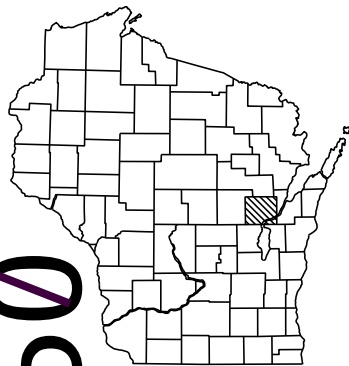


STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
6520-03-60		1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
PLAN OF PROPOSED IMPROVEMENT
SHIOCTON - NORTH COUNTY LINE
STH 54 - NCL
STH 187
OUTAGAMIE COUNTY

STATE PROJECT NUMBER
6520-03-60



A.A.D.T.	2015	=	430
A.A.D.T.	2025	=	480
D.H.V.		=	140
D.D.		=	62/38
T.		=	6.2%
DESIGN SPEED		=	60 MPH
ESALS		=	233,600

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	
MARSH AREA	
WOODED OR SHRUB AREA	

GRADE LINE
ORIGINAL GROUND
MARSH OR ROCK PROFILE
(To be noted as such)
SPECIAL DITCH

CULVERT (Profile View)

UTILITIES

ELECTRIC

FIBER OPTIC

GAS

SANITARY SEWER

STORM SEWER

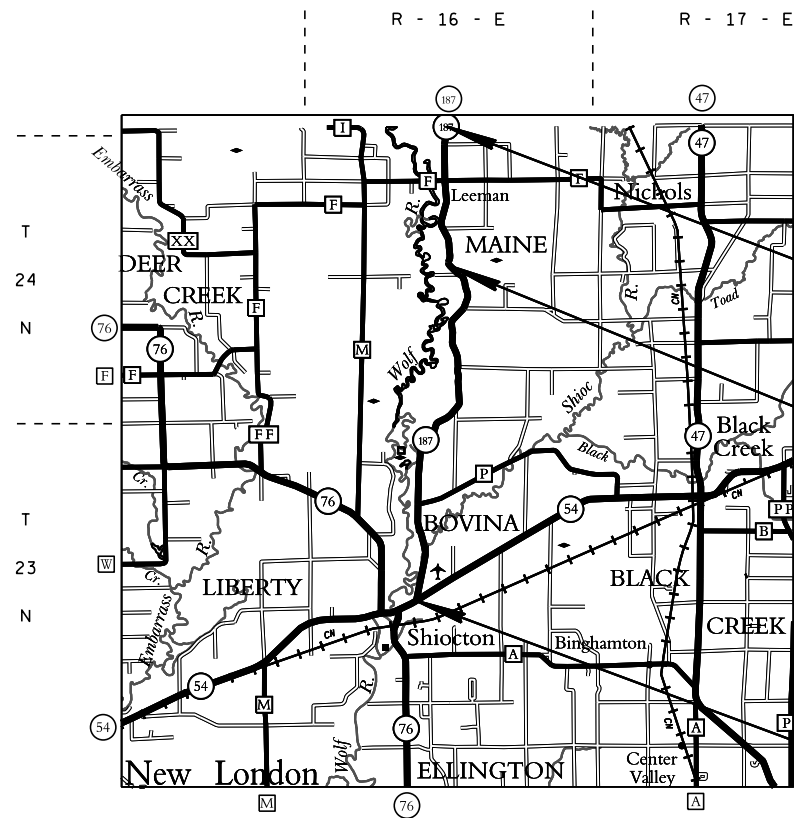
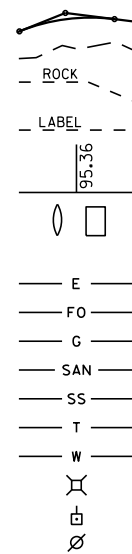
TELEPHONE

WATER

UTILITY PEDESTAL

POWER POLE

TELEPHONE POLE



END PROJECT 6520-03-60

STA 624+63.97

EXCEPTION TO NET & LENGTH
STA 434+95.00 TO 478+45.00

BEGIN PROJECT 6520-03-60

STA 61+43.46
Y= 629967.844
X= 784414.321

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN
COUNTY COORDINATE SYSTEM (WCCS) HORIZONTAL, NAD 83 (2007)
VERTICAL NAVD 88 (2007) OUTAGAMIE COUNTY.

LAYOUT
SCALE 0 2 MI.

TOTAL NET LENGTH OF CENTERLINE = 9.843 MI.

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY	WisDOT NE REGION
Surveyor	J A HILBERT
Designer	T VERHAGEN
Project Manager	
Regional Examiner	
Regional Supervisor	C KAROW
C.O. Examiner	

APPROVED FOR THE DEPARTMENT
DATE: 4-27-2015 Tim Verhagen
(Signature)

E

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN SHALL BE IN ACCORDANCE WITH THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS.

THE LOCATION OF EXISTING UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE, THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN. THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE AND ALL OTHER UTILITIES IN THE VICINITY OF THE PROJECT TO LOCATE THEIR FACILITIES AT LEAST 3 WORKING DAYS PRIOR TO BEGINNING WORK.

CONTRACTOR SHALL MAINTAIN ACCESS TO ALL DRIVEWAYS AT ALL TIMES EXCEPT WHEN PIPE LAYING OPERATIONS REQUIRE THE DRIVEWAY TO BE CLOSED. ACCESS TO DRIVEWAYS SHALL BE RE-ESTABLISHED IMMEDIATELY AFTER PIPE IN DRIVEWAY AREA IS INSTALLED. ACCESS SHALL BE PROVIDED DURING ALL NON-WORKING HOURS.

RESTORE EXISTING DRIVEWAYS AND FIELD ENTRANCES IN KIND AND AT THE LOCATION DETERMINED BY THE ENGINEER AND AS SHOWN IN THE PLAN.

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

WETLANDS ARE PRESENT IN SEVERAL AREAS ADJACENT TO THE PROJECT. DO NOT OPERATE EQUIPMENT OUTSIDE OF THE SLOPE INTERCEPTS IN WETLAND AREAS.

INLET AND DISCHARGE ELEVATIONS AND SKEW FOR DRAINAGE STRUCTURES SHOWN ON THE PLAN ARE APPROXIMATE AND SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD. ADJUST ELEVATIONS AND SKEW AS DIRECTED BY THE ENGINEER.

NO TREES OR SHRUBS OUTSIDE OF THE CLEARING AND GRUBBING LIMITS ARE TO BE REMOVED WITHOUT THE APPROVAL OF THE ENGINEER. CLEAR AND GRUB TO THE LIMITS OF THE SLOPE INTERCEPT ONLY.

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY AND TEMPORARY LIMITED EASEMENTS ARE TO BE COVERED WITH SALVAGED TOPSOIL, FERTILIZER, SEED AND MULCH, AS DIRECTED BY THE ENGINEER.

EXISTING DRAINAGE DITCHES AND CULVERT PIPES WILL REMAIN FUNCTIONAL DURING EXCAVATION OPERATIONS.

REMOVE EXISTING OLD CULVERTS AS SHOWN ON THE PLANS. ONLY THOSE CULVERTS IDENTIFIED FOR REMOVAL IN THE MISCELLANEOUS QUANTIIES WILL BE PAID FOR. ALL OTHER CULVERTS SHOWN ON THE PLANS FOR REMOVAL ARE INCIDENTAL TO THE CONTRACT AND WILL NOT BE PAID FOR.

MAINLINE CLEARING AND GRUBBING SHALL INCLUDE ADJACENT VISION CORNERS AS DIRECTED BY THE ENGINEER.

UTILITIES

RICK KLUSSENDORF
CENTURYLINK - COMMUNICATION LINE
P.O. BOX 260
WAUSAUKEE, WI 54177
(715) 856-0051
rick.klussendorf@centurylink.com

RUDI RUDIGER
CHARTER COMMUNICATIONS - COMMUNICATION LINE
5024 HEFFRON ST
STEVENS POINT, WI 54481
(715) 204-5339
rudi.rudiger@charter.com

JAMES JASKOLSKI
FRONTIER COMMUNICATIONS OF WI LLC - COMMUNICATION LINE
26 W 12TH ST
CLINTONVILLE, WI 53073
(715) 823-1227
james.jaskolski@ftr.com

DICK KOMINOWSKI
SHIOCTON MUNICIPAL UTILITY - WATER
W7844 WEST STREET
SHIOCTON, WI 54170
920-986-3951
wwtp@centurytel.net

LATROY BRUMFIELD
WE ENERGIES - ELECTRICITY
ROOM A299
333 WEST EVERETT ST
MILWAUKEE, WI 53203
(414) 221-5617
LaTroy.Brumfield@we-energies.com

DEBRA ROBINSON
WE ENERGIES - GAS
P.O. BOX 1699
APPLETON, WI 54913
920-380-3493
Debora.robinson@we-energies.com

DESIGNER

JILL HILBERT
WISDOT-NE REGION
944 VANDERPERREN WAY
GREEN BAY, WI 54304
920-492-0136
JILL.HILBERT@dot.wi.gov

OUTAGAMIE COUNTY

ALVIN GEURTS
HIGHWAY COMMISSIONER
1313 HOLLAND RD
APPLETON, WI 54911
920-832-5674

TOWNSHIP CONTACTS

TOWN OF MAINE
TOWN CHAIRPERSON
JIM GUYETTE
N7969 STATE ROAD 187
SHIOCTON, WI 54170
920-525-3683

TOWN OF BOVINA
TOWN CHAIRPERSON
RICHARD SINGLER
N4970 STATE ROAD 76
SHIOCTON, WI 54170

DNR AREA LIAISON

MATTHEW SCHAEVE
DEPARTMENT OF NATURAL RESOURCES
NORTHEAST REGION
2984 SHAWANO AVE
GREEN BAY, WI 54313
920-662-5472
MATTHEW.SCHAEVE@WISCONSIN.GOV

SURVEY CONTACT PERSON

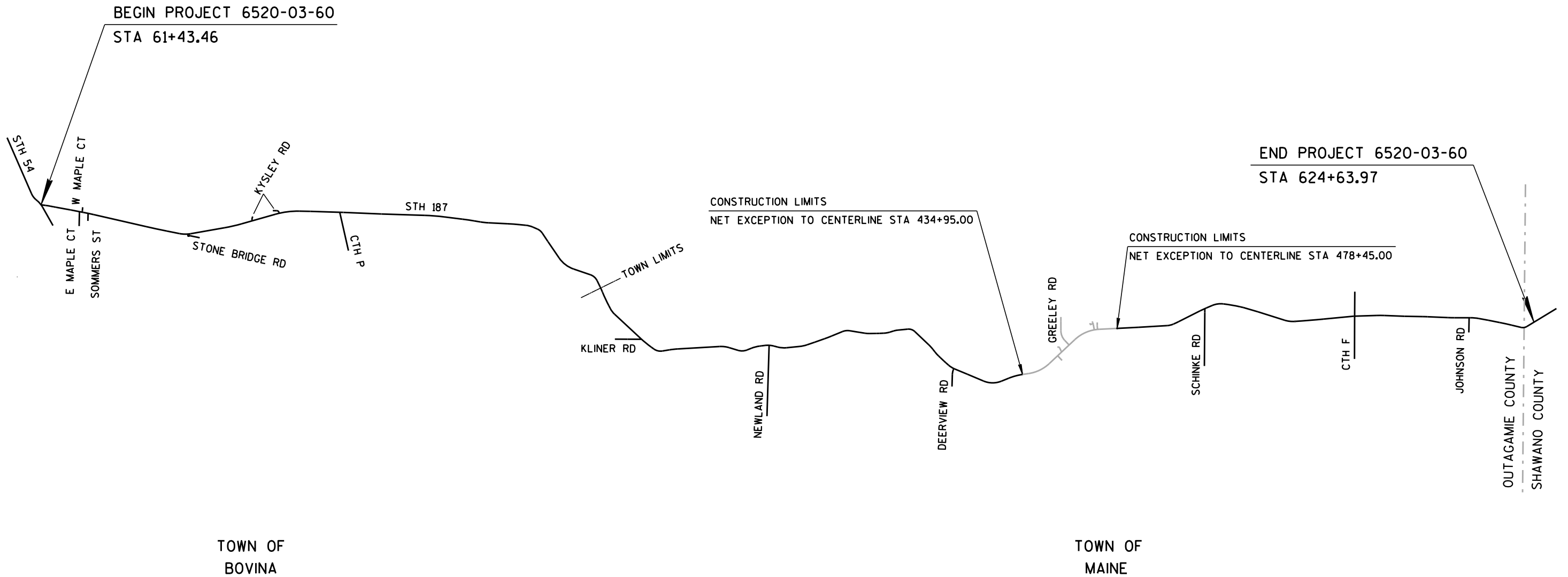
CONTACT: CORMAC MCINNIS
WISDOT-NE REGION
944 VANDERPERREN WAY
GREEN BAY, WI 54304
920-492-5638
cormac.mcinnis@dot.wi.gov

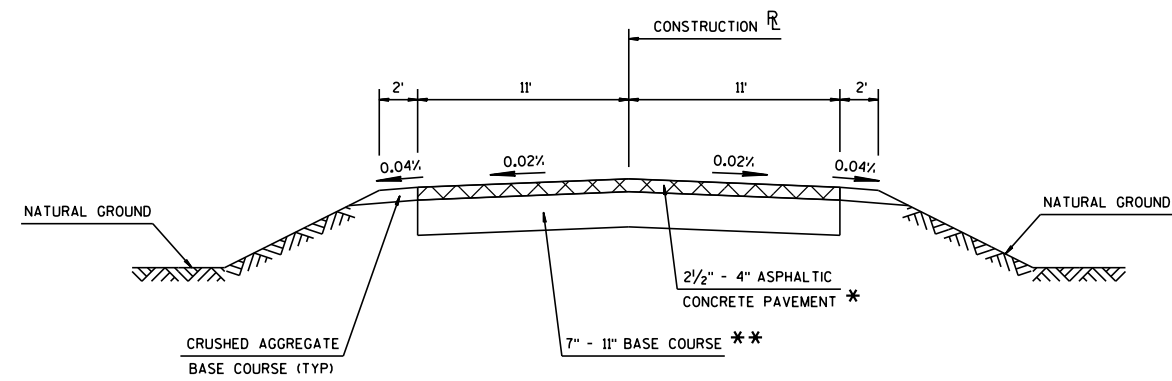


Dial 811 or (800)242-8511
www.DiggersHotline.com

EMERGENCY CONTACT NUMBERS FOR WE ENERGIES

ELECTRIC 24 HOUR EMERGENCY SERVICE:1-800-662-4797
GAS 24 HOUR EMERGENCY SERVICE:1-800-261-5325

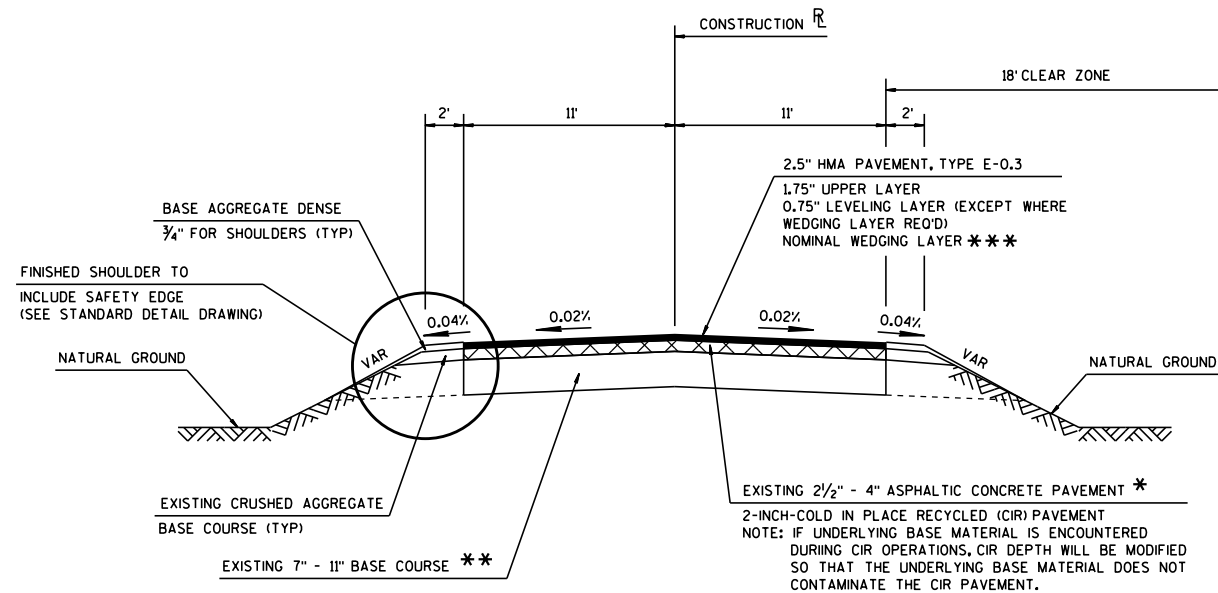




TYPICAL EXISTING CROSS SECTION FOR STH 187

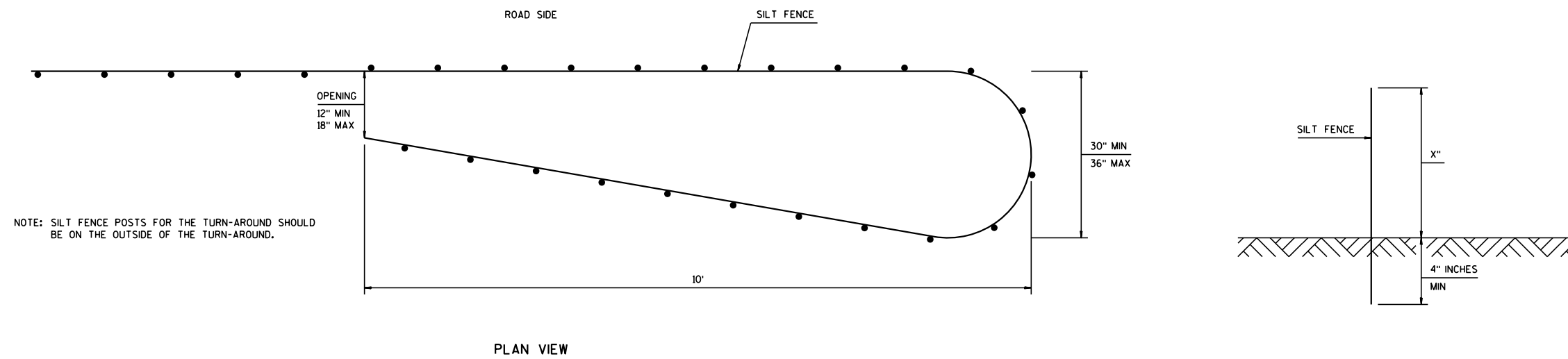
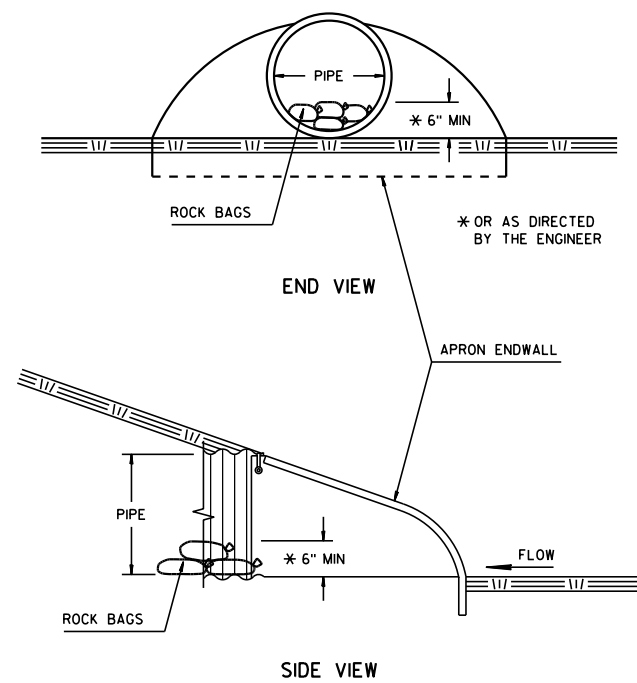
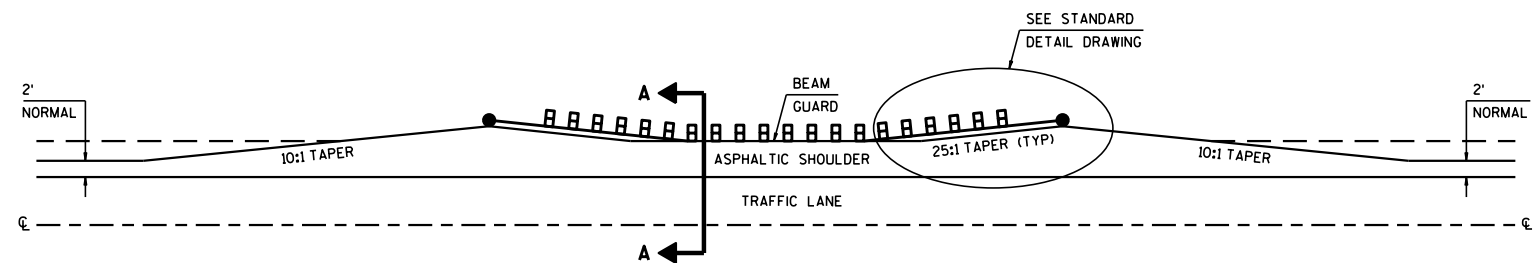
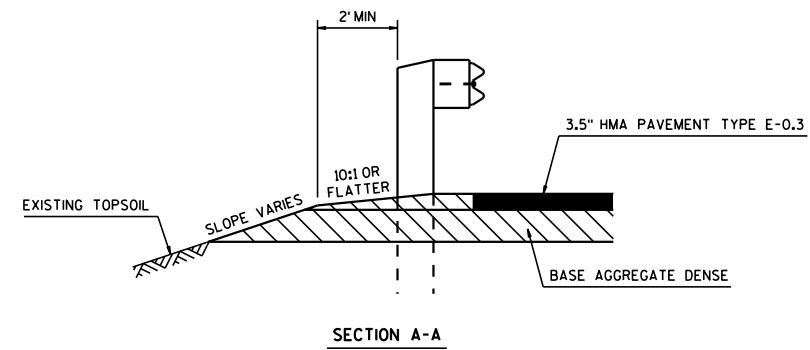
61+43.46 - 434+45.00
478+95.00 - 624+63.97

- * VARIES 2 1/2" TO 4" THROUGHOUT LIMITS
- ** VARIES 7 " TO 11" THROUGHOUT LIMITS
- *** SEE CONSTRUCTION DETAIL FOR LOCATIONS AND NOMINAL DEPTHS

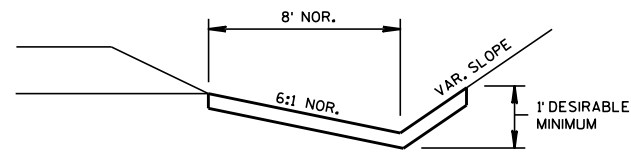


TYPICAL PROPOSED CROSS SECTION FOR STH 187

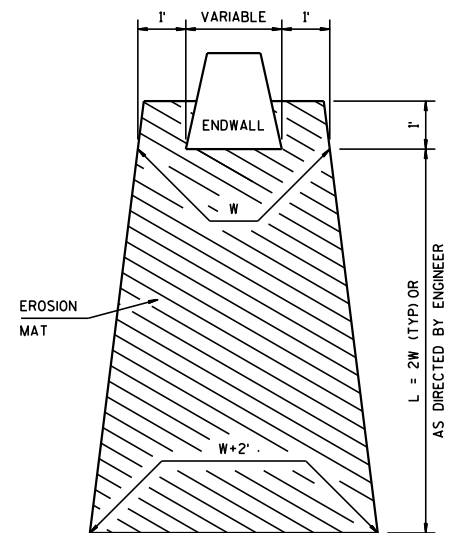
61+43.46 - 434+45.00
478+95.00 - 624+63.97

SILT FENCE TURN-AROUND DETAILCULVERT PIPE CHECKSDETAIL FOR ASPHALTIC SHOULDER AT GUARDRAIL

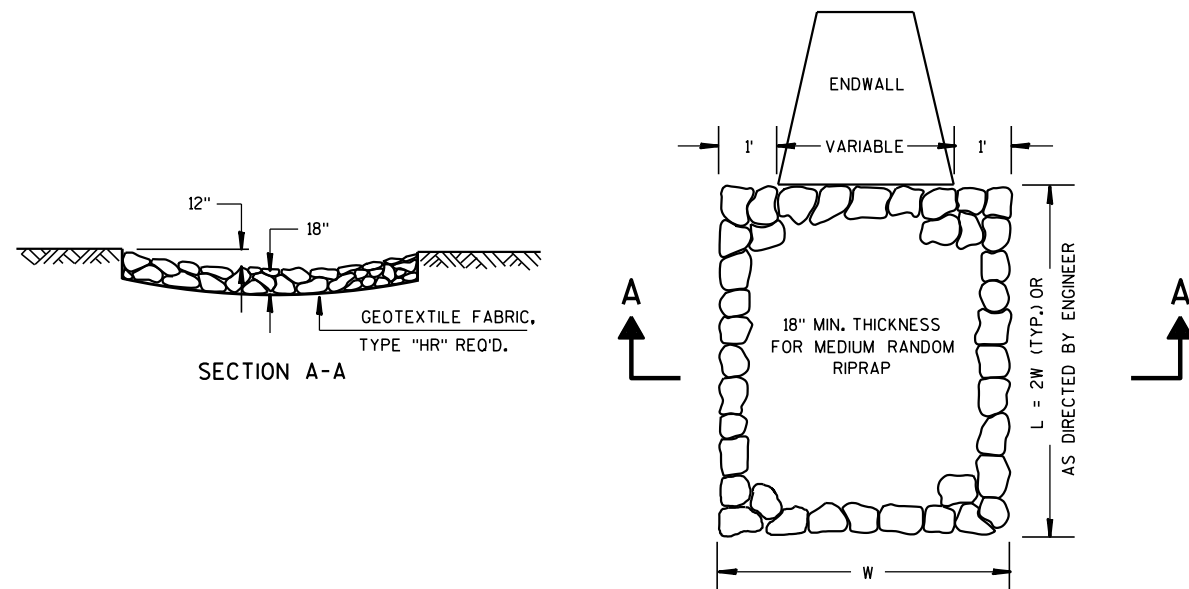
STA 113+32 - STA 118+75 LT
STA 115+12 - STA 122+42 RT
STA 124+50 - STA 128+37 RT
STA 125+00 - STA 128+86 LT
STA 538+85 - STA 542+15 RT
STA 539+38 - STA 542+25 LT



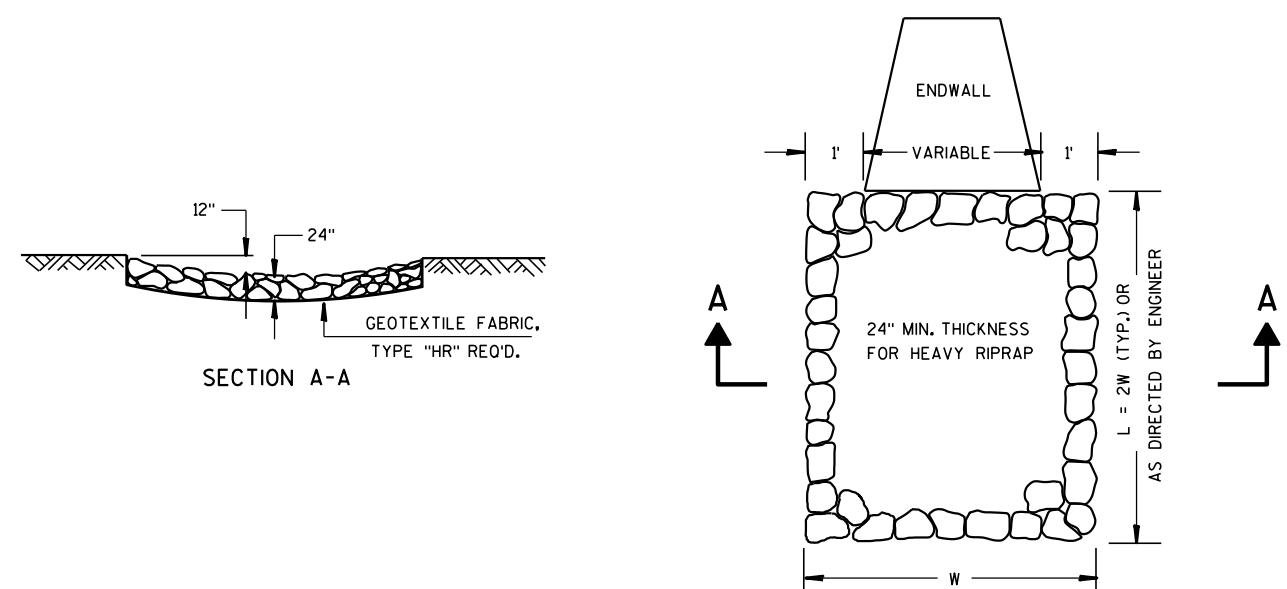
EROSION MAT DETAIL FOR DITCHES



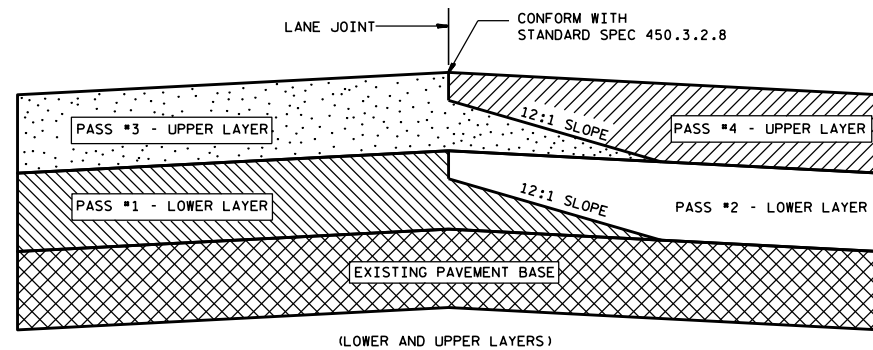
EROSION MAT TREATMENT AT CULVERTS



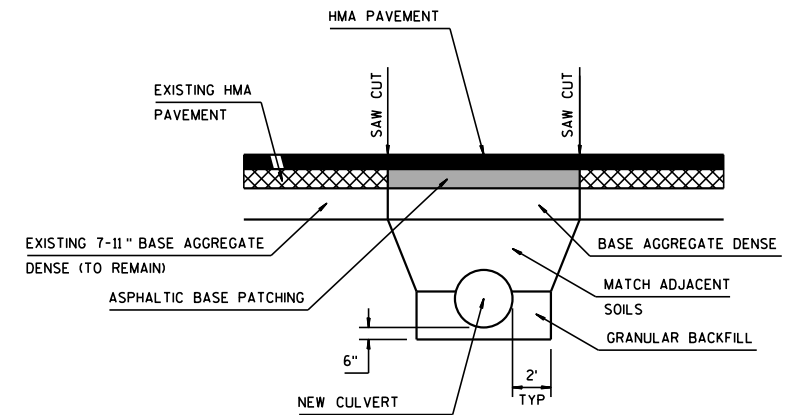
MEDIUM RIPRAP TREATMENT AT CULVERTS



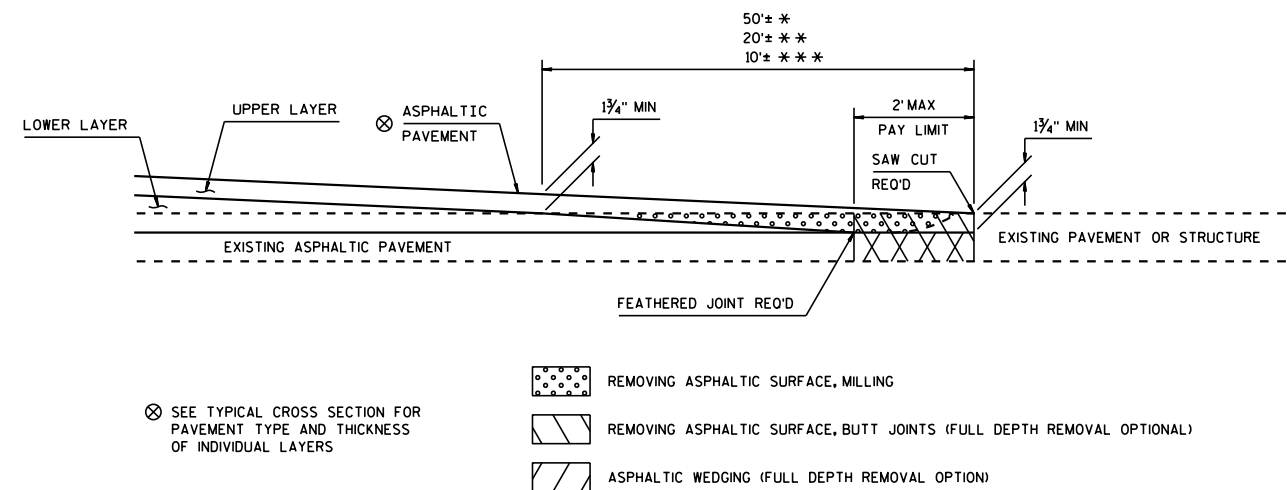
HEAVY RIPRAP TREATMENT AT CULVERTS



TYPICAL PAVEMENT CROSS SECTION
OF NOTCHED WEDGE LONGITUDINAL JOINTS

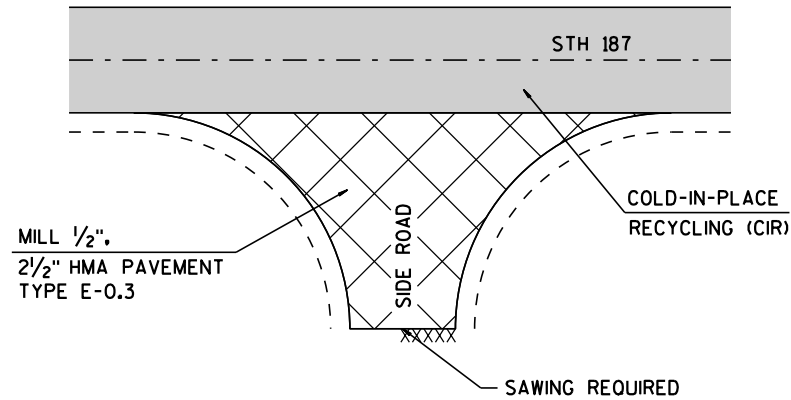


DETAIL FOR CULVERT REPLACEMENT

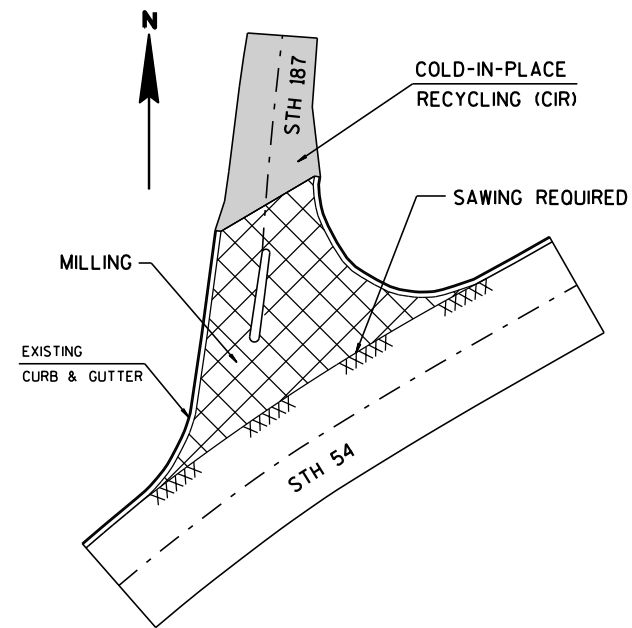


BUTT JOINT DETAIL FOR MILLED ASPHALTIC PAVEMENTS

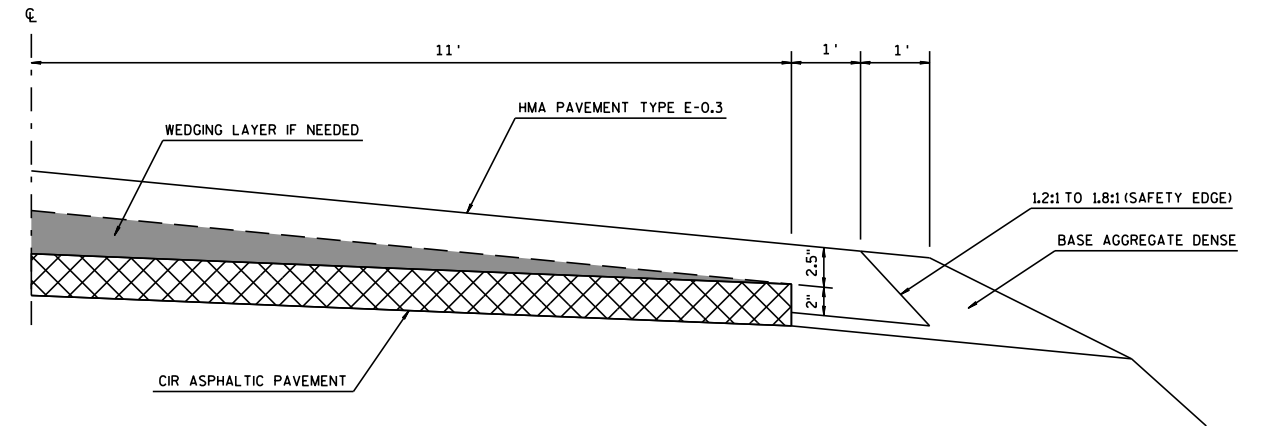
* MAINLINE
** SIDEROADS
*** PRIVATE ENTRANCES

**RURAL SIDE ROAD MILLING & PAVING LIMITS**

E MAPLE CT
W MAPLE CT
SOMMERS ST
STONE BRIDGE RD
KYSLEY RD
CTH P
KLINER RD
NEWLAND RD
DEERVIEW RD
SCHINKE RD
JOHNSON RD

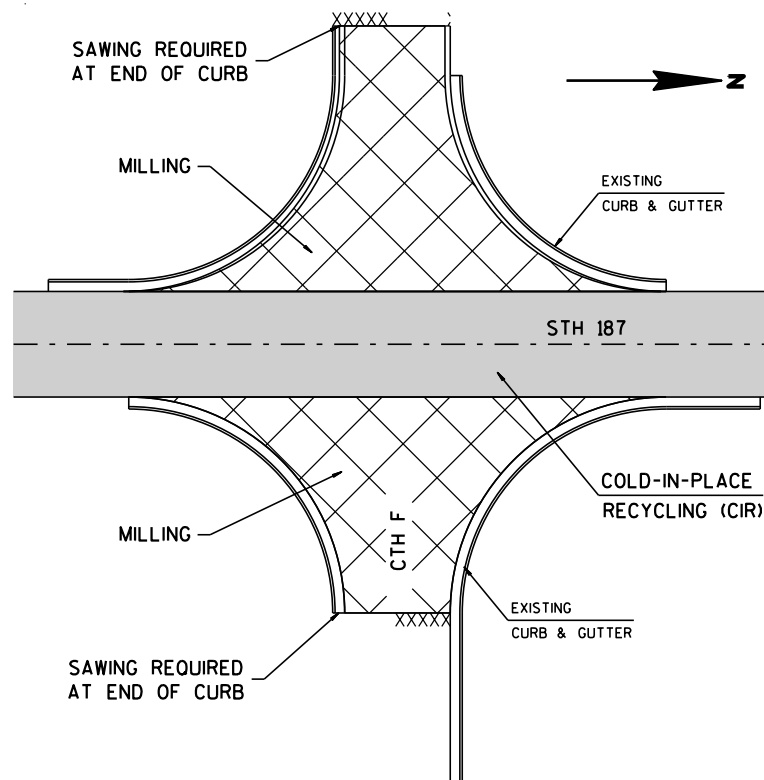
**MILLING & PAVING LIMITS WITH CURB & GUTTER**

STH 187 & STH 54

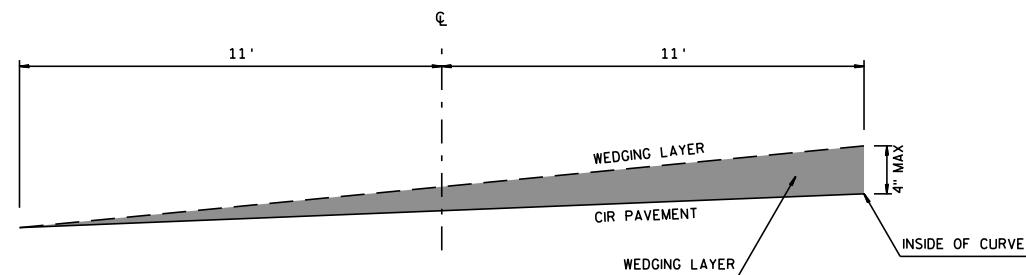
**SHOULDER PAVING AT INSIDE CURVES****CURVE PI**

239+12.82
254+11.91
265+15.82
270+03.40
300+07.09
323+41.85
330+02.82
334+70.83
339+67.65
344+20.48
351+69.57
367+64.52
382+02.16
385+23.71
390+92.58
399+96.32
403+20.15
425+80.83
496+55.55
514+86.76
540+90.82
605+91.76
623+63.21

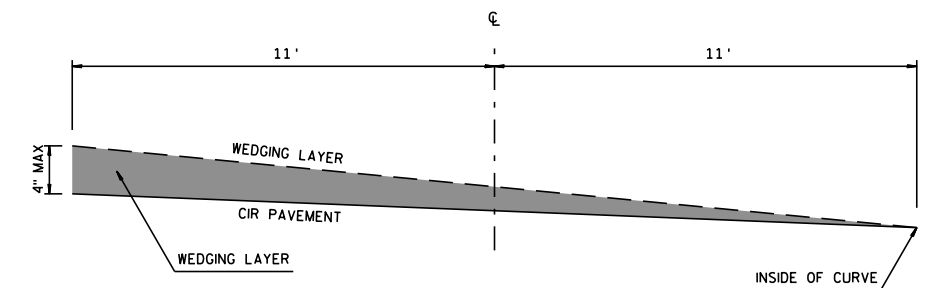
PAVE INSIDE OF CURVES MARKED WITH AN ADVISORY
SPEED OF 50 MPH OR LESS.
THE LOCATIONS LISTED IN THE TABLE ARE NOT FINAL.
THE ENGINEER WILL VERIFY IN THE FIELD.
PAVE SHOULDERS AS DIRECTED FROM PC TO PT.

**MILLING & PAVING LIMITS WITH CURB & GUTTER**

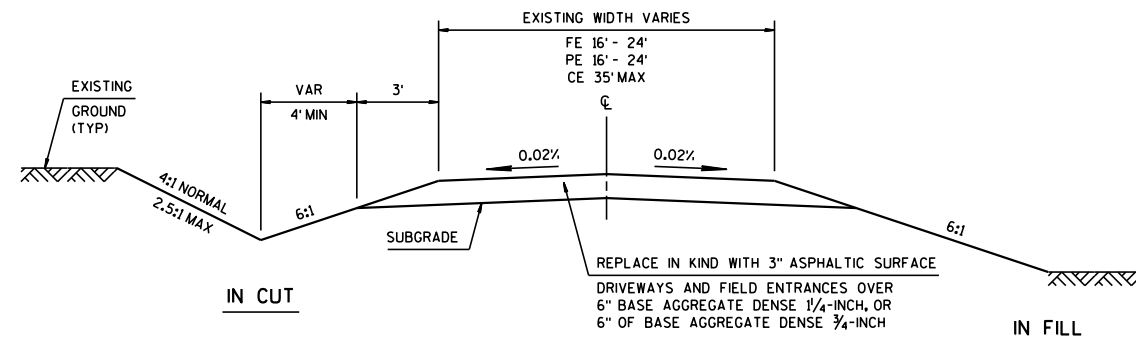
STH 187 & CTH FF

**WEDGING LAYER TO DECREASE SUPERELEVATION**

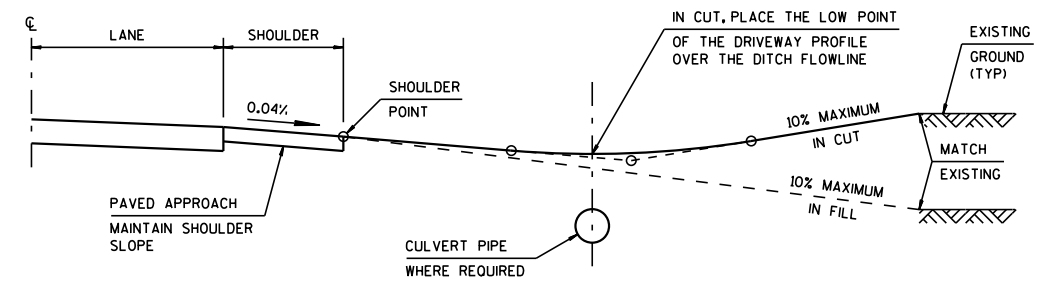
CURVE PI	EXISTING SUPER	PLAN SUPER
399+96.32	9.0%	7.5%
407+13.28	8.9%	7.4%
425+80.83	6.7%	5.8%
437+14.87	6.3%	5.3%

**WEDGING LAYER TO INCREASE SUPERELEVATION**

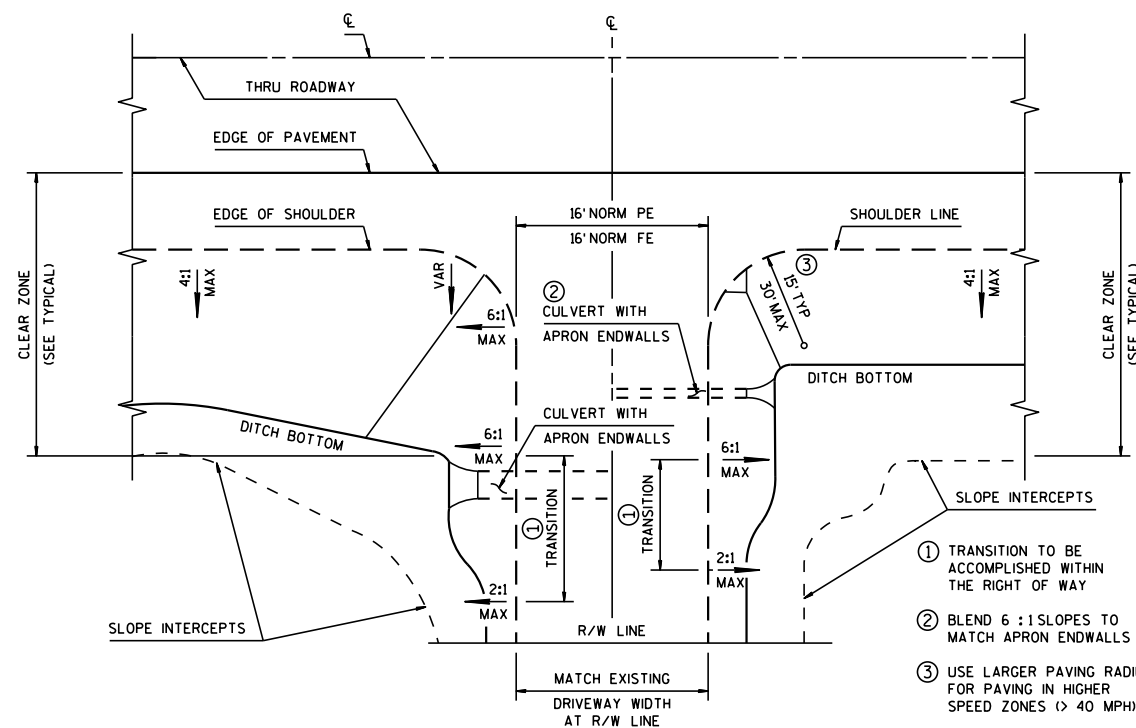
CURVE PI	EXISTING SUPER	PLAN SUPER	CURVE PI	EXISTING SUPER	PLAN SUPER
63+88.83	0.0%	1.0%	344+20.48	2.7%	3.8%
71+88.52	0.0%	1.0%	351+69.57	1.7%	3.3%
130+12.91	1.3%	2.6%	360+88.31	1.2%	2.7%
149+79.34	2.3%	3.8%	367+64.52	2.3%	3.6%
201+36.87	1.7%	2.2%	375+11.05	1.9%	3.4%
213+32.86	1.3%	2.0%	382+02.16	3.0%	4.0%
219+08.50	1.7%	3.3%	385+23.71	1.7%	3.3%
234+95.63	1.3%	3.1%	390+92.58	3.1%	4.0%
239+12.82	3.8%	5.3%	403+20.15	1.0%	3.0%
254+11.91	3.0%	4.5%	410+17.74	3.0%	4.0%
265+15.82	2.4%	3.9%	496+55.55	4.4%	4.7%
270+03.40	0.8%	2.7%	498+82.31	1.7%	3.3%
273+78.54	1.3%	2.7%	514+86.76	4.2%	4.6%
278+80.85	2.6%	4.1%	519+84.58	2.6%	2.7%
294+88.81	1.3%	3.1%	540+90.82	2.3%	3.6%
300+07.09	3.0%	4.0%	572+82.06	2.5%	3.7%
305+51.04	1.7%	3.3%	588+52.34	1.4%	2.1%
323+41.85	3.3%	4.1%	597+65.45	2.1%	2.7%
330+02.82	3.0%	4.0%	605+91.76	3.8%	4.4%
334+70.83	2.3%	3.6%	623+63.21	2.6%	3.8%
339+67.65	1.8%	3.4%			



TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE



TYPICAL DRIVEWAY PROFILES

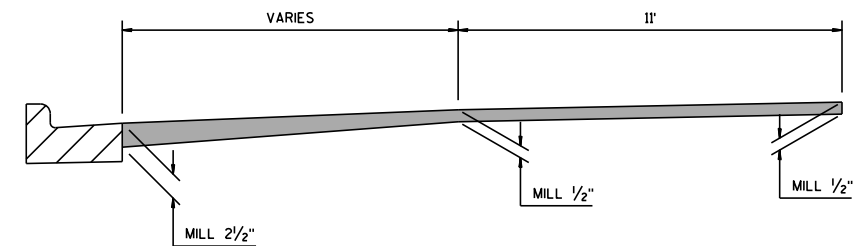


FOR CULVERTS OVER 24" DIAMETER

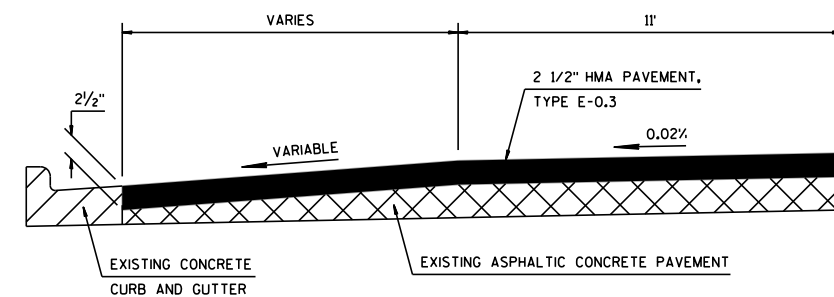
FOR CULVERTS 24" DIAMETER & LESS

PLAN VIEW

RURAL DRIVEWAY GRADING AND/OR PAVING DETAIL

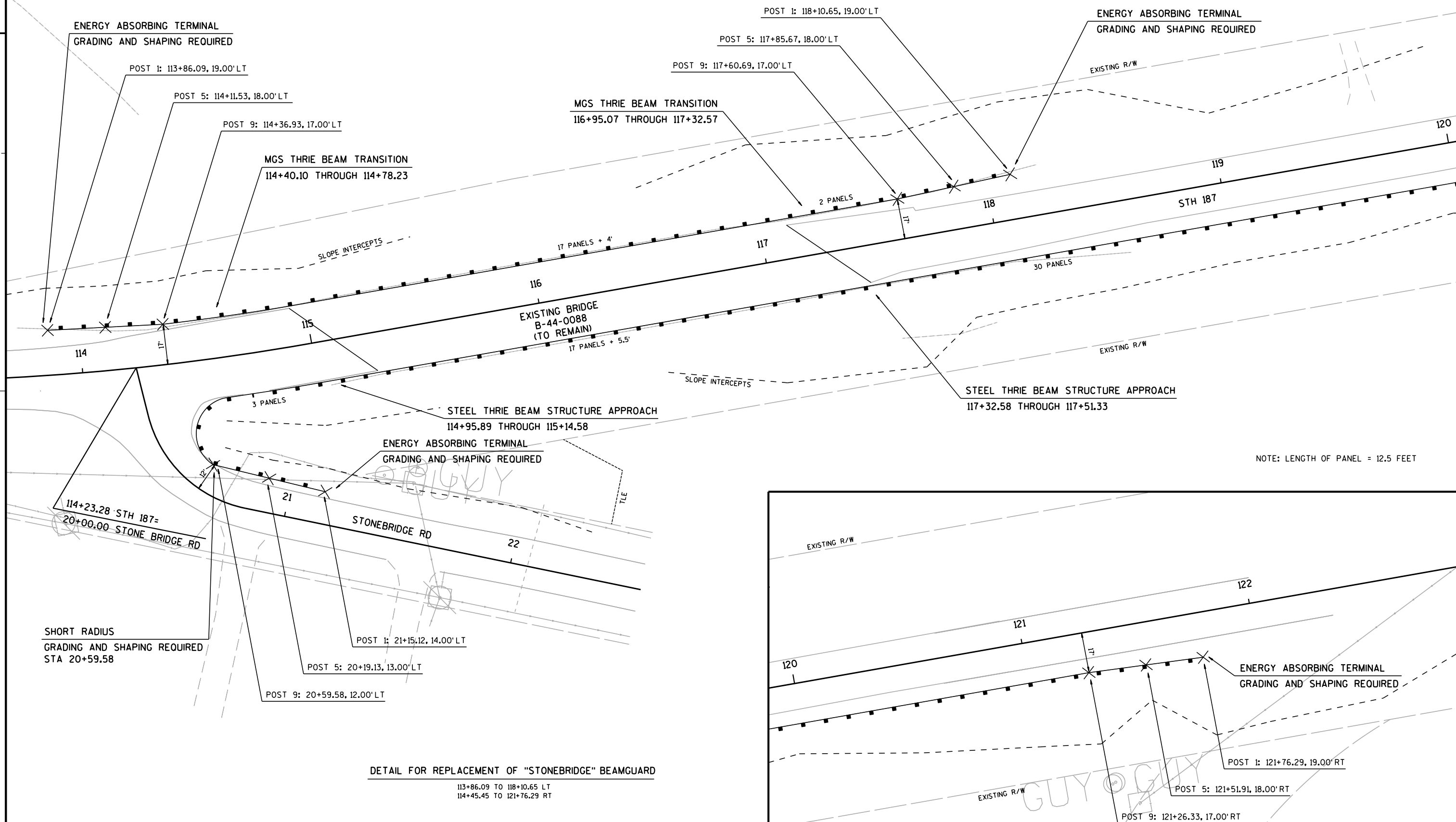


MILLING DETAIL



PAVING DETAIL

TYPICAL CROSS SECTION AT INTERSECTIONS WITH CURB AND GUTTER



PROJECT NO: 6520-03-60

HWY: STH 187

COUNTY: OUTAGAMIE

CONSTRUCTION DETAIL

SHEET

E

FILE NAME : F:\d3_652003\021004_cd.dgn

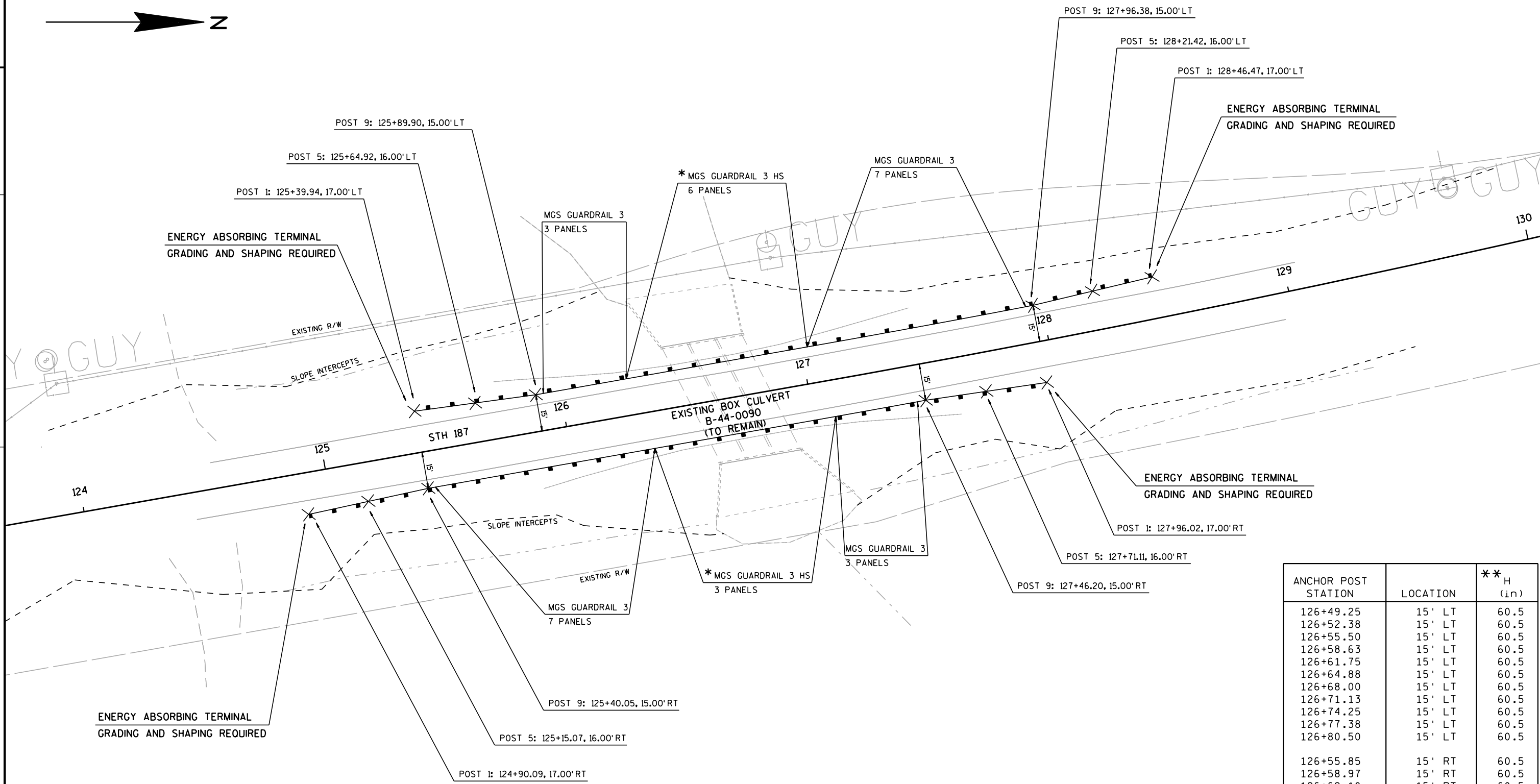
PLOT DATE : 19-FEB-2015 15:59

PLOT BY : dotmzc

PLOT NAME : 021004_cda

PLOT SCALE : 40:1

WISDOT/CALCS SHEET 42



DETAIL FOR REPLACEMENT OF "SHIOC RIVER" BEAMGUARD

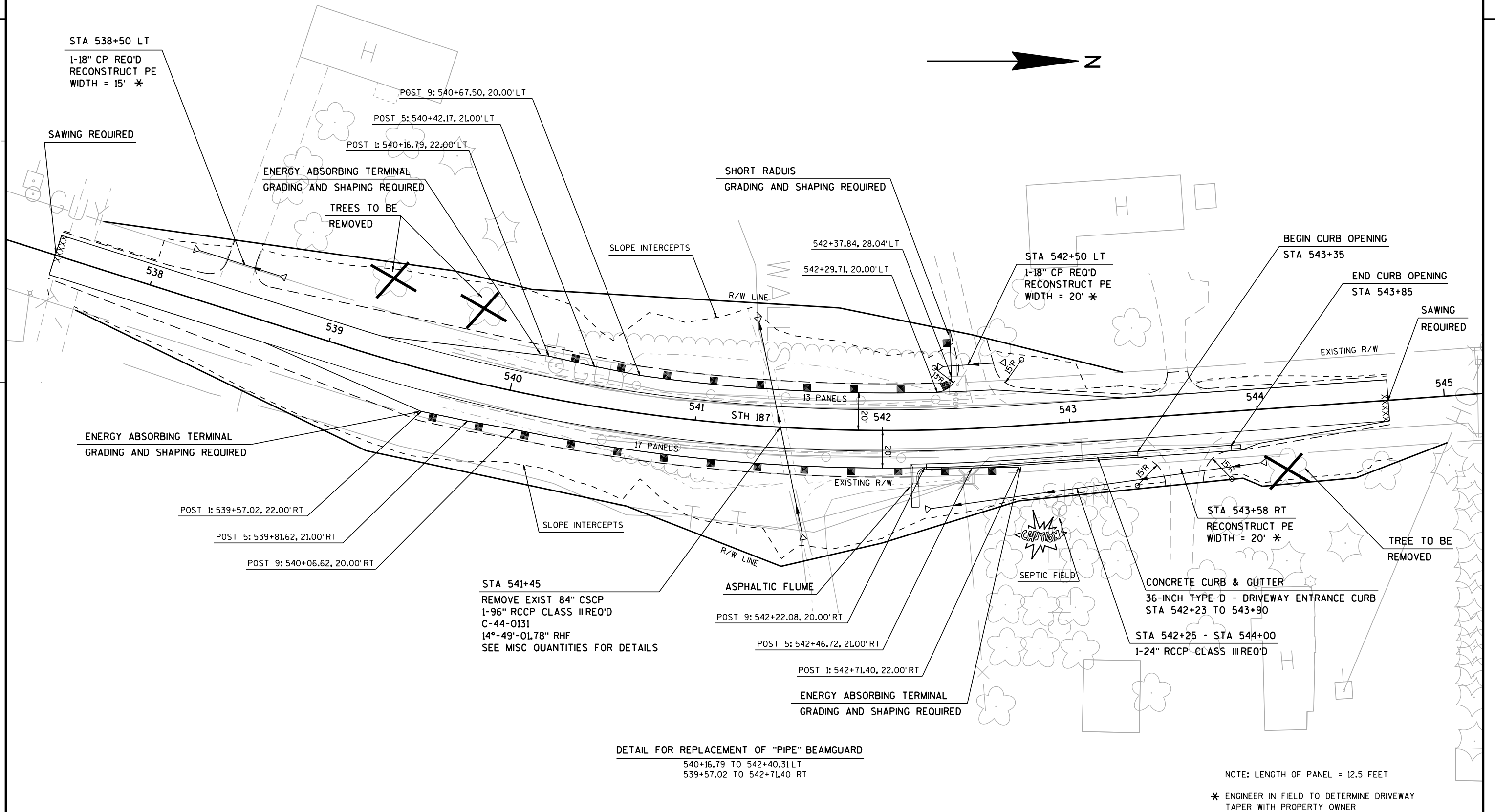
125+39.94 TO 128+46.47 LT
124+90.09 TO 127+96.02 RT

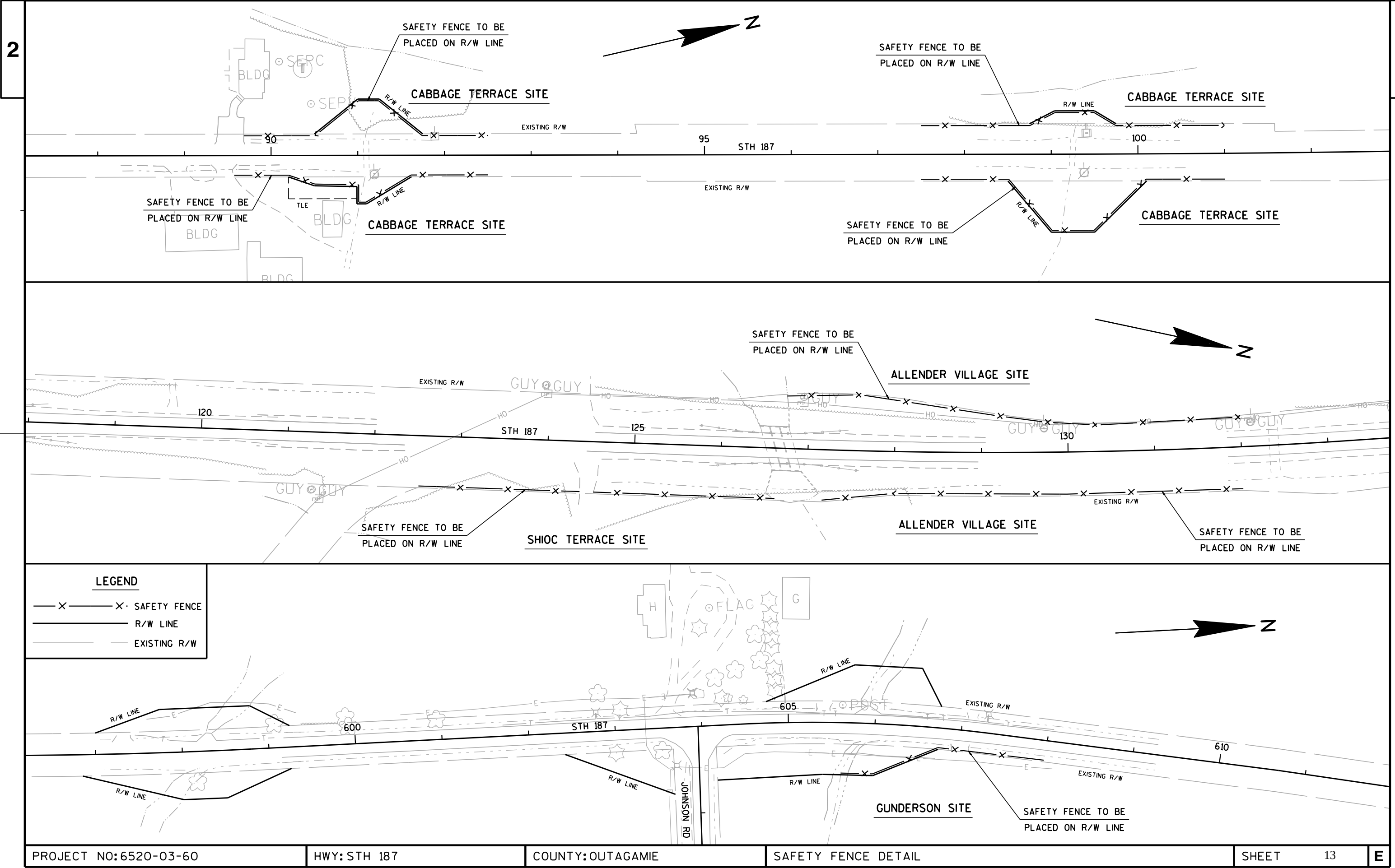
NOTE: LENGTH OF PANEL = 12.5 FEET

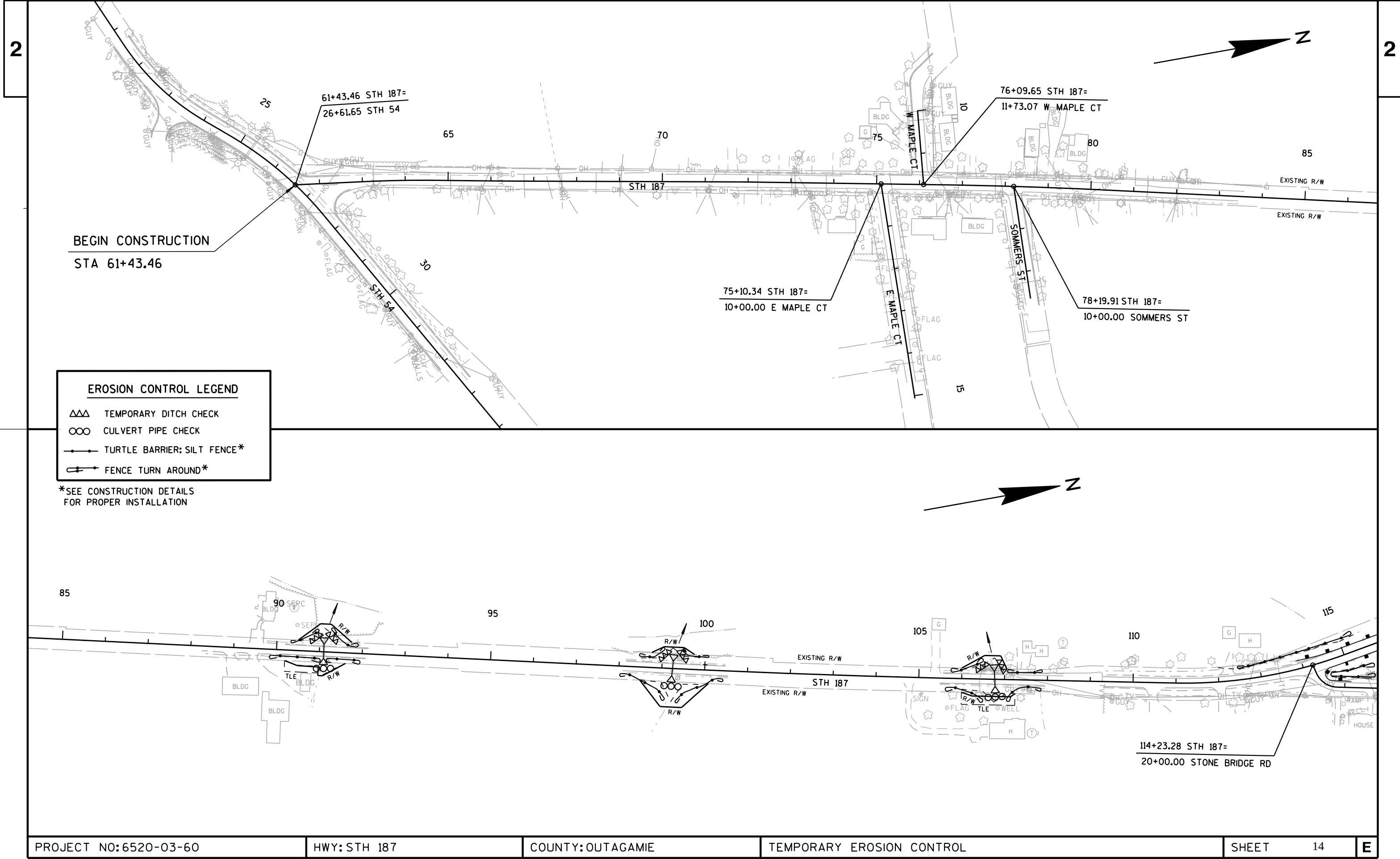
* 7 POSTS AT HALF POST SPACING REQ'D BEFORE AND AFTER ANCHOR POST ASSEMBLIES.

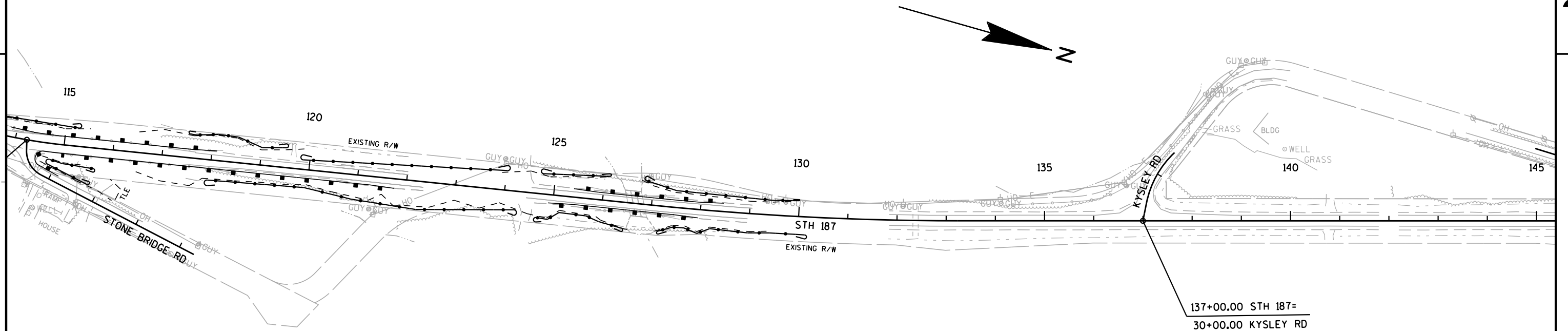
** "H" VALUE MAY VARY BASED ON FINAL PAVEMENT ELEVATIONS. VALUES TO BE VERIFIED IN THE FIELD PRIOR TO ORDERING MATERIALS.

ANCHOR POST STATION	LOCATION	** H (in)
126+49.25	15' LT	60.5
126+52.38	15' LT	60.5
126+55.50	15' LT	60.5
126+58.63	15' LT	60.5
126+61.75	15' LT	60.5
126+64.88	15' LT	60.5
126+68.00	15' LT	60.5
126+71.13	15' LT	60.5
126+74.25	15' LT	60.5
126+77.38	15' LT	60.5
126+80.50	15' LT	60.5
126+55.85	15' RT	60.5
126+58.97	15' RT	60.5
126+62.10	15' RT	60.5
126+65.22	15' RT	60.5
126+68.35	15' RT	60.5
126+71.47	15' RT	60.5
126+74.60	15' RT	60.5
126+77.72	15' RT	60.5
126+80.85	15' RT	60.5
126+83.97	15' RT	60.5
126+87.10	15' RT	60.5



