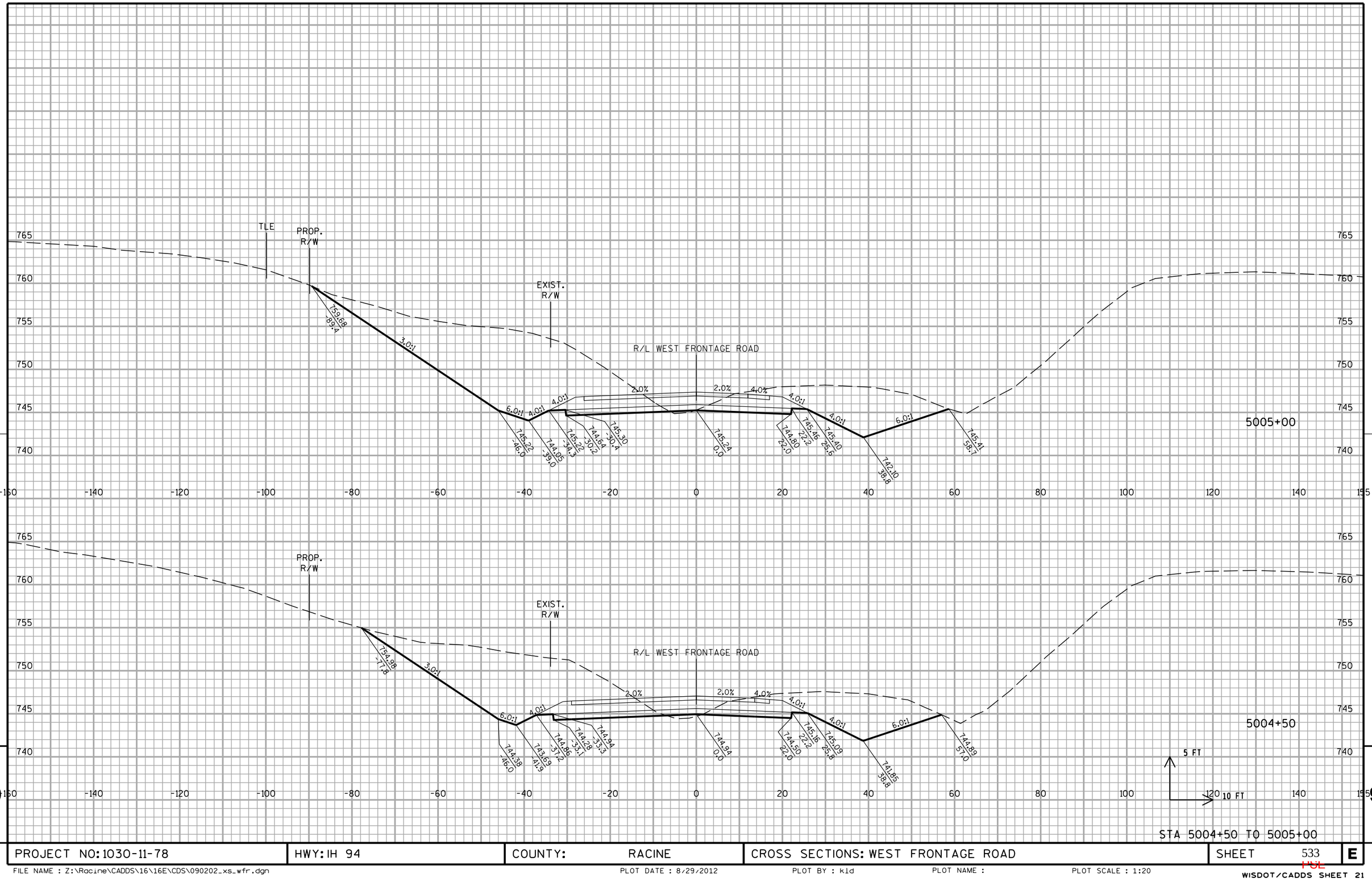
WISDOT/CADDS SHEET 21



PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 532	E

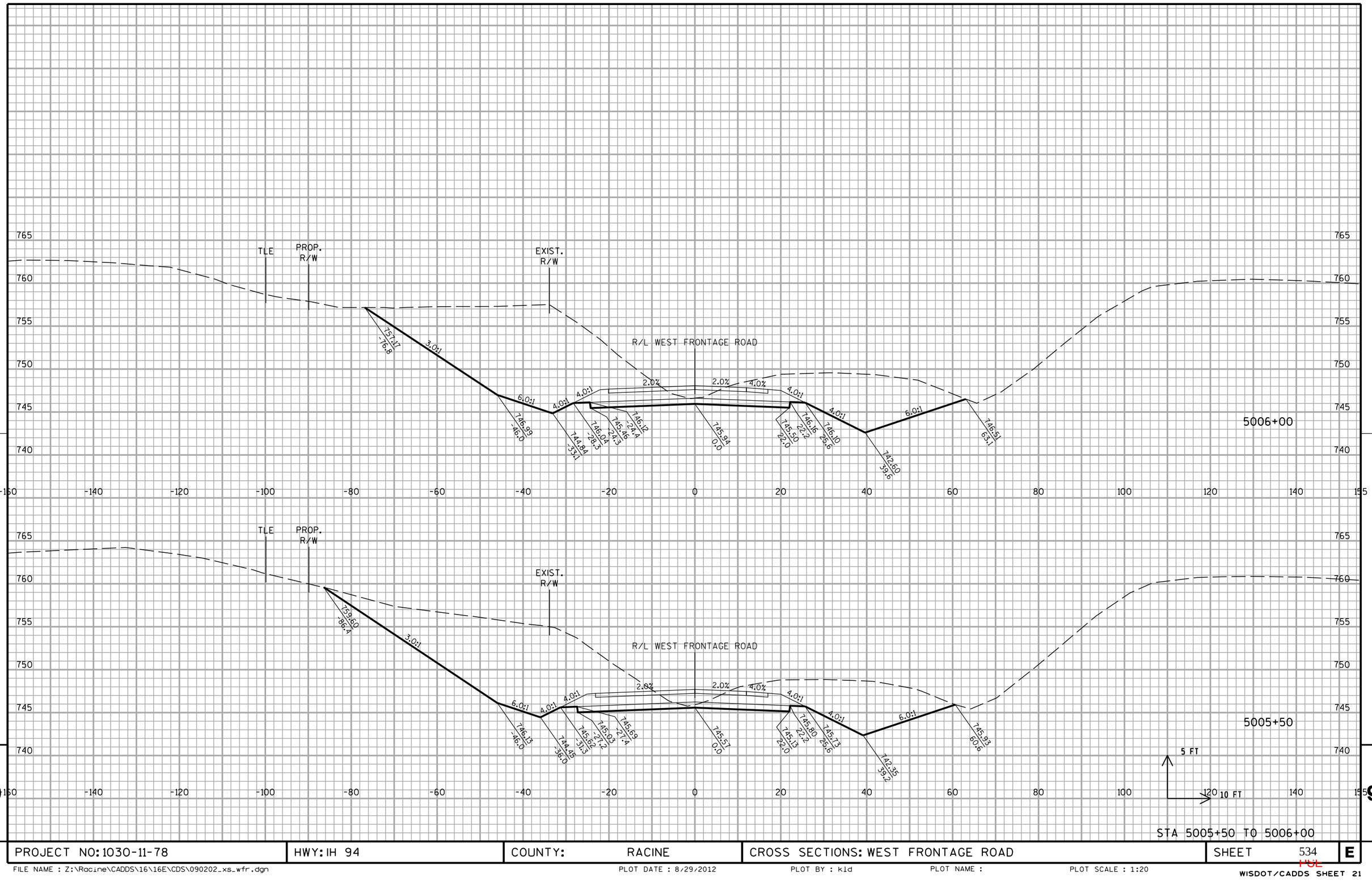
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WISDOT/CADDS SHEET 21



PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 533	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:20



9

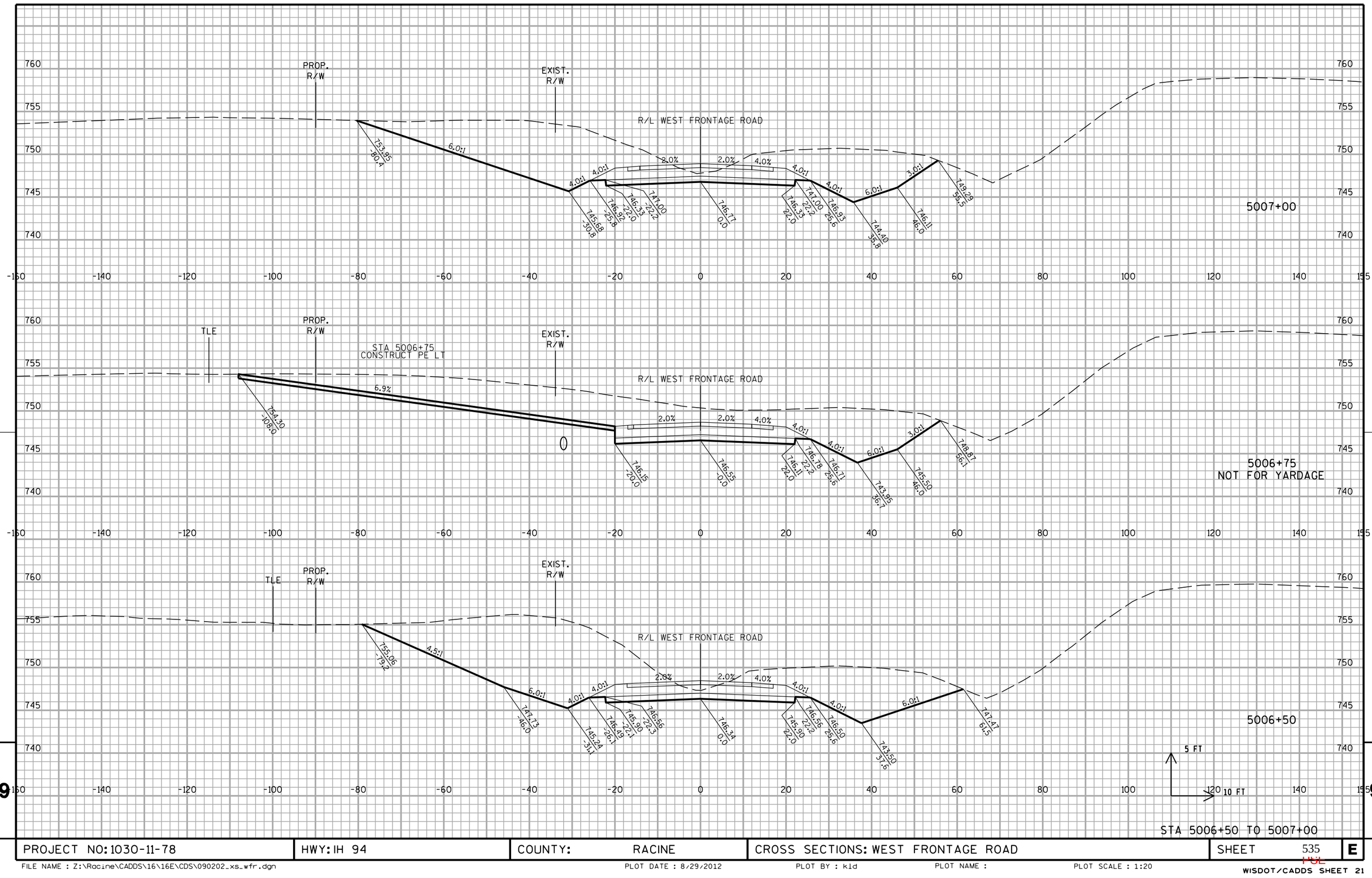
PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 534	E

STA 5005+50 TO 5006+00

9

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : | PLOT SCALE : 1:20

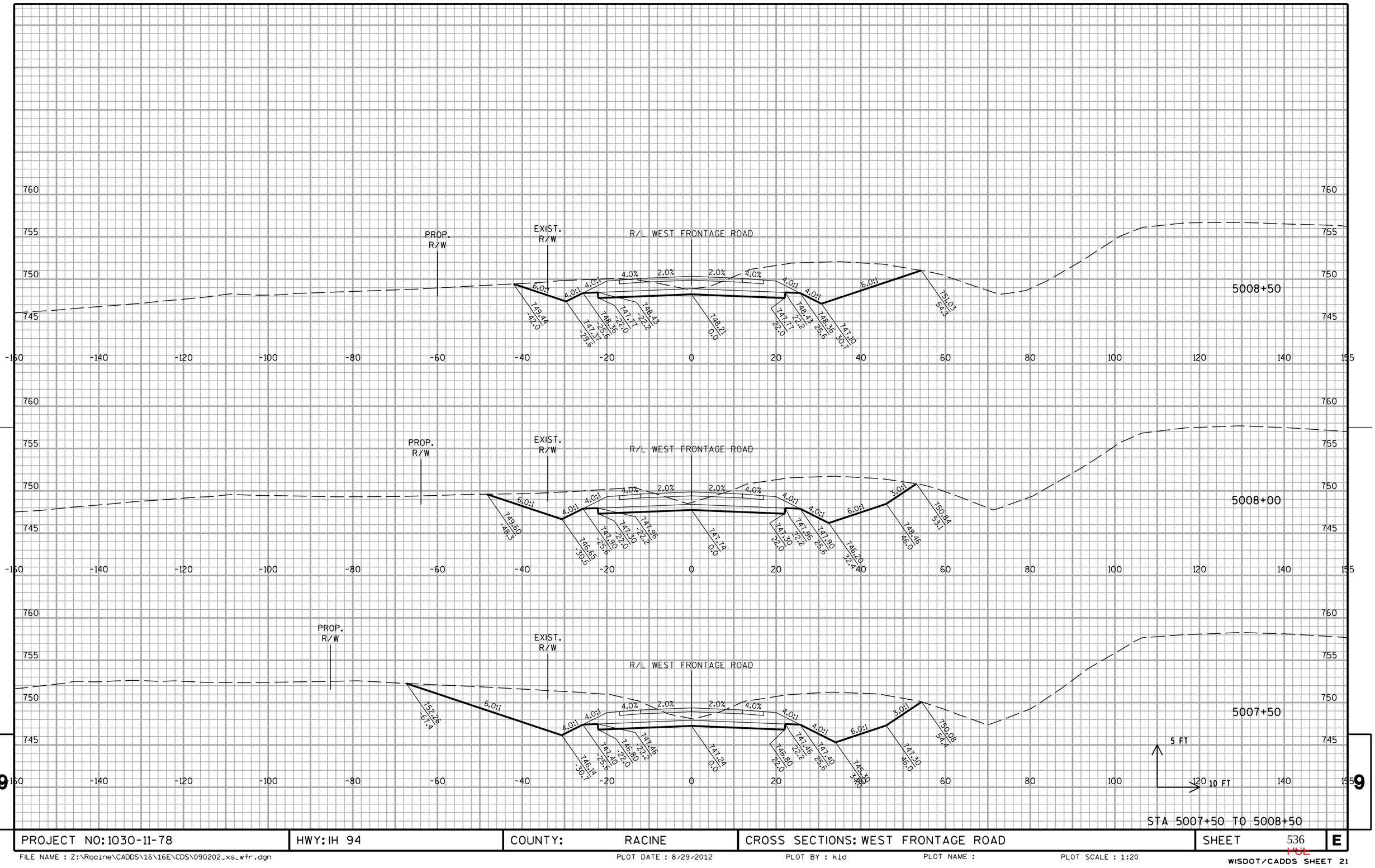
WISDOT/CADDS SHEET 21



PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 535	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : | PLOT SCALE : 1:20