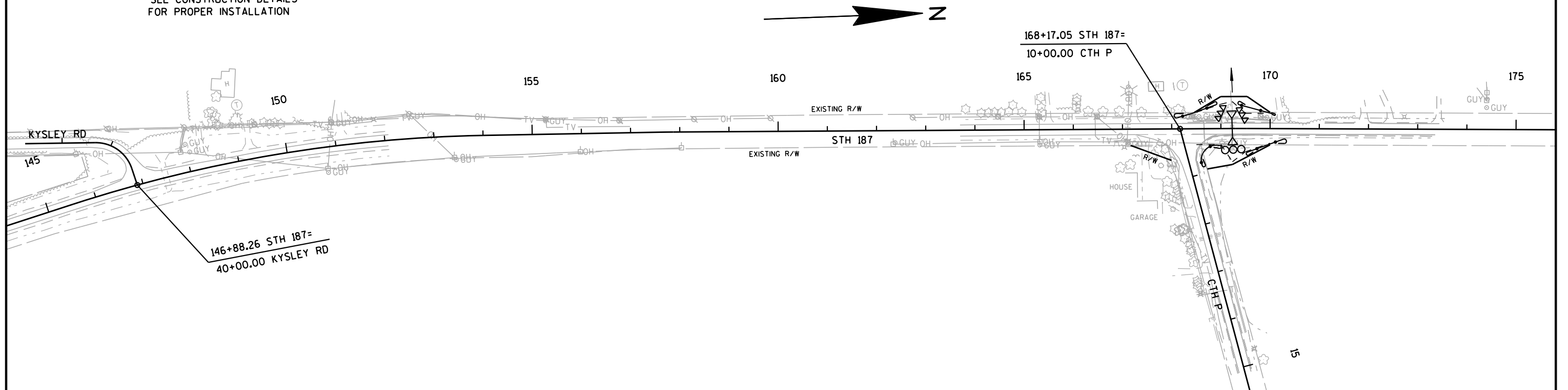


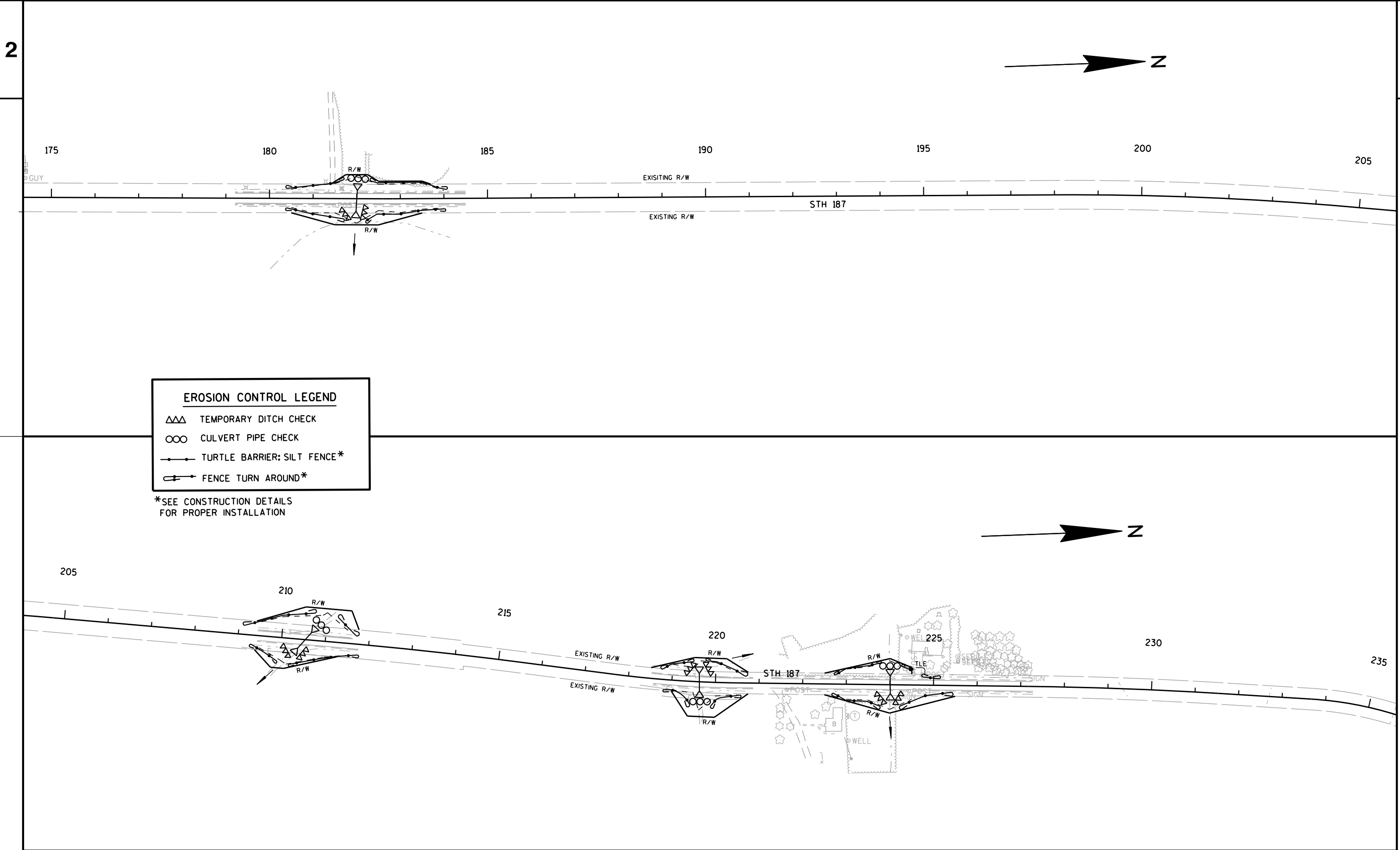


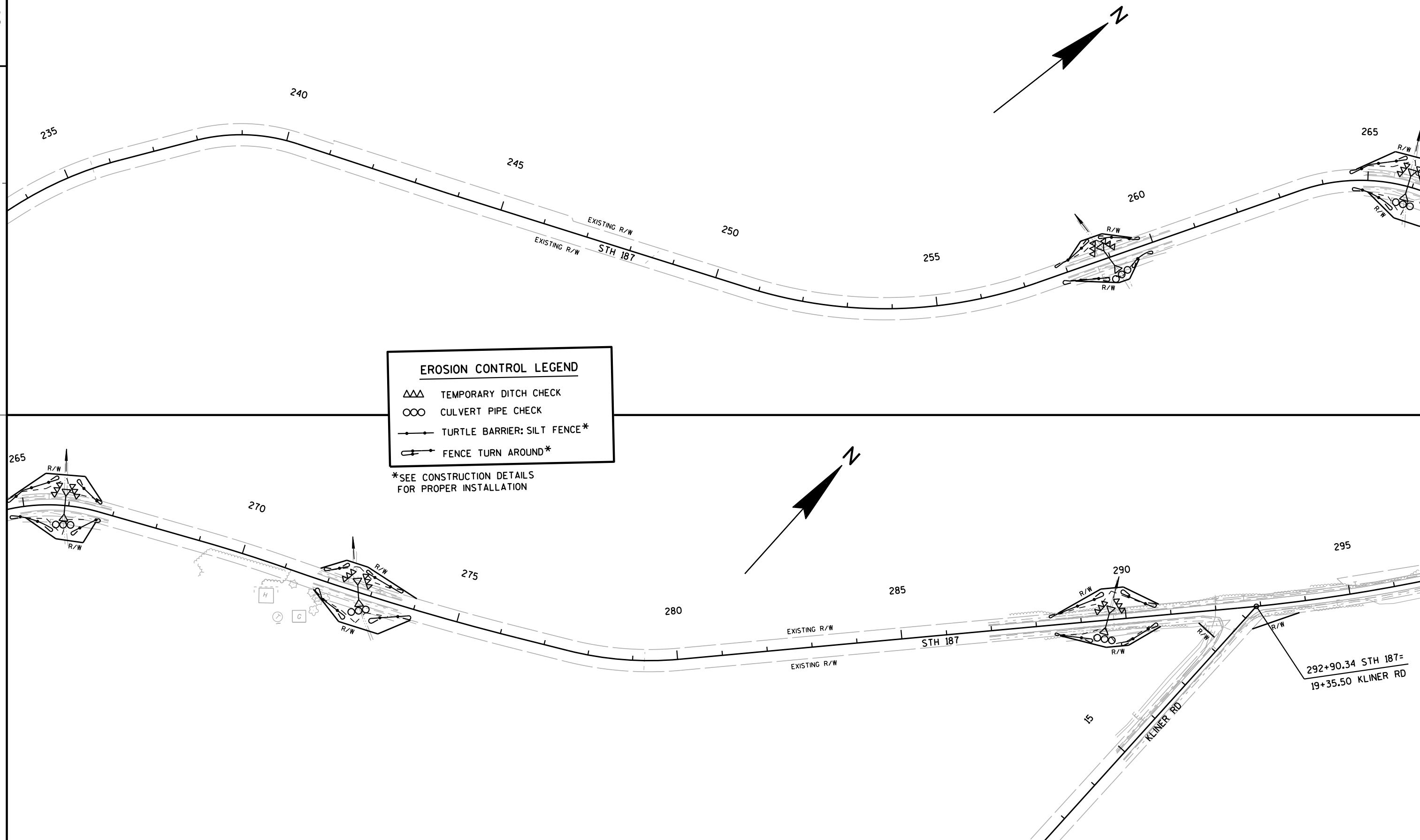
**EROSION CONTROL LEGEND**

- △△△ TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- TURTLE BARRIER: SILT FENCE*
- FENCE TURN AROUND*

*SEE CONSTRUCTION DETAILS
FOR PROPER INSTALLATION

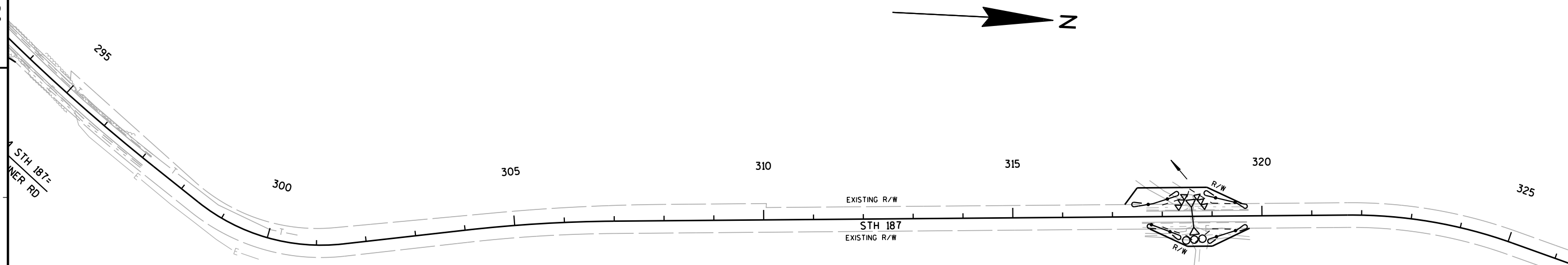






2

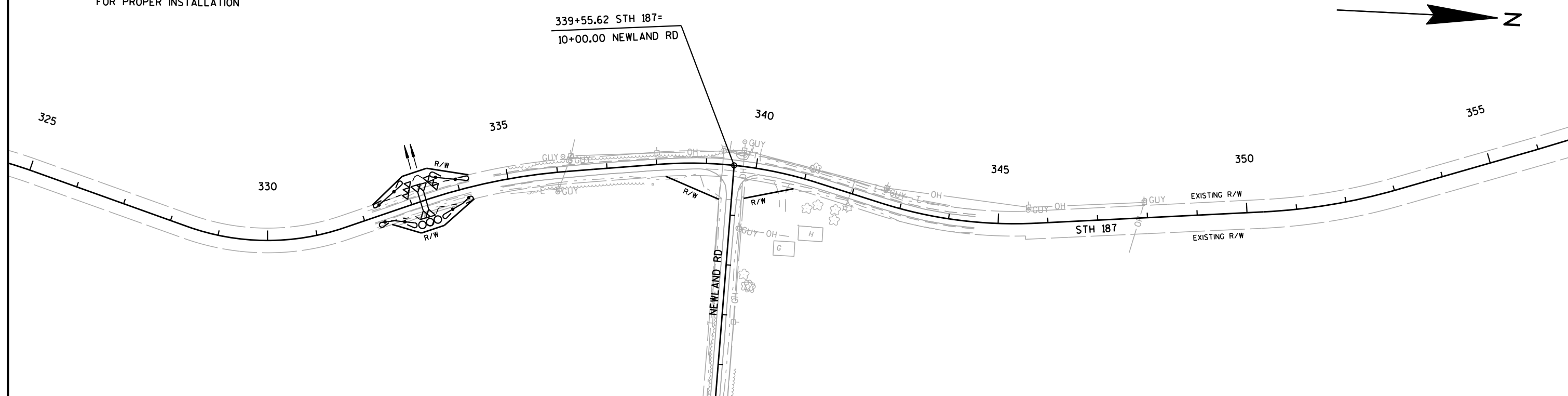
2



EROSION CONTROL LEGEND

-  TEMPORARY DITCH CHECK
 CULVERT PIPE CHECK
 TURTLE BARRIER: SILT FENCE*
 FENCE TURN AROUND*

*SEE CONSTRUCTION DETAILS
FOR PROPER INSTALLATION



PROJECT NO:6520-03-60

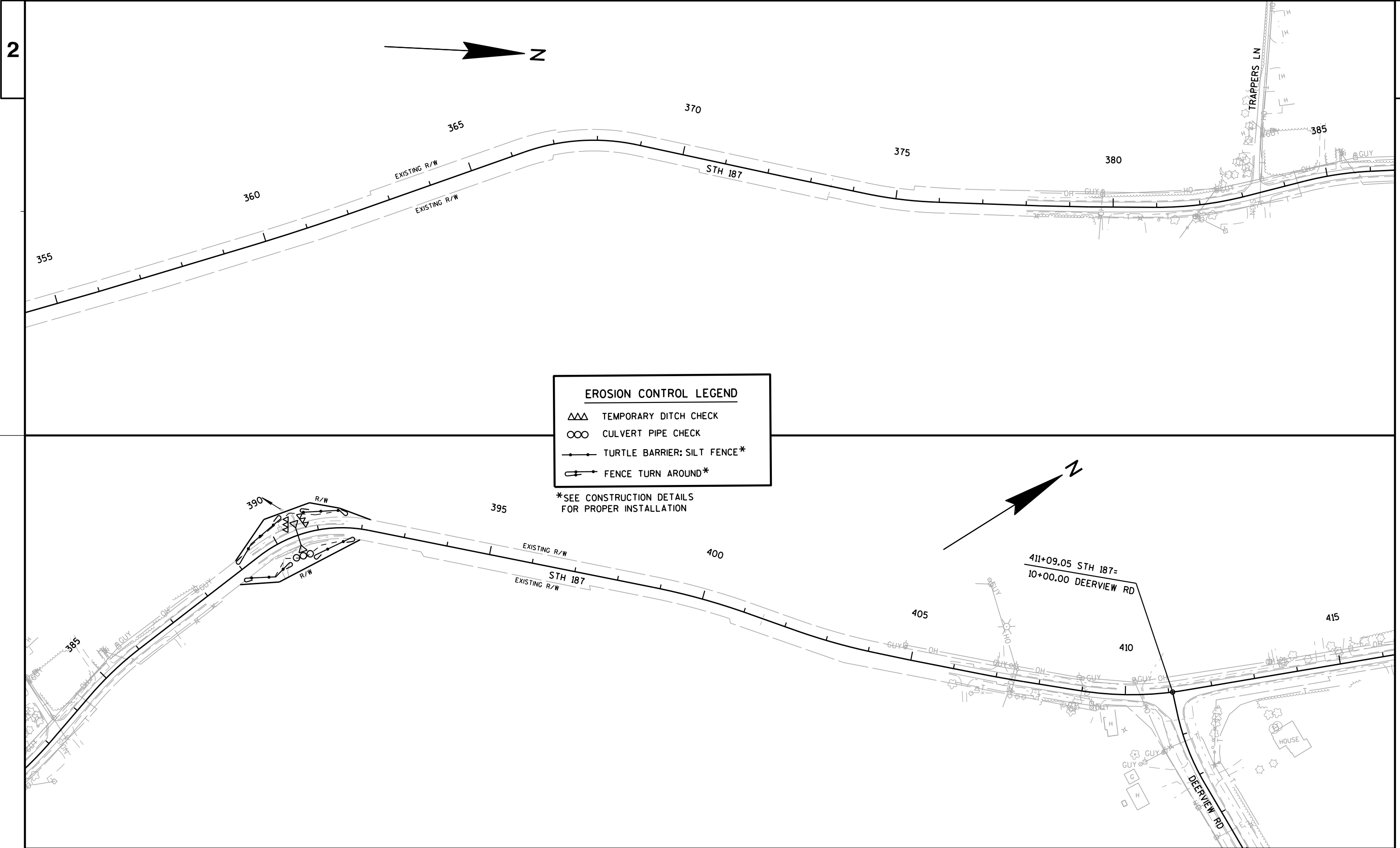
HWY: STH 187

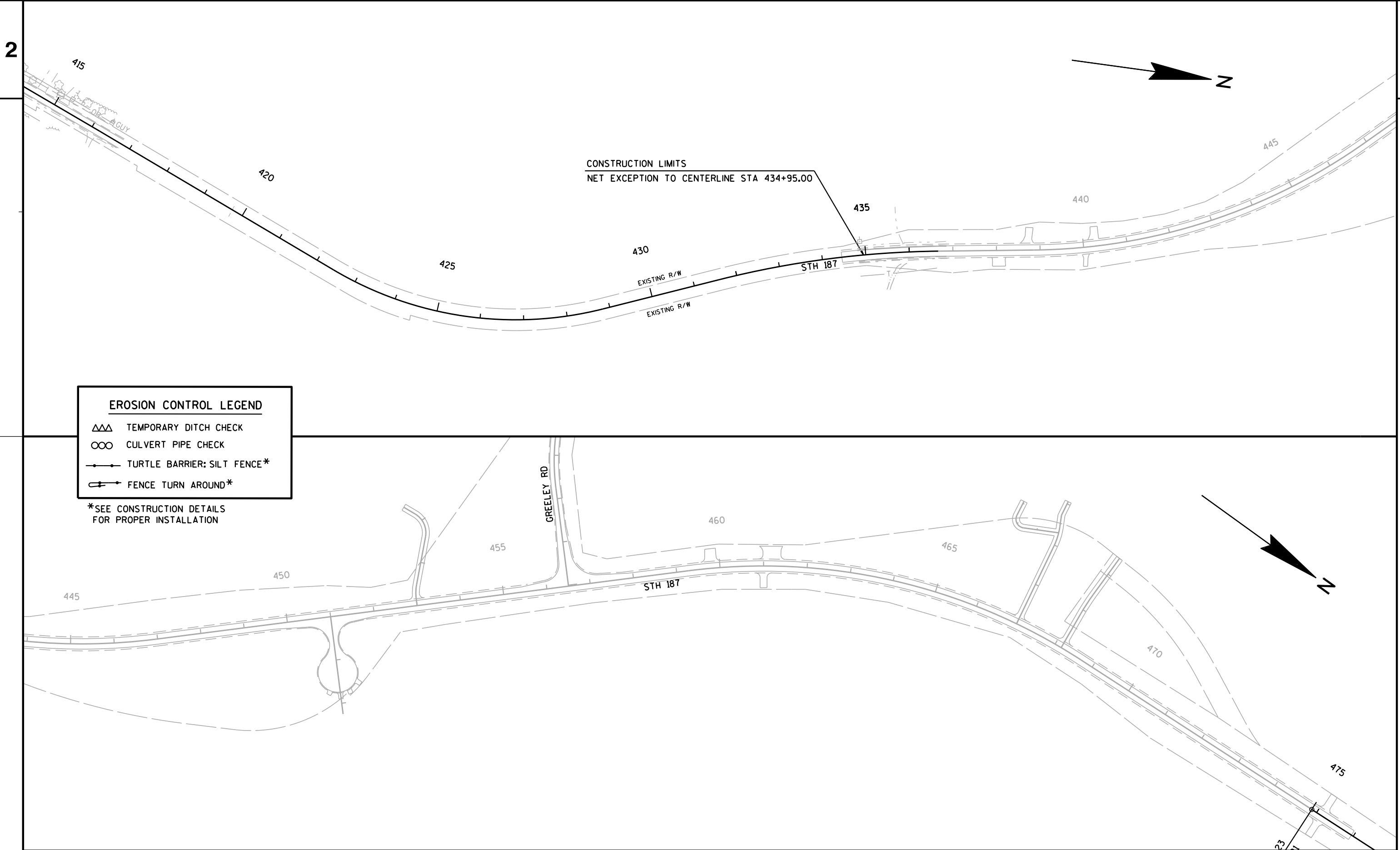
COUNTY: OUTAGAMIE

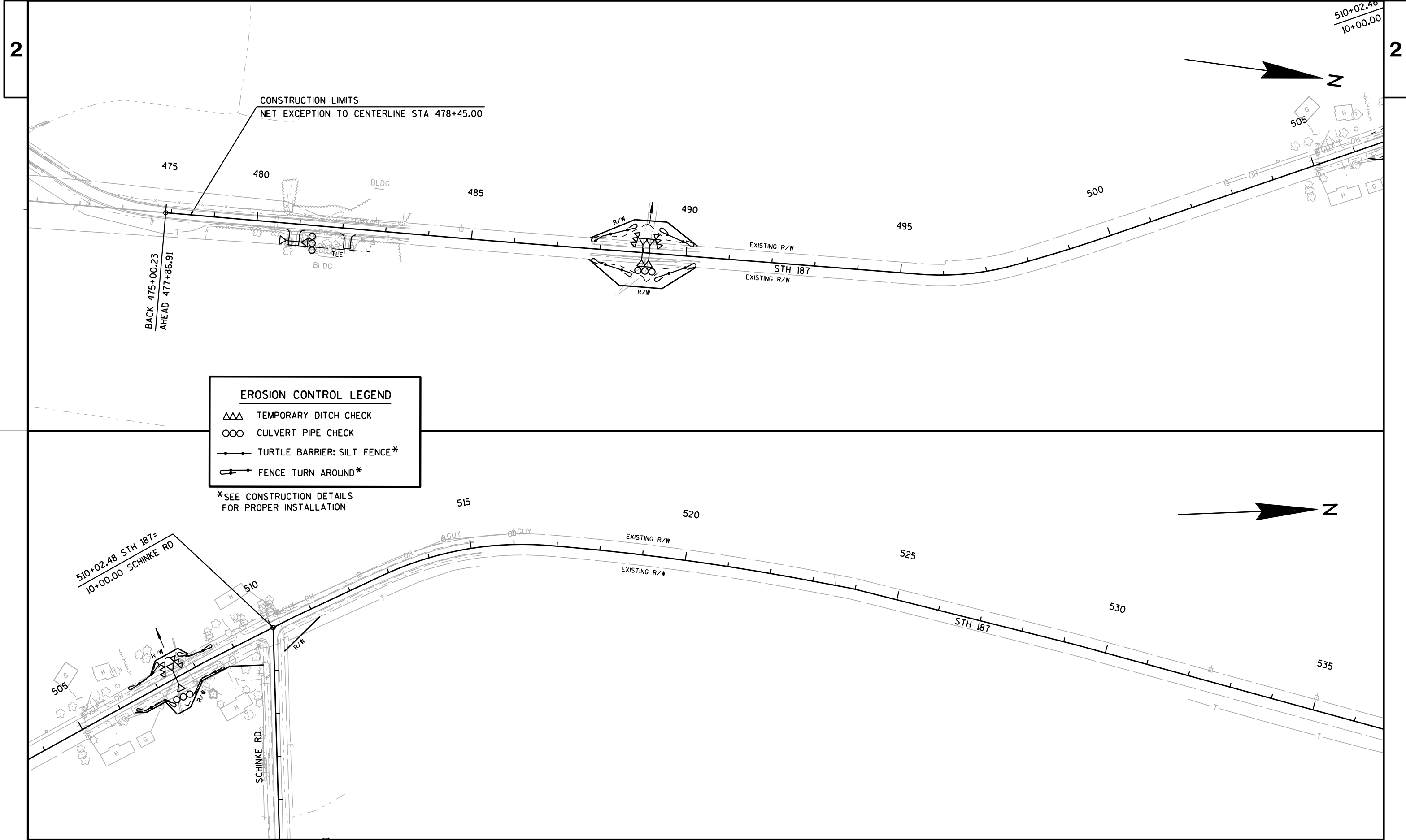
TEMPORARY EROSION CONTROL

SHEET

E







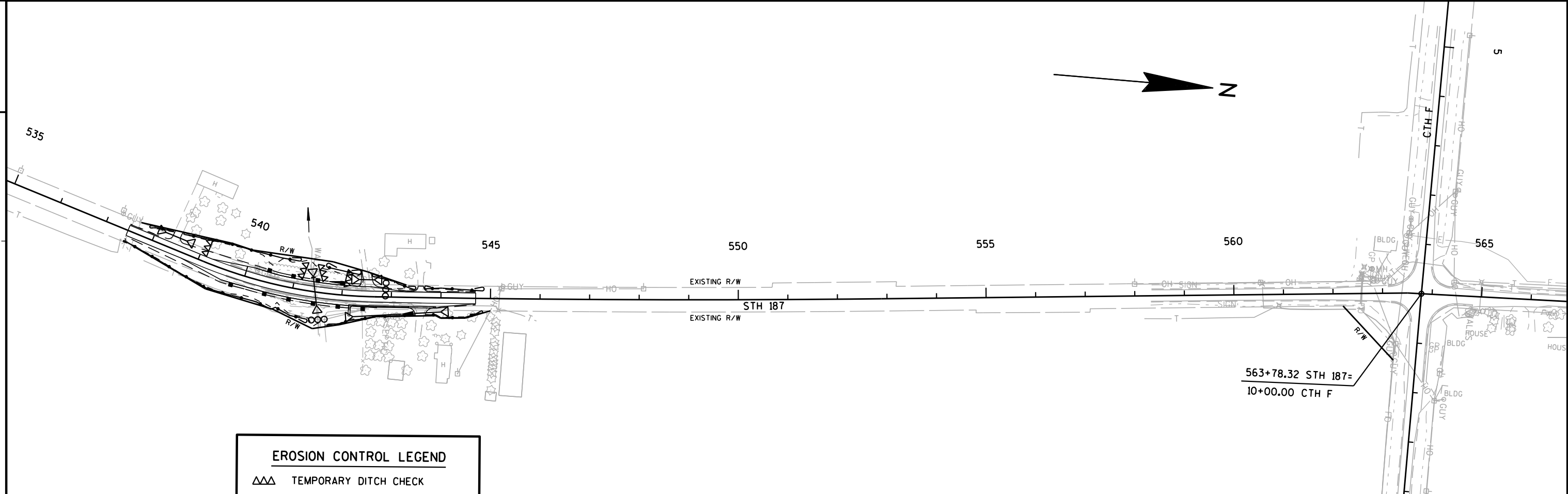
EROSION CONTROL LEGEND

- △△ TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- TURTLE BARRIER: SILT FENCE*
- ⌒ FENCE TURN AROUND*

*SEE CONSTRUCTION DETAILS FOR PROPER INSTALLATION

2

2



EROSION CONTROL LEGEND

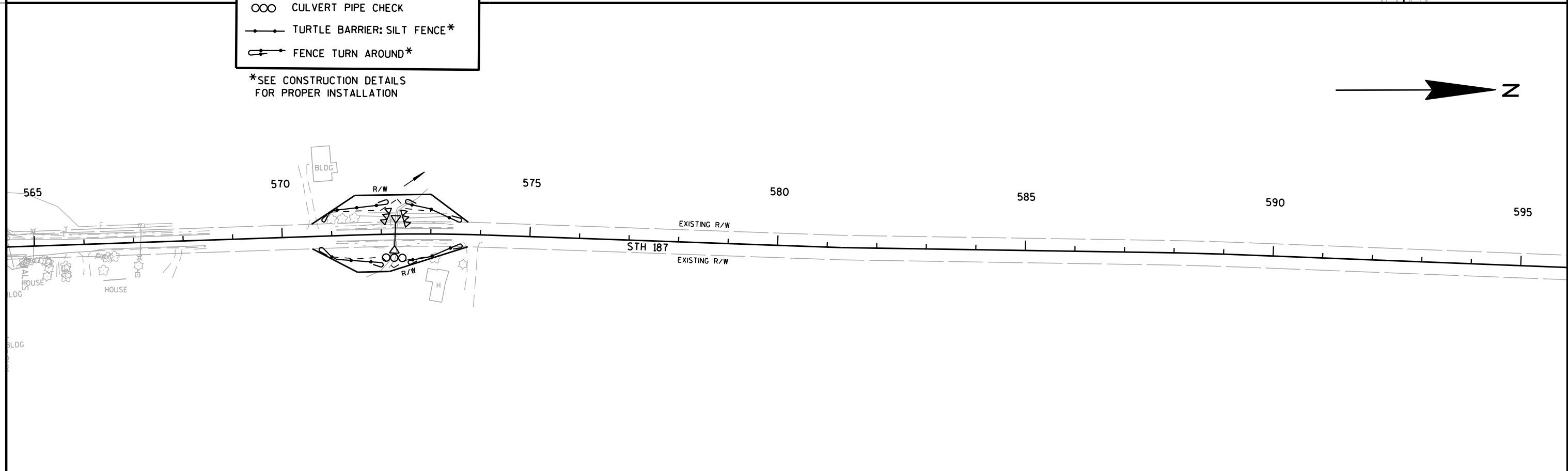
	TEMPORARY DITCH CHECK
	CULVERT PIPE CHECK
	TURTLE BARRIER: SILT FENCE *
	FENCE TURN AROUND *

- EROSION CONTROL LEGEND**

	TEMPORARY DITCH CHECK
	CULVERT PIPE CHECK
	TURTLE BARRIER: SILT FENCE *
	FENCE TURN AROUND *

EROSION CONTROL LEGEND

	TEMPORARY DITCH CHECK
	CULVERT PIPE CHECK
	TURTLE BARRIER: SILT FENCE *
	FENCE TURN AROUND *



PROJECT NO:6520-03-60

HWY: STH 187

COUNTY: OUTAGAMIE

TEMPORARY EROSION CONTROL

SHEET	22
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E

FILE NAME : F:\d3_652003\022009_ec.dgn

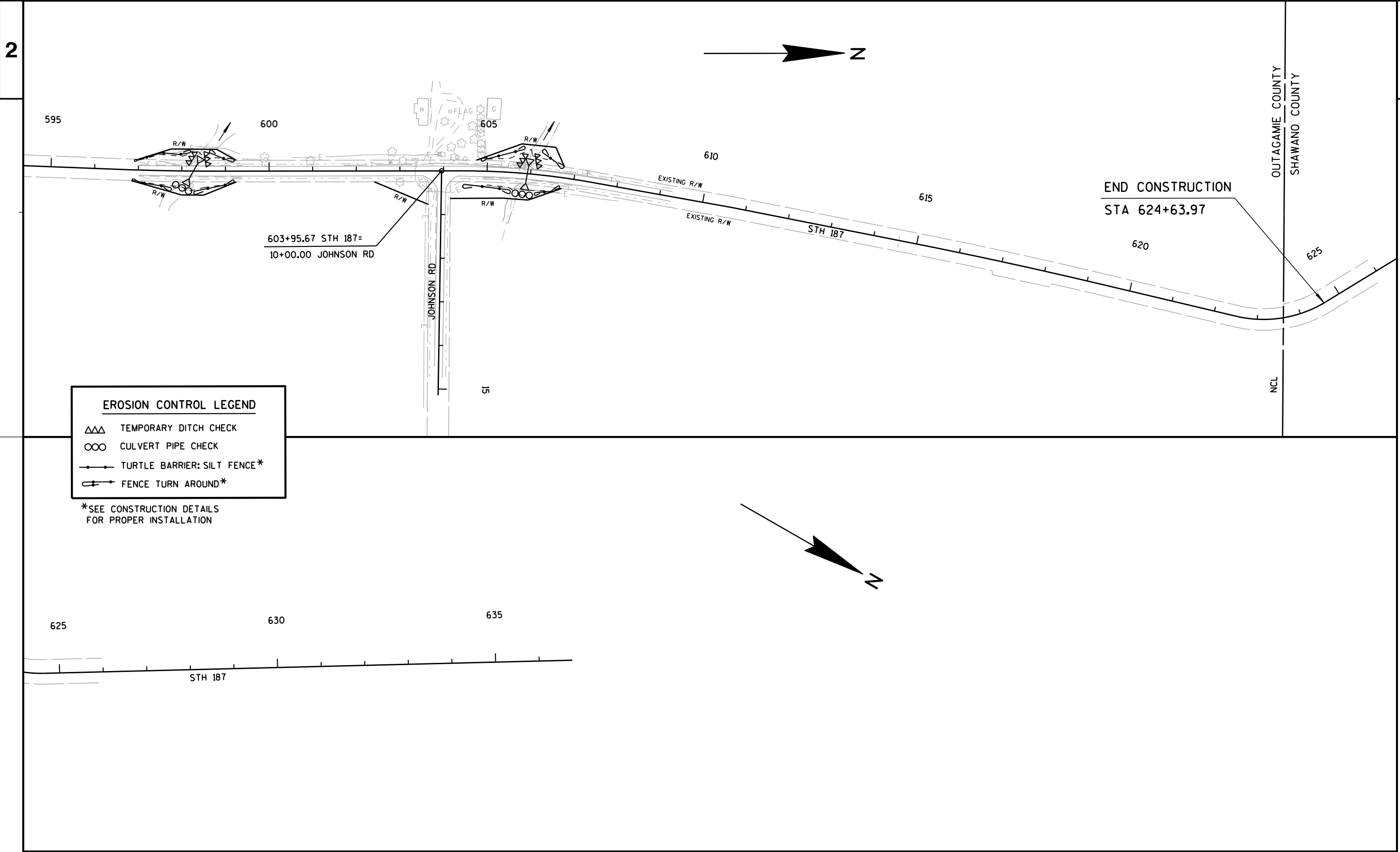
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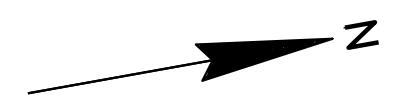
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PLOT NAME : 022009 ec

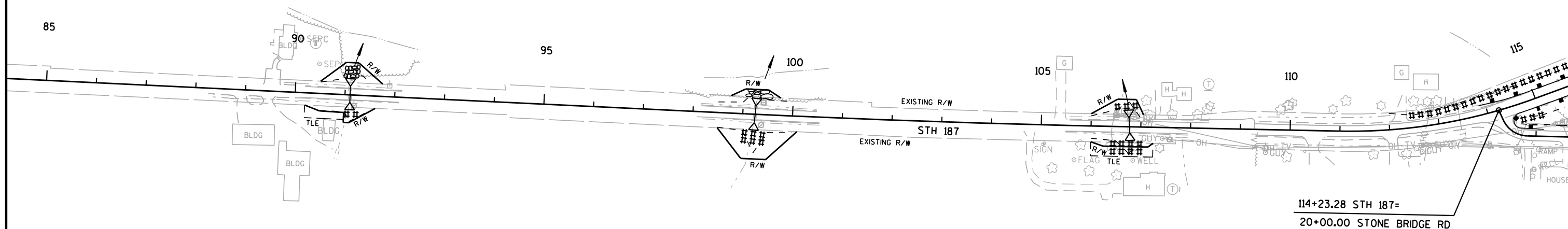
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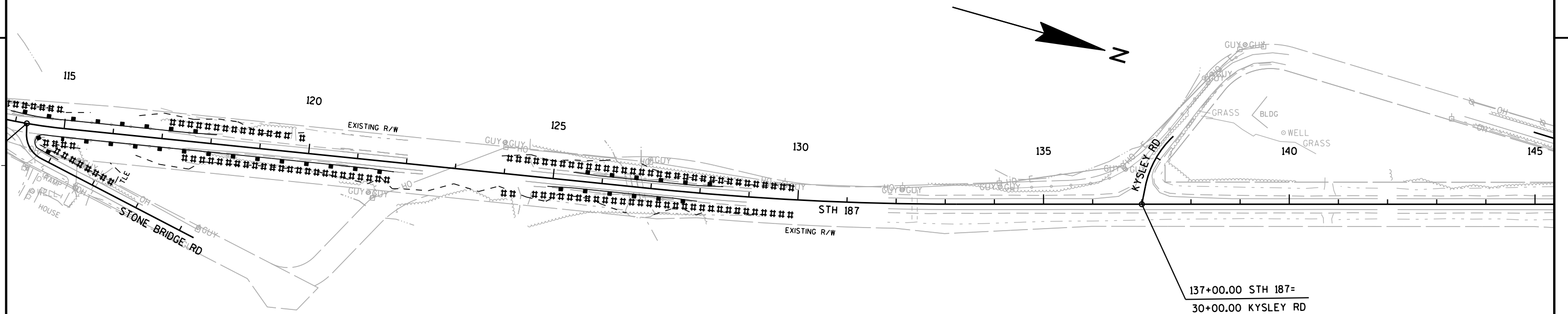
WISDOT/CADDS SHEET 42



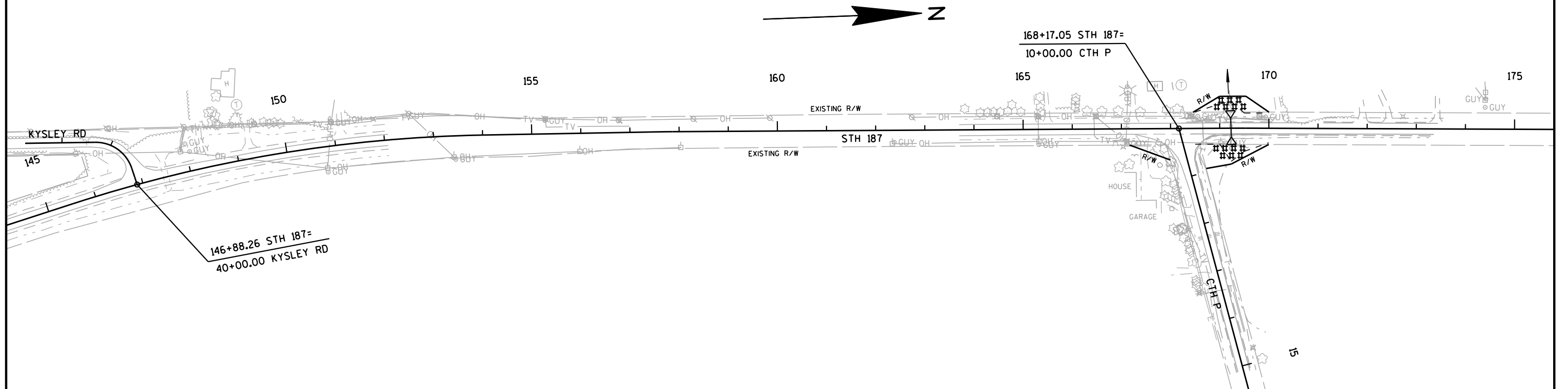


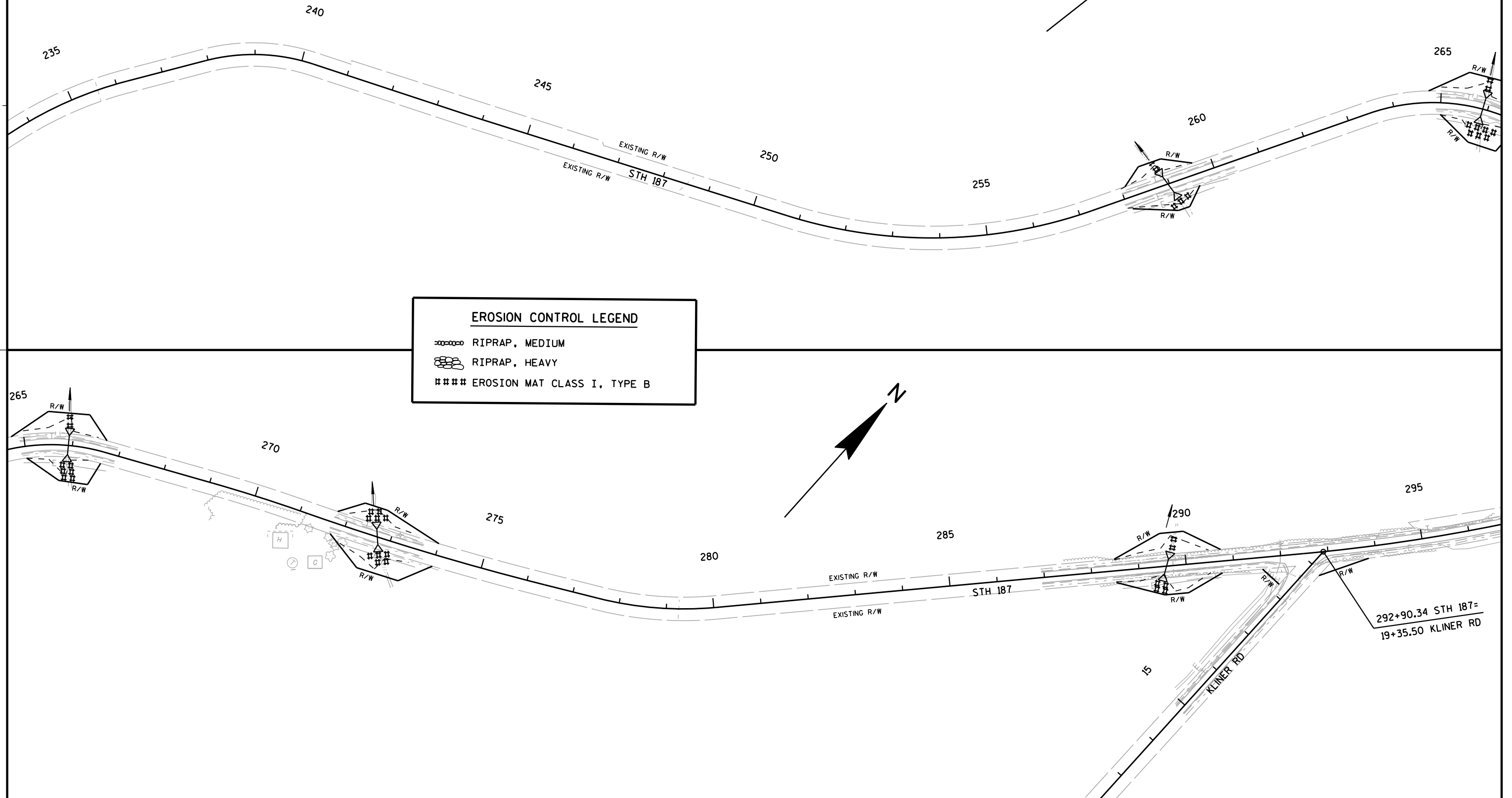
 RIPRAP, MEDIUM
 RIPRAP, HEAVY
 EROSION MAT CLASS I, TYPE B

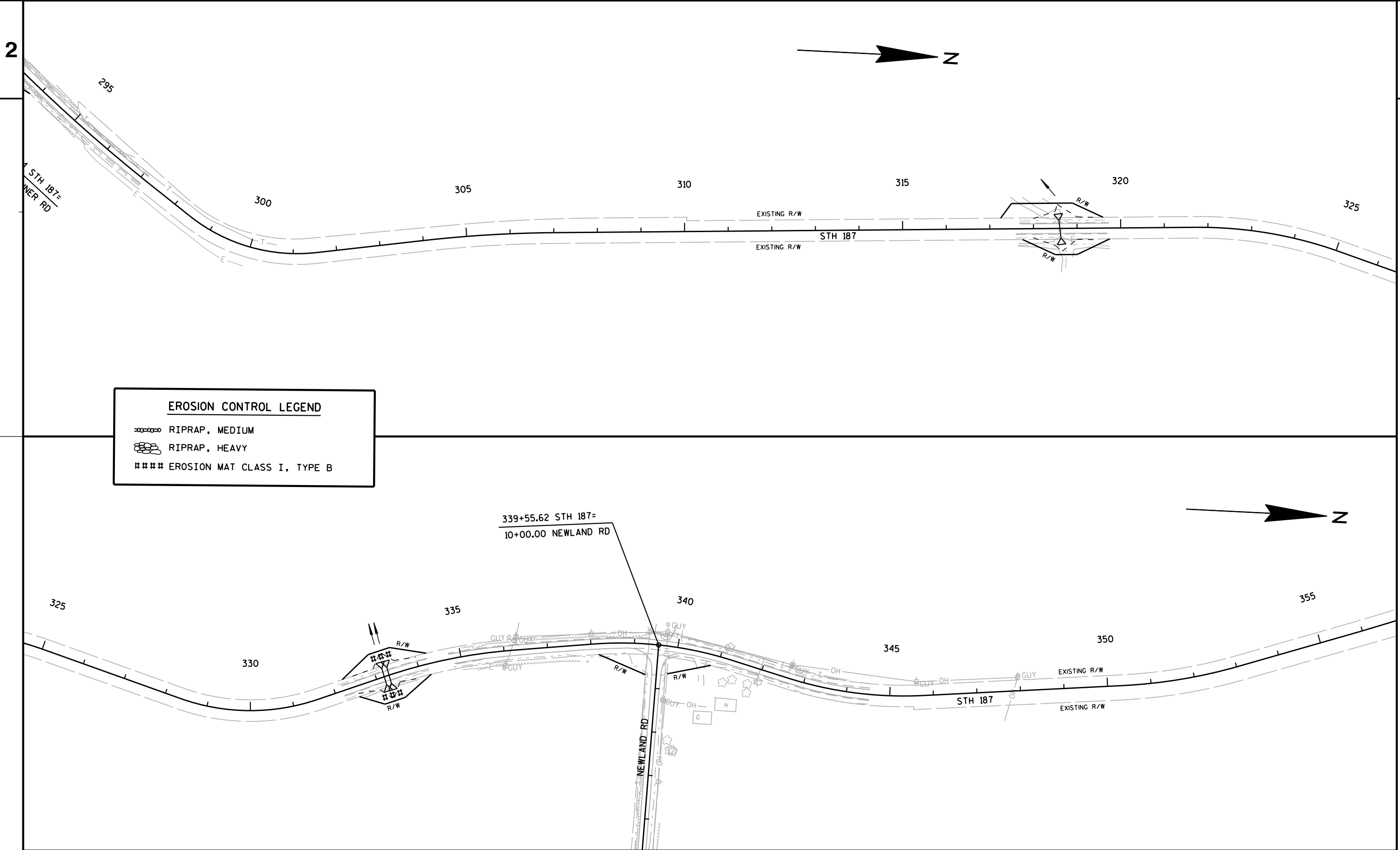


**EROSION CONTROL LEGEND**

-  RIPRAP, MEDIUM
-  RIPRAP, HEAVY
-  EROSION MAT CLASS I, TYPE B

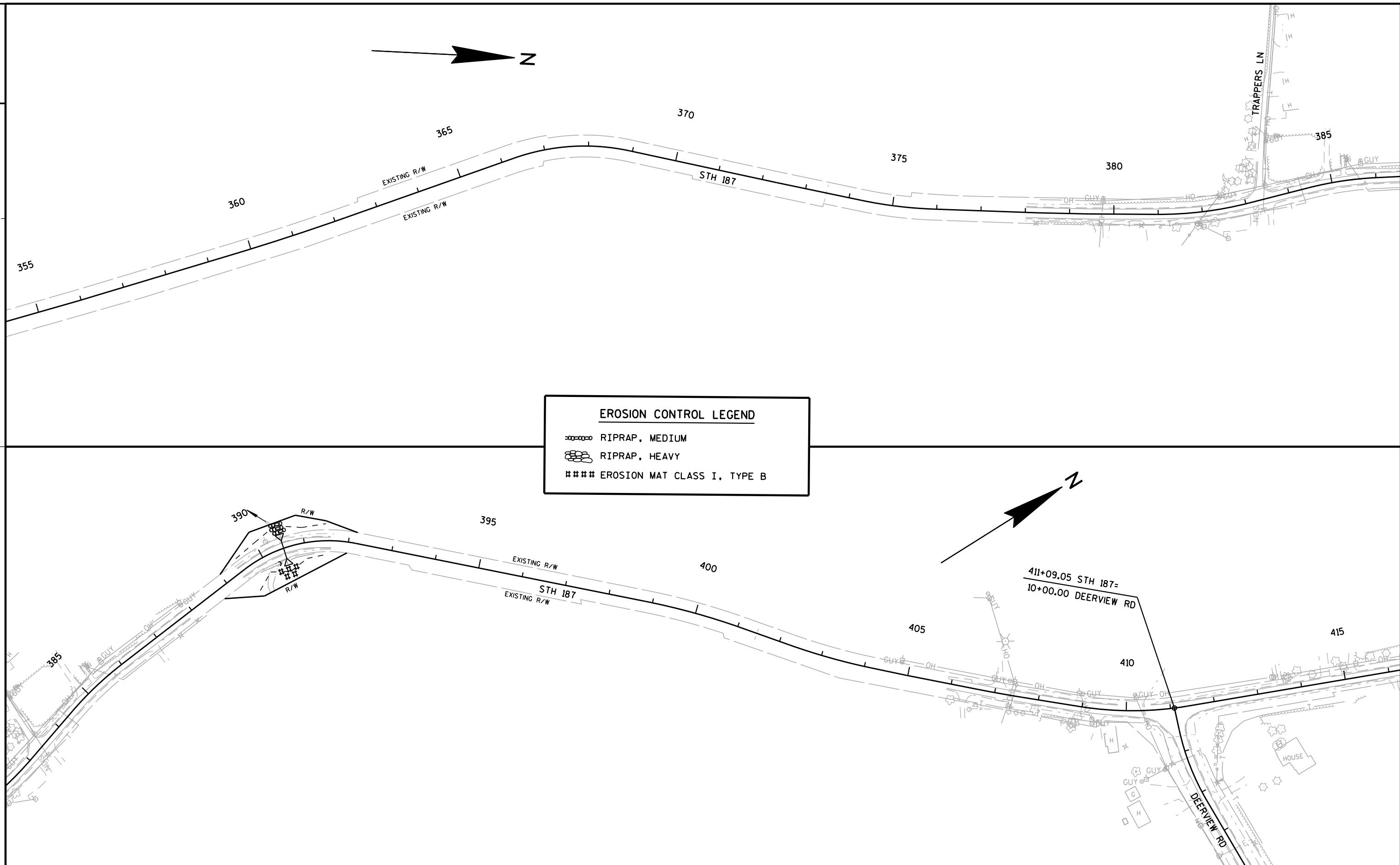






2

2



PROJECT NO:6520-03-60

HWY: STH 187

COUNTY: OUTAGAMIE

PERMANENT EROSION CONTROL

SHEET	29
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E

FILE NAME : F:\d3_652003\022016_ec.dgn

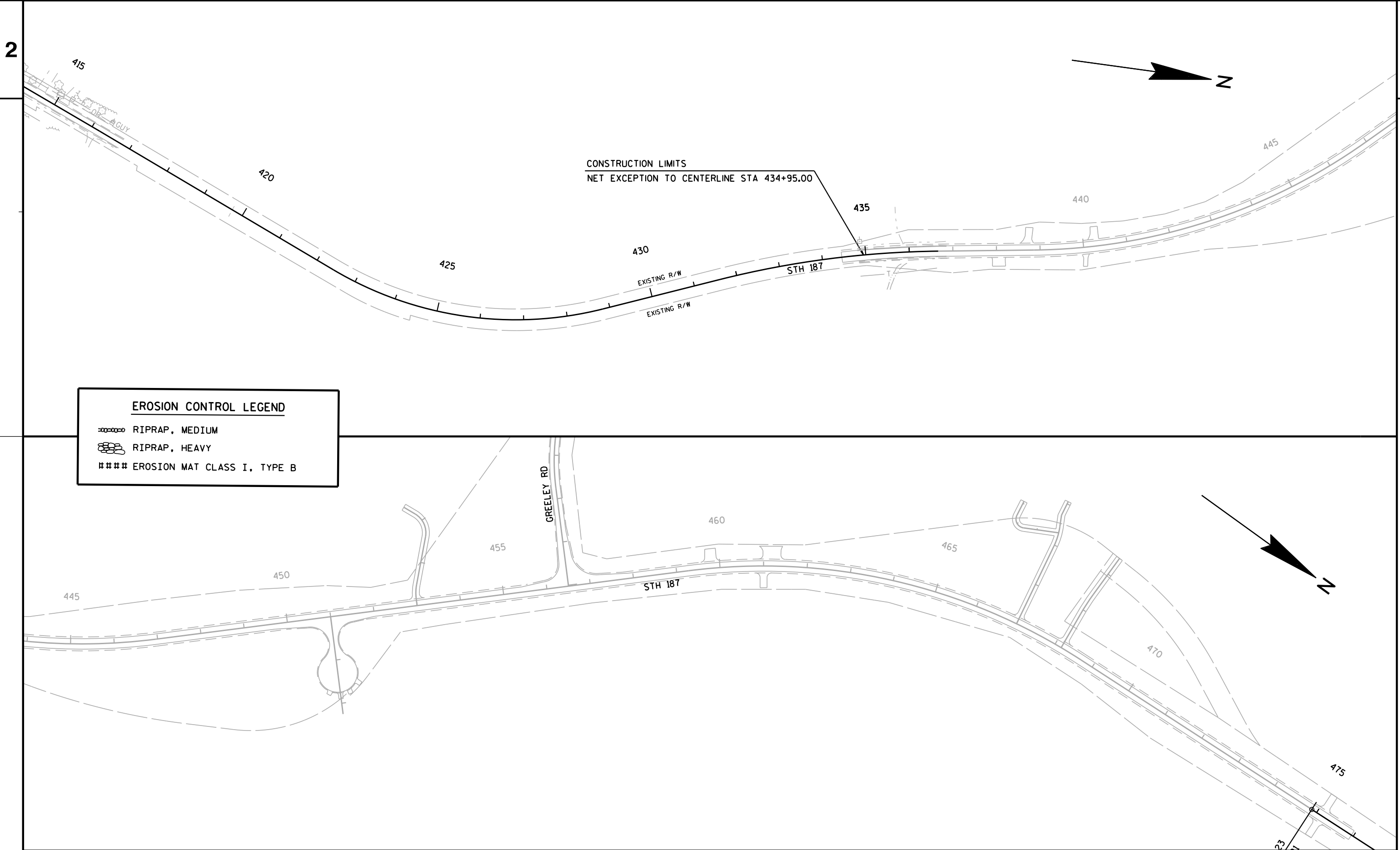
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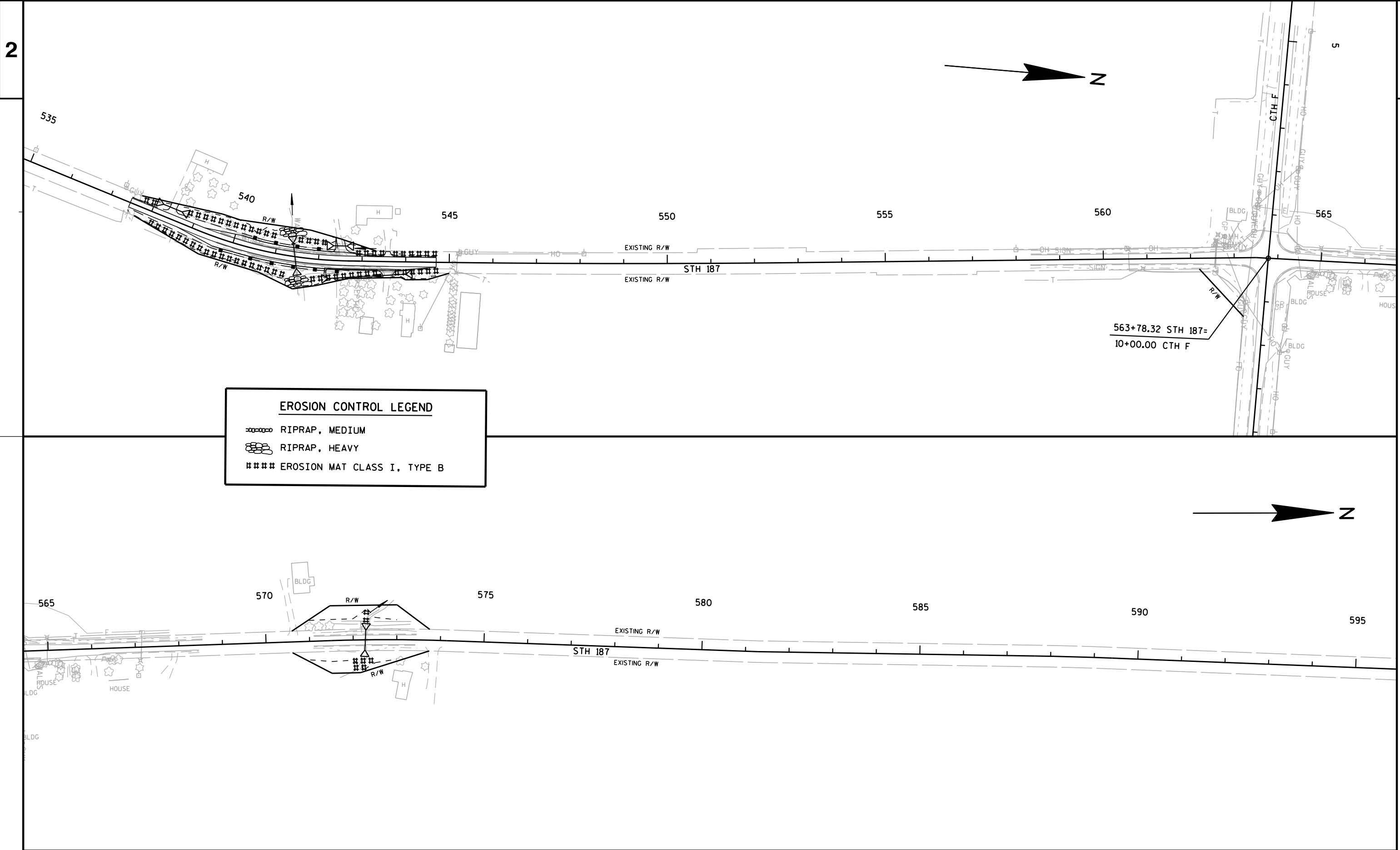
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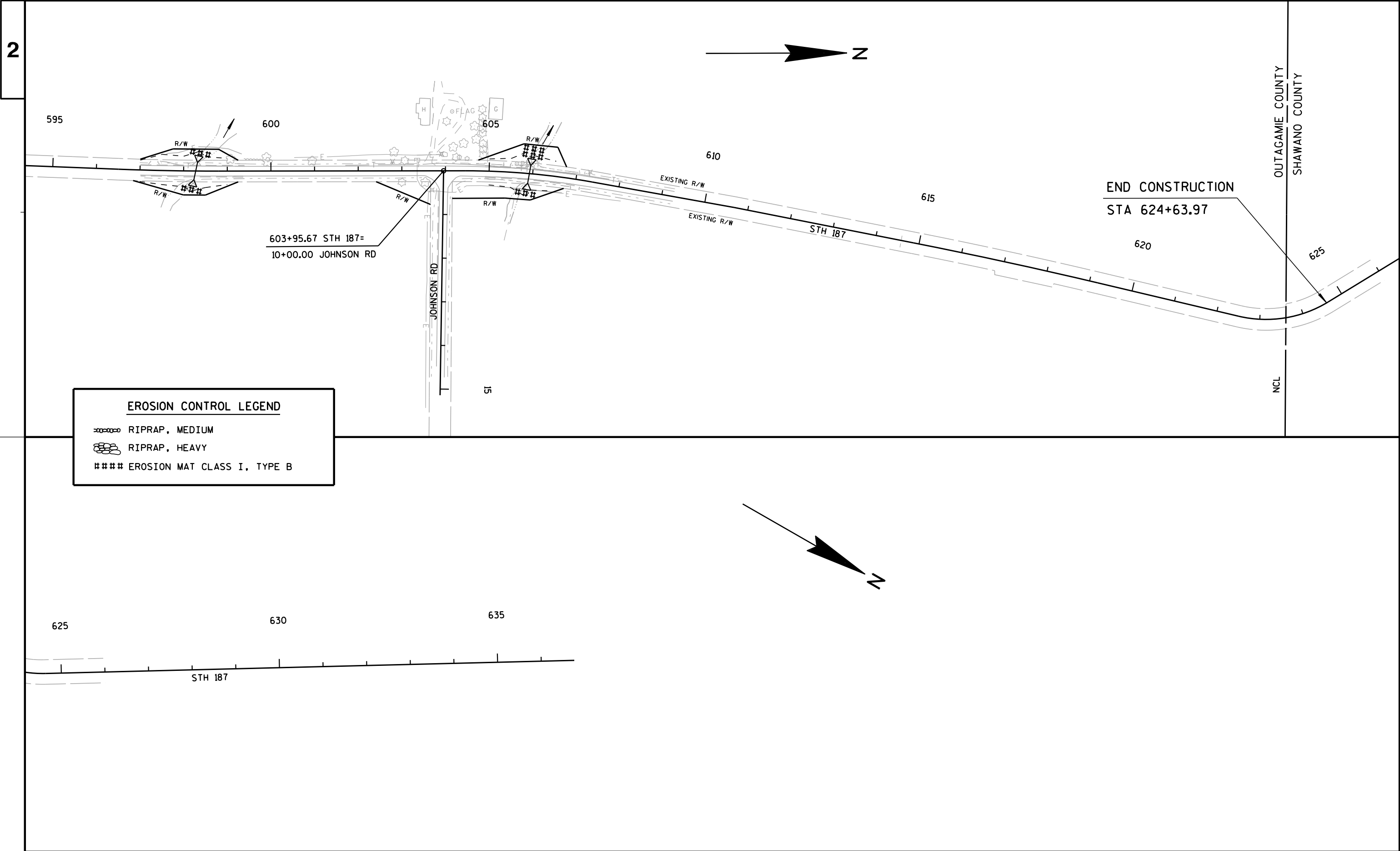
PLOT NAME : 022016 ec PLOT SCALE : 200:1

PLOT SCALE : 200:1

WISDOT/CADDS SHEET 42







SIGNING NOTES

TYPE II SIGNS AND SUPPORTS REMOVED UNDER THE CONTRACT SHALL BE DELIVERED TO THE REGIONAL TRAFFIC UNIT. SIGNS SHALL BE CAREFULLY REMOVED FROM THE SUPPORTS, SORTED BY BASE MATERIAL AND PALLETIZED BY MATERIAL TYPE. SUPPORTS SHALL BE SORTED BY LENGTH AND TYPE. THE REGIONAL TRAFFIC UNIT 920-492-5653, SHALL BE NOTIFIED THREE WORKING DAYS PRIOR TO DELIVERY OF SIGNS AND SUPPORTS.

WHEN AN EXISTING STOP SIGN AND SUPPORT IS TO BE REMOVED AND A NEW STOP SIGN AND SUPPORT ERECTED THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE REMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND ERECTION OF THE NEW SIGN/SUPPORT SHOULD BE DONE AS CONCURRENTLY AS POSSIBLE. IN NO CASE SHALL A NEW SIGN/SUPPORT BE DOWN FOR MORE THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN ONE SIGN OF THE SAME LEGEND MISSING IN A ROW.

WOOD POSTS SIZES, FOR TYPE II SIGNING, ARE ESTIMATED LENGTHS AND THE ACTUAL LENGTH WILL BE DETERMINED IN THE FIELD.

NEW STOP SIGNS (R1-1) PLACED UNDER STAGE * SHALL HAVE A MINIMUM OF 6'6" OF CLEARANCE ABOVE THE ROADWAY. THIS WILL ALLOW FOR THE PLACEMENT OF FUTURE SIGNS BENEATH THE STOP SIGN.

THE NUMBER OF "NO PASSING ZONE" SIGNS (W14-3) ARE ESTIMATED AND THE ACTUAL NUMBER WILL BE DETERMINED AFTER THE ROADWAYS HAVE BEEN SPOTTED.

CURVE ADVISORY SPEEDS (W13-1) WILL BE DETERMINED IN THE FIELD.

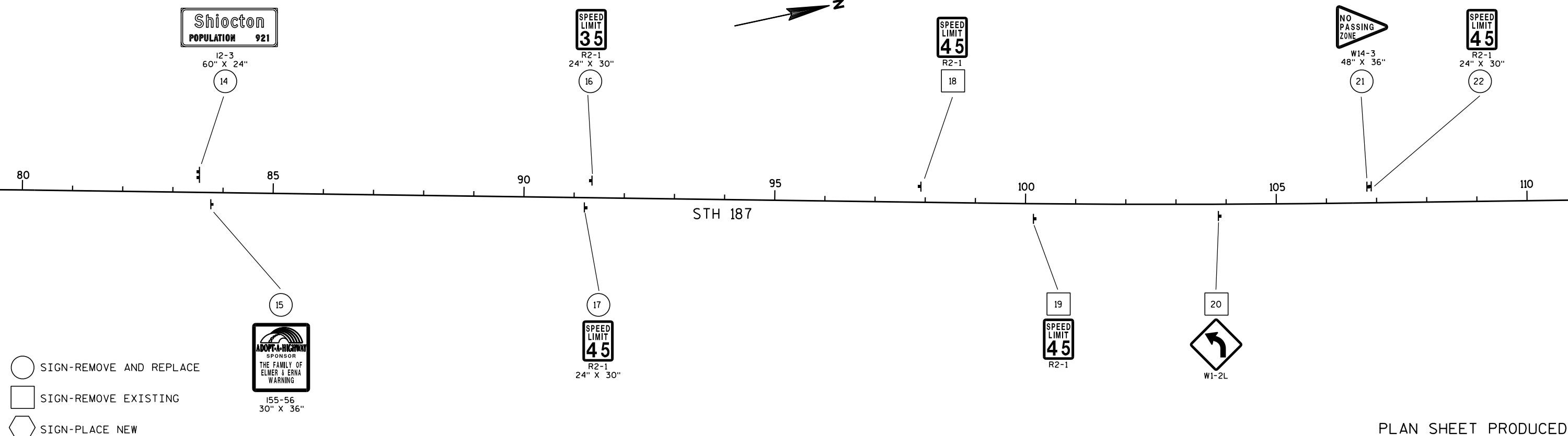
STH 54

STH 187

W MAPLE CT

E MAPLE CT

SOMMERS ST



- SIGN-REMOVE AND REPLACE
- SIGN-REMOVE EXISTING
- SIGN-PLACE NEW

PLAN SHEET PRODUCED
BY WISDOT-NE REGION

PROJECT NO:6520-03-30

HWY:STH 187

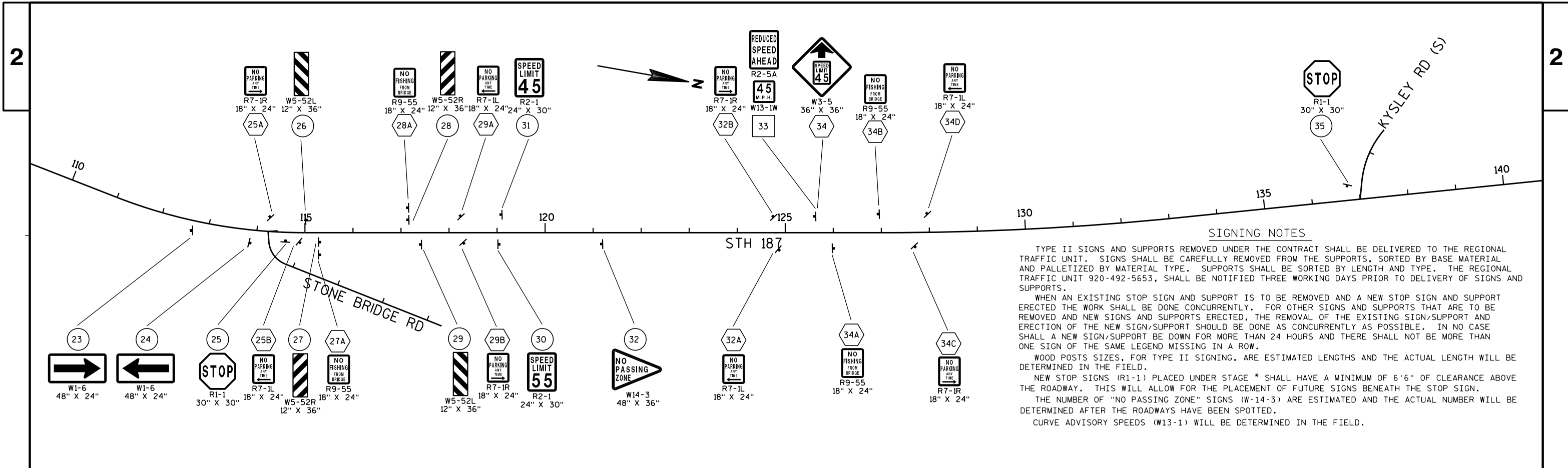
COUNTY:OUTAGAMIE

PERMANENT SIGNING

SHEET

34

E



SIGNING NOTES

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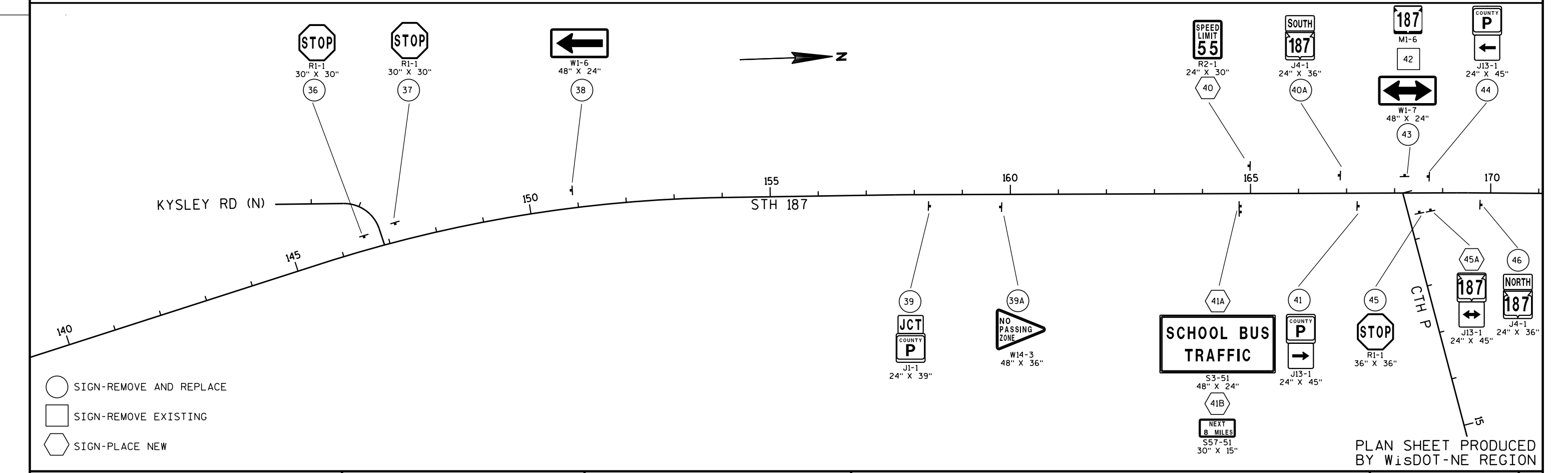
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CURVE ADVISORY SPEEDS (W13-1) WILL BE DETERMINED IN THE FIELD.



- SIGN-REMOVE AND REPLACE
- SIGN-REMOVE EXISTING
- SIGN-PLACE NEW

PLAN SHEET PRODUCED BY WISDOT-NE REGION



24" X 39"

47A

170

175

180

185

190

195

200

STH 187

SIGNING NOTES

TYPE II SIGNS AND SUPPORTS REMOVED UNDER THE CONTRACT SHALL BE DELIVERED TO THE REGIONAL TRAFFIC UNIT. SIGNS SHALL BE CAREFULLY REMOVED FROM THE SUPPORTS, SORTED BY BASE MATERIAL AND PALLETIZED BY MATERIAL TYPE. SUPPORTS SHALL BE SORTED BY LENGTH AND TYPE. THE REGIONAL TRAFFIC UNIT 920-492-5653, SHALL BE NOTIFIED THREE WORKING DAYS PRIOR TO DELIVERY OF SIGNS AND SUPPORTS.

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CURVE ADVISORY SPEEDS (W13-1) WILL BE DETERMINED IN THE FIELD.

47



24" X 30"

48

155-56
30" X 36"W14-3
48" X 36"

49

W14-3
48" X 36"

51

200

205

210

215

220

225

230

STH 187

○ SIGN-REMOVE AND REPLACE

□ SIGN-REMOVE EXISTING

⬡ SIGN-PLACE NEW

W14-3
48" X 36"

48A

W1-1R
36" X 36"

50

50A

SPEED TO BE
DETERMINED
IN THE FIELDW13-1
24" X 24"W14-3
48" X 36"

52

PROJECT NO:6520-03-30

HWY:STH 187

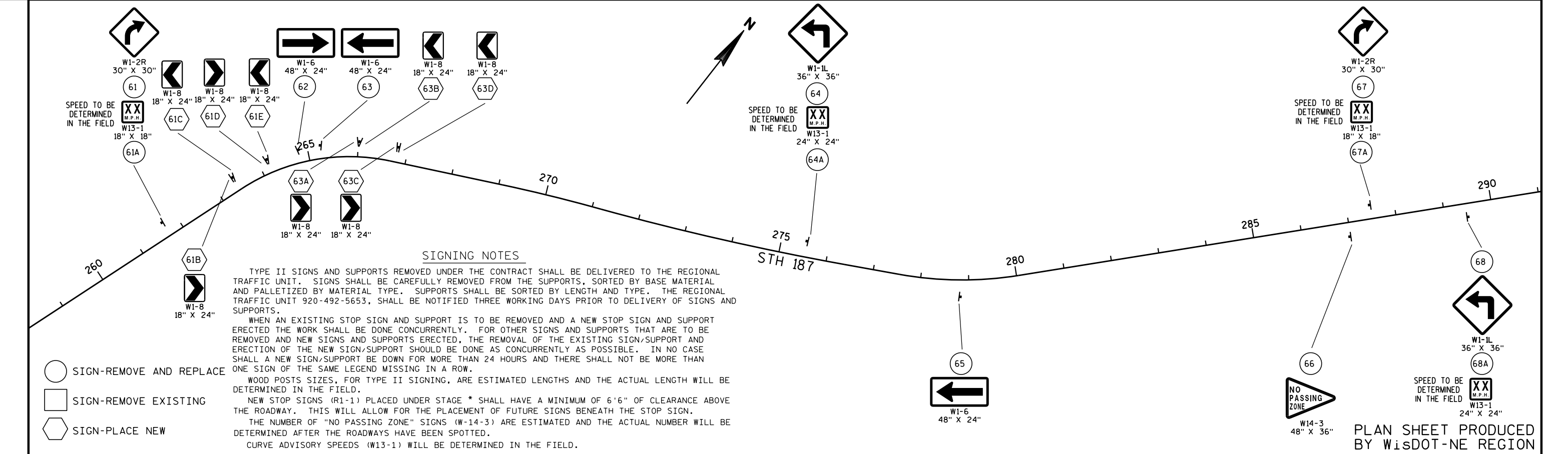
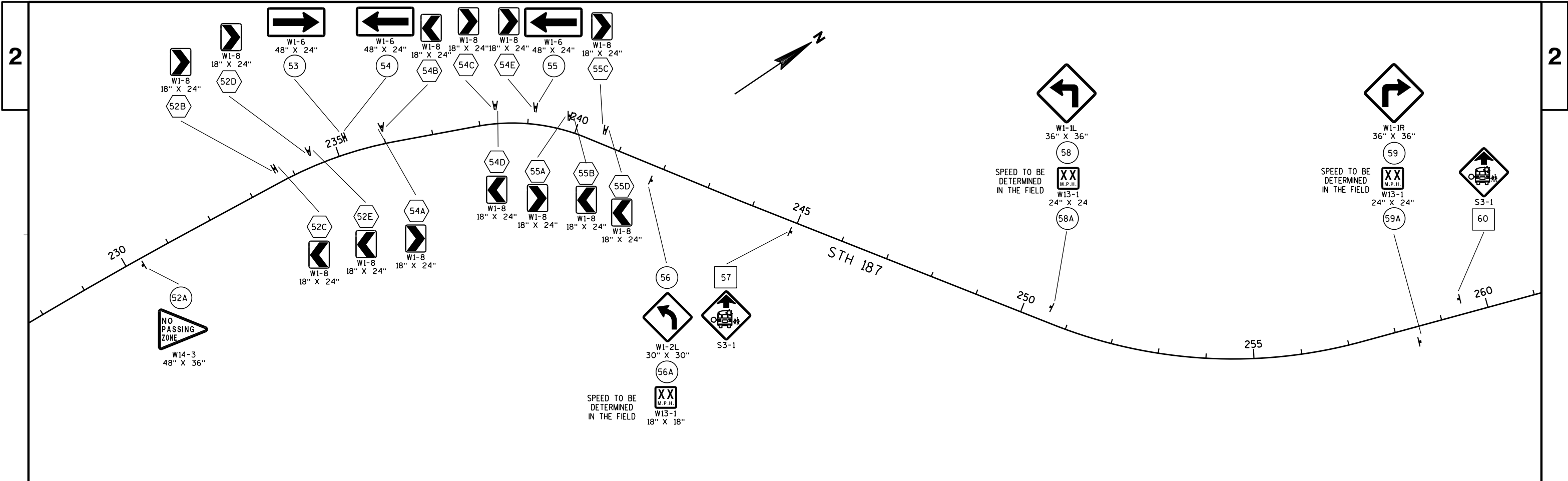
COUNTY:OUTAGAMIE

PERMANENT SIGNING

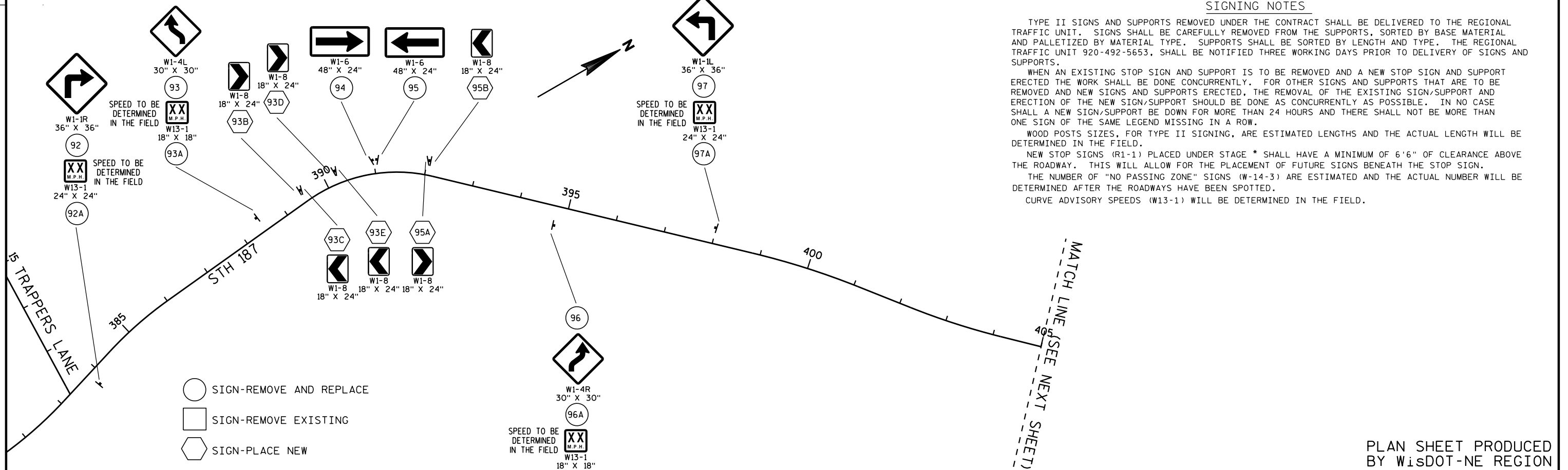
SHEET

36

E





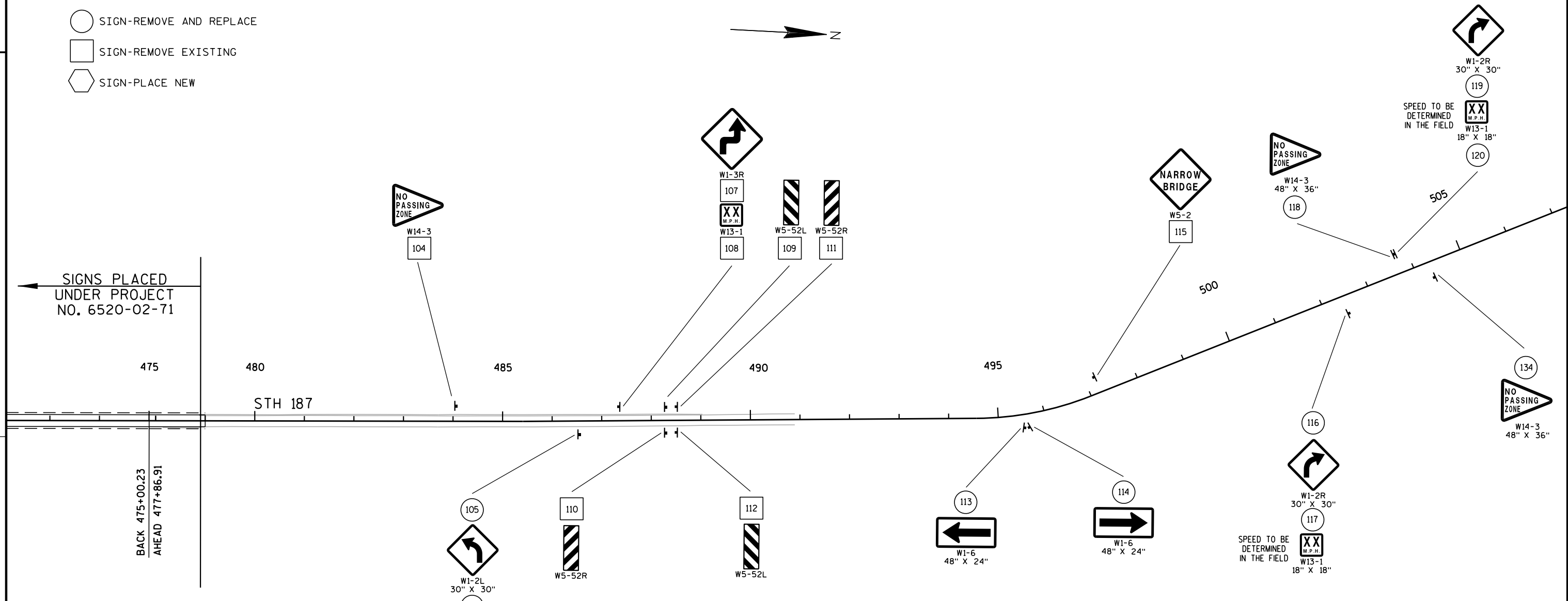


CURVE ADVISORY SPEEDS (W13-1) WILL BE DETERMINED IN THE FIELD.



2

2



SIGNING NOTES

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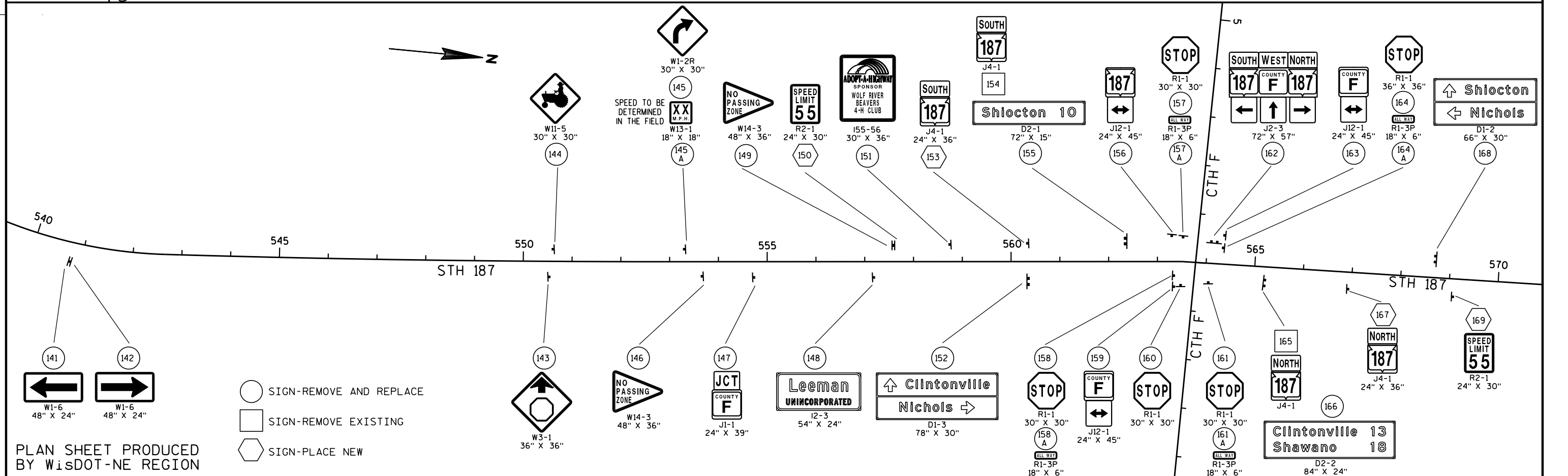
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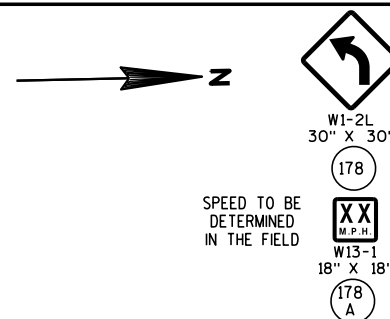
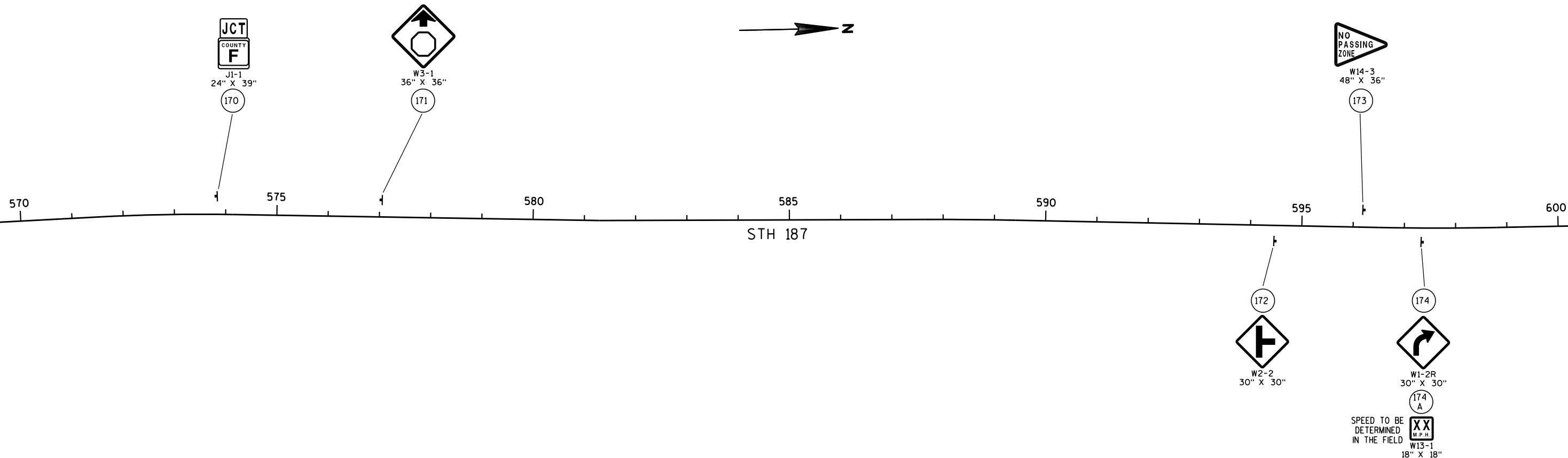
THE NUMBER OF "NO PASSING ZONE" SIGNS (W-14-3) ARE ESTIMATED AND THE ACTUAL NUMBER WILL BE DETERMINED AFTER THE ROADWAYS HAVE BEEN SPOTTED.

CURVE ADVISORY SPEEDS (W13-1) WILL BE DETERMINED IN THE FIELD.

PLAN SHEET PRODUCED
BY WisDOT-NE REGION



42



SIGNING NOTES

TYPE II SIGNS AND SUPPORTS REMOVED UNDER THE CONTRACT SHALL BE DELIVERED TO THE REGIONAL TRAFFIC UNIT. SIGNS SHALL BE CAREFULLY REMOVED FROM THE SUPPORTS, SORTED BY BASE MATERIAL AND PALLETIZED BY MATERIAL TYPE. SUPPORTS SHALL BE SORTED BY LENGTH AND TYPE. THE REGIONAL TRAFFIC UNIT 920-492-5653, SHALL BE NOTIFIED THREE WORKING DAYS PRIOR TO DELIVERY OF SIGNS AND SUPPORTS.

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CURVE ADVISORY SPEEDS (W13-1) WILL BE DETERMINED IN THE FIELD.

- SIGN-REMOVE AND REPLACE
- SIGN-REMOVE EXISTING
- SIGN-PLACE NEW

PROJECT NO:6520-03-30

HWY:STH 187

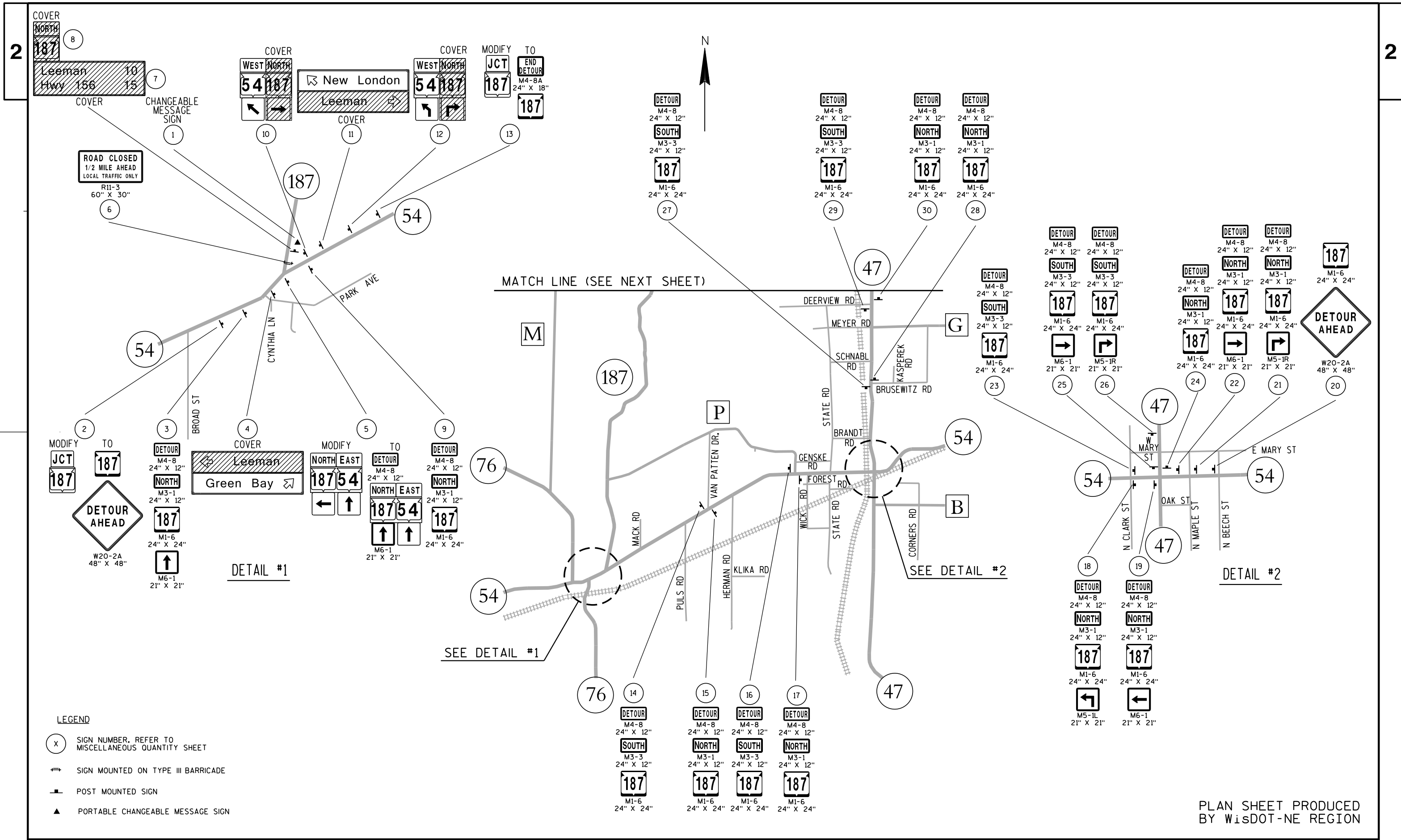
COUNTY:OUTAGAMIE

PERMANENT SIGNING

SHEET

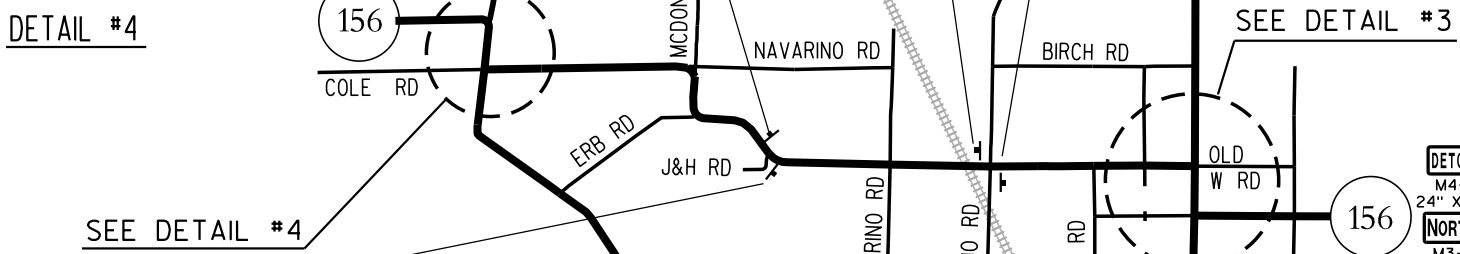
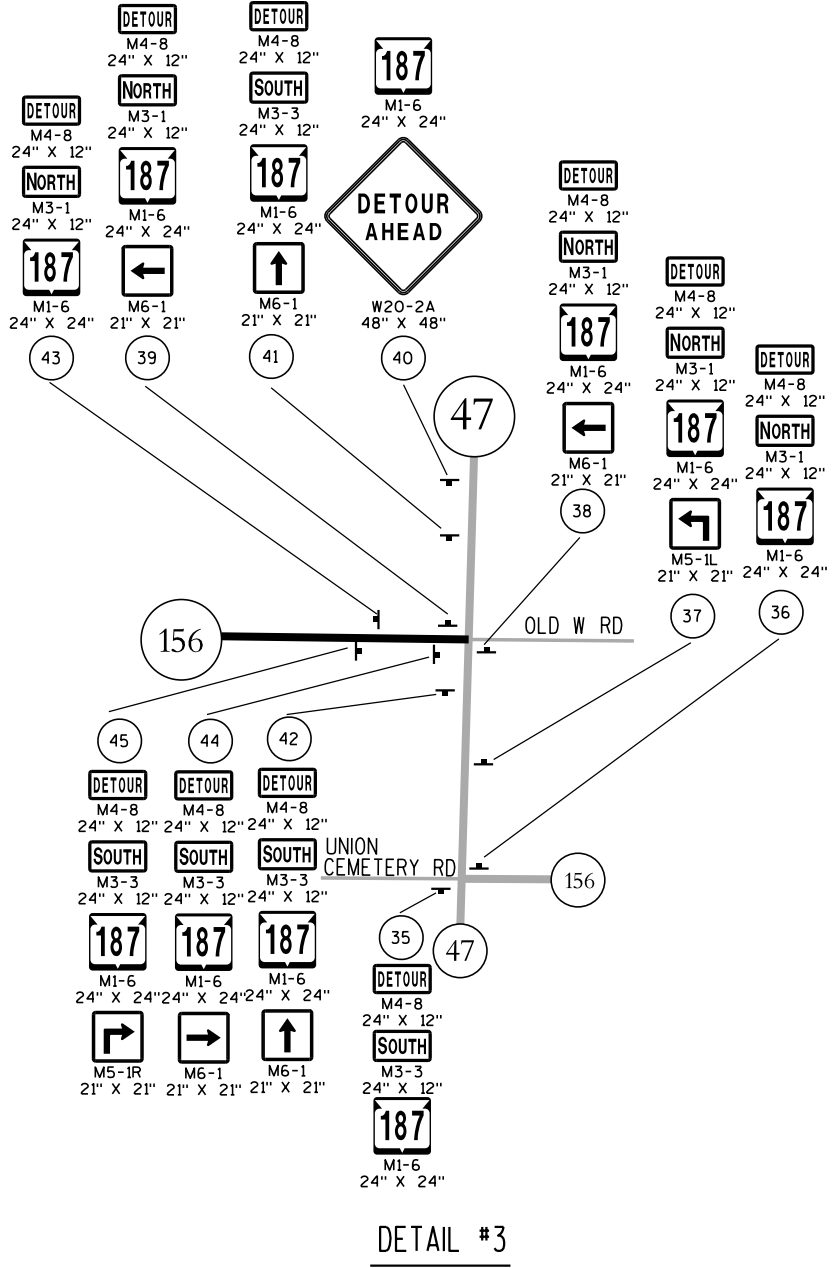
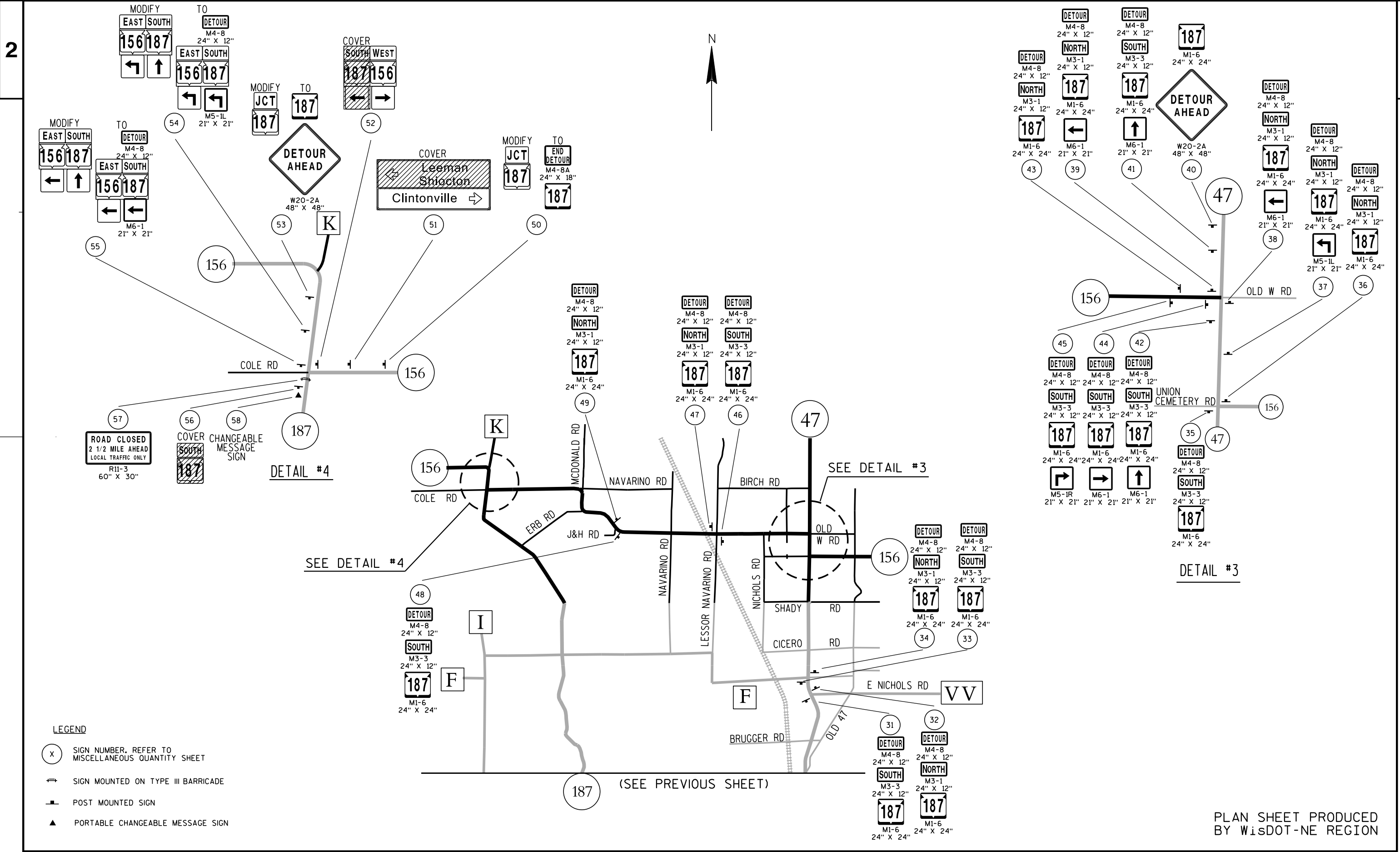
43

E



- LEGEND
- (X) SIGN NUMBER. REFER TO MISCELLANEOUS QUANTITY SHEET
 - ➡ SIGN MOUNTED ON TYPE III BARRICADE
 - POST MOUNTED SIGN
 - ▲ PORTABLE CHANGEABLE MESSAGE SIGN

PLAN SHEET PRODUCED
BY WISDOT-NE REGION



- LEGEND
- (X) SIGN NUMBER. REFER TO MISCELLANEOUS QUANTITY SHEET
 - ⇄ SIGN MOUNTED ON TYPE III BARRICADE
 - POST MOUNTED SIGN
 - ▲ PORTABLE CHANGEABLE MESSAGE SIGN

PLAN SHEET PRODUCED BY WisDOT-NE REGION

3

DATE 25JUN15		E S T I M A T E O F Q U A N T I T I E S			
LINE		6520-03-60			
NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	QUANTITY
0010	201.0105	Clearing	STA	63.000	63.000
0020	201.0120	Clearing	ID	150.000	150.000
0030	201.0205	Grubbing	STA	63.000	63.000
0040	201.0220	Grubbing	ID	150.000	150.000
0050	203.0100	Removing Small Pipe Culverts	EACH	26.000	26.000
0060	203.0200	Removing Old Structure (station) 01. 489+06	LS	1.000	1.000
0070	203.0200	Removing Old Structure (station) 02. 541+45	LS	1.000	1.000
0080	203.0200	Removing Old Structure (station) 03. 572+28	LS	1.000	1.000
0090	204.0110	Removing Asphaltic Surface	SY	2,400.000	2,400.000
0100	204.0115	Removing Asphaltic Surface Butt Joints	SY	140.000	140.000
0110	204.0120	Removing Asphaltic Surface Milling	SY	2,800.000	2,800.000
0120	204.0165	Removing Guardrail	LF	1,600.000	1,600.000
0130	205.0100	Excavation Common	CY	5,026.000	5,026.000
0140	213.0100	Finishing Roadway (project) 01. 6520-03-60	EACH	1.000	1.000
0150	305.0110	Base Aggregate Dense 3/4-Inch	TON	9,550.000	9,550.000
0160	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	2,205.000	2,205.000
0170	305.0500	Shaping Shoulders	STA	1,039.000	1,039.000
0180	390.0201	Base Patching Asphaltic	TON	240.000	240.000
0190	440.4410.S	Incentive IRI Ride	DOL	39,350.000	39,350.000
0200	455.0105	Asphaltic Material PG58-28	TON	1,220.000	1,220.000
0210	455.0605	Tack Coat	GAL	18,700.000	18,700.000
0220	460.1100	HMA Pavement Type E-0.3	TON	22,000.000	22,000.000
0230	460.2000	Incentive Density HMA Pavement	DOL	13,280.000	13,280.000
0240	460.4110.S	Reheating HMA Pavement Longitudinal Joints	LF	51,970.000	51,970.000
0250	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	395.000	395.000
0260	465.0315	Asphaltic Flumes	SY	12.000	12.000
0270	504.0900	Concrete Masonry Endwalls	CY	34.000	34.000
0280	521.0112	Culvert Pipe Corrugated Steel 12-Inch	LF	247.000	247.000
0290	521.0118	Culvert Pipe Corrugated Steel 18-Inch	LF	84.000	84.000
0300	521.1012	Apron Endwalls for Culvert Pipe Steel 12-Inch	EACH	16.000	16.000
0310	521.1018	Apron Endwalls for Culvert Pipe Steel 18-Inch	EACH	4.000	4.000
0320	522.0124	Culvert Pipe Reinforced Concrete Class III 24-Inch	LF	460.000	460.000
0330	522.0136	Culvert Pipe Reinforced Concrete Class III 36-Inch	LF	74.000	74.000
0340	522.0196	Culvert Pipe Reinforced Concrete Class III 96-Inch	LF	116.000	116.000
0350	522.0324	Culvert Pipe Reinforced Concrete Class IV 24-Inch	LF	560.000	560.000
0360	522.0330	Culvert Pipe Reinforced Concrete Class IV 30-Inch	LF	70.000	70.000
0370	522.0336	Culvert Pipe Reinforced Concrete Class IV 36-Inch	LF	238.000	238.000
0380	522.0342	Culvert Pipe Reinforced Concrete Class IV 42-Inch	LF	74.000	74.000
0390	522.0348	Culvert Pipe Reinforced Concrete Class IV 48-Inch	LF	136.000	136.000
0400	522.0372	Culvert Pipe Reinforced Concrete Class IV 72-Inch	LF	74.000	74.000

3

3

DATE 25JUN15		E S T I M A T E O F Q U A N T I T I E S			
LINE				6520-03-60	
NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	QUANTITY
0410	522.1024	Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	EACH	26.000	26.000
0420	522.1030	Apron Endwalls for Culvert Pipe Reinforced Concrete 30-Inch	EACH	2.000	2.000
0430	522.1036	Apron Endwalls for Culvert Pipe Reinforced Concrete 36-Inch	EACH	8.000	8.000
0440	522.1042	Apron Endwalls for Culvert Pipe Reinforced Concrete 42-Inch	EACH	2.000	2.000
0450	522.1072	Apron Endwalls for Culvert Pipe Reinforced Concrete 72-Inch	EACH	2.000	2.000
0460	523.0138	Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-III 38x60-Inch	LF	74.000	74.000
0470	523.0538	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 38x60-Inch	EACH	2.000	2.000
0480	601.0553	Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type D	LF	167.000	167.000
0490	606.0200	Riprap Medium	CY	25.000	25.000
0500	606.0300	Riprap Heavy	CY	80.000	80.000
0510	614.0200	Steel Thrie Beam Structure Approach	LF	37.000	37.000
0520	614.0230	Steel Thrie Beam	LF	435.000	435.000
0530	614.0305	Steel Plate Beam Guard Class A	LF	575.000	575.000
0540	614.0345	Steel Plate Beam Guard Short Radius	LF	65.000	65.000
0550	614.0370	Steel Plate Beam Guard Energy Absorbing Terminal	EACH	3.000	3.000
0560	614.0390	Steel Plate Beam Guard Short Radius Terminal	EACH	1.000	1.000
0570	614.2300	MGS Guardrail 3	LF	496.000	496.000
0580	614.2310	MGS Guardrail 3 HS	LF	150.000	150.000
0590	614.2500	MGS Thrie Beam Transition	LF	76.000	76.000
0600	614.2610	MGS Guardrail Terminal EAT	EACH	8.000	8.000
0610	614.8010	Anchor Post Assembly Top Mount	EACH	22.000	22.000
0620	616.0700.S	Fence Safety	LF	3,080.000	3,080.000
0630	618.0100	Maintenance And Repair of Haul Roads (project) 01. 6520-03-60	EACH	1.000	1.000
0640	619.1000	Mobilization	EACH	1.000	1.000
0650	624.0100	Water	MGAL	100.000	100.000
0660	625.0500	Salvaged Topsoil	SY	6,850.000	6,850.000
0670	627.0200	Mulching	SY	6,850.000	6,850.000
0680	628.1504	Silt Fence	LF	19,350.000	19,350.000
0690	628.1520	Silt Fence Maintenance	LF	4,850.000	4,850.000
0700	628.1905	Mobilizations Erosion Control	EACH	4.000	4.000
0710	628.1910	Mobilizations Emergency Erosion Control	EACH	4.000	4.000
0720	628.2004	Erosion Mat Class I Type B	SY	2,975.000	2,975.000
0730	628.7504	Temporary Ditch Checks	LF	1,100.000	1,100.000
0740	628.7555	Culvert Pipe Checks	EACH	190.000	190.000
0750	629.0210	Fertilizer Type B	CWT	5.000	5.000
0760	630.0130	Seeding Mixture No. 30	LB	130.000	130.000
0770	633.5200	Markers Culvert End	EACH	48.000	48.000
0780	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	33.000	33.000
0790	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	103.000	103.000
0800	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	64.000	64.000
0810	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	6.000	6.000
0820	637.2210	Signs Type II Reflective H	SF	475.140	475.140

3

3

DATE 25JUN15		E S T I M A T E O F Q U A N T I T I E S			
LINE				6520-03-60	
NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	QUANTITY
0830	637.2230	Signs Type II Reflective F	SF	1,016.760	1,016.760
0840	638.2602	Removing Signs Type II	EACH	153.000	153.000
0850	638.3000	Removing Small Sign Supports	EACH	158.000	158.000
0860	642.5001	Field Office Type B	EACH	1.000	1.000
0870	643.0100	Traffic Control (project) 01. 6520-03-60	EACH	1.000	1.000
0880	643.0300	Traffic Control Drums	DAY	15,968.000	15,968.000
0890	643.0420	Traffic Control Barricades Type III	DAY	5,612.000	5,612.000
0900	643.0705	Traffic Control Warning Lights Type A	DAY	5,192.000	5,192.000
0910	643.0900	Traffic Control Signs	DAY	8,458.000	8,458.000
0920	643.0920	Traffic Control Covering Signs Type II	EACH	9.000	9.000
0930	643.1050	Traffic Control Signs PCMS	DAY	14.000	14.000
0940	643.2000	Traffic Control Detour (project) 01. 6520-03-60	EACH	1.000	1.000
0950	643.3000	Traffic Control Detour Signs	DAY	14,840.000	14,840.000
0960	646.0156	Pavement Marking Epoxy 18-Inch	LF	12.000	12.000
0970	646.2304.S	Pavement Marking Grooved Wet Reflective Epoxy 4-Inch	LF	172,800.000	172,800.000
0980	647.0606	Pavement Marking Island Nose Epoxy	EACH	1.000	1.000
0990	648.0100	Locating No-Passing Zones	MI	9.800	9.800
1000	649.0100	Temporary Pavement Marking 4-Inch	LF	65,750.000	65,750.000
1010	650.6000	Construction Staking Pipe Culverts	EACH	24.000	24.000
1020	650.8000	Construction Staking Resurfacing Reference	LF	51,870.000	51,870.000
1030	650.9910	Construction Staking Supplemental Control (project) 01. 6520-03-60	LS	1.000	1.000
1040	650.9920	Construction Staking Slope Stakes	LF	11,010.000	11,010.000
1050	690.0150	Sawing Asphalt	LF	2,930.000	2,930.000
1060	SPV.0060	Special 01. Removing Concrete Pole	EACH	1.000	1.000
1070	SPV.0090	Special 01. Private Waterline Exploration	LF	350.000	350.000
1080	SPV.0180	Special 01. Cold In Place Recycling (CIR) Pavement Partial Depth	SY	127,400.000	127,400.000
1090	SPV.0195	Special 01. Asphalt Stabilizing Agent	TON	428.000	428.000

3

CLEARING AND GRUBBING SUMMARY

CATEGORY 0010

STATION	TO	STATION	LOCATION	201.0105 CLEARING STA	201.0120 CLEARING ID	201.0205 GRUBBING STA	201.0220 GRUBBING ID	DESCRIPTION	REMARKS
90+00	-	92+00	STH 187 LT	2	-	2	-	LARGE TREES AND MEDIUM BRUSH	
98+00	-	100+00	STH 187 LT	2	-	2	-	LARGE TREES AND MEDIUM BRUSH	
106+00	-	107+00	STH 187 RT & LT	1	-	1	-	LARGE TREES RT; SMALL TREES LT	
167+00	-	170+00	STH 187 RT	3	-	3	-	LIGHT BRUSH	VISION TRIANGLE SOUTH SIDE OF CTH P
167+50			STH 187 RT	-	35	-	35	VERY LARGE TREE	VISION TRIANGLE SOUTH SIDE OF CTH P
168+00	-	170+00	STH 187 LT	2	-	2	-	LARGE TREES AND MEDIUM BRUSH	
180+00	-	184+00	STH 187 LT	4	-	4	-	LARGE TREES AND MEDIUM BRUSH	
209+00	-	212+00	STH 187 RT & LT	3	-	3	-	SMALL TREES AND LIGHT BRUSH BOTH SIDES	
218+00	-	221+00	STH 187 RT & LT	3	-	3	-	SMALL TREES AND MEDIUM BRUSH BOTH SIDES	
222+00	-	225+00	STH 187 RT & LT	3	-	3	-	LARGE TREES AND LIGHT BRUSH BOTH SIDES	
258+00	-	260+00	STH 187 RT & LT	2	-	2	-	SMALL TREES AND LIGHT/MEDIUM BRUSH BOTH SIDES	
265+00	-	267+00	STH 187 RT & LT	2	-	2	-	SMALL TREES AND MEDIUM BRUSH BOTH SIDES	
272+00	-	274+00	STH 187 RT & LT	2	-	2	-	SMALL TREES AND LIGHT BRUSH BOTH SIDES	
288+00	-	291+00	STH 187 RT & LT	3	-	3	-	SMALL/LARGE TREES AND MEDIUM BRUSH BOTH SIDES	
292+00	-	294+00	STH 187 RT	2	-	2	-	SMALL/LARGE TREES	VISION TRIANGLE NORTH SIDE OF KLINER ROAD
318+00	-	320+00	STH 187 RT & LT	2	-	2	-	SMALL TREES AND MEDIUM BRUSH BOTH SIDES	
332+00	-	334+00	STH 187 RT & LT	2	-	2	-	SMALL/LARGE TREES AND HEAVY BRUSH RT; LIGHT BRUSH LT	
389+00	-	392+00	STH 187 RT & LT	3	-	3	-	SMALL/LARGE TREES AND MEDIUM BRUSH BOTH SIDES	
488+00	-	490+00	STH 187 RT & LT	2	-	2	-	SMALL TREES AND HEAVY BRUSH BOTH SIDES	
506+00	-	510+00	STH 187 RT	4	-	4	-	LARGE/SMALL TREES AND LIGHT/MEDIUM BRUSH	CULVERT PIPE REPLACEMENT RIGHT SIDE AND VISION TRIANGLE SOUTH SIDE OF SCHINKE ROAD
538+00	-	539+00	STH 187 RT	1	-	1	-	LARGE TREES AND HEAVY BRUSH	
539+00	-	543+00	STH 187 RT & LT	4		4		LARGE TREES AND HEAVY BRUSH BOTH SIDES	
543+00	-	544+00	STH 187 LT	1	-	1	-	LARGE TREES AND HEAVY BRUSH	
562+00	-	564+00	STH 187 RT	2	-	2	-	HEAVY BRUSH	VISION TRIANGLE SOUTH SIDE OF CTH F
571+00	-	573+00	STH 187 RT & LT	2	-	2	-	SMALL TREES AND MEDIUM BRUSH BOTH SIDES	
597+00	-	599+00	STH 187 RT & LT	2	-	2	-	LARGE TREES AND HEAVY BRUSH BOTH SIDES	
602+00	-	604+00	STH 187 RT	2	-	2	-	LIGHT BRUSH	VISION TRIANGLE SOUTH OF JOHNSON ROAD
603+00			STH 187 RT	-	35	-	35	VERY LARGE TREE	VISION TRIANGLE SOUTH OF JOHNSON ROAD
603+50			STH 187 RT	-	80	-	80	VERY LARGE TREE	VISION TRIANGLE SOUTH OF JOHNSON ROAD
605+00	-	607+00	STH 187 RT & LT	2	-	2	-	HEAVY BRUSH BOTH SIDES	
PROJECT TOTALS				63	150	63	150		

REMOVING SMALL PIPE CULVERTS

CATEGORY 0010

STATION	LOCATION	203.0100 EACH	PIPE SIZE	PIPE LENGTH	PIPE TYPE
76+50	DRIVEWAY RT	1	18"	21'	CSCP
80+10	DRIVEWAY RT	1	18"	21'	CSCP
81+75	DRIVEWAY RT	1	18"	42'	CSCP
91+10	STH 187	1	36"	74'	CSCP
99+24	STH 187	1	24"	70'	CSCP
104+80	DRIVEWAY RT	1	18"	21'	CSCP
106+76	STH 187	1	24"	70'	CSCP
161+50	DRIVEWAY LT	1	18"	21'	CSCP
169+23	STH 187	1	36"	74'	CSCP
171+90	DRIVEWAY LT	1	18"	30'	CSCP
182+00	STH 187	1	24"	72'	CSCP
210+52	STH 187	1	36"	89'	CSCP
219+64	STH 187	1	24"	70'	CSCP
224+00	STH 187	1	24"	72'	CSCP
258+97	STH 187	1	24"	70'	CSCP
265+91	STH 187	1	24"	70'	CSCP
272+70	STH 187	1	24"	70'	CSCP
289+72	STH 187	1	38" X 57"	74'	CSCSEP
318+60	STH 187	1	36"	74'	CSCP
333+21	STH 187	1	24"	70'	CSCP
333+27	STH 187	1	24"	70'	CSCP
390+51	STH 187	1	36"	74'	CSCP
507+48	STH 187	1	30"	70'	CSCP
508+65	DRIVEWAY RT	1	18"	29'	CSCP
598+27	STH 187	1	24"	72'	CSCP
605+92	STH 187	1	24"	70'	CSCP

TOTAL 26

REMOVING OLD STRUCTURE

CATEGORY 0010

STATION	LOCATION	203.0200 LS	SIZE	TYPE	LENGTH
489+06	STH 187	1	4' X 6'	BOX	68
541+45	STH 187	1	84"	CSCP	87
572+28	STH 187	1	83" X 57"	CSCEP	74

TOTAL 3

REMOVING ASPHALTIC SURFACE BUTT JOINT

CATERGORY 0010

STATION TO STATION	LOCATION	204.0115 SY	REMARKS
61+43	RT & LT	30	BEGIN PROJECT; STH 54
434+95	RT & LT	6	PROJECT 6520-20-00 SOUTH PROJECT LIMITS
478+45	RT & LT	6	PROJECT 6520-20-00 NORTH PROJECT LIMITS
624+64	RT & LT	6	END PROJECT
75+10	RT	7	E MAPLE CT
76+10	LT	6	W MAPLE CT
78+20	RT	6	SOMMERS ST
114+23	RT	7	STONE BRIDGE RD
137+00	LT	6	KYSLEY RD
146+88	LT	6	KYSLEY RD
168+17	RT	8	CTH P
292+90	RT	10	KLINKER RD
339+56	RT	5	NEWLAND RD
411+09	RT	7	DEERVIEW RD
510+02	RT	6	SCHINKE RD
563+78	RT	6	CTH F (RT)
563+78	LT	6	CTH F (LT)
603+96	RT	5	JOHNSON RD

TOTAL 140

REMOVING ASPHALTIC SURFACE MILLING

CATEGORY 0010

STATION	LOCATION	* 204.0120 SY	REMARKS
61+72	STH 187	325	STH 54 IN SCT
75+10	STH 187 RT	37	E MAPLE CT
76+10	STH 187 RT	41	W MAPLE CT
78+20	STH 187 LT	21	SOMMERS ST
114+23	STH 187 RT	58	STONE BRIDGE RD
137+00	STH 187 LT	360	KYSLEY RD
146+88	STH 187 LT	112	KYSLEY RD
168+17	STH 187 RT	443	CTH P
292+90	STH 187 RT	197	KLINKER RD
339+56	STH 187 RT	194	NEWLAND RD
411+09	STH 187 RT	437	DEERVIEW RD
510+02	STH 187 RT	48	SCHINKE RD
563+78	STH 187 RT	131	CTH F (RT)
563+78	STH 187 LT	189	CTH F (LT)
603+96	STH 187 RT	208	JOHNSON RD
TOTAL		2800	

*SEE CONSTRUCTION DETAIL FOR DETAIL ON AREA TO BE MILLED

REMOVING GUARDRAIL

CATEGORY 0010

STATION	TO	STATION	LOCATION	204.0165 LF	REMARKS
113+86	-	118+11	STH 187 NB	448	"STONEBRIDGE " BEAMGUARD
114+45	-	121+76	STH 187 SB	442	"STONEBRIDGE " BEAMGUARD
125+40	-	128+46	STH 187 NB	173	"SHIOC RIVER" BEAMGAURD
124+90	-	127+96	STH 187 SB	173	"SHIOC RIVER" BEAMGAURD
540+17	-	542+40	STH 187 NB	182	"PIPE" BEAMGAURD
539+57	-	542+71	STH 187 SB	182	"PIPE" BEAMGAURD
TOTAL				1600	

EARTHWORK SUMMARY

CATEGORY 0010

				205.0100	****	****	****	****	****	208.0100	
				COMMON EXCAVATION (1)	AVAILABLE MATERIAL (5)	UNEXPANDED FILL	EXPANDED FILL (13)	MASS ORDINATE +/- (14)	WASTE	BORROW	
				CUT (2)							
STATION	TO	STATION	LOCATION	CY	CY	CY	CY	CY	CY	CY	REMARKS
20+60	-	22+34	STH 187	41	41	15	19	22	22	-	BEAMGAURD-STONEBRIDGE RD
90+50	-	91+50	STH 187	46	46	51	67	-21	0	-	CROSSPIPE
98+50	-	100+00	STH 187	69	69	111	144	-74	0	-	CROSSPIPE
106+00	-	107+00	STH 187	40	40	43	56	-17	0	-	CROSSPIPE
112+01	-	123+52	STH 187	1202	1202	489	636	565	565	-	BEAMGAURD
123+52	-	129+94	STH 187	712	712	254	330	382	382	-	BEAMGAURD
168+50	-	170+00	STH 187	63	63	102	132	-69	0	-	CROSSPIPE
180+50	-	184+00	STH 187	225	225	90	117	108	108	-	CROSSPIPE
209+50	-	211+50	STH 187	53	53	135	175	-122	0	-	CROSSPIPE
219+00	-	220+50	STH 187	37	37	75	97	-60	0	-	CROSSPIPE
223+00	-	224+50	STH 187	226	226	11	15	211	211	-	CROSSPIPE
258+00	-	259+50	STH 187	96	96	23	30	65	65	-	CROSSPIPE
265+00	-	266+50	STH 187	96	96	7	9	87	87	-	CROSSPIPE
272+00	-	273+50	STH 187	89	89	34	44	45	45	-	CROSSPIPE
288+50	-	290+50	STH 187	69	69	76	99	-31	0	-	CROSSPIPE
318+00	-	319+50	STH 187	28	28	50	65	-37	0	-	CROSSPIPE
332+50	-	334+00	STH 187	27	27	46	60	-33	0	-	CROSSPIPE
389+50	-	391+50	STH 187	153	153	52	67	85	85	-	CROSSPIPE
488+00	-	490+00	STH 187	99	99	78	101	-2	0	-	CROSSPIPE
506+50	-	508+50	STH 187	97	97	28	36	61	61	-	CROSSPIPE
537+48	-	544+70	STH 187	1003	1003	1577	2050	-1047	0	-	BEAMGAURD/CROSSPIPE
571+00	-	573+00	STH 187	334	334	279	363	-29	0	-	CROSSPIPE
597+00	-	599+00	STH 187	126	126	125	163	-37	0	-	CROSSPIPE
605+00	-	606+50	STH 187	97	97	99	128	-31	0	0	CROSSPIPE
SUBTOTAL				5026	5026	3850	5004	21	1630	0	
PROJECT TOTALS				5026	5026	3850	5004	21	1630	0	

**** FOR INFORMATION ONLY

NOTES:

- 1) COMMON EXCAVATION IS THE SUM OF THE CUT AND EBS EXCAVATION COLUMNS. ITEM 205.0100
- 2) SALVAGED/UNUSABLE PAVEMENT MATERIAL IS INCLUDED IN CUT
- 5) AVAILABLE MATERIAL = CUT - SALVAGED/UNUSABLE PAVEMENT MATERIAL
- 13) EXPANDED FILL FACTOR = 1.30
- 14) THE MASS ORDINATE + OR - QNT CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION. SEE SECTION 9 FOR DETAILED CALCULATIONS

BASE AGGREGATE SUMMARY

CATEGORY 0010

				305.0110 BASE AGGREGATE DENSE 3/4"	305.0120 BASE AGGREGATE DENSE 1 1/4"	624.0100 WATER	
STATION	TO	STATION	LOCATION	TON	TON	MGAL	REMARKS
61+43.46	-	434+95	STH 187 SHOULDER RT	1729	385	-	
61+43.46	-	434+95	STH 187 SHOULDER LT	1729	320	-	
478+45	-	624+63.97	STH 187 SHOULDER RT	677	-	-	
478+45	-	624+63.97	STH 187 SHOULDER LT	677	-	-	
			DRIVEWAYS	2187	799	-	SEE DRIVEWAY SUMMARY FOR DETAILS
			CULVERT REPLACEMENTS	-	668	-	SEE CULVERT RAPLACEMENT SUMMARY FOR DETAILS
			WEDGES	663	-	-	EXTRA SHOULDER GRAVEL FOR WEDGES
SUBTOTALS				7662	2172	-	
UNDISTRIBUTED				1888	33	100	
PROJECT TOTALS				9550	2205	100	

SHAPING SHOULDERS

CATEGORY 0010

STATION	TO	STATION	LOCATION	305.0500 STA
61+44	-	434+95	STH 187	747
478+45	-	624+64	STH 187	292
			TOTAL	1039

DRIVEWAY SUMMARY

CATEGORY 0010

APPROXIMATE STATION	LOCATION	204.0110 REMOVING ASPHALTIC SURFACE SY	305.0110 BASE AGGREGATE DENSE 3/4" TON	305.0120 BASE AGGREGATE DENSE 1 1/4" TON	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON	690.0150 SAWING ASPHALT LF	REMARKS
63+65	STH 187 RT	19.7	-	6.6	3.3	13	N5760
65+35	STH 187 RT	22.3	-	7.4	3.7	14	N5770
66+00	STH 187 RT	21.8	-	7.3	3.6	14	N5776
67+10	STH 187 RT	21.5	-	7.2	3.6	14	N5784
67+15	STH 187 LT	32.7	-	10.9	5.4	21	PARK ENTRANCE
68+00	STH 187 LT	24.9	-	8.3	4.1	16	N5793
68+50	STH 187 RT	71.3	-	23.8	11.8	46	N5794
69+30	STH 187 LT	-	12.3	-	-	-	WOODED HOUSE
70+05	STH 187 RT	22.8	-	7.6	3.8	15	N5799
70+50	STH 187 LT	29.6	-	9.9	4.9	19	N5811
70+90	STH 187 RT	32.9	-	11.0	5.4	21	N5814
71+65	STH 187 LT	-	14.9	-	-	-	N5831 GARAGE
71+85	STH 187 RT	20.5	-	6.8	3.4	13	N5822
72+40	STH 187 RT	31.5	-	10.5	5.2	20	N5828
72+85	STH 187 LT	42.0	-	14.0	6.9	27	N5831
74+05	STH 187 LT	26.4	-	8.8	4.4	17	N5839
74+40	STH 187 RT	28.4	-	9.5	4.7	18	N5840
76+50	STH 187 RT	24.6	-	8.2	4.1	16	N5856
77+10	STH 187 RT	25.5	-	8.5	4.2	16	N5862
77+20	STH 187 LT	23.3	-	7.8	3.9	15	N5869 GARAGE
78+15	STH 187 LT	17.1	-	5.7	2.8	11	N5869
78+55	STH 187 LT	26.4	-	8.8	4.4	17	N5875/N5877
79+05	STH 187 LT	20.2	-	6.7	3.3	13	N5881
80+10	STH 187 RT	19.4	-	6.5	3.2	13	N5890
80+60	STH 187 LT	32.7	-	10.9	5.4	21	N5891
80+80	STH 187 RT	14.6	-	4.9	2.4	9	N5890 (2nd DRWY)
81+15	STH 187 LT	56.0	-	18.7	9.2	36	N5897
81+75	STH 187 RT	24.1	-	8.0	4.0	16	N5898
82+40	STH 187 RT	-	9.1	-	-	-	AIRPORT DRWY
88+90	STH 187 RT	-	11.7	-	-	-	FARM ENTRANCE (N5961)
89+45	STH 187 RT	-	13.2	-	-	-	FARM ENTRANCE (N5961)
89+50	STH 187 LT	56.0	-	18.7	9.2	36	N5961
95+90	STH 187 LT	-	13.0	-	-	-	WOODS ENTRANCE
102+25	STH 187 LT	29.6	-	9.9	4.9	19	N6063
104+75	STH 187 LT	35.8	-	11.9	5.9	23	N6077 GARAGE ENTRANCE
104+80	STH 187 RT	-	11.0	-	-	-	N6080
105+35	STH 187 LT	28.0	-	9.3	4.6	18	N6077 GARAGE ENTRANCE
107+45	STH 187 LT	-	9.7	-	-	-	N6101
110+50	STH 187 RT	91.3	-	30.4	15.1	31	N6126
112+00	STH 187 RT	49.1	-	16.4	8.1	17	N6140
112+10	STH 187 LT	-	25.8	-	-	-	N6141
119+65	STH 187 LT	-	34.4	-	-	-	FIELD ENTRANCE
124+45	STH 187 LT	-	21.5	-	-	-	FIELD ENTRANCE

SUBTOTALS1022177 **341 **169615 **CONTINUED ON NEXT PAGE...

** FOR INFORMATIONAL PURPOSES ONLY, QUANTITIES SHOWN ELSEWHERE

DRIVEWAY SUMMARY CONTINUED

CATEGORY 0010

APPROXIMATE STATION	LOCATION	204.0110 REMOVING ASPHALTIC SURFACE SY	305.0110 BASE AGGREGATE DENSE 3/4" TON	305.0120 BASE AGGREGATE DENSE 1 1/4" TON	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON	690.0150 SAWING ASPHALT LF	REMARKS
124+50	STH 187 RT	-	51.7	-	-	-	FIELD ENTRANCE
131+00	STH 187 RT	-	36.2	-	-	-	FIELD ENTRANCE
140+80	STH 187 RT	-	36.2	-	-	-	FIELD ENTRANCE
140+80	STH 187 LT	-	47.2	-	-	-	YARD ENTRANCE
148+30	STH 187 LT	-	47.2	-	-	-	N6397
149+25	STH 187 LT	-	39.6	-	-	-	N6397 YARD ENTRANCE
151+10	STH 187 LT	-	16.2	-	-	-	N6421
152+15	STH 187 LT	-	13.9	-	-	-	N6429
154+00	STH 187 LT	36.1	-	12.0	6.0	13	N6443
155+00	STH 187 LT	63.6	-	21.2	10.5	26	N6455
156+35	STH 187 LT	24.4	-	8.1	4.0	10	N6461
157+50	STH 187 LT	29.3	-	9.8	4.8	12	N6471
159+00	STH 187 LT	34.2	-	11.4	5.6	14	N6483
159+90	STH 187 LT	-	14.3	-	-	-	N6495/N6491
160+10	STH 187 RT	-	22.4	-	-	-	N6504
161+00	STH 187 LT	-	14.3	-	-	-	N6499
161+50	STH 187 LT	34.2	-	11.4	5.6	14	N6501
162+20	STH 187 LT	34.2	-	11.4	5.6	14	N6507
163+15	STH 187 LT	-	15.3	-	-	-	N6513
165+15	STH 187 LT	-	12.2	-	-	-	N6527
165+50	STH 187 LT	-	10.2	-	-	-	N6535/N6531
167+25	STH 187 LT	-	11.2	-	-	-	N6543
167+45	STH 187 RT	-	14.9	-	-	-	N6544
170+20	STH 187 LT	-	13.2	-	-	-	N6561/N6557
171+90	STH 187 LT	41.6	-	13.9	6.9	17	N6579
172+45	STH 187 LT	-	13.2	-	-	-	N6583
173+40	STH 187 LT	-	12.2	-	-	-	N6593/N6591
174+25	STH 187 LT	-	15.3	-	-	-	N6603/N6599/N6595/N6597
181+45	STH 187 LT	-	11.2	-	-	-	N6657/N6653
184+65	STH 187 LT	-	30.6	-	-	-	N6677
187+40	STH 187 RT	29.7	-	9.9	4.9	12	N6680
189+20	STH 187 LT	-	13.2	-	-	-	N6711
192+50	STH 187 LT	-	21.4	-	-	-	N6729
193+05	STH 187 LT	61.1	-	20.4	10.1	25	N6741
193+70	STH 187 RT	-	17.3	-	-	-	FIELD ENTRANCE
193+70	STH 187 LT	-	16.3	-	-	-	N6747
194+60	STH 187 LT	-	23.4	-	-	-	N6753
196+10	STH 187 LT	-	19.4	-	-	-	N6769
199+05	STH 187 LT	-	14.3	-	-	-	N6787
199+25	STH 187 LT	-	9.2	-	-	-	UNMARKED DRIVEWAY
200+30	STH 187 RT	-	23.4	-	-	-	FIELD ENTRANCE
201+30	STH 187 LT	-	12.2	-	-	-	N6791
202+00	STH 187 RT	-	16.3	-	-	-	N6814
SUBTOTALS		389	685 **	130 **	64	157 **	CONTINUED ON NEXT PAGE...

** FOR INFORMATIONAL PURPOSES ONLY, QUANTITIES SHOWN ELSEWHERE

DRIVEWAY SUMMARY CONTINUED

CATEGORY 0010							
APPROXIMATE STATION	LOCATION	204.0110 REMOVING ASPHALTIC SURFACE SY	305.0110 BASE AGGREGATE DENSE 3/4" TON	305.0120 BASE AGGREGATE DENSE 1 1/4" TON	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON	690.0150 SAWING ASPHALT LF	REMARKS
205+00	STH 187 RT	-	15.3	-	-	-	N6826
205+20	STH 187 RT	-	14.1	-	-	-	N6834
208+00	STH 187 RT	-	18.3	-	-	-	FIELD ENTRANCE
212+50	STH 187 RT	-	24.4	-	-	-	FIELD ENTRANCE
221+40	STH 187 RT	-	7.1	-	-	-	N6956
224+55	STH 187 LT	-	7.8	-	-	-	N6979
225+75	STH 187 LT	-	12.3	-	-	-	YARD ENTRANCE
227+70	STH 187 LT	39.0	-	13.0	6.4	25	N7003
238+15	STH 187 LT	-	9.1	-	-	-	N7083
240+40	STH 187 LT	-	18.1	-	-	-	N7099
241+55	STH 187 LT	-	18.3	-	-	-	N7105
243+30	STH 187 LT	30.0	-	10.0	5.0	15	N7111
244+00	STH 187 RT	-	13.2	-	-	-	FIELD ENTRANCE
244+60	STH 187 LT	-	15.8	-	-	-	N7111 (PARKING SPOT)
247+20	STH 187 LT	-	15.6	-	-	-	WILDLIFE PARKING
251+80	STH 187 LT	-	16.2	-	-	-	FIELD ENTRANCE
253+50	STH 187 RT	-	8.8	-	-	-	N7176
271+35	STH 187 RT	-	9.1	-	-	-	N7288
283+80	STH 187 LT	-	16.9	-	-	-	FIELD ENTRANCE
305+10	STH 187 RT	24.0	-	7.9	3.9	13	N7486
305+10	STH 187 LT	-	11.7	-	-	-	N7487
306+70	STH 187 RT	-	11.5	-	-	-	N7497
307+00	STH 187 LT	-	20.0	-	-	-	WOODS ENTRANCE
323+00	STH 187 LT	30.0	-	9.9	4.9	19	N7599
329+00	STH 187 RT	-	11.7	-	-	-	FIELD ENTRANCE
339+50	STH 187 LT	-	8.4	-	-	-	N7693/N7698/N7697/N7699
339+95	STH 187 LT	-	17.5	-	-	-	FIELD ENTRANCE
340+60	STH 187 RT	-	13.0	-	-	-	N7706
349+10	STH 187 RT	-	17.5	-	-	-	N7758
350+60	STH 187 RT	-	11.7	-	-	-	N7782
351+00	STH 187 LT	-	10.8	-	-	-	N7781
352+40	STH 187 RT	-	9.2	-	-	-	N7790
355+00	STH 187 RT	-	11.7	-	-	-	N7830
355+50	STH 187 LT	-	14.2	-	-	-	N7813
357+90	STH 187 LT	-	7.5	-	-	-	N7821
358+10	STH 187 LT	-	13.3	-	-	-	N7829
358+20	STH 187 RT	-	15.0	-	-	-	N7836
360+62	STH 187 LT	-	8.3	-	-	-	FIELD ENTRANCE
360+70	STH 187 RT	-	10.8	-	-	-	N7850
364+40	STH 187 LT	-	14.3	-	-	-	N7875
371+05	STH 187 RT	-	9.7	-	-	-	N7934
375+15	STH 187 RT	-	7.1	-	-	-	N7950
376+50	STH 187 RT	-	6.2	-	-	-	N7958
SUBTOTALS		123	501 **	41 **	20	72 **	CONTINUED ON NEXT PAGE...

** FOR INFORMATIONAL PURPOSES ONLY, QUANTITIES SHOWN ELSEWHERE

DRIVEWAY SUMMARY CONTINUED

CATEGORY 0010

APPROXIMATE STATION	LOCATION	204.0110 REMOVING ASPHALTIC SURFACE SY	305.0110 BASE AGGREGATE DENSE 3/4" TON	305.0120 BASE AGGREGATE DENSE 1 1/4" TON	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON	690.0150 SAWING ASPHALT LF	REMARKS
377+40	STH 187 LT	-	19.2	-	-	-	N7967/N7964
377+85	STH 187 RT	19.0	-	6.2	3.1	12	N7962/N7968
379+75	STH 187 RT	-	7.5	-	-	-	N7986/N7982
380+75	STH 187 RT	-	6.8	-	-	-	N7990
383+10	STH 187 RT	-	9.1	-	-	-	N8006
383+25	STH 187 LT	40.4	-	13.5	6.7	26	TRAPPERS LANE
383+50	STH 187 RT	-	9.1	-	-	-	N8010
384+90	STH 187 LT	-	11.7	-	-	-	TRAILER PARK
385+30	STH 187 LT	-	6.5	-	-	-	POWER ACCESS
386+80	STH 187 RT	-	7.1	-	-	-	LAKE ENTRANCE
389+10	STH 187 LT	61.0	-	20.2	10.0	39	N8049
392+70	STH 187 LT	26.4	-	8.8	4.4	17	N8073
393+15	STH 187 LT	64.0	-	21.3	10.5	41	N8077
394+65	STH 187 LT	62.0	-	20.7	10.2	31	N8089
396+15	STH 187 LT	66.0	-	22.0	10.9	33	N8101
397+00	STH 187 LT	-	8.3	-	-	-	N8107
399+00	STH 187 RT	-	6.5	-	-	-	CEMETARY ENTRANCE
399+05	STH 187 LT	-	23.3	-	-	-	N8115
400+75	STH 187 LT	-	7.1	-	-	-	N8145
403+00	STH 187 RT	29.0	-	9.6	4.7	14	N8160
406+30	STH 187 RT	-	11.1	-	-	-	N8172
407+10	STH 187 LT	-	9.7	-	-	-	N8175
409+35	STH 187 RT	-	11.4	-	-	-	N8196
413+55	STH 187 LT	-	7.4	-	-	-	N8225 GARAGE
414+55	STH 187 LT	31.0	-	10.2	5.1	20	N8225
415+15	STH 187 LT	-	8.5	-	-	-	GARAGE ENTRANCE
416+05	STH 187 RT	-	7.5	-	-	-	N8240
420+25	STH 187 RT	-	11.3	-	-	-	N8280
422+45	STH 187 RT	-	13.2	-	-	-	GARAGE ENTRANCE
423+30	STH 187 RT	40.1	-	13.4	6.6	19	N8296
425+85	STH 187 LT	-	7.4	-	-	-	WOLF WATER WOODS
429+35	STH 187 RT	-	10.4	-	-	-	FIELD ENTRANCE
432+85	STH 187 LT	-	7.4	-	-	-	N8365
480+88	STH 187 RT	-	8.4	-	-	-	N8680
482+14	STH 187 RT	-	5.8	-	-	-	N8680 (2ND DRWY)
483+40	STH 187 RT	-	9.7	-	-	-	N8704 OLD TOWN HALL
483+90	STH 187 RT	-	13.0	-	-	-	N8704 OLD TOWN HALL
493+30	STH 187 RT	-	9.1	-	-	-	N8774
494+75	STH 187 LT	24.2	-	8.1	4.0	11	N8789
499+00	STH 187 RT	-	7.1	-	-	-	N8820
500+20	STH 187 LT	-	14.4	-	-	-	FIELD ENTRANCE
501+50	STH 187 RT	-	13.6	-	-	-	N8834
505+70	STH 187 RT	25.5	-	8.5	4.2	16	N8870
505+70	STH 187 LT	-	11.5	-	-	-	N8871

SUBTOTALS489320 **162 **80279 **CONTINUED ON NEXT PAGE...

** FOR INFORMATIONAL PURPOSES ONLY, QUANTITIES SHOWN ELSEWHERE

DRIVEWAY SUMMARY CONTINUED

CATEGORY 0010

APPROXIMATE STATION	LOCATION	204.0110 REMOVING ASPHALTIC SURFACE SY	305.0110 BASE AGGREGATE DENSE 3/4" TON	305.0120 BASE AGGREGATE DENSE 1 1/4" TON	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON	690.0150 SAWING ASPHALT LF	REMARKS
506+15	STH 187 RT	23.0	-	7.7	3.8	15	N8870 (2ND DRWY)
508+65	STH 187 RT	-	13.5	-	-	-	N8892
509+25	STH 187 LT	35.0	-	11.7	5.8	13	N8895
512+15	STH 187 LT	-	8.5	-	-	-	FIELD ENTRANCE
518+80	STH 187 LT	-	12.8	-	-	-	FIELD ENTRANCE
523+05	STH 187 RT	-	12.8	-	-	-	N9023 FARM ACCESS
526+15	STH 187 LT	-	5.7	-	-	-	N9019
526+80	STH 187 RT	-	17.6	-	-	-	N9023 FARM ACCESS
526+80	STH 187 LT	-	23.4	-	-	-	N9023
528+00	STH 187 RT	-	101.0	-	-	-	N9023 FARM ACCESS
528+40	STH 187 LT	-	8.5	-	-	-	FIELD ENTRANCE
529+05	STH 187 RT	-	10.4	-	-	-	N9023 FARM ACCESS
536+25	STH 187 LT	26.0	-	8.5	4.2	16	N9095
538+50	STH 187 LT	-	7.2	-	-	-	N9111
542+50	STH 187 LT	-	38.0	-	-	-	N9145 GARAGE
543+58	STH 187 RT	-	15.0	-	-	-	N9144
543+60	STH 187 LT	-	5.7	-	-	-	N9145
545+80	STH 187 RT	-	12.1	-	-	-	N9144 FARM ACCESS
550+60	STH 187 RT	-	10.9	-	-	-	FIELD ENTRANCE
552+10	STH 187 LT	-	12.3	-	-	-	N9213
553+00	STH 187 LT	-	12.3	-	-	-	FIELD ENTRANCE
555+75	STH 187 RT	30.1	-	10.0	5.0	16	N9240
563+40	STH 187 LT	44.4	-	14.8	7.3	20	N9297
564+10	STH 187 RT	133.3	-	44.4	22.0	80	N9302 (GAS STATION)
565+70	STH 187 RT	41.0	-	13.6	6.7	27	N9316 GARAGE
566+00	STH 187 RT	19.0	-	6.3	3.1	14	N9316 GARAGE
567+90	STH 187 RT	-	10.4	-	-	-	FIELD ENTRANCE
569+70	STH 187 LT	-	6.4	-	-	-	N9343
570+60	STH 187 LT	-	6.4	-	-	-	GARAGE ENTRANCE
573+85	STH 187 RT	-	10.6	-	-	-	N9374
576+25	STH 187 RT	-	13.8	-	-	-	FIELD ENTRANCE
579+95	STH 187 RT	-	10.6	-	-	-	N9424
580+90	STH 187 RT	-	15.9	-	-	-	FARM ENTRANCE
580+90	STH 187 LT	-	8.1	-	-	-	N9427
583+80	STH 187 RT	-	9.3	-	-	-	FIELD ENTRANCE
584+00	STH 187 LT	-	10.4	-	-	-	FIELD ENTRANCE
588+20	STH 187 RT	-	8.1	-	-	-	N9490
591+70	STH 187 RT	-	10.4	-	-	-	NEW DRIVEWAY
596+15	STH 187 RT	-	7.4	-	-	-	N9548
597+25	STH 187 LT	-	9.6	-	-	-	N9555
603+60	STH 187 LT	-	7.9	-	-	-	N9599
607+00	STH 187 RT	-	9.6	-	-	-	FIELD ENTRANCE
613+30	STH 187 LT	-	8.5	-	-	-	FIELD ENTRANCE
617+80	STH 187 RT	-	12.8	-	-	-	N9668
620+50	STH 187 LT	25.5	-	8.5	4.2	18	N9685
SUBTOTALS		377	504 **	126 **	62	220 **	
PROJECT TOTALS		2400	2187 **	799 **	395	1343 **	

** FOR INFORMATIONAL PURPOSES ONLY, QUANTITIES SHOWN ELSEWHERE

HMA SUMMARY

CATEGORY 0010

STATION TO STATION			LOCATION	455.0105 ASPHALTIC MATERIAL PG58-28 TON	455.0605 TACK COAT GAL	460.1100 HMA PAVEMENT TYPE E-0.3 TON	REMARKS
61+72	-	434+95	STH 187	800.0	13225.0	14497.0	INCLUDES TWO LAYERS OF TACK COAT AND SAFETY EDGE AND LT SHOULDER @ 61+72-81+00
478+45	-	624+64	STH 187	314.0	5155.0	5710.0	INCLUDES TWO LAYERS OF TACK COAT AND SAFETY EDGE
63+06.21	-	64+71.41	STH 187	0.5	-	9.8	WEDGING LAYER; PI = 63+88.83
71+73.09	-	72+03.95	STH 187	0.1	-	1.8	WEDGING LAYER; PI = 71+88.52
127+03.09	-	133+22.21	STH 187	2.6	-	47.6	WEDGING LAYER; PI = 130+12.91
145+52.54	-	153+99.92	STH 187	4.1	-	75.2	WEDGING LAYER; PI = 149+79.34
197+98.99	-	204+74.28	STH 187	1.1	-	20.0	WEDGING LAYER; PI = 201+36.87
211+29.28	-	215+36.38	STH 187	0.9	-	16.9	WEDGING LAYER; PI = 213+32.86
217+68.15	-	220+48.53	STH 187	1.4	-	25.2	WEDGING LAYER; PI = 219+08.50
233+66.92	-	236+22.26	STH 187	1.3	-	22.9	WEDGING LAYER; PI = 234+95.63
237+94.29	-	240+24.82	STH 187	1.5	-	26.6	WEDGING LAYER; PI = 239+12.82
250+73.48	-	257+26.91	STH 187	3.2	-	58.0	WEDGING LAYER; PI = 254+11.91
263+46.22	-	266+67.59	STH 187	1.6	-	28.6	WEDGING LAYER; PI = 265+15.82
269+06.68	-	271+00.07	STH 187	1.0	-	17.3	WEDGING LAYER; PI = 270+03.40
271+19.07	-	276+37.66	STH 187	2.4	-	43.0	WEDGING LAYER; PI = 273+78.54
277+54.73	-	280+04.56	STH 187	1.2	-	22.2	WEDGING LAYER; PI = 278+80.85
292+48.50	-	297+28.48	STH 187	2.5	-	42.9	WEDGING LAYER; PI = 294+88.81
298+43.46	-	301+53.73	STH 187	1.0	-	18.4	WEDGING LAYER; PI = 300+07.09
304+02.24	-	306+99.58	STH 187	1.5	-	26.7	WEDGING LAYER; PI = 305+51.04
321+72.03	-	325+08.17	STH 187	0.9	-	15.9	WEDGING LAYER; PI = 323+41.85
328+36.00	-	331+56.98	STH 187	1.0	-	19.0	WEDGING LAYER; PI = 330+02.82
333+21.05	-	336+19.04	STH 187	1.3	-	22.9	WEDGING LAYER; PI = 334+70.83
338+04.66	-	341+26.62	STH 187	1.6	-	28.9	WEDGING LAYER; PI = 339+67.65
342+61.21	-	345+76.34	STH 187	1.1	-	20.5	WEDGING LAYER; PI = 344+20.48
350+33.27	-	353+04.68	STH 187	1.3	-	24.4	WEDGING LAYER; PI = 351+69.57
359+51.95	-	362+24.61	STH 187	1.3	-	24.2	WEDGING LAYER; PI = 360+88.31
366+29.27	-	368+92.86	STH 187	1.1	-	20.3	WEDGING LAYER; PI = 367+64.52
374+29.50	-	375+92.20	STH 187	0.8	-	14.4	WEDGING LAYER; PI = 375+11.05
380+96.52	-	383+06.64	STH 187	0.7	-	12.4	WEDGING LAYER; PI = 382+02.16
384+45.79	-	386+01.09	STH 187	0.8	-	13.9	WEDGING LAYER; PI = 385+23.71
389+51.38	-	392+16.34	STH 187	0.8	-	14.1	WEDGING LAYER; PI = 390+92.58
398+84.05	-	401+08.20	STH 187	1.1	-	20.1	WEDGING LAYER; PI = 399+96.32
402+24.00	-	404+16.01	STH 187	0.9	-	17.2	WEDGING LAYER; PI = 403+20.15
406+63.54	-	407+63.01	STH 187	0.5	-	8.9	WEDGING LAYER; PI = 407+13.28
408+94.36	-	411+38.91	STH 187	0.8	-	14.5	WEDGING LAYER; PI = 410+17.74
422+43.37	-	428+83.53	STH 187	1.9	-	34.1	WEDGING LAYER; PI = 425+80.83
431+61.00	-	436+66.40	STH 187	1.6	-	29.9	WEDGING LAYER; PI = 434+14.87
495+44.79	-	497+64.11	STH 187	0.2	-	3.9	WEDGING LAYER; PI = 496+55.55
497+82.72	-	499+81.83	STH 187	1.0	-	17.8	WEDGING LAYER; PI = 498+82.31
512+83.10	-	516+81.16	STH 187	0.5	-	9.4	WEDGING LAYER; PI = 514+86.76
516+90.48	-	522+78.16	STH 187	0.2	-	3.5	WEDGING LAYER; PI = 519+84.58
539+11.16	-	542+66.33	STH 187	1.5	-	27.3	WEDGING LAYER; PI = 540+90.82
571+49.28	-	574+14.73	STH 187	1.1	-	18.9	WEDGING LAYER; PI = 572+82.06
587+63.70	-	589+40.98	STH 187	0.4	-	7.3	WEDGING LAYER; PI = 588+52.34
SUBTOTALS				1166	18380	21100	CONTINUED ON NEXT PAGE...

HMA SUMMARY CONTINUED

CATEGORY 0010

STATION TO STATION			455.0105 ASPHALTIC MATERIAL PG58-28	455.0605 TACK COAT	460.1100 HMA PAVEMENT TYPE E-0.3	REMARKS
LOCATION			TON	GAL	TON	
596+50.70	-	598+80.16	0.4	-	8.1	WEDGING LAYER; PI = 597+65.45
604+45.18	-	607+37.56	0.6	-	10.4	WEDGING LAYER; PI = 605+91.76
622+50.93	-	624+63.97	0.8	-	15.1	WEDGING LAYER; PI = 623+63.21
237+94.29	-	240+24.82	0.1	0.2	1.0	SHOULDER PAVING AT INSIDE CURVES; PI = 239+12.82
250+73.48	-	257+26.91	0.1	0.6	2.2	SHOULDER PAVING AT INSIDE CURVES; PI = 254+11.91
263+46.22	-	266+67.59	0.1	0.3	1.1	SHOULDER PAVING AT INSIDE CURVES; PI = 265+15.82
269+06.68	-	271+00.07	0.0	0.2	0.7	SHOULDER PAVING AT INSIDE CURVES; PI = 270+03.40
298+43.46	-	301+53.73	0.1	0.3	1.1	SHOULDER PAVING AT INSIDE CURVES; PI = 300+07.09
321+72.03	-	325+08.17	0.1	0.3	1.2	SHOULDER PAVING AT INSIDE CURVES; PI = 323+41.85
328+36.00	-	331+56.98	0.1	0.3	1.1	SHOULDER PAVING AT INSIDE CURVES; PI = 330+02.82
333+21.05	-	336+19.04	0.1	0.3	1.0	SHOULDER PAVING AT INSIDE CURVES; PI = 334+70.83
338+04.66	-	341+26.62	0.1	0.3	1.1	SHOULDER PAVING AT INSIDE CURVES; PI = 339+67.65
342+61.21	-	345+76.34	0.1	0.3	1.1	SHOULDER PAVING AT INSIDE CURVES; PI = 344+20.48
350+33.27	-	353+04.68	0.1	0.3	0.9	SHOULDER PAVING AT INSIDE CURVES; PI = 351+69.57
366+29.27	-	368+92.86	0.0	0.3	0.9	SHOULDER PAVING AT INSIDE CURVES; PI = 367+64.52
380+96.52	-	383+06.64	0.0	0.2	0.7	SHOULDER PAVING AT INSIDE CURVES; PI = 382+02.16
384+45.79	-	386+01.09	0.0	0.2	0.5	SHOULDER PAVING AT INSIDE CURVES; PI = 385+23.71
389+51.38	-	392+16.34	0.1	0.3	0.9	SHOULDER PAVING AT INSIDE CURVES; PI = 390+92.58
398+84.05	-	401+08.20	0.0	0.2	0.8	SHOULDER PAVING AT INSIDE CURVES; PI = 399+96.32
402+24.00	-	404+16.01	0.0	0.2	0.7	SHOULDER PAVING AT INSIDE CURVES; PI = 403+20.15
422+43.37	-	428+83.53	0.1	0.6	2.2	SHOULDER PAVING AT INSIDE CURVES; PI = 425+80.83
495+44.79	-	497+64.11	0.0	0.2	0.8	SHOULDER PAVING AT INSIDE CURVES; PI = 496+55.55
512+83.10	-	516+81.16	0.1	0.4	1.4	SHOULDER PAVING AT INSIDE CURVES; PI = 514+86.76
539+11.16	-	542+66.33	0.1	0.4	1.2	SHOULDER PAVING AT INSIDE CURVES; PI = 540+90.82
604+45.18	-	607+37.56	0.1	0.3	1.0	SHOULDER PAVING AT INSIDE CURVES; PI = 605+91.76
622+50.93	-	624+63.97	0.0	0.2	0.7	SHOULDER PAVING AT INSIDE CURVES; PI = 623+63.21
113+32	-	118+75	5.6	37.3	102.5	SHOULDER PAVING AT BEAMGUARD SHOULDERS
115+12	-	122+42	5.2	4.4	94.5	SHOULDER PAVING AT BEAMGUARD SHOULDERS
124+50	-	128+37	1.9	12.8	35.2	SHOULDER PAVING AT BEAMGUARD SHOULDERS
125+00	-	128+86	1.9	12.8	35.1	SHOULDER PAVING AT BEAMGUARD SHOULDERS
538+85	-	542+15	5.2	34.5	94.9	SHOULDER PAVING AT BEAMGUARD SHOULDERS
539+38	-	542+25	3.7	23.9	65.9	SHOULDER PAVING AT BEAMGUARD SHOULDERS
61+43		STH 187	3.1	22.8	48.0	STH 54
75+10		STH 187, RT	0.4	2.6	5.5	EAST MAPLE COURT
76+10		STH 187, RT	0.4	2.9	6.0	SOMMERS STREET
78+20		STH 187, LT	0.2	1.5	3.1	WEST MAPLE COURT
114+23		STH 187, RT	0.6	4.1	8.6	STONEBRIDGE ROAD
137+00		STH 187, LT	3.5	25.2	53.1	KYSLEY ROAD (SOUTH)
146+88		STH 187, LT	1.1	7.8	16.5	KYSLEY ROAD (NORTH)
168+17		STH 187, RT	4.3	31.0	65.4	CTH P
292+90		STH 187, RT	1.9	13.8	29.0	KLINKER ROAD
339+56		STH 187, RT	1.9	13.6	28.6	NEWLAND ROAD
411+09		STH 187, RT	4.2	30.6	64.5	DEERVIEW ROAD
510+02		STH 187, RT	0.5	3.3	7.0	SCHINKE ROAD
563+78		STH 187, RT	1.3	9.2	19.3	CTH F
563+78		STH 187, LT	1.8	13.3	28.0	CTH F
603+96		STH 187, RT	2.0	14.5	30.6	JOHNSON ROAD
SUBTOTALS			54	320	899	
PROJECT TOTALS			1220	18700	22000	

REHEATING HMA PAVEMENT LONGITUDINAL JOINTS

CATEGORY 0010					
STATION	TO	STATION	LOCATION	460.4110.S LF	REMARKS
61+44	-	434+95	STH 187	37351	UPPER LAYER
478+45	-	624+64	STH 187	14619	UPPER LAYER
TOTAL				51970	

ASPHALTIC FLUMES

CATEGORY 0010		
STATION	LOCATION	465.0315 SY
542+17	STH 187 RT	12
TOTAL		12

CROSS PIPE REPLACEMENT SUMMARY

CATEGORY 0010						
			**** GRANULAR BACKFILL	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH	390.0201 BASE PATHCING ASPHALTIC	690.0150 SAWING ASPHALT
STATION	TO	STATION	LOCATION	CY	TON	TON
91+10			STH 187	18.6	22.4	8.1
99+24			STH 187	11.9	32.9	11.8
106+76			STH 187	11.9	20.9	7.5
169+23			STH 187	18.6	34.4	12.4
182+00			STH 187	11.9	20.9	7.5
210+52			STH 187	18.6	22.4	8.1
219+64			STH 187	11.9	32.9	11.8
224+00			STH 187	11.9	20.9	7.5
258+97			STH 187	11.9	20.9	7.5
265+91			STH 187	11.9	20.9	7.5
272+70			STH 187	11.9	20.9	7.5
289+72			STH 187	35.3	25.4	9.1
318+60			STH 187	22.4	29.1	10.5
333+21			STH 187	11.9	20.9	7.5
333+27			STH 187	11.9	20.9	7.5
390+51			STH 187	18.6	28.4	10.2
489+06			STH 187	95.8	32.9	11.8
507+48			STH 187	15.2	21.7	7.8
541+45			STH 187	68.3	89.6	32.3
572+28			STH 187	45.2	38.8	14.0
598+27			STH 187	11.9	38.8	14.0
605+92			STH 187	11.9	50.8	18.3
TOTALS				500	668 **	240
						968 **

** FOR INFORMATIONAL PURPOSES ONLY, QUANTITIES SHOWN ELSEWHERE
**** FOR INFORMATIONAL PURPOSES ONLY, INCEDENTAL TO OTHER BID ITEMS

DRIVEWAY CULVERT SUMMARY

CATEGORY 0010

		521.0112 CULVERT PIPE CORRUGATED STEEL 12-INCH*	521.0118 CULVERT PIPE CORRUGATED STEEL 18-INCH*	521.1012 APRON ENDWALL FOR CULVERT PIPE STEEL 12-INCH	521.1018 APRON ENDWALL FOR CULVERT PIPE STEEL 18-INCH	
STATION	LOCATION	LF	LF	EACH	EACH	REMARKS
76+50	STH 187 RT	21	-	2	-	DRIVEWAY N8680
80+10	STH 187 LT	21	-	2	-	DRIVEWAY N9145 GARAGE
81+75	STH 187 RT	42	-	2	-	DRIVEWAY N5856
104+80	STH 187 RT	30	-	2	-	DRIVEWAY N5890
161+50	STH 187 LT	28	-	2	-	DRIVEWAY N5898
171+90	STH 187 LT	30	-	2	-	DRIVEWAY N6080
480+88	STH 187 RT	-	34	-	2	DRIVEWAY N8892
508+65	STH 187 RT	30	-	2	-	DRIVEWAY N9145
538+50	STH 187 LT	45	-	2	-	DRIVEWAY N9111
542+50	STH 187 LT	-	50	-	2	DRIVEWAY N6579
TOTALS		247	84	16	4	

*MINIMUM WALL THICKNESS FOR CULVERT PIPE CORRUGATED STEEL EQUALS 0.064 INCHES

CROSS PIPE SUMMARY

CATEGORY 0010

		522.0124 RCCP CLASS III 24-INCH	522.0136 RCCP CLASS III 36-INCH	522.0196 RCCP CLASS III 96-INCH	522.0324 RCCP CLASS IV 24-INCH	522.0330 RCCP CLASS IV 30-INCH	522.0336 RCCP CLASS IV 36-INCH	522.0342 RCCP CLASS IV 42-INCH	522.0348 RCCP CLASS IV 48-INCH	522.0372 RCCP CLASS IV 72-INCH	523.0138 RCCEP CLASS IV 38" X 60"	650.6000 CONSTRUCTION STAKING PIPE CULVERTS **	INLET ELEVATION	DISCHARGE ELEVATION	SKEW	REMARKS
STATION	LOCATION	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	EACH				
91+10	STH 187 NB	-	-	-	-	-	74	-	-	-	-	1	763.57	763.54	RHF 0° 47' 57.69"	
99+24	STH 187 NB	70	-	-	-	-	-	-	-	-	-	1	762.16	761.92	LHF 3° 27' 30.88"	
106+76	STH 187 NB	-	-	-	66	-	-	-	-	-	-	1	764.57	764.40	RHF 3° 28' 36.59"	
169+23	STH 187 NB	-	74	-	-	-	-	-	-	-	-	1	763.34	763.16	LHF 1° 48' 48.72"	
182+00	STH 187 NB	-	-	-	72	-	-	-	-	-	-	1	767.75	766.45	LHF 1° 5' 3.95"	
210+52	STH 187 NB	-	-	-	-	-	90	-	-	-	-	1	764.06	764.51	LHF 32° 27' 12.13"	
219+64	STH 187 NB	70	-	-	-	-	-	-	-	-	-	1	765.28	765.20	RHF 1° 20' 06.01"	
224+00	STH 187 NB	-	-	-	72	-	-	-	-	-	-	1	767.42	767.32	LHF 1° 32' 12.21"	
258+97	STH 187 NB	-	-	-	70	-	-	-	-	-	-	1	764.96	764.31	RHF 16° 01' 28.19"	
265+91	STH 187 NB	-	-	-	70	-	-	-	-	-	-	1	764.91	764.85	LHF 00° 10' 57.30"	
272+70	STH 187 NB	-	-	-	70	-	-	-	-	-	-	1	765.53	765.42	RHF 12° 48' 18.81"	
289+72	STH 187 NB	-	-	-	-	-	-	-	-	-	74	1	765.27	764.99	LHF 0° 51' 22.96"	
318+60	STH 187 NB	-	-	-	-	-	-	74	-	-	-	1	763.24	763.15	RHF 5° 40' 19.97"	PIPE MUST BE BURIED 1'
333+21	STH 187 NB	-	-	-	70	-	-	-	-	-	-	1	767.16	766.76	LHF 1° 54' 21.69"	
333+27	STH 187 NB	-	-	-	70	-	-	-	-	-	-	1	767.15	766.88	LHF 1° 54' 21.69"	
390+51	STH 187 NB	-	-	-	-	-	74	-	-	-	-	1	774.88	774.47	LHF 1° 7' 22.93"	
489+03.58	STH 187 NB	-	-	-	-	-	-	-	68	-	-	1	768.32	768.62	RHF 0° 14' 38.88"	
489+11.50	STH 187 NB	-	-	-	-	-	-	-	68	-	-	1	768.32	768.62	RHF 0° 14' 38.88"	
507+48	STH 187 NB	-	-	-	-	70	-	-	-	-	-	1	778.35	778.50	LHF 4° 48' 52.91"	
541+45	STH 187 NB	-	-	116	-	-	-	-	-	-	-	1	772.24	772.35	RHF 14° 49' 01.78"	PIPE MUST BE BURIED 1'
542+25-544+00	STH 187 RT	178	-	-	-	-	-	-	-	-	-	1	791.16	783.00	-	
572+28	STH 187 NB	-	-	-	-	-	-	-	-	74	-	1	781.48	781.28	LHF 03° 07' 02.02"	
598+27	STH 187 NB	72	-	-	-	-	-	-	-	-	-	1	787.23	786.88	LHF 11° 33' 39.13"	
605+92	STH 187 NB	70	-	-	-	-	-	-	-	-	-	1	786.75	786.50	LHF 5° 02' 33.04"	
TOTALS		460	74	116	560	70	238	74	136	74	74	24 **				

** FOR INFORMATIONAL PURPOSES ONLY, QUANTITY SHOWN ELSEWHERE

ENDWALLS FOR REINFORCED CONCRETE CULVERT PIPE SUMMARY

CATEGORY 0010

		504.0900 CONCRETE MASONARY ENDWALL CY	522.1024 RCCP ENDWALL 24-INCH EACH	522.1030 RCCP ENDWALL 30-INCH EACH	522.1036 RCCP ENDWALL 36-INCH EACH	522.1042 RCCP ENDWALL 42-INCH EACH	522.1072 RCCP ENDWALL 72-INCH EACH	523.0538 RCCEP ENDWALL 38" X 60" EACH	633.5200 MARKERS CULVERT ENDS EACH	
STATION	LOCATION									REMARKS
91+10	STH 187 NB	-	-	-	2	-	-	-	2	CROSS PIPE
99+24	STH 187 NB	-	2	-	-	-	-	-	2	CROSS PIPE
106+76	STH 187 NB	-	2	-	-	-	-	-	2	CROSS PIPE
169+23	STH 187 NB	-	-	-	2	-	-	-	2	CROSS PIPE
182+00	STH 187 NB	-	2	-		-	-	-	2	CROSS PIPE
210+52	STH 187 NB	-	-	-	2	-	-	-	2	CROSS PIPE
219+64	STH 187 NB	-	2	-	-	-	-	-	2	CROSS PIPE
224+00	STH 187 NB	-	2	-	-	-	-	-	2	CROSS PIPE
258+97	STH 187 NB	-	2	-	-	-	-	-	2	CROSS PIPE
265+91	STH 187 NB	-	2	-	-	-	-	-	2	CROSS PIPE
272+70	STH 187 NB	-	2	-	-	-	-	-	2	CROSS PIPE
289+72	STH 187 NB	-	-	-	-	-	-	2	2	CROSS PIPE
318+60	STH 187 NB	-	-	-	-	2	-	-	2	CROSS PIPE
333+21	STH 187 NB	-	2	-	-	-	-	-	2	CROSS PIPE
333+27	STH 187 NB	-	2	-	-	-	-	-	2	CROSS PIPE
390+51	STH 187 NB	-	-	-	2	-	-	-	2	CROSS PIPE
489+03.58	STH 187 NB	9.2	-	-	-	-	-	-	2	CROSS PIPE
489+11.50	STH 187 NB		-	-	-	-	-	-	2	CROSS PIPE
507+48	STH 187 NB	-	-	2	-	-	-	-	2	CROSS PIPE
541+45	STH 187 NB	24.4	-	-	-	-	-	-	2	CROSS PIPE
542+25	STH 187 RT	-	1	-	-	-	-	-	1	DRAINAGE PIPE END
544+00	STH 187 RT	-	1	-	-	-	-	-	1	DRAINAGE PIPE END
572+28	STH 187 NB	-	-	-	-	-	2	-	2	CROSS PIPE
598+27	STH 187 NB	-	2	-	-	-	-	-	2	CROSS PIPE
605+92	STH 187 NB	-	2	-	-	-	-	-	2	CROSS PIPE
TOTALS		34	26	2	8	2	2	2	48	

CONCRETE CURB & GUTTER4-INCH SLOPED 36-INCH TYPE D

CATEGORY 0010

STATION	TO	STATION	LOCATION	601.0553 LF
542+23	-	543+90	STH 187 RT	167
TOTAL				167

BEAM GUARD SUMMARY														
CATEGORY 0010														
		614.0200 STEEL THRIE BEAM STRUCTURE APPROACH	614.0230 STEEL THRIE BEAM	614.0305 STEEL PLATE BEAM GUARD CLASS A	614.0345 STEEL PLATE BEAM GUARD SHORT RADIUS	614.0370 STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL	614.0390 STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL	614.2300 MSG GUARDRAIL 3	614.2310 MGS GUARDRAIL 3 HS	614.2500 MGS THRIE BEAM TRANSISTION	614.2610 MGS GUARDRAIL TERMINAL EAT	614.8010 ANCHOR POST ASSEMBLY TOP MOUNT	**** MARKER POSTS	
STATION TO STATION	LOCATION	LF	LF	LF	LF	EACH	EACH	LF	LF	LF	EACH	EACH	EACH	REMARKS
113+86.09 - 118+10.65	STH 187 LT	-	217	-	-	-	-	30	-	76	2	-	2	"STONEBRIDGE " BEAMGUARD
114+45.45 - 121+76.29	STH 187 RT	37	218	412	40	2	-	-	-	-	-	-	2	"STONEBRIDGE " BEAMGUARD
124+90.09 - 127+96.02	STH 187 RT	-	-	-	-	-	-	125	75	-	2	11	2	"SHIOC RIVER" BEAMGAURD
125+39.94 - 128+46.47	STH 187 LT	-	-	-	-	-	-	125	75	-	2	11	2	"SHIOC RIVER" BEAMGAURD
539+57.02 - 542+71.40	STH 187 RT	-	-	-	-	-	-	216	-	-	2	-	2	"PIPE" BEAMGAURD
540+16.79 - 542+40.31	STH 187 LT	-	-	163	25	1	1	-	-	-	-	-	2	"PIPE" BEAMGAURD
TOTALS		37	435	575	65	3	1	496	150	76	8	22	12	
**** FOR INFORMATIONAL PURPOSES ONLY, INCEDENTAL														

FENCE SAFETY					
CATEGORY 0010					
STATION TO STATION	LOCATION	616.0700.S LF	REMARKS		
89+68 - 92+50	STH 187 RT	325	CABBAGE TERRACE SITE		
89+68 - 92+50	STH 187 LT	310	CABBAGE TERRACE SITE		
97+50 - 101+00	STH 187 RT	405	CABBAGE TERRACE SITE		
97+50 - 101+00	STH 187 LT	360	CABBAGE TERRACE SITE		
122+51 - 121+63	STH 187 RT	395	SHIOC TERRACE SITE		
126+74 - 132+00	STH 187 LT	550	ALLENDER VILLAGE SITE		
127+18 - 132+00	STH 187 RT	490	ALLENDER VILLAGE SITE		
605+62 - 608+00	STH 187 RT	245	GUNDERSON SITE		
TOTAL		3080			

LANDSCAPING SUMMERY

CATEGORY 0010

		625.0500 SALVAGED TOPSOIL	627.0200 MULCHING	629.0210 FERTILIZER TYPE B	630.0130 SEEDING MIXTURE NO. 30	
STATION	LOCATION	SY	SY	CWT	LB	REMARKS
76+50	STH 187 RT	11	11	0.007	0.20	DRIVEWAY CULVERT REPLACEMENT
80+10	STH 187 RT	11	11	0.007	0.20	DRIVEWAY CULVERT REPLACEMENT
81+75	STH 187 RT	11	11	0.007	0.20	DRIVEWAY CULVERT REPLACEMENT
91+10	STH 187 LT & RT	22	22	0.014	0.39	CROSS PIPE REPLACEMENT
99+24	STH 187 LT & RT	16	16	0.010	0.29	CROSS PIPE REPLACEMENT
104+80	STH 187 RT	11	11	0.007	0.20	DRIVEWAY CULVERT REPLACEMENT
106+76	STH 187 LT & RT	16	16	0.010	0.29	CROSS PIPE REPLACEMENT
112+00-123+51	STH 187 LT & RT	1330	1330	0.838	23.95	BEAMGUARD REPLACEMENT
123+51-129+93	STH 187 LT & RT	1331	1331	0.839	23.96	BEAMGUARD REPLACEMENT
161+50	STH 187 RT	11	11	0.007	0.20	DRIVEWAY CULVERT REPLACEMENT
169+23	STH 187 LT & RT	22	22	0.014	0.39	CROSS PIPE REPLACEMENT
171+90	STH 187 RT	11	11	0.007	0.20	DRIVEWAY CULVERT REPLACEMENT
182+00	STH 187 LT & RT	16	16	0.010	0.29	CROSS PIPE REPLACEMENT
210+52	STH 187 LT & RT	22	22	0.014	0.39	CROSS PIPE REPLACEMENT
219+64	STH 187 LT & RT	16	16	0.010	0.29	CROSS PIPE REPLACEMENT
224+00	STH 187 LT & RT	16	16	0.010	0.29	CROSS PIPE REPLACEMENT
258+97	STH 187 LT & RT	16	16	0.010	0.29	CROSS PIPE REPLACEMENT
265+91	STH 187 LT & RT	16	16	0.010	0.29	CROSS PIPE REPLACEMENT
272+70	STH 187 LT & RT	16	16	0.010	0.29	CROSS PIPE REPLACEMENT
289+72	STH 187 LT & RT	36	36	0.023	0.65	CROSS PIPE REPLACEMENT
318+60	STH 187 LT & RT	25	25	0.016	0.45	CROSS PIPE REPLACEMENT
333+21	STH 187 LT & RT	16	16	0.010	0.29	CROSS PIPE REPLACEMENT
333+27	STH 187 LT & RT	16	16	0.010	0.29	CROSS PIPE REPLACEMENT
390+51	STH 187 LT & RT	22	22	0.014	0.39	CROSS PIPE REPLACEMENT
480+88	STH 187 RT	13	13	0.008	0.24	DRIVEWAY CULVERT REPLACEMENT
489+04	STH 187 LT & RT	87	87	0.055	1.57	CROSS PIPE REPLACEMENT
489+12	STH 187 LT & RT	7	7	0.004	0.13	CROSS PIPE REPLACEMENT
507+48	STH 187 LT & RT	19	19	0.012	0.34	CROSS PIPE REPLACEMENT
508+65	STH 187 RT	11	11	0.007	0.20	DRIVEWAY CULVERT REPLACEMENT
537+47-544+70	STH 187 LT & RT	3434	3434	2.163	61.81	CROSS PIPE REPLACEMENT
572+28	STH 187 LT & RT	44	44	0.028	0.80	CROSS PIPE REPLACEMENT
598+27	STH 187 LT & RT	16	16	0.010	0.29	CROSS PIPE REPLACEMENT
605+92	STH 187 LT & RT	16	16	0.010	0.29	CROSS PIPE REPLACEMENT
SUBTOTALS		6684	6684	4.211	120	
UNDISTRIBUTED		166	166	1.053	10	
PROJECT TOTALTS		6850	6850	5	130	

SILT FENCE SUMMARY

CATERGORY 0010

				628.1504 SILT FENCE	628.1520 SILT FENCE MAINTENANCE	
STATION	TO	STATION	LOCATION	LF	LF	COMMENTS
89+80	-	92+00	STH 187 RT	248	62	CULVERT REPLACEMENT
90+30	-	92+00	STH 187 LT	208	52	CULVERT REPLACEMENT
98+40	-	100+30	STH 187 LT	228	57	CULVERT REPLACEMENT
98+00	-	100+50	STH 187 RT	288	72	CULVERT REPLACEMENT
105+55	-	107+90	STH 187 RT	258	65	CULVERT REPLACEMENT
105+70	-	107+90	STH 187 LT	248	62	CULVERT REPLACEMENT
112+45	-	115+35	STH 187 LT	304	76	BEAMGAURD REPLACEMENT
114+40	-	115+60	STH 187 RT	244	61	BEAMGAURD REPLACEMENT
117+45	-	130+05	STH 187 LT	1226	307	BEAMGAURD REPLACEMENT
117+90	-	130+15	STH 187 RT	1207	302	BEAMGAURD REPLACEMENT
167+60	-	170+35	STH 187 RT	228	57	CULVERT REPLACEMENT
168+00	-	170+15	STH 187 LT	228	57	CULVERT REPLACEMENT
180+35	-	184+10	STH 187 RT	413	103	CULVERT REPLACEMENT
180+35	-	184+10	STH 187 LT	408	102	CULVERT REPLACEMENT
209+10	-	211+02	STH 187 LT	278	70	CULVERT REPLACEMENT
209+25	-	211+02	STH 187 RT	288	72	CULVERT REPLACEMENT
218+70	-	220+14	STH 187 LT	238	60	CULVERT REPLACEMENT
218+80	-	220+14	STH 187 RT	223	56	CULVERT REPLACEMENT
222+75	-	225+20	STH 187 LT	278	70	CULVERT REPLACEMENT
225+50	-	225+50	STH 187 RT	308	77	CULVERT REPLACEMENT
257+80	-	259+70	STH 187 LT	228	57	CULVERT REPLACEMENT
257+90	-	259+90	STH 187 RT	238	60	CULVERT REPLACEMENT
264+70	-	266+80	STH 187 RT	248	62	CULVERT REPLACEMENT
264+80	-	266+70	STH 187 LT	233	58	CULVERT REPLACEMENT
271+80	-	274+00	STH 187 RT	223	56	CULVERT REPLACEMENT
271+85	-	273+70	STH 187 LT	198	50	CULVERT REPLACEMENT
288+50	-	290+70	STH 187 RT	243	61	CULVERT REPLACEMENT
288+55	-	290+60	STH 187 LT	233	58	CULVERT REPLACEMENT
317+40	-	319+55	STH 187 LT	248	62	CULVERT REPLACEMENT
317+70	-	319+60	STH 187 RT	228	57	CULVERT REPLACEMENT
332+05	-	334+25	STH 187 LT	248	62	CULVERT REPLACEMENT
332+25	-	334+25	STH 187 RT	223	56	CULVERT REPLACEMENT
388+85	-	391+80	STH 187 RT	313	78	CULVERT REPLACEMENT
389+00	-	391+65	STH 187 LT	308	77	CULVERT REPLACEMENT
487+70	-	490+20	STH 187 LT	268	67	CULVERT REPLACEMENT
487+85	-	490+30	STH 187 RT	258	65	CULVERT REPLACEMENT
506+35	-	508+65	STH 187 RT	258	65	CULVERT REPLACEMENT
506+40	-	508+65	STH 187 LT	248	62	CULVERT REPLACEMENT
537+50	-	545+00	STH 187 RT	697	174	BEAMGAURD/CULVERT REPLACEMENT
537+50	-	545+00	STH 187 LT	850	212	BEAMGAURD/CULVERT REPLACEMENT
570+75	-	573+75	STH 187 RT	825	206	CULVERT REPLACEMENT
570+95	-	573+65	STH 187 LT	298	75	CULVERT REPLACEMENT
596+90	-	599+25	STH 187, LT	268	67	CULVERT REPLACEMENT
596+95	-	599+25	STH 187, RT	253	63	CULVERT REPLACEMENT
604+40	-	606+70	STH 187, LT	253	63	CULVERT REPLACEMENT
604+90	-	606+75	STH 187, RT	223	56	CULVERT REPLACEMENT
SUBTOTALS				15460	3864	
UNDISTRIBUTED				3890	986	
TOTALS				19350	4850	

PERMANENT EROSION CONTROL SUMMARY

CATERGOY 0010

STATION TO STATION	LOCATION	606.0200 RIPRAP MEDIUM CY	606.0300 RIPRAP HEAVY CY	628.2004 EROSION MAT CLASS I TYPE B SY	REMARKS
91+10	STH 187 LT	8	-	-	PIPE OUTLET
91+10	STH 187 RT	-	-	20	PIPE INLET
99+24	STH 187 LT	-	6	-	PIPE OUTLET
99+24	STH 187 RT	-	-	12	PIPE INLET
106+76	STH 187 LT	-	-	12	PIPE OUTLET
106+76	STH 187 RT	-	-	12	PIPE INLET
21+75 - 22+25	STONE BRIGDE RD LT	-	-	22	DITCH CHANNEL
112+00 - 120+00	STH 187 LT	-	-	356	DITCH CHANNEL
115+00 - 122+00	STH 187 RT	-	-	311	DITCH CHANNEL
124+00 - 130+00	STH 187 LT	-	-	267	DITCH CHANNEL
124+00 - 130+00	STH 187 RT	-	-	267	DITCH CHANNEL
169+23	STH 187 LT	-	-	20	PIPE OUTLET
169+23	STH 187 RT	-	-	20	PIPE INLET
182+00	STH 187 LT	-	-	12	PIPE INLET
182+00	STH 187 RT	-	-	12	PIPE OUTLET
210+52	STH 187 LT	-	-	20	PIPE INLET
210+52	STH 187 RT	-	-	20	PIPE OUTLET
219+64	STH 187 LT	-	-	12	PIPE OUTLET
219+64	STH 187 RT	-	-	12	PIPE INLET
224+00	STH 187 LT	-	-	12	PIPE INLET
224+00	STH 187 RT	-	-	12	PIPE OUTLET
258+97	STH 187 LT	-	-	12	PIPE OUTLET
258+97	STH 187 RT	-	-	12	PIPE INLET
265+91	STH 187 LT	-	-	12	PIPE OUTLET
265+91	STH 187 RT	-	-	12	PIPE INLET
272+70	STH 187 LT	-	-	12	PIPE OUTLET
272+70	STH 187 RT	-	-	12	PIPE INLET
289+72	STH 187 LT	-	-	25	PIPE OUTLET
289+72	STH 187 RT	-	-	25	PIPE INLET
318+60	STH 187 LT	-	-	-	PIPE TOO WET FOR EC
318+60	STH 187 RT	-	-	-	PIPE TOO WET FOR EC
333+21	STH 187 LT	-	-	12	PIPE OUTLET
333+21	STH 187 RT	-	-	12	PIPE INLET
333+27	STH 187 LT	-	-	12	PIPE OUTLET
333+27	STH 187 RT	-	-	12	PIPE INLET
390+51	STH 187 LT	9	-	-	PIPE OUTLET
390+51	STH 187 RT	-	-	20	PIPE INLET
480+88	STH 187 RT	-	-	17	DITCH CHANNEL
489+06	STH 187 LT	-	-	75	PIPE OUTLET
489+06	STH 187 RT	-	-	-	PIPE TOO WET FOR EC
507+48	STH 187 LT	-	-	15	PIPE OUTLET
507+48	STH 187 RT	-	-	15	PIPE INLET
SUBTOTALS		17	6	1738	CONTINUED ON NEXT PAGE...