10301177-00008RDAPERM

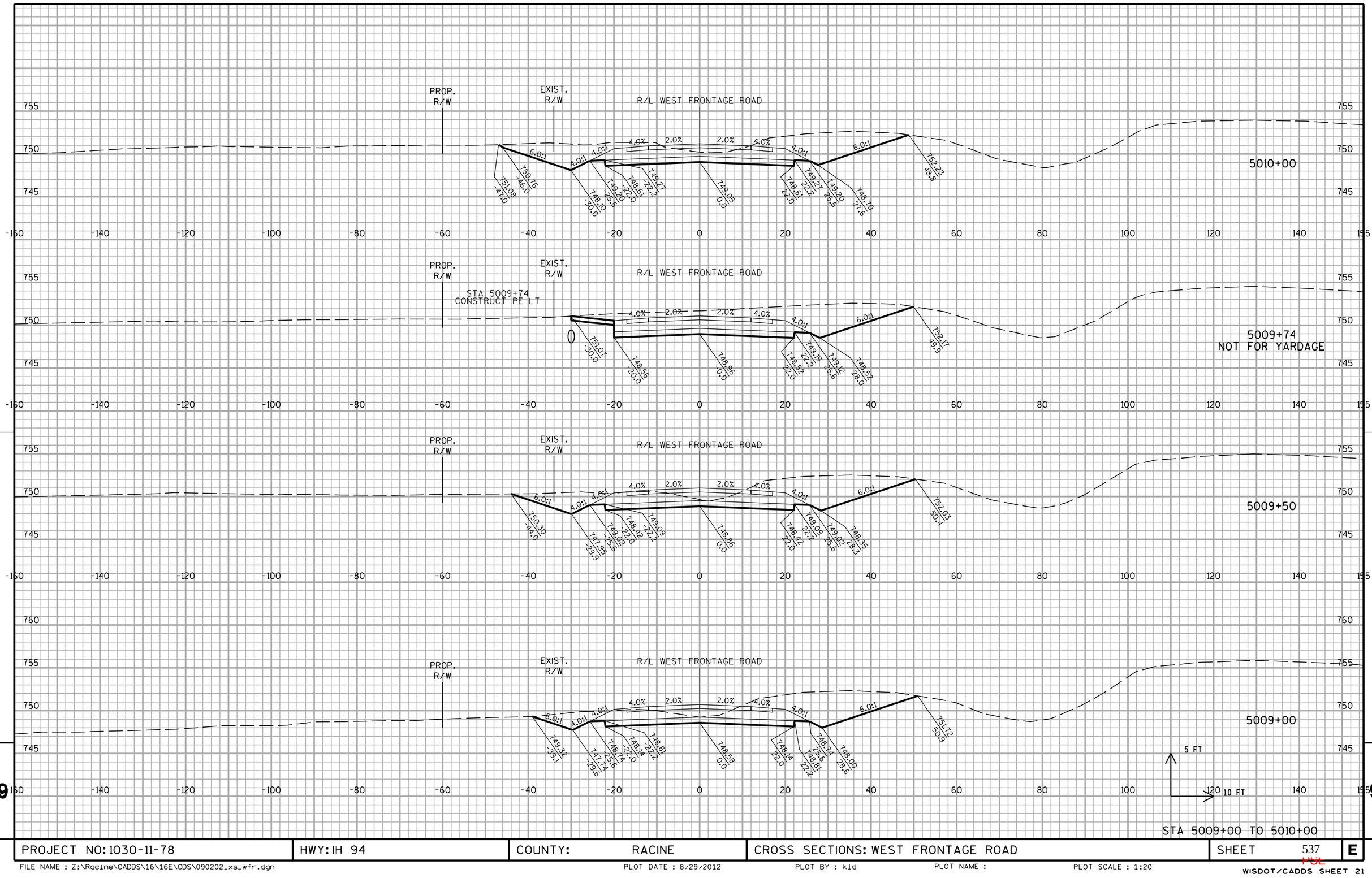


STA 5007+50 TO 5008+50

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 536	E

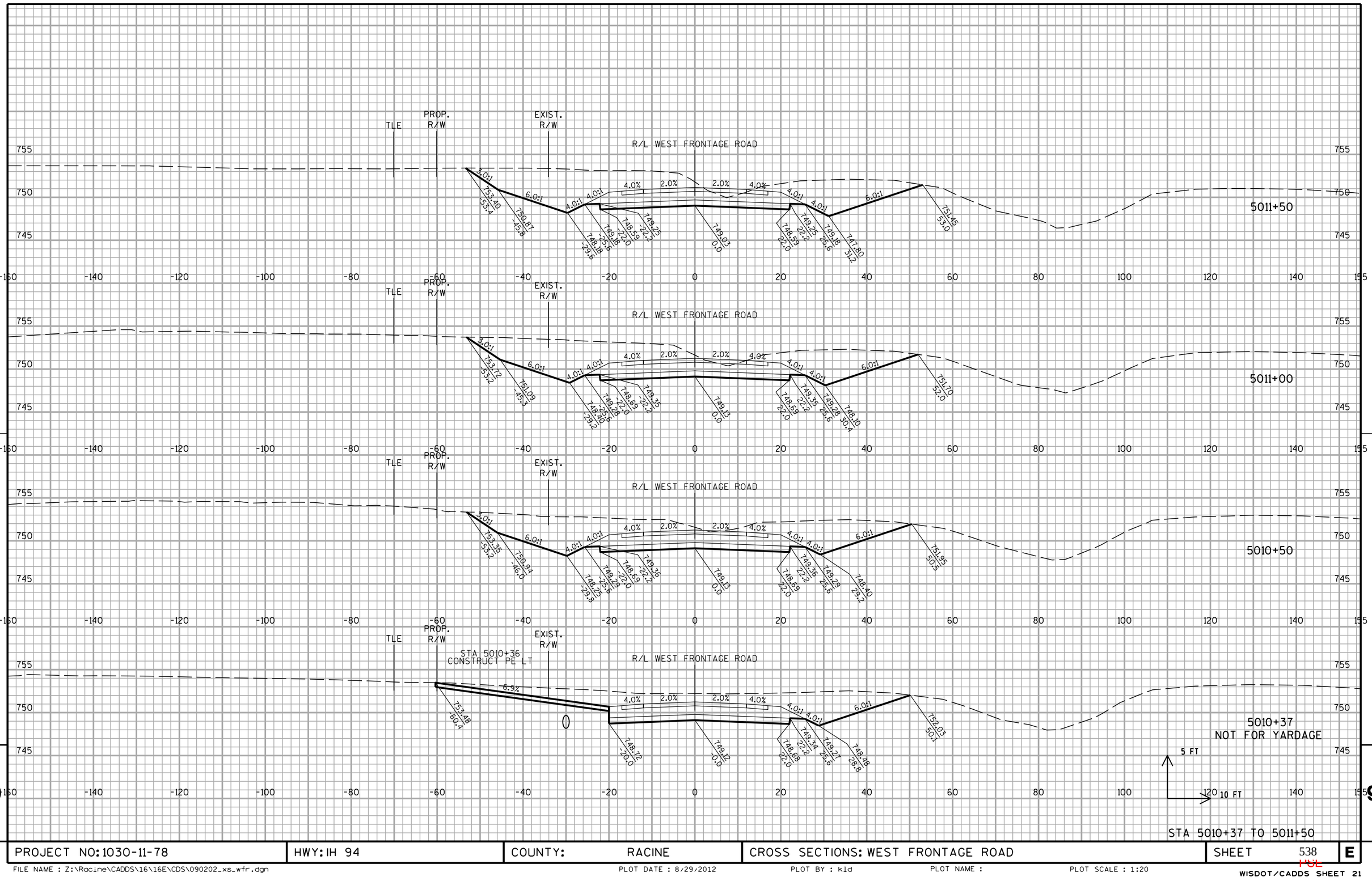
FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



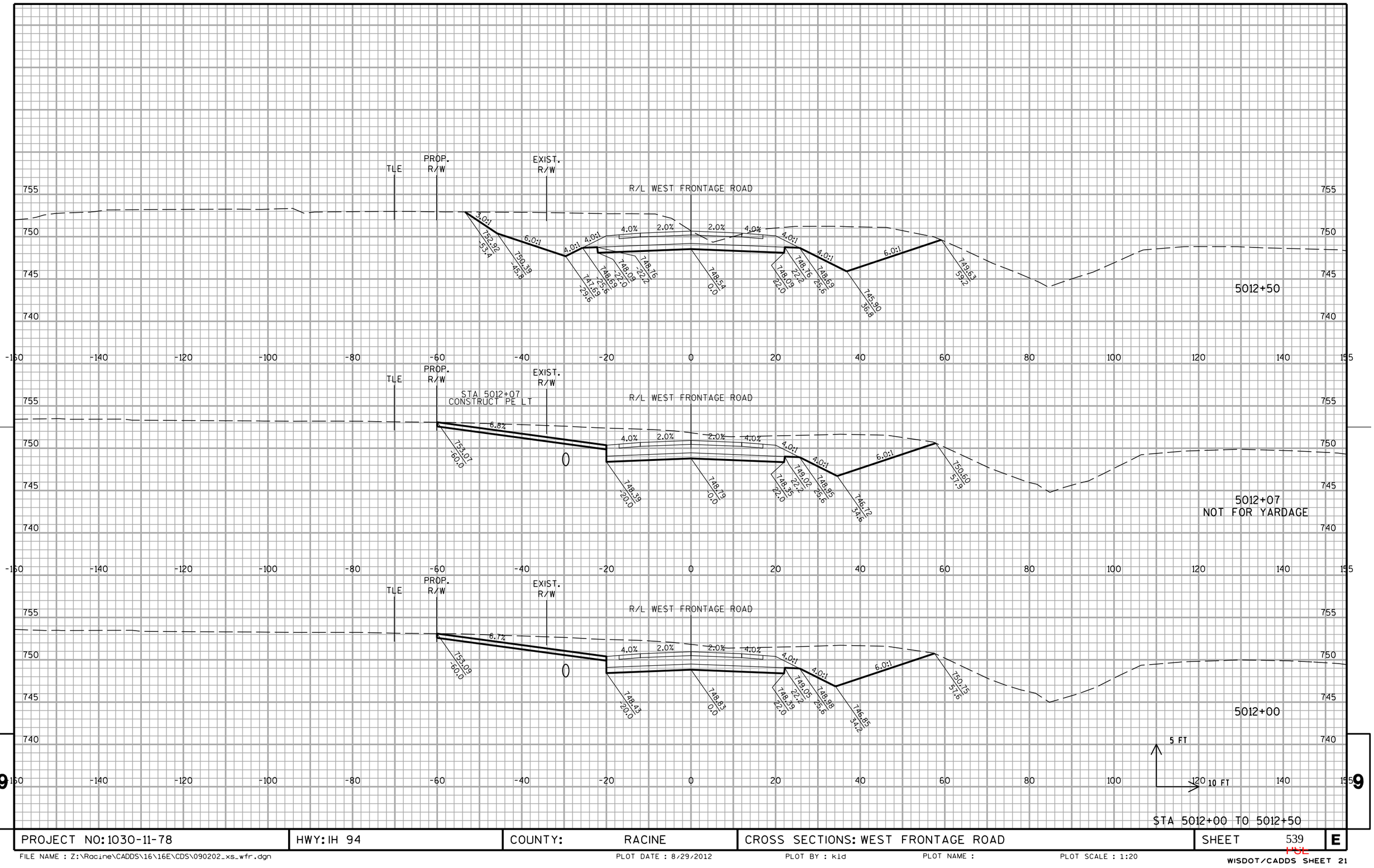
PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 537	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:20



PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 538	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:20

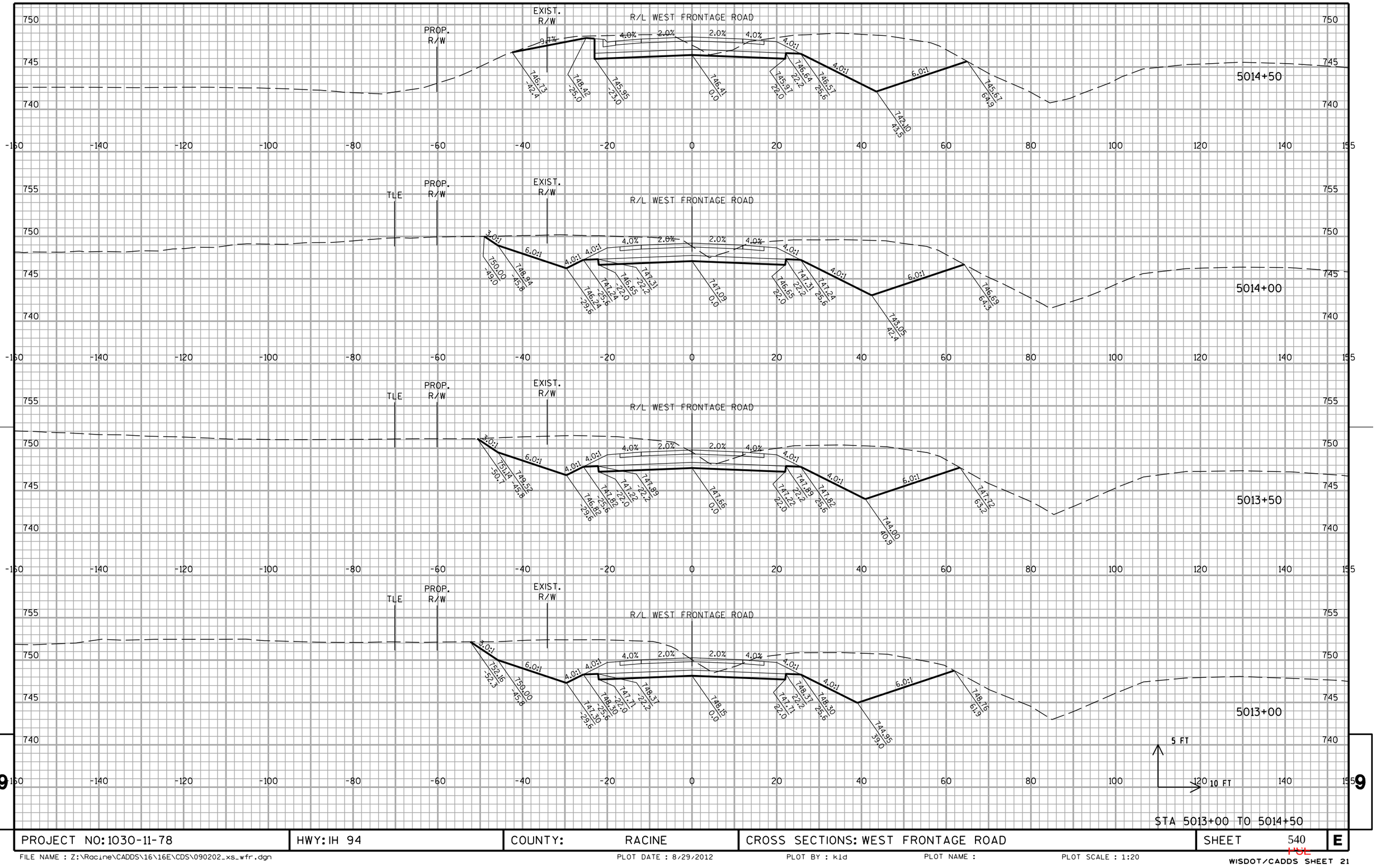


PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 539	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