PERMANENT EROSION CONTROL SUMMARY CONTINUED

CATEGORY 0010

		606.0200 RIPRAP MEDIUM	606.0300 RIPRAP HEAVY	628.2004 EROSION MAT CLASS I TYPE B	
STATION TO STATION	LOCATION	CY	CY	SY	REMARKS
539+00 - 545+00	STH 187 LT	-	-	267	DITCH CHANNEL
539+00 - 545+00	STH 187 RT	-	-	267	DITCH CHANNEL
541+45	STH 187 RT	-	29	-	PIPE INLET
541+45	STH 187 LT	-	29	-	PIPE OUTLET
572+28	STH 187 LT	-	-	36	PIPE OUTLET
572+28	STH 187 RT	-	-	36	PIPE INLET
598+27	STH 187 LT	-	-	12	PIPE OUTLET
598+27	STH 187 RT	-	-	12	PIPE INLET
605+92	STH 187 LT	-	-	12	PIPE OUTLET
605+92	STH 187 RT	-	-	12	PIPE INLET
SUBTOTALS		0	59	653	
UNDISTRIBUTED		8	15	584	
PROJECT TOTALS		25	80	2975	

MOBILIZATIONS EROSION CONTROL AND MOBILIZATIONS EMERGENCY EROSION CONTROL

CATEGORY 0010

	628.1905 MOBILIZATIONS EROSION CONTROL	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL
LOCATION	EACH	EACH
PROJECT	4	4
TOTALS	4	4

TEMPORARY EROSION CONTROL SUMMARY

CATERGOY 0010

STATION	LOCATION	628.7504 TEMPORARY DITCH CHECKS LF	628.7555 CULVERT PIPE CHECK EACH	REMARKS
91+01	STH 187 RT		6	OUTLET CHANNEL
91+01	STH 187 LT	40		OUTLET CHANNEL
99+24	STH 187 RT		6	IN PIPE AT INLET
99+24	STH 187 LT	40		OUTLET CHANNEL
106+76	STH 187 RT		6	IN PIPE AT INLET
106+76	STH 187 LT	40		OUTLET CHANNEL
169+23	STH 187 RT		6	IN PIPE AT INLET
169+23	STH 187 LT	40		OUTLET CHANNEL
182+00	STH 187 RT	40		OUTLET CHANNEL
182+00	STH 187 LT		6	IN PIPE AT INLET
210+52	STH 187 RT	40		OUTLET CHANNEL
210+52	STH 187 LT		6	IN PIPE AT INLET
219+64	STH 187 RT		6	IN PIPE AT INLET
219+64	STH 187 LT	40		OUTLET CHANNEL
224+00	STH 187 RT	40		OUTLET CHANNEL
224+00	STH 187 LT		6	IN PIPE AT INLET
258+97	STH 187 RT		6	IN PIPE AT INLET
258+97	STH 187 LT	40		OUTLET CHANNEL
265+91	STH 187 RT		6	IN PIPE AT INLET
265+91	STH 187 LT	40		OUTLET CHANNEL
272+70	STH 187 RT		6	IN PIPE AT INLET
272+70	STH 187 LT	40		OUTLET CHANNEL
289+72	STH 187 RT		6	IN PIPE AT INLET
289+72	STH 187 LT	40		OUTLET CHANNEL
318+60	STH 187 RT		6	IN PIPE AT INLET
318+60	STH 187 LT	40		OUTLET CHANNEL
333+21	STH 187 RT		6	IN PIPE AT INLET
333+21	STH 187 LT	20		OUTLET CHANNEL
333+27	STH 187 RT		6	IN PIPE AT INLET
333+27	STH 187 LT	20		OUTLET CHANNEL
390+51	STH 187 RT		6	IN PIPE AT INLET
390+51	STH 187 LT	40		OUTLET CHANNEL
480+88	STH 187 RT		6	IN PIPE AT INLET
489+06	STH 187 RT		12	IN PIPE AT INLET
489+06	STH 187 LT	40		OUTLET CHANNEL
507+48	STH 187 RT		6	IN PIPE AT INLET
507+48	STH 187 LT	40		OUTLET CHANNEL
541+45	STH 187 RT		6	IN PIPE AT INLET
541+45	STH 187 LT	80		OUTLET CHANNEL
542+52	STH 187 LT		6	IN PIPE AT INLET
572+28	STH 187 RT		6	IN PIPE AT INLET
572+28	STH 187 LT	40		OUTLET CHANNEL
598+27	STH 187 RT		6	IN PIPE AT INLET
598+27	STH 187 LT	40		OUTLET CHANNEL
605+92	STH 187 RT		6	IN PIPE AT INLET
605+92	STH 187 LT	40		OUTLET CHANNEL
SUBTOTALS		880	150	
UNDISTRIBUTED		220	40	
PROJECT TOTALS		1100	190	

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ERECTION AND REMOVAL OF TYPE II SIGNS AND SUPPORTS												
SIGN NO.	LOCATION	SIGN CODE	W X H	637.2210 SIGNS TYPE II REFLECTIVE H S.F.	637.2230 SIGNS TYPE II REFLECTIVE F S.F.	634.0612 POSTS WOOD 4x6x12 EACH	634.0614 POSTS WOOD 4x6x14 EACH	634.0616 POSTS WOOD 4x6x16 EACH	634.0618 POSTS WOOD 4x6x18 EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
1	STH 54	R1-1	36" X 36"	7.46	---	---	1	---	---	1	1	
2	N. OF STH 54	J4-1	---	---	---	---	---	---	---	1	---	
3	"	D2-1	66" X 15"	6.88	---	---	1	1	---	---	2	SEE SIGN DETAIL, PART OF REMOVAL FOR SIGN #2
4	"	D1-3	84" X 36"	21.00	---	---	1	1	---	1	2	SEE SIGN DETAIL
5	"	R2-1	24" X 30"	5.00	---	---	1	---	---	1	1	35 MPH
6	"	J4-1	24" X 36"	6.00	---	---	1	---	---	---	---	STH 187, SEE PLAN SHEET
6A	"	W14-3	48" x 36"	---	6.00	---	---	---	---	1	1	MOUNT ON BACK OF SIGN #6
7	"	J1-2	48" X 39"	13.00	---	---	1	---	---	1	1	STH 54, STH 187, SEE PLAN SHEET
8	S. OF W. MAPLE CT	W3-1	36" X 36"	---	9.00	---	1	---	---	1	1	
9	S. OF E. MAPLE CT	R2-1	24" X 30"	5.00	---	---	1	---	---	1	1	35 MPH
10	S. OF W. MAPLE CT	R2-1	24" X 30"	5.00	---	---	1	---	---	1	1	35 MPH
11	E. MAPLE CT	R1-1	30" X 30"	5.18	---	---	1	---	---	1	1	
12	W. MAPLE CT	R1-1	30" X 30"	5.18	---	---	1	---	---	1	1	
13	SOMMERS ST	R1-1	30" X 30"	5.18	---	---	1	---	---	1	1	
14	N. OF SOMMERS ST	I2-3	60" X 24"	10.00	---	---	1	1	---	1	2	SEE SIGN DETAIL
15	"	I55-56	30" X 36"	7.50	---	---	1	---	---	1	1	SEE SIGN DETAIL
16	"	R2-1	24" X 30"	5.00	---	---	1	---	---	1	1	35 MPH
17	"	R2-1	24" X 30"	5.00	---	---	1	---	---	1	1	45 MPH
18	"	R2-1	---	---	---	---	---	---	---	1	1	
19	"	R2-1	---	---	---	---	---	---	---	1	1	
20	S. OF STONE BRIDGE RD	W1-2L	---	---	---	---	---	---	---	1	1	
21	"	W14-3	48" X 36"	---	6.00	---	1	---	---	1	1	
22	"	R2-1	24" X 30"	5.00	---	---	---	---	---	---	---	45 MPH, MOUNT ON BACK OF SIGN #21, PART OF REMOVAL FOR SIGN #21
23	"	W1-6	48" X 24"	---	8.00	---	1	---	---	1	1	
24	"	W1-6	48" X 24"	---	8.00	---	---	1	---	1	1	
25	STONE BRIDGE RD	R1-1	30" X 30"	5.18	---	---	1	---	---	1	1	
25A	N. OF STONE BRIDGE RD	R7-1R	18" X 24"	3.00	---	1	---	---	---	---	---	
25B	"	R7-1L	18" X 24"	3.00	---	1	---	---	---	---	---	
26	"	W5-52L	12" X 36"	---	3.00	1	---	---	---	1	1	
27	"	W5-52R	12" X 36"	---	3.00	1	---	---	---	1	1	
27A	"	R9-55	18" X 24"	3.00	---	1	---	---	---	---	---	
28	"	W5-52R	12" X 36"	---	3.00	1	---	---	---	1	1	
28A	"	R9-55	18" X 24"	3.00	---	1	---	---	---	---	---	
29	"	W5-52L	12" X 36"	---	3.00	1	---	---	---	1	1	
29A	"	R7-1L	18" X 24"	3.00	---	1	---	---	---	---	---	
29B	"	R7-1R	18" X 24"	3.00	---	1	---	---	---	---	---	
30	"	R2-1	24" X 30"	5.00	---	---	1	---	---	1	1	55 MPH
31	"	R2-1	24" X 30"	5.00	---	---	1	---	---	1	1	45 MPH
32	"	W14-3	48" X 36"	---	6.00	---	1	---	---	1	1	
32A	"	R7-1L	18" X 24"	3.00	---	1	---	---	---	---	---	
32B	"	R7-1R	18" X 24"	3.00	---	1	---	---	---	---	---	
33	S. OF KYSLEY RD (S)	R2-5A	---	---	---	---	---	---	---	1	1	REMOVE W13-1W ALSO
34	"	W3-5	36" X 36"	---	9.00	---	1	---	---	---	---	45 MPH
34A	"	R9-55	18" X 24"	3.00	---	1	---	---	---	---	---	
34B	"	R9-55	18" X 24"	3.00	---	1	---	---	---	---	---	
34C	"	R7-1R	18" X 24"	3.00	---	1	---	---	---	---	---	
34D	"	R7-1L	18" X 24"	3.00	---	1	---	---	---	---	---	
PAGE SUBTOTALS				168.56	64.00	16	23	4	0	31	34	
PROJECT NO: 6520-03-60		HWY: STH 187			COUNTY: OUTAGAMIE			MISCELLANEOUS QUANTITIES			SHEET: 70	
E												

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ERECTION AND REMOVAL OF TYPE II SIGNS AND SUPPORTS													
SIGN NO.	LOCATION	SIGN CODE	W X H	637.2210 SIGNS TYPE II REFLECTIVE H S.F.	637.2230 SIGNS TYPE II REFLECTIVE F S.F.	634.0612 POSTS WOOD 4x6x12 EACH	634.0614 POSTS WOOD 4x6x14 EACH	634.0616 POSTS WOOD 4x6x16 EACH	634.0618 POSTS WOOD 4x6x18 EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS	
35	KYSLEY RD (S)	R1-1	30" X 30"	5.18	---	---	1	---	---	1	1		
36	KYSLEY RD (N)	R1-1	30" X 30"	5.18	---	---	1	---	---	1	1		
37	"	R1-1	30" X 30"	5.18	---	---	1	---	---	1	1		
38	N. OF KYSLEY RD (N)	W1-6	48" X 24"	---	8.00	---	1	---	---	1	1		
39	S. OF CTH P	J1-1	24" X 39"	6.50	---	---	1	---	---	1	1	CTH P, SEE PLAN SHEET	
39A	"	W14-3	48" X 36"	---	6.00	---	1	---	---	1	1		
40	"	R2-1	24" X 30"	5.00	---	---	1	---	---	---	---	55 MPH	
40A	"	J4-1	24" X 36"	6.00	---	---	1	---	---	1	1	STH 187, SEE PLAN SHEET	
41	"	J13-1	24" X 45"	7.50	---	---	---	1	---	1	1	CTH P, SEE PLAN SHEET	
41A		S3-51	48" X 24"	---	8.00	---	---	2	---	---	---		
41B		S57-51	30" X 15"	---	3.13	---	---	---	---	---	---	NEXT 8 MILES, MOUNT CENTERED BELOW SIGN #41A	
42	CTH P	M1-6	---	---	---	---	---	---	---	1	---		
43	"	W1-7	48" X 24"	---	8.00	---	1	---	---	---	1	PART OF REMOVAL FOR SIGN #42	
44	N. OF CTH P	J13-1	24" X 45"	7.50	---	---	---	1	---	1	1	CTH P, SEE PLAN SHEET	
45	CTH P	R1-1	36" X 36"	7.46	---	---	1	---	---	1	1		
45A	"	J13-1	24" X 45"	7.50	---	---	---	1	---	---	---	STH 187, SEE PLAN SHEET	
46	N. OF CTH P	J4-1	24" X 36"	6.00	---	---	1	---	---	1	1	STH 187, SEE PLAN SHEET	
47	"	R2-1	24" X 30"	5.00	---	---	1	---	---	---	---	55 MPH	
47A	"	J1-1	24" X 39"	6.50	---	---	1	---	---	1	1	CTH P, SEE PLAN SHEET	
48	"	I55-56	30" X 36"	7.50	---	---	1	---	---	1	1	SEE SIGN DETAIL	
48A	"	W14-3	48" X 36"	---	6.00	---	1	---	---	1	1		
49	"	W14-3	48" X 36"	---	6.00	---	1	---	---	1	1		
50	"	W1-1R	36" X 36"	---	9.00	---	---	---	1	---	1	PART OF REMOVAL FOR SIGN #50A	
50A	"	W13-1	24" X 24"	---	4.00	---	---	---	---	1	---	SPEED TO BE DETERMINED IN THE FIELD, MOUNT BELOW SIGN #50	
51	"	W14-3	48" X 36"	---	6.00	---	1	---	---	1	1		
52	"	W14-3	48" X 36"	---	6.00	---	1	---	---	1	1		
52A	S. OF KLINER RD	W14-3	48" X 36"	---	6.00	---	1	---	---	1	1		
52B	"	W1-8	18" X 24"	---	3.00	1	---	---	---	---	---		
52C	"	W1-8	18" X 24"	---	3.00	---	---	---	---	---	---		
52D	"	W1-8	18" X 24"	---	3.00	1	---	---	---	---	---		
52E	"	W1-8	18" X 24"	---	3.00	---	---	---	---	---	---		
53	"	W1-6	48" X 24"	---	8.00	---	1	---	---	1	1		
54	"	W1-6	48" X 24"	---	8.00	---	---	---	---	---	---	MOUNT ON BACK OF SIGN #53, PART OF REMOVAL FOR SIGN #53	
54A	"	W1-8	18" X 24"	---	3.00	1	---	---	---	---	---		
54B	"	W1-8	18" X 24"	---	3.00	---	---	---	---	---	---		
54C	"	W1-8	18" X 24"	---	3.00	1	---	---	---	---	---		
54D	"	W1-8	18" X 24"	---	3.00	---	---	---	---	---	---		
54E	"	W1-8	18" X 24"	---	3.00	---	---	---	---	---	---		
55	"	W1-6	48" X 24"	---	8.00	---	1	---	---	1	1		
55A	"	W1-8	18" X 24"	---	3.00	1	---	---	---	---	---		
55B	"	W1-8	18" X 24"	---	3.00	---	---	---	---	---	---		
55C	"	W1-8	18" X 24"	---	3.00	1	---	---	---	---	---		
55D	"	W1-8	18" X 24"	---	3.00	---	---	---	---	---	---		
56	"	W1-2L	30" X 30"	---	6.25	---	---	1	---	---	1	PART OF REMOVAL FOR SIGN #56A	
56A	"	W13-1	18" X 18"	---	2.25	---	---	---	---	1	---	SPEED TO BE DETERMINED IN THE FIELD, MOUNT BELOW SIGN #56	
PAGE SUBTOTALS				88.00	147.63	6	21	6	1	23	23		
PROJECT NO: 6520-03-60		HWY: STH 187			COUNTY: OUTAGAMIE			MISCELLANEOUS QUANTITIES			SHEET: 71		E

ERECTION AND REMOVAL OF TYPE II SIGNS AND SUPPORTS

SIGN NO.	LOCATION	SIGN CODE	W X H	637.2210 SIGNS TYPE II REFLECTIVE H S.F.	637.2230 SIGNS TYPE II REFLECTIVE F S.F.	634.0612 POSTS WOOD 4x6x12 EACH	634.0614 POSTS WOOD 4x6x14 EACH	634.0616 POSTS WOOD 4x6x16 EACH	634.0618 POSTS WOOD 4x6x18 EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
57	S. OF KLINER RD	S3-1	---	---	---	---	---	---	---	1	1	
58	"	W1-1L	36" X 36"	---	9.00	---	---	---	1	---	1	PART OF REMOVAL FOR SIGN #58A
58A	"	W13-1	24" X 24"	---	4.00	---	---	---	---	1	---	SPEED TO BE DETERMINED IN THE FIELD, MOUNT BELOW SIGN #58
59	"	W1-1R	36" X 36"	---	9.00	---	---	---	1	---	1	PART OF REMOVAL FOR SIGN #59A
59A	"	W13-1	24" X 24"	---	4.00	---	---	---	---	1	---	SPEED TO BE DETERMINED IN THE FIELD, MOUNT BELOW SIGN #59
60	"	S3-1	---	---	---	---	---	---	---	1	1	
61	"	W1-2R	30" X 30"	---	6.25	---	---	1	---	---	1	PART OF REMOVAL FOR SIGN #61A
61A	"	W13-1	18" X 18"	---	2.25	---	---	---	---	1	---	SPEED TO BE DETERMINED IN THE FIELD, MOUNT BELOW SIGN #60
61B	"	W1-8	18" X 24"	---	3.00	1	---	---	---	---	---	
61C	"	W1-8	18" X 24"	---	3.00	---	---	---	---	---	---	
61D	"	W1-8	18" X 24"	---	3.00	1	---	---	---	---	---	
61E	"	W1-8	18" X 24"	---	3.00	---	---	---	---	---	---	
62	"	W1-6	48" X 24"	---	8.00	---	1	---	---	1	1	
63	"	W1-6	48" X 24"	---	8.00	---	1	---	---	1	1	
63A	"	W1-8	18" X 24"	---	3.00	1	---	---	---	---	---	
63B	"	W1-8	18" X 24"	---	3.00	---	---	---	---	---	---	
63C	"	W1-8	18" X 24"	---	3.00	1	---	---	---	---	---	
63D	"	W1-8	18" X 24"	---	3.00	---	---	---	---	---	---	
64	"	W1-1L	36" X 36"	---	9.00	---	---	---	1	---	1	PART OF REMOVAL FOR SIGN #64A
64A	"	W13-1	24" X 24"	---	4.00	---	---	---	---	1	---	SPEED TO BE DETERMINED IN THE FIELD, MOUNT BELOW SIGN #64
65	"	W1-6	48" X 24"	---	8.00	---	1	---	---	1	1	
66	"	W14-3	48" X 36"	---	6.00	---	1	---	---	1	1	
67	"	W1-2R	30" X 30"	---	6.25	---	---	1	---	---	1	PART OF REMOVAL FOR SIGN #67A
67A	"	W13-1	18" X 18"	---	2.25	---	---	---	---	1	---	SPEED TO BE DETERMINED IN THE FIELD, MOUNT BELOW SIGN #67
68	"	W1-1L	36" X 36"	---	9.00	---	---	1	---	---	1	PART OF REMOVAL FOR SIGN #68A
68A	"	W13-1	24" X 24"	---	4.00	---	---	---	---	1	---	SPEED TO BE DETERMINED IN THE FIELD, MOUNT BELOW SIGN #68
69	"	W14-3	48" X 36"	---	6.00	---	1	---	---	1	1	
70	KLINER RD	R1-1	30" X 30"	5.18	---	---	1	---	---	1	1	
70A	"	W1-7	48" X 24"	---	8.00	---	1	---	---	---	---	
71	N. OF KLINER RD	I55-56	30" X 36"	7.50	---	---	1	---	---	1	1	SEE SIGN DETAIL
71A	"	W1-8	18" X 24"	---	3.00	1	---	---	---	---	---	
71B	"	W1-8	18" X 24"	---	3.00	---	---	---	---	---	---	
71C	"	W1-8	18" X 24"	---	3.00	1	---	---	---	---	---	
71D	"	W1-8	18" X 24"	---	3.00	---	---	---	---	---	---	
72	"	W1-6	48" X 24"	---	8.00	---	1	---	---	1	1	
73	"	W1-6	48" X 24"	---	8.00	---	1	---	---	1	1	
73A	"	W1-8	18" X 24"	---	3.00	1	---	---	---	---	---	
73B	"	W1-8	18" X 24"	---	3.00	---	---	---	---	---	---	
73C	"	W1-8	18" X 24"	---	3.00	1	---	---	---	---	---	
PAGE SUBTOTALS				12.68	174.00	8	10	3	3	17	17	

ERECTION AND REMOVAL OF TYPE II SIGNS AND SUPPORTS

SIGN NO.	LOCATION	SIGN CODE	W X H	637.2210 SIGNS TYPE II REFLECTIVE H S.F.	637.2230 SIGNS TYPE II REFLECTIVE F S.F.	634.0612 POSTS WOOD 4x6x12 EACH	634.0614 POSTS WOOD 4x6x14 EACH	634.0616 POSTS WOOD 4x6x16 EACH	634.0618 POSTS WOOD 4x6x18 EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
73D	N. OF KLINER RD	W1-8	18" X 24"	---	3.00	---	---	---	---	---	---	
74	"	W14-3	48" X 36"	---	6.00	---	1	---	---	1	1	
75	"	W1-1R	36" X 36"	---	9.00	---	---	---	1	---	1	PART OF REMOVAL FOR SIGN #75A
75A	"	W13-1	24" X 24"	---	4.00	---	---	---	---	1	---	SPEED TO BE DETERMINED IN THE FIELD, MOUNT BELOW SIGN #75
76	"	W1-2R	30" X 30"	---	6.25	---	---	1	---	---	1	PART OF REMOVAL FOR SIGN #76A
76A	"	W13-1	18" X 18"	---	2.25	---	---	---	---	1	---	SPEED TO BE DETERMINED IN THE FIELD, MOUNT BELOW SIGN #76
77	"	W14-3	48" X 36"	---	6.00	---	1	---	---	1	1	
78	S. OF NEWLAND RD	W1-2L	30" X 30"	---	6.25	---	---	1	---	---	1	PART OF REMOVAL FOR SIGN #78A
78A	"	W13-1	18" X 18"	---	2.25	---	---	---	---	1	---	SPEED TO BE DETERMINED IN THE FIELD, MOUNT BELOW SIGN #78
79	"	W1-2L	30" X 30"	---	6.25	---	---	1	---	---	1	PART OF REMOVAL FOR SIGN #79A
79A	"	W13-1	18" X 18"	---	2.25	---	---	---	---	1	---	SPEED TO BE DETERMINED IN THE FIELD, MOUNT BELOW SIGN #79
80	"	W1-6	48" X 24"	---	8.00	---	1	---	---	1	1	
81	"	W1-4R	30" X 30"	---	6.25	---	---	1	---	---	1	PART OF REMOVAL FOR SIGN #81A
81A	"	W13-1	18" X 18"	---	2.25	---	---	---	---	1	---	SPEED TO BE DETERMINED IN THE FIELD, MOUNT BELOW SIGN #81
82	"	W1-4L	30" X 30"	---	6.25	---	---	1	---	---	1	PART OF REMOVAL FOR SIGN #82A
82A	"	W13-1	18" X 18"	---	2.25	---	---	---	---	1	---	SPEED TO BE DETERMINED IN THE FIELD, MOUNT BELOW SIGN #82
83	NEWLAND RD	R1-1	30" X 30"	5.18	---	---	1	---	---	1	1	
83A	"	W1-7	48" X 24"	---	8.00	---	1	---	---	---	---	
84	N. OF NEWLAND RD	W1-2L	30" X 30"	---	6.25	---	---	1	---	---	1	PART OF REMOVAL FOR SIGN #84A
84A	"	W13-1	18" X 18"	---	2.25	---	---	---	---	1	---	SPEED TO BE DETERMINED IN THE FIELD, MOUNT BELOW SIGN #84
85	"	W1-4R	30" X 30"	---	6.25	---	---	1	---	---	1	PART OF REMOVAL FOR SIGN #85A
85A	"	W13-1	18" X 18"	---	2.25	---	---	---	---	1	---	SPEED TO BE DETERMINED IN THE FIELD, MOUNT BELOW SIGN #85
86	"	W1-2R	30" X 30"	---	6.25	---	---	1	---	---	1	PART OF REMOVAL FOR SIGN #86A
86A	"	W13-1	18" X 18"	---	2.25	---	---	---	---	1	---	SPEED TO BE DETERMINED IN THE FIELD, MOUNT BELOW SIGN #86
87	"	W1-2R	30" X 30"	---	6.25	---	---	1	---	---	1	PART OF REMOVAL FOR SIGN #87A
87A	"	W13-1	18" X 18"	---	2.25	---	---	---	---	1	---	SPEED TO BE DETERMINED IN THE FIELD, MOUNT BELOW SIGN #87
88	"	W1-6	48" X 24"	---	8.00	---	1	---	---	1	1	
89	"	W1-6	48" X 24"	---	8.00	---	1	---	---	1	1	
90	"	W1-4L	36" X 36"	---	9.00	---	---	1	---	---	1	PART OF REMOVAL FOR SIGN #90A
90A	"	W13-1	24" X 24"	---	4.00	---	---	---	---	1	---	SPEED TO BE DETERMINED IN THE FIELD, MOUNT BELOW SIGN #90
91	"	W1-2L	30" X 30"	---	6.25	---	---	1	---	---	1	PART OF REMOVAL FOR SIGN #91A
91A	"	W13-1	18" X 18"	---	2.25	---	---	---	---	1	---	SPEED TO BE DETERMINED IN THE FIELD, MOUNT BELOW SIGN #91
92	N. OF TRAPPERS LN	W1-1R	36" X 36"	---	9.00	---	---	1	---	---	1	PART OF REMOVAL FOR SIGN #92A
92A	"	W13-1	24" X 24"	---	4.00	---	---	---	---	1	---	SPEED TO BE DETERMINED IN THE FIELD, MOUNT BELOW SIGN #92
93	"	W1-4L	30" X 30"	---	6.25	---	---	1	---	---	1	PART OF REMOVAL FOR SIGN #93A
93A	"	W13-1	18" X 18"	---	2.25	---	---	---	---	1	---	SPEED TO BE DETERMINED IN THE FIELD, MOUNT BELOW SIGN #93
93B	N. OF TRAPPERS LN	W1-8	18" X 24"	---	3.00	1	---	---	---	---	---	
93C	"	W1-8	18" X 24"	---	3.00	---	---	---	---	---	---	
93D	"	W1-8	18" X 24"	---	3.00	1	---	---	---	---	---	

PAGE SUBTOTALS 5.18 188.50 2 7 13 1 20 20

3

ERECTION AND REMOVAL OF TYPE II SIGNS AND SUPPORTS													
SIGN NO.	LOCATION	SIGN CODE	W X H	637.2210 SIGNS TYPE II REFLECTIVE H S.F.	637.2230 SIGNS TYPE II REFLECTIVE F S.F.	634.0612 POSTS WOOD 4x6x12 EACH	634.0614 POSTS WOOD 4x6x14 EACH	634.0616 POSTS WOOD 4x6x16 EACH	634.0618 POSTS WOOD 4x6x18 EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS	
93E	N. OF TRAPPERS LN	W1-8	18" X 24"	---	3.00	---	---	---	---	---	---		
94	"	W1-6	48" X 24"	---	8.00	---	1	---	---	1	1		
95	"	W1-6	48" X 24"	---	8.00	---	1	---	---	1	1		
95A	"	W1-8	18" X 24"	---	3.00	1	---	---	---	---	---		
95B	"	W1-8	18" X 24"	---	3.00	---	---	---	---	---	---		
96	S. OF DEER VIEW RD	W1-4R	30" X 30"	---	6.25	---	---	1	---	---	1	PART OF REMOVAL FOR SIGN #96A	
96A	"	W13-1	18" X 18"	---	2.25	---	---	---	---	1	---	SPEED TO BE DETERMINED IN THE FIELD, MOUNT BELOW SIGN #96	
97	"	W1-1L	36" X 36"	---	9.00	---	---	1	---	---	1	PART OF REMOVAL FOR SIGN #97A	
97A	"	W13-1	24" X 24"	---	4.00	---	---	---	---	1	---	SPEED TO BE DETERMINED IN THE FIELD, MOUNT BELOW SIGN #97	
98	"	W1-4R	30" X 30"	---	6.25	---	---	1	---	---	1	PART OF REMOVAL FOR SIGN #98A	
98A	"	W13-1	18" X 18"	---	2.25	---	---	---	---	1	---	SPEED TO BE DETERMINED IN THE FIELD, MOUNT BELOW SIGN #98	
99	DEER VIEW RD	W1-7	48" X 24"	---	8.00	---	1	---	---	1	1		
100	"	R1-1	30" X 30"	5.18	---	---	1	---	---	1	1		
101	N. OF DEER VIEW RD	W1-2L	30" X 30"	---	6.25	---	---	1	---	---	1	PART OF REMOVAL FOR SIGN #101A	
101A	"	W13-1	18" X 18"	---	2.25	---	---	---	---	1	---	SPEED TO BE DETERMINED IN THE FIELD, MOUNT BELOW SIGN #101	
102	"	W1-6	48" X 24"	---	8.00	---	1	---	---	1	---		
103	"	W1-2R	30" X 30"	---	6.00	---	---	1	---	---	1	PART OF REMOVAL FOR SIGN #103A	
103A	"	W13-1	18" X 18"	---	6.00	---	---	---	---	1	---	SPEED TO BE DETERMINED IN THE FIELD, MOUNT BELOW SIGN #103	
104	S. OF SCHINKE RD	W14-3	---	---	---	---	---	---	---	1	1		
105	"	W1-2L	30" X 30"	---	6.25	---	---	1	---	---	1	PART OF REMOVAL FOR SIGN #106	
106	"	W13-1	18" X 18"	---	2.25	---	---	---	---	1	---	SPEED TO BE DETERMINED IN THE FIELD, MOUNT BELOW SIGN #105	
107	"	W1-3R	---	---	---	---	---	---	---	1	1		
108	"	W13-1	---	---	---	---	---	---	---	1	---		
109	"	W5-52L	---	---	---	---	---	---	---	1	1		
110	"	W5-52R	---	---	---	---	---	---	---	1	1		
111	"	W5-52R	---	---	---	---	---	---	---	1	1		
112	"	W5-52L	---	---	---	---	---	---	---	1	1		
113	"	W1-6	48" X 24"	---	8.00	---	1	---	---	1	1		
114	"	W1-6	48" X 24"	---	8.00	---	1	---	---	1	---		
115	"	W5-2	---	---	---	---	---	---	---	1	1		
116	"	W1-2R	30" X 30"	---	6.25	---	---	1	---	---	1	PART OF REMOVAL FOR SIGN #117	
117	"	W13-1	18" X 18"	---	2.25	---	---	---	---	1	---	SPEED TO BE DETERMINED IN THE FIELD, MOUNT BELOW SIGN #116	
118	"	W14-3	48" X 36"	---	6.00	---	---	---	---	---	---	MOUNT ON BACK OF SIGN #119, PART OF REMOVAL FOR SIGN #120	
119	"	W1-2R	30" X 30"	---	6.25	---	---	1	---	---	---	PART OF REMOVAL FOR SIGN #120	
120	"	W13-1	18" X 18"	---	2.25	---	---	---	---	1	---	SPEED TO BE DETERMINED IN THE FIELD, MOUNT BELOW SIGN #119	
121-133	VACANT		---	---	---	---	---	---	---	---	---		
134	S. OF SCHINKE RD	W14-3	48" X 36"	---	6.00	---	1	---	---	1	1		
134A	SCHINKE RD	R1-1	30" X 30"	5.18	---	---	1	---	---	1	1		
134B	"	W1-7	48" X 24"	---	8.00	---	1	---	---	---	---		
135	N. OF SCHINKE RD	W1-6	48" X 24"	---	8.00	---	1	---	---	1	1		
136	"	W1-2L	30" X 30"	---	6.25	---	---	1	---	---	1	PART OF REMOVAL FOR SIGN #136A	
136A	"	W13-1	18" X 18"	---	2.25	---	---	---	---	1	---	SPEED TO BE DETERMINED IN THE FIELD, MOUNT BELOW SIGN #136	
137	"	W14-3	48" X 36"	---	6.00	---	1	---	---	1	1		
138	"	W14-3	48" X 36"	---	6.00	---	1	---	---	1	1		
139	N. OF SCHINKE RD	W1-2L	30" X 30"	---	6.25	---	---	1	---	---	1	PART OF REMOVAL FOR SIGN #139A	
PAGE SUBTOTALS				10.36	187.75	1	13	10	0	29	26		
PROJECT NO: 6520-03-60		HWY: STH 187			COUNTY: OUTAGAMIE			MISCELLANEOUS QUANTITIES				SHEET: 74	E

ERECTION AND REMOVAL OF TYPE II SIGNS AND SUPPORTS

SIGN NO.	LOCATION	SIGN CODE	W X H	637.2210 SIGNS TYPE II REFLECTIVE H S.F.	637.2230 SIGNS TYPE II REFLECTIVE F S.F.	634.0612 POSTS WOOD 4x6x12 EACH	634.0614 POSTS WOOD 4x6x14 EACH	634.0616 POSTS WOOD 4x6x16 EACH	634.0618 POSTS WOOD 4x6x18 EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
139A	N. OF SCHINKE RD	W13-1	18" X 18"	---	2.25	---	---	---	---	1	---	SPEED TO BE DETERMINED IN THE FIELD, MOUNT BELOW SIGN #139
140	"	W11-5	30" X 30"	---	6.25	---	1	---	---	1	1	
141	S. OF CTH F	W1-6	48" X 24"	---	8.00	---	1	---	---	1	1	
142	"	W1-6	48" X 24"	---	8.00	---	1	---	---	---	1	PART OF REMOVAL FOR SIGN #141
143	"	W3-1	36" X 36"	---	9.00	---	1	---	---	1	1	
144	"	W11-5	30" X 30"	---	6.25	---	1	---	---	1	1	
145	"	W1-2R	30" X 30"	---	6.25	---	---	1	---	---	1	PART OF REMOVAL FOR SIGN #145A
145A	"	W13-1	18" X 18"	---	2.25	---	---	---	---	1	---	SPEED TO BE DETERMINED IN THE FIELD, MOUNT BELOW SIGN #145
146	"	W14-3	48" X 36"	---	6.00	---	1	---	---	1	1	
147	"	J1-1	24" X 39"	6.50	---	---	1	---	---	1	1	CTH F, SEE PLAN SHEET
148	"	I2-3	54" X 24"	9.00	---	---	2	---	---	1	1	SEE SIGN DETAIL
149	S. OF CTH F	W14-3	48" X 36"	---	6.00	---	1	---	---	1	1	
150	"	R2-1	24" X 30"	5.00	---	---	1	---	---	---	---	55 MPH, MOUNT ON BACK OF SIGN #149
151	"	I55-56	30" X 36"	7.50	---	---	1	---	---	1	1	SEE PLAN SHEET
152	"	D1-3	78" X 30"	16.25	---	---	1	1	---	1	2	SEE SIGN DETAIL
153	"	J4-1	24" X 36"	6.00	---	---	---	---	---	---	---	STH 187, SEE PLAN SHEET
154	"	J4-1	---	---	---	---	---	---	---	---	---	PART OF REMOVAL FOR SIGN #155
155	"	D2-1	72" X 15"	7.50	---	---	1	1	---	1	2	SEE SIGN DETAIL
156	"	J12-1	24" X 45"	7.50	---	---	---	1	---	1	1	STH 187,SEE PLAN SHEET
157	CTH F	R1-1	30" X 30"	5.18	---	---	1	---	---	---	1	PART OF REMOVAL FOR SIGN #157A
157A	"	R1-3P	18" X 6"	0.75	---	---	---	---	---	1	---	MOUNT BELOW SIGN #157
158	"	R1-1	30" X 30"	5.18	---	---	1	---	---	---	1	PART OF REMOVAL FOR SIGN #158A
158A	"	R1-3P	18" X 6"	0.75	---	---	---	---	---	1	---	MOUNT BELOW SIGN #158
159	S. OF CTH F	J12-1	24" X 45"	7.50	---	---	---	1	---	1	1	CTH F, SEE PLAN SHEET
160	CTH F	R1-1	30" X 30"	5.18	---	---	1	---	---	1	1	
161	"	R1-1	30" X 30"	5.18	---	---	1	---	---	---	1	PART OF REMOVAL FOR SIGN #161A
161A	"	R1-3P	18" X 6"	0.75	---	---	---	---	---	1	---	MOUNT BELOW SIGN #161
162	"	J2-3	72" X 57"	28.50	---	---	---	1	1	1	2	STH 187, CTH F, STH 187, SEE PLAN SHEET
163	"	J12-1	24" X 45"	7.50	---	---	---	1	---	1	1	CTH F, SEE PLAN SHEET
164	"	R1-1	36" X 36"	7.46	---	---	1	---	---	---	1	PART OF REMOVAL FOR SIGN #164A
164A	"	R1-3P	18" X 6"	0.75	---	---	---	---	---	1	---	MOUNT BELOW SIGN #164
165	N. OF CTH F	J4-1	---	---	---	---	---	---	---	---	---	PART OF REMOVAL FOR SIGN #166
166	"	D2-2	84" X 24"	14.00	---	---	1	1	---	1	2	SEE SIGN DETAIL
167	"	J4-1	24" X 36"	6.00	---	---	1	---	---	---	---	STH 187, SEE PLAN SHEET
168	"	D1-2	66" X 30"	13.75	---	---	1	1	---	1	2	SEE SIGN DETAIL
169	"	R2-1	24" X 30"	5.00	---	---	1	---	---	---	---	55 MPH
170	"	J1-1	24" X 39"	6.50	---	---	1	---	---	1	1	CTH F, SEE PLAN SHEET
171	"	W3-1	36" X 36"	---	9.00	---	1	---	---	1	1	
PAGE SUBTOTALS				185.18	69.25	0	25	9	1	26	31	

ERECTION AND REMOVAL OF TYPE II SIGNS AND SUPPORTS

SIGN NO.	LOCATION	SIGN CODE	W X H	637.2210 SIGNS TYPE II REFLECTIVE H S.F.	637.2230 SIGNS TYPE II REFLECTIVE F S.F.	634.0612 POSTS WOOD 4x6x12 EACH	634.0614 POSTS WOOD 4x6x14 EACH	634.0616 POSTS WOOD 4x6x16 EACH	634.0618 POSTS WOOD 4x6x18 EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
172	S. OF JOHNSON RD	W2-2	30" X 30"	---	6.25	---	1	---	---	1	1	
173	"	W14-3	48" X 36"	---	6.00	---	1	---	---	1	1	
174	"	W1-2R	30" X 30"	---	6.25	---	---	1	---	---	1	PART OF REMOVAL FOR SIGN #174A
174A	"	W13-1	18" X 18"	---	2.25	---	---	---	---	1	---	SPEED TO BE DETERMINED IN THE FIELD, MOUNT BELOW SIGN #174
175	JOHNSON RD	R1-1	30" X 30"	5.18	---	---	1	---	---	1	1	
175A	"	W1-7	48" X 24"	---	8.00	---	1	---	---	---	---	
176	N. OF JOHNSON RD	S3-1	---	---	---	---	---	---	---	1	1	
177	"	W1-1L	36" X 36"	---	9.00	---	---	1	---	---	1	PART OF REMOVAL FOR SIGN #177A
177A	"	W13-1	18" X 18"	---	2.25	---	---	---	---	1	---	SPEED TO BE DETERMINED IN THE FIELD, MOUNT BELOW SIGN #177
178	"	W1-2L	30" X 30"	---	6.25	---	---	1	---	---	1	PART OF REMOVAL FOR SIGN #178A
178A	"	W13-1	18" X 18"	---	2.25	---	---	---	---	1	---	SPEED TO BE DETERMINED IN THE FIELD, MOUNT BELOW SIGN #178
178B	"	S3-51	48" X 24"	---	8.00	---	---	2	---	---	---	
178C	"	S57-51	30" X 15"	---	3.13	---	---	---	---	---	---	NEXT 8 MILES, MOUNT CENTERED BELOW SIGN #178B
PAGE SUBTOTALS				5.18	59.63	0	4	5	0	7	7	
UNDISTRIBUTED AMOUNT OF SCHOOL BUS STOP AHEADS (S3-1) - SIZE 36" X 36" - 10%					126.00			14				LOCATIONS TO BE DETERMINED IN THE FIELD, CONTACT REGION SIGNING STAFF
PROJECT TOTALS				475.14	1016.76	33	103	64	6	153	158	

FIELD OFFICE TYPE B 6520-03-71

LOCATION	642.5001 EACH
PROJECT	1
TOTAL	1

TRAFFIC CONTROL 6520-03-71	
CATEGORY 0010	
LOCATION	643.0100 EACH
PROJECT	1
TOTAL	1

TRAFFIC CONTROL SUMMARY

CATERGORY 0010											
LOCATION	APPROX. SERVICE PERIOD DAYS	643.0300 DRUMS		643.0420 BARRICADES TYPE III		643.0705 WARNING LIGHTS TYPE A		643.0900 SIGNS		S.D.D. REFERENCED	REMARKS
		NO. IN SERVICE	DAYS	NO. IN SERVICE	DAYS	NO. IN SERVICE	DAYS	NO. IN SERVICE	DAYS		
BEGIN PROJECT	106	-	-	2	212	2	212	3	318	SDD 15 C 2-5a DETAIL B	TWO BARRICADES, 2 W20-3, R11-4 ONLY
END PROJECT	106	-	-	2	212	2	212	3	318	SDD 15 C 2-5a DETAIL B	TWO BARRICADES, 2 W20-3, R11-4 ONLY
E MAPLE CT	106	-	-	2	212	2	212	2	212	SDD 15-C 3-2 DETAIL 4	1 W20-3, 1 R11-4, TWO BARRICADES ONLY
W MAPLE CT	106	-	-	2	212	2	212	2	212	SDD 15-C 3-2 DETAIL 4	1 W20-3, 1 R11-4, TWO BARRICADES ONLY
SOMMERS ST	106	-	-	2	212	2	212	2	212	SDD 15-C 3-2 DETAIL 4	1 W20-3, 1 R11-4, TWO BARRICADES ONLY
STONE BRIDGE RD	106	-	-	2	212	2	212	2	212	SDD 15-C 3-2 DETAIL 4	1 W20-3, 1 R11-4, TWO BARRICADES ONLY
KYSLEY RD	106	-	-	2	212	2	212	2	212	SDD 15-C 3-2 DETAIL 4	1 W20-3, 1 R11-4, TWO BARRICADES ONLY
KYSLEY RD	106	-	-	2	212	2	212	2	212	SDD 15-C 3-2 DETAIL 4	1 W20-3, 1 R11-4, TWO BARRICADES ONLY
CTH P	106	-	-	2	212	2	212	3	318	SDD 15-C 3-2 DETAIL 4	2 W20-3, 1 R11-4, TWO BARRICADES ONLY
KLINKER RD	106	-	-	2	212	2	212	3	318	SDD 15-C 3-2 DETAIL 4	2 W20-3, 1 R11-4, TWO BARRICADES ONLY
NEWLAND RD	106	-	-	2	212	2	212	3	318	SDD 15-C 3-2 DETAIL 4	2 W20-3, 1 R11-4, TWO BARRICADES ONLY
TRAPPERS LN	106	-	-	2	212	2	212	2	212	SDD 15-C 3-2 DETAIL 4	1 W20-3, 1 R11-4, TWO BARRICADES ONLY
DEERVIEW RD	106	-	-	2	212	2	212	3	318	SDD 15-C 3-2 DETAIL 4	2 W20-3, 1 R11-4, TWO BARRICADES ONLY
PROJECT 6520-20-00 SOUTH LIMITS	106	-	-	2	212	2	212	3	318	SDD 15-C 3-2 DETAIL 4	TWO BARRICADES, 2 W20-3, R11-4 ONLY
PROJECT 6520-20-00 NORTH LIMITS	106	-	-	2	212	2	212	3	318	SDD 15-C 3-2 DETAIL 4	TWO BARRICADES, 2 W20-3, R11-4 ONLY
SCHINKE RD	106	-	-	2	212	2	212	3	318	SDD 15-C 3-2 DETAIL 4	1 W20-3s, 1 R11-4, TWO BARRICADES ONLY
CTH F	106	-	-	4	424	4	424	4	424	SDD 15-C 3-2 DETAIL 3	
JOHNSON RD	106	-	-	2	212	2	212	3	318	SDD 15-C 3-2 DETAIL 4	2 W20-3s, 1 R11-4, TWO BARRICADES ONLY
CULVERT REPLACEMENTS	26	-	-	12	312	4	104	6	156		USE BARRICADE AND R11-3c AT LAST INTERSECTION ON BOTH SIDES; FIVE BARRICADES, R11-2, AND W20-3 AT EACH CULVERT ON EACH SIDE
CULVERT REPLACEMENTS	61	88	5368	-	-	-	-	44	2684		2 W8-7, FOUR DRUMS AT EACH CULVERT AFTER REPLACDEMENT IS COMPLETE UNTIL HMA SURFACE IS PLACED
DETOUR	106	-	-	2	212	-	-	-	-		SEE TRAFFIC CONTROL DETOUR FOR DETAILS
UNDISTRIBUTED	106	100	10600	10	1060	10	1060	5	530		ABOUT 10 BARRELS PER MILE
TOTAL		15968		5612		5192		8458			

TRAFFIC CONTROL DETOUR 6520-03-71	
CATEGORY 0010	
LOCATION	643.2000 EACH
PROJECT	1
TOTAL	1

TRAFFIC CONTROL DETOUR SIGNS, COVERING SIGNS AND PORTABLE CHANGABLE MESSAGE SIGNS

SIGN NO.	LOCATION	SIGN CODE	SIZE W X H	NUMBER IN SERVICE	APPROX. SERVICE PERIOD 106 DAYS	643.3000 DETOUR SIGNS DAYS	643.0420 BARRICADES TYPE III DAYS	643.0920 TRAFFIC CONTROL COVERING SIGNS TYPE II			643.1050 PORTABLE CHANGABLE MESSAGE SIGNS 7 DAYS	REMARKS
								EACH	NUMBER OF CYCLES	NUMBER OF SIGNS		
1	SOUTH PROJECT LIMITS			1	7	-	-	-	-	-	7	PRIOR TO START
2	MODIFY J1-1 (JCT 187)	M1-6	EXISTING	1	106	106	-	-	-	-	-	
	"	W20-2-A	48"x48"	1	106	106	-	-	-	-	-	
3	150' W OF PARK AVE. INTERSECTION ON STH 54	M4-8	24"x12"	1	106	106	-	-	-	-	-	
	"	M3-1	24"x12"	1	106	106	-	-	-	-	-	
	"	M1-6	24"x24"	1	106	106	-	-	-	-	-	187
	"	M1-6	21"x21"	1	106	106	-	-	-	-	-	AHEAD
4	D1-2 (LT-LEEMAN; GREEN BAY - TILT RT)			-	-	-	-	1	1	1	-	LT- LEEMAN
5	MODIFY J3-2 (N-187-LT; E-54-AH)	M4-8	24"x12"	1	106	106	-	-	-	-	-	
	"	M3-1	EXISTING	-	-	-	-	-	-	-	-	
	"	M1-6	EXISTING	-	-	-	-	-	-	-	-	187
	"	M6-1	21"x21"	1	106	106	-	-	-	-	-	
6	NE QUAD OF STH 187 & STH 54 INTERSECTION	R11-3	60"x30"	1	106	106	106	-	-	-	-	1/2 MILE
7	D2-2 (LEEMAN-10; HWY 156-15)			-	-	-	-	1	1	1	-	LEEMAN - 10, HWY 156 - 15
8	J4-1 (NORTH 187) ABOVE # 7			-	-	-	-	1	1	1	-	N-187
9	LT OF J4-1 (EAST-54)	M4-8	24"x12"	1	106	106	-	-	-	-	-	
	"	M3-1	24"x12"	1	106	106	-	-	-	-	-	
	"	M1-6	24"x24"	1	106	106	-	-	-	-	-	187
10	J3-2 (N-187-RT; W-54-TILT LT)			-	-	-	-	1	1	1	-	N-187-RT
11	D1-2 (TILT RT-NEW LONDON; RT-LEEMAN)			-	-	-	-	1	1	1	-	RT- LEEMAN
12	J2-2 (N-187- AH RT; W-54-AH TILT LT)			-	-	-	-	1	1	1	-	N-187-AH RT
13	MODIFY J1-1 (JCT 187)	W4-8-A	24"x18"	1	106	106	-	-	-	-	-	
	"	M1-6	EXISTING	-	-	-	-	-	-	-	-	187
14	150' W OF VAN PATTEN DR INTERSECTION ON STH 54	M4-8	24"x12"	1	106	106	-	-	-	-	-	
	"	M3-3	24"x12"	1	106	106	-	-	-	-	-	
	"	M1-6	24"x24"	1	106	106	-	-	-	-	-	187
15	150' E OF VAN PATTEN DR INTERSECTION ON STH 54	M4-8	24"x12"	1	106	106	-	-	-	-	-	
	"	M3-1	24"x12"	1	106	106	-	-	-	-	-	
	"	M1-6	24"x24"	1	106	106	-	-	-	-	-	187
16	LT OF M1-6 (54) @ CTH P	M4-8	24"x12"	1	106	106	-	-	-	-	-	
	"	M3-3	24"x12"	1	106	106	-	-	-	-	-	
	"	M1-6	24"x24"	1	106	106	-	-	-	-	-	187
17	LT OF M1-6 (54) @ CTH P	M4-8	24"x12"	1	106	106	-	-	-	-	-	
	"	M3-1	24"x12"	1	106	106	-	-	-	-	-	
	"	M1-6	24"x24"	1	106	106	-	-	-	-	-	187
18	ABOVE J2-2 (N-47-AH LT; S-47-AH RT)	M4-8	24"x12"	1	106	106	-	-	-	-	-	
	"	M3-1	24"x12"	1	106	106	-	-	-	-	-	
	"	M1-6	24"x24"	1	106	106	-	-	-	-	-	187
	"	M5-1-L	21"x21"	1	106	106	-	-	-	-	-	
19	75' W OF STH 47 INTERSECTION ON STH 54	M4-8	24"x12"	1	106	106	-	-	-	-	-	
	"	M3-1	24"x12"	1	106	106	-	-	-	-	-	
SUBTOTALS				32		3,286	106 **	6			7	

** FOR INFORMATIONAL PURPOSES ONLY, ADDITIONAL QUANTITIES SHOWN ELSEWHERE

TRAFFIC CONTROL DETOUR SIGNS, COVERING SIGNS AND PORTABLE CHANGLEABLE MESSAGE SIGNS

SIGN NO.	LOCATION	SIGN CODE	SIZE W X H	NUMBER IN SERVICE	APPROX. SERVICE PERIOD 87 DAYS	643.3000 DETOUR SIGNS DAYS	643.0420 BARRICADES TYPE III DAYS	643.0920 TRAFFIC CONTROL COVERING SIGNS TYPE II			643.1050 PORTABLE CHANGEABLE MESSAGE SIGNS 7 DAYS	REMARKS
								EACH	NUMBER OF CYCLES	NUMBER OF SIGNS		
	"	M1-6	24"x24"	1	106	106	-	-	-	-	-	187
	"	M6-1	21"x21"	1	106	106	-	-	-	-	-	LEFT
20	300' E OF SIGNAL AHEAD SIGN	M1-6	24"x24"	1	106	106	-	-	-	-	-	187
	"	W20-2-A	48"x48"	1	106	106	-	-	-	-	-	
21	ABOVE J2-2 (S-47-AH LT; N-47-AH RT)	M4-8	24"x12"	1	106	106	-	-	-	-	-	
	"	M3-1	24"x12"	1	106	106	-	-	-	-	-	
	"	M1-6	24"x24"	1	106	106	-	-	-	-	-	187
	"	M5-1-R	21"x21"	1	106	106	-	-	-	-	-	
22	ABOVE D1-3 (AH-NEW LONDON; LT-APPLETON; RT-BONDUEL)	M4-8	24"x12"	1	106	106	-	-	-	-	-	
	"	M3-1	24"x12"	1	106	106	-	-	-	-	-	
	"	M1-6	24"x24"	1	106	106	-	-	-	-	-	187
	"	M6-1	21"x21"	1	106	106	-	-	-	-	-	RIGHT
23	200' W OF STH 47 INTERSECTION ON STH 54	M4-8	24"x12"	1	106	106	-	-	-	-	-	
	"	M3-3	24"x12"	1	106	106	-	-	-	-	-	
	"	M1-6	24"x24"	1	106	106	-	-	-	-	-	187
24	100' N OF STH 54 INTERSECTION ON STH 47	M4-8	24"x12"	1	106	106	-	-	-	-	-	
	"	M3-1	24"x12"	1	106	106	-	-	-	-	-	
	"	M1-6	24"x24"	1	106	106	-	-	-	-	-	187
25	100' N OF STH 54 INTERSECTION ON STH 47	M4-8	24"x12"	1	106	106	-	-	-	-	-	
	"	M3-3	24"x12"	1	106	106	-	-	-	-	-	
	"	M1-6	24"x24"	1	106	106	-	-	-	-	-	187
	"	M6-1	21"x21"	1	106	106	-	-	-	-	-	RIGHT
26	200' W OF STH 47 INTERSECTION ON STH 54	M4-8	24"x12"	1	106	106	-	-	-	-	-	
	"	M3-3	24"x12"	1	106	106	-	-	-	-	-	
	"	M1-6	24"x24"	1	106	106	-	-	-	-	-	187
	"	M5-1-R	21"x21"	1	106	106	-	-	-	-	-	
27	200' S OF BRUSEWITZ RD INTERSECTION OF STH 47	M4-8	24"x12"	1	106	106	-	-	-	-	-	
	"	M3-3	24"x12"	1	106	106	-	-	-	-	-	
	"	M1-6	24"x24"	1	106	106	-	-	-	-	-	187
28	200' N OF BRUSEWITZ RD INTERSECTION OF STH 47	M4-8	24"x12"	1	106	106	-	-	-	-	-	
	"	M3-1	24"x12"	1	106	106	-	-	-	-	-	
	"	M1-6	24"x24"	1	106	106	-	-	-	-	-	187
29	200' S OF DEER VIEW RD INTERSECTION OF STH 47	M4-8	24"x12"	1	106	106	-	-	-	-	-	
	"	M3-3	24"x12"	1	106	106	-	-	-	-	-	
	"	M1-6	24"x24"	1	106	106	-	-	-	-	-	187
30	200' N OF DEER VIEW RD INTERSECTION OF STH 47	M4-8	24"x12"	1	106	106	-	-	-	-	-	
	"	M3-1	24"x12"	1	106	106	-	-	-	-	-	
	"	M1-6	24"x24"	1	106	106	-	-	-	-	-	187
31	RT OF M1-6 (47) @ CTH VV	M4-8	24"x12"	1	106	106	-	-	-	-	-	
	"	M3-3	24"x12"	1	106	106	-	-	-	-	-	
	"	M1-6	24"x24"	1	106	106	-	-	-	-	-	187
SUBTOTALS				41		4,346	0 **	0			0	

** FOR INFORMATIONAL PURPOSES ONLY, ADDITIONAL QUANTITIES SHOWN ELSEWHERE

TRAFFIC CONTROL DETOUR SIGNS, COVERING SIGNS AND PORTABLE CHANGLEABLE MESSAGE SIGNS

SIGN NO.	LOCATION	SIGN CODE	SIZE	NUMBER IN	APPROX. SERVICE PERIOD	643.3000 DETOUR SIGNS	643.0420 BARRICADES TYPE III	643.0920 TRAFFIC CONTROL COVERING SIGNS TYPE II			643.1050 PORTABLE CHANGEABLE MESSAGE SIGNS 7 DAYS	REMARKS
									NUMBER OF CYCLES	NUMBER OF SIGNS		
			W X H	SERVICE	87 DAYS	DAYS	DAYS	EACH				
32	RT OF M1-6 (47) @ CTH VV	M4-8	24"x12"	1	106	106	-	-	-	-	-	
	"	M3-1	24"x12"	1	106	106	-	-	-	-	-	
	"	M1-6	24"x24"	1	106	106	-	-	-	-	-	187
33	RT OF M1-6 (47) @ CTH F	M4-8	24"x12"	1	106	106	-	-	-	-	-	
	"	M3-3	24"x12"	1	106	106	-	-	-	-	-	
	"	M1-6	24"x24"	1	106	106	-	-	-	-	-	187
34	RT OF M1-6 (47) @ CTH F	M4-8	24"x12"	1	106	106	-	-	-	-	-	
	"	M3-1	24"x12"	1	106	106	-	-	-	-	-	
	"	M1-6	24"x24"	1	106	106	-	-	-	-	-	187
35	200' S OF STH 156 (EAST) INTERSECTION OF STH 47	M4-8	24"x12"	1	106	106	-	-	-	-	-	
	"	M3-3	24"x12"	1	106	106	-	-	-	-	-	
	"	M1-6	24"x24"	1	106	106	-	-	-	-	-	187
36	200' N OF STH 156 (EAST) INTERSECTION OF STH 47	M4-8	24"x12"	1	106	106	-	-	-	-	-	
	"	M3-1	24"x12"	1	106	106	-	-	-	-	-	
	"	M1-6	24"x24"	1	106	106	-	-	-	-	-	187
37	RT OF J2-1 (W-156-AH LT)	M4-8	24"x12"	1	106	106	-	-	-	-	-	
	"	M3-1	24"x12"	1	106	106	-	-	-	-	-	
	"	M1-6	24"x24"	1	106	106	-	-	-	-	-	187
	"	M5-1-L	21"x21"	1	106	106	-	-	-	-	-	
38	RT OF J3-1 (W-156-LT)	M4-8	24"x12"	1	106	106	-	-	-	-	-	
	"	M3-1	24"x12"	1	106	106	-	-	-	-	-	
	"	M1-6	24"x24"	1	106	106	-	-	-	-	-	187
	"	M6-1	21"x21"	1	106	106	-	-	-	-	-	LEFT
39	ON BACK OF J3-2 (E-156-AH; W-156-RT)	M4-8	24"x12"	1	106	106	-	-	-	-	-	
	"	M3-1	24"x12"	1	106	106	-	-	-	-	-	
	"	M1-6	24"x24"	1	106	106	-	-	-	-	-	187
	"	M6-1	21"x21"	1	106	106	-	-	-	-	-	LEFT
40	300' N J1-1 (JCT 156)	M1-6	24"x24"	1	106	106	-	-	-	-	-	187
	"	W20-2-A	48"x48"	1	106	106	-	-	-	-	-	
41	LT OF D1-3 (AH-BLACK CREEK; NAVARINO, CLINTONVILLE-RT)	M4-8	24"x12"	1	106	106	-	-	-	-	-	
	"	M3-3	24"x12"	1	106	106	-	-	-	-	-	
	"	M1-6	24"x24"	1	106	106	-	-	-	-	-	187
	"	M6-1	21"x21"	1	106	106	-	-	-	-	-	AHEAD
42	200' S OF STH 156 (WEST) INTERSECTION OF STH 47	M4-8	24"x12"	1	106	106	-	-	-	-	-	
	"	M3-3	24"x12"	1	106	106	-	-	-	-	-	
	"	M1-6	24"x24"	1	106	106	-	-	-	-	-	187
	"	M6-1	21"x21"	1	106	106	-	-	-	-	-	AHEAD
43	LT OF J4-1 (WEST-156)	M4-8	24"x12"	1	106	106	-	-	-	-	-	
	"	M3-1	24"x12"	1	106	106	-	-	-	-	-	
	"	M1-6	24"x24"	1	106	106	-	-	-	-	-	187
44	RT OF J3-2 (47-DBL ARROW; 156-RT)	M4-8	24"x12"	1	106	106	-	-	-	-	-	
SUBTOTALS				41		4,346	0 **	0			0	

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TRAFFIC CONTROL DETOUR SIGNS, COVERING SIGNS AND PORTABLE CHANGABLE MESSAGE SIGNS

SIGN NO.	LOCATION	SIGN CODE	SIZE	NUMBER IN	APPROX. SERVICE PERIOD	643.3000 DETOUR SIGNS	643.0420 BARRICADES TYPE III	643.0920 TRAFFIC CONTROL COVERING SIGNS TYPE II			643.1050 PORTABLE CHANGABLE MESSAGE SIGNS 7 DAYS	REMARKS
									NUMBER OF CYCLES	NUMBER OF SIGNS		
			W X H	SERVICE	87 DAYS	DAYS	DAYS	EACH				
	"	M3-3	24"x12"	1	106	106	-	-	-	-	-	
	"	M1-6	24"x24"	1	106	106	-	-	-	-	-	187
		M6-1	21"x21"	1	106	106	-	-	-	-	-	RIGHT
45	RT OF J2-1 (156-AH RT)	M4-8	24"x12"	1	106	106	-	-	-	-	-	
	"	M3-3	24"x12"	1	106	106	-	-	-	-	-	
	"	M1-6	24"x24"	1	106	106	-	-	-	-	-	187
	"	M5-1-R	21"x21"	1	106	106	-	-	-	-	-	
46	200' E OF LESSOR/NAVARINO RD INTERSECTION OF STH 156	M4-8	24"x12"	1	106	106	-	-	-	-	-	
	"	M3-3	24"x12"	1	106	106	-	-	-	-	-	
	"	M1-6	24"x24"	1	106	106	-	-	-	-	-	187
47	200' W OF LESSOR/NAVARINO RD INTERSECTION OF STH 156	M4-8	24"x12"	1	106	106	-	-	-	-	-	
	"	M3-1	24"x12"	1	106	106	-	-	-	-	-	
	"	M1-6	24"x24"	1	106	106	-	-	-	-	-	187
48	200' E OF J & H RD INTERSECTION OF STH 156	M4-8	24"x12"	1	106	106	-	-	-	-	-	
	"	M3-3	24"x12"	1	106	106	-	-	-	-	-	
	"	M1-6	24"x24"	1	106	106	-	-	-	-	-	187
49	200' W OF J & H RD INTERSECTION OF STH 156	M4-8	24"x12"	1	106	106	-	-	-	-	-	
	"	M3-1	24"x12"	1	106	106	-	-	-	-	-	
	"	M1-6	24"x24"	1	106	106	-	-	-	-	-	187
50	MODIFY J1-1 (JCT 187)	M4-8-A	24"x18"	1	106	106	-	-	-	-	-	
	"	M1-6	EXISTING	-	-	-	-	-	-	-	-	
51	D1-3 (LT-LEEMAN, SHIOCTON; CLINTONVILLE-RT)			-	-	-	-	1	1	1	-	LT-LEEMAN, SHIOCTON
52	J3-2 (S-187-LT; W-156-RT)			-	-	-	-	1	1	1	-	S-187-LT
53	MODIFY J1-1 (JCT 187)	M1-6	24"x24"	1	106	106	-	-	-	-	-	187
	"	W20-2-A	48"x48"	1	106	106	-	-	-	-	-	
54	MODIFY J2-2 (E-156-AH LT; S-187-AH)	M4-8	24"x12"	1	106	106	-	-	-	-	-	
	"	M3-3	EXISTING	-	-	-	-	-	-	-	-	
	"	M1-6	EXISTING	-	-	-	-	-	-	-	-	187
	"	M5-1-L	21"x21"	1	106	106	-	-	-	-	-	
55	MODIFY J3-2 (E-156-LT; S-187-AH)	M4-8	24"x12"	1	106	106	-	-	-	-	-	
		M3-3	EXISTING	-	-	-	-	-	-	-	-	
		M1-6	EXISTING	-	-	-	-	-	-	-	-	187
		M6-1	21"x21"	1	106	106	-	-	-	-	-	LEFT
56	J4-1 (SOUTH 187)			-	-	-	-	1	1	1	-	SOUTH 187
57	SW QUAD OF STH 187 & STH 156 INTERSECTION	R11-3	60"x30"	1	106	106	106	-	-	-	-	2 1/2 MILES
58	NORTH PROJECT LIMITS			1	7	-	-	-	-	-	7	PRIOR TO CONST START
SUBTOTALS				28		2,862	106	3			7	
PROJECT TOTALS				142		14,840	212 **	9			14	

** FOR INFORMATIONAL PURPOSES ONLY, ADDITIONAL QUANTITIES SHOWN ELSEWHERE

PAVEMENT MARKING SUMMARY

CATEGORY 0010											
APPROXIMATE STATION TO APPROXIMATE STATION			LOCATION	646.0156	647.0606	649.0100		646.2304.S			REMARKS
				EPOXY 18-INCH WHITE	ISLAND NOSE	TEMPORARY PAVEMENT MARKING 4-INCH YELLOW		PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH			
				SOLID LF	EPOXY EACH	SOLID LF	DASHED LF	YELLOW SOLID LF	YELLOW DASHED LF	WHITE SOLID LF	
61+43	-	434+95	STH 187 NB EDGELINE RT	-	-	-	-	-	-	36850	BEGIN TO PROJECT 6520-20-00
478+45	-	623+60	STH 187 NB EDGELINE RT	-	-	-	-	-	-	14150	PROJECT 6520-20-00 TO END
61+43	-	434+95	STH 187 SB EDGELINE RT	-	-	-	-	-	-	37150	BEGIN TO PROJECT 6520-20-00
478+45	-	623+60	STH 187 SB EDGELINE RT	-	-	-	-	-	-	14200	PROJECT 6520-20-00 TO END
61+43	-	62+49	STH 187 CENTERLINE	-	-	212	-	212	-	-	BEGIN PROJECT
62+49	-	65+13	STH 187 CENTERLINE	-	-	265	23	265	66	-	
65+13	-	103+15	STH 187 CENTERLINE	-	-	-	306	-	950	-	
103+15	-	111+59	STH 187 CENTERLINE	-	-	846	69	846	211	-	
111+59	-	113+18	STH 187 CENTERLINE	-	-	318	-	318	-	-	
113+18	-	121+63	STH 187 CENTERLINE	-	-	846	69	846	211	-	
121+63	-	139+58	STH 187 CENTERLINE	-	-	-	145	-	449	-	
139+58	-	148+03	STH 187 CENTERLINE	-	-	846	69	846	211	-	
148+03	-	151+19	STH 187 CENTERLINE	-	-	635	-	635	-	-	
151+19	-	159+11	STH 187 CENTERLINE	-	-	793	64	793	198	-	
159+11	-	192+91	STH 187 CENTERLINE	-	-	-	271	-	845	-	
192+91	-	199+77	STH 187 CENTERLINE	-	-	687	56	687	172	-	
199+77	-	201+35	STH 187 CENTERLINE	-	-	-	13	-	40	-	
201+35	-	207+69	STH 187 CENTERLINE	-	-	634	51	634	158	-	
207+69	-	210+86	STH 187 CENTERLINE	-	-	-	25	-	79	-	
210+86	-	217+72	STH 187 CENTERLINE	-	-	686	55	686	172	-	
217+72	-	219+31	STH 187 CENTERLINE	-	-	-	13	-	40	-	
219+31	-	225+64	STH 187 CENTERLINE	-	-	634	51	634	158	-	
225+64	-	226+70	STH 187 CENTERLINE	-	-	-	8	-	26	-	
226+70	-	234+62	STH 187 CENTERLINE	-	-	793	63	793	198	-	
234+62	-	278+44	STH 187 CENTERLINE	-	-	8766	-	8766	-	-	
278+44	-	286+89	STH 187 CENTERLINE	-	-	846	68	846	211	-	
286+89	-	287+95	STH 187 CENTERLINE	-	-	-	8	-	26	-	
287+95	-	296+39	STH 187 CENTERLINE	-	-	846	68	846	211	-	
296+39	-	303+79	STH 187 CENTERLINE	-	-	1478	-	1478	-	-	
303+79	-	311+71	STH 187 CENTERLINE	-	-	792	63	792	198	-	
311+71	-	314+35	STH 187 CENTERLINE	-	-	-	21	-	66	-	
314+35	-	323+32	STH 187 CENTERLINE	-	-	898	73	898	224	-	
323+32	-	435+79	STH 187 CENTERLINE	-	-	22494	-	22494	-	-	
435+79	-	478+55	STH 187 CENTERLINE	-	-	-	-	-	-	-	PROJECT 6520-20-00
478+55	-	483+31		-	-	475	38	475	119	-	
SUBTOTALS				0	0	44790	1690	44790	5240	102350	CONTINUED ON NEXT PAGE...

PAVEMENT MARKING SUMMARY CONTINUED

CATEGORY 0010

APPROXIMATE STATION TO APPROXIMATE STATION			LOCATION	646.0156 EPOXY 18-INCH WHITE SOLID LF	647.0606 ISLAND NOSE EPOXY EACH	649.0100		646.2304.S			REMARKS
						TEMPORARY PAVEMENT MARKING 4-INCH YELLOW SOLID LF DASHED LF		PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH			
								YELLOW		WHITE SOLID LF	
483+31	-	496+51	STH 187 CENTERLINE	-	-	2641	-	2641	-	-	
496+51	-	503+37	STH 187 CENTERLINE	-	-	687	55	687	172	-	
503+37	-	504+43	STH 187 CENTERLINE	-	-	212	-	212	-	-	
504+43	-	512+87	STH 187 CENTERLINE	-	-	846	68	846	211	-	
512+87	-	544+55	STH 187 CENTERLINE	-	-	6337	-	6337	-	-	
544+55	-	553+00	STH 187 CENTERLINE	-	-	846	68	846	211	-	
553+00	-	556+70	STH 187 CENTERLINE	-	-	-	30	-	92	-	
556+70	-	563+03	STH 187 CENTERLINE	-	-	635	51	635	158	-	
563+03	-	564+09	STH 187 CENTERLINE	-	-	-	-	-	-	-	CTH F
564+09	-	570+43	STH 187 CENTERLINE	-	-	1267	-	1267	-	-	
570+43	-	578+35	STH 187 CENTERLINE	-	-	792	63	792	198	-	
578+35	-	595+77	STH 187 CENTERLINE	-	-	-	139	-	436	-	
595+77	-	604+22	STH 187 CENTERLINE	-	-	845	68	845	211	-	
604+22	-	622+33	STH 187 CENTERLINE	-	-	3622	-	3622	-	-	END PROJECT
61+43			STH 187 SB	12	1	-	-	-	-	-	STH 54 INTERSECTION
SUBTOTALS				12	1	18730	541	18730	1690	0	
PROJECT TOTALS				12	1	65750		172800			

LOCATING NO-PASSING ZONES

CATEGORY 0010

LOCATION		648.0100
PROJECT		MI
TOTAL		9.8
		9.8

CONSTRUCTION STAKING SUMMARY

CATEGORY 0010

STATION TO STATION			LOCATION	650.6000 CONSTRUCTION STAKING PIPE CULVERTS EACH	650.8000 CONSTRUCTION STAKING RESURFACING REFERENCE LF	650.9910 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL LS	650.9920 CONSTRUCTION STAKING SLOPE STAKES LF	REMARKS
61+43	-	434+95	STH 187	-	37355	-	-	
478+45	-	623+60	STH 187	-	14515	-	-	
90+50	-	91+50	STH 187 RT & LT	-	-	-	200	CROSSPIPE
98+50	-	100+00	STH 187 RT & LT	-	-	-	300	CROSSPIPE
106+00	-	107+00	STH 187 RT & LT	-	-	-	200	CROSSPIPE
20+60	-	22+34	STH 187 RT	-	-	-	180	STONEBRIDGE BEAM GUARD
112+01	-	114+37	STH 187 LT	-	-	-	240	STONEBRIDGE BEAM GUARD
114+37	-	119+97	STH 187 RT & LT	-	-	-	1120	STONEBRIDGE BEAM GUARD
119+97	-	123+52	STH 187 RT	-	-	-	360	STONEBRIDGE BEAM GUARD
123+52	-	123+91	STH 187 RT	-	-	-	40	SHIOC RIVER BEAM GUARD
123+91	-	129+46	STH 187 RT & LT	-	-	-	1110	SHIOC RIVER BEAM GUARD
129+46	-	129+94	STH 187 LT	-	-	-	50	SHIOC RIVER BEAM GUARD
168+50	-	170+00	STH 187 RT & LT	-	-	-	300	CROSSPIPE
180+50	-	184+00	STH 187 RT & LT	-	-	-	700	CROSSPIPE
209+50	-	211+50	STH 187 RT & LT	-	-	-	400	CROSSPIPE
219+00	-	220+50	STH 187 RT & LT	-	-	-	300	CROSSPIPE
223+00	-	225+00	STH 187 RT & LT	-	-	-	400	CROSSPIPE
258+00	-	259+50	STH 187 RT & LT	-	-	-	300	CROSSPIPE
265+00	-	266+50	STH 187 RT & LT	-	-	-	300	CROSSPIPE
272+00	-	273+50	STH 187 RT & LT	-	-	-	300	CROSSPIPE
288+50	-	290+50	STH 187 RT & LT	-	-	-	400	CROSSPIPE
318+00	-	319+50	STH 187 RT & LT	-	-	-	300	CROSSPIPE
332+50	-	334+00	STH 187 RT & LT	-	-	-	300	CROSSPIPE
389+50	-	391+50	STH 187 RT & LT	-	-	-	400	CROSSPIPE
488+00	-	490+00	STH 187 RT & LT	-	-	-	400	CROSSPIPE
506+50	-	508+50	STH 187 RT & LT	-	-	-	400	CROSSPIPE
538+67	-	544+70	STH 187 RT	-	-	-	600	PIPE BEAM GUARD/CROSSPIPE
539+26	-	542+38	STH 187 LT	-	-	-	310	PIPE BEAM GUARD/CROSSPIPE
571+00	-	573+00	STH 187 RT & LT	-	-	-	400	CROSSPIPE
597+00	-	599+00	STH 187 RT & LT	-	-	-	400	CROSSPIPE
605+00	-	606+50	STH 187 RT & LT	-	-	-	300	CROSSPIPE
CROSSPIPES				24	-	-	-	SEE CROSS PIPE SUMMARY FOR DETAILS
PROJECT				-	-	1	-	
TOTALS				24	51870	1	11010	

CATEGORY 0010			
SAWING SUMMARY			
APPROXIMATE STATION	LOCATION	690.0150 SAWING ASPHALT LF	REMARKS
61+72	STH 187	134	RECONSTRUCT LIMITS
75+10	STH 187 RT	31	EAST MAPLE COURT
76+10	STH 187 LT	24	WEST MAPLE COURT
79+20	STH 187 RT	28	SOMMERS STREET
114+23	STH 187 RT	32	STONEBRIDGE ROAD
137+00	STH 187 LT	25	KYSLEY ROAD (SOUTH)
146+88	STH 187 LT	24	KYSLEY ROAD (NORTH)
168+17	STH 187 RT	34	CTH P
292+90	STH 187 RT	45	KLINKER ROAD
339+56	STH 187 RT	23	NEWLAND ROAD
434+95	STH 187	22	PROJECT 6520-03-71 LIMITS NORTH
478+45	STH 187	22	PROJECT 6520-03-71 LIMITS SOUTH
411+09	STH 187 RT	32	DEERVIEW ROAD
510+02	STH 187 RT	24	SCHINKE ROAD
563+78	STH 187 RT	39	CTH F
563+78	STH 187 LT	39	CTH F
603+96	STH 187 RT	20	JOHNSON ROAD
624+64	STH 187	22	RECONSTRUCT LIMITS
	DRIVEWAYS	1343	SEE DRIVEWAY SUMMARY FOR DETAILS
	CULVERT REPLACEMENTS	968	SEE CULVERT REPLACEMENT SUMMARY FOR DETAILS
TOTAL		2930	

CATEGORY 0010		
REMOVING CONCRETE POLE		
STATION	LOCATION	SPV.0060.01 EACH
616+82	STH 187 RT	1
TOTAL		1

CATEGORY 0010			
PRIVATE WATERLINE EXPLORATION			
STATION TO STATION	LOCATION	SPV.0090.01 LF	REMARKS
544+00 - 546+50	STH 187	350	LINE RUNS FROM HOUSE AT N9144 TO THE NORTHWEST
TOTAL		350	

COLD IN PLACE RECYCLING (CIR) PAVEMENT PARTIAL DEPTH SUMMARY						
CATEGORY 0010						
				SPV.0180.01 COLD IN PLACE RECYCLING (CIR) PAVEMENT PARTIAL DEPTH	SPV.0195.01 ASPHALT STABILIZING AGENT	
STATION	TO	STATION	LOCATION	SY	TON	REMARKS
61+72	-	434+95	STH 187	91665	308	MAINLINE
478+45	-	624+64	STH 187	35735	120	MAINLINE
TOTAL				127400	428	

SCHEDULE OF LANDS & INTERESTS REQUIRED

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W NEW ACRES	R/W EXISTING ACRES	R/W TOTAL ACRES	TLE ACRES
8	WILLIAM J. & GAIL A. SCHMIDT	FEE & TLE	0.28	0.35	0.63	0.03
9	ERIC W. & BROOKE L. SCHMIDT	FEE & TLE	0.02	0.09	0.11	0.06
11	STEVEN L. & JULIE A. ALLEN	FEE	0.05	0.06	0.11	---

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

UTILITY INTERESTS REQUIRED

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED
100	WISCONSIN ELECTRIC POWER COMPANY (WEPCCO)	RELEASE OF RIGHTS

PLAT LOCATION



LOCATION SKETCH NOT TO SCALE

TRANSPORTATION PROJECT PLAT NO: 6520-03-21 - 4.01

PART OF OUTLOT 1, LOT 1 AND LOT 2, CERTIFIED SURVEY MAP NO. 4801, RECORDED IN VOLUME 27 OF CERTIFIED SURVEY MAPS, PAGE 4801, AS DOCUMENT NO. 1610397 LOCATED IN AND INCLUDING UNPLATTED LANDS IN GOVERNMENT LOT 6; ALSO PART OF GOVERNMENT LOT 5, ALL LOCATED IN SECTION 21, TOWNSHIP 23 NORTH, RANGE 16 EAST, TOWN OF BOVINA, OUTAGAMIE COUNTY, WISCONSIN.

RELOCATION ORDER STH 187 OUTAGAMIE 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 NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTIONS 84.02 (3), 84.09 AND 84.30, 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 NAMED 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 SUBSECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

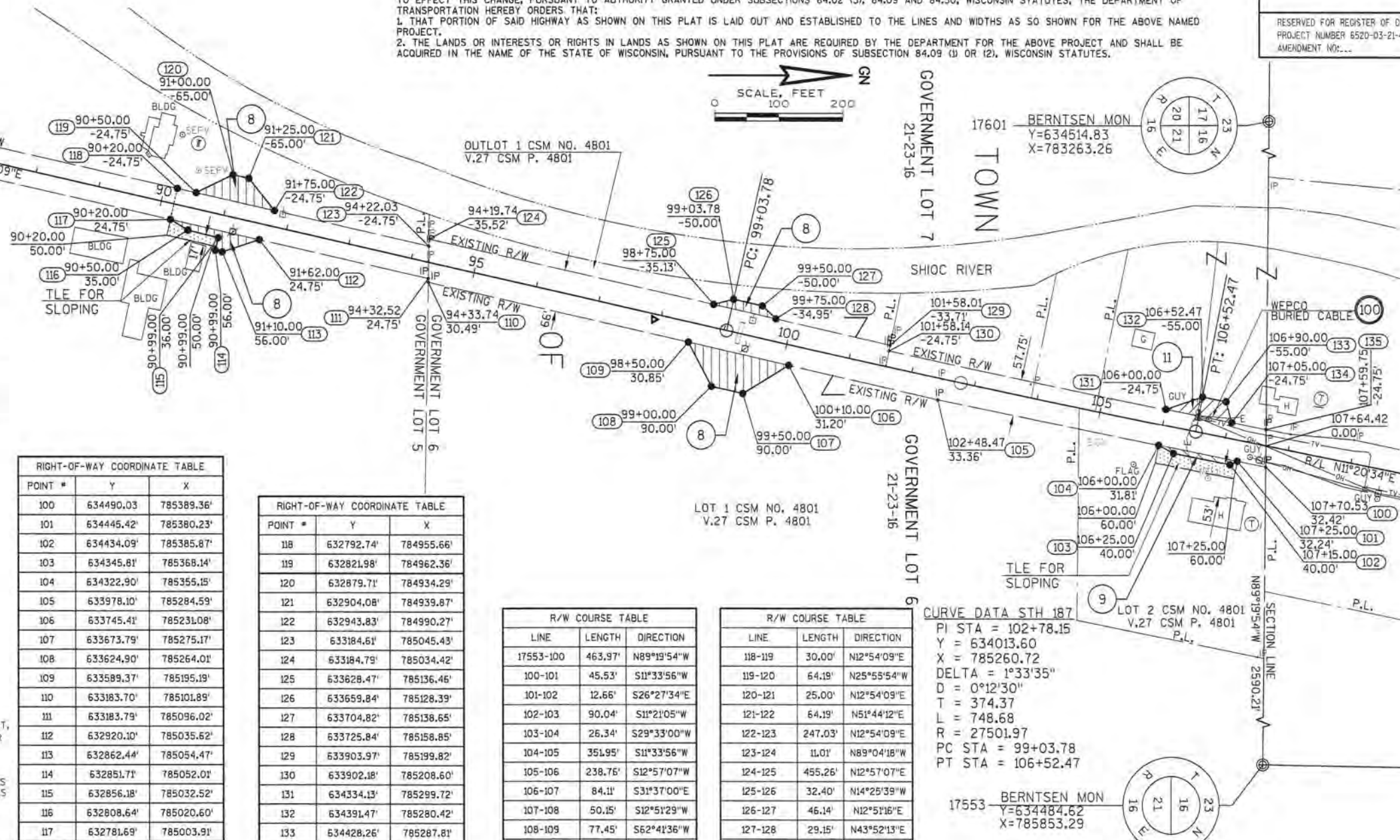
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Fee \$25.00 County OUTAGAMIE State WI

SARAH R VAN CAMP

REGISTER OF DEEDS

This document is a true and correct copy of the original document as recorded in the public records of the State of Wisconsin.

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 6520-03-21-4.01
AMENDMENT NO.



POINT #	Y	X
100	634490.03	785389.36'
101	634445.42'	785380.23'
102	634434.09'	785385.87'
103	634345.81'	785368.14'
104	634322.90'	785355.15'
105	633978.10'	785284.59'
106	633745.41'	785231.08'
107	633673.79'	785275.17'
108	633624.90'	785264.01'
109	633589.37'	785195.19'
110	633183.70'	785101.89'
111	633183.79'	785096.02'
112	632920.10'	785035.62'
113	632862.44'	785054.47'
114	632851.71'	785052.01'
115	632856.18'	785032.52'
116	632808.64'	785020.60'
117	632781.69'	785003.91'

POINT #	Y	X
118	632792.74'	784955.66'
119	632821.98'	784962.36'
120	632879.71'	784934.29'
121	632904.08'	784939.87'
122	632943.83'	784990.27'
123	633184.61'	785045.43'
124	633184.79'	785034.42'
125	633628.47'	785136.46'
126	633659.84'	785128.39'
127	633704.82'	785138.65'
128	633725.84'	785158.85'
129	633903.97'	785199.82'
130	633902.18'	785208.60'
131	634334.13'	785299.72'
132	634391.47'	785280.42'
133	634428.26'	785287.81'
134	634437.02'	785320.41'
135	634490.71'	785331.18'

LINE	LENGTH	DIRECTION
17553-100	463.97'	N89°19'54"W
100-101	45.53'	S11°33'56"W
101-102	12.66'	S26°27'34"E
102-103	90.04'	S11°21'05"W
103-104	26.34'	S29°33'00"W
104-105	351.95'	S11°33'56"W
105-106	238.75'	S12°57'07"W
106-107	84.11'	S31°37'00"E
107-108	50.15'	S12°51'29"W
108-109	77.45'	S62°41'36"W
109-110	416.26'	S12°57'07"W
110-111	5.87'	N89°04'18"W
111-112	270.52'	S12°54'09"W
112-113	60.67'	S18°06'06"E
113-114	11.00'	S12°54'09"W
114-115	20.00'	N77°05'51"W
115-116	49.01'	S14°04'18"W
116-117	31.70'	S31°45'58"W
117-118	49.50'	N77°05'51"W

LINE	LENGTH	DIRECTION
118-119	30.00'	N12°54'09"E
119-120	64.19'	N25°55'54"W
120-121	25.00'	N12°54'09"E
121-122	64.19'	N51°44'12"E
122-123	247.03'	N12°54'09"E
123-124	11.01'	N89°04'18"W
124-125	455.26'	N12°57'07"E
125-126	32.40'	N14°25'39"W
126-127	46.14'	N12°51'16"E
127-128	29.15'	N43°52'13"E
128-129	182.79'	N12°57'07"E
129-130	8.96'	S78°26'04"E
130-131	SEE CURVE TABLE	
131-132	60.50'	N18°36'10"W
132-133	37.53'	N11°20'34"E
133-134	33.76'	N74°58'03"E
134-135	54.75'	N11°20'34"E
135-100	58.18'	S69°19'54"E

CURVE DATA STH 187
PI STA = 102+78.15
Y = 634013.60
X = 785260.72
DELTA = 1°33'35"
D = 0°12'30"
T = 374.37
L = 748.68
R = 27501.97
PC STA = 99+03.78
PT STA = 106+52.47

17553 BERNTSEN MON
Y=634484.62
X=785853.29

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATES OUTAGAMIE COUNTY ZONE, NAD83 (2007) IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICALLY 1" X 24" IRON PIPE) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

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

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

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: EXISTING HIGHWAY RIGHT-OF-WAY FOR STH 187 AND SIDE ROADS ESTABLISHED FROM TRANSPORTATION PROJECT PLAT 6520-03-00 - 4.03 AND 6520-03-00 - 4.04.

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.

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO NEW REFERENCE LINES FEE TITLE TO ALL THOSE LANDS OF THE GRANTOR CURRENTLY USED FOR HIGHWAY PURPOSES, DESIGNATED AS EXISTING RIGHT OF WAY, WHETHER ACQUIRED BY SEPARATE CONVEYANCE OR OTHERWISE, BOUND BY THE TRAVERSE OF THE COURSE TABLE OF NEW RIGHT OF WAY AS SHOWN ON THE SAID TRANSPORTATION PLAT.

CONVENTIONAL ABBREVIATIONS

ACCESS POINT / DRIVEWAY CONNECTION	AP	RELEASE OF RIGHTS REMAINING	ROR	FOUND IRON PIPE/PIN	IF
ACCESS RIGHTS	AR	RIGHT-OF-WAY	R/W	R/W MONUMENT	R/M
ACRES	AC	SECTION	SEC.	R/W STANDARD	R/W
AND OTHERS	ET. AL.	STATION	STA.	SIGN	SIGN
CENTERLINE	C/L	TEMPORARY LIMITED EASEMENT	TLE	SECTION CORNER MONUMENT	SCM
CERTIFIED SURVEY MAP	CSM	VOLUME	V.	SECTION CORNER SYMBOL	SCS
CORNER	COR.				
DOCUMENT	DOC.				
EASEMENT	EASE.				
HIGHWAY EASEMENT	H.E.				
LAND CONTRACT	LC				
MONUMENT	MON.				
PAGE	PAGE				
PERMANENT LIMITED EASEMENT	PLE				
PROPERTY LINE	PL				
RECORDED AS	(100)				
REFERENCE LINE	R/L				

CONVENTIONAL SYMBOLS

PROPOSED R/W LINE	---
EXISTING H.E. LINE	---
PROPERTY LINE	---
LOT & TIE LINES	---
SLOPE INTERCEPTS	---
CORPORATE LIMITS	---
ACCESS RESTRICTED (BY PREVIOUS ACQUISITION/CONTROL)	---
ACCESS RESTRICTED (BY STATUTORY AUTHORITY)	---
NO ACCESS	---
SECTION LINE	---
QUARTER LINE	---
SIXTEENTH LINE	---
EXISTING CENTERLINE	---
PROPOSED REFERENCE LINE	---
PARALLEL OFFSET	---

CONVENTIONAL UTILITY SYMBOLS

WATER	---
GAS	---
TELEPHONE	---
OVERHEAD TRANSMISSION LINES	---
ELECTRIC	---
CABLE TELEVISION	---
FIBER OPTIC	---
SANITARY SEWER	---
STORM SEWER	---
POWER POLE	---
TELEPHONE POLE	---
TELEPHONE PEDESTAL	---
ELECTRIC TOWER	---

CURVE TABLE

CURVE	DELTA	LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
130-131	0°55'14"	441.46'	27477.22'	N11°54'44"E	441.46'

AYRES ASSOCIATES

I, JASON M. INGRAM, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.035 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 6520-03-21 - 4.01 AND THAT SAID PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.



SIGNATURE *J. Ingram* DATE 12-4-13
PRINTED NAME JASON M. INGRAM
REGISTRATION NUMBER S-2630
THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION
SIGNATURE *Curt Van Eri* DATE 12-6-13
PRINTED NAME CURT VAN ERI 86

SCHEDULE OF LANDS & INTERESTS REQUIRED

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W NEW ACRES	R/W EXISTING ACRES	R/W TOTAL ACRES	TLE ACRES
13	TROY R. & SANDRA J. WENDT	FEE	0.03	0.12	0.15	----
14	JOHN KANAMAN & ALAN KANAMAN, ROLAND H. KANAMAN (LE)	FEE	0.21	0.41	0.62	----
16	GREGORY E. NEAVEAR	FEE	0.04	----	0.04	----
17	HAROLD E. ELLIOTT	FEE	0.03	----	0.03	----
64	JANICE DEFFERDING	FEE	0.01	----	0.01	----
65	DONNA STAMMER & GARY OBERMEIER	FEE	0.05	----	0.05	----

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

UTILITY INTERESTS REQUIRED

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED
100	WISCONSIN ELECTRIC POWER COMPANY (WEPCO)	RELEASE OF RIGHTS
101	CENTURYLINK	RELEASE OF RIGHTS

TRANSPORTATION PROJECT PLAT NO: 6520-03-21 - 4.02

THAT PART OF GOVERNMENT LOT 3, GOVERNMENT LOT 4, PART OF THE SE 1/4 OF THE SW 1/4 AND PART OF THE AND NE 1/4 OF SECTION 9, ALL IN TOWNSHIP 23 NORTH, RANGE 16 EAST, TOWN OF BOVINA, OUTAGAMIE COUNTY, WISCONSIN.

RELOCATION ORDER STH 187 OUTAGAMIE 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 NAMED PROJECT.