10301177-00008RDAPERM

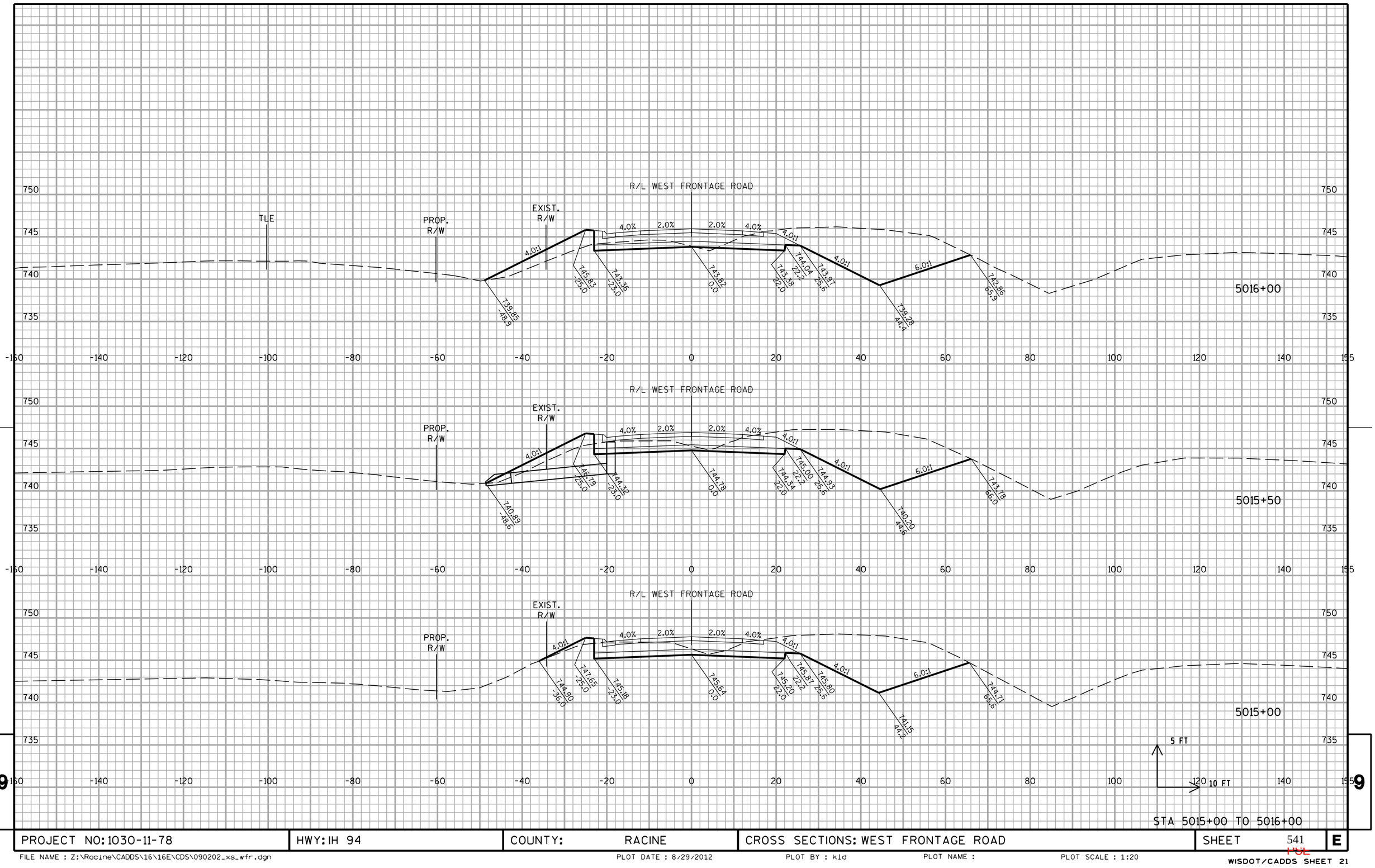


PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 540	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

10301177-00008RDAPERM



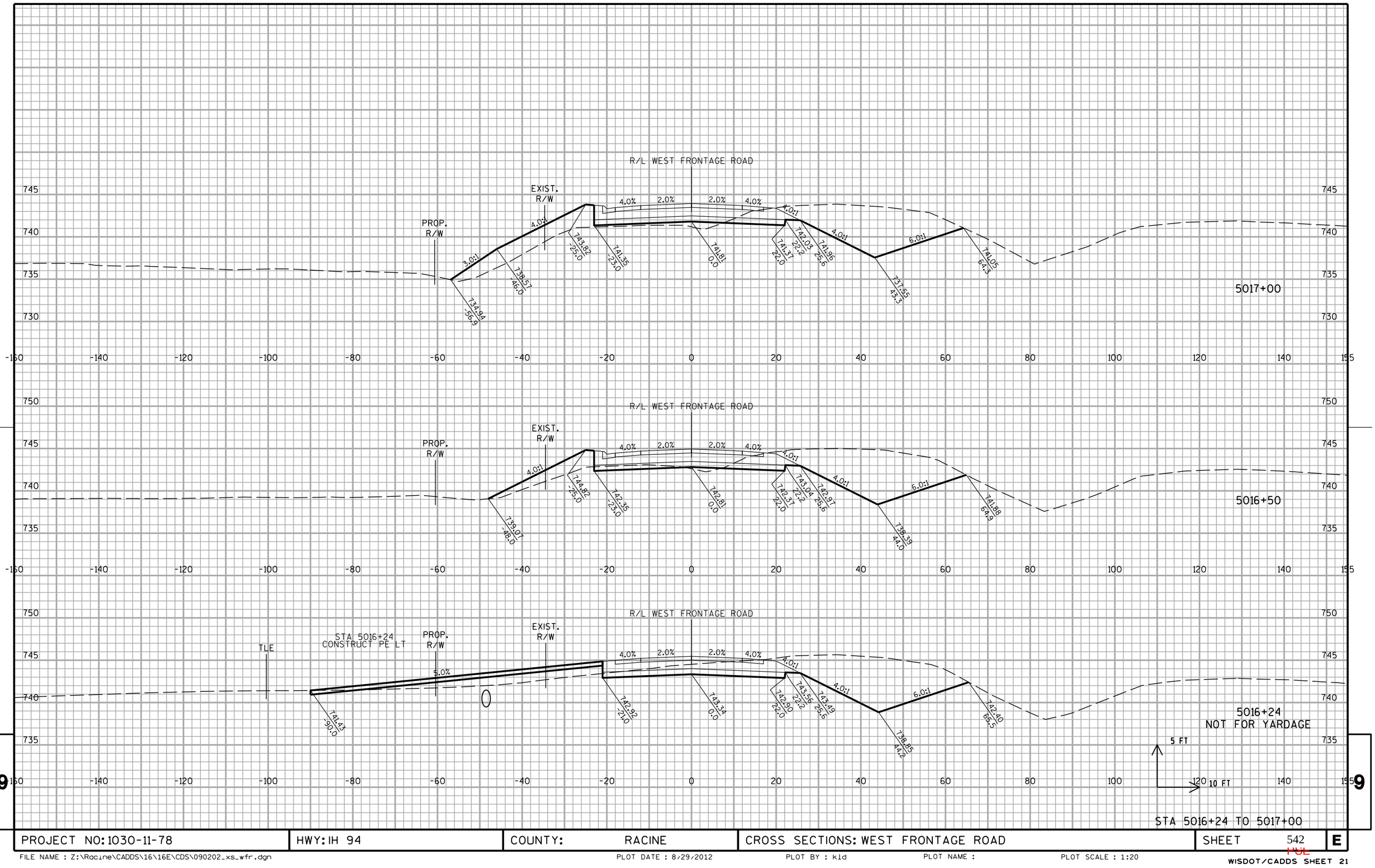
STA 5015+00 TO 5016+00

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 541	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

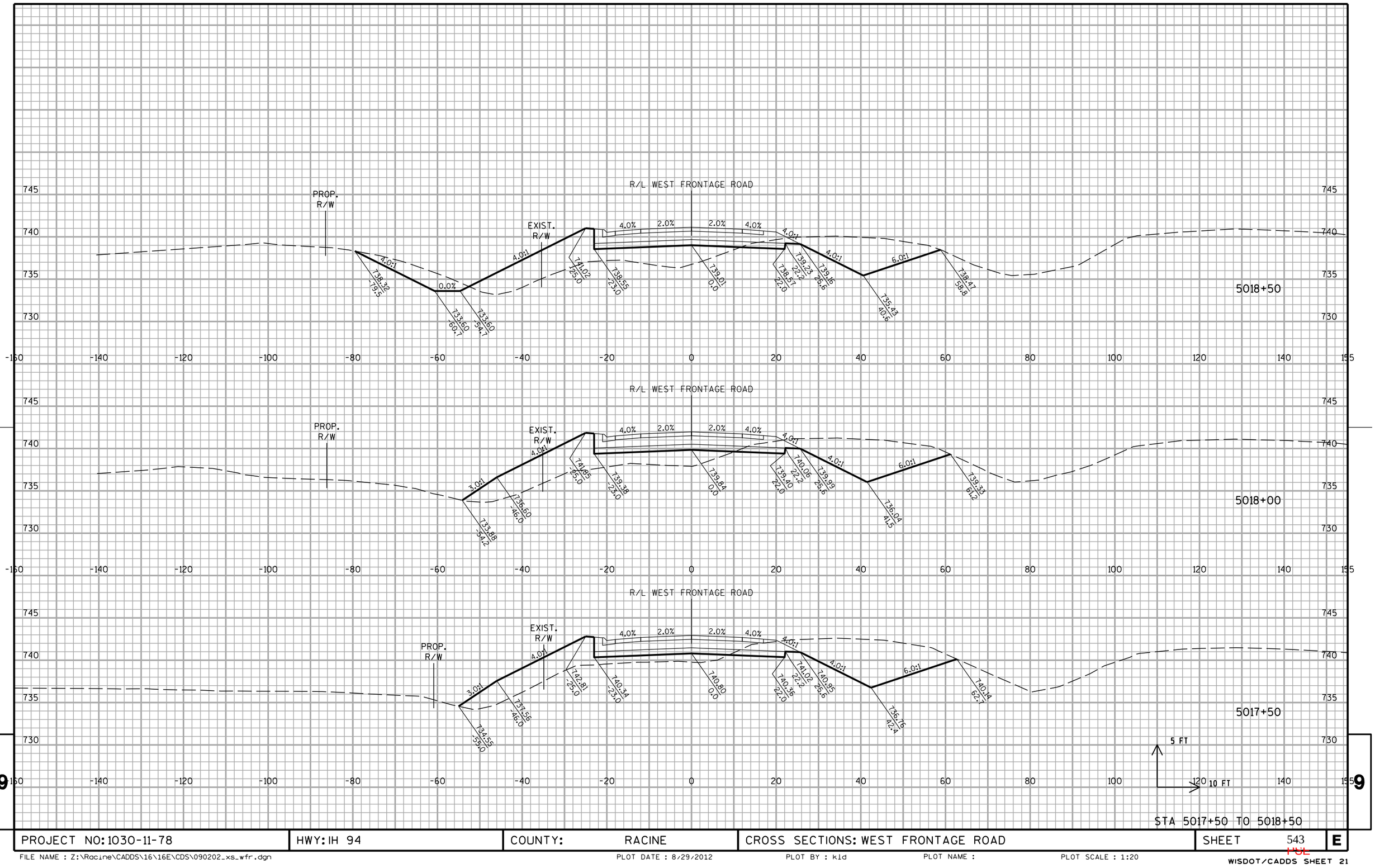
10301177-00008RDAPERM



PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 542	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

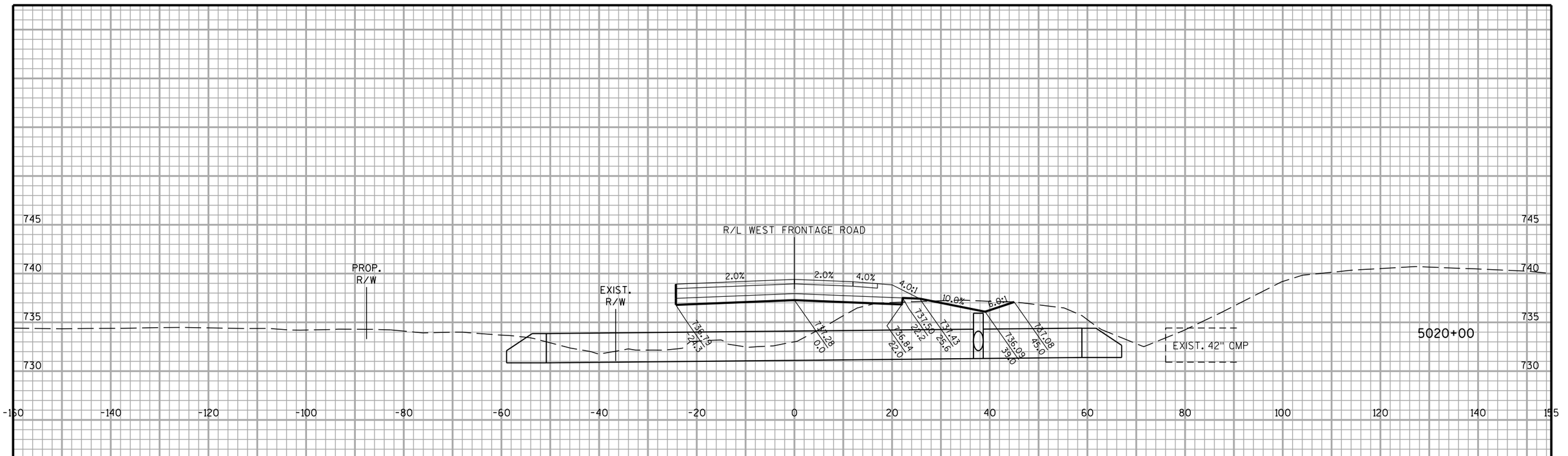


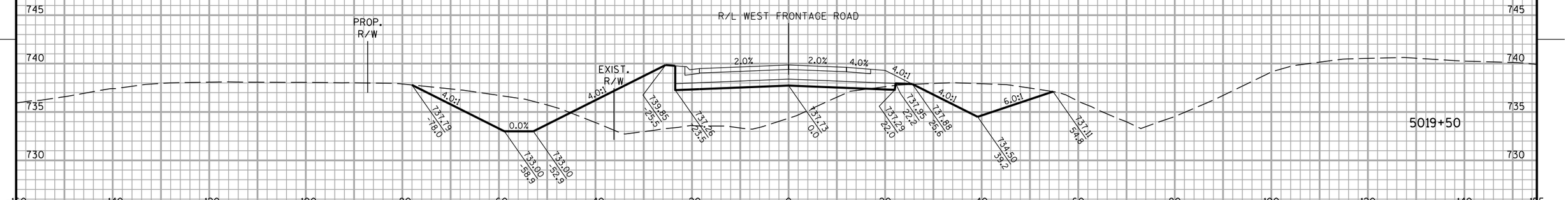
STA 5017+50 TO 5018+50

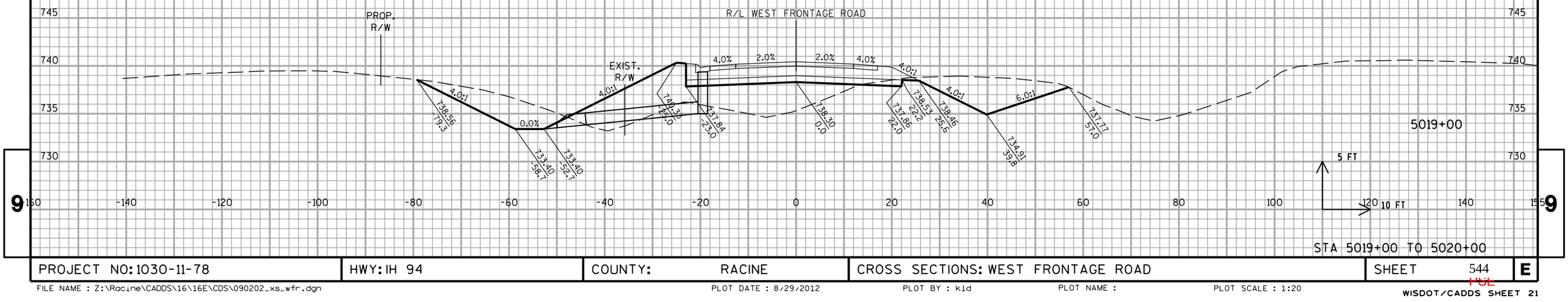
PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 543	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



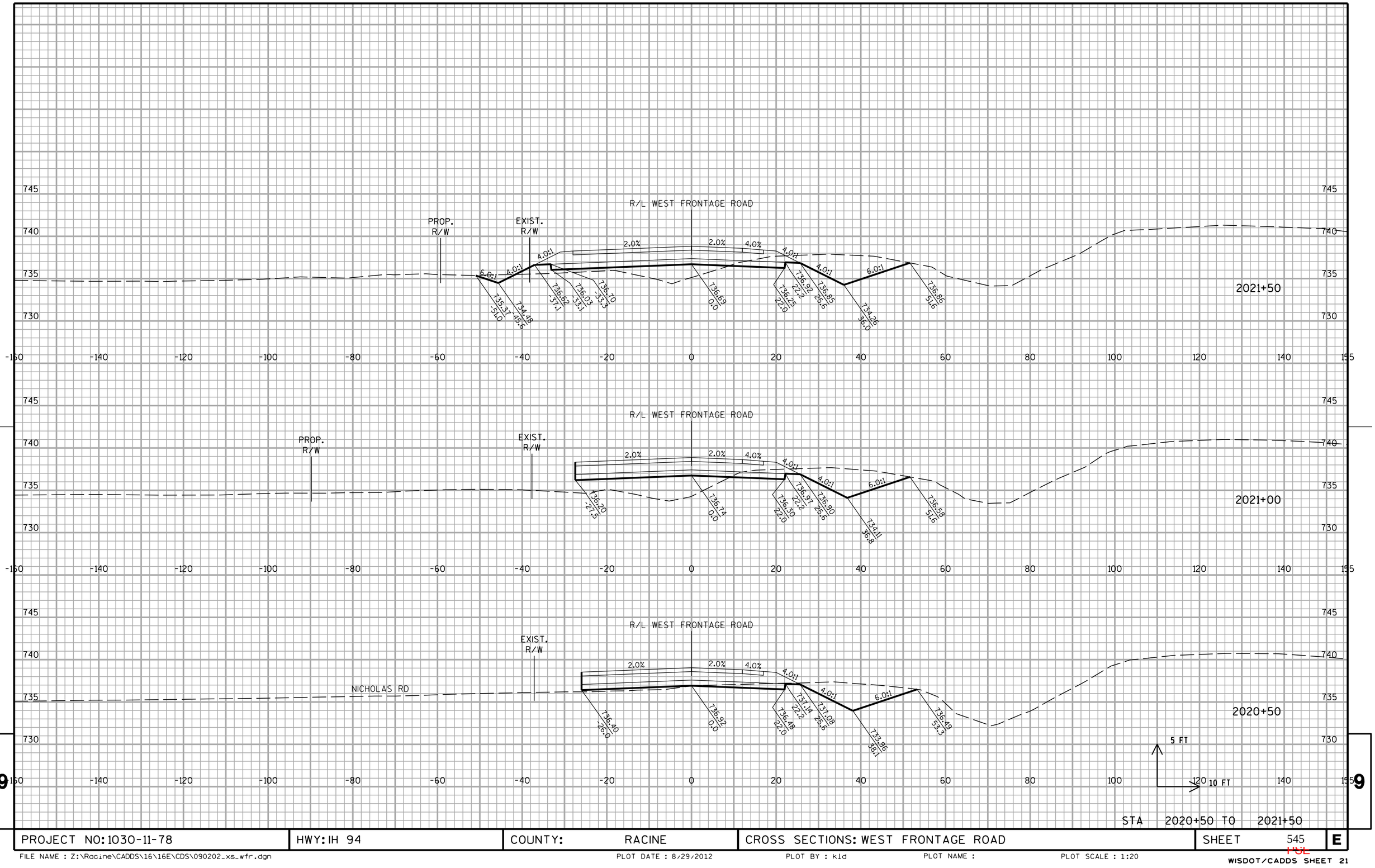




STA 5019+00 TO 5020+00

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 544	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : | PLOT SCALE : 1:20



STA 2020+50 TO 2021+50

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 545	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

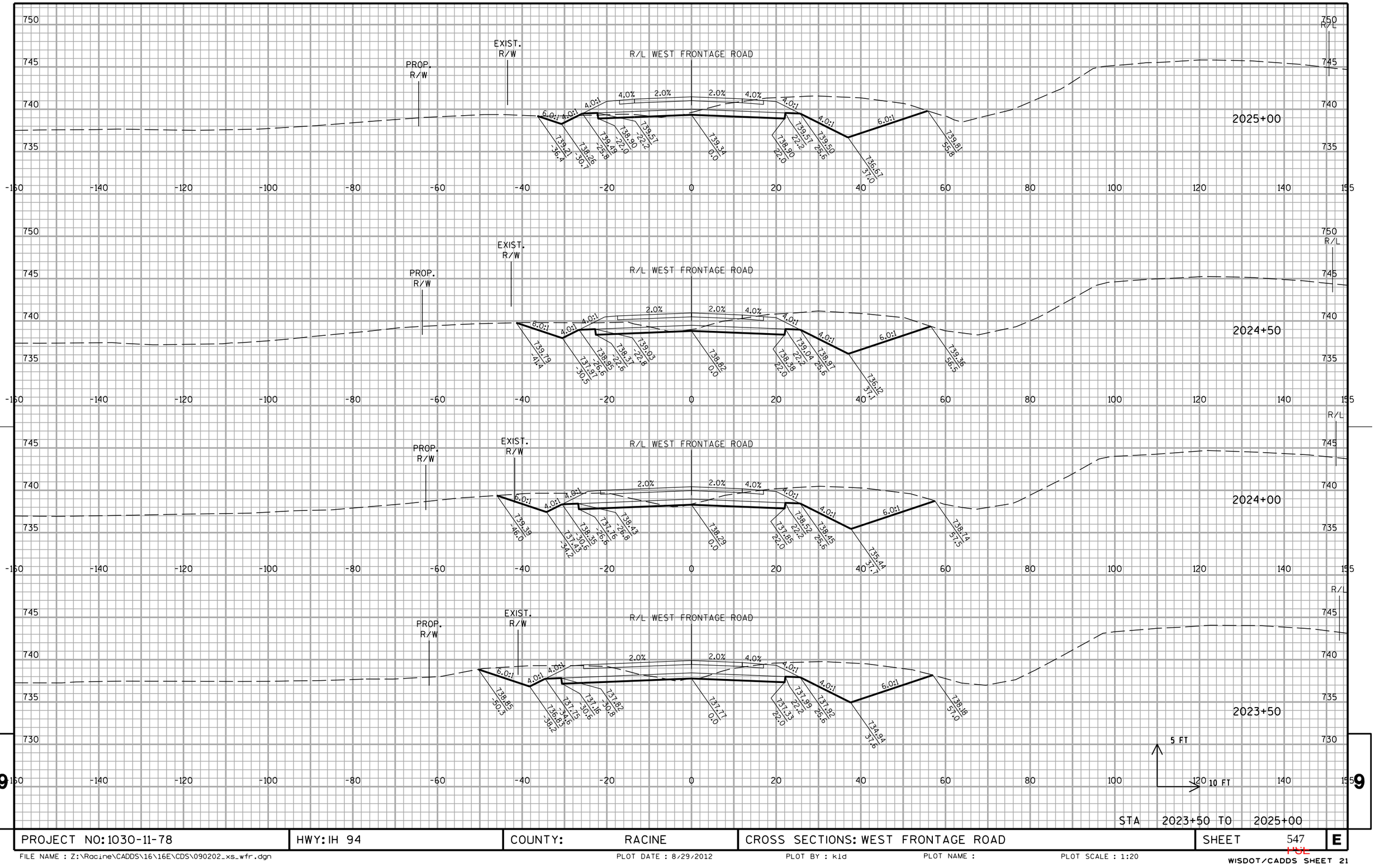
STA 2022+00 TO 2023+00

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 546	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

10301177-00008RDAPERM



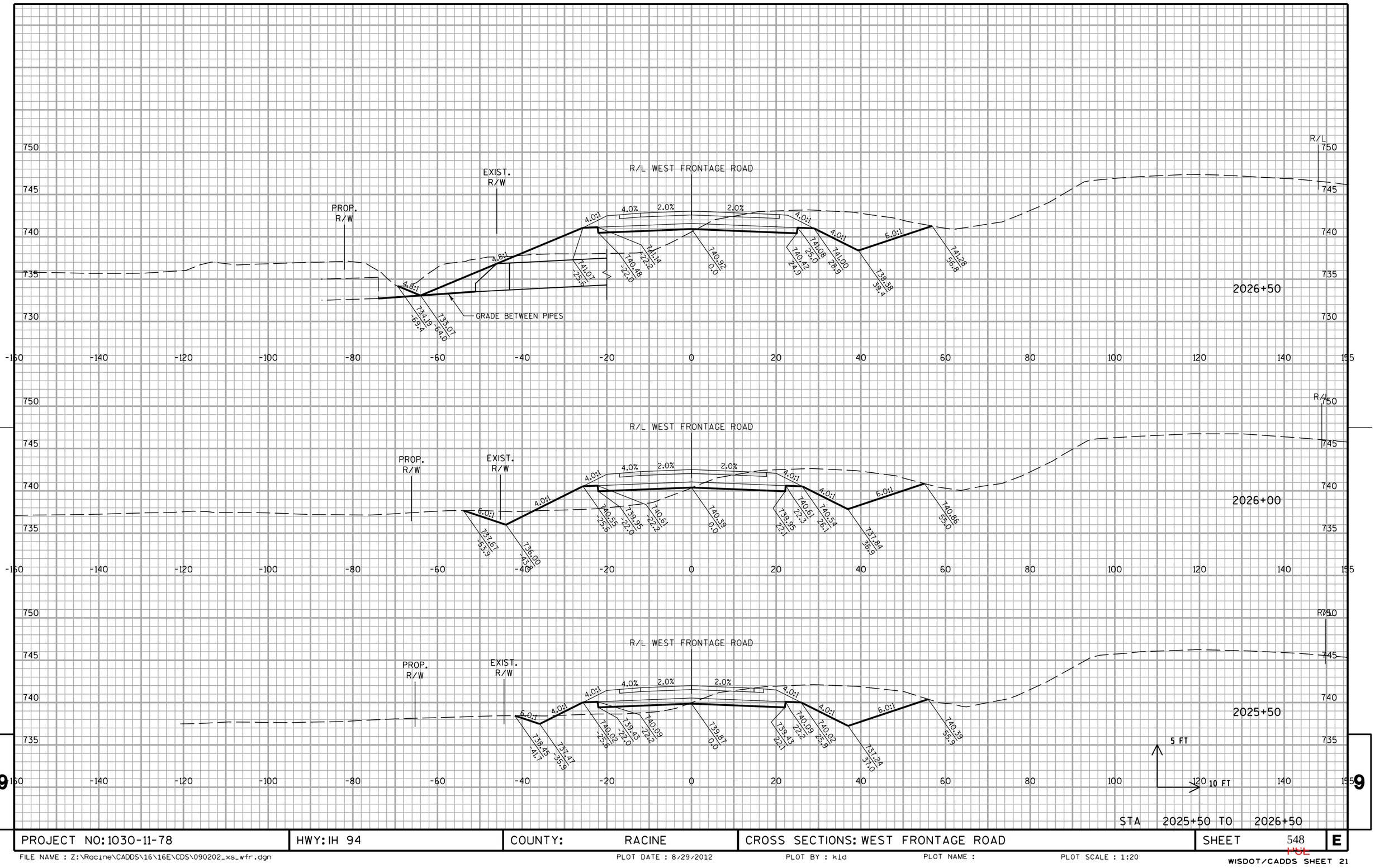
STA 2023+50 TO 2025+00

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 547	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