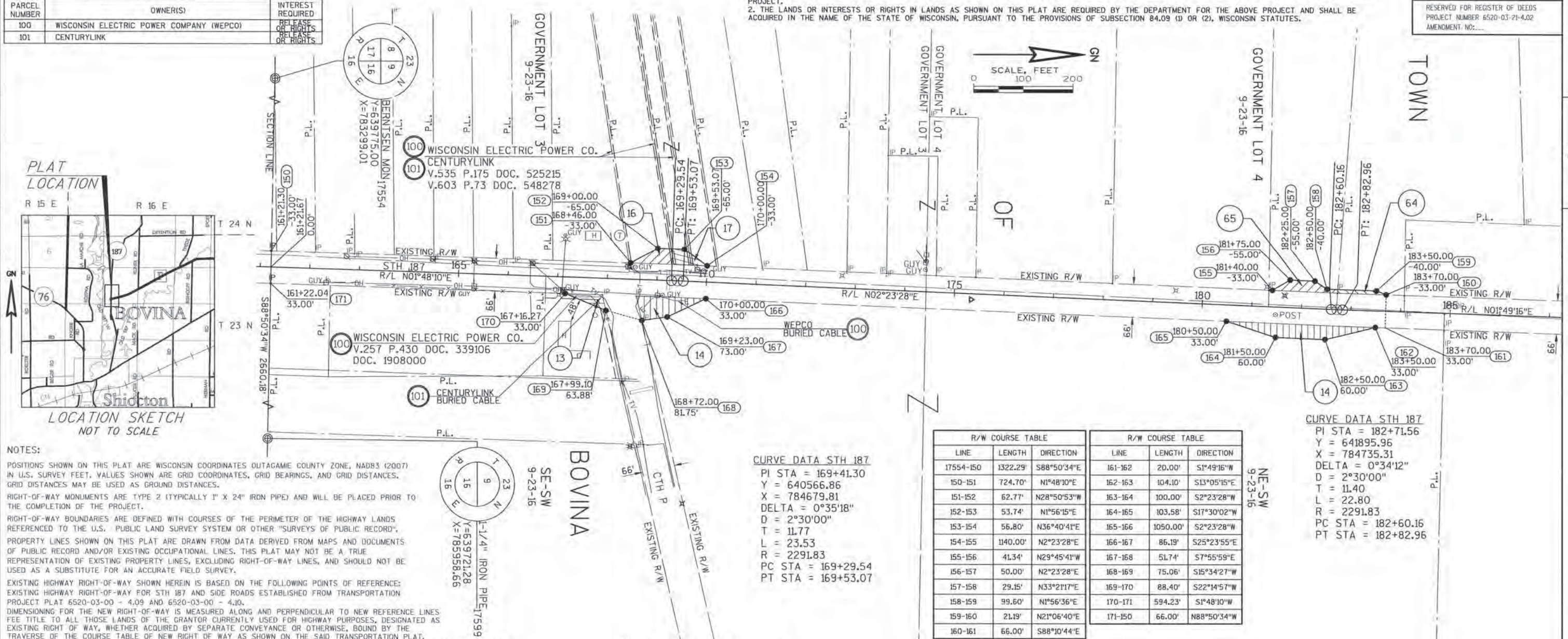
TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTIONS 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

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 NAMED 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 SUBSECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

Document #: 2004797
Date: 12-12-2013 Time: 10:19 AM Pages: 1
Fee: \$25.00 County: OUTAGAMIE State: WI

SARAH R VAN CAMP
REGISTER OF DEEDS
The above recording information verifies the document has been electronically recorded and returned to the submitter

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 6520-03-21-4.02
AMENDMENT: NO.



NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATES OUTAGAMIE COUNTY ZONE, NAD83 (2007) IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICALLY 1\" X 24\" IRON PIPE) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER \"SURVEYS OF PUBLIC RECORD\". PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY LINES, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: EXISTING HIGHWAY RIGHT-OF-WAY FOR STH 187 AND SIDE ROADS ESTABLISHED FROM TRANSPORTATION PROJECT PLAT 6520-03-00 - 4.09 AND 6520-03-00 - 4.10.

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO NEW REFERENCE LINES. FEE TITLE TO ALL THOSE LANDS OF THE GRANTOR CURRENTLY USED FOR HIGHWAY PURPOSES, DESIGNATED AS EXISTING RIGHT OF WAY, WHETHER ACQUIRED BY SEPARATE CONVEYANCE OR OTHERWISE, BOUND BY THE TRAVERSE OF THE COURSE TABLE OF NEW RIGHT OF WAY AS SHOWN ON THE SAID TRANSPORTATION PLAT.

CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	RELEASE OF RIGHTS REMAINING	ROR	FOUND IRON PIPE/PIN	IF UNLESS NOTED
ACCESS RIGHTS	AR	RIGHT-OF-WAY	R/W	R/W MONUMENT	MON
ACRES	AC.	SECTION	SEC.	R/W STANDARD	STN
AND OTHERS	ET. AL.	STATION	STA.	SIGN	SIGN
CENTERLINE	C/L	TEMPORARY LIMITED EASEMENT	TLE	SECTION CORNER MONUMENT	SCM
CERTIFIED SURVEY MAP	CSM	VOLUME	V.	SECTION CORNER SYMBOL	SCS
CORNER	COR.				
DOCUMENT	DOC.				
EASEMENT	EASE.				
HIGHWAY EASEMENT	H.E.	LONG CHORD	LC	FEE (WATCH VARIES)	FEE
LAND CONTRACT	LC	LONG CHORD BEARING	LCB	TEMPORARY LIMITED EASEMENT	TLE
MONUMENT	MON.	RADIUS	R	PERMANENT LIMITED EASEMENT	PLE
PAGE	P.	DEGREE OF CURVE	D	R/W BOUNDARY POINT	R/WBP
PERMANENT LIMITED EASEMENT	PLE	CENTRAL ANGLE OR DELTA	CA/D	PARCEL NUMBER	PN
PROPERTY LINE	PL	LENGTH OF CURVE	L	UTILITY INTEREST	UI
RECORDED AS	REC	TANGENT	TAN	SIGN NUMBER (OFF PREMISE)	SN
REFERENCE LINE	R/L			BUILDING	B

CONVENTIONAL SYMBOLS

PROPOSED R/W LINE	---
EXISTING H.E. LINE	---
PROPERTY LINE	---
LOT & TIE LINES	---
SLOPE INTERCEPTS	---
CORPORATE LIMITS	---
ACCESS RESTRICTED (BY PREVIOUS ACQUISITION/CONTROL)	---
ACCESS RESTRICTED (BY ACQUISITION)	---
NO ACCESS (BY STATUTORY AUTHORITY)	---
SECTION LINE	---
QUARTER LINE	---
SIXTEENTH LINE	---
EXISTING CENTERLINE	---
PROPOSED REFERENCE LINE	---
PARALLEL OFFSET	---

CONVENTIONAL UTILITY SYMBOLS

WATER	---
GAS	---
TELEPHONE	---
OVERHEAD TRANSMISSION LINES	---
ELECTRIC	---
CABLE TELEVISION	---
FIBER OPTIC	---
SANITARY SEWER	---
STORM SEWER	---
POWER POLE	---
TELEPHONE POLE	---
TELEPHONE FEDESTAL	---
ELECTRIC TOWER	---

CURVE DATA STH 187

PI STA = 169+41.30
Y = 640566.86
X = 784679.81
DELTA = 0°35'18\"
D = 2°30'00\"
T = 11.77
L = 23.53
R = 2291.83
PC STA = 169+29.54
PT STA = 169+53.07

LINE	LENGTH	DIRECTION
17554-150	1322.29'	S88°50'34\"E
150-151	724.70'	N1°48'10\"E
151-152	62.77'	N28°50'53\"W
152-153	53.74'	N1°56'15\"E
153-154	56.80'	N36°40'41\"E
154-155	1140.00'	N2°23'28\"E
155-156	41.34'	N29°45'41\"W
156-157	50.00'	N2°23'28\"E
157-158	29.15'	N33°21'17\"E
158-159	99.60'	N1°56'36\"E
159-160	21.19'	N21°06'40\"E
160-161	66.00'	S88°10'44\"E

LINE	LENGTH	DIRECTION
161-162	20.00'	S1°49'16\"W
162-163	104.10'	S13°05'15\"E
163-164	100.00'	S2°23'28\"W
164-165	103.58'	S17°30'02\"W
165-166	1050.00'	S2°23'28\"W
166-167	86.19'	S25°23'55\"E
167-168	51.74'	S7°55'59\"E
168-169	75.06'	S15°34'27\"W
169-170	88.40'	S22°14'57\"W
170-171	594.23'	S1°48'10\"W
171-150	66.00'	N88°50'34\"W

POINT #	Y	X
150	639748.30'	784621.03'
151	640472.65'	784643.83'
152	640527.63'	784613.54'
153	640581.33'	784615.36'
154	640626.89'	784649.29'
155	641765.89'	784696.85'
156	641801.78'	784676.33'
157	641851.74'	784678.41'
158	641876.09'	784694.44'
159	641975.63'	784697.82'
160	641995.40'	784705.45'

POINT #	Y	X
161	641993.30'	784771.42'
162	641973.31'	784770.78'
163	641871.92'	784794.36'
164	641772.01'	784790.18'
165	641673.22'	784759.04'
166	640624.13'	784715.23'
167	640546.27'	784752.20'
168	640495.03'	784759.34'
169	640422.73'	784739.19'
170	640340.90'	784705.72'
171	639746.97'	784687.02'

AYRES ASSOCIATES

I, JASON M. INGRAM, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 6520-03-21 - 4.02 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.



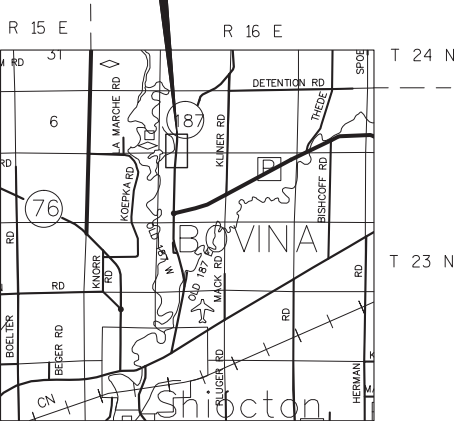
SIGNATURE *Jason M. Ingram* DATE 10-7-13
PRINTED NAME JASON M. INGRAM
REGISTRATION NUMBER S-2630
THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION
SIGNATURE *Curt Van Erem* DATE 12-2-2013
PRINTED NAME CURT VAN EREM

SCHEDULE OF LANDS & INTERESTS REQUIRED						
PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W NEW ACRES	R/W EXISTING ACRES	R/W TOTAL ACRES	TLE ACRES
18	RANDALL L. VAN STRATEN LC VENDEE	FEE	0.16	0.18	0.34	----
19	GERALD A. & ARLENE D. VAN STRATEN LC VENDOR	FEE	0.04	0.08	0.12	----
21	DYLAND K. & TAYLOR SIMPSON	FEE	0.06	0.07	0.13	----
22	ROBERT C. SINGLER	FEE	0.06	0.07	0.13	----
22	JOHN P. & DOLORES OBERSTADT, OBERSTADT FAMILY IRREVOCABLE TRUST	FEE	0.29	0.27	0.56	----
23	STATE OF WISCONSIN CONSERVATION COMMISSION	FEE	0.16	0.21	0.37	----
66	PATRICK J. HUEBNER	FEE & TLE	0.03	0.03	0.06	0.01

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

UTILITY INTERESTS REQUIRED		
PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED
100	WISCONSIN ELECTRIC POWER COMPANY (WEPCO)	RELEASE OR RIGHTS

PLAT LOCATION



LOCATION SKETCH NOT TO SCALE

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATES OUTAGAMIE COUNTY ZONE, NAD83 (2007) IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES. RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICALLY 1" X 24" IRON PIPE) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT. RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS OF PUBLIC RECORD". PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY LINES, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY. EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: EXISTING HIGHWAY RIGHT-OF-WAY FOR STH 187 AND SIDE ROADS ESTABLISHED FROM TRANSPORTATION PROJECT PLAT 6520-03-00 - 4J2 AND TRANSPORTATION PROJECT PLAT 6520-03-00 - 4J3.

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.

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO NEW REFERENCE LINES FEE TITLE TO ALL THOSE LANDS OF THE GRANTOR CURRENTLY USED FOR HIGHWAY PURPOSES, DESIGNATED AS EXISTING RIGHT OF WAY, WHETHER ACQUIRED BY SEPARATE CONVEYANCE OR OTHERWISE, BOUND BY THE TRAVERSE OF THE COURSE TABLE OF NEW RIGHT OF WAY AS SHOWN ON THE SAID TRANSPORTATION PLAT.

CONVENTIONAL ABBREVIATIONS

ACCESS POINT / DRIVEWAY CONNECTION	AP	RELEASE OF RIGHTS REMAINING	ROR	FOUND IRON PIPE/PIN	REM.
ACCESS RIGHTS	AR	RIGHT-OF-WAY	REM.	R/W MONUMENT	REM.
ACRES	AC.	SECTION	SEC.	R/W STANDARD	STA.
AND OTHERS	ET. AL.	STATION	STA.	SIGN	SIGN
CENTERLINE	C/L	TEMPORARY LIMITED EASEMENT	TLE	SECTION CORNER MONUMENT	SCM
CERTIFIED SURVEY MAP	CSM	VOLUME	V.	SECTION CORNER SYMBOL	SCS
CORNER	COR.	CURVE DATA			
DOCUMENT	DOC.	LONG CHORD	LCH	FEE (HATCH VARIES)	
EASEMENT	EASE.	LONG CHORD BEARING	LCB	TEMPORARY LIMITED EASEMENT	TEMP
HIGHWAY EASEMENT	H.E.	RADIUS	R	PERMANENT LIMITED EASEMENT	PERM
LAND CONTRACT	LC	DEGREE OF CURVE	D	R/W BOUNDARY POINT	RWB
MONUMENT	MON.	CENTRAL ANGLE OR DELTA	DELTA	PARCEL NUMBER	PAR
PAGE	P.	LENGTH OF CURVE	L	UTILITY INTEREST	UT
PERMANENT LIMITED EASEMENT	PLE	TANGENT	TAN	SIGN NUMBER (OFF PREMISE)	SIGN
PROPERTY LINE	PL			BUILDING	BUILD
RECORDED AS	(100')				
REFERENCE LINE	R/L				

CONVENTIONAL SYMBOLS

PROPOSED R/W LINE	---
EXISTING H.E. LINE	---
PROPERTY LINE	---
LOT & TIE LINES	---
SLOPE INTERCEPTS	---
CORPORATE LIMITS	---
ACCESS RESTRICTED (BY PREVIOUS ACQUISITION/CONTROL)	---
ACCESS RESTRICTED (BY ACQUISITION)	---
NO ACCESS (BY STATUTORY AUTHORITY)	---
SECTION LINE	---
QUARTER LINE	---
SIXTEENTH LINE	---
EXISTING CENTERLINE	---
PROPOSED REFERENCE LINE	---
PARALLEL OFFSET	---

CONVENTIONAL UTILITY SYMBOLS

WATER	---
GAS	---
TELEPHONE	---
OVERHEAD	---
TRANSMISSION LINES	---
ELECTRIC	---
CABLE TELEVISION	---
FIBER OPTIC	---
SANITARY SEWER	---
STORM SEWER	---
POWER POLE	---
TELEPHONE POLE	---
TELEPHONE PEDESTAL	---
ELECTRIC TOWER	---

TRANSPORTATION PROJECT PLAT NO: 6520-03-21 - 4.03 AMENDMENT NO: 1

AMENDS PARCEL 66 OF TRANSPORTATION PROJECT PLAT 6520-03-21-4.03, RECORDED AS DOCUMENT NO: 2004798. THAT PART OF THE NW 1/4 OF THE NW 1/4 AND PART OF THE NE 1/4 OF THE NW 1/4 OF SECTION 9 AND PART OF THE SW 1/4 OF THE SW 1/4 AND PART OF THE SE 1/4 OF THE SW 1/4 OF SECTION 4, ALL IN TOWNSHIP 23 NORTH, RANGE 16 EAST, TOWN OF BOVINA, OUTAGAMIE COUNTY, WISCONSIN.

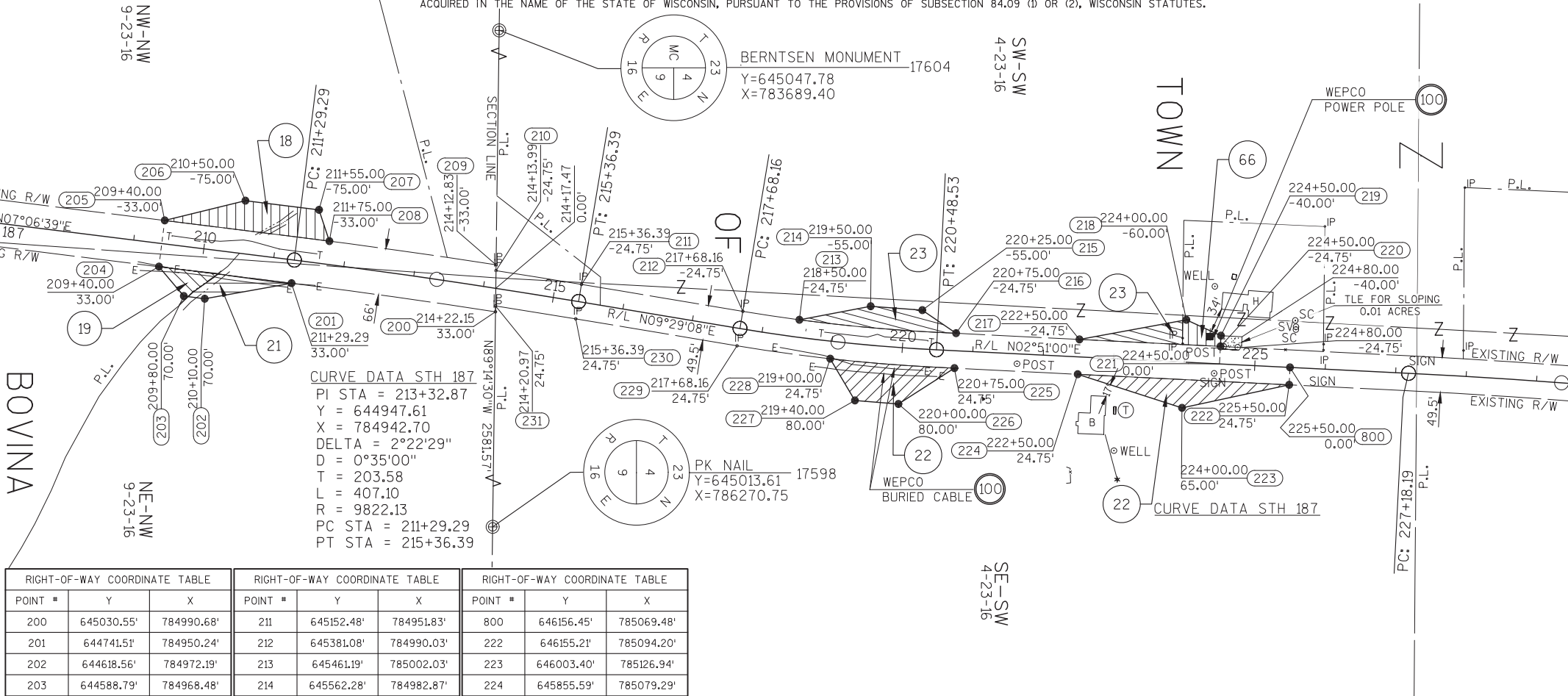
RELOCATION ORDER STH 187 OUTAGAMIE COUNTY

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 NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTIONS 84.02 (3), 84.09 AND 84.30, 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 NAMED 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 SUBSECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

Document #: 2030269
Date: 11-19-2014 Time: 09:14 AM
Pages: 1 Fee: \$25.00
County: OUTAGAMIE COUNTY State: WI
SARAH R VAN CAMP, REGISTER OF DEEDS
The above recording information was furnished by the submitter. The Department has been electronically recorded and returned to the submitter.

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 6520-03-21-4.03
AMENDMENT NO: 1



RIGHT-OF-WAY COORDINATE TABLE			RIGHT-OF-WAY COORDINATE TABLE			RIGHT-OF-WAY COORDINATE TABLE		
POINT #	Y	X	POINT #	Y	X	POINT #	Y	X
200	645030.55'	784990.68'	211	645152.48'	784951.83'	800	646156.45'	785069.48'
201	644741.51'	784950.24'	212	645381.08'	784990.03'	222	646155.21'	785094.20'
202	644618.56'	784972.19'	213	645461.19'	785002.03'	223	646003.40'	785126.94'
203	644588.79'	784968.48'	214	645562.28'	784982.87'	224	645855.59'	785079.29'
204	644553.68'	784926.81'	215	645635.37'	784988.36'	225	645680.80'	785070.58'
205	644561.85'	784861.32'	216	645683.26'	785021.14'	226	645601.57'	785121.45'
206	644676.20'	784833.26'	217	645858.05'	785029.85'	227	645539.80'	785116.37'
207	644780.58'	784846.31'	218	646009.61'	785002.10'	228	645504.82'	785057.22'
208	644795.18'	784890.53'	219	646058.56'	785024.56'	229	645372.92'	785038.85'
209	645031.44'	784924.04'	220	646057.80'	785039.79'	230	645144.32'	785000.66'
210	645031.33'	784932.37'	221	646056.57'	785064.51'	231	645030.66'	784982.35'

R/W COURSE TABLE			R/W COURSE TABLE		
LINE	LENGTH	DIRECTION	LINE	LENGTH	DIRECTION
17598-200	1280.17'	N89°14'30"W	218-219	53.85'	N24°39'05"E
200-201	SEE CURVE TABLE		219-220	15.25'	S87°09'00"E
201-202	124.90'	S10°07'17"E	220-221	24.75'	S87°09'00"E
202-203	30.00'	S7°06'39"W	221-800	100.00'	N02°51'00"E
203-204	54.49'	S49°52'47"W	800-222	24.75'	S87°09'00"E
204-205	66.00'	N82°53'21"W	222-223	155.31'	S12°10'14"E
205-206	117.75'	N13°47'13"W	223-224	155.31'	S17°52'14"W
206-207	105.20'	N7°07'46"E	224-225	175.00'	S2°51'00"W
207-208	46.57'	N71°44'01"E	225-226	94.15'	S32°42'14"E
208-209	SEE CURVE TABLE		226-227	61.98'	S4°42'31"W
209-210	8.33'	S89°14'30"E	227-228	68.72'	S59°24'11"W
210-211	SEE CURVE TABLE		228-229	SEE CURVE TABLE	
211-212	231.77'	N9°29'08"E	229-230	231.77'	S9°29'08"W
212-213	SEE CURVE TABLE		230-231	SEE CURVE TABLE	
213-214	102.89'	N10°43'43"W	231-200	8.33'	S89°14'30"E
214-215	73.29'	N4°17'40"E			
215-216	58.04'	N34°23'30"E			
216-217	175.00'	N2°51'00"E			
217-218	154.09'	N10°22'28"W			

CURVE TABLE					
CURVE	DELTA	LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
200-201	1°42'30"	291.87'	9789.13'	S7°57'54"W	291.86'
208-209	1°23'14"	238.63'	9855.13'	N8°04'16"E	238.62'
210-211	0°42'50"	122.71'	9846.88'	N9°07'43"E	122.71'
212-213	1°56'13"	81.01'	2396.20'	N8°31'02"E	81.00'
228-229	3°07'13"	133.19'	2445.70'	S7°55'32"W	133.17'
230-231	0°40'24"	115.12'	9797.38'	S9°08'56"W	115.12'

AYRES ASSOCIATES



SIGNATURE [Signature] DATE 11/13/2014
PRINTED NAME JASON M. INGRAM
REGISTRATION NUMBER S-2630
THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION
SIGNATURE [Signature] DATE 11/14/2014
PRINTED NAME CURT VAN EREM

SCHEDULE OF LANDS & INTERESTS REQUIRED						
PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W NEW ACRES	R/W EXISTING ACRES	R/W TOTAL ACRES	TLE ACRES
18	RANDALL L. VAN STRATEN LC VENDEE	FEE	0.16	0.18	0.34	----
19	GERALD A. & ARLENE D. VAN STRATEN LC VENDOR	FEE	0.04	0.08	0.12	----
21	DYLAND K. & TAYLOR SIMPSON	FEE	0.06	0.07	0.13	----
22	ROBERT C. SINGLER	FEE	0.29	0.27	0.56	----
23	JOHN P. & DOLORES OBERSTADT, OBERSTADT FAMILY IRREVOCABLE TRUST	FEE	0.16	0.21	0.37	----
66	STATE OF WISCONSIN CONSERVATION COMMISSION	FEE	0.06	0.09	0.15	----
66	PATRICK J. HUEBNER	FEE	0.06	0.09	0.15	----

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

UTILITY INTERESTS REQUIRED		
PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED
100	WISCONSIN ELECTRIC POWER COMPANY (WPCO)	RELEASE OF RIGHTS



NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATES OUTAGAMIE COUNTY ZONE, NAD83 (2007) IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICALLY 1" X 24" IRON PIPE) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS OF PUBLIC RECORD". PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY LINES, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: EXISTING HIGHWAY RIGHT-OF-WAY FOR STH 187 AND SIDE ROADS ESTABLISHED FROM TRANSPORTATION PROJECT PLAT 6520-03-00 - 4.12 AND TRANSPORTATION PROJECT PLAT 6520-03-00 - 4.13.

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO NEW REFERENCE LINES. FEE TITLE TO ALL THOSE LANDS OF THE GRANTOR CURRENTLY USED FOR HIGHWAY PURPOSES, DESIGNATED AS EXISTING RIGHT OF WAY, WHETHER ACQUIRED BY SEPARATE CONVEYANCE OR OTHERWISE, BOUND BY THE TRAVERSE OF THE COURSE TABLE OF NEW RIGHT OF WAY AS SHOWN ON THE SAID TRANSPORTATION PLAT.

CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	RELEASE OF RIGHTS	ROR
ACCESS RIGHTS	AR	REMAINING	REM.
ACRES	AC.	RIGHT-OF-WAY	R/W
AND OTHERS	ET AL.	SECTION	SEC.
CENTERLINE	C/L	STATION	STA.
CERTIFIED SURVEY MAP	CSM	TEMPORARY LIMITED EASEMENT	TLE
CORNER	CCR	VOLUME	V.
DOCUMENT	DOC.		
EASEMENT	EASE.		
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	P.L.E.	CENTRAL ANGLE OR DELTA	DELTA
PROPERTY LINE	PL	LENGTH OF CURVE	L
RECORDED AS	(100')	TANGENT	TAN
REFERENCE LINE	R/L		

CONVENTIONAL SYMBOLS

PROPOSED R/W LINE	---
EXISTING H.E. LINE	---
PROPERTY LINE	---
LOT & TIE LINES	---
SLOPE INTERCEPTS	---
CORPORATE LIMITS	---
ACCESS RESTRICTED (BY PREVIOUS ACQUISITION/CONTROL)	---
ACCESS RESTRICTED (BY ACQUISITION)	---
NO ACCESS (BY STATUTORY AUTHORITY)	---
SECTION LINE	---
QUARTER LINE	---
SIXTEENTH LINE	---
EXISTING CENTERLINE	---
PROPOSED REFERENCE LINE	---
PARALLEL OFFSET	---

CONVENTIONAL UTILITY SYMBOLS

WATER	---
GAS	---
TELEPHONE	---
OVERHEAD	---
TRANSMISSION LINES	---
ELECTRIC	---
CABLE TELEVISION	---
FIBER OPTIC	---
SANITARY SEWER	---
STORM SEWER	---
POWER POLE	---
TELEPHONE POLE	---
TELEPHONE PEDESTAL	---
ELECTRIC TOWER	---

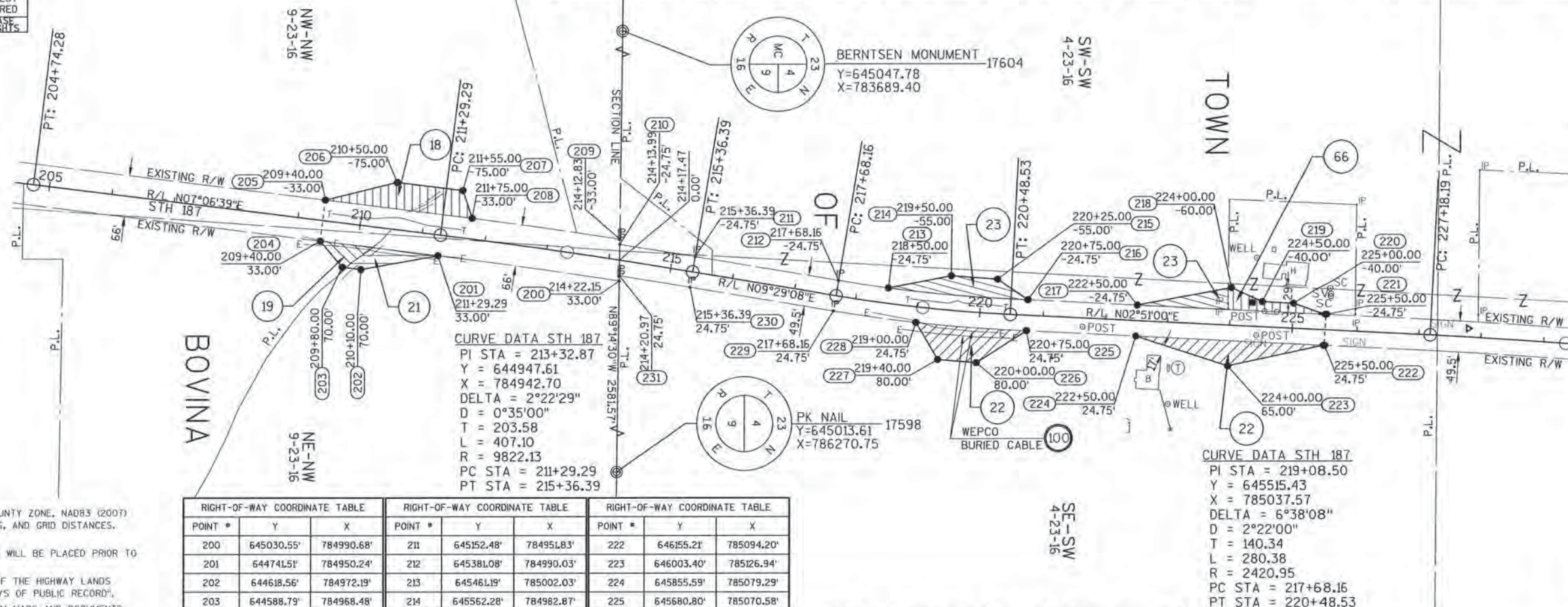
TRANSPORTATION PROJECT PLAT NO: 6520-03-21 - 4.03

THAT PART OF THE NW 1/4 OF THE NW 1/4 AND PART OF THE NE 1/4 OF THE NW 1/4 OF SECTION 9 AND PART OF THE SW 1/4 OF THE SW 1/4 AND PART OF THE SE 1/4 OF THE SW 1/4 OF SECTION 4, ALL IN TOWNSHIP 23 NORTH, RANGE 16 EAST, TOWN OF BOVINA, OUTAGAMIE COUNTY, WISCONSIN.

RELOCATION ORDER STH 187 OUTAGAMIE 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 NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTIONS 84.02 (3), 84.09 AND 84.30, 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 NAMED 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 SUBSECTION 84.09 (1) OR (2), WISCONSIN STATUTES.



RIGHT-OF-WAY COORDINATE TABLE			RIGHT-OF-WAY COORDINATE TABLE			RIGHT-OF-WAY COORDINATE TABLE		
POINT #	Y	X	POINT #	Y	X	POINT #	Y	X
200	645030.55'	784990.68'	211	645152.48'	784951.83'	222	646155.21'	785094.20'
201	644741.51'	784950.24'	212	645381.08'	784990.03'	223	646003.40'	785126.94'
202	644618.56'	784972.19'	213	645461.19'	785002.03'	224	645855.59'	785079.29'
203	644588.79'	784968.48'	214	645562.28'	784982.87'	225	645680.80'	785070.58'
204	644553.68'	784926.81'	215	645635.37'	784988.36'	226	645601.57'	785121.45'
205	644561.85'	784861.32'	216	645683.26'	785021.14'	227	645539.80'	785116.37'
206	644676.20'	784833.26'	217	645858.05'	785029.85'	228	645504.82'	785057.22'
207	644780.58'	784846.31'	218	646009.61'	785002.10'	229	645372.92'	785038.85'
208	644795.18'	784890.53'	219	646058.56'	785024.56'	230	645144.32'	785000.66'
209	645031.44'	784924.04'	220	646108.50'	785027.05'	231	645030.66'	784982.35'
210	645031.33'	784932.37'	221	646157.68'	785044.76'			

R/W COURSE TABLE			R/W COURSE TABLE		
LINE	LENGTH	DIRECTION	LINE	LENGTH	DIRECTION
17598-200	1280.17'	N89°14'30"W	218-219	53.85'	N24°39'05"E
200-201	SEE CURVE TABLE		219-220	50.00'	N2°51'00"E
201-202	124.90'	S10°07'17"E	220-221	52.27'	N19°48'42"E
202-203	30.00'	S7°06'39"W	221-222	49.50'	S87°09'00"E
203-204	54.49'	S49°52'47"W	222-223	155.31'	S12°10'14"E
204-205	66.00'	N82°53'21"W	223-224	155.31'	S17°52'14"W
205-206	117.75'	N13°47'13"W	224-225	175.00'	S2°51'00"W
206-207	105.20'	N7°07'46"E	225-226	94.15'	S32°42'14"E
207-208	46.57'	N71°44'01"E	226-227	61.98'	S4°42'31"W
208-209	SEE CURVE TABLE		227-228	68.72'	S59°24'11"W
209-210	8.33'	S89°14'30"E	228-229	SEE CURVE TABLE	
210-211	SEE CURVE TABLE		229-230	231.77'	S9°29'08"W
211-212	231.77'	N9°29'08"E	230-231	SEE CURVE TABLE	
212-213	SEE CURVE TABLE		231-200	8.33'	S89°14'30"E
213-214	102.89'	N10°43'43"W			
214-215	73.29'	N4°17'40"E			
215-216	58.04'	N34°23'30"E			
216-217	175.00'	N2°51'00"E			
217-218	154.09'	N10°22'28"W			

CURVE TABLE					
CURVE	DELTA	LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
200-201	1°42'30"	291.87'	9789.13'	S7°57'54"W	291.86'
208-209	1°23'14"	238.63'	9855.13'	N8°04'16"E	238.62'
210-211	0°42'50"	122.71'	9846.88'	N9°07'43"E	122.71'
212-213	1°56'13"	81.00'	2396.20'	N8°31'02"E	81.00'
228-229	3°07'13"	133.19'	2445.70'	S7°55'32"W	133.17'
230-231	0°40'24"	115.12'	9797.38'	S9°08'56"W	115.12'

AYRES ASSOCIATES

I, JASON M. INGRAM, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 6520-03-21 - 4.03 AND THAT SAID PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.



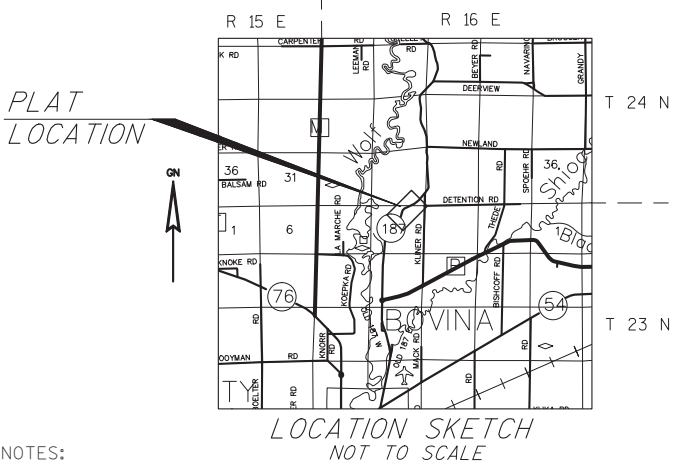
SIGNATURE: *[Signature]* DATE: 10-7-13
PRINTED NAME: JASON M. INGRAM
REGISTRATION NUMBER: S-2630
THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION
SIGNATURE: *[Signature]* DATE: 12-2-2013
PRINTED NAME: CURT VAN EREM

SCHEDULE OF LANDS & INTERESTS REQUIRED

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W NEW ACRES	R/W EXISTING ACRES	R/W TOTAL ACRES	H.E. ACRES
24	LAURIE L. WOOD	FEE	0.04	----	0.04	----
26	UNITED STATES FISH AND WILDLIFE SERVICE	H.E.	----	----	----	0.05
27	FIN AND FEATHER CLUB OF MAINE, INC.	FEE	0.45	0.44	0.89	----
28	JOHN P. LOTZER	FEE	0.18	0.10	0.28	----

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

UTILITY INTERESTS REQUIRED		
PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED
100	WISCONSIN ELECTRIC POWER COMPANY (WEPCO)	RELEASE OR RIGHTS



NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATES OUTAGAMIE COUNTY ZONE, NAD83 (2007) IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICALLY 1" X 24" IRON PIPE) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

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

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

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: EXISTING HIGHWAY RIGHT-OF-WAY FOR STH 187 AND SIDE ROADS ESTABLISHED FROM TRANSPORTATION PROJECT PLAT 6520-03-00 - 4.16 AND 6520-03-00 - 4.17.

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO NEW REFERENCE LINES FEE TITLE TO ALL THOSE LANDS OF THE GRANTOR CURRENTLY USED FOR HIGHWAY PURPOSES, DESIGNATED AS EXISTING RIGHT OF WAY, WHETHER ACQUIRED BY SEPARATE CONVEYANCE OR OTHERWISE, BOUND BY THE TRAVERSE OF THE COURSE TABLE OF NEW RIGHT OF WAY AS SHOWN ON THE SAID TRANSPORTATION PLAT.

A HIGHWAY EASEMENT (HE) IS AN EASEMENT FOR HIGHWAY PURPOSES, AS LONG AS SO USED, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE.

CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	PAGE	P.
ACCESS RIGHTS	AR	PERMANENT LIMITED EASEMENT	PLE
ACRES	AC.	PROPERTY LINE	PL
AND OTHERS	ET. AL.	RECORDED AS	(100')
CENTERLINE	C/L	REFERENCE LINE	R/L
CERTIFIED SURVEY MAP	CSM	RELEASE OF RIGHTS	ROR
CORNER	COR.	REMAINING	REM.
DOCUMENT	DOC.	RIGHT-OF-WAY	R/W
EASEMENT	EASE.	SECTION	SEC.
HIGHWAY EASEMENT	H.E.	STATION	STA.
LAND CONTRACT	LC	TEMPORARY LIMITED EASEMENT	TLE
MONUMENT	MON.	VOLUME	V.

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	IF (UNLESS NOTED)	PROPOSED R/W LINE	---	WATER	---
R/W MONUMENT	○ (SET)	EXISTING H.E. LINE	---	GAS	---
R/W STANDARD	△ (SET)	PROPERTY LINE	---	TELEPHONE	---
SIGN	ISIGN	LOT & TIE LINES	---	OVERHEAD	---
SECTION CORNER MONUMENT	⊙	SLOPE INTERCEPTS	---	TRANSMISSION LINES	---
SECTION CORNER SYMBOL	⊙	CORPORATE LIMITS	---	ELECTRIC	---
FEE (HATCH VARIES)	⊙	ACCESS RESTRICTED (BY PREVIOUS ACQUISITION/CONTROL)	---	CABLE TELEVISION	---
TEMPORARY LIMITED EASEMENT	⊙	ACCESS RESTRICTED (BY ACQUISITION)	---	FIBER OPTIC	---
PERMANENT LIMITED EASEMENT	⊙	NO ACCESS (BY STATUTORY AUTHORITY)	---	SANITARY SEWER	---
R/W BOUNDARY POINT	⊙	SECTION LINE	---	STORM SEWER	---
PARCEL NUMBER	⊙	QUARTER LINE	---	NON COMPENSABLE	---
UTILITY INTEREST	⊙	SIXTEENTH LINE	---	COMPENSABLE	---
SIGN NUMBER (OFF PREMISE)	⊙	EXISTING CENTERLINE	---	POWER POLE	---
BUILDING	⊙	PROPOSED REFERENCE LINE	---	TELEPHONE POLE	---
	⊙	PARALLEL OFFSET	---	TELEPHONE PEDESTAL	---
	⊙			ELECTRIC TOWER	---

CONVENTIONAL UTILITY SYMBOLS

WATER	---
GAS	---
TELEPHONE	---
OVERHEAD	---
TRANSMISSION LINES	---
ELECTRIC	---
CABLE TELEVISION	---
FIBER OPTIC	---
SANITARY SEWER	---
STORM SEWER	---
NON COMPENSABLE	---
COMPENSABLE	---
POWER POLE	---
TELEPHONE POLE	---
TELEPHONE PEDESTAL	---
ELECTRIC TOWER	---

TRANSPORTATION PROJECT PLAT NO: 6520-03-21 - 4.04 AMENDMENT NO: 1

AMENDS PARCEL 26 OF TRANSPORTATION PROJECT PLAT 6520-03-21-4.04, RECORDED AS DOCUMENT NO: 2004799. THAT PART OF THE SW 1/4 OF THE NE 1/4 AND PART OF THE FRACTIONAL NW 1/4 OF THE NE 1/4 OF SECTION 4, TOWNSHIP 23 NORTH, RANGE 16 EAST, TOWN OF BOVINA AND PART OF THE SW 1/4 OF THE SE 1/4 OF SECTION 33, TOWNSHIP 24 NORTH, RANGE 16 EAST, TOWN OF MAINE ALL IN OUTAGAMIE COUNTY, WISCONSIN.

RELOCATION ORDER STH 187 OUTAGAMIE 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 NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTIONS 84.02 (3), 84.09 AND 84.30, 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 NAMED 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 SUBSECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

CURVE DATA STH 187

PI STA = 254+11.92	PI STA = 265+15.82
Y = 648327.96	Y = 649394.97
X = 786557.90	X = 786921.76
DELTA = 36°48'36"	DELTA = 45°15'34"
D = 5°38'00"	D = 14°05'00"
T = 338.44	T = 169.60
L = 653.43	L = 321.37
R = 1017.08	R = 406.83
PC STA = 250+73.48	PC STA = 263+46.23
PT STA = 257+26.91	PT STA = 266+67.60



CURVE TABLE					
CURVE	DELTA	LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
250-251	0°51'37"	86.02'	5729.58'	N65°05'39"E	86.02'
255-256	0°33'33"	56.17'	5754.33'	S67°11'38"W	56.17'
257-258	3°23'03"	191.92'	3249.29'	S65°46'53"W	191.90'
262-263	21°39'23"	144.42'	382.08'	S29°39'28"W	143.56'
272-273	18°08'08"	136.61'	431.58'	N27°53'51"E	136.04'
277-278	3°23'03"	194.85'	3298.79'	N65°46'53"E	194.82'
279-280	0°33'33"	55.68'	5704.83'	N67°11'38"E	55.68'

R/W COURSE TABLE			R/W COURSE TABLE		
LINE	LENGTH	DIRECTION	LINE	LENGTH	DIRECTION
17595-250	1213.82'	S89°34'43"E	266-267	96.66'	S40°13'06"W
250-251	SEE CURVE TABLE		267-268	49.50'	N71°10'13"W
251-252	24.75'	S25°20'09"E	268-269	50.15'	N18°16'07"W
252-253	78.66'	S25°15'45"W	269-270	50.00'	N18°49'47"E
253-254	91.18'	S65°42'51"W	270-271	67.19'	N45°35'08"E
254-255	90.82'	N79°52'06"W	271-272	386.23'	N18°49'47"E
255-256	SEE CURVE TABLE		272-273	SEE CURVE TABLE	
256-257	19.00'	S67°28'24"W	273-274	94.98'	N13°55'39"E
257-258	SEE CURVE TABLE		274-275	87.78'	N52°48'32"E
258-259	239.09'	S64°05'21"W	275-276	65.59'	S75°21'44"E
259-260	52.56'	S10°03'51"E	276-277	239.09'	N64°05'21"E
260-261	61.09'	S56°19'47"W	277-278	SEE CURVE TABLE	
261-262	82.59'	S83°03'17"W	278-279	19.00'	N67°28'24"E
262-263	SEE CURVE TABLE		279-280	SEE CURVE TABLE	
263-264	386.23'	S18°49'47"W	280-281	60.87'	N31°16'48"E
264-265	49.67'	S26°22'27"E	281-282	49.48'	N66°09'51"E
265-266	25.00'	S18°49'47"W	282-283	128.98'	N81°08'54"E
			283-251	24.75'	S25°20'09"E

CURVE DATA STH 187

PI STA = 273+78.55
Y = 649759.56
X = 787722.93
DELTA = 5°11'09"
D = 1°00'00"
T = 259.47
L = 518.59
R = 5729.58
PC STA = 271+19.07
PT STA = 276+37.67

AYRES ASSOCIATES



SIGNATURE [Signature] DATE 11/13/2014
PRINTED NAME JASON M. INGRAM
REGISTRATION NUMBER 5-2630
THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION
SIGNATURE [Signature] DATE 11/14/2014
PRINTED NAME CURT VAN EREM

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W NEW ACRES	R/W EXISTING ACRES	R/W TOTAL ACRES	TLE ACRES
24	LAURIE L. WOOD	FEE	0.04	---	0.04	---
26	UNITED STATES FISH AND WILDLIFE SERVICE	FEE	0.05	---	0.05	---
27	FIN AND FEATHER CLUB OF MAINE, INC.	FEE	0.45	0.44	0.89	---
28	JOHN P. LOTZER	FEE	0.18	0.10	0.28	---

UTILITY INTERESTS REQUIRED		
PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED
100	WISCONSIN ELECTRIC POWER COMPANY (WEPCO)	RELEASE OR RIGHTS



ACCESS POINT /	AP	RELEASE OF RIGHTS	ROR
DRIVEWAY CONNECTION		REMAINING	REM.
ACCESS RIGHTS	AR	RIGHT-OF-WAY	R/W
ACRES	AC.	SECTION	SEC.
AND OTHERS	ET. AL.	STATION	STA.
CENTERLINE	C/L	TEMPORARY LIMITED EASEMENT	FILE
CERTIFIED SURVEY MAP	CSM	VOLUME	V.
CORNER	COR.		
DOCUMENT	DOC.		
EASEMENT	EASE.	<u>CURVE DATA</u>	
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		

FOUND IRON PIPE/PIN	1/2" (UNLESS NOTED)	PROPOSED R/W LINE	
		EXISTING H.W. LINE	
R/W MONUMENT	• (ISET)	PROPERTY LINE	
R/W STANDARD	Δ (ISET)	LOT & TIE LINES	
SIGN	(SIGN)	SLOPE INTERCEPTS	
SECTION CORNER MONUMENT	⊙	CORPORATE LIMITS	
SECTION CORNER SYMBOL	⊙	ACCESS RESTRICTED (BY PREVIOUS ACQUISITION/CONTROL)	*****
		ACCESS RESTRICTED (BY ACQUISITION)	*****
FEE (WATCH VARIES)	1/2" 1/4"	NO ACCESS (BY STATUTORY AUTHORITY)	*****
TEMPORARY LIMITED EASEMENT	1/2" 1/4"	SECTION LINE	
PERMANENT LIMITED EASEMENT	1/2" 1/4"	QUARTER LINE	
R/W BOUNDARY POINT	(RWB20)	SIXTEENTH LINE	
PARCEL NUMBER	003	EXISTING CENTERLINE	
UTILITY INTEREST	40	PROPOSED REFERENCE LINE	
SIGN NUMBER (OFF PREMISE)	21-	PARALLEL OFFSET	
BUILDING			

WATER	_____ W _____
GAS	_____ G _____
TELEPHONE	_____ T _____
OVERHEAD	_____ OH _____
TRANSMISSION LINES	_____ E _____
ELECTRIC	_____ TV _____
CABLE TELEVISION	_____ FO _____
FIBER OPTIC	_____ SAN _____
SANITARY SEWER	_____ SS _____
STORM SEWER	

NON COMPENSABLE COMPENSABLE

POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		
ELECTRIC TOWER		

PI STA = 254+11.92	PI STA = 265+15.82
Y = 648327.96	Y = 649394.97
X = 786557.90	X = 786921.76
DELTA = 36°48'36"	DELTA = 45°15'34"
D = 5°38'00"	D = 14°05'00"
T = 338.44	T = 169.60
L = 653.43	L = 321.37
R = 1017.08	R = 406.83
PC STA = 250+73.48	PC STA = 263+46.23
PT STA = 257+26.91	PT STA = 266+67.60

RELOCATION ORDER STH 187 OUTAGAMIE COUNTY

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTIONS 84.02 (3), 84.09 AND 84.30, 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 NAMED 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 SUBSECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

SARAH R VAN CAMP
REGISTER OF DEEDS
***The above recording information verifies
this document has been electronically
recorded and returned to the submitter.***

CURVE DATA STH 187

PI STA = 270+03.41
Y = 649615.82
X = 787376.36
DELTA = 3°23'03"
D = 1°45'00"
T = 96.72
L = 193.39
R = 3274.04
PC STA = 269+06.65
PT STA = 271+00.07

CURVE TABLE					
CURVE	DELTA	LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
250-251	0°51'37"	86.02'	5729.58'	N65°05'39"E	86.02'
255-256	0°33'33"	56.17'	5754.33'	S67°11'38"W	56.17'
257-258	3°23'03"	191.92'	3249.29'	S65°46'53"W	191.90'
262-263	21°39'23"	144.42'	382.08'	S29°39'28"W	143.56'
272-273	18°08'08"	136.61'	431.58'	N27°53'51"E	136.04'
277-278	3°23'03"	194.85'	3298.79'	N65°46'53"E	194.82'
279-280	0°33'33"	55.68'	5704.83'	N67°11'38"E	55.68'

R/W COURSE TABLE			R/W COURSE TABLE		
LINE	LENGTH	DIRECTION	LINE	LENGTH	DIRECTION
17595-250	1213.82'	S89°34'43"E	266-267	96.66'	S40°13'06"W
250-251	SEE CURVE TABLE		267-268	49.50'	N71°10'13"W
251-252	24.75'	S25°20'09"E	268-269	50.15'	N18°16'07"W
252-253	78.66'	S25°15'45"W	269-270	50.00'	N18°49'47"E
253-254	91.18'	S65°42'51"W	270-271	67.19'	N45°35'08"E
254-255	90.82'	N79°52'06"W	271-272	386.23'	N18°49'47"E
255-256	SEE CURVE TABLE		272-273	SEE CURVE TABLE	
256-257	19.00'	S67°28'24"W	273-274	94.98'	N13°55'39"E
257-258	SEE CURVE TABLE		274-275	87.78'	N52°48'32"E
258-259	239.09'	S64°05'21"W	275-276	65.59'	S75°21'44"E
259-260	52.56'	S10°03'51"E	276-277	239.09'	N64°05'21"E
260-261	61.09'	S56°19'47"W	277-278	SEE CURVE TABLE	
261-262	82.59'	S83°03'17"W	278-279	19.00'	N67°28'24"E
262-263	SEE CURVE TABLE		279-280	SEE CURVE TABLE	
263-264	386.23'	S18°49'47"W	280-281	60.87'	N31°16'48"E
264-265	49.67'	S26°22'27"E	281-282	49.48'	N66°09'51"E
265-266	25.00'	S18°49'47"W	282-283	128.98'	N81°08'54"E
			283-251	24.75'	S25°20'09"E

PI STA = 273+78.55
Y = 649759.56
X = 787722.93
DELTA = 5°11'09"
D = 1°00'00"
T = 259.47
L = 518.59
R = 5729.58
PC STA = 271+19.07
PT STA = 276+37.67

I, JASON M. INGRAM, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTE AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 6520-03-21- 4.04 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

SIGNATURE [Signature] DATE 10-7-13
PRINTED NAME JASON M. INGRAM
REGISTRATION NUMBER 5-2630

THIS PLAT AND RELOCATION ORDER ARE APPROVED
FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION

SIGNATURE [Signature] DATE 12-2-2013
PRINTED NAME CURT VAN EREM

SCHEDULE OF LANDS & INTERESTS REQUIRED

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W NEW ACRES	R/W EXISTING ACRES	R/W TOTAL ACRES	TLE ACRES
27	FIN & FEATHER CLUB OF MAINE, INC.	FEE	0.28	0.37	0.65	----
29	DUANNE N. WINTERFELDT	FEE	0.02	0.07	0.09	----

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

UTILITY INTERESTS REQUIRED

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED
100	WISCONSIN ELECTRIC POWER COMPANY (WEPCO)	RELEASE OF RIGHTS
101	CENTURYLINK	RELEASE OF RIGHTS

TRANSPORTATION PROJECT PLAT NO: 6520-03-21 - 4.05

THAT PART OF THE SE 1/4 OF THE SE 1/4 OF SECTION 33 AND PART OF THE SW 1/4 OF THE SW 1/4 OF SECTION 34, TOWNSHIP 24 NORTH, RANGE 16 EAST, TOWN OF MAINE, OUTAGAMIE COUNTY, WISCONSIN.

RELOCATION ORDER STH 187 OUTAGAMIE COUNTY

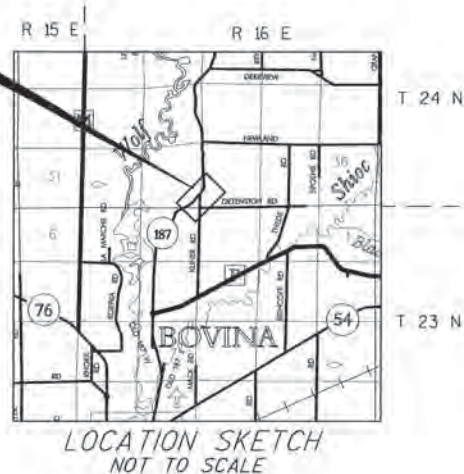
TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN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

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTIONS 84.02 (3), 84.09 AND 84.30, 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 NAMED PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE NAMED PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SUBSECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

Document # 2004800
Date 12-12-2013 Time 10:21 AM Page 1
Fee \$25.00 County OUTAGAMIE State WI

SARAH R VAN CAMP
REGISTER OF DEEDS
The above recording information was as
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recorded and returned to the submitter.

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 6520-03-21-4.05
AMENDMENT NO: _____

PLAT
LOCATION

SCHEDULE OF LANDS & INTERESTS REQUIRED

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W NEW ACRES	R/W EXISTING ACRES	R/W TOTAL ACRES	TLE ACRES
31	SHANE A. VAN STRATEN & KARA MEYER	FEE	0.14	0.13	0.27	----
32	RUSTY J. & LINDA M. WEGE, JAMES P. & JOYCE M. EBBEN (LEI)	FEE	0.10	0.11	0.20	----
33	DOROTHY M. THEEDE	FEE	0.25	0.32	0.55	----
34	YOLANDA GAYLOR, TAMME COATES, DAVID GAYLOR, JAMES GAYLOR	FEE	0.05	0.10	0.15	----

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

UTILITY INTERESTS REQUIRED

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED
100	WISCONSIN ELECTRIC POWER COMPANY	RELEASE OF RIGHTS

TRANSPORTATION PROJECT PLAT NO: 6520-03-21 - 4.06

THAT PART OF THE SW 1/4 OF THE NW 1/4 AND THE NW 1/4 OF THE NW 1/4 IN SECTION 34, AND THAT PART OF THE SW 1/4 OF THE SW 1/4 IN SECTION 27, ALL IN TOWNSHIP 24 NORTH, RANGE 16 EAST, TOWN OF MAINE, OUTAGAMIE COUNTY, STATE OF WISCONSIN.

RELOCATION ORDER STH 187 OUTAGAMIE 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 NAMED PROJECT.

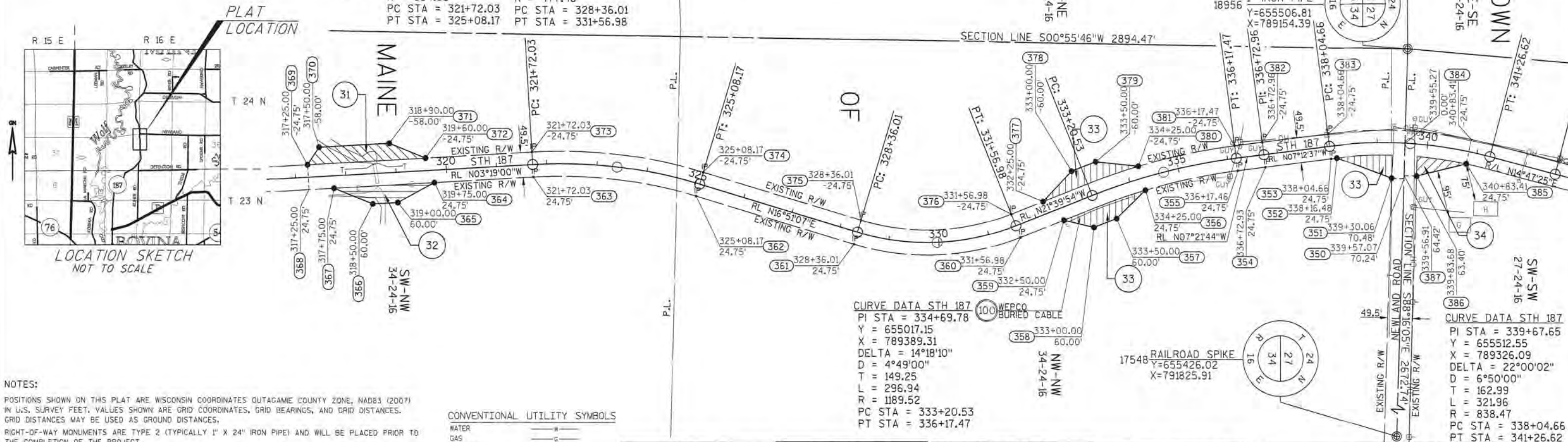
TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTIONS 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE NAMED 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 SUBSECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

Document # 2904801
Date: 12-12-2013 10:21 AM Pages: 1
Fee: \$25.00 County: OUTAGAMIE State: WI
SARAH R VAN CAMP
REGISTER OF DEEDS
The above record is hereby made public and the fee thereon has been personally received and returned to the state.

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 6520-03-21-4.06
AMENDMENT NO.

CURVE DATA STH 187

PI STA = 323+41.86 PI STA = 330+02.83
Y = 653935.47 Y = 654571.42
X = 789373.74 X = 789566.37
DELTA = 20°10'07" DELTA = 38°31'01"
D = 6°00'00" D = 12°00'00"
T = 169.83 T = 166.82
L = 336.14 L = 320.97
R = 954.93 R = 477.46
PC STA = 321+72.03 PC STA = 328+36.01
PT STA = 325+08.17 PT STA = 331+56.98



NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATES OUTAGAMIE COUNTY ZONE, NAD83 (2007) IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICALLY 1" X 24" IRON PIPE) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

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

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPANCY 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.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: EXISTING HIGHWAY RIGHT-OF-WAY FOR STH 187 AND SIDE ROADS ESTABLISHED FROM TRANSPORTATION PROJECT PLAT 6520-03-00 - 4.54 AND 6520-03-00 - 4.55.

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO NEW REFERENCE LINES. FEE TITLE TO ALL THOSE LANDS OF THE GRANTOR CURRENTLY USED FOR HIGHWAY PURPOSES, DESIGNATED AS EXISTING RIGHT OF WAY, WHETHER ACQUIRED BY SEPARATE CONVEYANCE OR OTHERWISE, BOUND BY THE TRAVERSE OF THE COURSE TABLE OF NEW RIGHT OF WAY AS SHOWN ON THE SAID TRANSPORTATION PLAT.

CONVENTIONAL ABBREVIATIONS

ACCESS POINT/DRIVEWAY CONNECTION	AP	RELEASE OF RIGHTS	ROR	FOUND IRON PIPE/PIN	FIP
ACCESS RIGHTS	AR	REMAINING	REM.	R/W MONUMENT	R/W M.
ACRES	AC.	RIGHT-OF-WAY	R/W	R/W STANDARD	R/W S.
AND OTHERS	ET AL.	SECTION	SEC.	SIGN	SIGN
CENTERLINE	C/L	STATION	STA.	SECTION CORNER MONUMENT	SCM
CERTIFIED SURVEY MAP	CSM	TEMPORARY LIMITED EASEMENT	TLE	SECTION CORNER SYMBOL	SCS
CORNER	COR.	VOLUME	V.		
DOCUMENT	DGC.				
EASEMENT	EASE.				
HIGHWAY EASEMENT	H.E.	LONG CHORD	LCH		
LAND CONTRACT	LC	LONG CHORD BEARING	LCB		
MONUMENT	MON.	RADIUS	R		
PADE	P.	DEGREE OF CURVE	D		
PERMANENT LIMITED EASEMENT	PLE	CENTRAL ANGLE OR DELTA	DELTA		
PROPERTY LINE	PL	LENGTH OF CURVE	L		
RECORDED AS	REC'D	TANGENT	TAN		
REFERENCE LINE	R/L				

CONVENTIONAL UTILITY SYMBOLS

WATER	—W—
GAS	—G—
TELEPHONE	—T—
OVERHEAD	—OH—
TRANSMISSION LINES	—E—
ELECTRIC	—E—
CABLE TELEVISION	—TV—
FIBER OPTIC	—FO—
SANITARY SEWER	—SAN—
STORM SEWER	—SS—

NON COMPENSABLE COMPENSABLE

POWER POLE	—P—
TELEPHONE POLE	—TP—
TELEPHONE PEDESTAL	—TPD—
ELECTRIC TOWER	—ET—

CONVENTIONAL SYMBOLS

PROPOSED R/W LINE	—PRL—
EXISTING H.E. LINE	—EHL—
LOT & TIE LINES	—LTL—
SLOPE INTERCEPTS	—SI—
CORPORATE LIMITS	—CL—
ACCESS RESTRICTED (BY PREVIOUS ACQUISITION/CONTROL)	—AR—
ACCESS RESTRICTED (BY ACQUISITION)	—AR—
NO ACCESS (BY STATUTORY AUTHORITY)	—NA—
SECTION LINE	—SL—
QUARTER LINE	—QL—
SIXTEENTH LINE	—SLN—
EXISTING CENTERLINE	—ECL—
PROPOSED REFERENCE LINE	—PRL—
PARALLEL OFFSET	—PO—

LINE	LENGTH	DIRECTION	LINE	LENGTH	DIRECTION
17548-350	2415.65'	N88°16'05"W	369-370	41.60'	N56°22'40"W
350-351	24.75'	S1°43'55"W	370-371	140.00'	N3°19'00"W
351-352	116.36'	S20°33'49"W	371-372	77.50'	N22°05'28"E
352-353	SEE CURVE TABLE		372-373	212.03'	N3°19'00"W
353-354	131.67'	S7°12'37"E	373-374	SEE CURVE TABLE	
354-355	55.46'	S7°21'44"E	374-375	327.84'	N16°51'07"E
355-356	SEE CURVE TABLE		375-376	SEE CURVE TABLE	
356-357	80.44'	S44°24'53"E	376-377	68.02'	N21°39'54"W
357-358	48.51'	S21°15'21"E	377-378	82.87'	N46°50'19"W
358-359	61.18'	S13°31'08"W	378-379	51.48'	N21°14'18"W
359-360	93.02'	S21°39'54"E	379-380	85.28'	N5°57'49"E
360-361	SEE CURVE TABLE		380-381	SEE CURVE TABLE	
361-362	327.84'	S16°51'07"W	381-382	55.52'	N7°21'44"W
362-363	SEE CURVE TABLE		382-383	131.73'	N7°12'37"W
363-364	197.03'	S3°19'00"E	383-384	SEE CURVE TABLE	
364-365	82.87'	S28°29'24"E	384-385	49.50'	S78°09'44"E
365-366	50.00'	S3°19'00"E	385-386	102.01'	S13°47'30"E
366-367	82.87'	S21°51'25"W	386-387	24.75'	S1°43'55"W
367-368	50.00'	S3°19'00"E	387-388	5.82'	S88°16'05"E
368-369	49.50'	S86°47'00"W			

CURVE DATA STH 187
PI STA = 334+69.78
Y = 655017.15
X = 789389.31
DELTA = 14°18'10"
D = 4°49'00"
T = 149.25
L = 296.94
R = 1189.52
PC STA = 333+20.53
PT STA = 336+17.47

CURVE DATA STH 187
PI STA = 339+67.65
Y = 655512.55
X = 789326.09
DELTA = 22°00'02"
D = 6°50'00"
T = 162.99
L = 321.96
R = 838.47
PC STA = 338+04.66
PT STA = 341+26.62

AYRES ASSOCIATES

I, JASON M. INGRAM, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.055 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 6520-03-21 - 4.06 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

SIGNATURE *[Signature]* DATE 12-6-13
PRINTED NAME JASON M. INGRAM
REGISTRATION NUMBER S-2630
THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION
SIGNATURE *[Signature]* DATE 12-6-13
PRINTED NAME CURT VAN ERE 93

SCHEDULE OF LANDS & INTERESTS REQUIRED

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W NEW ACRES/SF	R/W EXISTING ACRES/SF	R/W TOTAL ACRES/SF	TLE ACRES
37	THOMAS J. & JANET L. STILEN	FEE	0.24	0.18	0.42	----
38	ROBERT H. & LISA L. BLOM	FEE	0.01	----	0.01	----
39	KENNETH E. & SHELLEY J. PODELL	FEE	0.19	----	0.19	----

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

UTILITY INTERESTS REQUIRED

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED
100	WISCONSIN ELECTRIC POWER COMPANY (WEPCO)	RELEASE OF RIGHTS
101	CENTURYLINK	RELEASE OF RIGHTS

TRANSPORTATION PROJECT PLAT NO: 6520-03-21 - 4.07

THAT PART OF THE NE 1/4 OF THE NE 1/4 OF SECTION 28, TOWNSHIP 24 NORTH, RANGE 16 EAST, TOWN OF MAINE, OUTAGAMIE COUNTY, WISCONSIN.

RELOCATION ORDER STH 187 OUTAGAMIE COUNTY

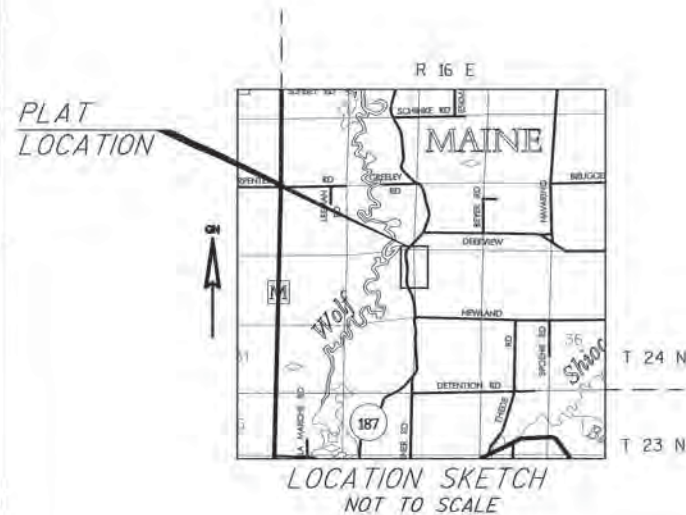
TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN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

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTIONS 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAYED OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE NAMED 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 SUBSECTION 84.09 (D) OR (2), WISCONSIN STATUTES.

Document # 2004802
Date: 12-12-2013 Time: 10:22 AM Page: 1
Fee: \$25.00 County: OUTAGAMIE State: WI

SARAH R VAN CAMP
REGISTER OF DEEDS
*** The above recorded information was verified by a document has been electronically recorded and returned to the submitter ***

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 6520-03-21-4.07
AMENDMENT NO: ---



POINT #	Y	X
400	660685.60'	788963.57'
401	660592.91'	788875.67'
402	660581.73'	788865.62'
403	660372.81'	788848.96'
404	660293.31'	788806.18'
405	660288.53'	788756.91'
406	660313.42'	788754.49'
407	660419.43'	788708.41'
408	660528.57'	788731.65'
409	660580.62'	788779.06'
410	660626.97'	788839.75'
411	660687.55'	788897.21'

CURVE	DELTA	LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
401-402	3°01'25"	15.04'	284.96'	S41°58'14"W	15.04'

LINE	LENGTH	DIRECTION
17583-400	604.89'	N88°18'35"W
400-401	127.74'	S43°28'57"W
401-402	SEE CURVE TABLE	
402-403	209.59'	S4°33'35"W
403-404	90.28'	S28°17'10"W
404-405	49.50'	S84°27'50"W
405-406	25.00'	N05°32'10"W
406-407	115.59'	N23°29'42"W
407-408	111.59'	N12°01'20"E
408-409	70.40'	N42°19'48"E
409-410	76.37'	N52°37'51"E
410-411	83.50'	N43°28'57"E
411-400	66.39'	S88°18'35"E

PI STA = 382+02.16
Y = 659632.42
X = 788910.82
DELTA = 14°42'30"
D = 7°00'00"
T = 105.64
L = 210.12
R = 818.51
PC STA = 380+96.52
PT STA = 383+06.64

CURVE DATA STH 187

PI STA = 385+23.71
Y = 659940.73
X = 788815.48
DELTA = 11°38'51"
D = 7°30'00"
T = 77.92
L = 155.30
R = 763.94
PC STA = 384+45.79
PT STA = 386+01.09

PI STA = 390+92.58
Y = 660507.49
X = 788760.55
DELTA = 49°01'06"
D = 18°30'00"
T = 141.20
L = 264.96
R = 309.71
PC STA = 389+51.38
PT STA = 392+16.34

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATES, OUTAGAMIE COUNTY ZONE, NAD83 (2007) IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICALLY 1" x 24" IRON PIPE) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

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

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

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: EXISTING HIGHWAY RIGHT-OF-WAY FOR STH 187 AND SIDE ROADS ESTABLISHED FROM TRANSPORTATION PROJECT PLAT 6520-03-00-4.59.

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO NEW REFERENCE LINES. FEE TITLE TO ALL THOSE LANDS OF THE GRANTOR CURRENTLY USED FOR HIGHWAY PURPOSES, DESIGNATED AS EXISTING RIGHT OF WAY, WHETHER ACQUIRED BY SEPARATE CONVEYANCE OR OTHERWISE, BOUND BY THE TRAVERSE OF THE COURSE TABLE OF NEW RIGHT OF WAY AS SHOWN ON THE SAID TRANSPORTATION PLAT.

CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	RELEASE OF RIGHTS	ROR
ACCESS RIGHTS	AR	REMAINING	REM.
ACRES	AC.	RIGHT-OF-WAY	R/W
AND OTHERS	ET AL.	SECTION	SEC.
CENTERLINE	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	L.C.		
MONUMENT	MON.		
PAGE	P.		
PERMANENT LIMITED EASEMENT	PLE		
PROPERTY LINE	PL		
RECORDED AS	(000)		
REFERENCE LINE	R/L		

CURVE DATA

LONG CHORD	LCB
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE OR DELTA	DELTA
LENGTH OF CURVE	L
TANGENT	TAN

CONVENTIONAL SYMBOLS

PROPOSED R/W LINE	---
EXISTING H.E. LINE	---
PROPERTY LINE	---
LOT & TIE LINES	---
SLOPE INTERCEPTS	---
CORPORATE LIMITS	---
ACCESS RESTRICTED (BY PREVIOUS ACQUISITION/CONTROL)	---
ACCESS RESTRICTED (BY ACQUISITION)	---
NO ACCESS (BY STATUTORY AUTHORITY)	---
SECTION LINE	---
QUARTER LINE	---
SIXTEENTH LINE	---
EXISTING CENTERLINE	---
PROPOSED REFERENCE LINE	---
PARALLEL OFFSET	---

CONVENTIONAL UTILITY SYMBOLS

WATER	---
GAS	---
TELEPHONE	---
OVERHEAD	---
TRANSMISSION LINES	---
ELECTRIC	---
CABLE TELEVISION	---
FIBER OPTIC	---
SANITARY SEWER	---
STORM SEWER	---
POWER POLE	---
TELEPHONE POLE	---
TELEPHONE PEDESTAL	---
ELECTRIC TOWER	---

AYRES ASSOCIATES

I, JASON M. INGRAM, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 6520-03-21 - 4.07 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.



SIGNATURE *JM* DATE 10-7-13
PRINTED NAME JASON M. INGRAM
REGISTRATION NUMBER 5-2630
THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION
SIGNATURE *Curt Van Erem* DATE 12-2-2013
PRINTED NAME CURT VAN EREM

SCHEDULE OF LANDS & INTERESTS REQUIRED

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W NEW ACRES	R/W EXISTING ACRES	R/W TOTAL ACRES	TLE ACRES
44	MARK W. & MARY E. WINTERFEDT	TLE	----	----	----	0.11
46	FRANCIS H. & IOLINE E. NITZKE	FEE	0.19	0.14	0.33	----
47	CHARLES E. GUYETTE	FEE	0.22	0.14	0.36	----

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

UTILITY INTERESTS REQUIRED

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED
101	CENTURYLINK	RELEASE OF RIGHTS

TRANSPORTATION PROJECT PLAT NO: 6520-03-21 - 4.08

THAT PART OF THE SW 1/4 OF THE NE 1/4, THAT PART OF THE SE 1/4 OF THE NE 1/4 AND THAT PART OF THE NE 1/4 OF THE SE 1/4, ALL IN SECTION 16, TOWNSHIP 24 NORTH, RANGE 16 EAST, TOWN OF MAINE, OUTAGAMIE COUNTY, WISCONSIN.

RELOCATION ORDER STH 187 OUTAGAMIE COUNTY

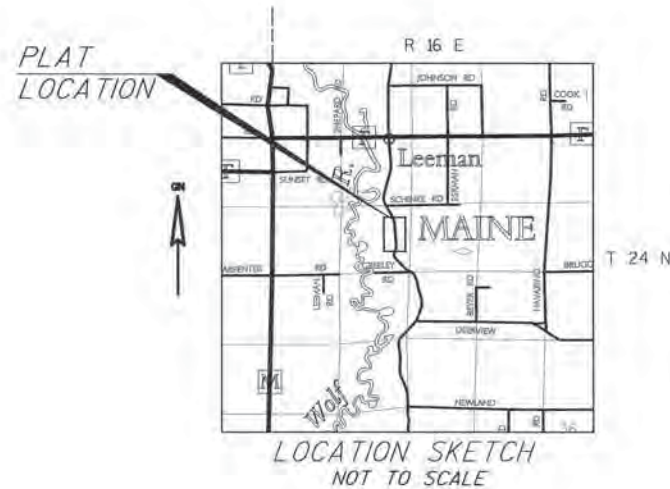
TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN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

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTIONS 84.02 (3), 84.09 AND 84.30, 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 NAMED 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 SUBSECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

Document No: 2005232
Date: 12-18-2013 Time: 08:35 AM Pages: 1
Fee: \$25.00 County: OUTAGAMIE State: WI

SARAH R VAN CAMP
REGISTER OF DEEDS
***The above electronic information was filed
and the document has been electronically
recorded and returned to the submitter***

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 6520-03-21-4.08
AMENDMENT NO:



NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATES OUTAGAMIE COUNTY ZONE, NAD83 (2007) IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICALLY 1" X 24" IRON PIPE) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

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

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

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: EXISTING HIGHWAY RIGHT-OF-WAY FOR STH 187 AND SIDE ROADS ESTABLISHED FROM TRANSPORTATION PROJECT PLAT 6520-03-00-4.68, 6520-03-00-4.69 AND 6520-02-21-4.02 AMENDMENT NO. 3.

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

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO NEW REFERENCE LINES FEE TITLE TO ALL THOSE LANDS OF THE GRANTOR CURRENTLY USED FOR HIGHWAY PURPOSES, DESIGNATED AS EXISTING RIGHT OF WAY, WHETHER ACQUIRED BY SEPARATE CONVEYANCE OR OTHERWISE, BOUND BY THE TRAVERSE OF THE COURSE TABLE OF NEW RIGHT OF WAY AS SHOWN ON THE SAID TRANSPORTATION PLAT.

CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	RELEASE OF RIGHTS	ROR	FOUND IRON PIPE/PIN	IF UNLESS NOTED
ACCESS RIGHTS	AR	REMAINING	REM.	R/W MONUMENT	• (SET)
ACRES	AC.	RIGHT-OF-WAY	R/W	R/W STANDARD	• (SET)
AND OTHERS	ET AL.	SECTION	SEC.	STGN	(SIGN)
CENTERLINE	C/L	STATION	STA.	SECTION CORNER MONUMENT	•
CERTIFIED SURVEY MAP	CSM	TEMPORARY LIMITED EASEMENT	TLE	SECTION CORNER SYMBOL	•
CORNER	COR.	VOLUME	V.		
DOCUMENT	DOC.	CURVE DATA			
EASEMENT	EASE.	LONG CHORD	LCB	FEE (HATCH VARIES)	
HIGHWAY EASEMENT	H.E.	LONG CHORD BEARING	LCB	TEMPORARY LIMITED EASEMENT	
LAND CONTRACT	LC	RADIUS	R	PERMANENT LIMITED EASEMENT	
MONUMENT	MON.	DEGREE OF CURVE	D	R/W BOUNDARY POINT	•
PAGE	P.	CENTRAL ANGLE OR DELTA	DELTA	PARCEL NUMBER	XXX
PERMANENT LIMITED EASEMENT	P.L.E.	LENGTH OF CURVE	L	UTILITY INTEREST	•
PROPERTY LINE	PL	TANGENT	TAN	SIGN NUMBER	•
RECORDED AS	(100)			(OFF PREMISE)	•
REFERENCE LINE	R/L			BUILDING	•

CONVENTIONAL SYMBOLS

PROPOSED R/W LINE	---
EXISTING H.E. LINE	---
PROPERTY LINE	---
LOT & TIE LINES	---
SLOPE INTERCEPTS	---
CORPORATE LIMITS	---
ACCESS RESTRICTED (BY PREVIOUS ACQUISITION/CONTROL)	---
ACCESS RESTRICTED (BY ACQUISITION)	---
NO ACCESS (BY STATUTORY AUTHORITY)	---
SECTION LINE	---
QUARTER LINE	---
SIXTEENTH LINE	---
EXISTING CENTERLINE	---
PROPOSED REFERENCE LINE	---
PARALLEL OFF-SET	---

CONVENTIONAL UTILITY SYMBOLS

WATER	---
GAS	---
TELEPHONE	---
OVERHEAD TRANSMISSION LINES	---
ELECTRIC	---
CABLE TELEVISION	---
FIBER OPTIC	---
SANITARY SEWER	---
STORM SEWER	---
POWER POLE	---
TELEPHONE POLE	---
TELEPHONE PEDESTAL	---
ELECTRIC TOWER	---

R/W COURSE TABLE		
LINE	LENGTH	DIRECTION
17576-450	1213.50'	S89°48'43"W
450-451	211.49'	N2°53'55"W
451-452	233.90'	N3°23'03"W
452-453	24.75'	S86°36'57"W
453-454	111.92'	N30°03'49"W
454-455	75.00'	N3°23'03"W
455-456	90.28'	N30°26'17"E
456-457	49.50'	N86°36'57"E
457-458	93.15'	S39°45'43"E
458-459	100.00'	S3°23'03"E
459-460	93.15'	S32°59'37"W
460-452	24.75'	S86°36'57"W

RIGHT-OF-WAY COORDINATE TABLE		
POINT #	Y	X
450	668245.60'	788720.50'
451	668456.82'	788709.81'
452	668690.31'	788696.00'
453	668688.85'	788671.29'
454	668785.71'	788615.23'
455	668860.58'	788610.80'
456	668938.41'	788656.53'
457	668941.33'	788705.95'
458	668869.73'	788765.53'
459	668769.90'	788771.43'
460	668691.77'	788720.71'

AYRES ASSOCIATES

I, JASON M. INGRAM, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 6520-03-21 - 4.08 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.



SIGNATURE *J.M. Ingram* DATE 10-7-13
PRINTED NAME JASON M. INGRAM
REGISTRATION NUMBER S-2630
THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION
SIGNATURE *Curt Van Erem* DATE 12-12-2013
PRINTED NAME CURT VAN EREM

SCHEDULE OF LANDS & INTERESTS REQUIRED

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W NEW ACRES	R/W EXISTING ACRES	R/W TOTAL ACRES	TLE ACRES
48	TODD M. & MARY K. TISCHAUER	FEE	0.11	---	0.11	---
49	JULIANNE FALDE	FEE	0.04	0.06	0.10	---
51	DAMON C. & STACY L. SCOTT	FEE	0.06	0.04	0.10	---
52	HERB FARMS, LLC	FEE	0.04	0.08	0.12	---

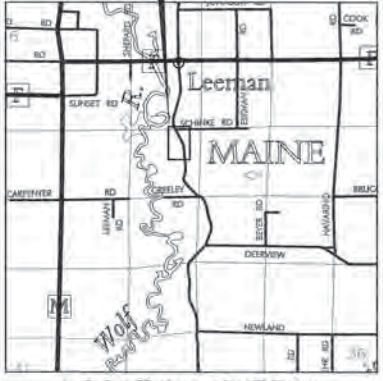
OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

UTILITY INTERESTS REQUIRED		
PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED
100	WISCONSIN ELECTRIC POWER COMPANY (WEPCO)	RELEASE OR RIGHTS
101	CENTURYLINK	RELEASE OR RIGHTS

CURVE TABLE					
CURVE	DELTA	LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
520-500	3°17'41"	226.25'	3934.68'	N24°43'37"W	226.22'

RIGHT-OF-WAY COORDINATE TABLE			R/W COURSE TABLE		
POINT #	Y	X	LINE	LENGTH	DIRECTION
500	670789.10'	788015.08'	17575-500	634.16'	S89°24'42"E
501	670788.99'	788025.53'	500-501	10.45'	S89°24'42"E
502	670823.00'	788009.93'	501-502	37.42'	N24°38'10"W
503	670873.00'	787988.71'	502-503	54.31'	N22°59'52"W
504	670892.34'	788034.28'	503-504	49.50'	N67°00'08"E
505	670807.25'	788112.02'	504-505	115.25'	S42°25'02"E
506	670788.11'	788111.82'	505-506	19.14'	S0°35'18"W
507	670787.79'	788142.20'	506-507	30.38'	S89°24'42"E
508	670757.51'	788141.89'	507-508	30.28'	S0°35'18"W
509	670679.20'	788141.91'	508-509	78.31'	S0°00'45"E
510	670615.02'	788171.95'	509-510	70.86'	S25°05'14"E
511	670584.39'	788233.33'	510-511	68.60'	S63°28'33"E
512	670553.14'	788249.10'	511-512	35.00'	S26°46'22"E
513	670526.65'	788218.78'	512-513	40.26'	S48°50'45"W
514	670482.01'	788241.30'	513-514	50.00'	S26°46'22"E
515	670454.17'	788241.63'	514-515	27.84'	S0°40'05"E
516	670427.36'	788188.77'	515-516	59.27'	S63°06'30"W
517	670494.36'	788154.79'	516-517	75.12'	N26°53'30"W
518	670506.17'	788122.70'	517-518	34.19'	N69°47'27"W
519	670559.74'	788095.68'	518-519	60.00'	N26°46'22"W
520	670583.62'	788109.70'	519-520	27.69'	N30°25'59"E
520-500					SEE CURVE TABLE

PLAT LOCATION



LOCATION SKETCH NOT TO SCALE

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATES OUTAGAMIE COUNTY ZONE, NAD83 (2007) IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICALLY 1" X 24" IRON PIPE) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

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

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

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: EXISTING HIGHWAY RIGHT-OF-WAY FOR STH 187 AND SIDE ROADS ESTABLISHED FROM TRANSPORTATION PROJECT PLAT 6520-03-00-4.70 AND 6520-03-00-4.71.

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO NEW REFERENCE LINES FEE TITLE TO ALL THOSE LANDS OF THE GRANTOR CURRENTLY USED FOR HIGHWAY PURPOSES, DESIGNATED AS EXISTING RIGHT OF WAY, WHETHER ACQUIRED BY SEPARATE CONVEYANCE OR OTHERWISE, BOUND BY THE TRAVERSE OF THE COURSE TABLE OF NEW RIGHT OF WAY AS SHOWN ON THE SAID TRANSPORTATION PLAT.

CONVENTIONAL ABBREVIATIONS		CONVENTIONAL SYMBOLS	
ACCESS POINT/ DRIVEWAY CONNECTION	AP	RELEASE OF RIGHTS REMAINING	ROR
ACCESS RIGHTS	AR	RIGHT-OF-WAY	R/W
ACRES	AC.	SECTION	SEC.
AND OTHERS	ET.AL.	STATION	STA.
CENTERLINE	C/L	TEMPORARY LIMITED EASEMENT	TLE
CERTIFIED SURVEY MAP	CSM	VOLUME	V.
CORNER	COR.		
DOCUMENT	DOC.		
EASEMENT	EASE.		
HIGHWAY EASEMENT	H.E.		
LAND CONTRACT	L.C.		
MONUMENT	MON.		
PAGE	P.		
PERMANENT LIMITED EASEMENT	P.L.E.		
PROPERTY LINE	PL		
RECORDED AS	(BOOK)		
REFERENCE LINE	R/L		
		FOUND IRON PIPE/PIN	IF
		R/W MONUMENT	R/W
		R/W STANDARD	STND
		SIGN	SIGN
		SECTION CORNER MONUMENT	SCM
		SECTION CORNER SYMBOL	SCS
		FEE (HATCH VARIES)	FEE
		TEMPORARY LIMITED EASEMENT	TLE
		PERMANENT LIMITED EASEMENT	P.L.E.
		R/W BOUNDARY POINT	R/W
		PARCEL NUMBER	PAR
		UTILITY INTEREST	UTI
		SIGN NUMBER (OFF PREMISE)	SIGN
		BUILDING	BUILD
		PROPOSED R/W LINE	PRO
		EXISTING H.E. LINE	EXH
		PROPERTY LINE	PRO
		LOT & TIE LINES	LOT
		SLOPE INTERCEPTS	SLO
		CORPORATE LIMITS	COR
		ACCESS RESTRICTED (BY PREVIOUS ACQUISITION/CONTROL)	ACC
		ACCESS RESTRICTED (BY ACQUISITION)	ACC
		NO ACCESS (BY STATUTORY AUTHORITY)	NOA
		SECTION LINE	SEC
		QUARTER LINE	QUA
		SIXTEENTH LINE	SIX
		EXISTING CENTERLINE	EXC
		PROPOSED REFERENCE LINE	PRO
		PARALLEL OFFSET	PAR

CONVENTIONAL UTILITY SYMBOLS	
WATER	W
GAS	G
TELEPHONE	T
OVERHEAD	OH
TRANSMISSION LINES	TR
ELECTRIC	E
CABLE TELEVISION	TV
FIBER OPTIC	FO
SANITARY SEWER	SS
STORM SEWER	SS
POWER POLE	PP
TELEPHONE POLE	TP
TELEPHONE PEDESTAL	TPD
ELECTRIC TOWER	ET

TRANSPORTATION PROJECT PLAT NO: 6520-03-21 - 4.09

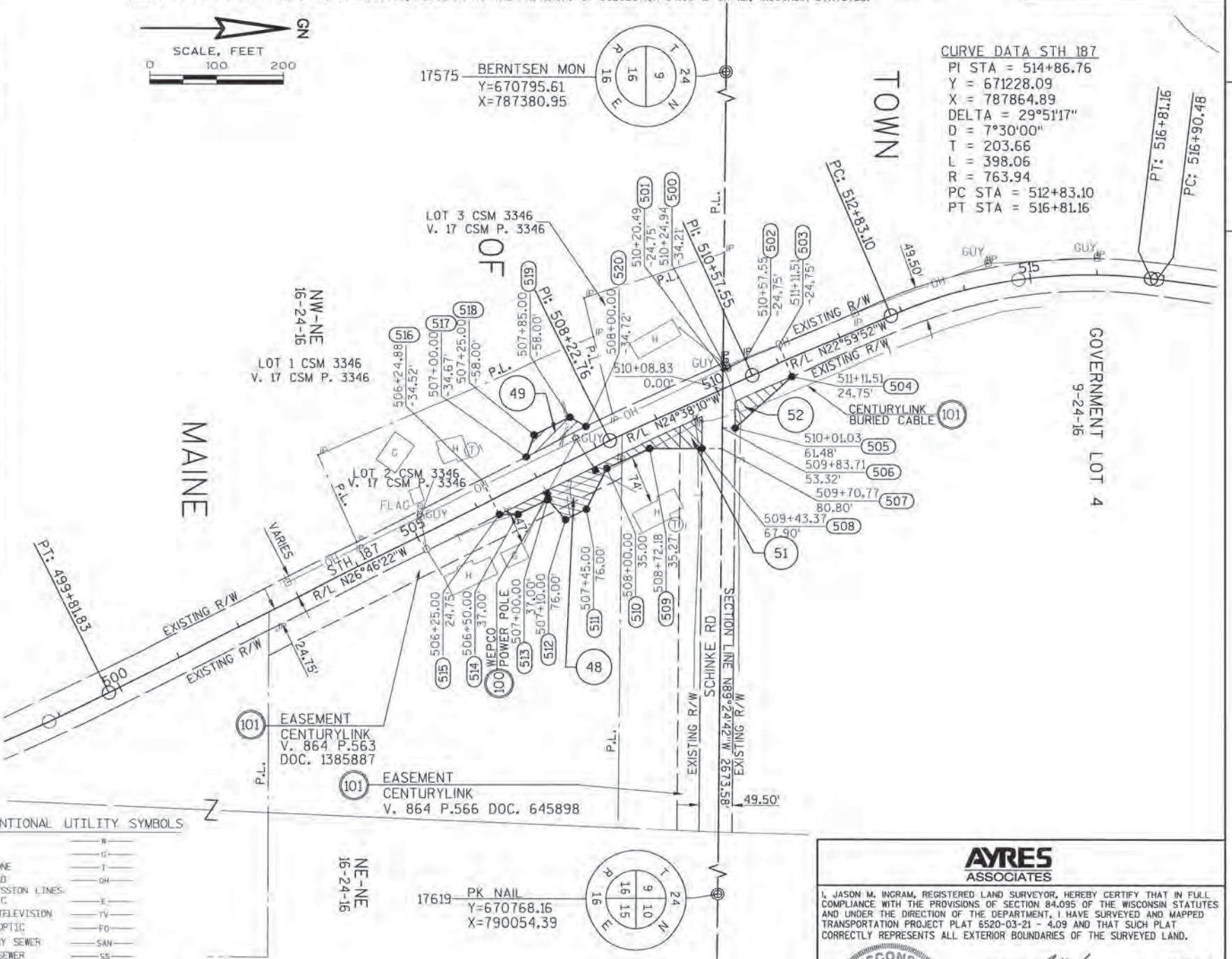
PART OF LOT 2 OF CERTIFIED SURVEY MAP NO. 3346, RECORDED IN VOLUME 17 OF CERTIFIED SURVEY MAPS, PAGE 3346 IN THE NW 1/4 OF THE NE 1/4 OF SECTION 16, ALSO PART OF GOVERNMENT LOT 4, SECTION 9 AND PART OF SAID NW 1/4 OF THE NE 1/4 OF SECTION 16, ALL IN TOWNSHIP 24 NORTH, RANGE 16 EAST, TOWN OF MAINE, OUTAGAMIE COUNTY, WISCONSIN.