9 9

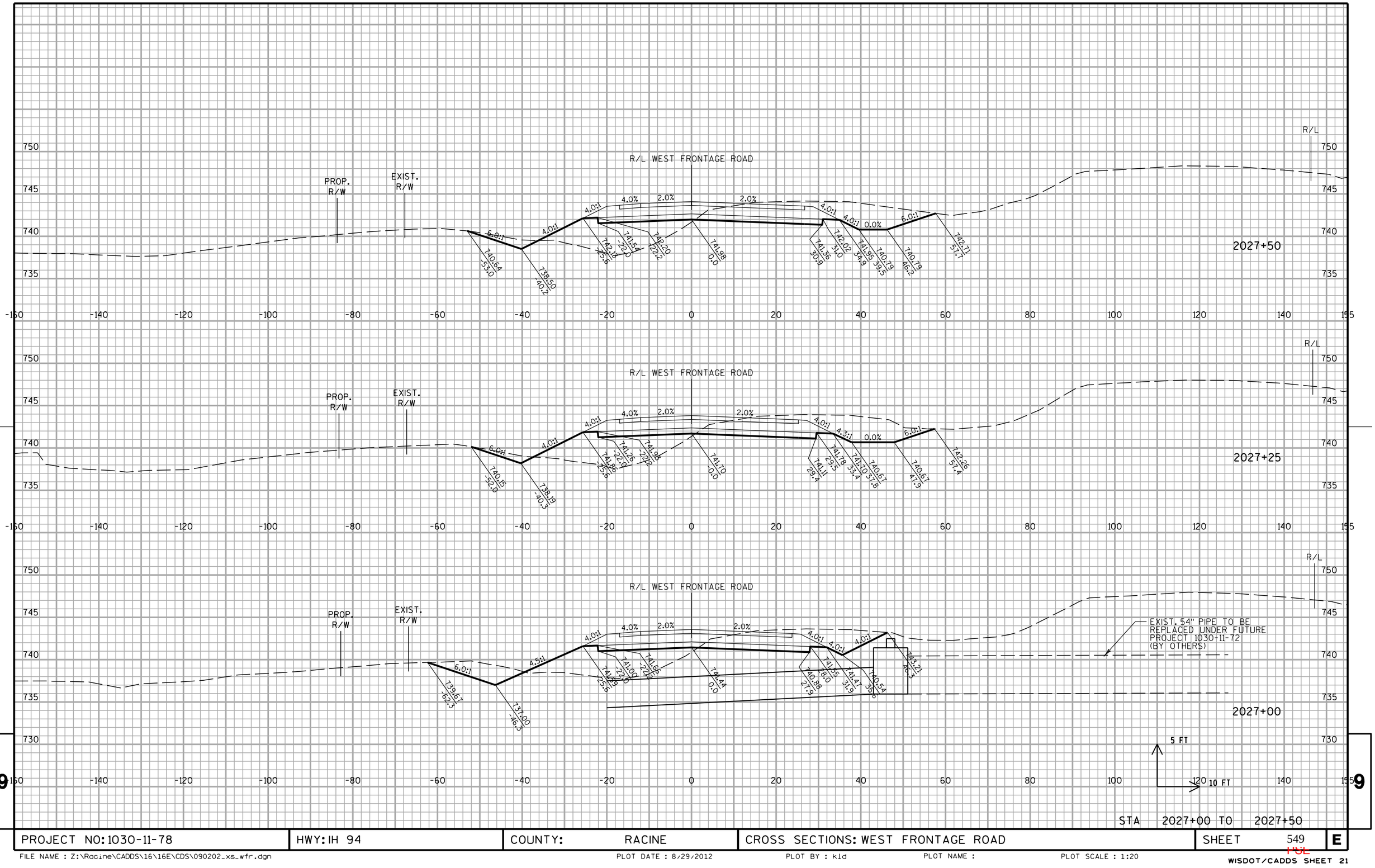


STA 2025+50 TO 2026+50

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 548	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : | PLOT SCALE : 1:20

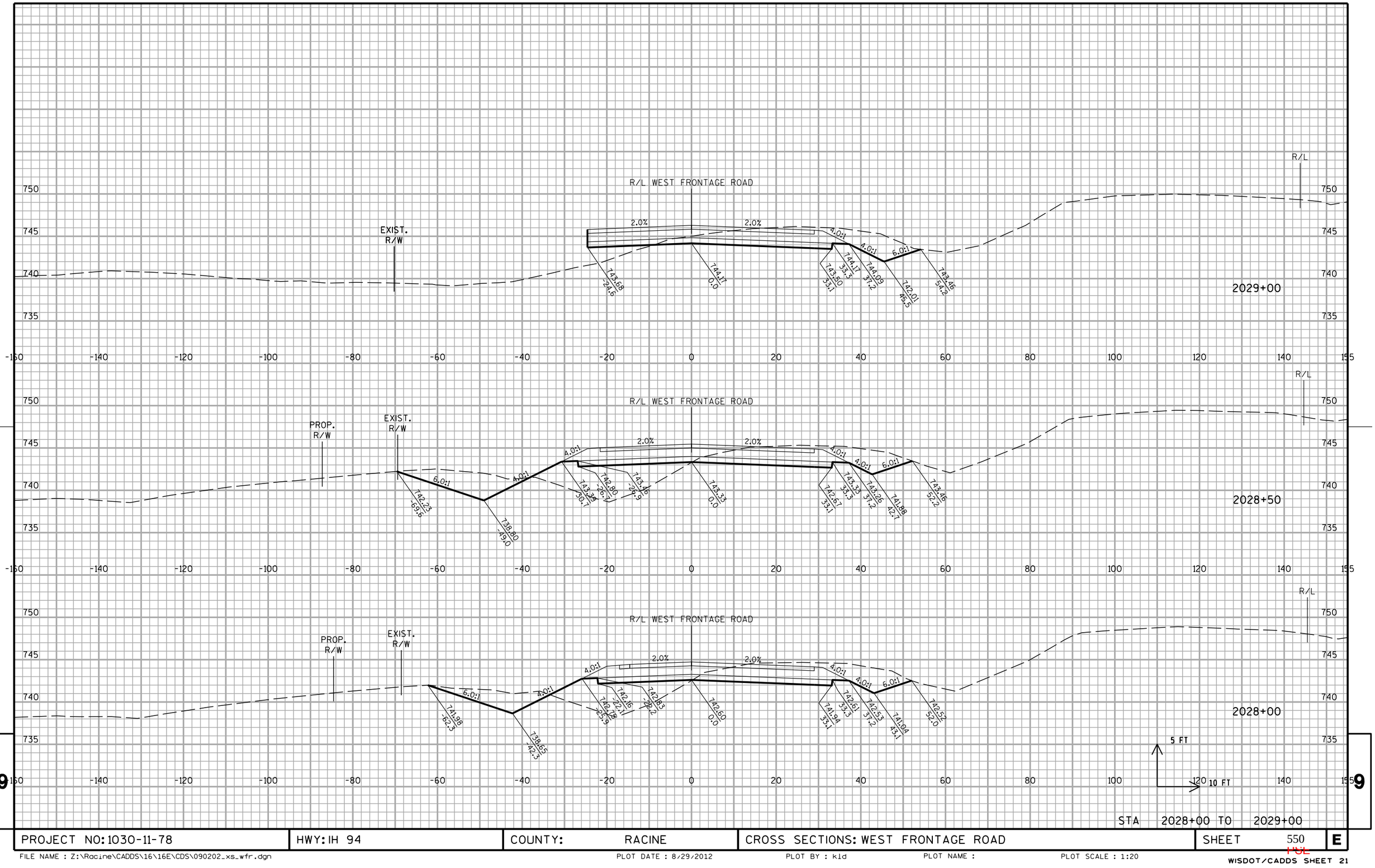
WISDOT/CADDS SHEET 21



STA 2027+00 TO 2027+50

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 549	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:20

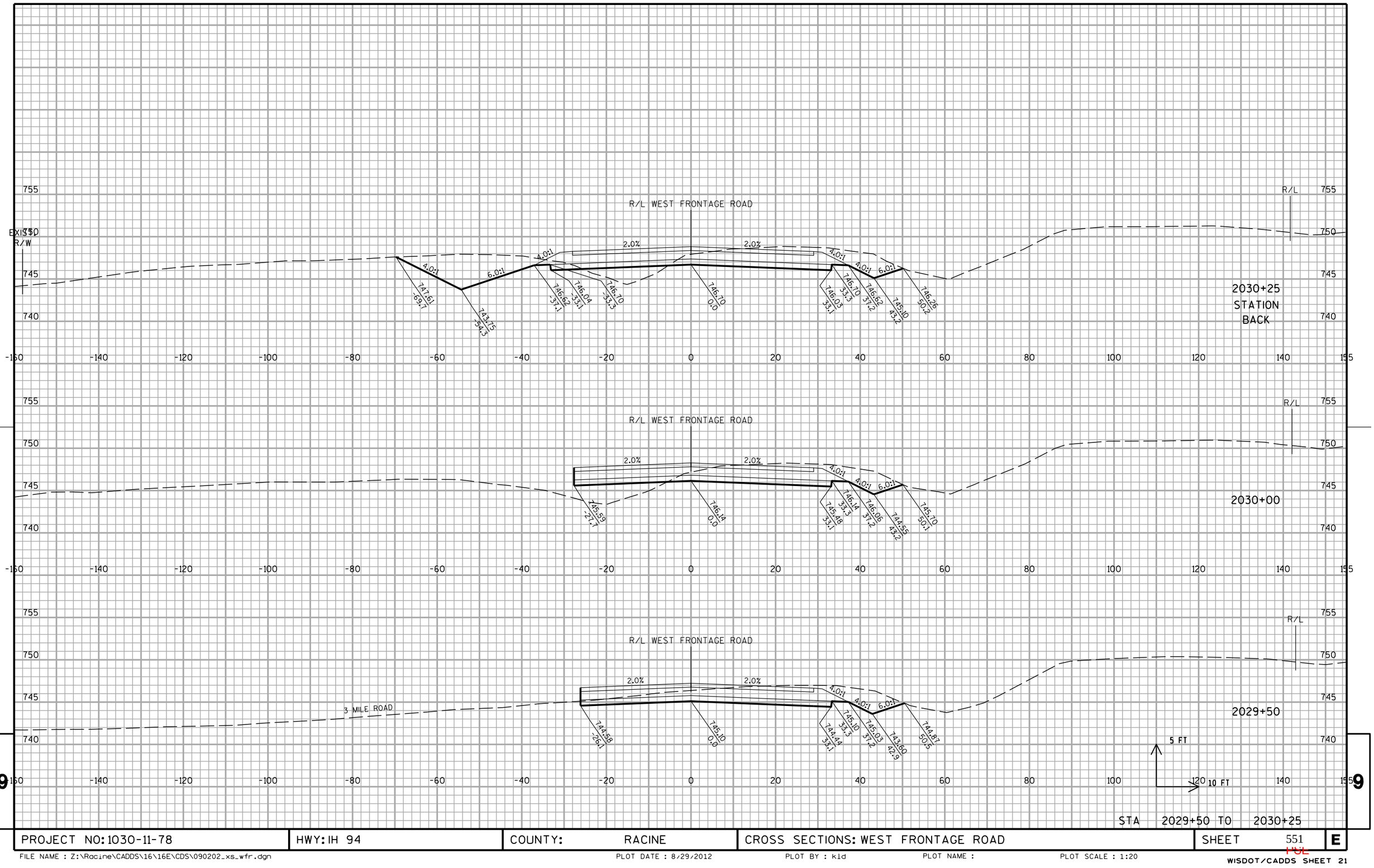


PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 550	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

10301177-00008RDAPERM



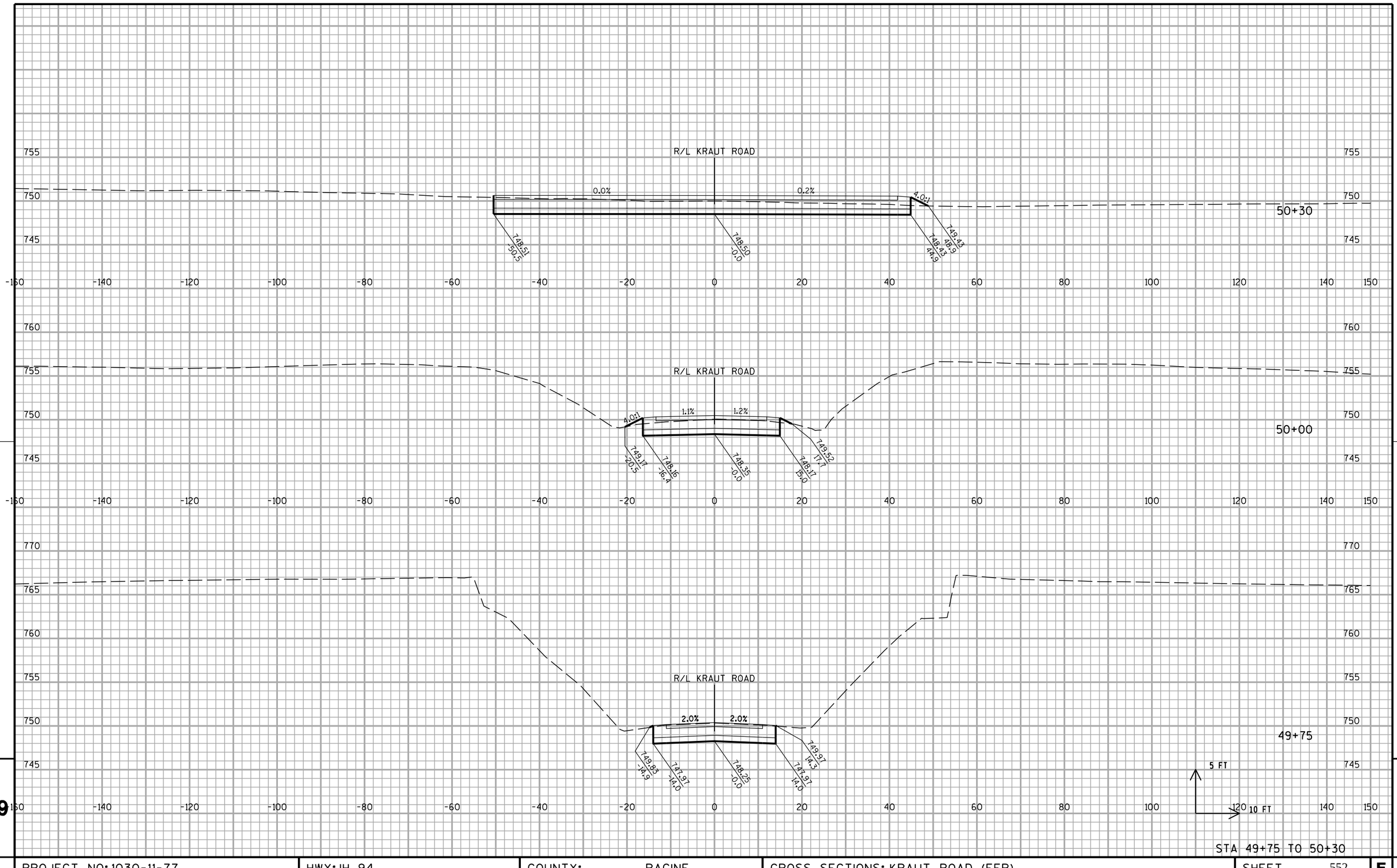
STA 2029+50 TO 2030+25

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 551	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090202_xs_wfr.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