RELOCATION ORDER STH 187 OUTAGAMIE 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 NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTIONS 84.02 (3), 84.09 AND 84.30, 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 NAMED 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 SUBSECTION 84.09 (1) OR (2), WISCONSIN STATUTES.



CURVE DATA STH 187
 PI STA = 514+86.76
 Y = 671228.09
 X = 787864.89
 DELTA = 29°51'17"
 D = 7°30'00"
 T = 203.66
 L = 398.06
 R = 763.94
 PC STA = 512+83.10
 PT STA = 516+81.16

Document: 2005233
 Date: 12-18-2013 Time: 08:35 AM Page: 1
 For: \$25.00 County: OUTAGAMIE State: WI
 SARAH R VAN CAMP
 REGISTER OF DEEDS
 The above recording into public records is a true and correct copy of the original as recorded and returned to the State of Wisconsin

RESERVED FOR REGISTER OF DEEDS
 PROJECT NUMBER 6520-03-21-4.09
 AMENDMENT NO:...

AYRES ASSOCIATES

I, JASON M. INGRAM, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 6520-03-21 - 4.09 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

SIGNATURE *[Signature]* DATE 10-7-13
 PRINTED NAME JASON M. INGRAM
 REGISTRATION NUMBER S-2630

SIGNATURE *[Signature]* DATE 12-12-2013
 PRINTED NAME CURT VAN EREM

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W NEW ACRES	R/W EXISTING ACRES	R/W TOTAL ACRES	TLE ACRES
57	WAYNE R. & CAROL L. REESE	FEE	0.10	0.10	0.20	-----
67	MARCELLA REESE	FEE	0.44	0.52	0.96	-----
68	DONALD G. & JEANNE REESE	FEE	0.13	0.12	0.25	-----

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

UTILITY INTERESTS REQUIRED		
PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED
101	CENTURYLINK	RELEASE OR RIGHTS

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATES OUTAGAMIE COUNTY ZONE, NAD83 (2007) IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICALLY 1" X 24" IRON PIPE) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

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

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

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: EXISTING HIGHWAY RIGHT-OF-WAY FOR STH 187 AND SIDE ROADS ESTABLISHED FROM TRANSPORTATION PROJECT PLAT 6520-03-00-4.73.

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO NEW REFERENCE LINES FEE TITLE TO ALL THOSE LANDS OF THE GRANTOR CURRENTLY USED FOR HIGHWAY PURPOSES, DESIGNATED AS EXISTING RIGHT OF WAY, WHETHER ACQUIRED BY SEPARATE CONVEYANCE OR OTHERWISE, BOUND BY THE TRAVERSE OF THE COURSE TABLE OF NEW RIGHT OF WAY AS SHOWN ON THE SAID TRANSPORTATION PLAT.

CONVENTIONAL ABBREVIATIONS			
ACCESS POINT / DRIVEWAY CONNECTION	AP	RELEASE OF RIGHTS	ROR
ACCESS RIGHTS	AR	REMAINING	REM.
ACRES	AC.	RIGHT-OF-WAY	R/W
AND OTHERS	ET. AL.	SECTION	SEC.
CENTERLINE	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		

CONVENTIONAL SYMBOLS			
1" UNLESS NOTED	PROPOSED R/W LINE	EXISTING H.E. LINE	PROPERTY LINE
LOT & TIE LINES	SLOPE INTERCEPTS	CORPORATE LIMITS	ACCESS RESTRICTED (BY PREVIOUS ACQUISITION/CONTROL)
ACCESS RESTRICTED (BY ACQUISITION)	NO ACCESS (BY STATUTORY AUTHORITY)	SECTION LINE	QUARTER LINE
SIXTEENTH LINE	EXISTING CENTERLINE	PROPOSED REFERENCE LINE	PARALLEL OFFSET

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

TRANSPORTATION PROJECT PLAT NO: 6520-03-21 - 4.10 AMENDMENT NO: 1

AMENDS PARCELS 57, 67, AND 68 OF TRANSPORTATION PROJECT PLAT 6520-03-21-4.10, RECORDED AS DOCUMENT NO: 2005234 THAT PART OF GOVERNMENT LOT 2, SECTION 9, TOWNSHIP 24 NORTH, RANGE 16 EAST, TOWN OF MAINE, OUTAGAMIE COUNTY, WISCONSIN.

RELOCATION ORDER STH 187 OUTAGAMIE 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 NAMED PROJECT.

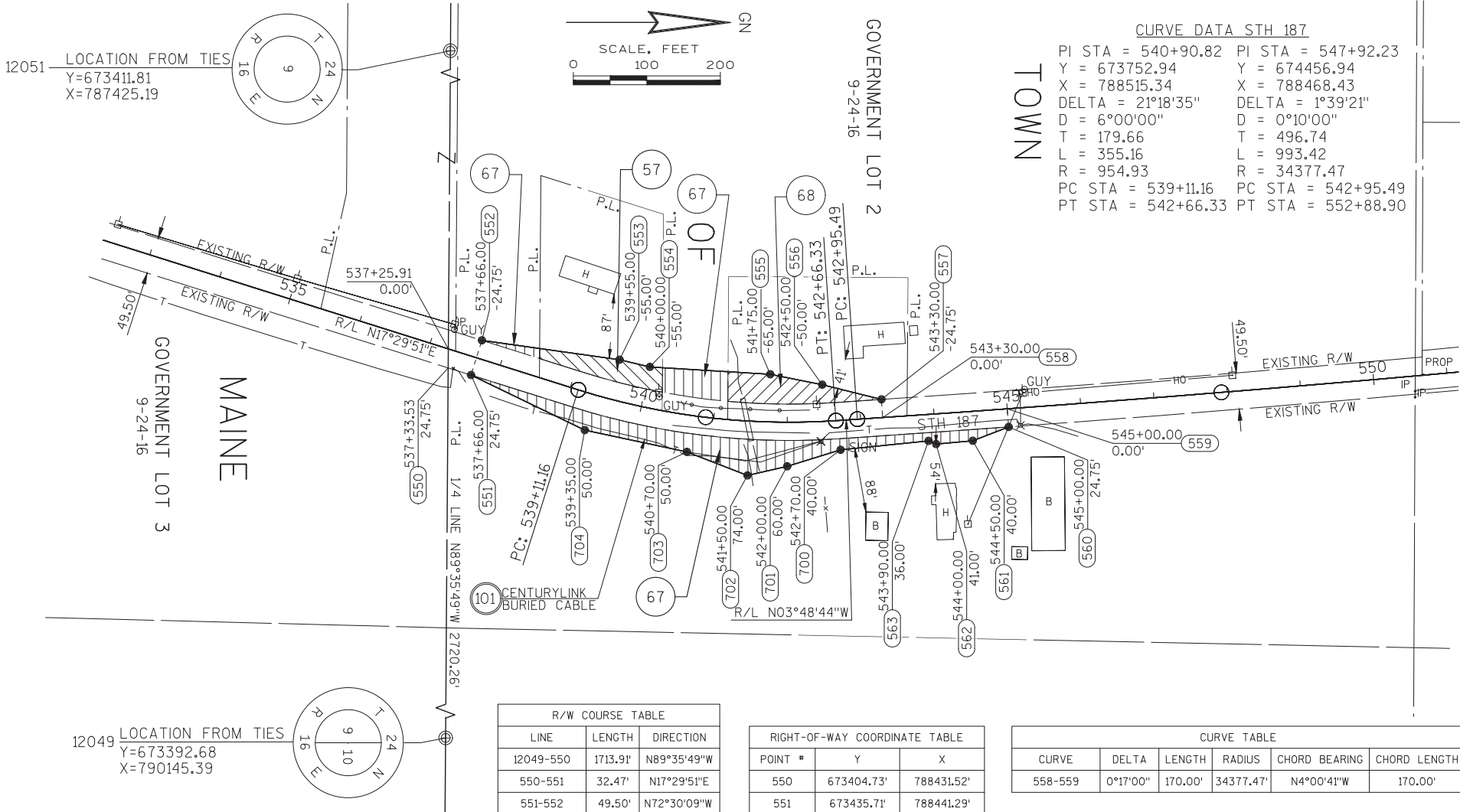
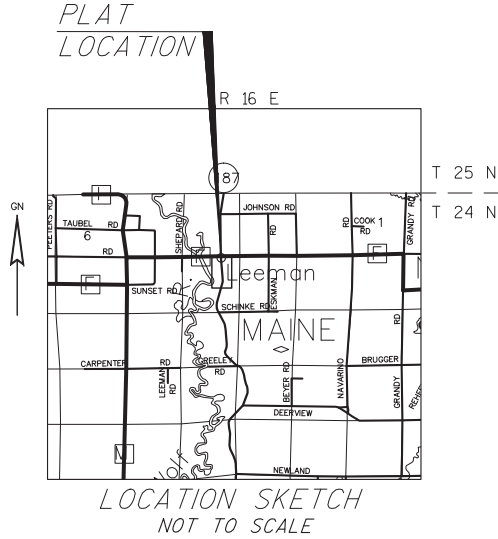
TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTIONS 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

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 NAMED 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 SUBSECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

Document #: 2030271
Date: 11-19-2014 Time: 09:14 AM
Page: 1 of 4
County: OUTAGAMIE COUNTY State: WI
SARAH R VAN CAMP, REGISTER OF DEEDS
The above recording information verifies this document has been electronically recorded and returned to the submitter

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 6520-03-21-4.10
AMENDMENT NO: 1



R/W COURSE TABLE		
LINE	LENGTH	DIRECTION
12049-550	1713.91'	N89°35'49"W
550-551	32.47'	N17°29'51"E
551-552	49.50'	N72°30'09"W
552-553	189.05'	N7°59'57"E
553-554	42.40'	N13°31'03"E
554-555	164.08'	N3°26'17"E
555-556	72.04'	N11°25'32"E
556-557	83.09'	N13°57'48"E
557-558	24.75'	N86°07'50"E
558-559	SEE CURVE TABLE	
559-560	24.75'	N85°50'49"E
560-561	52.32'	S21°03'29"E
561-562	50.07'	S5°10'21"E
562-563	11.19'	S22°33'41"W
563-700	120.17'	S5°46'54"E
700-701	76.16'	S17°08'13"E
701-702	55.30'	S12°59'30"E
702-703	88.48'	S21°17'30"W
703-704	141.95'	S12°01'03"W
704-551	172.06'	S25°49'51"W

RIGHT-OF-WAY COORDINATE TABLE		
POINT #	Y	X
550	673404.73'	788431.52'
551	673435.71'	788441.29'
552	673450.59'	788394.08'
553	673637.80'	788420.38'
554	673679.03'	788430.29'
555	673842.81'	788440.13'
556	673913.42'	788454.40'
557	673994.06'	788474.45'
558	673995.73'	788499.15'
559	674165.31'	788487.26'
560	674167.10'	788511.94'
561	674118.28'	788530.74'
562	674068.41'	788535.25'
563	674058.08'	788530.96'
700	673938.52'	788543.07'
701	673865.74'	788565.51'
702	673811.86'	788577.94'
703	673729.41'	788545.81'
704	673590.58'	788516.26'

CURVE TABLE					
CURVE	DELTA	LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
558-559	0°17'00"	170.00'	34377.47'	N4°00'41"W	170.00'

AYRES ASSOCIATES

I, JASON M. INGRAM, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 6520-03-21 - 4.10 AMENDMENT NO. 1 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

SIGNATURE [Signature] DATE 11/13/2014
PRINTED NAME JASON M. INGRAM
REGISTRATION NUMBER 5-2630
THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION
SIGNATURE [Signature] DATE 11/14/2014
PRINTED NAME CURT VAN EREM

SCHEDULE OF LANDS & INTERESTS REQUIRED

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W NEW ACRES	R/W EXISTING ACRES	R/W TOTAL ACRES	TLE ACRES
57	WAYNE R. & CAROL L. REESE	FEE	0.12	0.10	0.22	---
67	MARCELLA REESE	FEE	0.69	0.52	1.21	---
68	DONALD G. & JEANNE REESE	FEE	0.21	0.14	0.35	---

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

UTILITY INTERESTS REQUIRED

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED
101	CENTURYLINK	RELEASE OR RIGHTS

TRANSPORTATION PROJECT PLAT NO: 6520-03-21 - 4.10

THAT PART OF GOVERNMENT LOT 2, SECTION 9, TOWNSHIP 24 NORTH, RANGE 16 EAST, TOWN OF MAINE, OUTAGAMIE COUNTY, WISCONSIN.

RELOCATION ORDER STH 187 OUTAGAMIE 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 NAMED PROJECT.

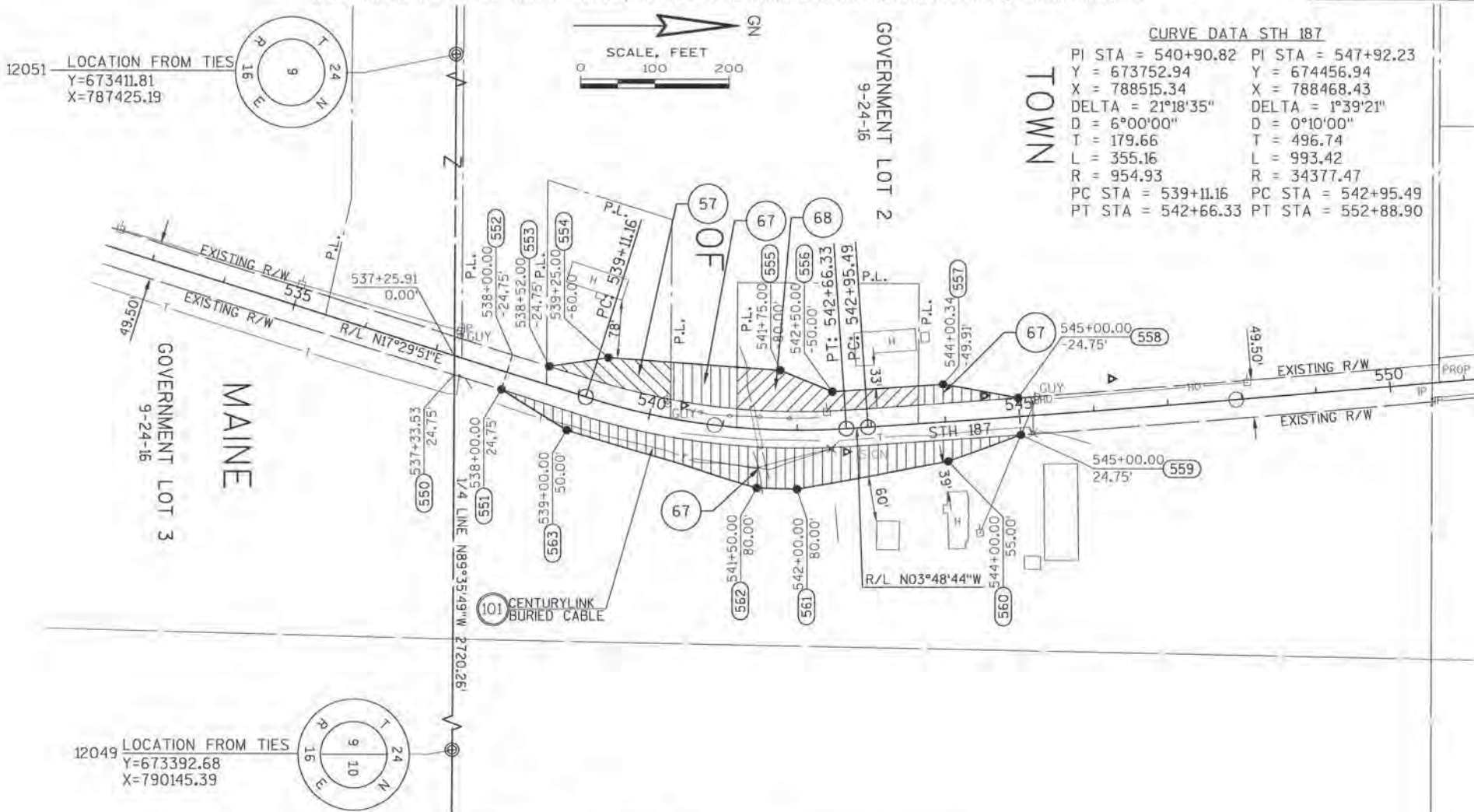
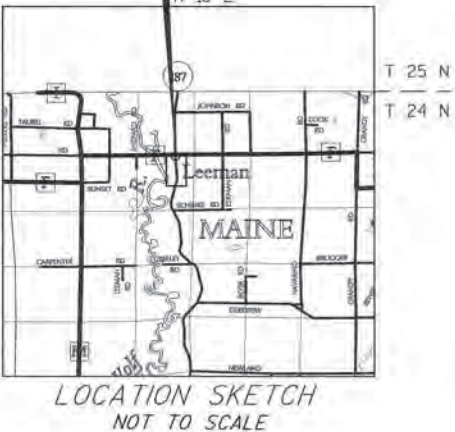
TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTIONS 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE NAMED 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 SUBSECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

Document # 2005234
Date: 12-18-2013 Time: 08:36 AM Page: 1
Fee: \$25.00 County: OUTAGAMIE State: WI

SARAH R VAN CAMP
REGISTER OF DEEDS
The above recording information varies
in accordance with the actual
recorded and returned to the submitter.

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 6520-03-21-4.10
AMENDMENT NO:---

PLAT LOCATION



NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATES OUTAGAMIE COUNTY ZONE, NAD83 (2007) IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICALLY 1" X 24" IRON PIPE) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

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

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

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: EXISTING HIGHWAY RIGHT-OF-WAY FOR STH 187 AND SIDE ROADS ESTABLISHED FROM TRANSPORTATION PROJECT PLAT 6520-03-00-4.73.

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO NEW REFERENCE LINES FEE TITLE TO ALL THOSE LANDS OF THE GRANTOR CURRENTLY USED FOR HIGHWAY PURPOSES, DESIGNATED AS EXISTING RIGHT OF WAY, WHETHER ACQUIRED BY SEPARATE CONVEYANCE OR OTHERWISE, BOUND BY THE TRAVERSE OF THE COURSE TABLE OF NEW RIGHT OF WAY AS SHOWN ON THE SAID TRANSPORTATION PLAT.

CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	RELEASE OF RIGHTS	ROR	FOUND IRON PIPE/PIN	IP
ACCESS RIGHTS	AR	REMAINING	REM.	R/W MONUMENT	R/M
ACRES	AC.	RIGHT-OF-WAY	R/W	R/W STANDARD	R/S
AND OTHERS	ET AL.	SECTION	SEC.	SIGN	S
CENTERLINE	C/L	STATION	STA.	SECTION CORNER MONUMENT	SCM
CERTIFIED SURVEY MAP	CSM	TEMPORARY LIMITED EASEMENT	TLE	SECTION CORNER SYMBOL	SCS
CORNER	COR.	VOLUME	V.		
DOCUMENT	DOC.				
EASEMENT	EASE.				
HIGHWAY EASEMENT	H.E.	LONG CHORD	LC		
LAND CONTRACT	L.C.	LONG CHORD BEARING	LCB		
MONUMENT	MON.	RADIUS	R		
PAGE	P.	DEGREE OF CURVE	D		
PERMANENT LIMITED EASEMENT	P.L.E.	CENTRAL ANGLE OR DELTA	DELTA		
PROPERTY LINE	PL	LENGTH OF CURVE	L		
RECORDED AS	(100')	TANGENT	TAN		
REFERENCE LINE	R/L				

CONVENTIONAL SYMBOLS

PROPOSED R/W LINE	---
EXISTING H.E. LINE	---
PROPERTY LINE	---
LOT & TIE LINES	---
SLOPE INTERCEPTS	---
CORPORATE LIMITS	---
ACCESS RESTRICTED (BY PREVIOUS ACQUISITION/CONTROL)	---
ACCESS RESTRICTED (BY ACQUISITION)	---
NO ACCESS (BY STATUTORY AUTHORITY)	---
SECTION LINE	---
QUARTER LINE	---
SIXTEENTH LINE	---
EXISTING CENTERLINE	---
PROPOSED REFERENCE LINE	---
PARALLEL OFFSET	---

CONVENTIONAL UTILITY SYMBOLS

WATER	---
GAS	---
TELEPHONE	---
OVERHEAD	---
TRANSMISSION LINES	---
ELECTRIC	---
CABLE TELEVISION	---
FIBER OPTIC	---
SANITARY SEWER	---
STORM SEWER	---
POWER POLE	---
TELEPHONE POLE	---
TELEPHONE PEDESTAL	---
ELECTRIC TOWER	---

R/W COURSE TABLE

LINE	LENGTH	DIRECTION
12049-550	1713.91'	N89°35'49"W
550-551	66.47'	N17°29'51"E
551-552	49.50'	N72°30'09"W
552-553	52.00'	N17°29'51"E
553-554	80.32'	N8°36'26"W
554-555	231.86'	N4°15'41"E
555-556	76.04'	N22°38'12"E
556-557	149.33'	N3°47'23"W
557-558	102.68'	N10°06'58"E
558-559	49.50'	N85°50'49"E
559-560	104.59'	S20°52'54"E
560-561	206.91'	S10°06'02"E
561-562	54.18'	S1°40'03"W
562-563	267.33'	S17°01'33"W
563-551	103.14'	S31°40'07"W

RIGHT-OF-WAY COORDINATE TABLE

POINT #	Y	X
550	673404.73'	788431.52'
551	673468.13'	788451.51'
552	673483.02'	788404.30'
553	673532.61'	788419.93'
554	673612.03'	788407.91'
555	673843.25'	788425.14'
556	673913.43'	788454.41'
557	674062.44'	788444.54'
558	674163.52'	788462.57'
559	674167.11'	788511.94'
560	674069.39'	788549.22'
561	673865.69'	788585.51'
562	673811.53'	788583.93'
563	673555.91'	788505.66'

AVRES
ASSOCIATES

I, JASON M. INGRAM, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 6520-03-21 - 4.10 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.



SIGNATURE *J. M. Ingram* DATE 10-7-13
PRINTED NAME JASON M. INGRAM
REGISTRATION NUMBER S-2630
THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION
SIGNATURE *Curt Van Erem* DATE 12-12-2013
PRINTED NAME CURT VAN EREM

SCHEDULE OF LANDS & INTERESTS REQUIRED

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W NEW ACRES	R/W EXISTING ACRES	R/W TOTAL ACRES	TLE ACRES
54	WAYNE R., CAROL L., DONALD G., & JEANNE REESE	FEE	0.02	0.03	0.05	----
56	LEEMAN ESTATES, LLC	FEE	0.06	----	0.06	----
55	GARY L. & DIANE M. SHEPARD	FEE	0.30	0.18	0.48	----
58	WAYNE R. & CAROL L. REESE DONALD G. & JEANNE REESE	FEE	0.20	0.15	0.35	----

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

UTILITY INTERESTS REQUIRED

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED
100	WISCONSIN ELECTRIC POWER COMPANY (WEPCO)	RELEASE OF RIGHTS
101	CENTURYLINK	RELEASE OF RIGHTS

TRANSPORTATION PROJECT PLAT NO: 6520-03-21 - 4.11
AMENDMENT NO: 1

REMOVES PARCEL 57 AND ADDS PARCEL 55 TO TRANSPORTATION PROJECT PLAT 6520-03-21-4.11, RECORDED AS DOCUMENT NO: 2005235
PART OF LOT 1 OF CERTIFIED SURVEY MAP NO. 6446, RECORDED IN VOLUME 38 OF CERTIFIED SURVEY MAPS, PAGE 6446 AND IN GOVERNMENT LOT 1, SECTION 9, ALSO THAT PART OF THE SW 1/4 OF THE SE 1/4 OF SECTION 4 AND THAT PART OF SAID GOVERNMENT LOT 1, SECTION 9, ALL IN TOWNSHIP 24 NORTH, RANGE 16 EAST, TOWN OF MAINE, OUTAGAMIE COUNTY, WISCONSIN.

RELOCATION ORDER STH 187 OUTAGAMIE 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 NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTIONS 84.02 (3), 84.09 AND 84.30, 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 NAMED 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 SUBSECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

Document #: 2030272

Date: 11-19-2014 Time: 09:15 AM

Pages: 1 of 1 \$25.00

County: OUTAGAMIE COUNTY State: WI

SARAH R VAN CAMP, REGISTER OF DEEDS

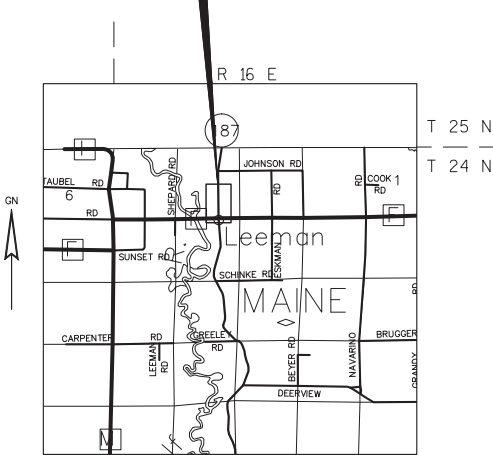
The above recording information verifies this document has been electronically recorded and returned to the submitter

RESERVED FOR REGISTER OF DEEDS

PROJECT NUMBER 6520-03-21-4.11

AMENDMENT NO: 1

PLAT LOCATION



LOCATION SKETCH
NOT TO SCALE

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATES OUTAGAMIE COUNTY ZONE, NAD83 (2007) IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICALLY 1" X 24" IRON PIPE) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS OF PUBLIC RECORD". PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY LINES, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: EXISTING HIGHWAY RIGHT-OF-WAY FOR STH 187 AND SIDE ROADS ESTABLISHED FROM TRANSPORTATION PROJECT PLAT 6520-03-00-4.74 AND 6520-03-00-4.75.

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO NEW REFERENCE LINES FEE TITLE TO ALL THOSE LANDS OF THE GRANTOR CURRENTLY USED FOR HIGHWAY PURPOSES, DESIGNATED AS EXISTING RIGHT OF WAY, WHETHER ACQUIRED BY SEPARATE CONVEYANCE OR OTHERWISE, BOUND BY THE TRAVERSE OF THE COURSE TABLE OF NEW RIGHT OF WAY AS SHOWN ON THE SAID TRANSPORTATION PLAT.

CONVENTIONAL ABBREVIATIONS

ACCESS POINT / DRIVEWAY CONNECTION	AP	RELEASE OF RIGHTS	ROR	FOUND IRON PIPE/PIN	IP
ACCESS RIGHTS	AR	REMAINING	REM.	R/W MONUMENT	R/W
ACRES	AC.	RIGHT-OF-WAY	R/W	R/W STANDARD	STA.
AND OTHERS	ET. AL.	SECTION	SEC.	SIGN	SIGN
CENTERLINE	C/L	STATION	STA.	SECTION CORNER MONUMENT	SCM
CERTIFIED SURVEY MAP	CSM	TEMPORARY LIMITED EASEMENT	TLE	SECTION CORNER SYMBOL	SCS
CORNER	COR.	VOLUME	V.		
DOCUMENT	DOC.				
EASEMENT	EASE.				
HIGHWAY EASEMENT	H.E.	LONG CHORD	LCH	FEE (HATCH VARIES)	FEE
LAND CONTRACT	LC	LONG CHORD BEARING	LCB	TEMPORARY LIMITED EASEMENT	TLE
MONUMENT	MON.	RADIUS	R	PERMANENT LIMITED EASEMENT	PLE
PAGE	P.	DEGREE OF CURVE	D	R/W BOUNDARY POINT	R/W
PERMANENT LIMITED EASEMENT	PLE	CENTRAL ANGLE OR DELTA	DELTA	PARCEL NUMBER	PN
PROPERTY LINE	PL	LENGTH OF CURVE	L	UTILITY INTEREST	UI
RECORDED AS	(100')	TANGENT	TAN	SIGN NUMBER (OFF PREMISE)	SN
REFERENCE LINE	R/L			BUILDING	B

CONVENTIONAL SYMBOLS

PROPOSED R/W LINE	---
EXISTING H.E. LINE	---
PROPERTY LINE	---
LOT & TIE LINES	---
SLOPE INTERCEPTS	---
CORPORATE LIMITS	---
ACCESS RESTRICTED (BY PREVIOUS ACQUISITION/CONTROL)	---
ACCESS RESTRICTED (BY ACQUISITION)	---
NO ACCESS (BY STATUTORY AUTHORITY)	---
SECTION LINE	---
QUARTER LINE	---
SIXTEENTH LINE	---
EXISTING CENTERLINE	---
PROPOSED REFERENCE LINE	---
PARALLEL OFFSET	---

CONVENTIONAL UTILITY SYMBOLS

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

LINE	LENGTH	DIRECTION
17539-600	849.50'	S89°52'50"E
600-601	138.46'	S89°52'50"E
601-602	45.00'	S0°07'10"W
602-603	149.05'	S42°20'41"W
603-604	24.75'	S84°31'56"W
604-605	130.77'	N5°28'04"W
605-600	27.65'	N1°48'05"W

LINE	LENGTH	DIRECTION
17539-600	849.50'	S89°52'50"E
600-606	681.59'	N1°48'05"W
606-607	24.75'	S88°11'55"W
607-608	104.99'	N33°33'08"W
608-609	153.87'	N0°40'15"W
609-610	93.98'	N37°01'38"E
610-611	49.50'	S88°24'56"E
611-612	165.31'	S17°21'52"E
612-613	64.88'	S1°09'30"E
613-614	102.45'	S27°34'16"W
614-606	24.75'	S88°11'55"W

POINT #	Y	X
600	676036.09'	788319.05'
601	676035.80'	788457.51'
602	675990.80'	788457.42'
603	675880.64'	788357.02'
604	675878.28'	788332.38'
605	676008.45'	788319.92'
606	676717.34'	788297.63'
607	676716.56'	788272.89'
608	676804.06'	788214.86'
609	676957.91'	788213.06'
610	677032.94'	788269.65'
611	677031.57'	788319.13'
612	676873.79'	788368.47'
613	676808.93'	788369.78'
614	676718.11'	788322.36'

AYRES ASSOCIATES



SIGNATURE: [Signature] DATE: 11/13/2014

PRINTED NAME: JASON M. INGRAM

REGISTRATION NUMBER: S-2630

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION

SIGNATURE: [Signature] DATE: 11/14/2014

PRINTED NAME: CURT VAN EREM

99

SCHEDULE OF LANDS & INTERESTS REQUIRED

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W NEW ACRES	R/W EXISTING ACRES	R/W TOTAL ACRES	TLE ACRES
54	LEEMAN ESTATES, LLC	FEE	0.02	0.03	0.05	----
56	GARY L. & DIANE M. SHEPARD	FEE	0.06	----	0.06	----
57	WAYNE R. & CAROL L. REESE	FEE	0.30	0.18	0.48	----
58	HAROLD R. JR. & BETTE A. SHEPARD	FEE	0.20	0.15	0.35	----

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

UTILITY INTERESTS REQUIRED

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED
100	WISCONSIN ELECTRIC POWER COMPANY (WEPCO)	RELEASE OF RIGHTS
101	CENTURYLINK	RELEASE OF RIGHTS

TRANSPORTATION PROJECT PLAT NO: 6520-03-21 - 4.11

PART OF LOT 1 OF CERTIFIED SURVEY MAP NO. 6446, RECORDED IN VOLUME 38 OF CERTIFIED SURVEY MAPS, PAGE 6446 AND IN GOVERNMENT LOT 1, SECTION 9, ALSO THAT PART OF THE SW 1/4 OF THE SE 1/4 OF SECTION 4 AND THAT PART OF SAID GOVERNMENT LOT 1, SECTION 9, ALL IN TOWNSHIP 24 NORTH, RANGE 16 EAST, TOWN OF MAINE, OUTAGAMIE COUNTY, WISCONSIN.

RELOCATION ORDER STH 187 OUTAGAMIE COUNTY

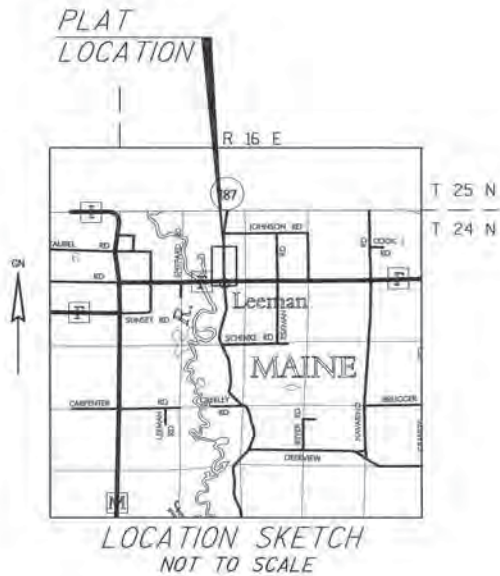
TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN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

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTIONS 84.02 (3), 84.09 AND 84.30, 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 NAMED 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 SUBSECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

Document #: 2005235
Date: 12-18-2013 Time: 08:37 AM Pages: 1
Fee: \$25.00 County: OUTAGAMIE State: WI

SARAH R VAN CAMP
REGISTER OF DEEDS
The recording information on this document has been electronically recorded and returned to the submitter

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 6520-03-21-4.11
AMENDMENT NO: _____



NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATES OUTAGAMIE COUNTY ZONE, NAD83 (2007) IN U.S. SURVEY FEET, VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.
RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICALLY 1" X 24" IRON PIPE) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.
RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS OF PUBLIC RECORD".
PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY LINES, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.
EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: EXISTING HIGHWAY RIGHT-OF-WAY FOR STH 187 AND SIDE ROADS ESTABLISHED FROM TRANSPORTATION PROJECT PLAT 6520-03-00-4.74 AND 6520-03-00-4.75.
DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO NEW REFERENCE LINES FEE TITLE TO ALL THOSE LANDS OF THE GRANTOR CURRENTLY USED FOR HIGHWAY PURPOSES, DESIGNATED AS EXISTING RIGHT OF WAY, WHETHER ACQUIRED BY SEPARATE CONVEYANCE OR OTHERWISE, BOUND BY THE TRAVERSE OF THE COURSE TABLE OF NEW RIGHT OF WAY AS SHOWN ON THE SAID TRANSPORTATION PLAT.

CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	RELEASE OF RIGHTS REMAINING	ROR	FOUND IRON PIPE/PIN	ROR
ACCESS RIGHTS	AR	RIGHT-OF-WAY	R/W	R/W MONUMENT	R/W
ACRES	AC.	SECTION	SEC.	R/W STANDARD	R/W
AND OTHERS	ET AL.	STATION	STA.	SIGN	SIGN
CENTERLINE	C/L	TEMPORARY LIMITED EASEMENT	TLE	SECTION CORNER MONUMENT	SCM
CERTIFIED SURVEY MAP	CSM	VOLUME	V.	SECTION CORNER SYMBOL	SCS
CORNER	COR.				
DOCUMENT	DOC.				
EASEMENT	EASE.				
HIGHWAY EASEMENT	H.E.				
LAND CONTRACT	LC				
MONUMENT	MON.				
PAGE	P.				
PERMANENT LIMITED EASEMENT	PLE				
PROPERTY LINE	PL				
RECORDED AS	(RCD)				
REFERENCE LINE	R/L				

CURVE DATA

LONG CHORD	LC
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE OR DELTA	DELTA
LENGTH OF CURVE	L
TANGENT	TAN

CONVENTIONAL SYMBOLS

PROPOSED R/W LINE	---
EXISTING H.E. LINE	---
PROPERTY LINE	---
LOT & TIE LINES	---
SLOPE INTERCEPTS	---
CORPORATE LIMITS	---
ACCESS RESTRICTED (BY PREVIOUS ACQUISITION/CONTROL)	---
NO ACCESS (BY STATUTORY AUTHORITY)	---
SECTION LINE	---
QUARTER LINE	---
SIXTEENTH LINE	---
EXISTING CENTERLINE	---
PROPOSED REFERENCE LINE	---
PARALLEL OFFSET	---

CONVENTIONAL UTILITY SYMBOLS

WATER	---
GAS	---
TELEPHONE	---
OVERHEAD TRANSMISSION LINES	---
ELECTRIC	---
CABLE TELEVISION	---
FIBER OPTIC	---
SANITARY SEWER	---
STORM SEWER	---
POWER POLE	---
TELEPHONE POLE	---
TELEPHONE PEDESTAL	---
ELECTRIC TOWER	---

LINE	LENGTH	DIRECTION
17539-600	849.50'	S89°52'50"E
600-601	138.46'	S89°52'50"E
601-602	45.00'	S0°07'10"W
602-603	149.05'	S42°20'41"W
603-604	24.75'	S84°31'56"W
604-605	130.77'	N5°28'04"W
605-606	27.65'	N1°48'05"W

LINE	LENGTH	DIRECTION
17539-600	849.50'	S89°52'50"E
600-606	681.59'	N1°48'05"W
606-607	24.75'	S88°11'55"W
607-608	104.99'	N33°33'08"W
608-609	153.87'	N0°40'15"W
609-610	93.98'	N37°01'38"E
610-611	49.50'	S88°24'56"E
611-612	165.31'	S17°21'52"E
612-613	64.88'	S1°09'30"E
613-614	102.45'	S27°34'16"W
614-606	24.75'	S88°11'55"W

POINT	Y	X
600	676036.09'	788319.05'
601	676035.80'	788457.51'
602	675990.80'	788457.42'
603	675880.64'	788357.02'
604	675878.28'	788332.38'
605	676008.45'	788319.92'
606	676717.34'	788297.63'
607	676716.55'	788272.89'
608	676804.06'	788214.86'
609	676957.91'	788213.06'
610	677032.94'	788269.65'
611	677031.57'	788319.13'
612	676873.79'	788368.47'
613	676808.93'	788369.78'
614	676718.11'	788322.36'

AYRES ASSOCIATES

I, JASON M. INGRAM, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 6520-03-21 - 4.11 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

SIGNATURE: *J. Ingram* DATE: 12-7-13
PRINTED NAME: JASON M. INGRAM
REGISTRATION NUMBER: S-2630

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION

SIGNATURE: *Curt Van Erem* DATE: 12-12-2013
PRINTED NAME: CURT VAN EREM

100

SCHEDULE OF LANDS & INTERESTS REQUIRED

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W NEW ACRES	R/W EXISTING ACRES	R/W TOTAL ACRES	TLE ACRES
59	RUSSELL D. & MARGUERITE H. NELSON	FEE	0.10	0.13	0.23	----
61	NATHAN LARSON, MARVIN LARSON, GERALD LARSON	FEE	0.17	0.23	0.40	----
62	BRUCE H. & RACHEL A. GUNDERSON	FEE	0.18	0.18	0.36	----
63	LARRY L. & RITA R. COX	FEE	0.13	0.11	0.24	----

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

UTILITY INTERESTS REQUIRED

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED
100	WISCONSIN ELECTRIC POWER COMPANY (WEPCO)	RELEASE OR RIGHTS
101	CENTURYLINK	RELEASE OR RIGHTS

LINE	LENGTH	DIRECTION
17565-650	799.27'	N89°57'18"E
650-651	612.76'	N2°23'03"E
651-652	SEE CURVE TABLE	
652-653	78.67'	N17°12'14"W
653-654	104.24'	N0°36'55"E
654-655	51.46'	N29°28'26"E
655-656	520.18'	N0°05'22"E
656-657	SEE CURVE TABLE	
657-658	111.12'	N19°27'08"W
658-659	78.06'	N5°56'45"E
659-660	49.45'	N66°23'00"E
660-661	49.50'	S81°52'00"E
661-662	81.11'	S18°55'55"E
662-663	57.80'	S4°27'30"W
663-664	121.14'	S0°09'07"E
664-665	24.75'	S0°32'38"W
665-666	14.28'	S89°27'22"E
666-667	24.75'	S0°32'38"W
667-668	135.16'	S22°51'00"W

TRANSPORTATION PROJECT PLAT NO: 6520-03-21 - 4.12

THAT PART OF LOT 3 OF CERTIFIED SURVEY MAP NO. 6453, RECORDED IN VOLUME 38 OF CERTIFIED SURVEY MAPS, PAGE 6453 IN PART OF THE SW 1/4 OF THE NE 1/4 OF SECTION 4, ALSO THAT PART OF THE FRACTIONAL NW 1/4 OF THE NE 1/4 AND THAT PART OF SAID SW 1/4 OF THE NE 1/4, SECTION 4, ALL IN TOWNSHIP 24 NORTH, RANGE 16 EAST, TOWN OF MAINE, OUTAGAMIE COUNTY, WISCONSIN.

RELOCATION ORDER STH 187 OUTAGAMIE 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 NAMED PROJECT.

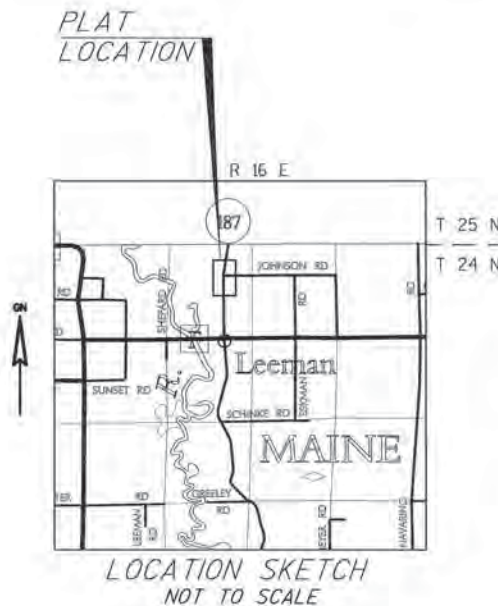
TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTIONS 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE NAMED 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 SUBSECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

LINE	LENGTH	DIRECTION
668-669	316.08'	S0°05'22"W
669-670	81.11'	S21°44'51"E
670-671	50.48'	S0°38'28"W
671-672	119.68'	S16°06'20"W
672-673	SEE CURVE TABLE	
673-674	610.66'	S2°23'03"W
674-650	49.54'	S89°57'18"W

CURVE	DELTA	LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
651-652	0°29'35"	49.08'	5704.83'	N2°08'15"E	49.08'
656-657	1°02'38"	30.27'	1661.77'	N0°36'41"E	30.27'
672-673	0°20'35"	34.44'	5754.33'	S2°12'45"W	34.44'

CURVE DATA STH 187

PI STA = 597+65.45
Y = 679421.26
X = 788374.18
DELTA = 2°17'41"
D = 1°00'00"
T = 114.74
L = 229.46
R = 5729.58
PC STA = 596+50.70
PT STA = 598+80.16



NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATES OUTAGAMIE COUNTY ZONE, NAD83 (2007) IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICALLY 1" X 24" IRON PIPE) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS OF PUBLIC RECORD". PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY LINES, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: EXISTING HIGHWAY RIGHT-OF-WAY FOR STH 187 AND SIDE ROADS ESTABLISHED FROM TRANSPORTATION PROJECT PLAT 6520-03-00-4.77 AND 6520-03-00-4.78.

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO NEW REFERENCE LINES FEE TITLE TO ALL THOSE LANDS OF THE GRANTOR CURRENTLY USED FOR HIGHWAY PURPOSES, DESIGNATED AS EXISTING RIGHT OF WAY, WHETHER ACQUIRED BY SEPARATE CONVEYANCE OR OTHERWISE, BOUND BY THE TRAVERSE OF THE COURSE TABLE OF NEW RIGHT OF WAY AS SHOWN ON THE SAID TRANSPORTATION PLAT.

CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	RELEASE OF RIGHTS	ROR	FOUND IRON PIPE/PIN	IF UNLESS NOTED
ACCESS RIGHTS	AR	REMAINING	REM.		
ACRES	AC.	RIGHT-OF-WAY	R/W	R/W MONUMENT	MON.
AND OTHERS	ET AL.	SECTION	SEC.	R/W STANDARD	STN.
CENTERLINE	C/L	STATION	STA.	SECTION CORNER MONUMENT	SCM
CERTIFIED SURVEY MAP	CSM	TEMPORARY LIMITED EASEMENT	TLE	SECTION CORNER SYMBOL	SCS
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	(1901)				
REFERENCE LINE	R/L				

CONVENTIONAL SYMBOLS

PROPOSED R/W LINE	---
EXISTING H.E. LINE	---
PROPERTY LINE	---
LOT & TIE LINES	---
SLOPE INTERCEPTS	---
CORPORATE LIMITS	---
ACCESS RESTRICTED BY PREVIOUS ACQUISITION/CONTROL	---
ACCESS RESTRICTED (BY ACQUISITION)	---
NO ACCESS (BY STATUTORY AUTHORITY)	---
SECTION LINE	---
QUARTER LINE	---
SIXTEENTH LINE	---
EXISTING CENTERLINE	---
PROPOSED REFERENCE LINE	---
PARALLEL OFFSET	---

CONVENTIONAL UTILITY SYMBOLS

WATER	---
GAS	---
TELEPHONE	---
OVERHEAD	---
TRANSMISSION LINES	---
ELECTRIC	---
CABLE TELEVISION	---
FIBER OPTIC	---
SANITARY SEWER	---
STORM SEWER	---
POWER POLE	---
TELEPHONE POLE	---
TELEPHONE PEDESTAL	---
ELECTRIC TOWER	---

POINT #	Y	X
650	678695.41'	788319.19'
651	679307.65'	788344.68'
652	679356.70'	788346.51'
653	679431.85'	788323.24'
654	679536.08'	788324.36'
655	679580.88'	788349.68'
656	680101.06'	788350.49'
657	680131.33'	788350.81'
658	680236.11'	788313.81'
659	680313.75'	788321.89'
660	680333.57'	788367.20'
661	680326.56'	788416.20'
662	680249.84'	788442.52'

POINT #	Y	X
663	680192.22'	788438.03'
664	680071.08'	788438.35'
665	680046.33'	788438.11'
666	680046.19'	788452.39'
667	680021.44'	788452.16'
668	679896.89'	788399.67'
669	679580.81'	788399.18'
670	679505.47'	788429.23'
671	679454.99'	788428.66'
672	679340.01'	788395.46'
673	679305.59'	788394.13'
674	678695.45'	788368.73'

AYRES ASSOCIATES

I, JASON M. INGRAM, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.09 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 6520-03-21 - 4.12 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.



SIGNATURE *JM* DATE 10-7-13
PRINTED NAME JASON M. INGRAM
REGISTRATION NUMBER 5-2630
THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION
SIGNATURE *Curt Van Erem* DATE 12-12-2013
PRINTED NAME CURT VAN EREM

SCHEDULE OF LANDS & INTERESTS REQUIRED

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W NEW ACRES	R/W EXISTING ACRES	R/W TOTAL ACRES	TLE ACRES OR S.F.
69	JOSEPH E. & WENDY JOHNSON, et al	TLE	---	---	---	2056 S.F.

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED
100	WISCONSIN ELECTRIC POWER COMPANY (WEPCO)	RELEASE OR RIGHTS

PLAT LOCATION



LOCATION SKETCH
NOT TO SCALE

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATES OUTAGAMIE COUNTY ZONE, NAD83 (2007) IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICALLY 1" X 24" IRON PIPE) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS OF PUBLIC RECORD". PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY LINES, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: EXISTING HIGHWAY RIGHT-OF-WAY FOR STH 187 AND SIDE ROADS ESTABLISHED FROM TRANSPORTATION PROJECT PLAT 6520-03-00 - 4.05.

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.

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO NEW REFERENCE LINES FEE TITLE TO ALL THOSE LANDS OF THE GRANTOR CURRENTLY USED FOR HIGHWAY PURPOSES, DESIGNATED AS EXISTING RIGHT OF WAY, WHETHER ACQUIRED BY SEPARATE CONVEYANCE OR OTHERWISE, BOUND BY THE TRAVERSE OF THE COURSE TABLE OF NEW RIGHT OF WAY AS SHOWN ON THE SAID TRANSPORTATION PLAT.

CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	RELEASE OF RIGHTS REMAINING	ROR	FOUND IRON PIPE/PIN	IF (UNLESS NOTED)
ACCESS RIGHTS	AR	RIGHT-OF-WAY	R/W	R/W MONUMENT	• (SET)
ACRES	AC.	SECTION	SEC.	R/W STANDARD	• (SET)
AND OTHERS	ET AL.	STATION	STA.	SIGN	(SIGN)
CENTERLINE	C/L	TEMPORARY LIMITED EASEMENT	TLE	SECTION CORNER MONUMENT	• (SET)
CERTIFIED SURVEY MAP	CSM	VOLUME	V.	SECTION CORNER SYMBOL	• (SET)
CORNER	COR.				
DOCUMENT	DOC.				
EASEMENT	EASE.				
HIGHWAY EASEMENT	H.E.				
LAND CONTRACT	L.C.				
MONUMENT	MON.				
PAGE	P.				
PERMANENT LIMITED EASEMENT	P.L.E.				
PROPERTY LINE	P.L.				
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

PROPOSED R/W LINE	---
EXISTING H.E. LINE	---
PROPERTY LINE	---
LOT & TIE LINES	---
SLOPE INTERCEPTS	---
CORPORATE LIMITS	---
ACCESS RESTRICTED (BY PREVIOUS ACQUISITION/CONTROL)	---
ACCESS RESTRICTED (BY ACQUISITION)	---
NO ACCESS (BY STATUTORY AUTHORITY)	---
SECTION LINE	---
QUARTER LINE	---
SIXTEENTH LINE	---
EXISTING CENTERLINE	---
PROPOSED REFERENCE LINE	---
PARALLEL OFFSET	---

CONVENTIONAL UTILITY SYMBOLS

WATER	---
GAS	---
TELEPHONE	---
OVERHEAD	---
TRANSMISSION LINES	---
ELECTRIC	---
CABLE TELEVISION	---
FIBER OPTIC	---
SANITARY SEWER	---
STORM SEWER	---
POWER POLE	---
TELEPHONE POLE	---
TELEPHONE PEDESTAL	---
ELECTRIC TOWER	---

TRANSPORTATION PROJECT PLAT NO: 6520-03-21 - 4.13

PART OF GOVERNMENT LOT 15 IN SECTION 16, TOWNSHIP 23 NORTH, RANGE 16 EAST, TOWN OF BOVINA, OUTAGAMIE COUNTY, WISCONSIN.

RELOCATION ORDER STH 187 OUTAGAMIE 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 NAMED PROJECT.

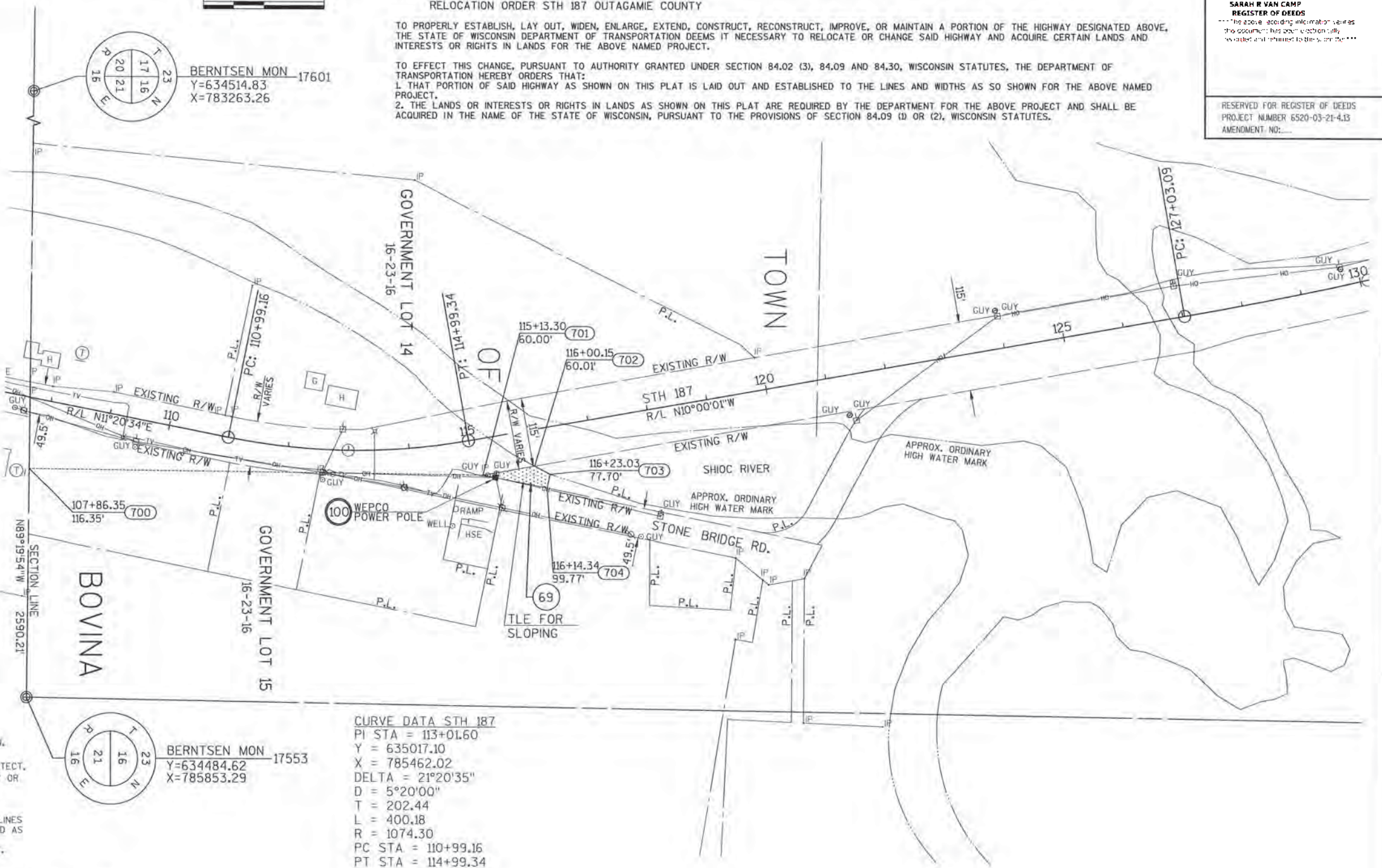
TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAY OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE NAMED 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.

Document No. 2005237
Date: 12-18-2013 11:00 AM
Fee: \$25.00 County: OUTAGAMIE State: WI

SARAH R VAN CAMP
REGISTER OF DEEDS
The above recording information appears on the document has been electronically reviewed and returned to the County Clerk.

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 6520-03-21-4.13
AMENDMENT NO.:



CURVE DATA STH 187

PI STA = 113+01.60
Y = 635017.10
X = 785462.02
DELTA = 21°20'35"
D = 5°20'00"
T = 202.44
L = 400.18
R = 1074.30
PC STA = 110+99.16
PT STA = 114+99.34

LINE	LENGTH	DIRECTION
17553-700	378.56'	N89°19'54"W
700-701	751.65'	N0°40'06"E
701-702	86.84'	N9°59'27"W
702-703	28.92'	N27°42'52"E
703-704	23.72'	S78°30'38"E
704-701	108.58'	S11°29'22"W

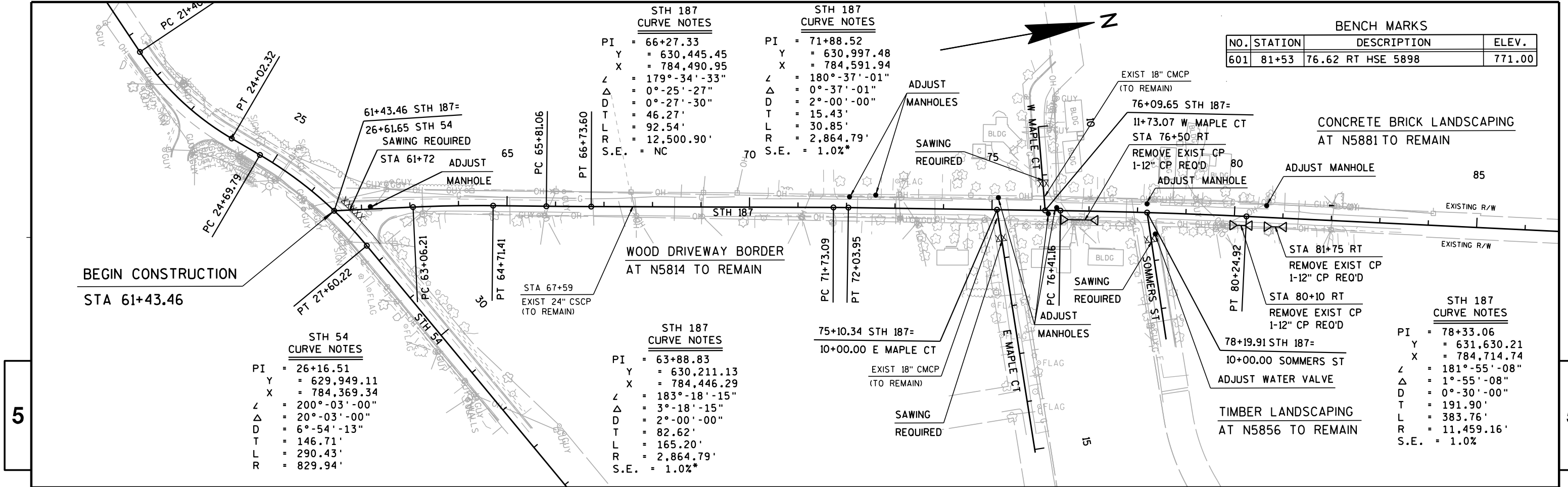
POINT #	Y	X
700	634489.03'	785474.76'
701	635240.63'	785483.53'
702	635326.15'	785468.46'
703	635351.76'	785481.91'
704	635347.03'	785505.15'

AYRES ASSOCIATES

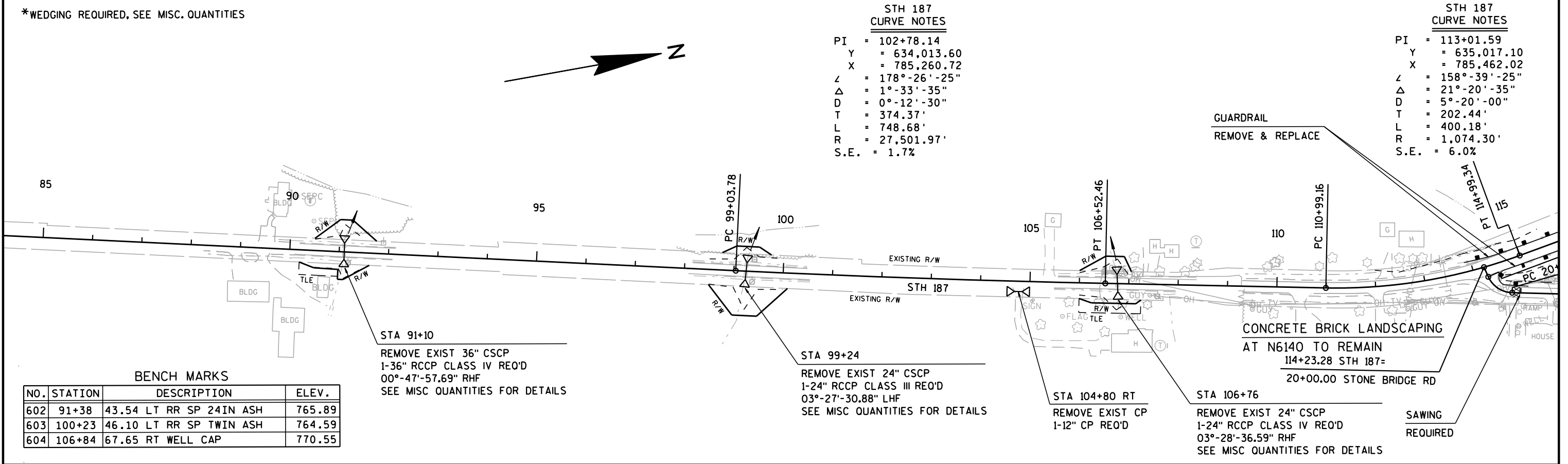
I, JASON M. INGRAM, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 6520-03-21 - 4.13 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

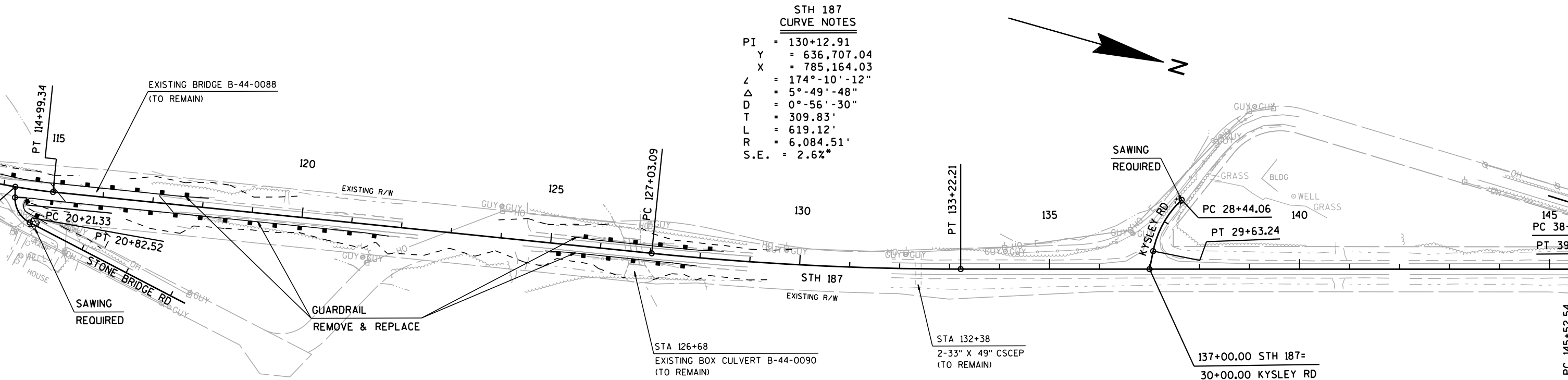


SIGNATURE *[Signature]* DATE 10-7-13
PRINTED NAME JASON M. INGRAM
REGISTRATION NUMBER 5-2630
THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION
SIGNATURE *[Signature]* DATE 12-12-2013
PRINTED NAME CURT VAN EREM



*WEDGING REQUIRED, SEE MISC. QUANTITIES



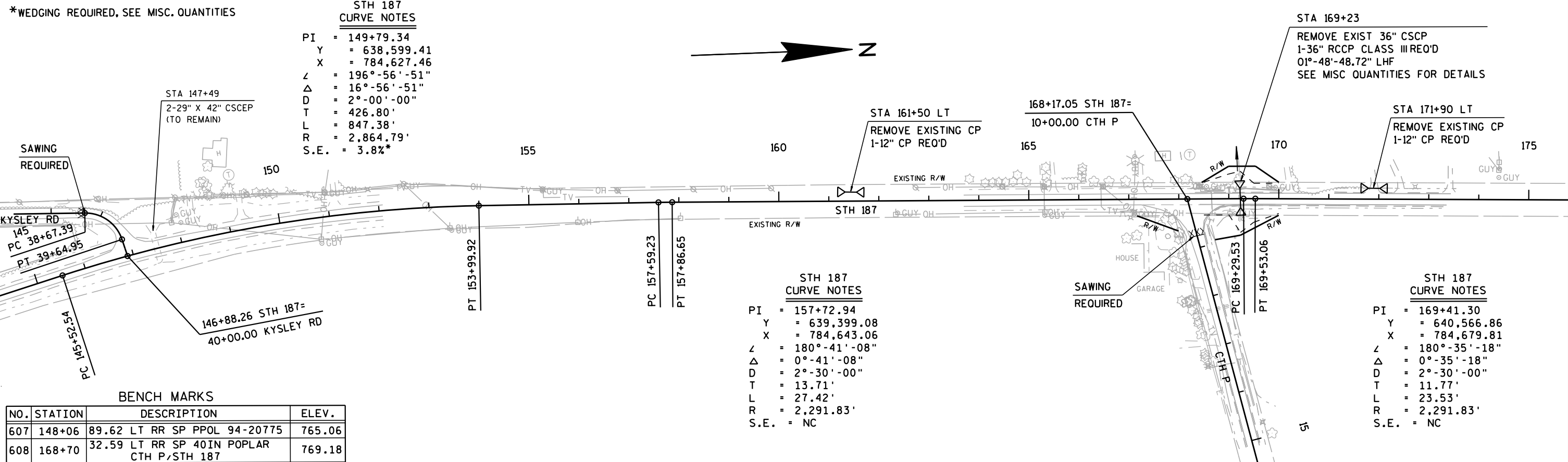


STH 187
 CURVE NOTES
 PI = 130+12.91
 Y = 636,707.04
 X = 785,164.03
 Z = 174°-10'-12"
 Δ = 5°-49'-48"
 D = 0°-56'-30"
 T = 309.83'
 L = 619.12'
 R = 6,084.51'
 S.E. = 2.6%*

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
605	115+28	18.73 RT ALUM CAP B44-8-81	772.82
606	126+59	25.43 RT ALUM CAP B44-90-81	768.96

*WEDGING REQUIRED, SEE MISC. QUANTITIES



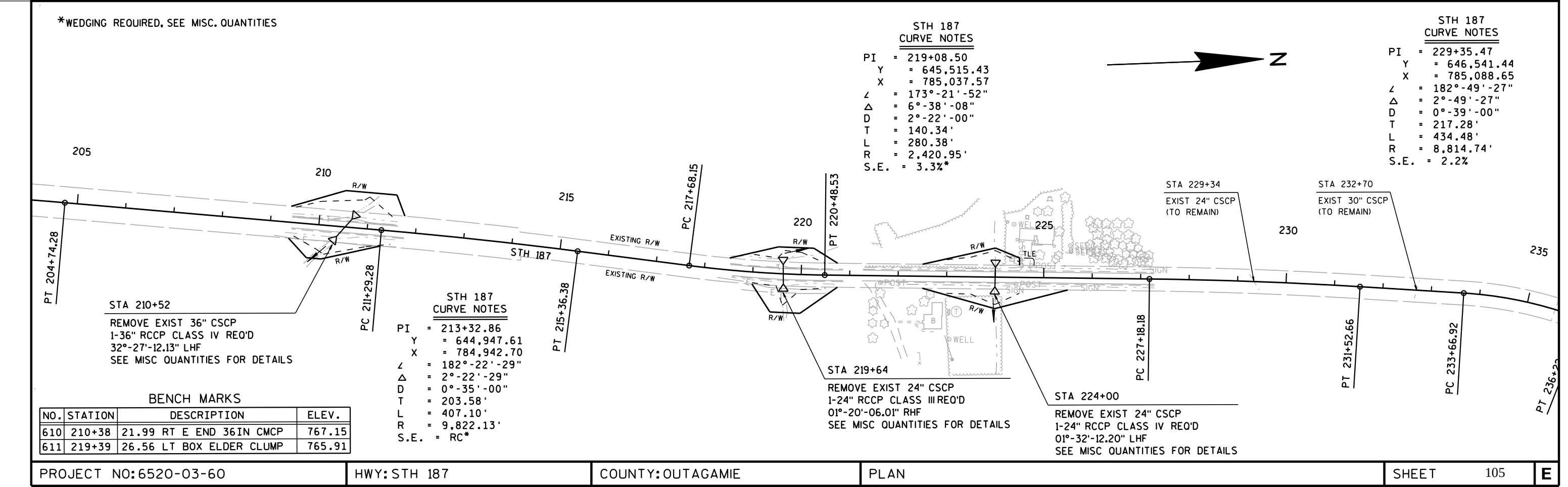
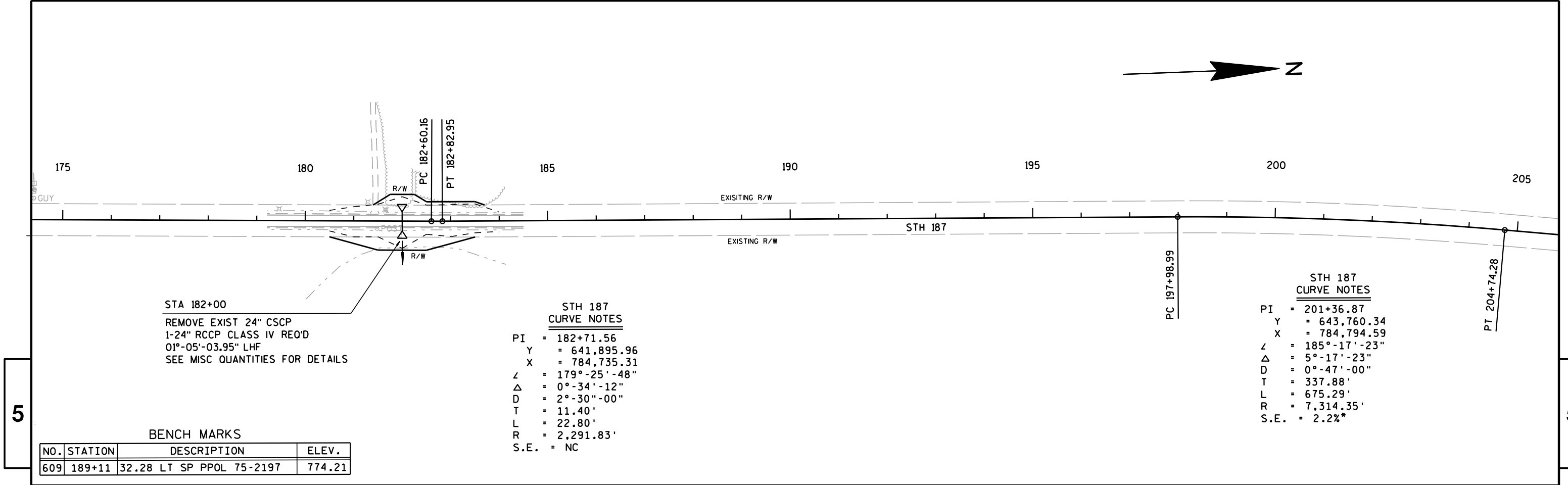
STH 187
 CURVE NOTES
 PI = 149+79.34
 Y = 638,599.41
 X = 784,627.46
 Z = 196°-56'-51"
 Δ = 16°-56'-51"
 D = 2°-00'-00"
 T = 426.80'
 L = 847.38'
 R = 2,864.79'
 S.E. = 3.8%*

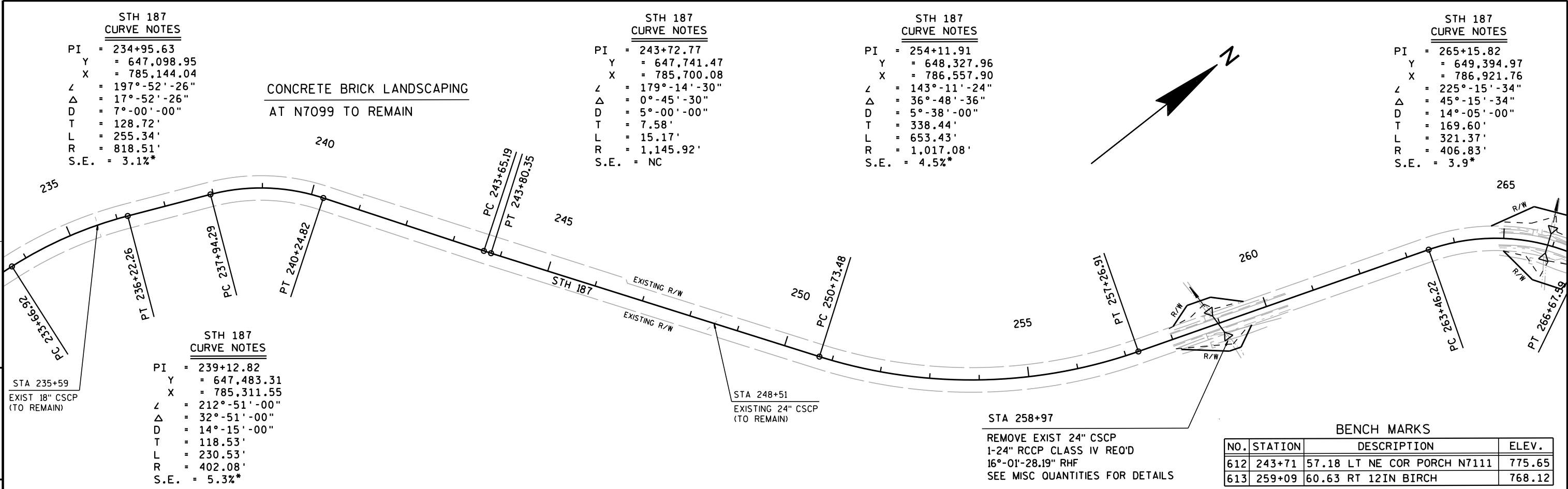
STH 187
 CURVE NOTES
 PI = 157+72.94
 Y = 639,399.08
 X = 784,643.06
 Z = 180°-41'-08"
 Δ = 0°-41'-08"
 D = 2°-30'-00"
 T = 13.71'
 L = 27.42'
 R = 2,291.83'
 S.E. = NC

STH 187
 CURVE NOTES
 PI = 169+41.30
 Y = 640,566.86
 X = 784,679.81
 Z = 180°-35'-18"
 Δ = 0°-35'-18"
 D = 2°-30'-00"
 T = 11.77'
 L = 23.53'
 R = 2,291.83'
 S.E. = NC

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
607	148+06	89.62 LT RR SP PPOL 94-20775	765.06
608	168+70	32.59 LT RR SP 40IN POPLAR CTH P/STH 187	769.18





STH 187
CURVE NOTES
PI = 234+95.63
Y = 647,098.95
X = 785,144.04
Z = 197°-52'-26"
Δ = 17°-52'-26"
D = 7°-00'-00"
T = 128.72'
L = 255.34'
R = 818.51'
S.E. = 3.1%*

CONCRETE BRICK LANDSCAPING
AT N7099 TO REMAIN

STH 187
CURVE NOTES
PI = 243+72.77
Y = 647,741.47
X = 785,700.08
Z = 179°-14'-30"
Δ = 0°-45'-30"
D = 5°-00'-00"
T = 7.58'
L = 15.17'
R = 1,145.92'
S.E. = NC

STH 187
CURVE NOTES
PI = 254+11.91
Y = 648,327.96
X = 786,557.90
Z = 143°-11'-24"
Δ = 36°-48'-36"
D = 5°-38'-00"
T = 338.44'
L = 653.43'
R = 1,017.08'
S.E. = 4.5%*

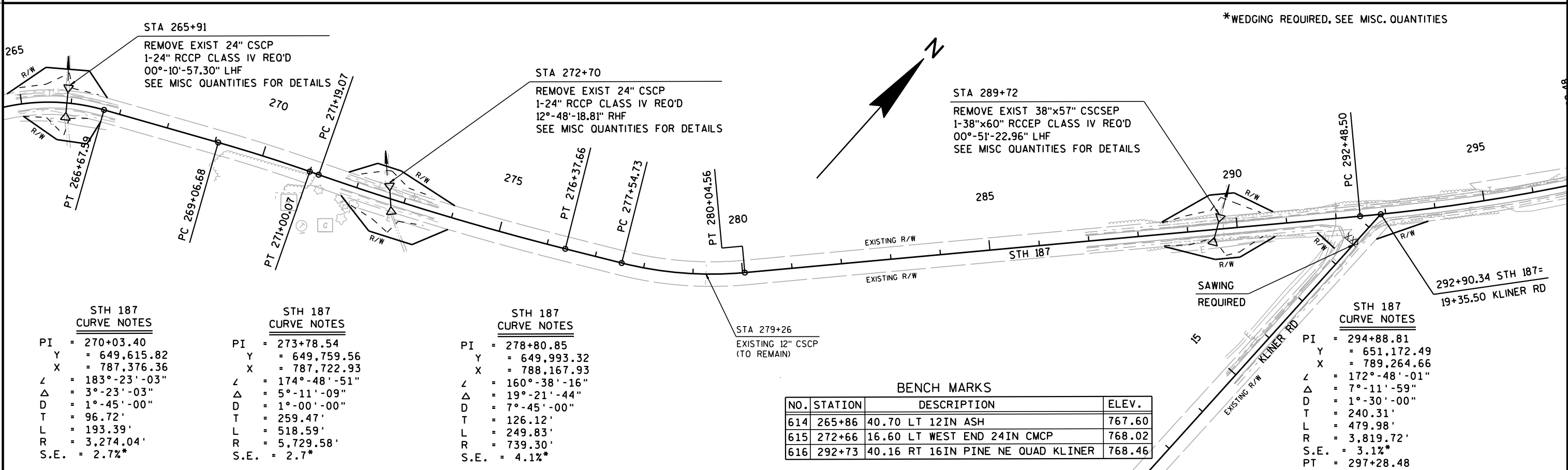
STH 187
CURVE NOTES
PI = 265+15.82
Y = 649,394.97
X = 786,921.76
Z = 225°-15'-34"
Δ = 45°-15'-34"
D = 14°-05'-00"
T = 169.60'
L = 321.37'
R = 406.83'
S.E. = 3.9%*

STH 187
CURVE NOTES
PI = 239+12.82
Y = 647,483.31
X = 785,311.55
Z = 212°-51'-00"
Δ = 32°-51'-00"
D = 14°-15'-00"
T = 118.53'
L = 230.53'
R = 402.08'
S.E. = 5.3%*

STA 248+51
EXISTING 24" CSCP
(TO REMAIN)

STA 258+97
REMOVE EXIST 24" CSCP
1-24" RCCP CLASS IV REQ'D
16°-01'-28.19" RHF
SEE MISC QUANTITIES FOR DETAILS

BENCH MARKS				
NO.	STATION	DESCRIPTION		ELEV.
612	243+71	57.18	LT NE COR PORCH N7111	775.65
613	259+09	60.63	RT 12IN BIRCH	768.12



STA 265+91
REMOVE EXIST 24" CSCP
1-24" RCCP CLASS IV REQ'D
00°-10'-57.30" LHF
SEE MISC QUANTITIES FOR DETAILS

STA 272+70
REMOVE EXIST 24" CSCP
1-24" RCCP CLASS IV REQ'D
12°-48'-18.81" RHF
SEE MISC QUANTITIES FOR DETAILS

STA 289+72
REMOVE EXIST 38"x57" CSCSEP
1-38"x60" RCCEP CLASS IV REQ'D
00°-51'-22.96" LHF
SEE MISC QUANTITIES FOR DETAILS

*WEDGING REQUIRED, SEE MISC. QUANTITIES

SAWING
REQUIRED

292+90.34 STH 187=
19+35.50 KLINER RD

STH 187
CURVE NOTES
PI = 270+03.40
Y = 649,615.82
X = 787,376.36
Z = 183°-23'-03"
Δ = 3°-23'-03"
D = 1°-45'-00"
T = 96.72'
L = 193.39'
R = 3,274.04'
S.E. = 2.7%*

STH 187
CURVE NOTES
PI = 273+78.54
Y = 649,759.56
X = 787,722.93
Z = 174°-48'-51"
Δ = 5°-11'-09"
D = 1°-00'-00"
T = 259.47'
L = 518.59'
R = 5,729.58'
S.E. = 2.7%*

STH 187
CURVE NOTES
PI = 278+80.85
Y = 649,993.32
X = 788,167.93
Z = 160°-38'-16"
Δ = 19°-21'-44"
D = 7°-45'-00"
T = 126.12'
L = 249.83'
R = 739.30'
S.E. = 4.1%*

BENCH MARKS			
NO.	STATION	DESCRIPTION	ELEV.
614	265+86	40.70 LT 12IN ASH	767.60
615	272+66	16.60 LT WEST END 24IN CMCP	768.02
616	292+73	40.16 RT 16IN PINE NE QUAD KLINER	768.46

STH 187
CURVE NOTES
PI = 294+88.81
Y = 651,172.49
X = 789,264.66
Z = 172°-48'-01"
Δ = 7°-11'-59"
D = 1°-30'-00"
T = 240.31'
L = 479.98'
R = 3,819.72'
S.E. = 3.1%*
PT = 297+28.48

5

5

STH 187
CURVE NOTES
PI = 300+07.09
Y = 651,593.76
X = 789,567.66
Z = 135°-00'-40"
Δ = 44°-59'-20"
D = 14°-30'-00"
T = 163.63'
L = 310.27'
R = 395.14'
S.E. = 4.0%*

STH 187
CURVE NOTES
PI = 305+51.04
Y = 652,147.39
X = 789,477.36
Z = 185°-56'-49"
Δ = 5°-56'-49"
D = 2°-00'-00"
T = 148.80'
L = 297.34'
R = 2,864.79'
S.E. = 3.3%*

STH 187
CURVE NOTES
PI = 323+41.85
Y = 653,935.47
X = 789,373.74
Z = 200°-10'-07"
Δ = 20°-10'-07"
D = 6°-00'-00"
T = 169.83'
L = 336.14'
R = 954.93'
S.E. = 4.1%

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
617	318+57	46.23 LT 6IN POPLAR	766.87

*WEDGING REQUIRED, SEE MISC. QUANTITIES

STA 333+21, STA 333+27
REMOVE EXIST 2-24" CSCP
2-24" RCCP CLASS IV REQ'D
01°-54'-21.69" LHF
SEE MISC QUANTITIES FOR DETAILS

STH 187
CURVE NOTES
PI = 334+70.83
Y = 655,018.13
X = 789,388.92
Z = 194°-24'-10"
Δ = 14°-24'-10"
D = 4°-50'-00"
T = 149.78'
L = 297.99'
R = 1,185.43'
S.E. = 3.6%*

STH 187
CURVE NOTES
PI = 344+20.48
Y = 655,954.26
X = 789,442.71
Z = 159°-31'-00"
Δ = 20°-29'-00"
D = 6°-30'-00"
T = 159.26'
L = 315.13'
R = 881.47'
S.E. = 3.8%*

STH 187
CURVE NOTES
PI = 330+02.82
Y = 654,571.42
X = 789,566.37
Z = 141°-28'-59"
Δ = 38°-31'-01"
D = 12°-00'-00"
T = 166.82'
L = 320.97'
R = 477.46'
S.E. = 4.0%*

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
618	332+69	32.25 LT 14IN POPLAR	770.10
619	341+15	23.36 LT 40IN OAK	775.57

STH 187
CURVE NOTES
PI = 339+67.65
Y = 655,512.55
X = 789,326.09
Z = 202°-00'-02"
Δ = 22°-00'-02"
D = 6°-50'-00"
T = 162.99'
L = 321.96'
R = 838.47'
S.E. = 3.4%*

STH 187
CURVE NOTES
PI = 351+69.57
Y = 656,703.04
X = 789,368.06
Z = 166°-52'-53"
Δ = 13°-07'-07"
D = 4°-50'-00"
T = 136.30'
L = 271.42'
R = 1,185.43'
S.E. = 3.3%*

PROJECT NO:6520-03-60

HWY: STH 187

COUNTY:OUTAGAMIE

PLAN

SHEET 107

E

FILE NAME : F:\d3_652003\050205_.prn.dgn

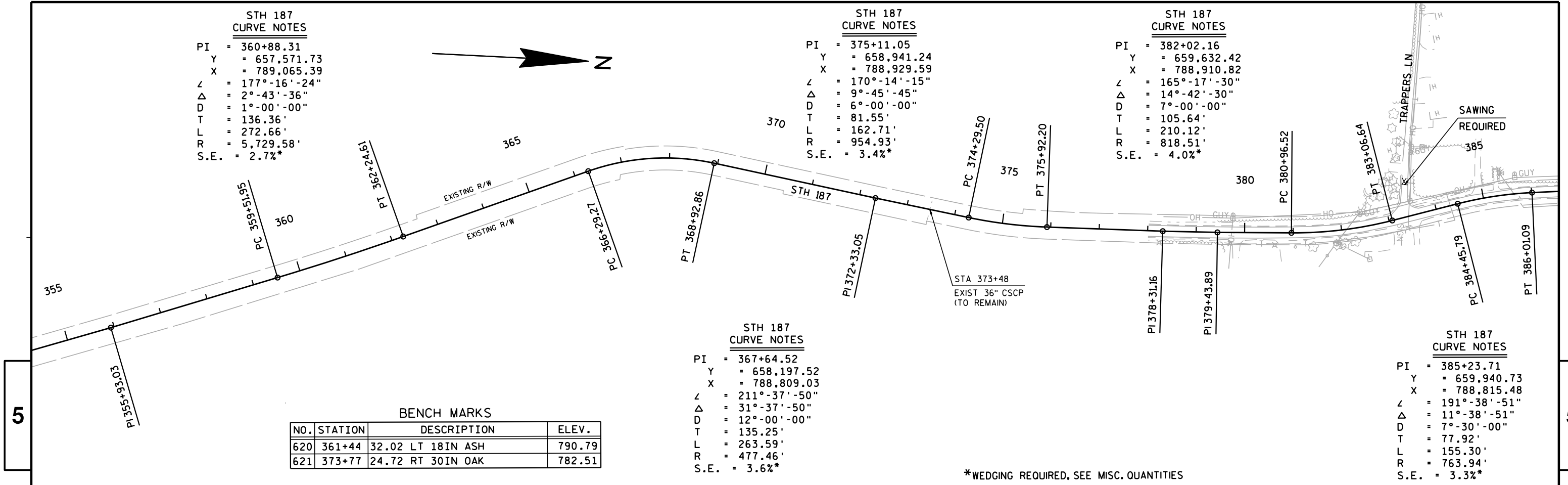
PLOT DATE : 19-FEB-2015 16:49

PLOT BY : dotmzc

PLOT NAME : 050205 prn

PLOT SCALE : 200:1

WISDOT/CADDs SHEET 44



STH 187
CURVE NOTES
PI = 360+88.31
Y = 657,571.73
X = 789,065.39
Z = 177°-16'-24"
Δ = 2°-43'-36"
D = 1°-00'-00"
T = 136.36'
L = 272.66'
R = 5,729.58'
S.E. = 2.7%*

STH 187
CURVE NOTES
PI = 375+11.05
Y = 658,941.24
X = 788,929.59
Z = 170°-14'-15"
Δ = 9°-45'-45"
D = 6°-00'-00"
T = 81.55'
L = 162.71'
R = 954.93'
S.E. = 3.4%*

STH 187
CURVE NOTES
PI = 382+02.16
Y = 659,632.42
X = 788,910.82
Z = 165°-17'-30"
Δ = 14°-42'-30"
D = 7°-00'-00"
T = 105.64'
L = 210.12'
R = 818.51'
S.E. = 4.0%*

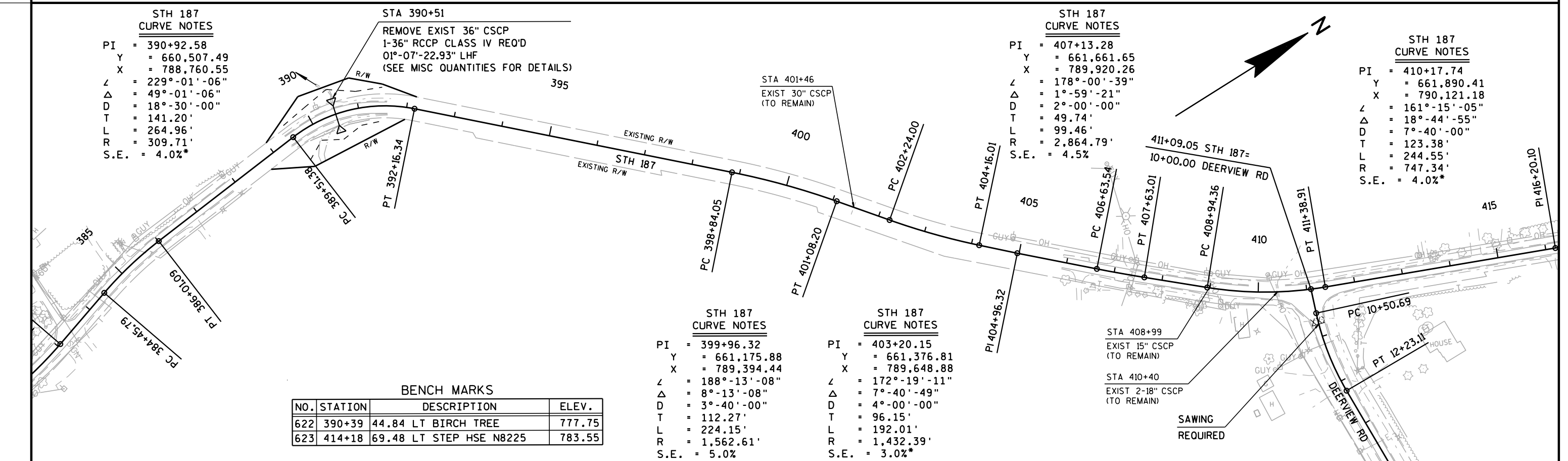
STH 187
CURVE NOTES
PI = 367+64.52
Y = 658,197.52
X = 788,809.03
Z = 211°-37'-50"
Δ = 31°-37'-50"
D = 12°-00'-00"
T = 135.25'
L = 263.59'
R = 477.46'
S.E. = 3.6%*

STH 187
CURVE NOTES
PI = 385+23.71
Y = 659,940.73
X = 788,815.48
Z = 191°-38'-51"
Δ = 11°-38'-51"
D = 7°-30'-00"
T = 77.92'
L = 155.30'
R = 763.94'
S.E. = 3.3%*

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
620	361+44	32.02 LT 18IN ASH	790.79
621	373+77	24.72 RT 30IN OAK	782.51

*WEDGING REQUIRED, SEE MISC. QUANTITIES



STH 187
CURVE NOTES
PI = 390+92.58
Y = 660,507.49
X = 788,760.55
Z = 229°-01'-06"
Δ = 49°-01'-06"
D = 18°-30'-00"
T = 141.20'
L = 264.96'
R = 309.71'
S.E. = 4.0%*

STH 187
CURVE NOTES
PI = 407+13.28
Y = 661,661.65
X = 789,920.26
Z = 178°-00'-39"
Δ = 1°-59'-21"
D = 2°-00'-00"
T = 49.74'
L = 99.46'
R = 2,864.79'
S.E. = 4.5%

STH 187
CURVE NOTES
PI = 410+17.74
Y = 661,890.41
X = 790,121.18
Z = 161°-15'-05"
Δ = 18°-44'-55"
D = 7°-40'-00"
T = 123.38'
L = 244.55'
R = 747.34'
S.E. = 4.0%*

STH 187
CURVE NOTES
PI = 399+96.32
Y = 661,175.88
X = 789,394.44
Z = 188°-13'-08"
Δ = 8°-13'-08"
D = 3°-40'-00"
T = 112.27'
L = 224.15'
R = 1,562.61'
S.E. = 5.0%

STH 187
CURVE NOTES
PI = 403+20.15
Y = 661,376.81
X = 789,648.88
Z = 172°-19'-11"
Δ = 7°-40'-49"
D = 4°-00'-00"
T = 96.15'
L = 192.01'
R = 1,432.39'
S.E. = 3.0%*

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
622	390+39	44.84 LT BIRCH TREE	777.75
623	414+18	69.48 LT STEP HSE N8225	783.55

STA 408+99
EXIST 15" CSCP
(TO REMAIN)

STA 410+40
EXIST 2-18" CSCP
(TO REMAIN)

SAWING
REQUIRED

PROJECT NO: 6520-03-60

HWY: STH 187

COUNTY: OUTAGAMIE

PLAN

SHEET 108

E

FILE NAME : F:\d3_652003\050206_.prn.dgn

PLOT DATE : 19-FEB-2015 16:49

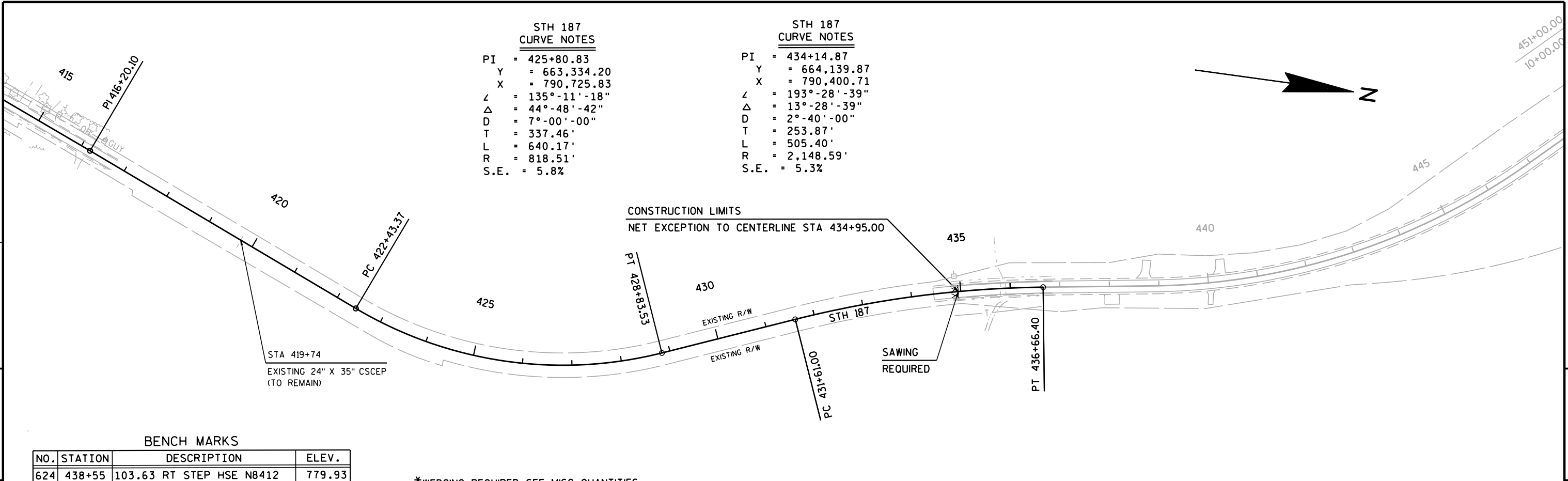
PLOT BY : dotmzc

PLOT NAME : 050206 prn

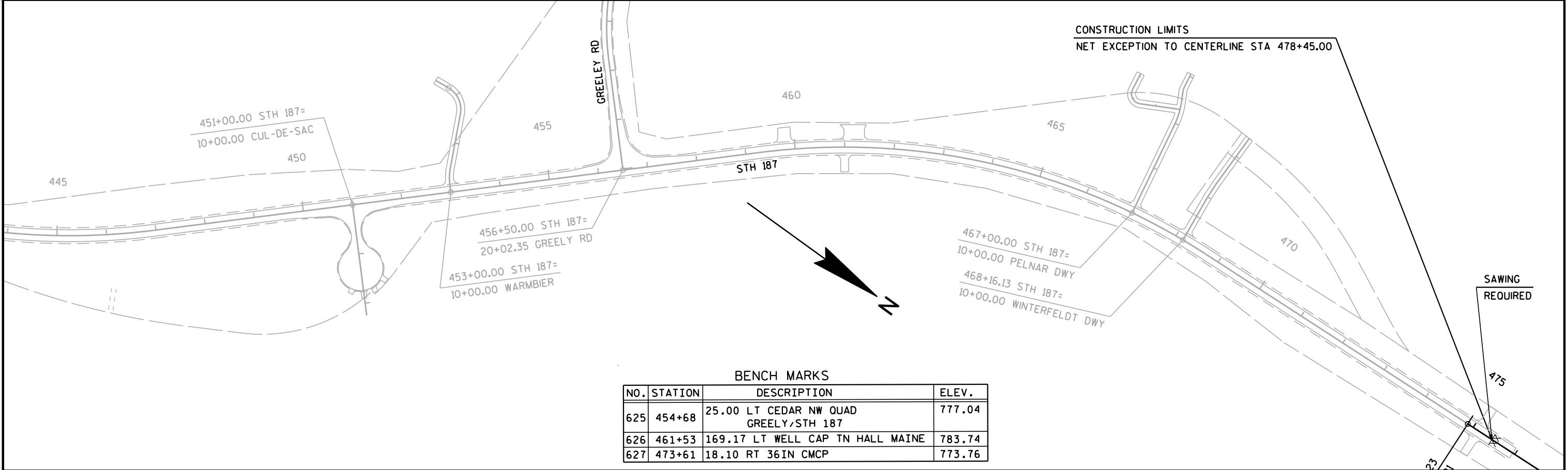
PLOT SCALE : 200:1

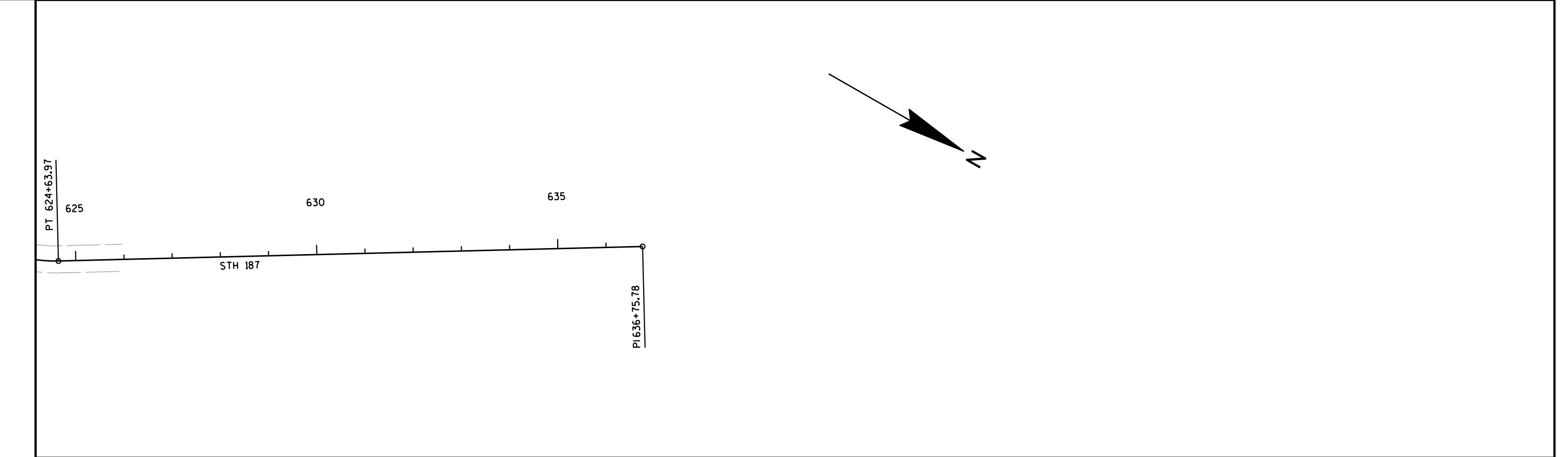
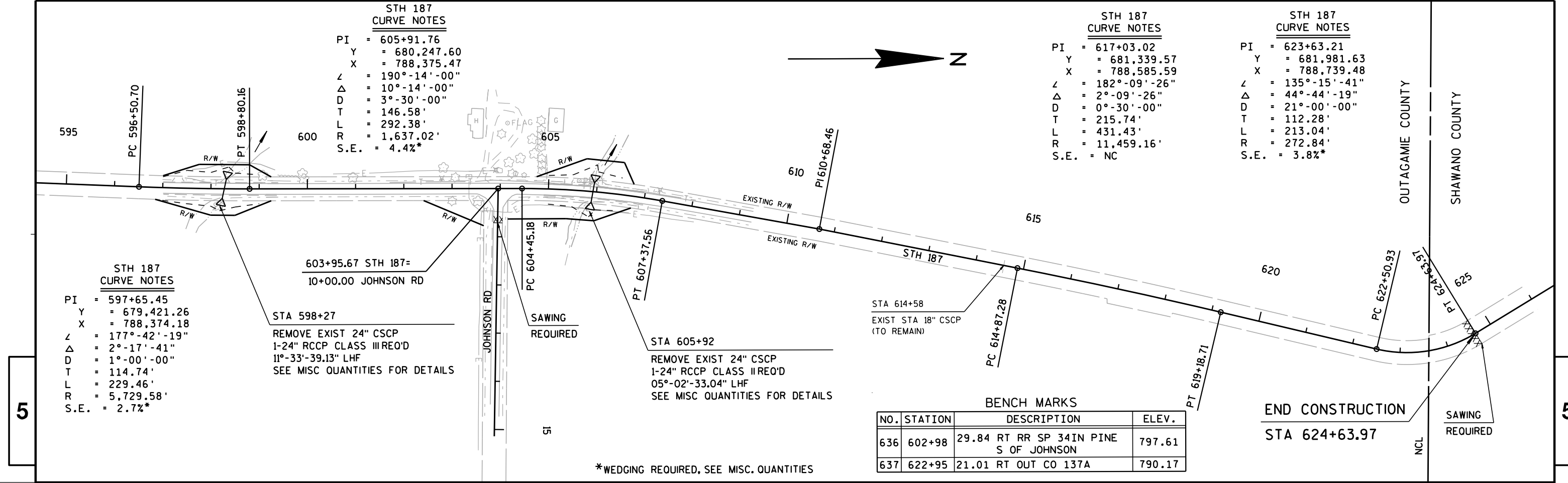
WISDOT/CADDs SHEET 44

5



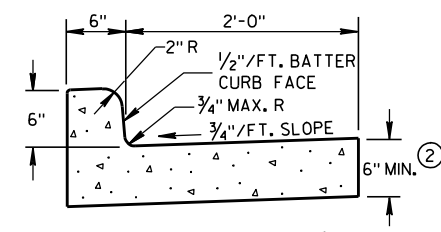
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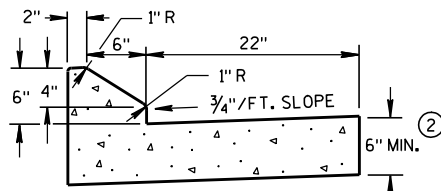


Standard Detail Drawing List

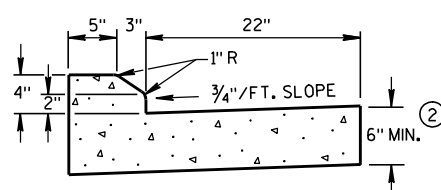
08D01-17	CONCRETE CURB, CONCRETE CURB AND GUTTER AND TIES
08D04-05	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F02-01	APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
08F10-01	CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH
09A01-13A	AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND D AND TEE INTERSECTION BYPASS LANE
14B15-08A	STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION & ELEMENTS
14B15-08B	STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION & ELEMENTS
14B15-08C	STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS
14B20-11A	STEEL THRIE BEAM STRUCTURE APPROACH
14B24-08A	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
14B24-08B	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
14B24-08C	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
14B27-01A	STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL
14B27-01B	STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL
14B27-01C	STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL
14B29-01	SAFETY EDGE
14B42-03A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-03B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-03C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-02A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-02B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-02C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B45-03A	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-03B	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-03C	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B51-01A	ANCHOR POST ASSEMBLY TOP-MOUNTED
14B51-01B	ANCHOR POST ASSEMBLY TOP-MOUNTED
14B51-01C	ANCHOR POST ASSEMBLY TOP-MOUNTED
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C02-05A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-05B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-05C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C03-02	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C08-16A	PAVEMENT MARKING (MAINLINE)
15C08-16B	PAVEMENT MARKING (INTERSECTIONS)
15C08-16F	PAVEMENT MARKING (ISLANDS)



TYPES A & D ①



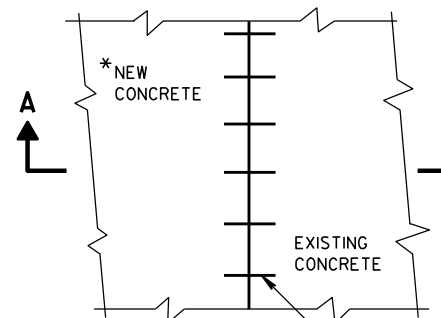
6" SLOPED CURB TYPES G & J ①



4" SLOPED CURB TYPES G & J ①

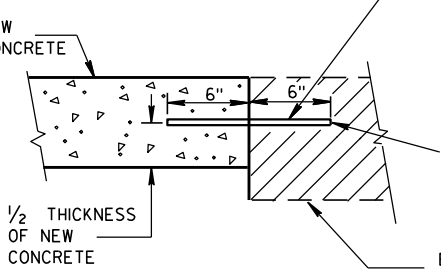
CONCRETE CURB & GUTTER 30"

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

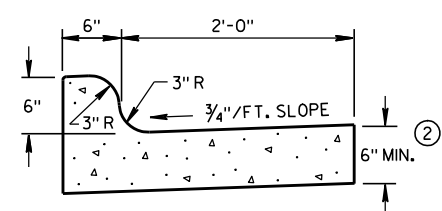


PLAN VIEW

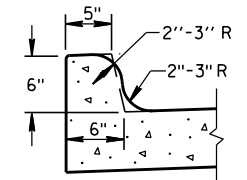
NO. 6 TIE BARS SPACED 2'-6" C-C, INSTALLED PERPENDICULAR TO THE LONGITUDINAL JOINT.



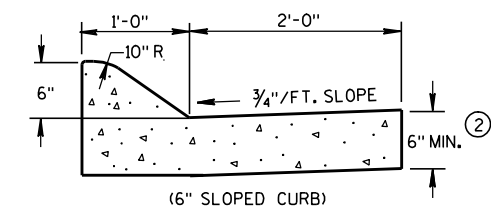
SECTION A-A
TIE BARS DRILLED
INTO EXISTING PAVEMENT



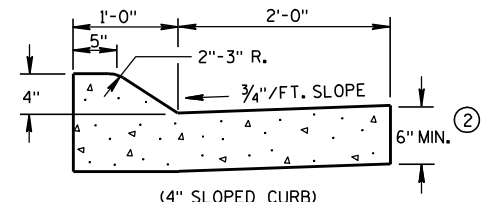
TYPES K & L ①



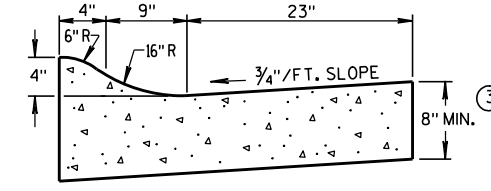
OPTIONAL CURB SHAPE
FOR TYPES K & L ①



(6" SLOPED CURB)

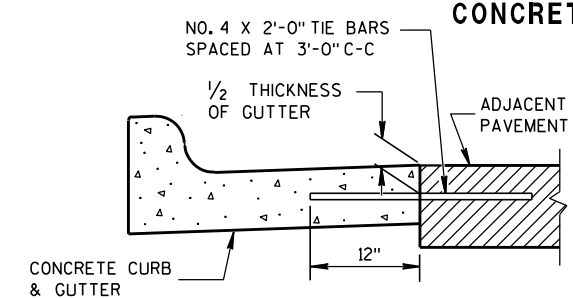


(4" SLOPED CURB)

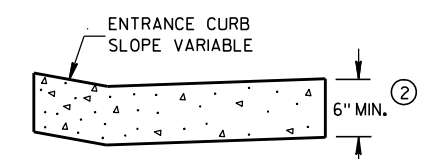


4" SLOPED CURB TYPES R & T ① ④

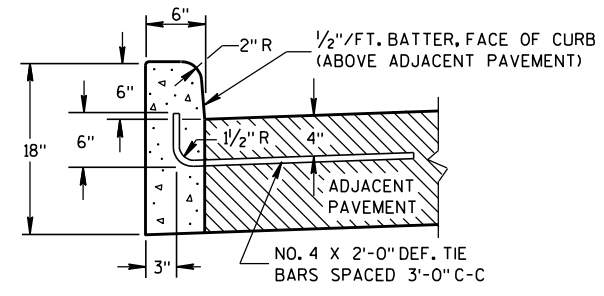
CONCRETE CURB & GUTTER 36"



TYPICAL TIE BAR LOCATION ①

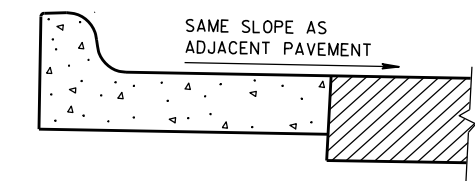


DRIVEWAY ENTRANCE CURB
(WHEN DIRECTED BY THE ENGINEER)

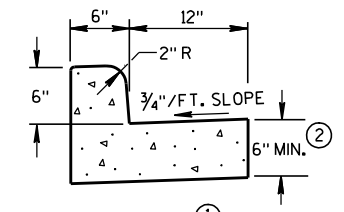


TYPES A & D ①

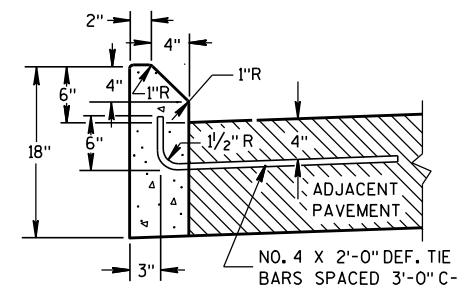
CONCRETE CURB



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



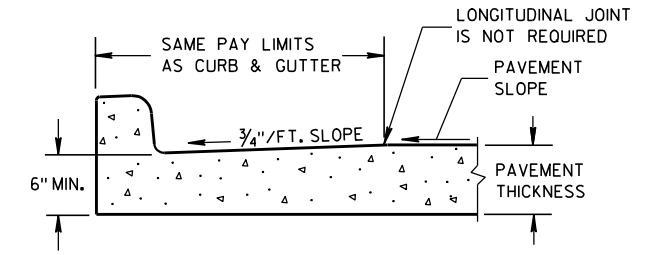
TYPES A & D
CONCRETE CURB & GUTTER 18"



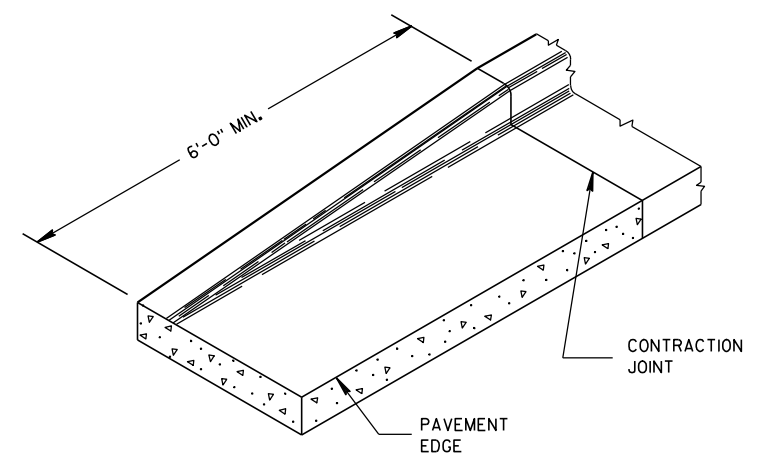
TYPES G & J ①

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



END SECTION CURB & GUTTER

CONCRETE CURB, CONCRETE CURB & GUTTER AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
9/4/08 /S/ Jerry H. 7-
DATE ROADWAY STANDARDS 114 ENT
FHWA ENGINEER

6



S.D.D. 8 D 4-5



6

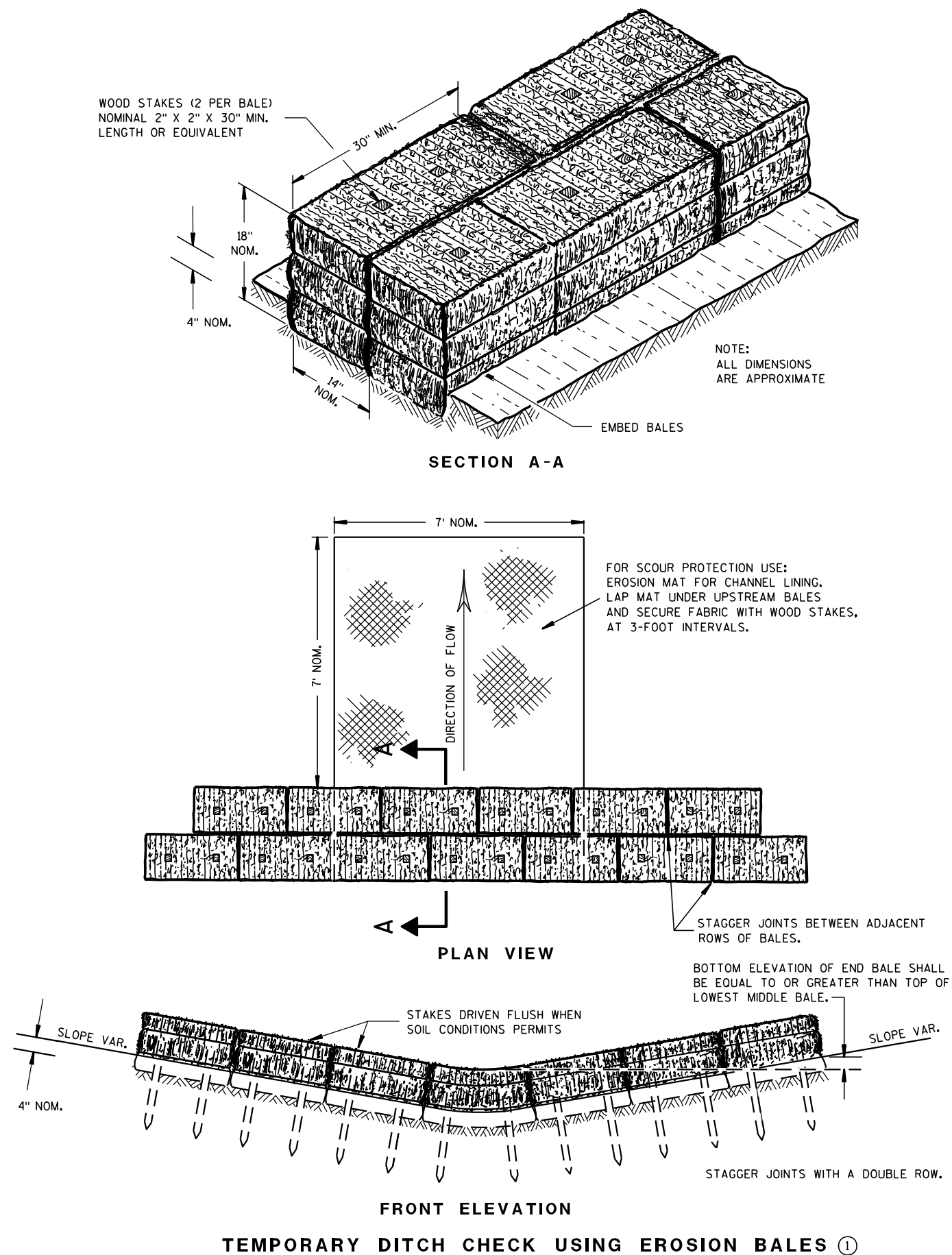
WELDED STEEL WIRE FABRIC SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

- ### ③ CONCRETE SURFACE DRAIN



S.D.D. 8 D 4-5

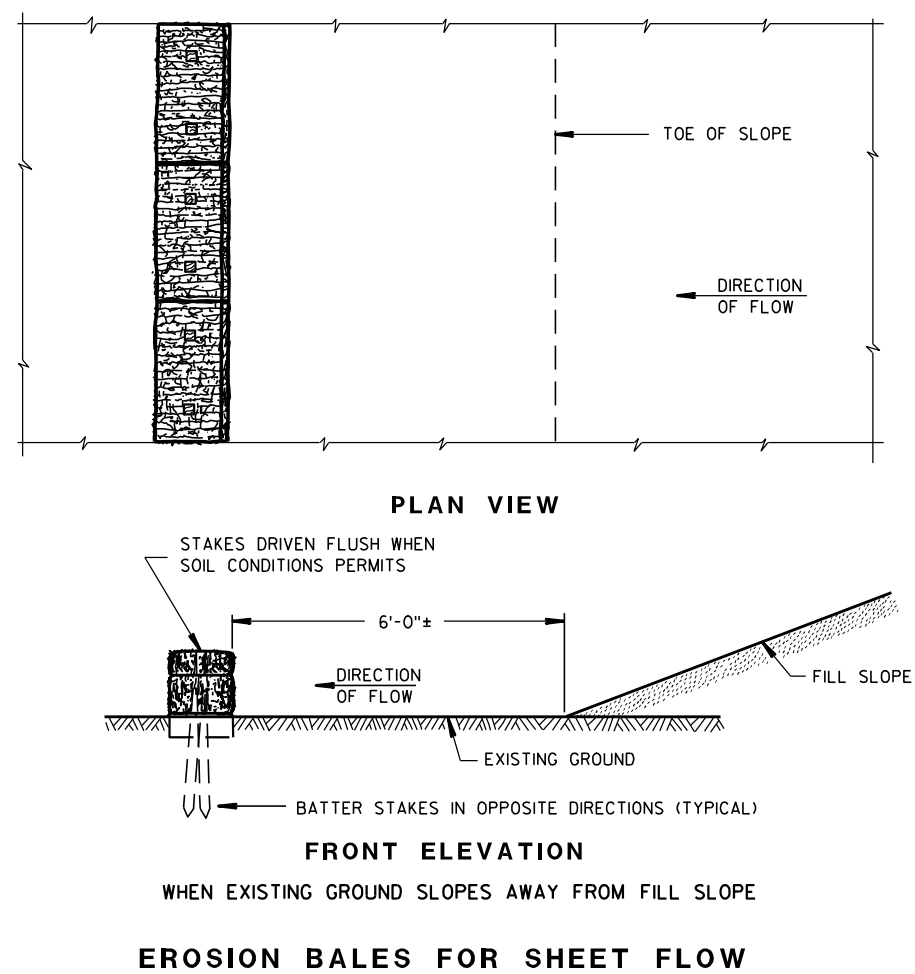
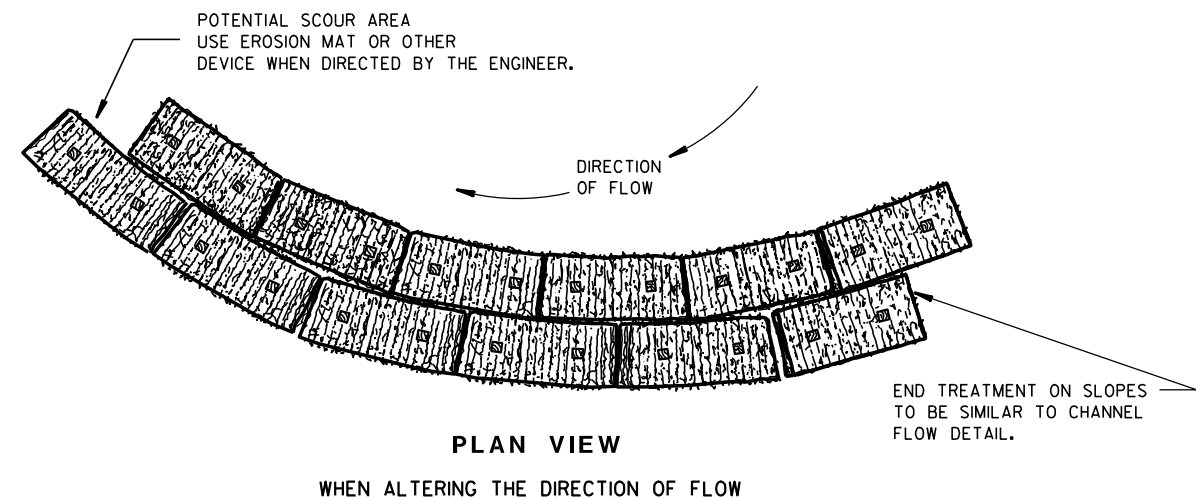
APPROVED
9-4-08 /S/ Jerry H. Zogg
DATE ROADWAY STANDARDS 115
ENGINEER



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.

TYPICAL INSTALLATIONS OF
EROSION BALES / TEMPORARY
DITCH CHECKS

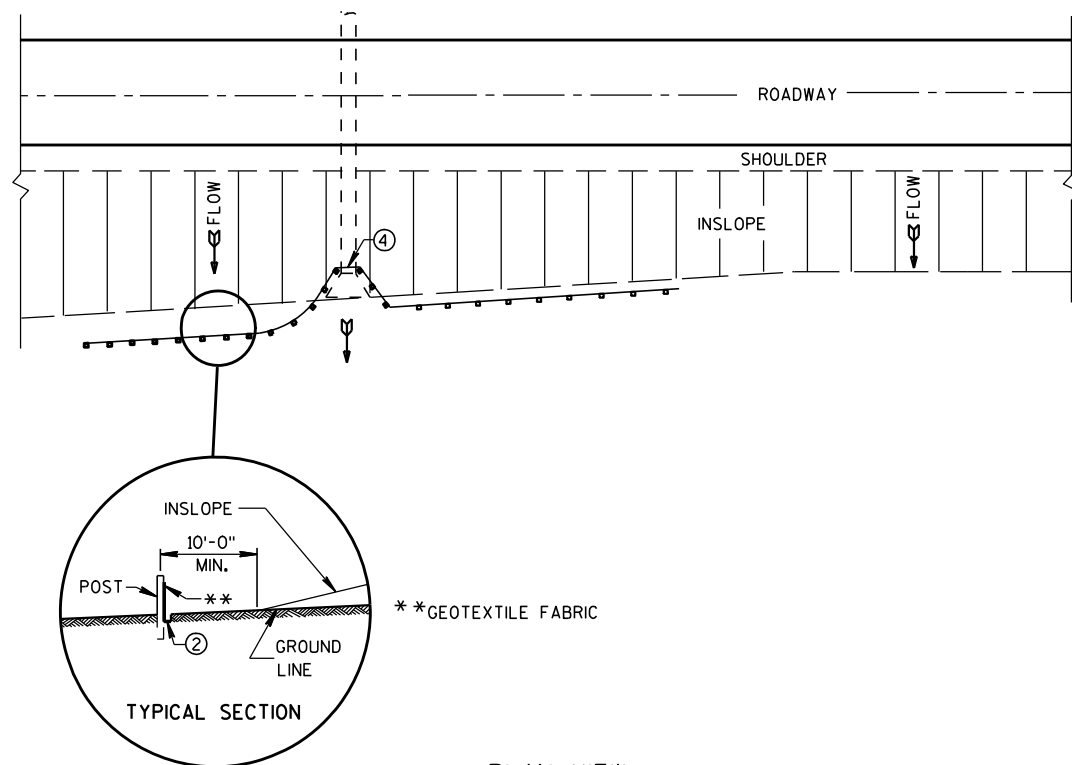
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

6/04/02
DATE

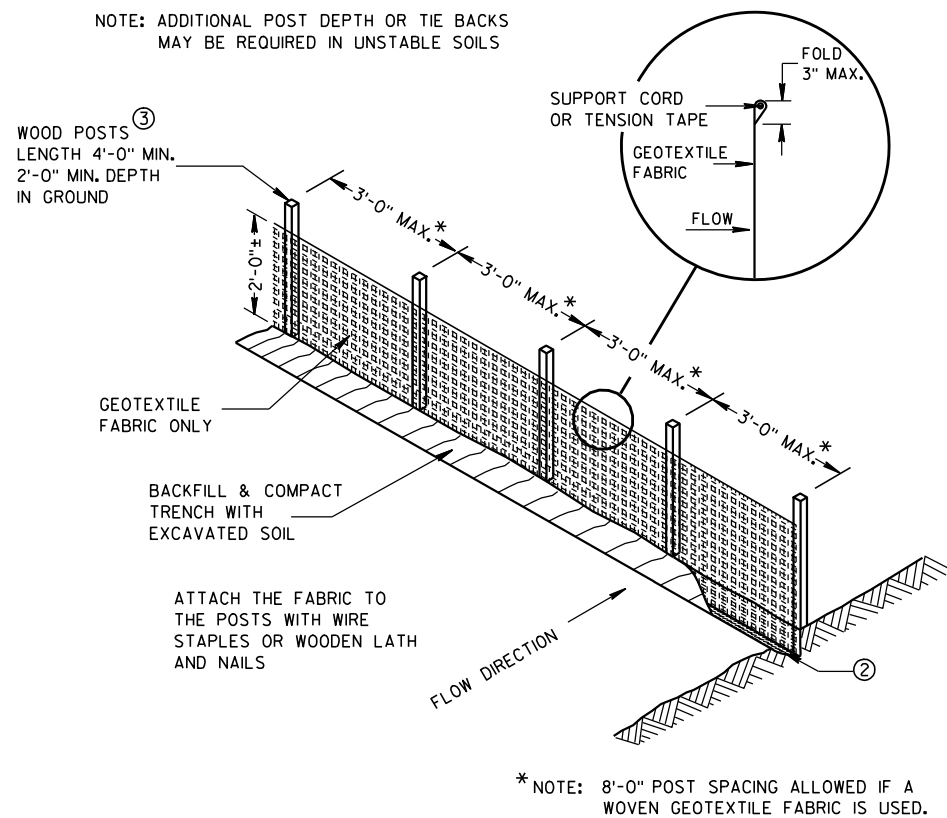
/S/ Beth Conn
CHIEF ROADWAY DEVELOPER 116 ENGINEER

FHWA

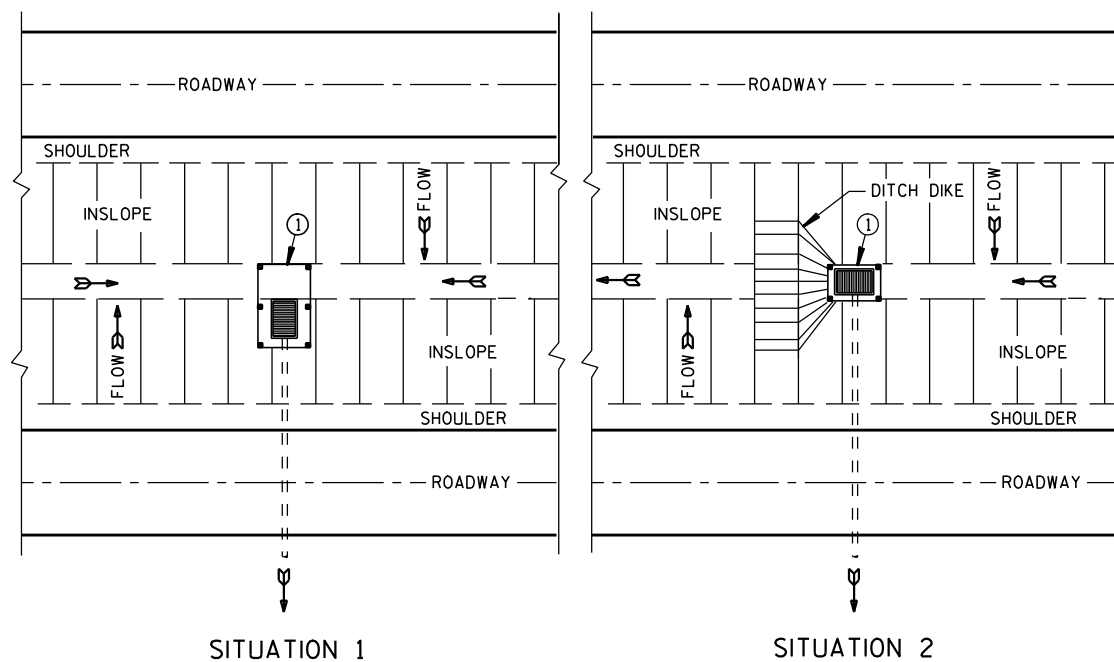


PLAN VIEW
TYPICAL APPLICATION OF SILT FENCE

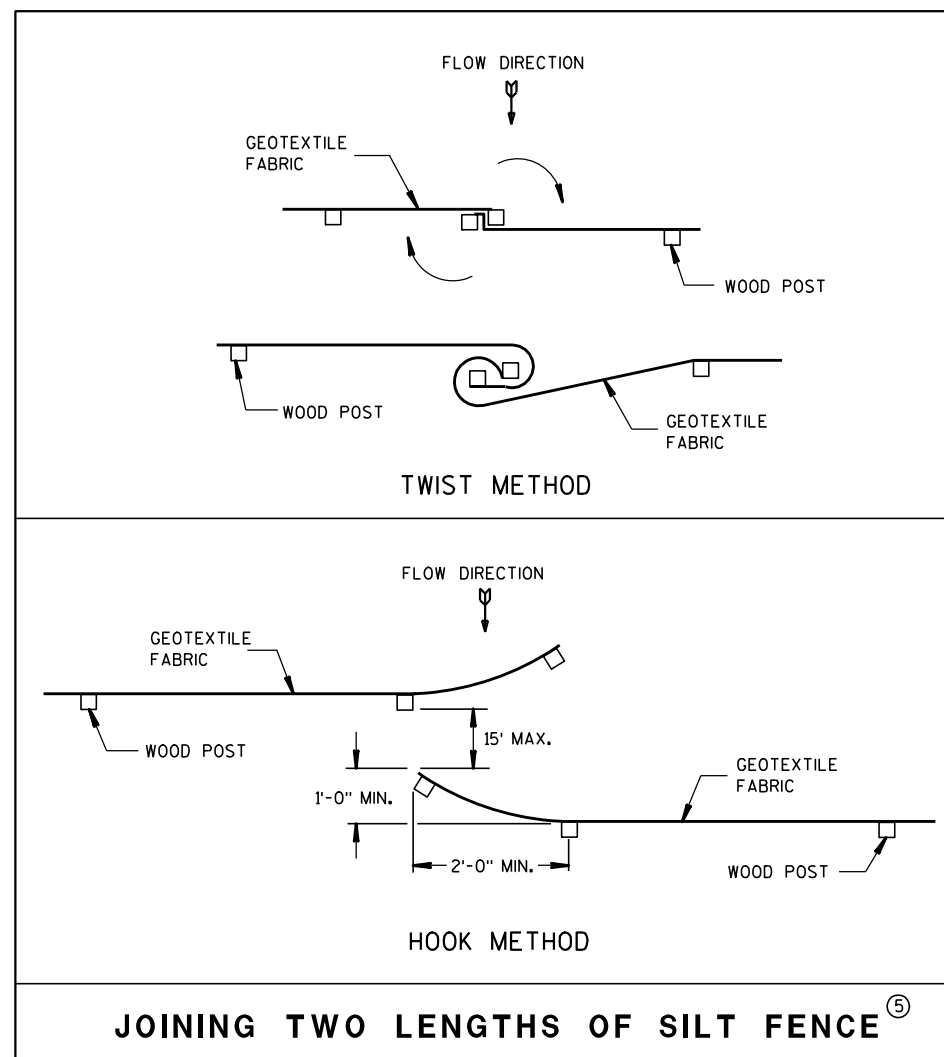
NOTE: ADDITIONAL POST DEPTH OR TIE BACKS
MAY BE REQUIRED IN UNSTABLE SOILS



SILT FENCE



PLAN VIEW
SILT FENCE AT MEDIAN SURFACE DRAINS

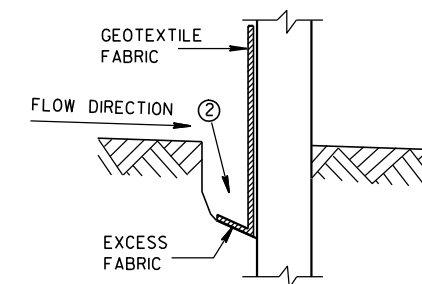


JOINING TWO LENGTHS OF SILT FENCE^⑤

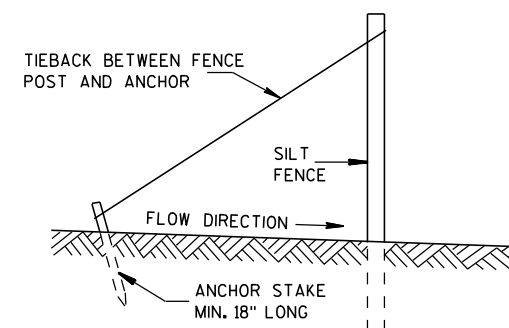
GENERAL NOTES

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 1 1/8" X 1 1/8" 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 TIE BACK
(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

4-29-05
DATE

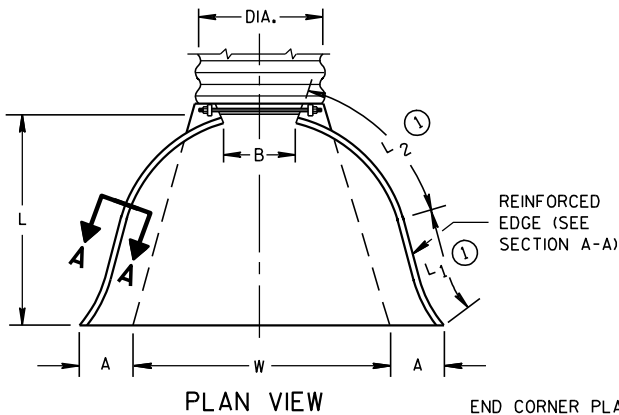
FHWA

/S/ Beth Conn
CHIEF ROADWAY DEVELOPER

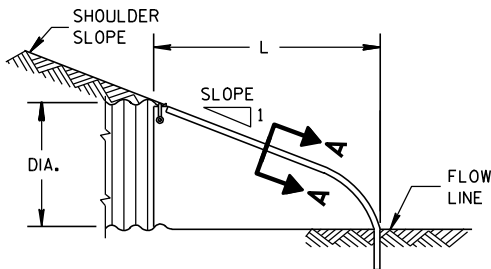
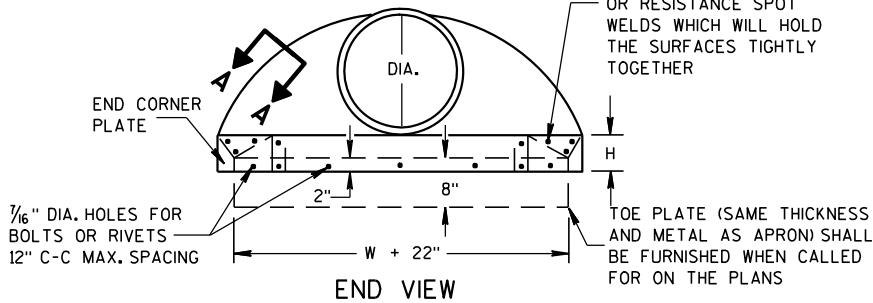
ENGINEER

METAL APRON ENDWALLS												
PIPE DIA. (IN.)	MIN. THICK. (Inches)		DIMENSIONS (Inches)							APPROX. SLOPE		BODY
	STEEL	ALUM.	A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")			
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1		1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1		1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	36	2 1/2 to 1		1 Pc.
21	.064	.060	9	12	6	36	18	29 5/8	42	2 1/2 to 1		1 Pc.
24	.064	.075	10	13	6	41	18	37 1/4	48	2 1/2 to 1		1 Pc.
30	.079	.075	12	16	8	51	18	52 1/4	60	2 1/2 to 1		1 Pc.
36	.079	.105	14	19	9	60	24	59 3/4	72	2 1/2 to 1		2 Pc.
42	.109	.105	16	22	11	69	24	75 5/8	84	2 1/2 to 1		2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 1/4 to 1		3 Pc.
54	.109	.105	18	30	12	84	30	85 1/2	102	2 1/4 to 1		3 Pc.
60	.109x	.105x	18	33	12	87	—	—	114	2 to 1		3 Pc.
66	.109x	.105x	18	36	12	87	—	—	120	2 to 1		3 Pc.
72	.109x	.105x	18	39	12	87	—	—	126	2 to 1		3 Pc.
78	.109x	.105x	18	42	12	87	—	—	132	1 1/2 to 1		3 Pc.
84	.109x	.105x	18	45	12	87	—	—	138	1 1/2 to 1		3 Pc.
90	.109x	.105x	18	37	12	87	—	—	144	1 1/2 to 1		3 Pc.
96	.109x	.105x	18	35	12	87	—	—	150	1 1/2 to 1		3 Pc.

* EXCEPT CENTER PANEL
SEE GENERAL NOTES



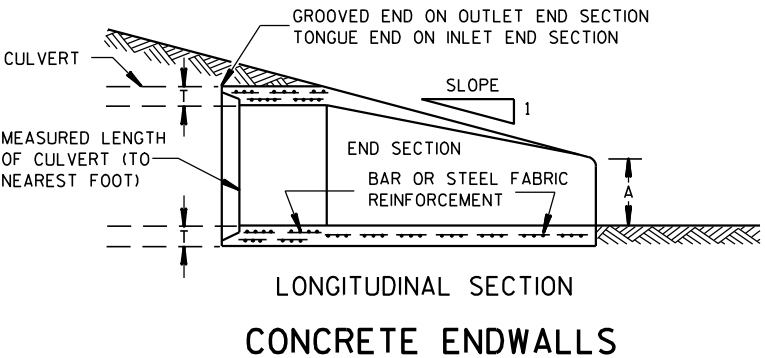
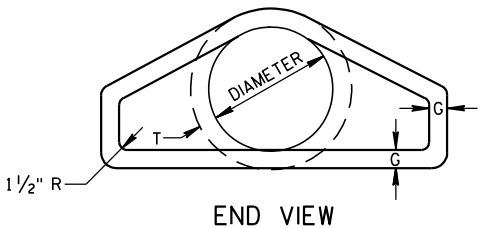
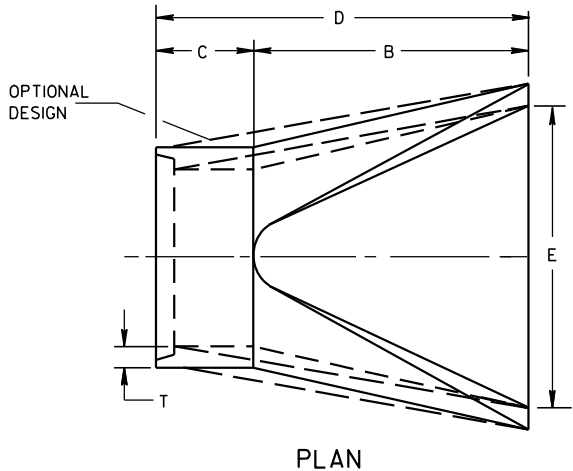
REINFORCED
EDGE (SEE
SECTION A-A)



SIDE ELEVATION
METAL ENDWALLS

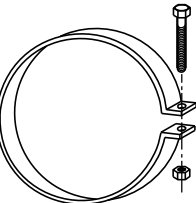
REINFORCED CONCRETE APRON ENDWALLS									
PIPE DIA. (IN.)	DIMENSIONS (Inches)							APPROX. SLOPE	
	T	A	B	C	D	E	G		
12	2	4	24	48 7/8	72 7/8	24	2	3 to 1	
15	2 1/4	6	27	46	73	30	2 1/4	3 to 1	
18	2 1/2	9	27	46	73	36	2 1/2	3 to 1	
21	2 3/4	9	36	37 1/2	73 1/2	42	2 3/4	3 to 1	
24	3	9 1/2	43 1/2	30	73 1/2	48	3	3 to 1	
27	3 1/4	10 1/2	49 1/2	24	73 1/2	54	3 1/4	3 to 1	
30	3 1/2	12	54	19 3/4	73 1/2	60	3 1/2	3 to 1	
36	4	15	63	34 3/4	97 3/4	72	4	3 to 1	
42	4 1/2	21	63	35	98	78	4 1/2	3 to 1	
48	5	24	72	26	98	84	5	3 to 1	
54	5 1/2	27	65	33 1/4-35	98 1/4-100	90	5 1/2	2 1/2 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

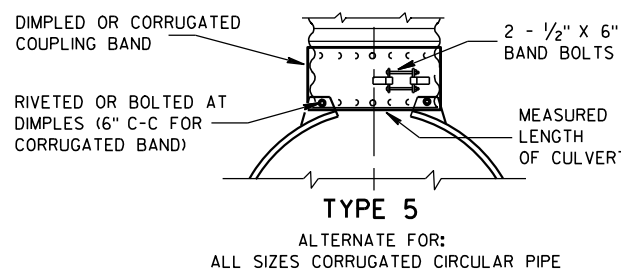
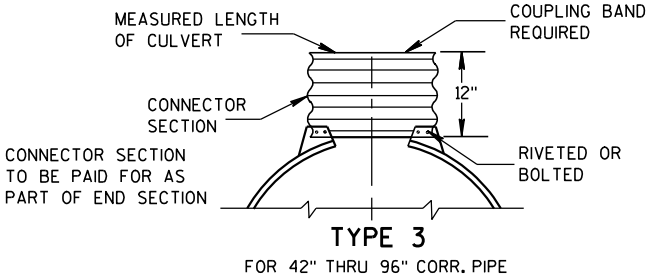
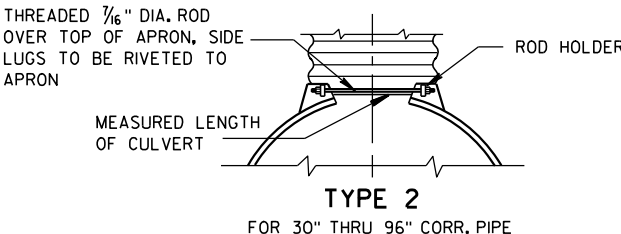
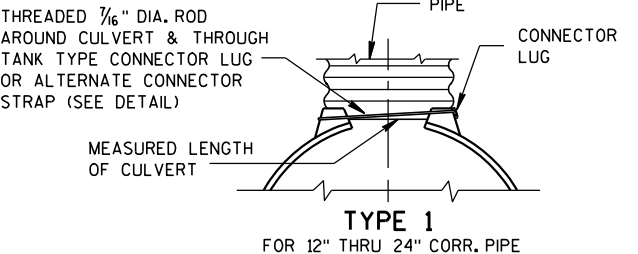


LONGITUDINAL SECTION
CONCRETE ENDWALLS

1" WIDE, 12 GA. (0.109"
THICK) GALVANIZED STRAP
WITH STANDARD 6" X 1/2"
BAND BOLT AND NUT



ALTERNATE FOR TYPE 1 CONNECTION
END SECTION CONNECTOR STRAP



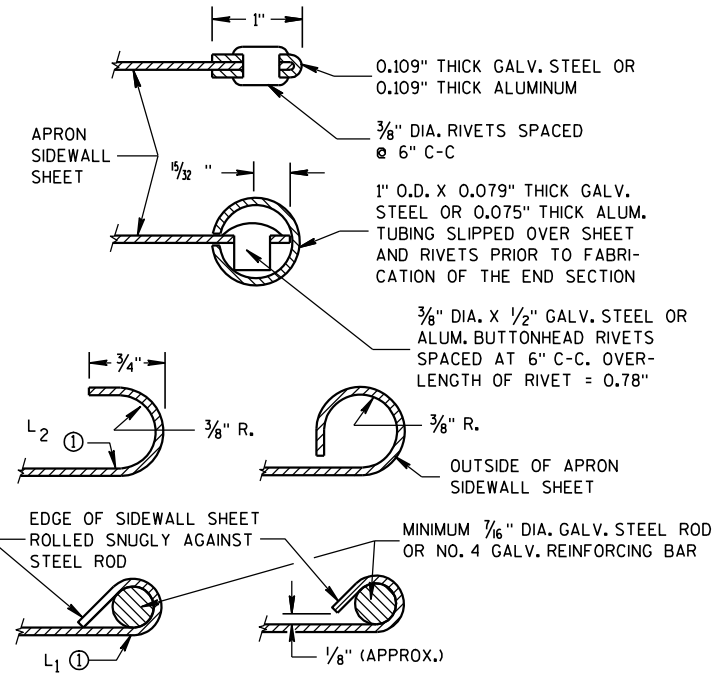
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL,
AND CORRUGATED BAND FITS INSIDE ENDWALL.
DIMPLED BAND MAY BE USED WITH HELICALLY
CORRUGATED PIPE.

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.

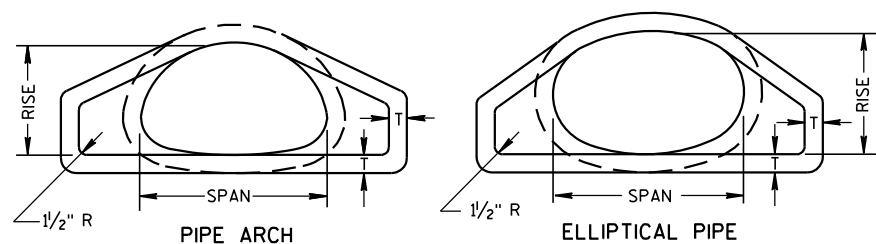
ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND
LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL
THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND
LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH
OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT 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.

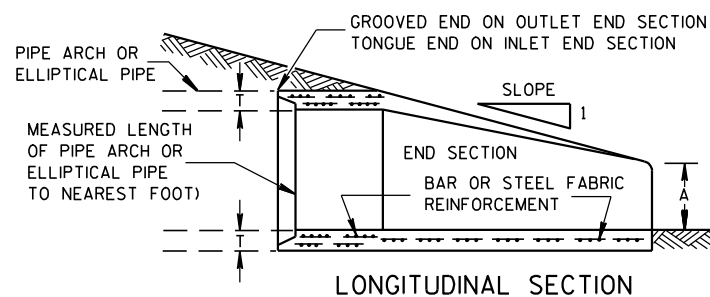
WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT
TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT
TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

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	/S/ Rory L. Rhinehart	NEER
	DATE	CHIEF ROADWAY DEVELOP	
FHWA			

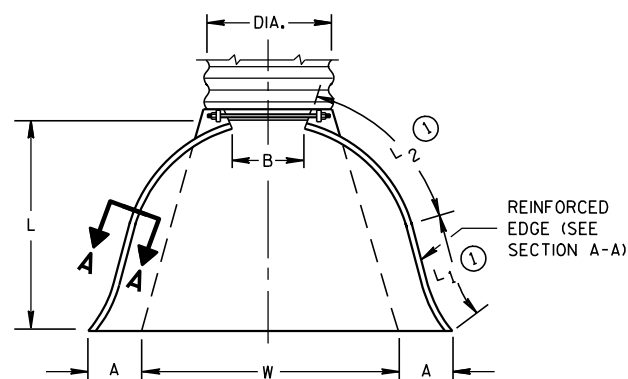


END VIEW



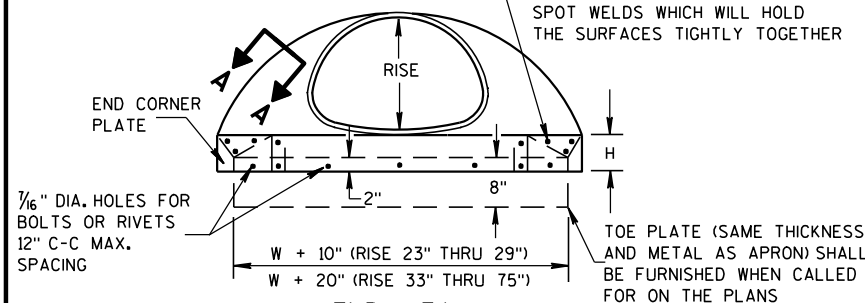
LONGITUDINAL SECTION

CONCRETE ENDWALLS

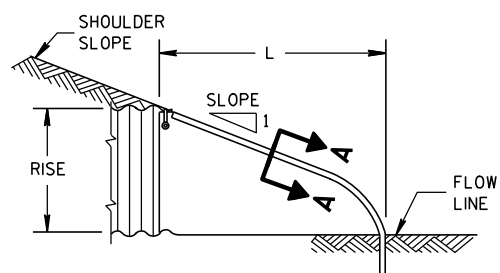
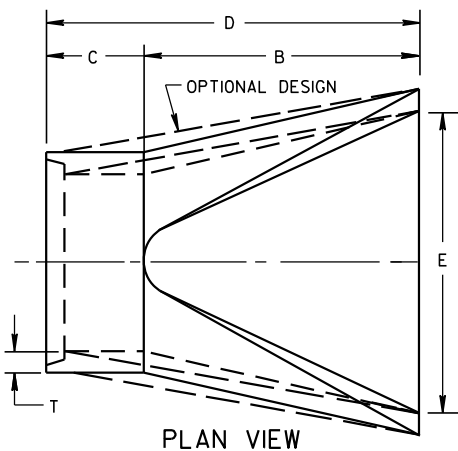


PLAN VIEW

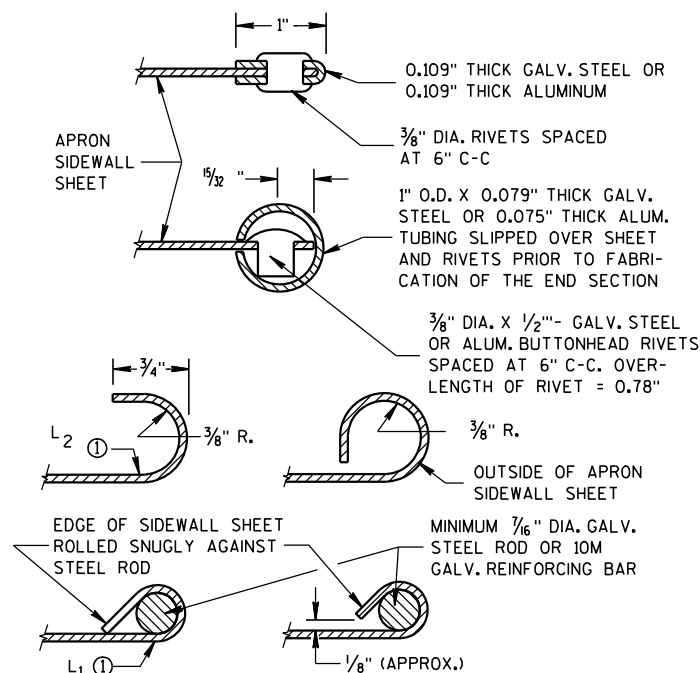
END CORNER PLATES MAY BE FASTENED TO APRON PROPER BY BOLTS, RIVETS, OR RESISTANCE SPOT WELDS WHICH WILL HOLD THE SURFACES TIGHTLY TOGETHER



END VIEW

SIDE ELEVATION
METAL ENDWALLS

PLAN VIEW



SECTION A-A

2- 2 2/3" X 1/2" CORRUGATIONS													
EQUIV. DIA. (Inches)	(Inches)		MIN. THICK. (Inches)		DIMENSIONS (Inches)							APPROX. SLOPE	BODY
	SPAN	RISE	STEEL	ALUM.	A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")		
15	17	13	.064	.060	7	9	6	19	14	16	30	2 1/2 to 1	1 Pc.
18	21	15	.064	.060	7	10	6	23	14	19 3/8	36	2 1/2 to 1	1 Pc.
21	24	18	.064	.060	8	12	6	28	18	21 3/4	42	2 1/2 to 1	1 Pc.
24	28	20	.064	.060	9	14	6	32	18	27 1/2	48	2 1/2 to 1	1 Pc.
30	35	24	.079	.075	10	16	6	39	18	37 5/8	60	2 1/2 to 1	1 Pc.
36	42	29	.079	.075	12	18	8	46	24	45 3/8	75	2 1/2 to 1	1 Pc.
42	49	33	.109	.105	13	21	9	53	24	54 3/4	85	2 1/2 to 1	2 Pc.
48	57	38	.109	.105	18	26	12	63	24	68	90	2 1/2 to 1	3 Pc.
54	64	43	.109	.105	18	30	12	70	24	72 3/4	102	2 1/4 to 1	3 Pc.
60	71	47	.109*	.105*	18	33	12	77	30	82 1/4	114	2 1/4 to 1	3 Pc.
66	77	52	.109*	.105*	18	36	12	77	—	—	126	2 to 1	3 Pc.
72	83	57	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.

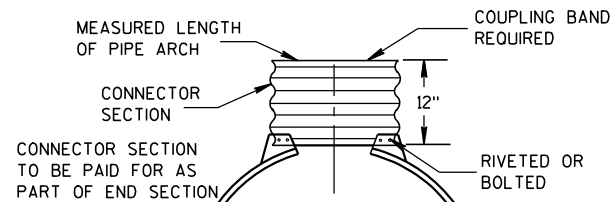
3" X 1" CORRUGATIONS													
EQUIV. DIA. (Inches)	(Inches)		MIN. THICK. (Inches)		DIMENSIONS (Inches)							APPROX. SLOPE	BODY
	SPAN	RISE	STEEL	ALUM.	A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")		
48	53	41	.109	.105	18	26	12	63	24	72 3/4	90	2 1/2 to 1	2 Pc.
54	60	46	.109	.105	18	30	12	70	30	82 1/4	102	2 to 1	2 Pc.
60	66	51	.109*	.105*	18	33	12	77	—	—	114	1 1/2 to 1	3 Pc.
66	73	55	.109*	.105*	18	36	12	77	—	—	126	1 1/2 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	1 1/2 to 1	3 Pc.
84	95	67	.109*	.105*	22	34	12	77	—	—	162	1 1/2 to 1	3 Pc.
90	103	71	.109*	.105*	22	38	12	77	—	—	174	1 1/2 to 1	3 Pc.
96	112	75	.109*	.105*	24	40	12	77	—	—	174	1 1/2 to 1	3 Pc.

NOTE: ALL SPLICES TO BE LAP RIVETED OR BOLTED.

* EXCEPT CENTER PANEL
SEE GENERAL NOTES

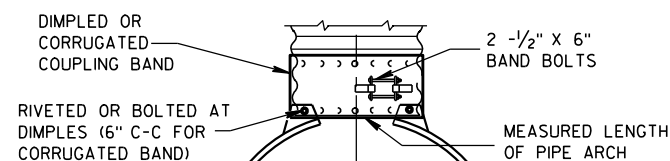
TYPE 2

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

REINFORCED CONCRETE PIPE ARCH

EQUIV. DIA. (Inches)	DIMENSIONS (Inches)								APPROX. SLOPE
	** SPAN	** RISE	T	A	B	C	D	E	
24	29	18	3	8 1/2	39	33	72	48	3 to 1
30	36	22	3 1/2	9 1/2	50	46	96	60	3 to 1
36	44	27	4	11 1/8	60	36	96	72	3 to 1
42	51	31	4 1/2	15 1/16	60	36	96	78	3 to 1
48	58	36	5	21	60	36	96	84	3 to 1
54	65	40	5 1/2	25 1/2	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	28 1/2	83	19	102	144	2 to 1

REINFORCED CONCRETE ELLIPTICAL PIPE

EQUIV. DIA. (Inches)	DIMENSIONS (Inches)								APPROX. SLOPE
	** SPAN	** RISE	T	A	B	C	D	E	
24	30	19	3 1/4	8 1/2	39	33	72	48	3 to 1
30	38	24	3 3/4	9 1/2	54	18	72	60	3 to 1
36	45	29	4 1/2	11 1/8	60	24	84	72	2 1/2 to 1
42	53	34	5	15 1/4	60	36	96	78	2 1/2 to 1
48	60	38	5 1/2	21	60	36	96	84	2 1/2 to 1
54	68	43	6	25 1/2	60	36	96	90	2 1/2 to 1
60	76	48	6 1/2	30	60	36	96	96	2 1/2 to 1

**NOMINAL SIZE

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 PIPESTATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

11/30/94

DATE

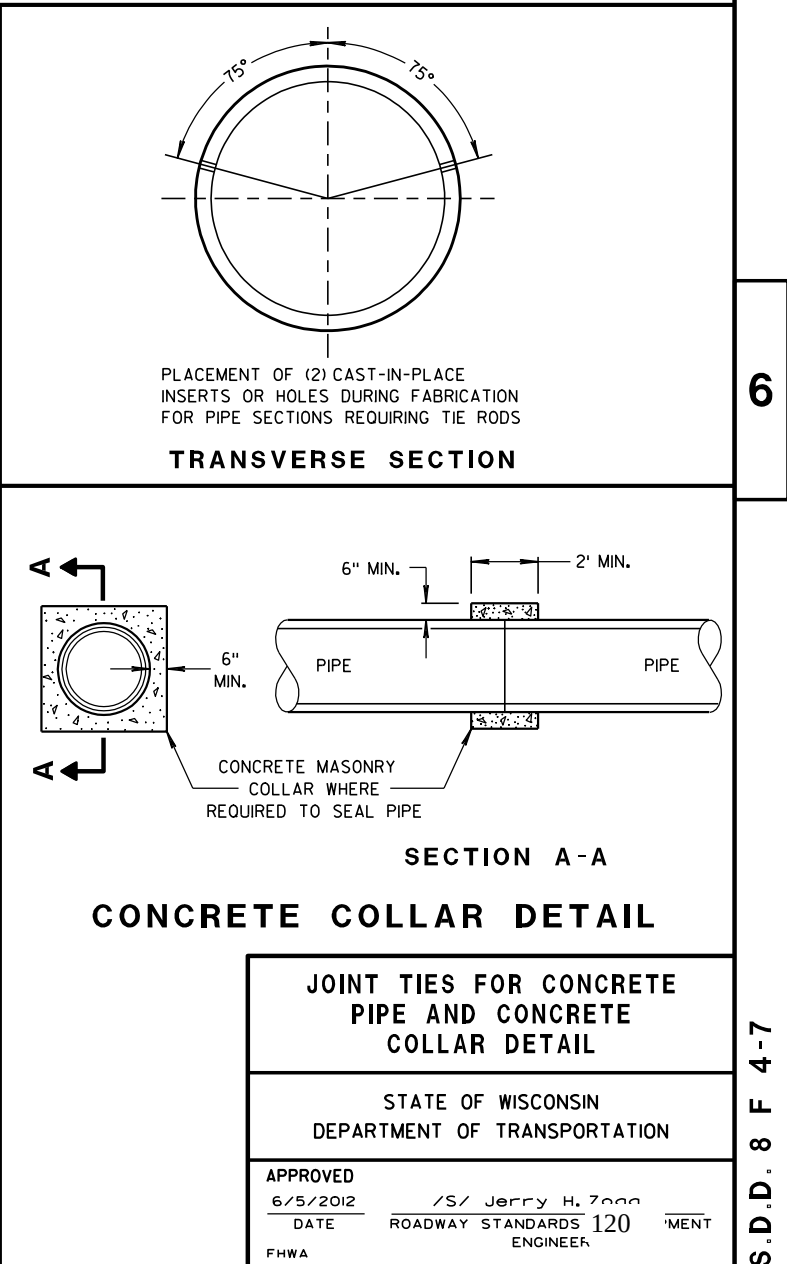
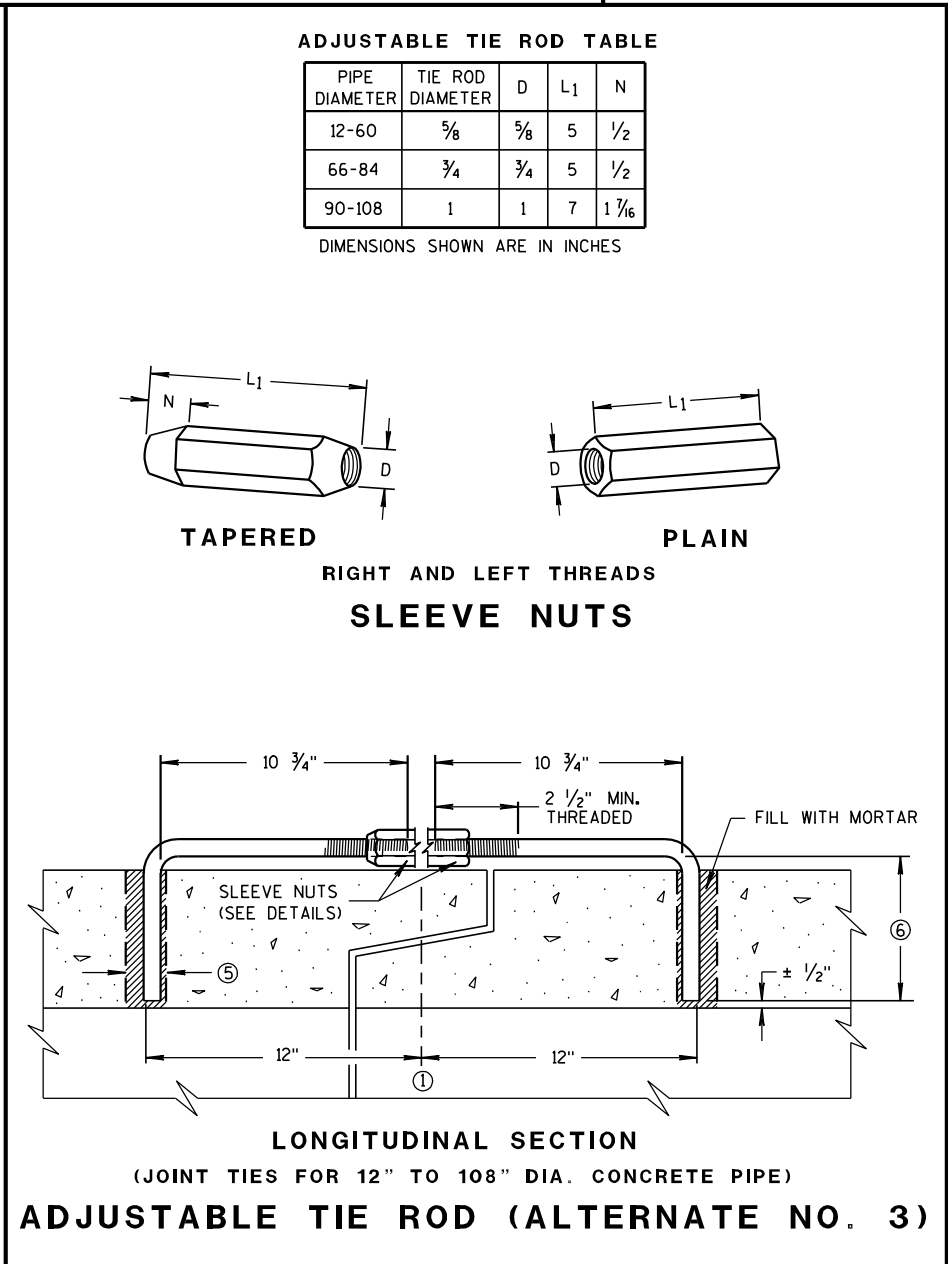
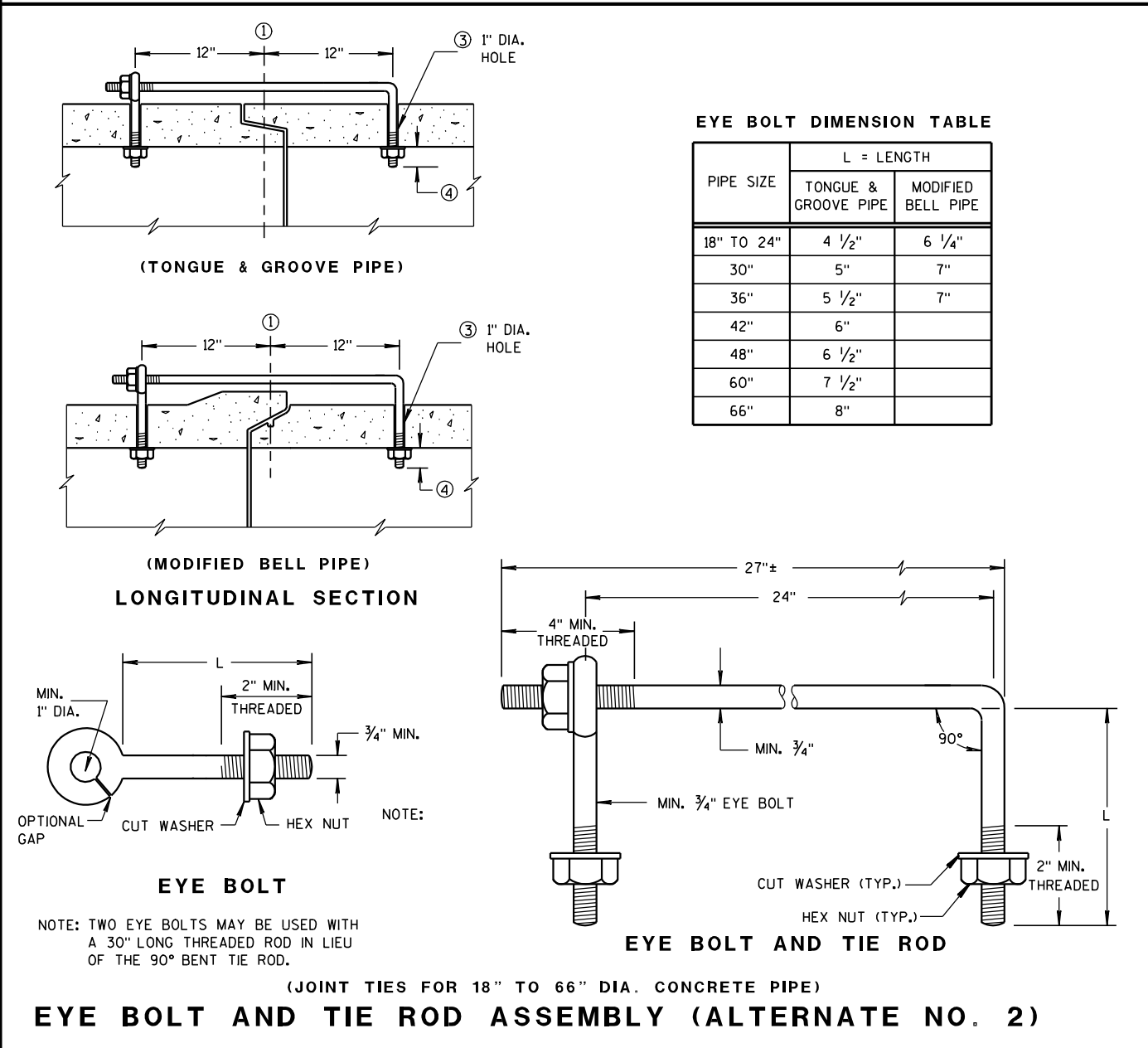
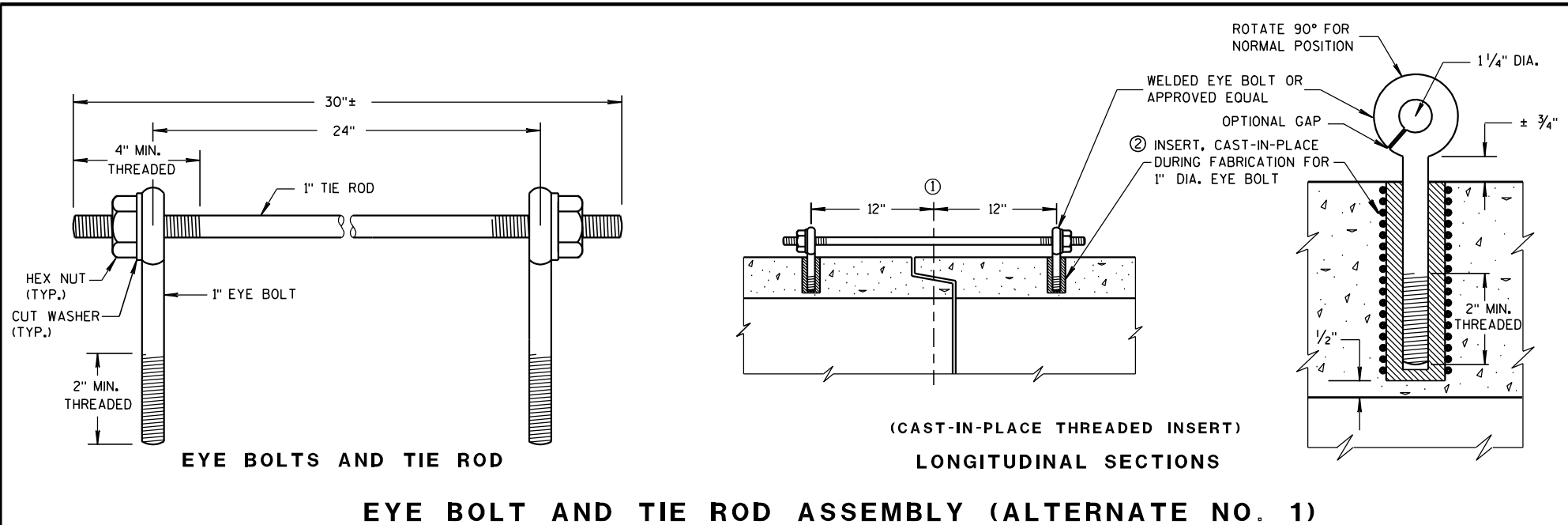
/S/ Rory L. Rhinehart

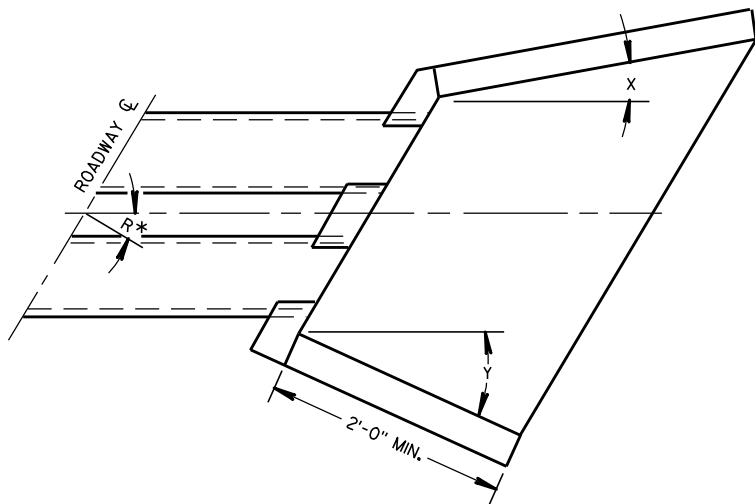
CHIEF ROADWAY DEVELOPER

FHWA

119

ENGINEER





WINGWALL ANGLE DETAILS

INLET			OUTLET		
R*	X	Y	R*	X	Y
0 - 7°	30°	30°	0 - 15°	15°	15°
8 - 22°	25°	"	16 - 45°	10°	"
23 - 37°	20°	"	46 - 75°	5°	"
38 - 52°	15°	"	OVER 75°	0°	"
53 - 67°	10°	"			
68 - 82°	5°	"			
OVER 82°	0°	"			

*R = NUMBER OF DEGREES RIGHT OR LEFT HAND FORWARD

GENERAL NOTES

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

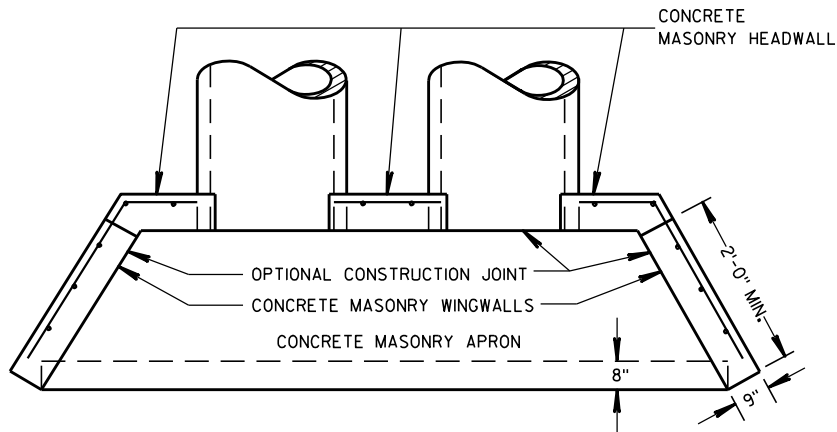
FILL SLOPES FLATTER THAN 2 1/2:1 SHALL BE WARPED TO MEET THE TOP OF THE WINGWALLS.