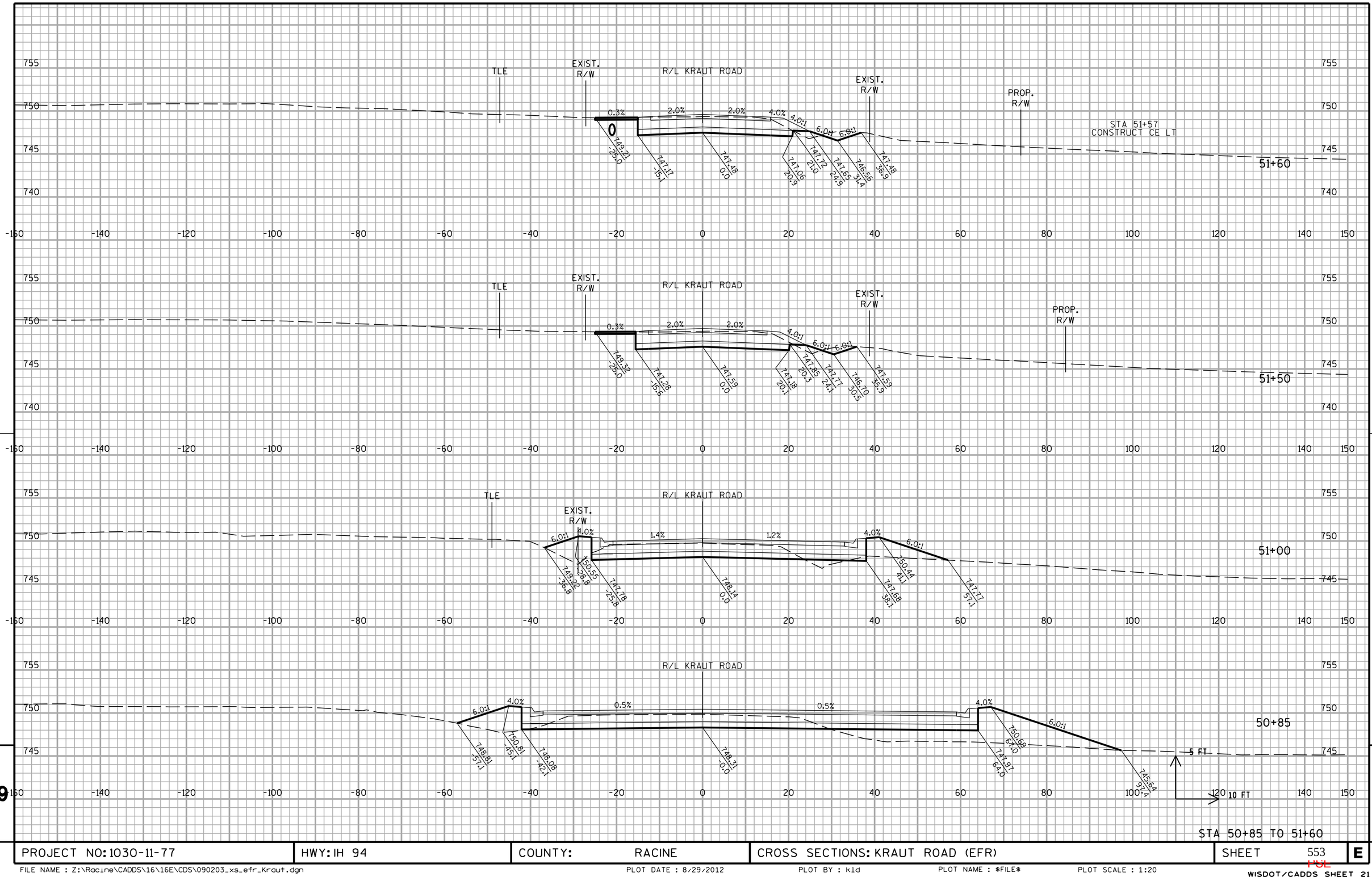
9 9



PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: KRAUT ROAD (EFR)	SHEET 552	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090203_xs_efr_Kraut.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:20

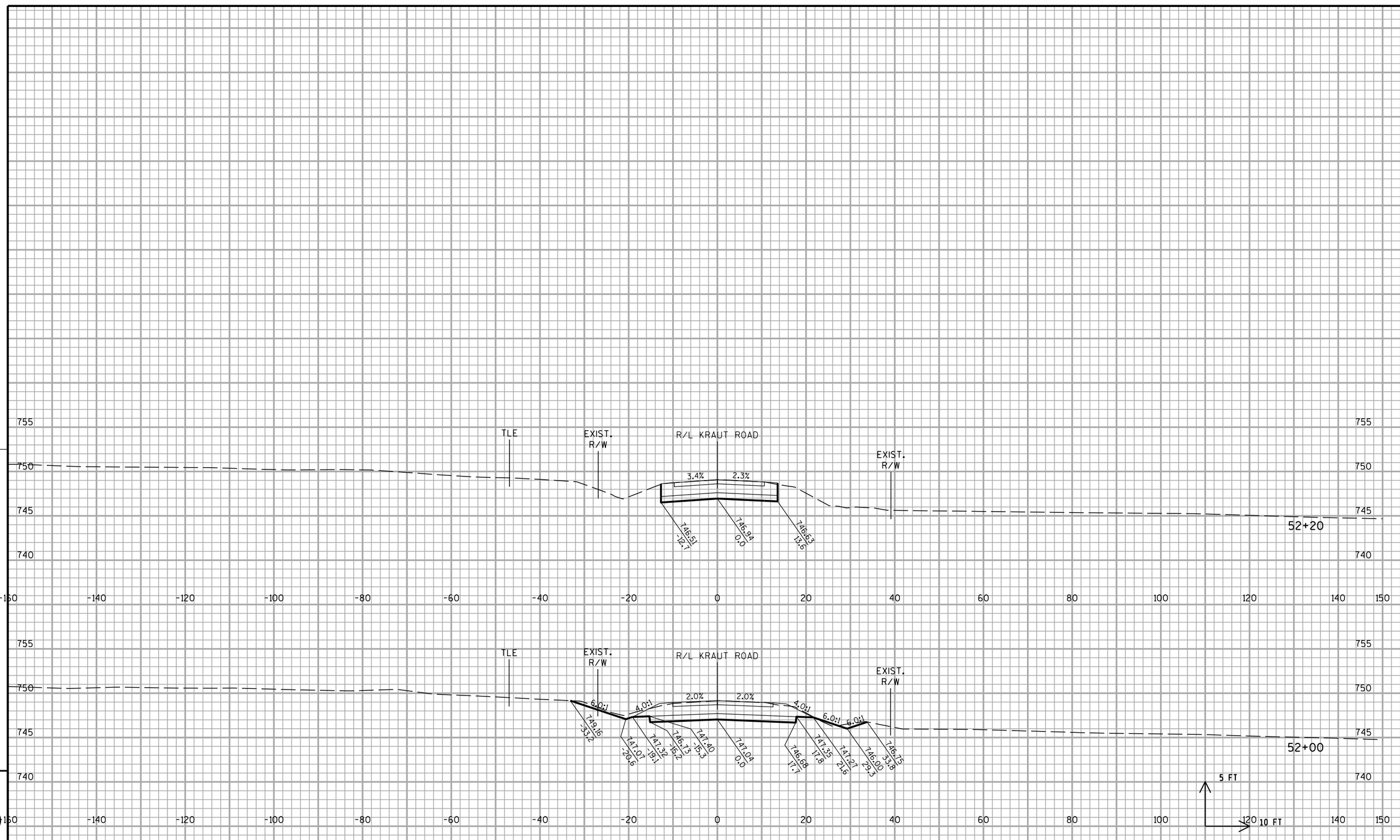
WISDOT/CADDS SHEET 21



PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: KRAUT ROAD (EFR)	SHEET 553	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090203_xs_efr_Kraut.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



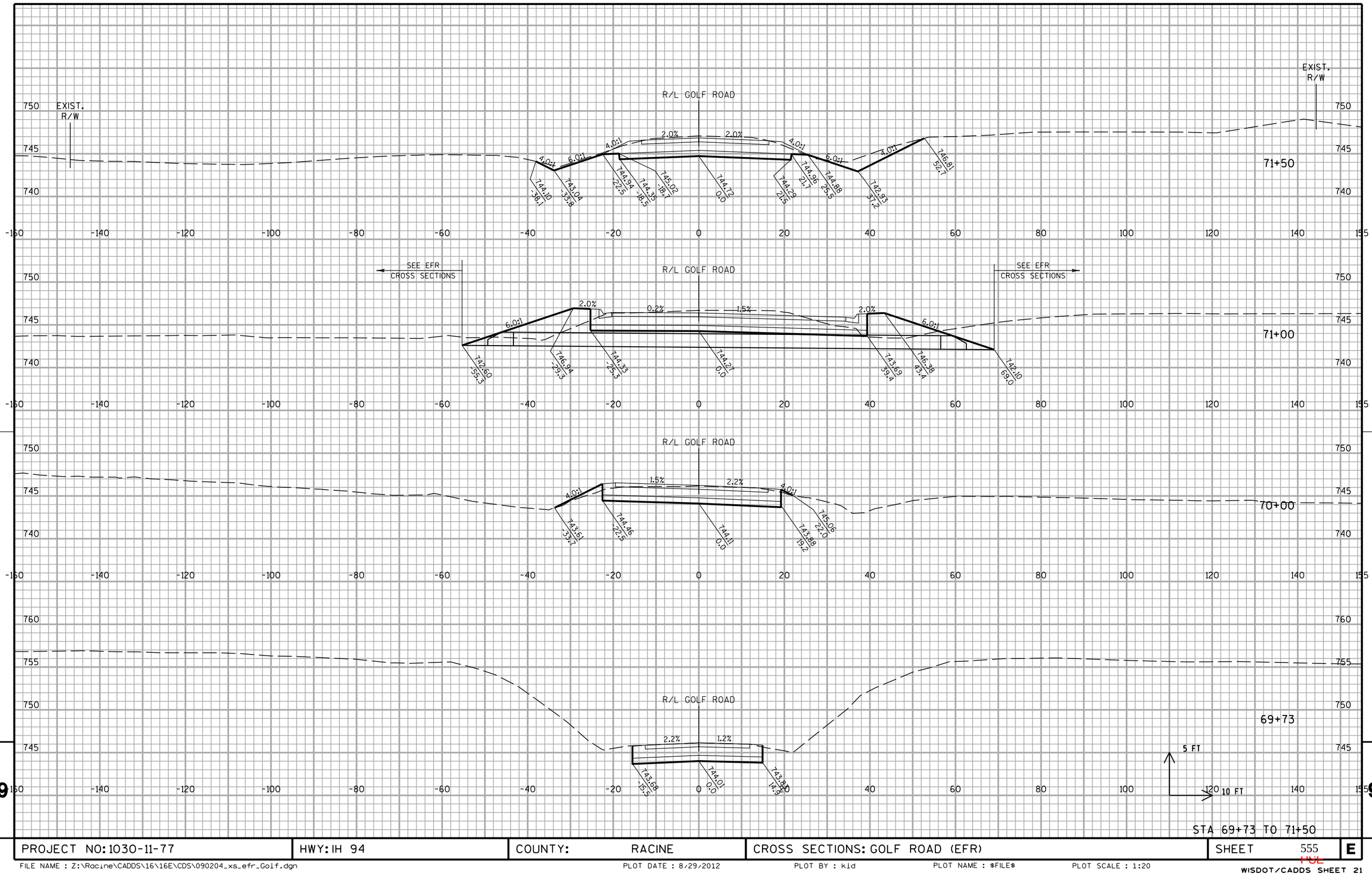
STA 52+00 TO 52+20

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: KRAUT ROAD (EFR)	SHEET 554	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090203_xs_efr_Kraut.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : $FILE$ | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

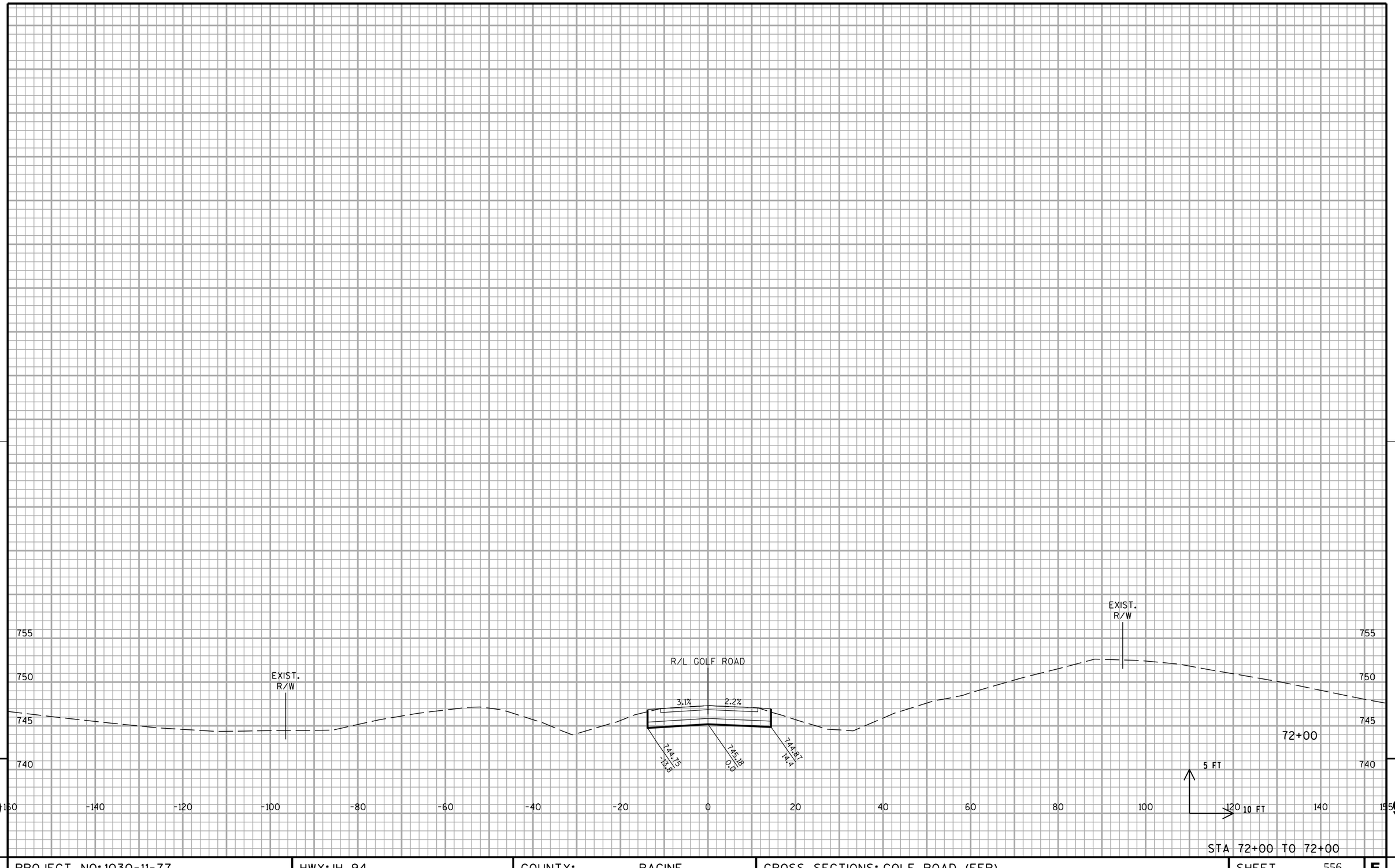
10301177-00008RDAPERM



PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: GOLF ROAD (EFR)	SHEET 555	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090204_xs_efr_Golf.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:20

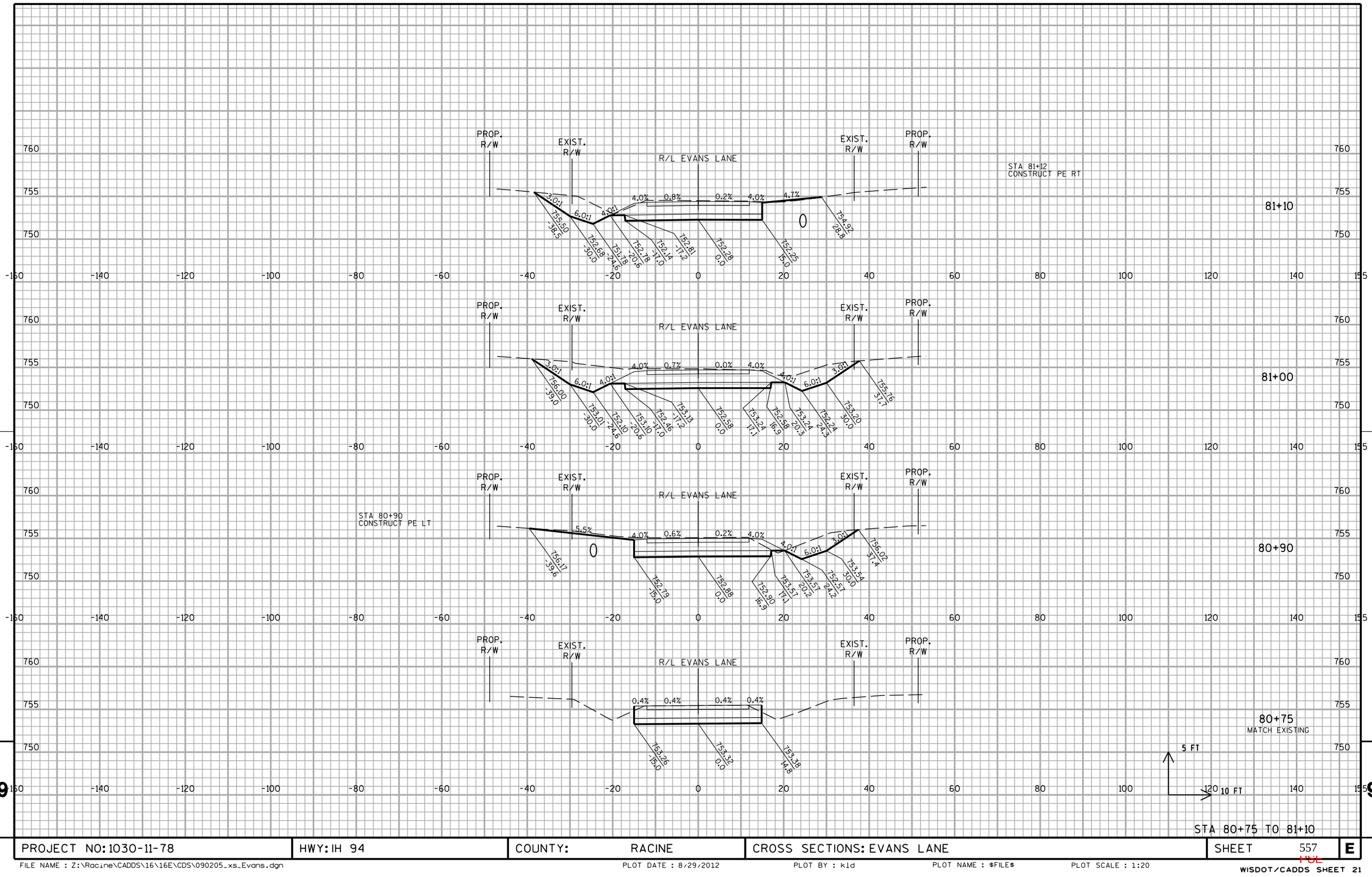
WISDOT/CADDS SHEET 21



STA 72+00 TO 72+00

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: GOLF ROAD (EFR)	SHEET 556	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090204_xs_efr_Golf.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:20



PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EVANS LANE	SHEET 557	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090205_xs_Evans.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : $FILE$ | PLOT SCALE : 1:20

SEE WFR CROSS SECTIONS

R/L EVANS LANE

SEE WFR CROSS SECTIONS

82+72

4.0% 1.7% 0.0% 4.0%

746.81 -61.7

747.85 0.0

747.84 44.1

82+55

748.96 -34.8

4.0% 3.0% 1.7% 4.0% 10.0:1

749.79 -36.6

747.11 -31.8

748.08 0.0

747.65 25.2

750.43 28.2

749.49 37.6

82+50

750.43 31.1

4.0% 3.2% 2.1% 4.0% 10.0:1

749.90 -35.4

747.27 -28.1

748.17 0.0

747.69 22.8

750.50 25.8

749.54 35.4

PROP. R/W

EXIST. R/W

R/L EVANS LANE

EXIST. R/W

PROP. R/W

STA 81+90 CONSTRUCT PE LT

STA 81+94 CONSTRUCT PE RT

82+00

2.1% 4.0% 1.8% 1.6% 4.6% 8.0%

751.86 -44.0

749.25 -18.3

749.58 0.0

749.71 36.7

755.47 45.0

PROP. R/W

EXIST. R/W

R/L EVANS LANE

EXIST. R/W

PROP. R/W

81+50

3.0:1 6.0:1 4.6% 4.0% 1.2% 0.8% 4.0% 4.9% 6.0:1 3.0:1

753.53 36.8

751.36 30.0

750.49 -29.9

751.43 20.8

750.87 17.1

751.53 17.2

751.08 0.0

751.61 17.3

750.94 17.1

751.58 20.7

750.58 24.7

751.46 30.0

754.40 38.8

5 FT

10 FT

STA 81+50 TO 82+72

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: EVANS LANE	SHEET 558	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090205_xs_Evans.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

MATCH EXISTING

R/L KRAUT ROAD

4.0% 0.1% 0.8% 4.0%

749.38 -25.9 | 749.34 0.0 | 749.14 24.5

48+00 STATION AHEAD

MATCH WEST FRONTAGE ROAD INTERSECTION

R/L KRAUT ROAD

6.0:1 | 4.0:1 | 4.0% | 0.7% | 2.0% | 4.0% | 4.0:1 | 6.0:1

751.73 -58.0 | 749.25 -43.2 | 752.84 -26.8 | 750.14 -26.6 | 750.33 -0.4 | 749.91 20.3 | 752.68 22.3 | 747.95 41.2 | 749.54 50.8

47+00 STATION BACK

EXIST. R/W

R/L KRAUT ROAD

6.0:1 | 4.0:1 | 4.0% | 2.0% | 2.0% | 4.0% | 4.0:1 | 6.0:1 | 6.0:1

752.16 -48.0 | 749.50 -32.1 | 750.86 -23.9 | 750.27 -19.9 | 750.94 -20.1 | 750.65 -0.8 | 750.21 16.8 | 750.97 17.0 | 750.89 20.8 | 748.75 33.6 | 750.33 43.1

46+50

EXIST. R/W

R/L KRAUT ROAD

4.0% 2.1% 2.5% 4.0%

750.58 -15.2 | 750.87 -1.1 | 750.52 13.1

46+16 STATION AHEAD

5 FT | 10 FT

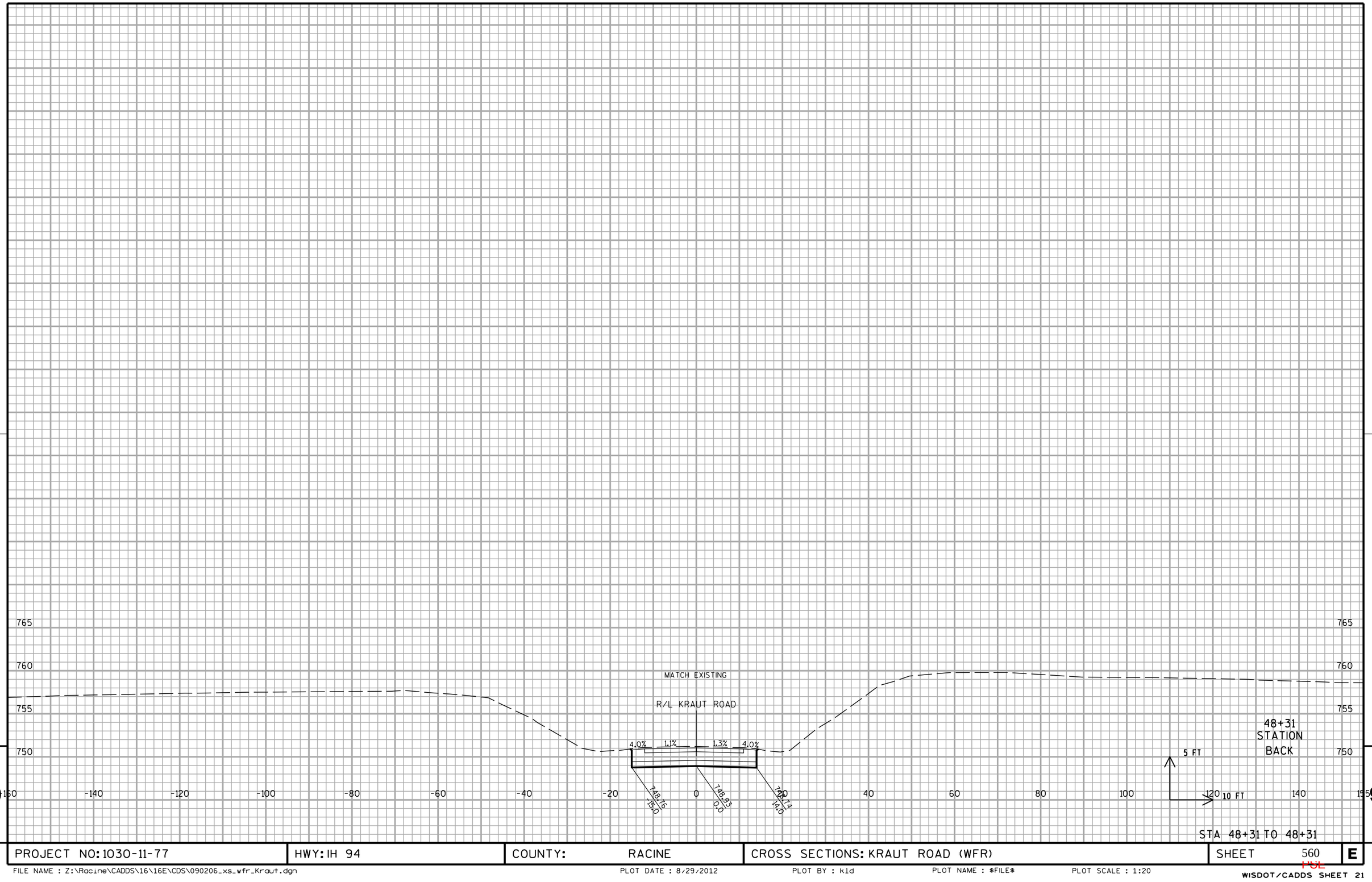
STA 46+16 TO 48+00

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: KRAUT ROAD (WFR)	SHEET 559	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090206_xs_wfr_Kraut.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : $FILE$ | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

10301177-00008RDAPERM



STA 48+31 TO 48+31

9 9

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: KRAUT ROAD (WFR)	SHEET 560	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090206_xs_wfr_Kraut.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

SEE WFR CROSS SECTIONS

R/L 2 MILE ROAD

0.5% 0.9%

768.82 -75.4 | 769.43 -0.3 | 768.00 48.1

9+75
STATION BACK

R/L 2 MILE ROAD

15.0:1 6.0:1 4.0% 2.0% 2.0% 2.0% 4.0% 6.0:1 4.0:1

768.09 -93.2 | 766.00 -62.1 | 770.15 -37.2 | 767.35 -34.2 | 768.02 -0.6 | 767.57 22.2 | 766.25 49.9 | 771.00 69.0

EXIST. R/W

9+50

EXIST. R/W

R/L 2 MILE ROAD

15.0:1 6.0:1 4.0:1 4.0% 2.0% 2.0% 4.0% 4.0:1 6.0:1 4.0:1

768.32 -59.4 | 766.42 -31.0 | 767.40 -25.1 | 766.81 -21.1 | 767.48 -21.3 | 767.88 -1.2 | 766.84 17.4 | 767.50 17.5 | 767.43 21.4 | 766.45 27.2 | 769.32 38.1

9+00

EXIST. R/W

R/L 2 MILE ROAD

4.0% 3.0% 1.3% 4.0%

766.27 -16.6 | 766.73 1.6 | 766.54 13.3

8+70
STATION AHEAD

5 FT 10 FT

STA 8+70 TO 9+75

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: 2 MILE ROAD	SHEET 561	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090207_xs_2Mile.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

760

755

750

745

740

R/L GOLF ROAD

4.0% 0.2% 2.6% 4.0%

743.06 -18.5

743.10 0.0

742.63 18.0

68+00
STATION BACK

-160 -140 -120 -100 -80 -60 -40 -20 0 20 40 60 80 100 120 140 155

750

745

740

R/L GOLF ROAD

4.0% 0.5% 1.2% 4.0%

743.47 -32.2

743.30 0.0

742.88 35.8

67+75
STATION AHEAD

5 FT

10 FT

-160 -140 -120 -100 -80 -60 -40 -20 0 20 40 60 80 100 120 140 155

STA 67+75 TO 68+00

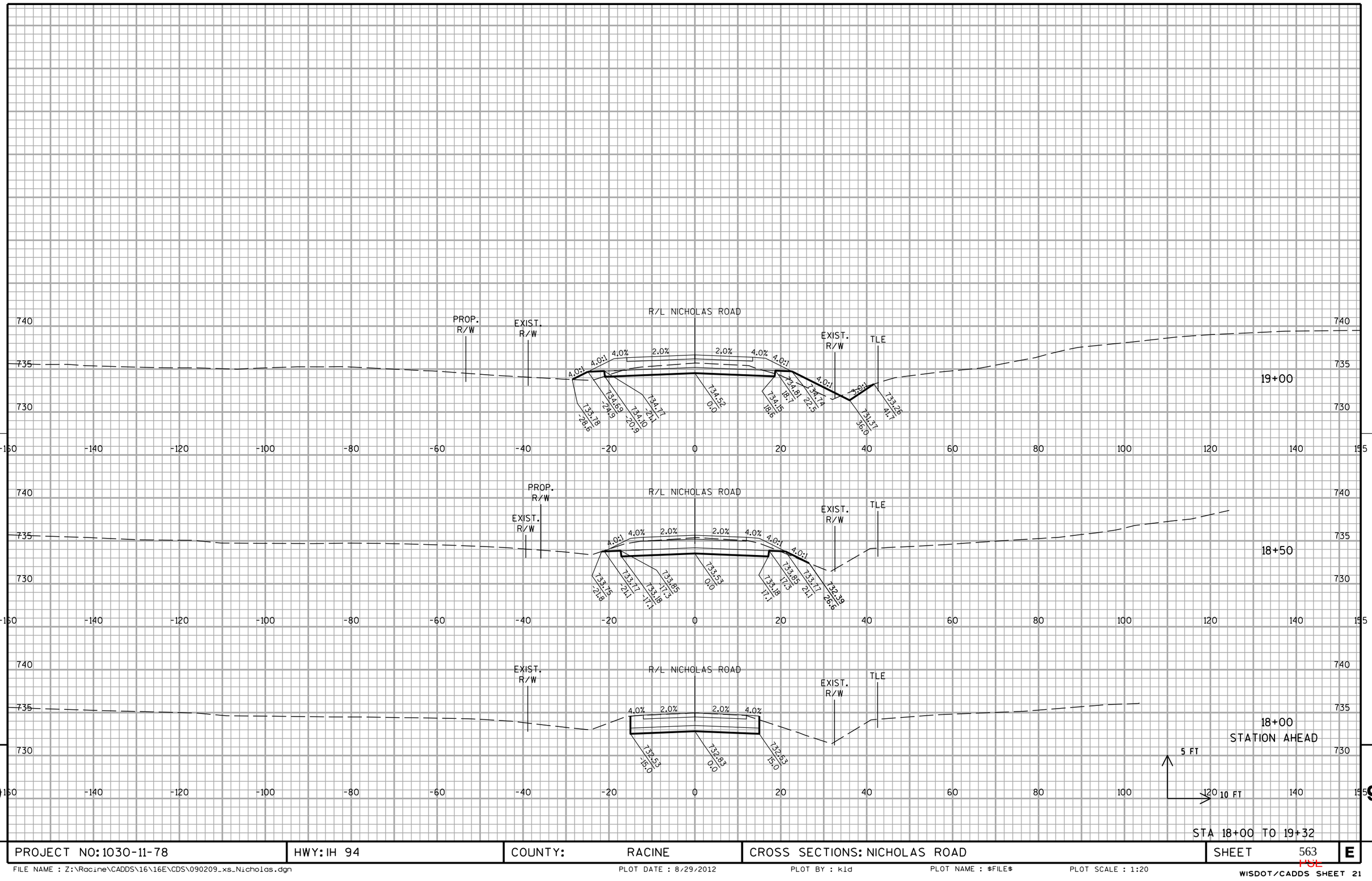
9

9

PROJECT NO: 1030-11-77	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: GOLF ROAD (WFR)	SHEET 562	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090208_xs_wfr_Golf.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:20

10301177-00008RDAPERM



9

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: NICHOLAS ROAD	SHEET 563	E

9

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090209_xs_Nicholas.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : $FILE$ | PLOT SCALE : 1:20

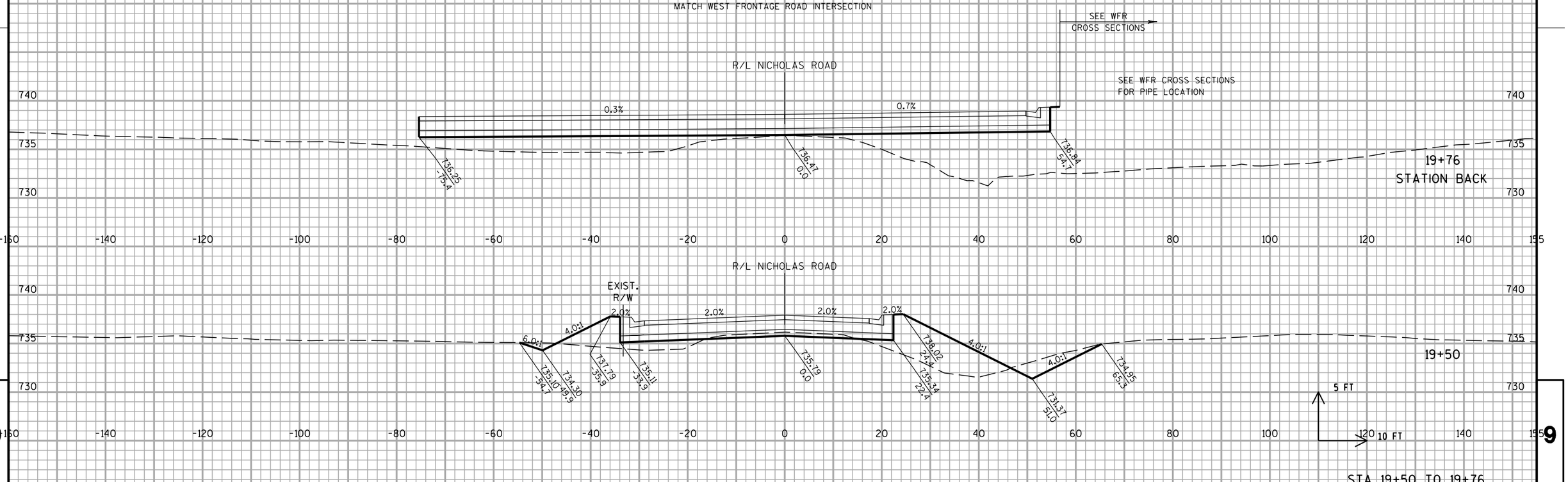
WISDOT/CADDS SHEET 21

MATCH WEST FRONTAGE ROAD INTERSECTION

SEE WFR CROSS SECTIONS

R/L NICHOLAS ROAD

SEE WFR CROSS SECTIONS FOR PIPE LOCATION

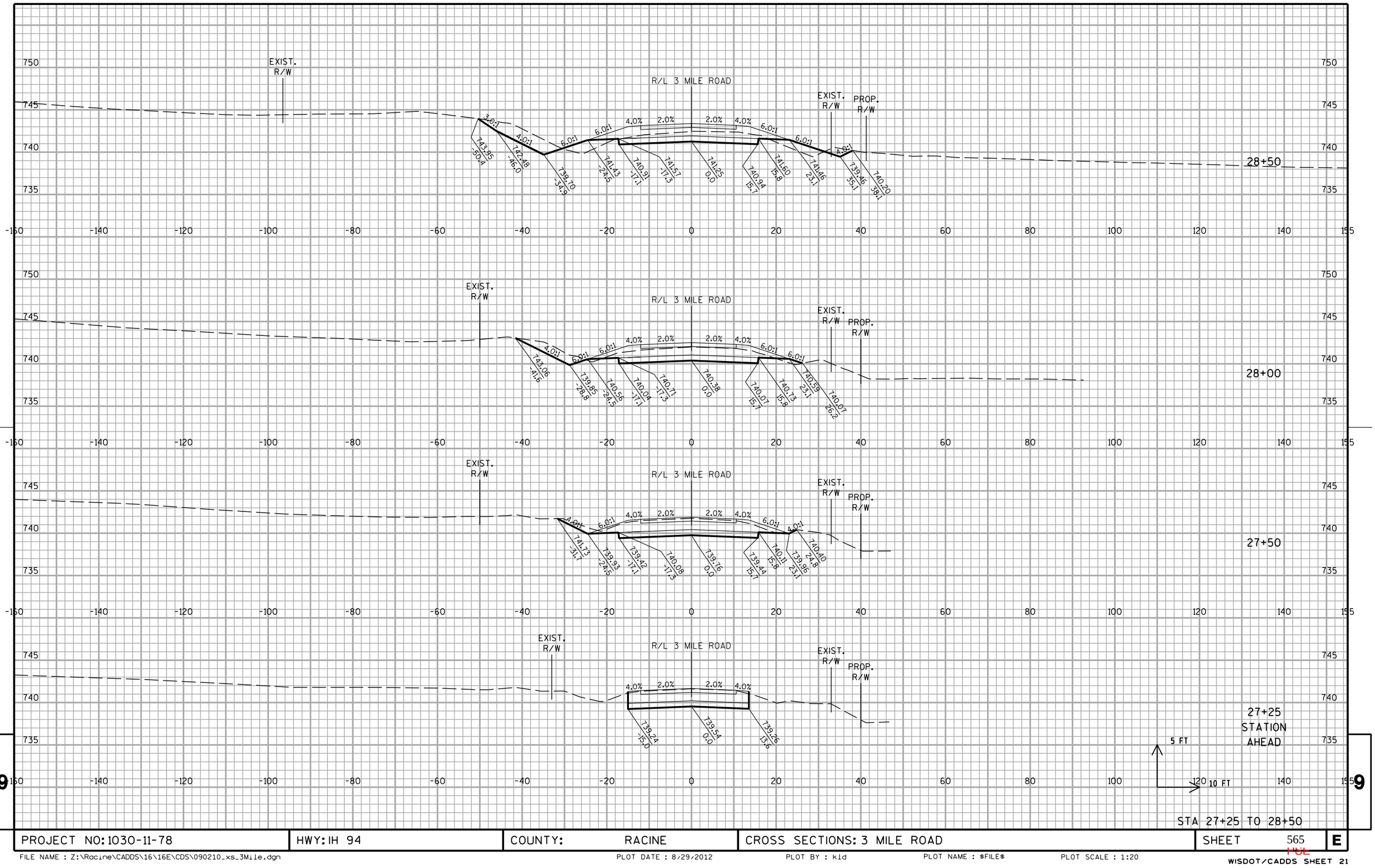


STA 19+50 TO 19+76

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: NICHOLAS ROAD	SHEET 564	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090209_xs_Nicholas.dgn | PLOT DATE : 8/29/2012 | PLOT BY : kld | PLOT NAME : $FILE$ | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

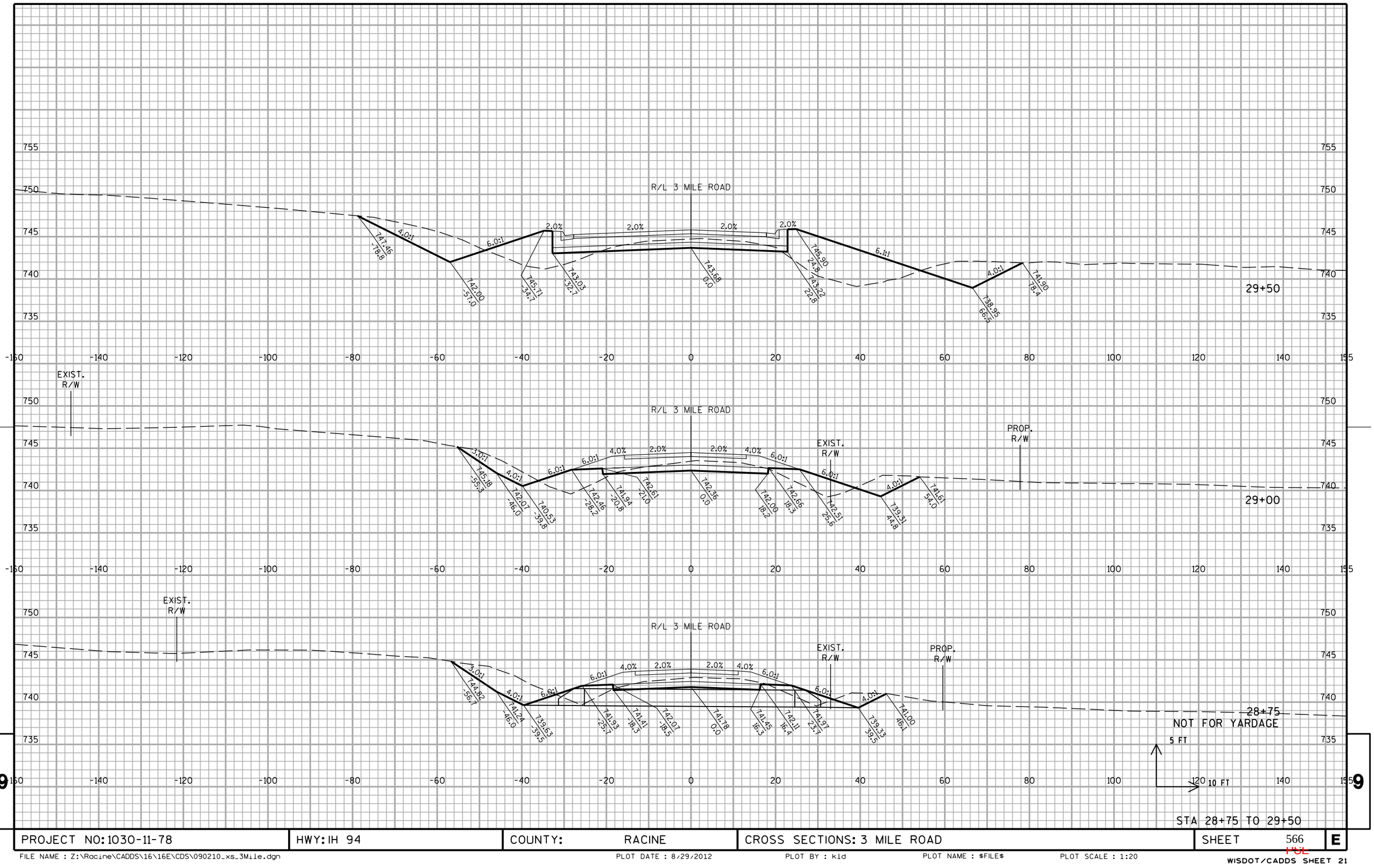


PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: 3 MILE ROAD	SHEET 565	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090210_xs_3Mile.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

10301177-00008RDAPERM

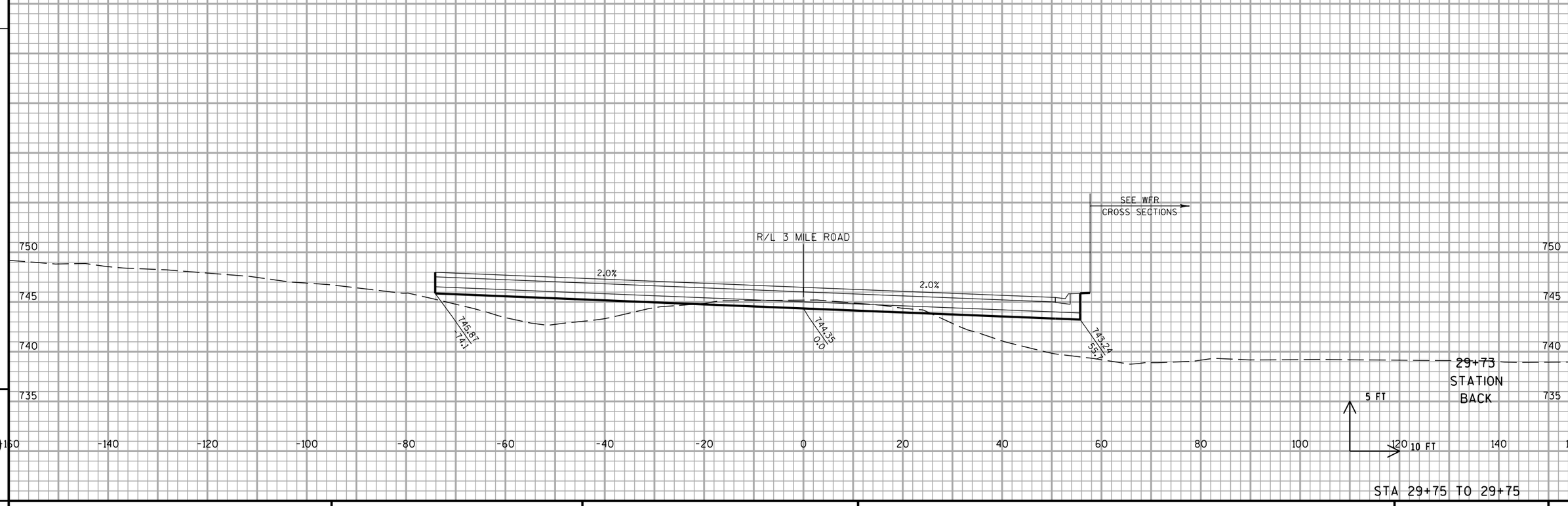


STA 28+75 TO 29+50

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: 3 MILE ROAD	SHEET 566	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090210_xs_3Mile.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



STA 29+75 TO 29+75

PROJECT NO: 1030-11-78	HWY: IH 94	COUNTY: RACINE	CROSS SECTIONS: 3 MILE ROAD	SHEET 567	E

FILE NAME : Z:\Racine\CADDS\16\16E\CDS\090210_xs_3Mile.dgn PLOT DATE : 8/29/2012 PLOT BY : kld PLOT NAME : $FILE$ PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

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