ALL STEEL REINFORCEMENT AND WELDED STEEL WIRE FABRIC SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE NOTED.

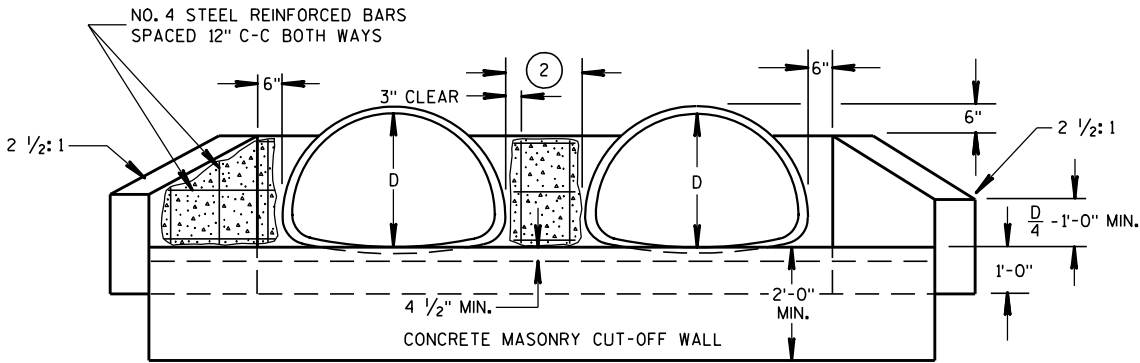
1 MINIMUM REINFORCEMENT SHALL BE 6" X 6" - W4.0 X W4.0 OR NO. 3 BARS SPACED 12" C-C IN BOTH DIRECTIONS.

2 THE SPACE BETWEEN PIPES SHALL BE AS FOLLOWS:

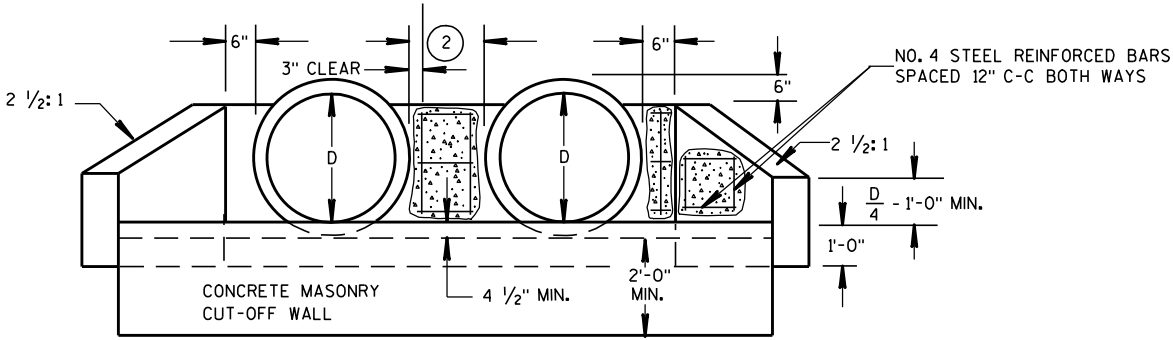
DIAMETER OR SPAN	SPACE
UP TO AND INCLUDING 48"	2'-0"
OVER 48" TO 72"	1/2 DIA. OR SPAN
OVER 72"	3'-0"



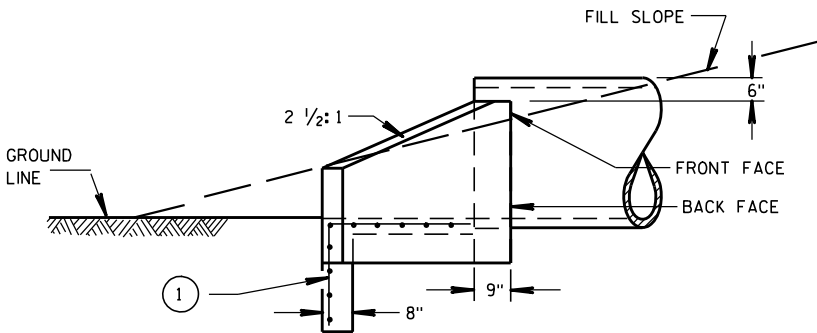
PLAN VIEW
CULVERT PIPE AND PIPE ARCH



END ELEVATION
PIPE ARCH



END ELEVATION
CULVERT PIPE

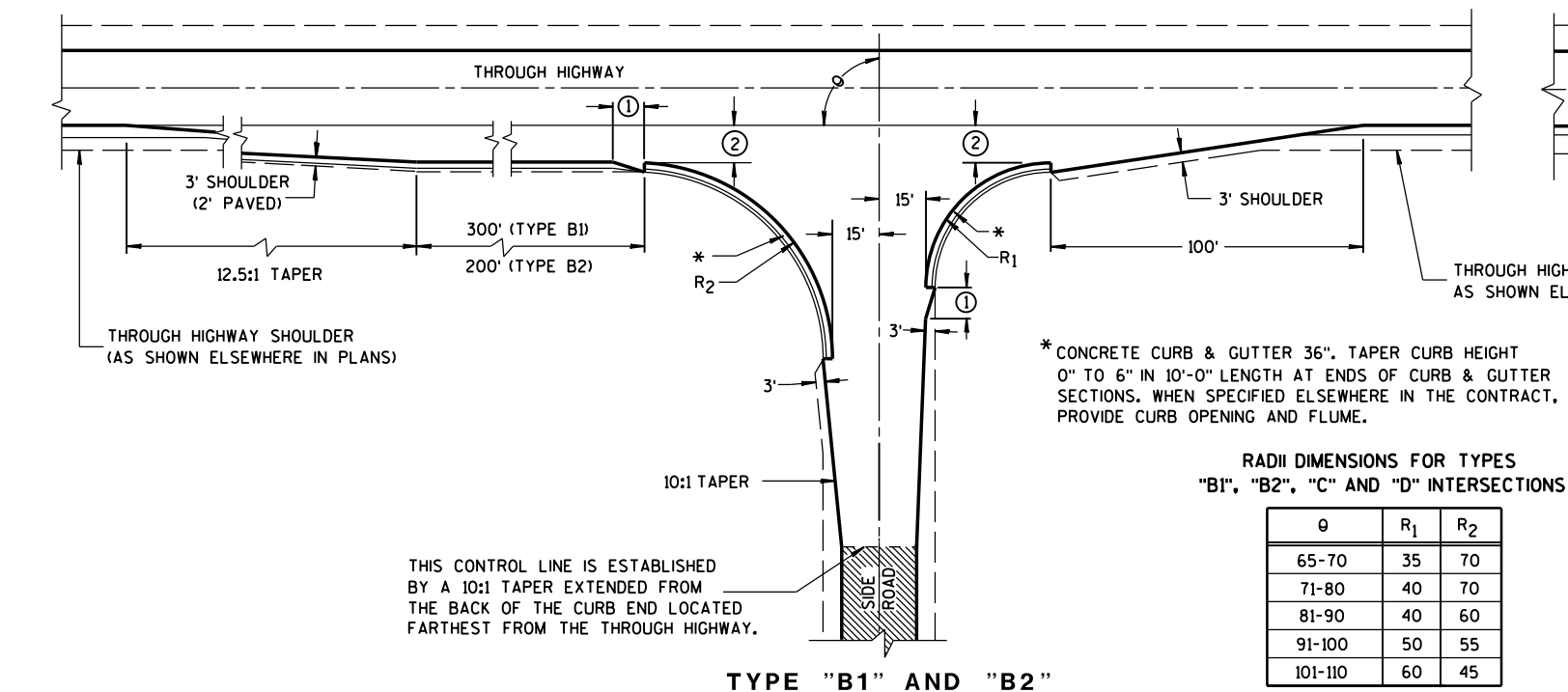


SIDE ELEVATION
CULVERT PIPE AND PIPE ARCH

CONCRETE MASONRY ENDWALLS
FOR CULVERT PIPE AND
PIPE ARCH

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
9/14/98 DATE /S/ Rory L. Rhin...
CHIEF ROADWAY DEVELOPER
FHWA



GENERAL NOTES

DESIGNS MAY BE USED INTERCHANGEABLY IN COMBINATION OR SEPARATELY FOR ANY ONE COMPLETE INTERSECTION DEPENDING UPON INTERSECTION ANGLE AND SURFACING OF EACH APPROACH ROADWAY.

SIDE ROAD SURFACING NOTE

WHEN THE SIDE ROAD IS NOT PRESENTLY PAVED, PAVEMENT SHALL BE PLACED TO THE LIMITS SHOWN UNLESS OTHERWISE PROVIDED IN THE CONTRACT. WHERE THE CONSTRUCTION LIMITS ARE BEYOND THE PAVING LIMITS, CRUSHED AGGREGATE SURFACING SHALL BE PLACED BETWEEN THE PAVING LIMITS AND CONSTRUCTION LIMITS.

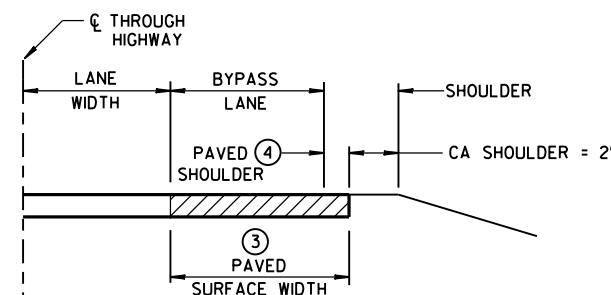
WHEN THE SIDE ROAD IS PRESENTLY PAVED, NEW PAVEMENT SHALL BE PLACED TO THE LIMITS OF DESIGN AS SHOWN AND BEYOND, IF NECESSARY, TO MEET EXISTING PAVEMENT.

WHEN THE SIDE ROAD IS THE CONSTRUCTION PROJECT, THE INTERSECTION SURFACING SHALL BE THE SAME AS FOR THE PROJECT.

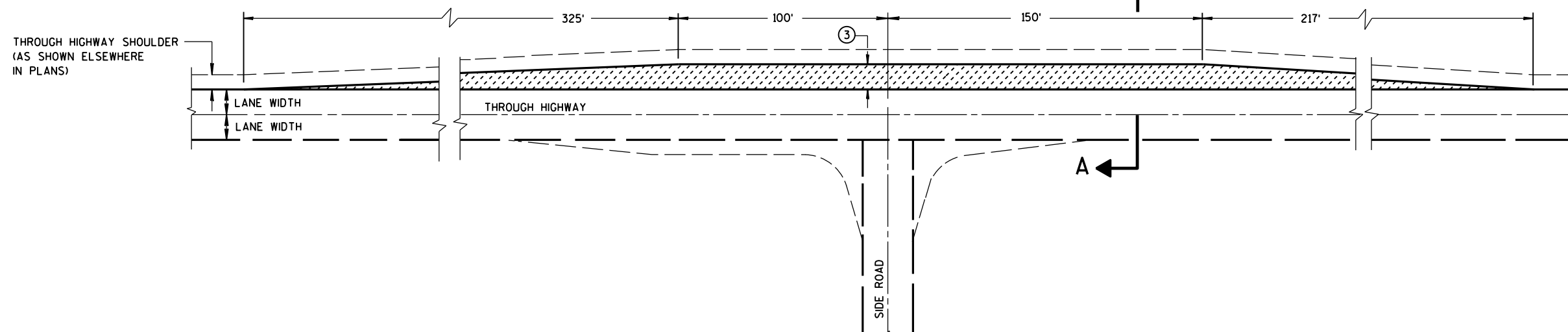
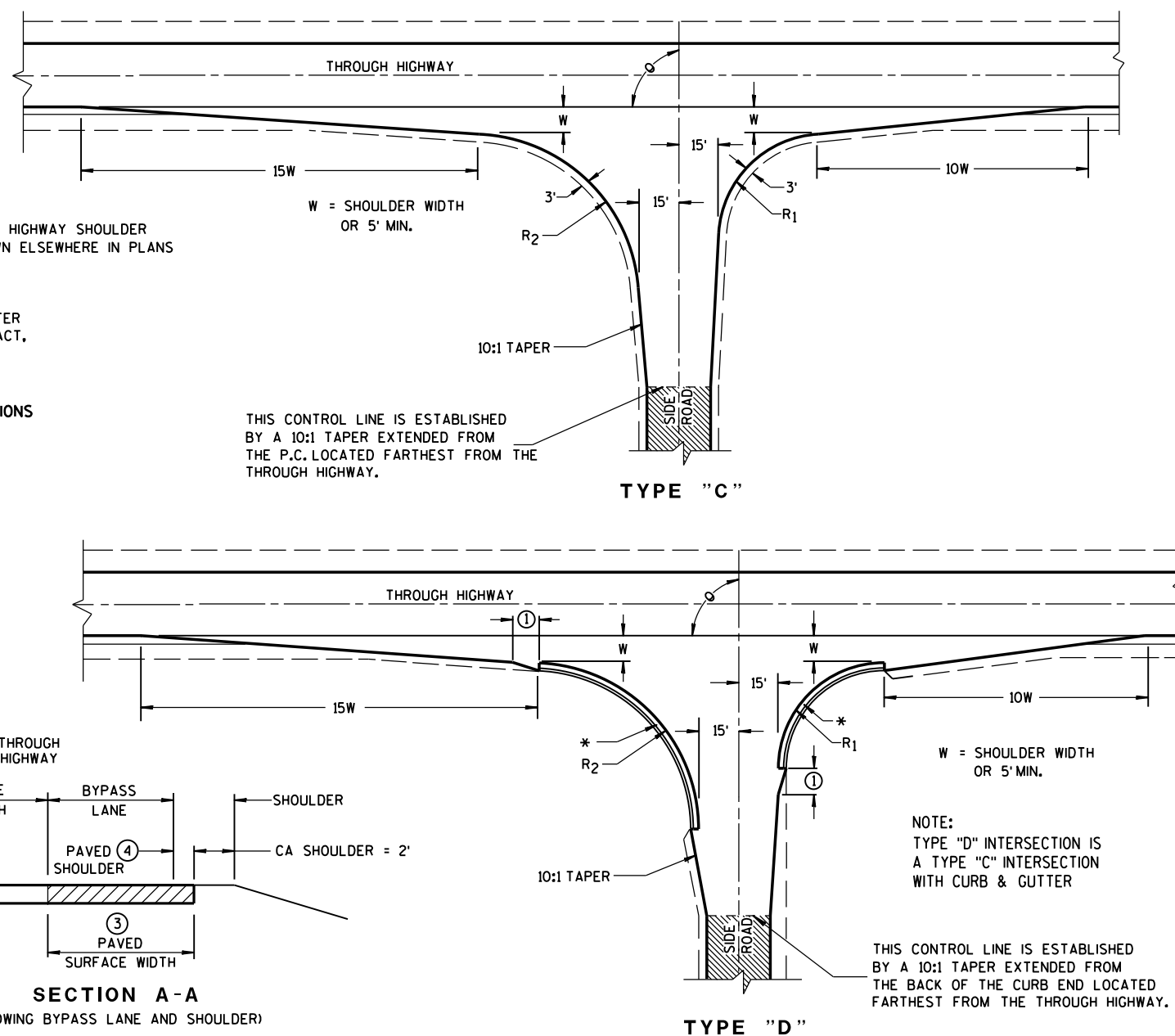
EXISTING PAVED SURFACE

BYPASS LANE

- ① 10-FT TYPICAL.
- ② 12-FT** PLUS ADDITIONAL WIDTH FOR BIKE LANE IF SHOWN ELSEWHERE IN THE PLAN.
- **10-FT MAY BE USED ON TYPE B2 ON RESURFACING PROJECTS IF SPECIFIED IN THE CONTRACT.
- ③ BYPASS LANE PAVED SURFACE WIDTH OUTSIDE OF TRAVEL LANE
-ASPHALT = 12-FT PLUS PAVED SHOULDER WIDTH.
-PC CPNCRETE = 13-FT PLUS PAVED SHOULDER WIDTH.
- ④ BYPASS LANE PAVED SHOULDER WIDTH = THE GREATER OF 1-FT OR THE PAVED SHOULDER WIDTH OF THE THROUGH HIGHWAY.



SECTION A-A
(SHOWING BYPASS LANE AND SHOULDER)



TEE INTERSECTION BYPASS LANE DETAIL

AT-GRADE SIDE ROAD
INTERSECTION, TYPES "B1", "B2",
"C" AND "D" AND TEE
INTERSECTION BYPASS LANE

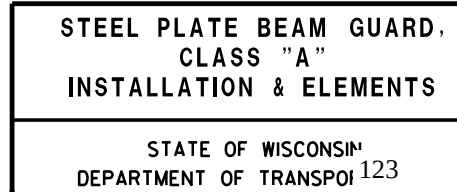
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

S.D.D. 14 B 15-8a

- 6

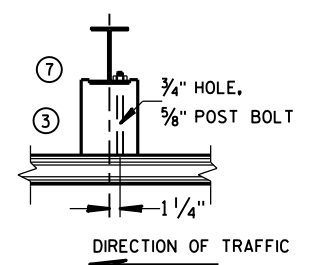
S.D.D. 14 B 15-8a



PLAN VIEW
STEEL POST, NOTCHED
PLASTIC BLOCKOUT & BEAM

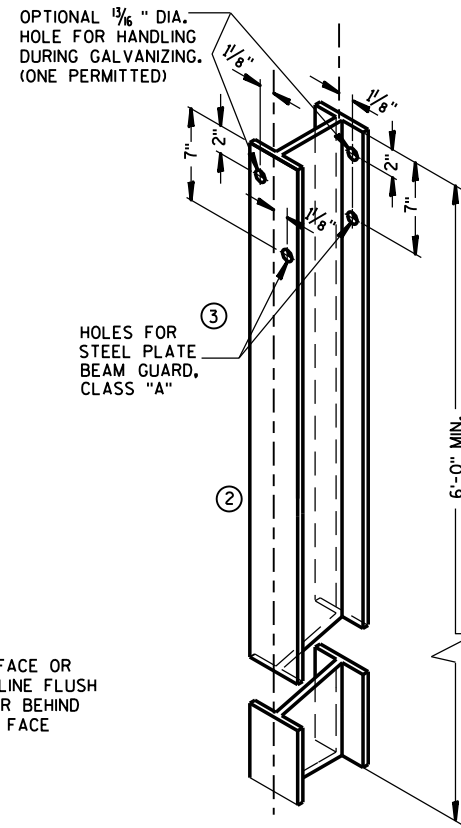


PLAN VIEW
WOOD POST, BLOCKOUT & BEAM



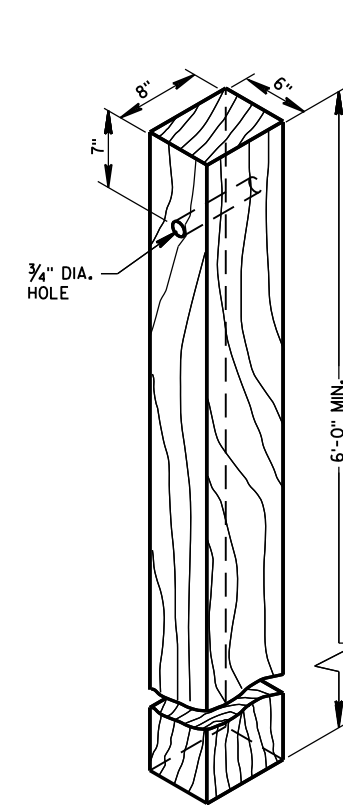
PLAN VIEW
STEEL POST, NOTCHED
PLASTIC BLOCKOUT & BEAM

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



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

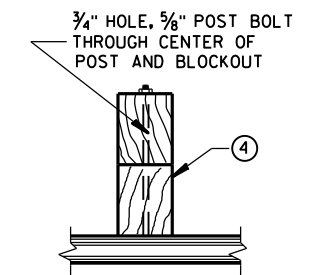
ALL HOLES 1 3/16" DIAMETER EXCEPT AS NOTED



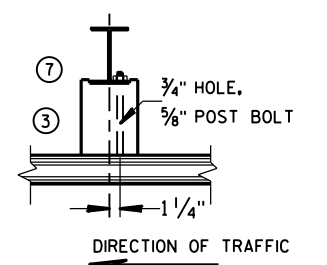
Isometric view of a rectangular box with the following dimensions and features:

- Overall height: 1'-2"
- Overall width: 8"
- Overall depth: 4 1/4"
- Top surface width: 7"
- Top surface depth: 3 5/8"
- Bottom surface width: 7"
- Bottom surface depth: 1 5/8"
- A 3/4" DIA. HOLE is located on the front face, centered vertically and horizontally.

TYPICAL NOTCHED PLASTIC BLOCKOUT FOR STEEL POSTS ^①



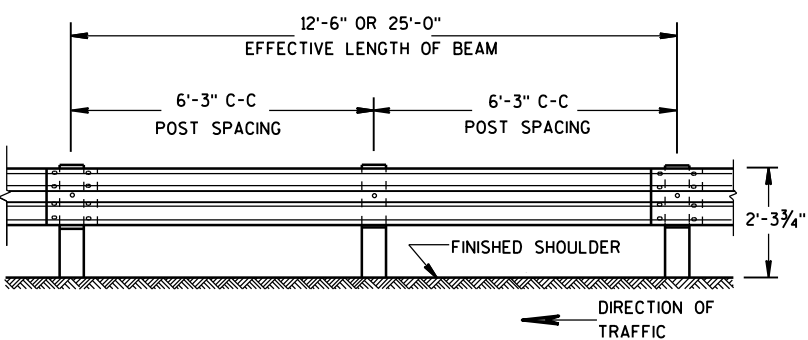
PLAN VIEW
WOOD POST, BLOCKOUT & BEAM



PLAN VIEW
STEEL POST, NOTCHED
PLASTIC BLOCKOUT & BEAM

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

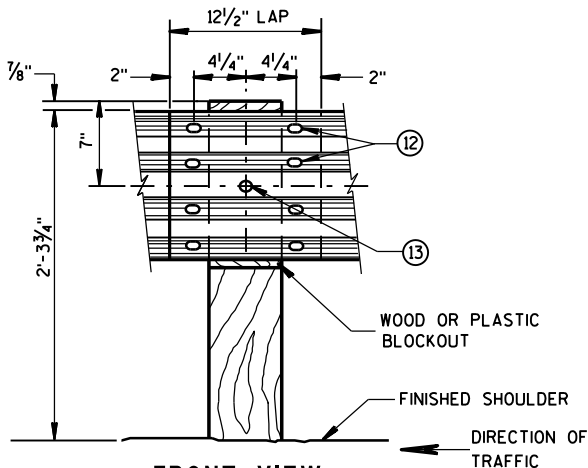
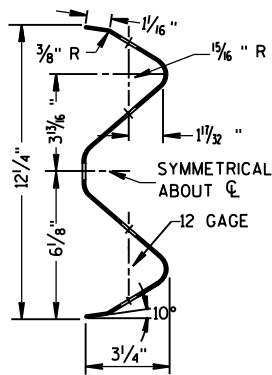
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION 123



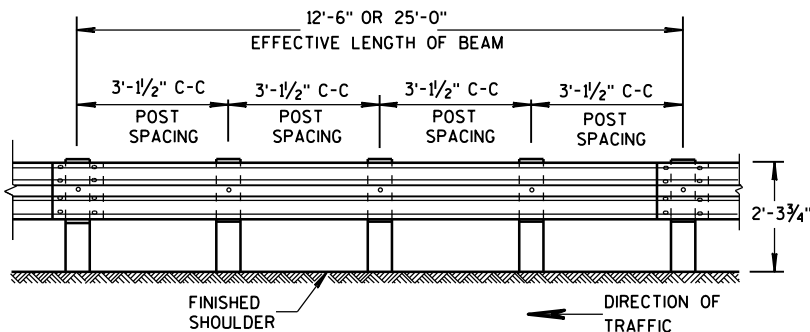
FRONT VIEW

POST SPACING STANDARD INSTALLATION

SECTION THRU W BEAM

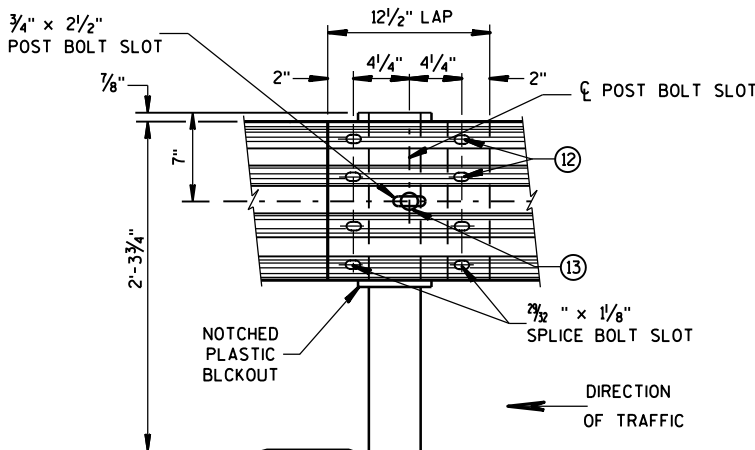


FRONT VIEW
BEAM SPLICE AT WOOD POST
AND POST MOUNTING DETAIL



FRONT VIEW

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

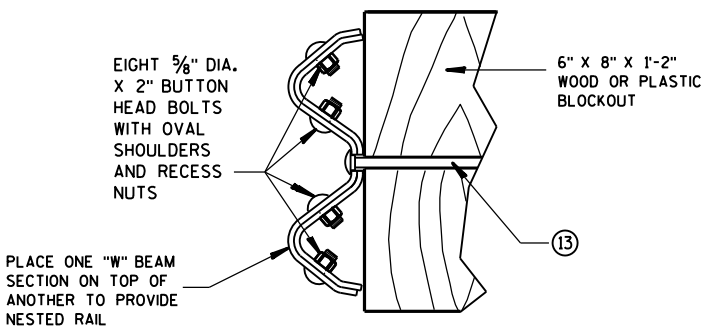


FRONT VIEW
BEAM SPLICE AT STEEL POST

TYPICAL SPLICING DETAILS OF STEEL PLATE BEAM GUARD

GENERAL NOTES

- ⑧ PROVIDE SILVER REFLECTIVE SHEETING ON ALL REFLECTORS EXCEPT THOSE LOCATED ALONG THE LEFT EDGE OF ONE-WAY ROADWAYS, WHICH SHALL BE PROVIDED WITH YELLOW REFLECTIVE SHEETING. SHEETING IS TYPE H. SEE STANDARD SPECIFICATION 637.
- ⑨ DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.
- ⑩ REVERSE EVERY OTHER REFLECTOR FOR 2-WAY VISIBILITY. THE CONTRACTOR MAY FURNISH TWO-SIDED REFLECTORS IN LIEU OF ONE-SIDED REFLECTORS.
- ⑪ PROVIDE AN ANGLE OF BEND OF $90^\circ \pm 1^\circ$ FOR TWO-SIDED REFLECTORS.
- ⑫ 8 - 5/8" ϕ X 2" BUTTON HEAD BOLTS WITH OVAL SHOULDERS & RECESS NUTS.
- ⑬ 5/8" DIA. BUTTON HEAD BOLT AND RECESS NUT WITH 5/8" DIA. F844 FLAT WASHER UNDER NUT.

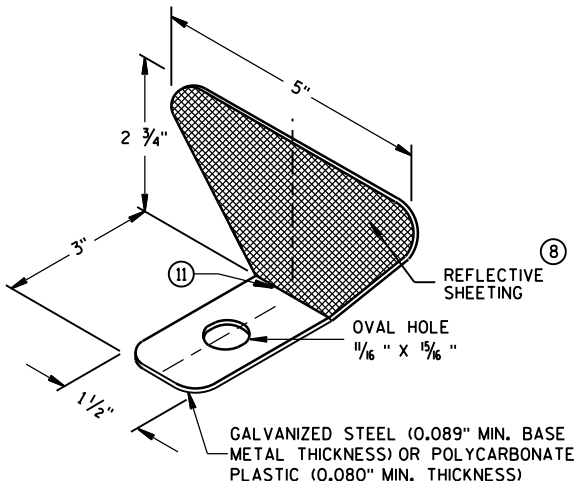
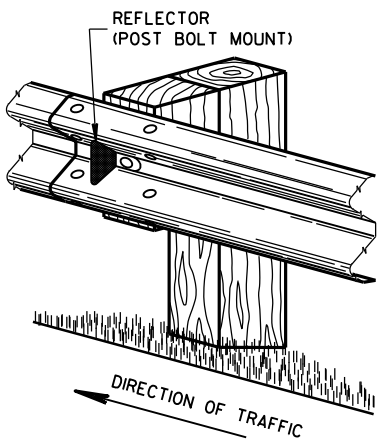


NESTED W BEAM (NW)

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

REFLECTOR SPACING ⑨

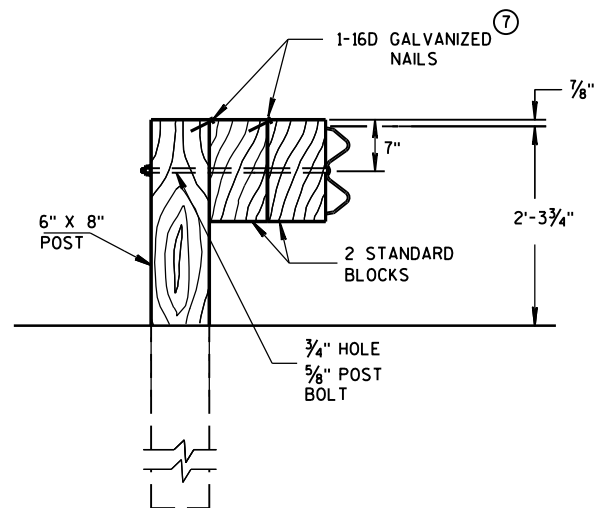
	BEAM GUARD LENGTH	REFLECTOR SPACING	NO. SURFACES REFLECTORIZED	MIN. NO. REFLECTORS
ONE WAY TRAFFIC	< 200'	50' C-C	1	3
	> 200'	100' C-C	1	
TWO WAY TRAFFIC	< 200'	25' C-C	1 ⑩	6
	> 200'	50' C-C	1 ⑩	
TWO WAY TRAFFIC	< 200'	50' C-C	2 ⑪	3
	> 200'	100' C-C	2 ⑪	



ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION

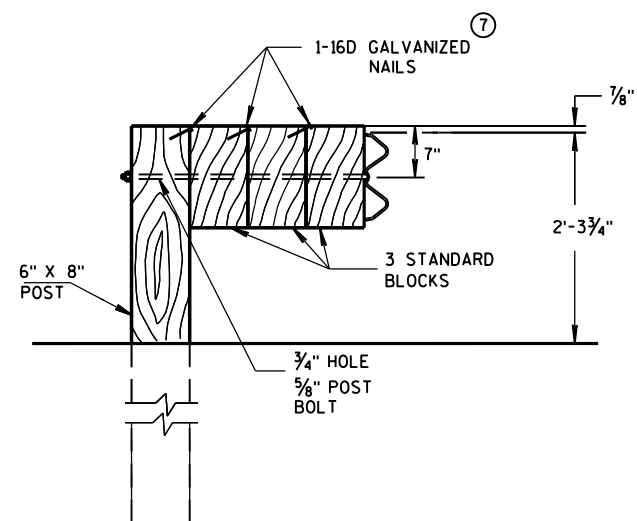
STEEL PLATE BEAM GUARD,
CLASS "A",
INSTALLATION & ELEMENTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION 124



DETAIL FOR DOUBLE BLOCKS

THE NUMBER OF DOUBLE BLOCK POSTS
WITHIN A BARRIER RUN IS UNLIMITED

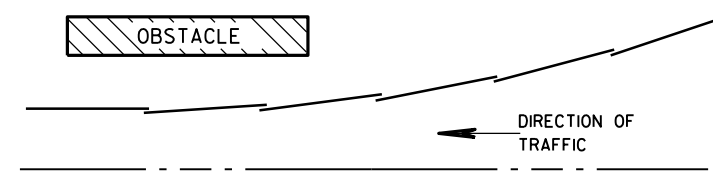


DETAIL FOR TRIPLE BLOCKS

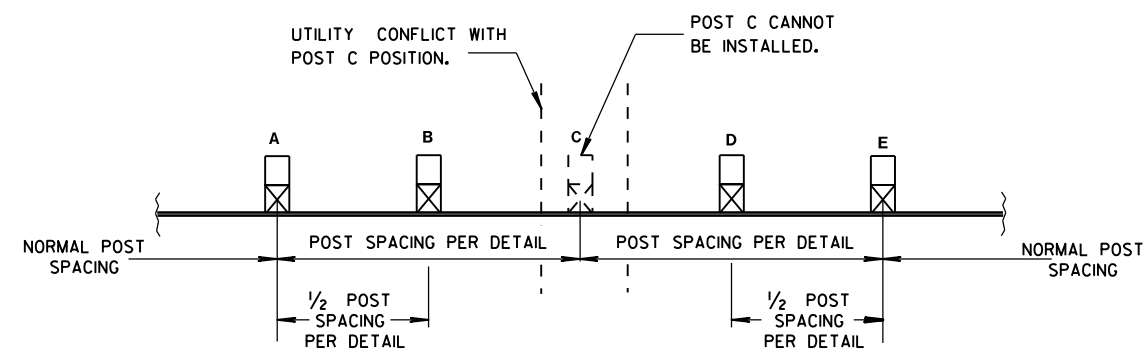
TRIPLE BLOCK DETAIL IS LIMITED TO ONE
LOCATION WITHIN A BEAM GUARD RUN.

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.



PLAN VIEW BEAM LAPPING DETAIL

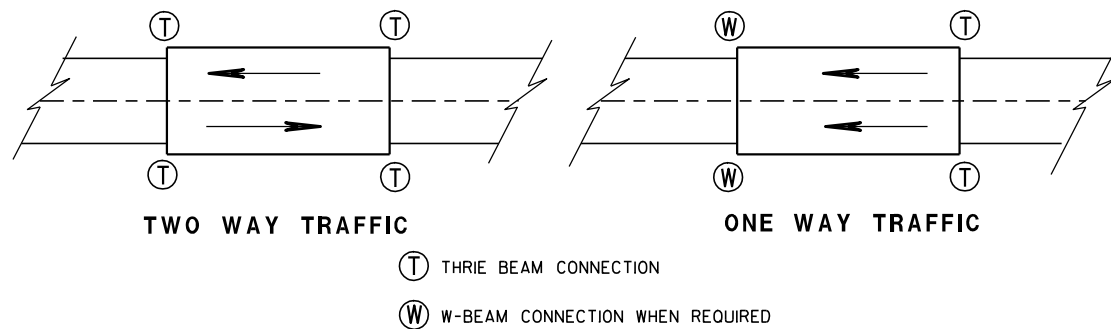
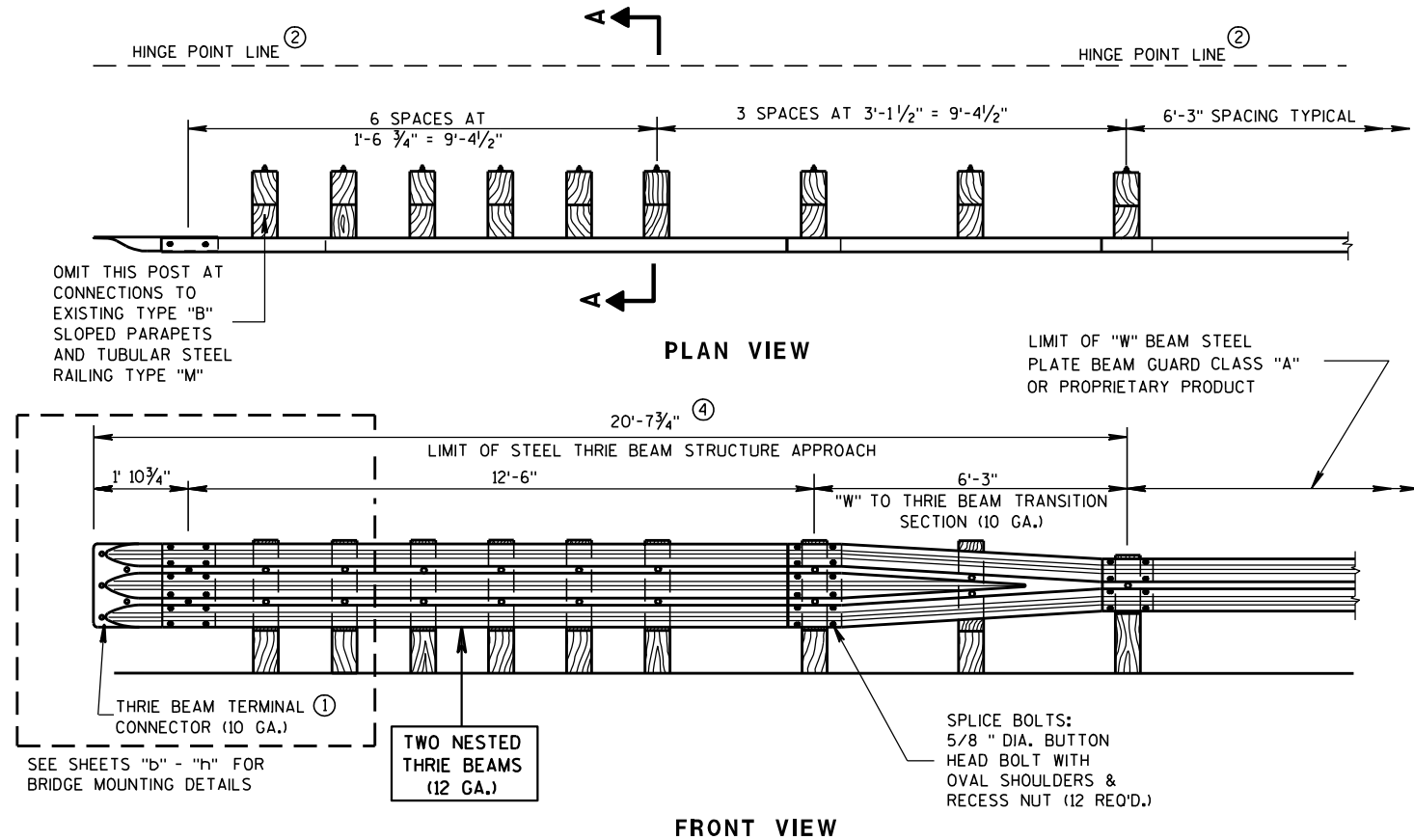


POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION

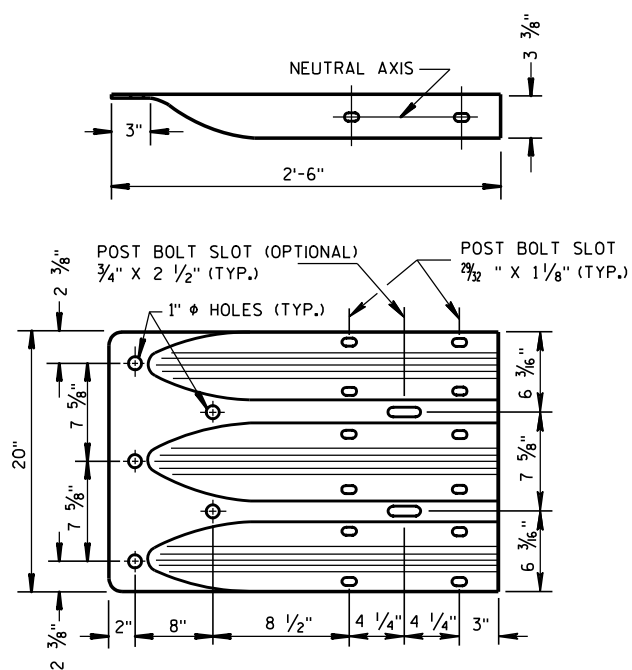
STEEL PLATE BEAM GUARD,
CLASS "A",
INSTALLATION & ELEMENTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

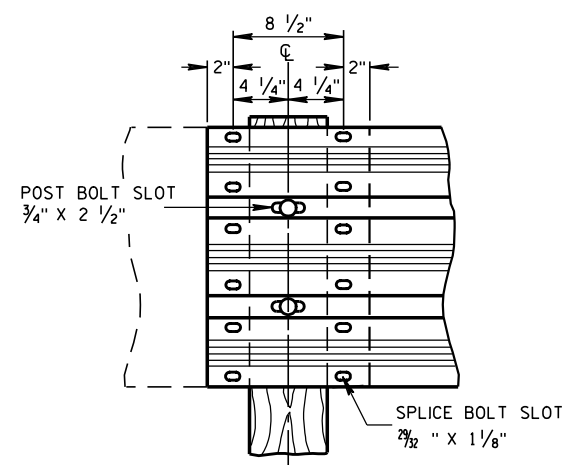
APPROVED
June 2014 /S/ Jerry H. Zogg
DATE ROADWAY STANDARDS ENGINEER
FHWA 125



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



THRIE BEAM TERMINAL CONNECTOR



THRIE BEAM SPLICE

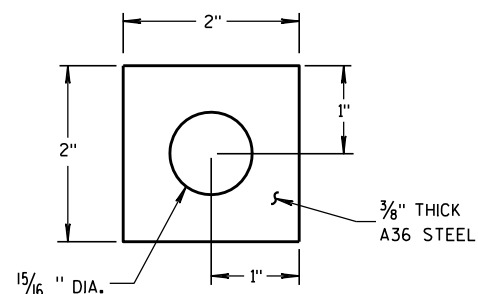
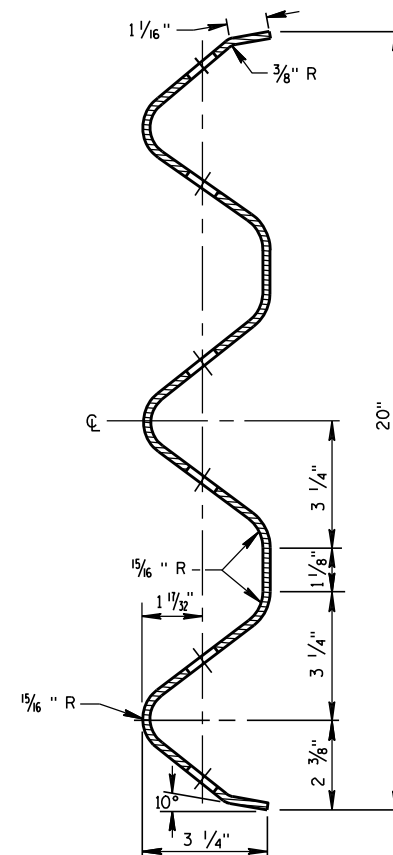


PLATE WASHER DETAIL



SECTION THRU THRIE BEAM RAIL ELEMENT

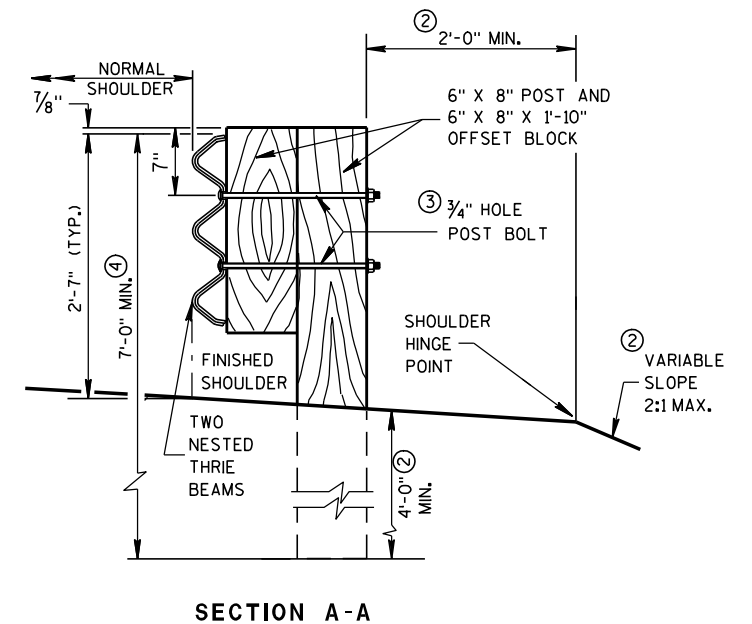
GENERAL NOTES

BOLT THE THRIE BEAM TO ALL POSTS AND BLOCKOUTS. DRILL OR PUNCH BOLT HOLES IN THE BEAM IF THE POST SPACING IS LESS THAN 6'-3".

DO NOT USE STEEL POSTS AND NOTCHED PLASTIC BLOCKOUTS IN THE STEEL THRIE BEAM STRUCTURAL APPROACH AND THE TRANSITION SECTION OF STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATIONS.

IF ROCK IS ENCOUNTERED, REMOVE ROCK TO FULL DEPTH OF POST PLUS 2 1/2", AND 12" DIAMETER AROUND POST. SEE 14B15 FOR MORE DETAILS.

- ① BRIDGE RAILING TYPE "W" DOES NOT REQUIRE A TERMINAL CONNECTOR.
- ② MINIMUM EMBEDMENT SHALL BE 4'-0". WHERE EXISTING CONDITIONS DO NOT PERMIT THE APPROPRIATE EARTHWORK SHOWN ON THE PLAN TYPICAL SECTIONS OR DETAILS, THE ENGINEER MAY ALLOW THE REDUCTION OR ELIMINATION OF THE 2 FOOT DISTANCE TO THE HINGE POINT. OTHERWISE BUILD AS THE PLAN SHOWS OR AS THE ENGINEER DIRECTS. IF THE 2 FOOT DISTANCE TO THE HINGE POINT IS REDUCED OR ELIMINATED, INCREASE THE POST EMBEDMENT DEPTH TO 4'-6" OR MORE.
- ③ POST BOLTS ARE 5/8" DIAMETER ASTM A307 BUTTON HEAD BOLT. A POST BOLT REQUIRES A 5/8" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX AND A 5/8" DIAMETER F844 FLAT WASHER. LENGTH OF POST BOLT MAY VARY.
- ④ ALL WOOD POSTS MUST BE 6" X 8" AND AT LEAST 7'-0" LONG.



STEEL THRIE BEAM STRUCTURE APPROACH

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

8/31/2012
DATE

FHWA

/s/ Jerry H. Zoon
ROADWAY STANDARDS 126
ENGINEER

INT

BILL OF MATERIALS

NOTE NO.	QTY.	DESCRIPTION
①	4	WOOD BREAKAWAY TERMINAL POST: 5 1/2" X 7 1/2" X 3'-9"
②	**	STEEL TUBE: OPTION 1 - QUANTITY OF 4 TS 8" X 6" X 0.188", 4'-6" LONG OR OPTION 2 - QUANTITY OF 2 TS 8" X 6" X 0.188", 6'-0" AND 2 TS 8" X 6" X 0.188", 4'-6" LONG
③	2	SOIL PLATE: 2'-0" X 1'-6" X 1/4" **
④	4	WOOD BREAKAWAY CRT POST: 6" X 8" X 6'-0"
⑤	6	WOOD OFFSET BLOCKS: 6' X 8" X 1'-2"
⑥	1	PIPE SLEEVE: 2" X 5 1/2" STANDARD PIPE
⑦	1	BEARING PLATE
⑧	1	BCT CABLE ASSEMBLY
⑨	1	CABLE ANCHOR BOX
⑩	1	STRUT & YOKE
⑪	1	STEEL PLATE BEAM, END PANEL 12 GA. 13'-6 1/2" LONG FOR SKT-350, ET-2000 AND ET-2000 PLUS
⑫	3	STEEL PLATE BEAM: 12 GA. 13'-6 1/2"
⑬	1	ET-2000/ET-2000 PLUS GUARDRAIL EXTRUDER OR SKT-350 IMPACT HEAD: AS FURNISHED BY MANUFACTURER
⑭	1	0.040" ALUMINUM SHEET WITH REFLECTIVE SHEETING TYPE F PER SECTION 637 OF THE STANDARD SPECIFICATIONS
⑮	1	E.A.T. MARKER POST

GENERAL NOTES

FOLLOW MANUFACTURE'S BOLTING RECOMMENDATIONS, IF NONE ARE AVAILABLE, INSTALL 3/8" ϕ X 1'-6" BUTTON HEAD BOLTS AT ALL POSTS EXCEPT FOR POST 1.

(A) THE SLOPE IN THE AREA BOUNDED BY THE GRADELINE, THE HINGE POINT LINE (HPL), AND THE CLEAR ZONE LIMITS (CZL) SHALL BE 4:1 OR FLATTER.

(B) AFTER FINAL ASSEMBLY, RECHECK CABLE TO BE SURE IT IS TAUT AND HAS NOT RELAXED.

(C) THE 13 SLOT FIRST RAIL PANEL MAY BE USED IN LIEU OF THE 3 SLOT RAIL PANEL ON SKT-350 ONLY.

(D) THE TOP OF THE STEEL TUBE ON POSTS 1 THROUGH 4 SHALL NOT BE MORE THAN 3" ABOVE THE FINISH GROUND ELEVATION.

(E) THE CENTER OF THE UPPER 3/2" DIAMETER HOLE ON POST 5 THROUGH 8 SHALL BE 3/4" ABOVE THE FINISHED GROUND LINE.

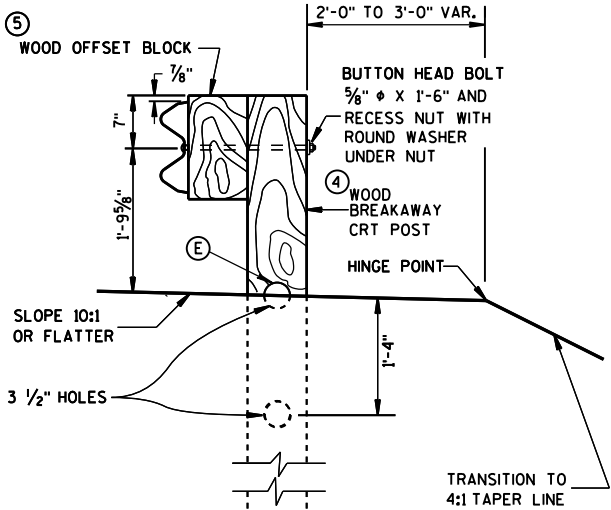
(F) ATTACH ALUMINUM SHEET TO E.A.T. HEAD USING 4 STAINLESS STEEL SELF-TAPPING SCREWS, ONE SCREW PER CORNER.

STEEL POSTS SHALL NOT BE ALLOWED FOR USE WITH ENERGY ABSORBING TERMINALS.

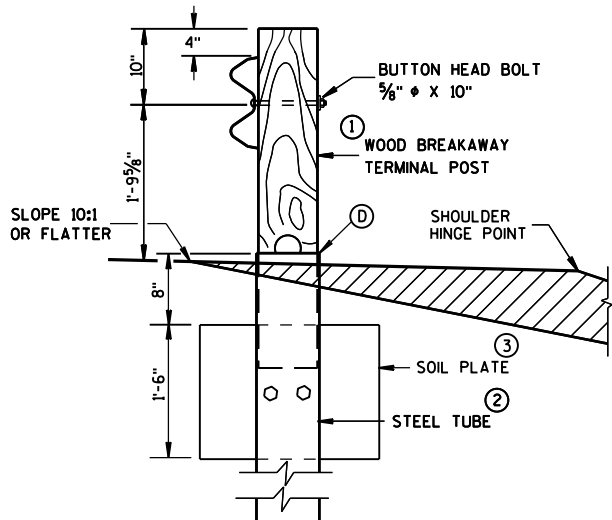
DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

* DO NOT ATTACH BLOCKOUTS TO POSTS 1 AND 2.

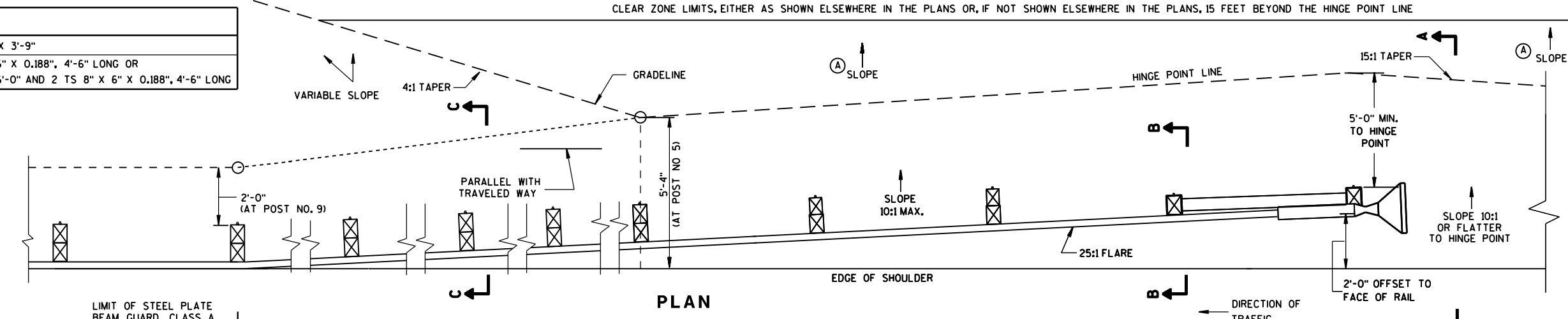
** SDD SHOWS 4 - 54 INCH STEEL TUBES WITH SOIL PLATES INSTALLED ON POST 1 AND POST 2. POST 3 AND 4 DO NOT NEED SOIL PLATES. AN ALTERNATIVE INSTALLATION WOULD CONSIST OF 2 - 72 INCH STEEL TUBES ON POST 1 AND POST 2 AND 54 INCH SOIL TUBES ON POSTS 3 AND 4. THE ALTERNATIVE INSTALLATION DOES NOT REQUIRE SOIL PLATES.



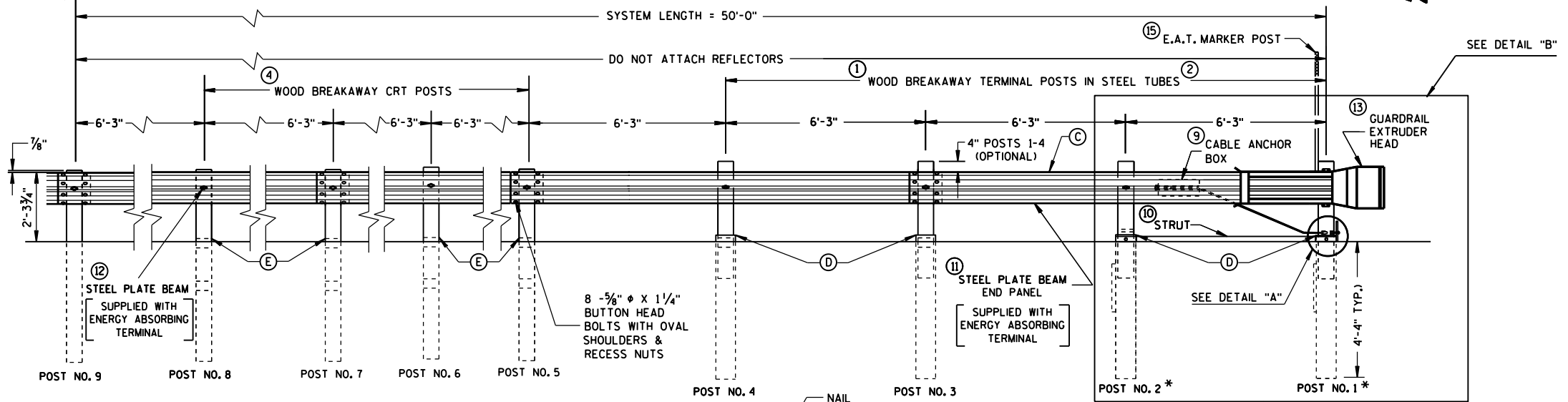
SECTION C-C
TYPICAL AT POST NOS. 6, 8



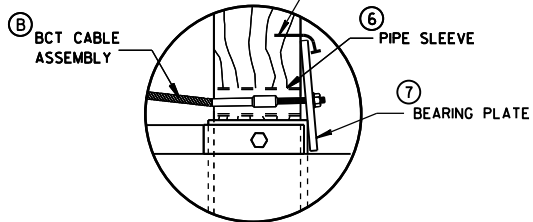
SECTION B-B
TYPICAL AT POST NO. 2 *



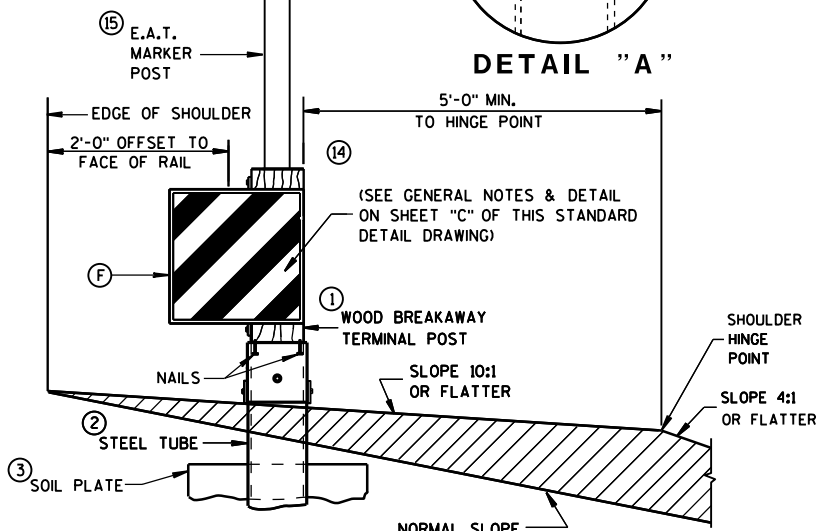
PLAN



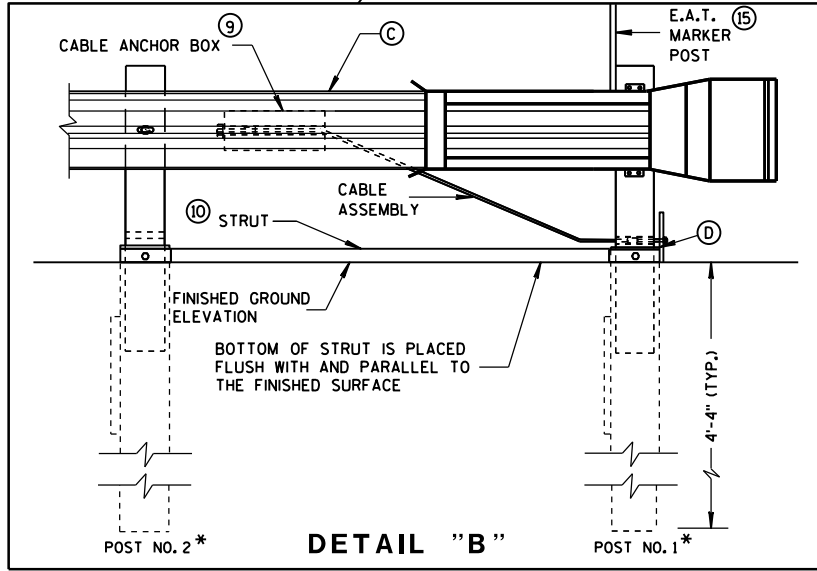
ELEVATION



DETAIL "A"



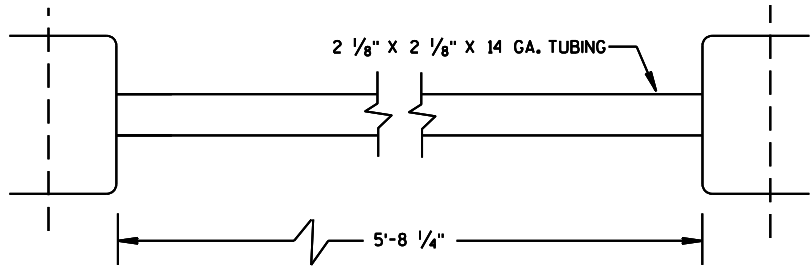
SECTION A-A
TYPICAL AT POST NO. 1 *



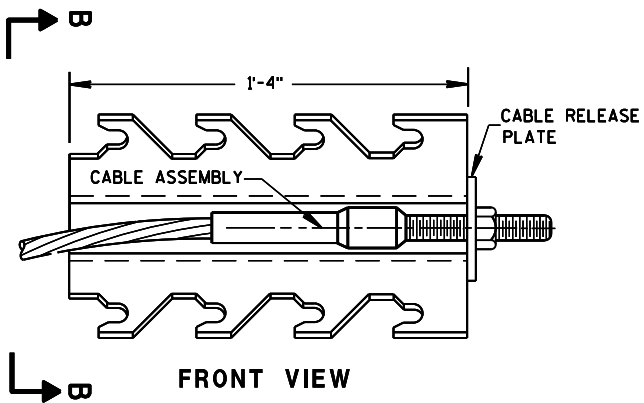
DETAIL "B"

STEEL PLATE BEAM GUARD
ENERGY ABSORBING TERMINAL

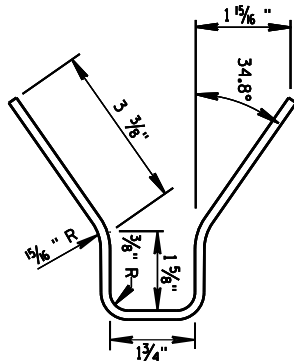
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



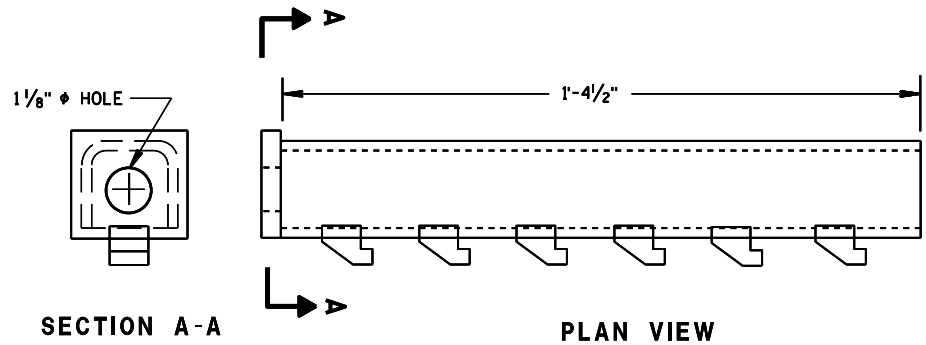
10 STRUT DETAIL (SKT-350)



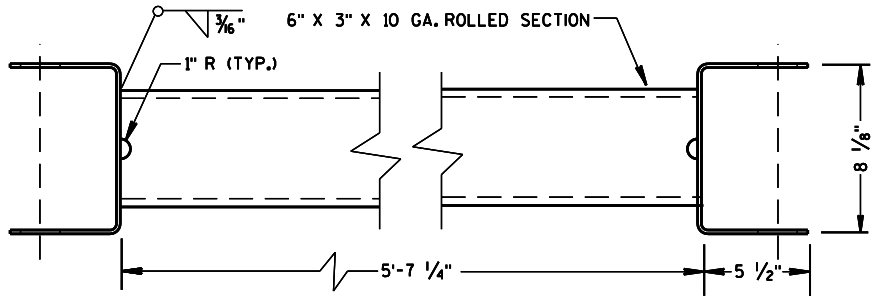
9 CABLE ANCHOR BOX (SKT-350)
(SKT-350)



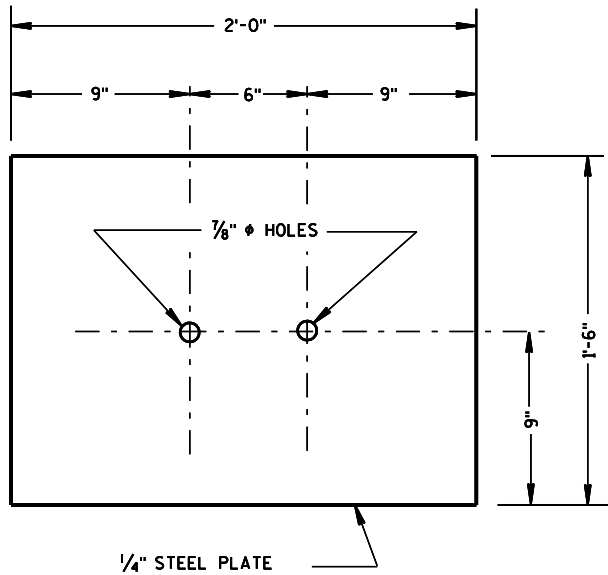
SECTION B-B



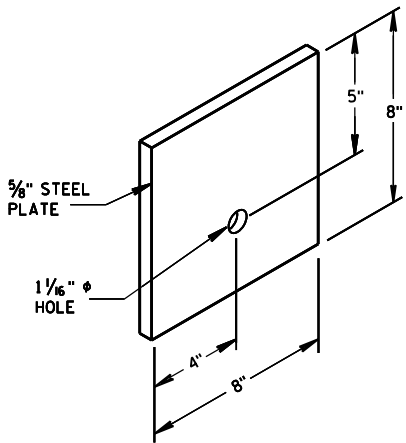
9 CABLE ANCHOR BOX (ET-2000/ET-2000 PLUS)



10 STRUT DETAIL (ET-2000/ET-2000 PLUS)
(ET-2000/ET-2000 PLUS)



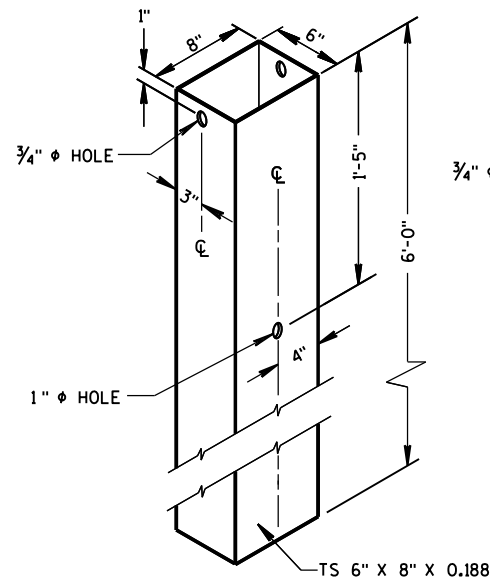
3 SOIL PLATE
(SKT-350, ET-2000/ET-2000 PLUS)



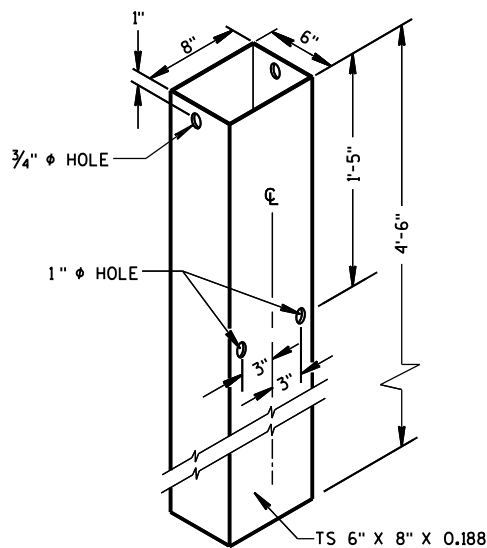
7 STEEL BEARING PLATE
(SKT-350, ET-2000/ET-2000 PLUS)

STEEL PLATE BEAM GUARD
ENERGY ABSORBING TERMINAL

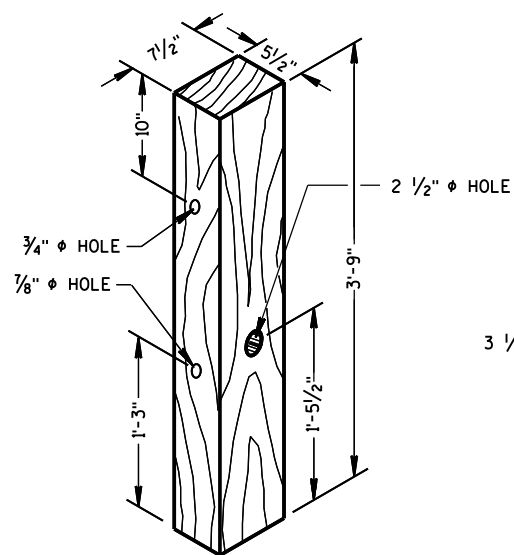
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION 128



② **72" STEEL TUBE**
(POSTS NO. 1-4)

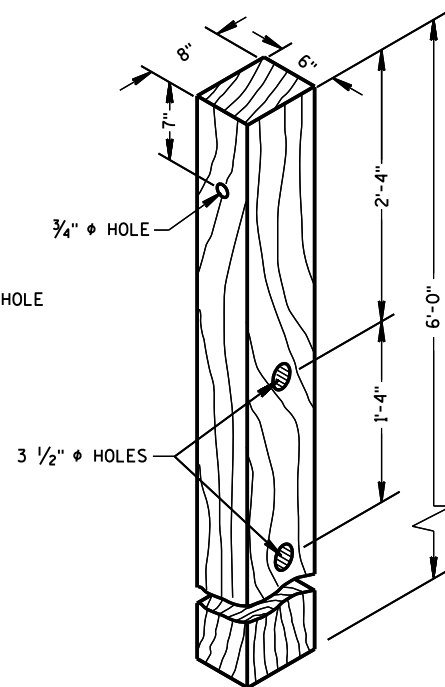


② **54" STEEL TUBE**
(POSTS NO. 1-4)



① **TERMINAL POST**
(POSTS NO. 1-4)

WOOD BREAKAWAY POSTS



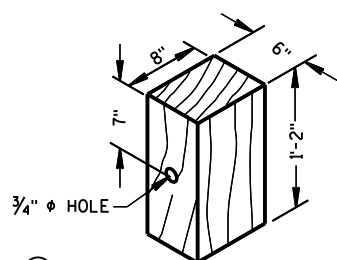
④ **CRT POST**
(POSTS NO'S 5-8)

GENERAL NOTES

WHEN ROCK IS ENCOUNTERED DURING EXCAVATION, A 12 INCH DIA. POST HOLE EXTENDING 20 INCHES DEEP INTO THE ROCK MAY BE USED IF APPROVED BY THE ENGINEER. GRANULAR MATERIAL SHALL BE PLACED IN THE BOTTOM OF THE HOLE APPROXIMATELY 2 1/2" INCHES DEEP TO PROVIDE DRAINAGE. THE SOIL TUBES SHALL BE FIELD CUT TO LENGTH, PLACED IN THE HOLE AND BACKFILLED WITH ADEQUATELY COMPACTED MATERIAL EXCAVATED FROM THE HOLE.

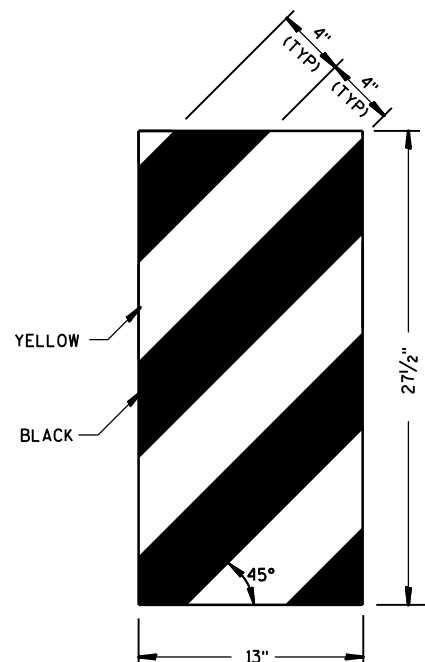
SEE APPROVED PRODUCTS LIST FOR ACCEPTABLE E. A. T. MARKER POST.

ⓐ 1/2" DIA. X 3" LAG BOLT WITH WASHER.



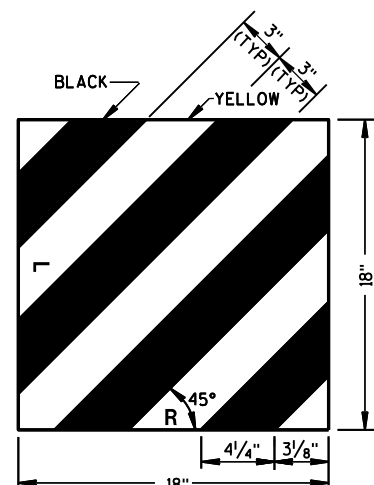
⑤ **WOOD OFFSET BLOCK**
REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2

TYPE H
YELLOW REFLECTIVE
SHEETING 3" X 9"
SEE STANDARD
SPECIFICATION 637

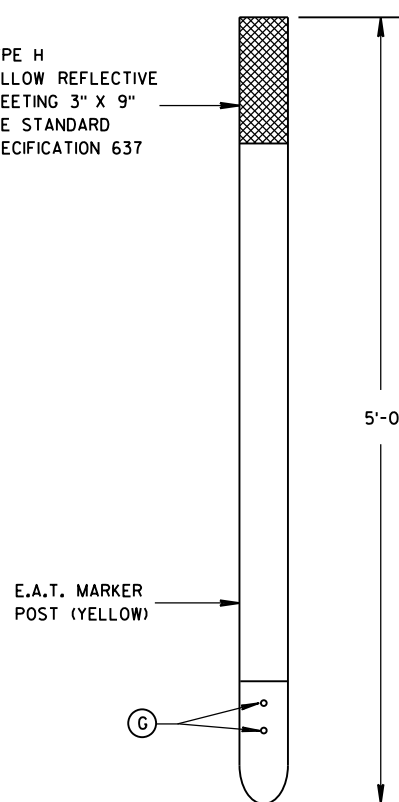


ET-2000 PLUS ONLY

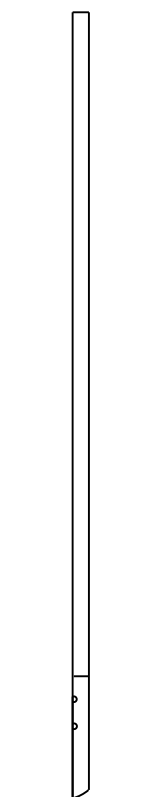
⑭ **REFLECTIVE SHEETING DETAILS**



ET-2000 AND SKT-350

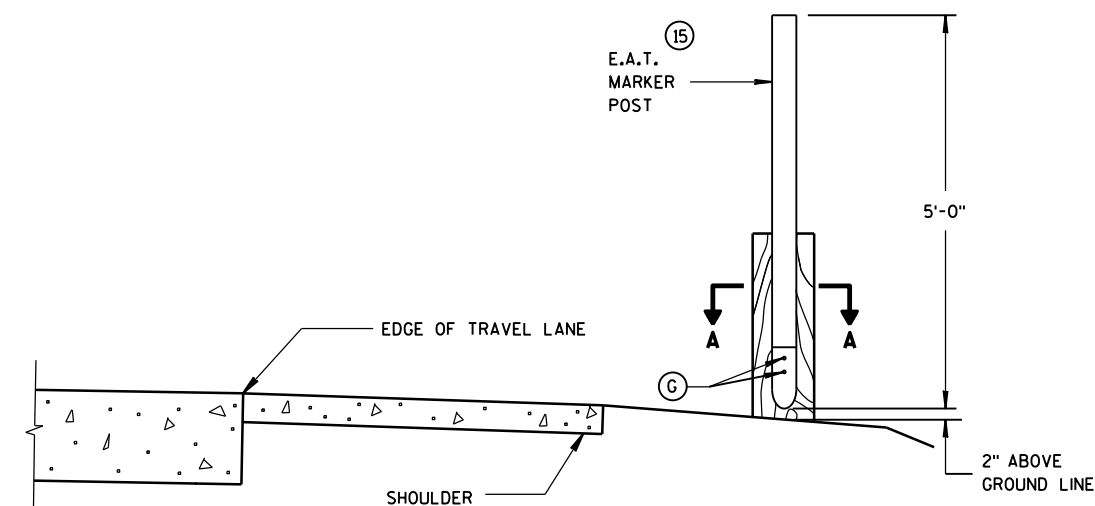


FRONT VIEW

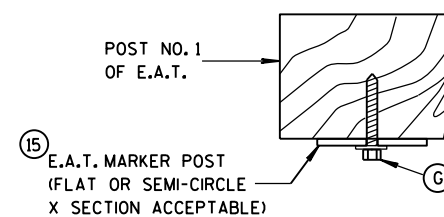


SIDE VIEW

⑮ **E.A.T. MARKER POST**



TYPICAL INSTALLATION OF E.A.T. MARKER POST BACKSIDE OF POST NO. 1
(E.A.T. AND RAIL REMOVED FOR CLARITY)



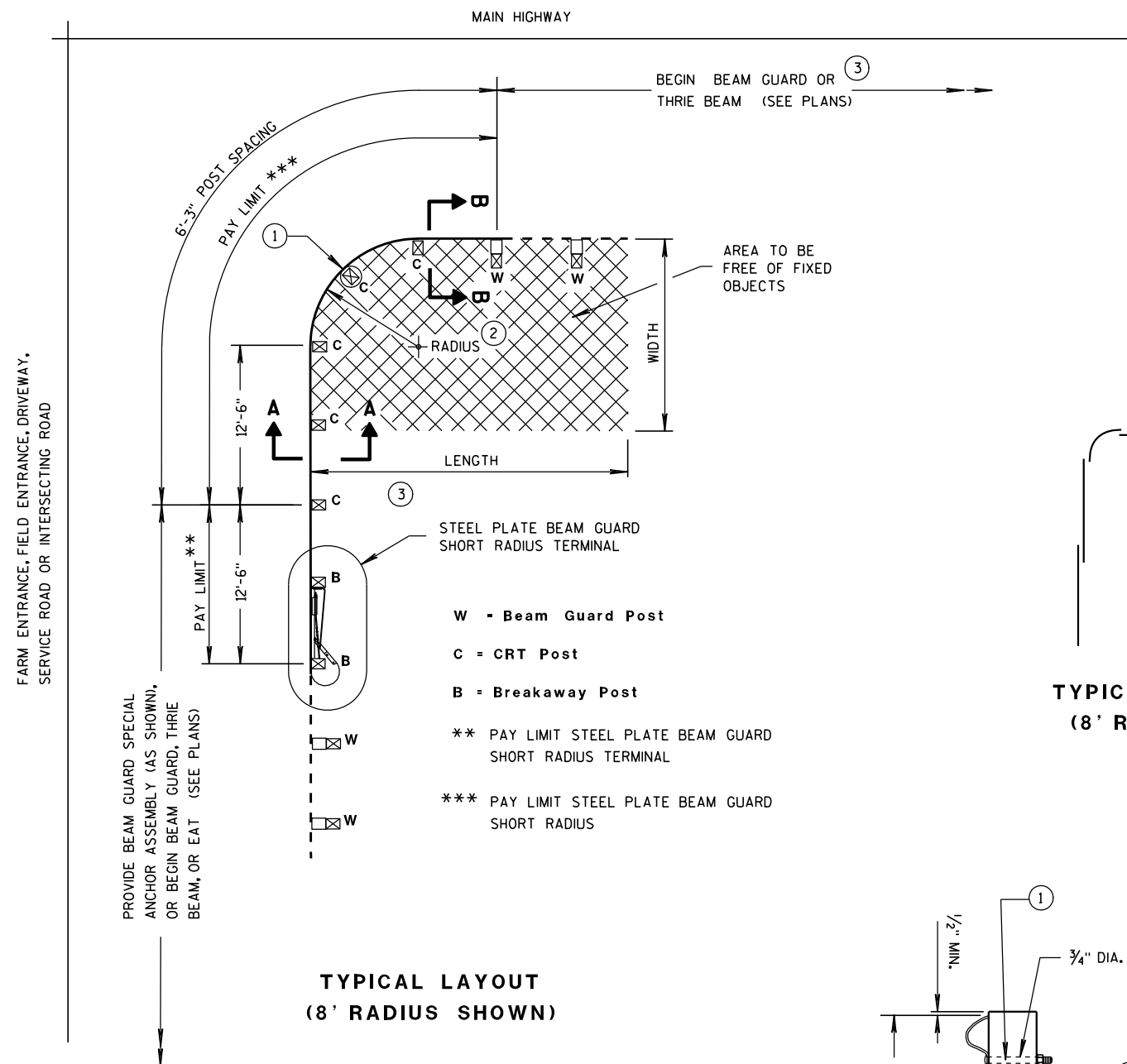
SECTION A-A

**STEEL PLATE BEAM GUARD
ENERGY ABSORBING TERMINAL**

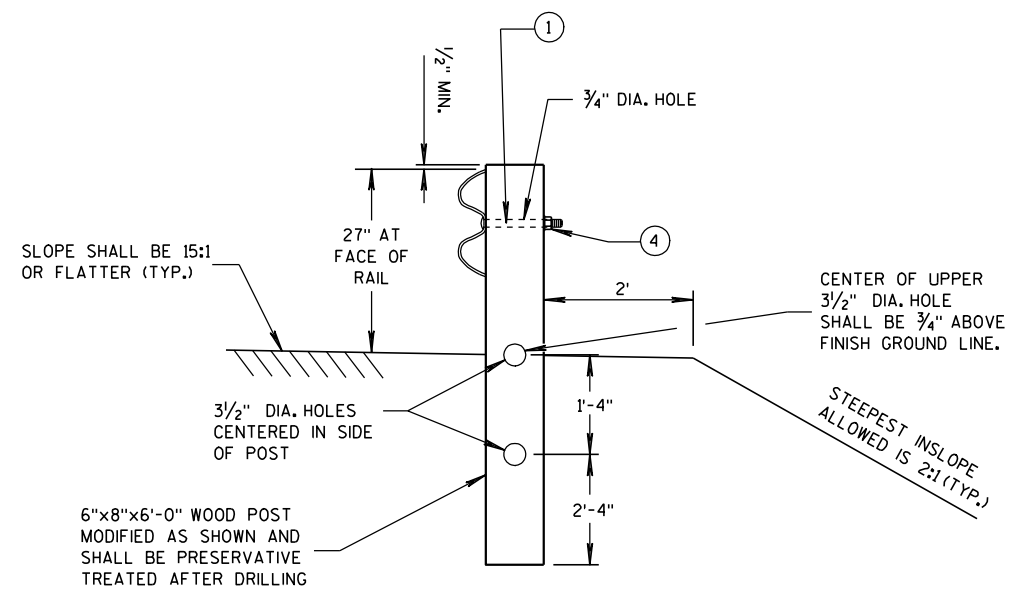
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2014
DATE
FHWA

/S/ Jerry H. Zogg
ROADWAY STANDARDS
ENGINEER



**TYPICAL LAYOUT
(8' RADIUS SHOWN)**



**SECTION A-A
(CRT POST)**

STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL

GENERAL NOTES

ALL ANGLES, CHANNELS, AND PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A36 AND THE STRUCTURAL TUBING SHALL CONFORM TO ASTM A 500. WELDING SHALL MEET THE CURRENT REQUIREMENTS OF THE AMERICAN WELDING SOCIETY STRUCTURAL WELDING CODE ANSI/AWS D1.1. ALL STRUCTURAL STEEL SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A 123. PUNCHING, DRILLING, CUTTING, OR WELDING WILL NOT BE PERMITTED AFTER GALVANIZING. FURNISH AND INSTALL HARDWARE PER STANDARD SPECIFICATION 614.2, UNLESS NOTED OTHERWISE.

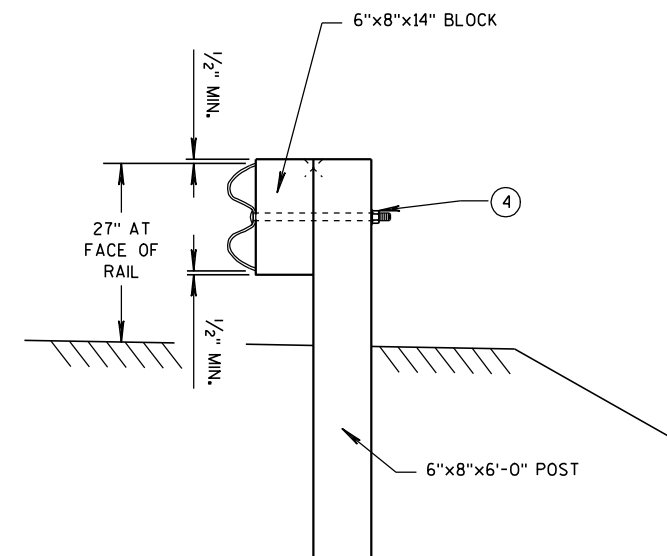
SHOP BEND CURVED RAIL SECTIONS.

SEE STANDARD DETAIL DRAWING 14 B 15 FOR OTHER DETAIL.

- ① ON THE 8 FOOT RADIUS INSTALLATION, DO NOT INSTALL BUTTON HEAD BOLT AT CENTER CRT POST.
- ② RADIUS FROM 8' - 36'. SEE PLAN.
- ③ HEIGHT TRANSITION MAY BE REQUIRED. SEE PLAN OR PROJECT ENGINEER.
- ④ 5/8" ϕ X 1'-6" BUTTON HEAD BOLT AND RECESS NUT WITH ROUND WASHER UNDER NUT.

RADIUS	NUMBER OF CRT POSTS	*NUMBER AND LENGTH OF CURVED RAILS	REQUIRED AREA FREE OF FIXED OBJECTS (LENGTH x WIDTH)
8'	5	1 at 12.5'	25' x 15'
16'	7	1 at 25'	30' x 15'
24'	9	1 at 25' and 1 at 12.5'	40' x 20'
32'	11	2 at 25'	50' x 20'

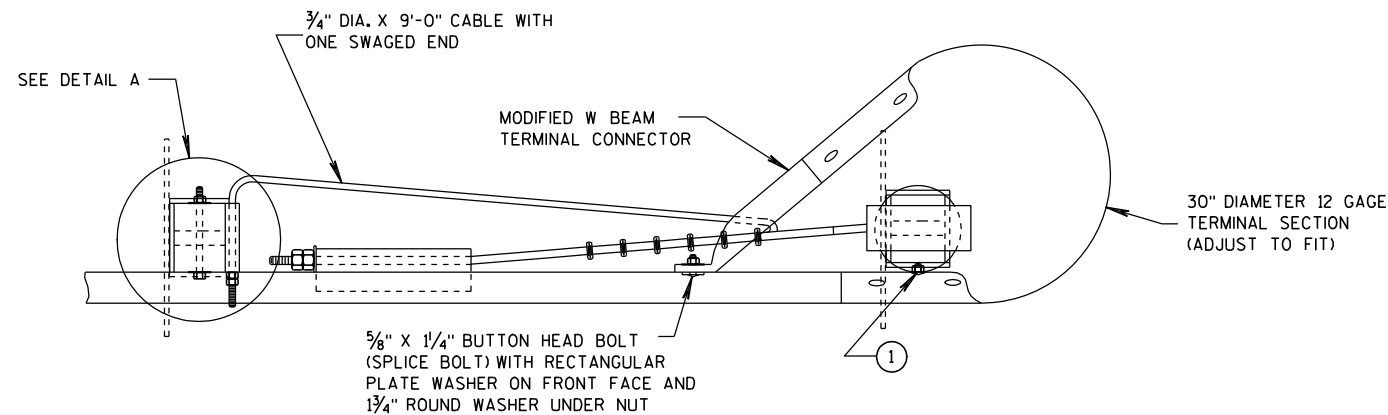
* THE NUMBER OF RAILS IS BASED ON A 90° INTERSECTION. SEE PLAN FOR NON 90° INSTALLATIONS.



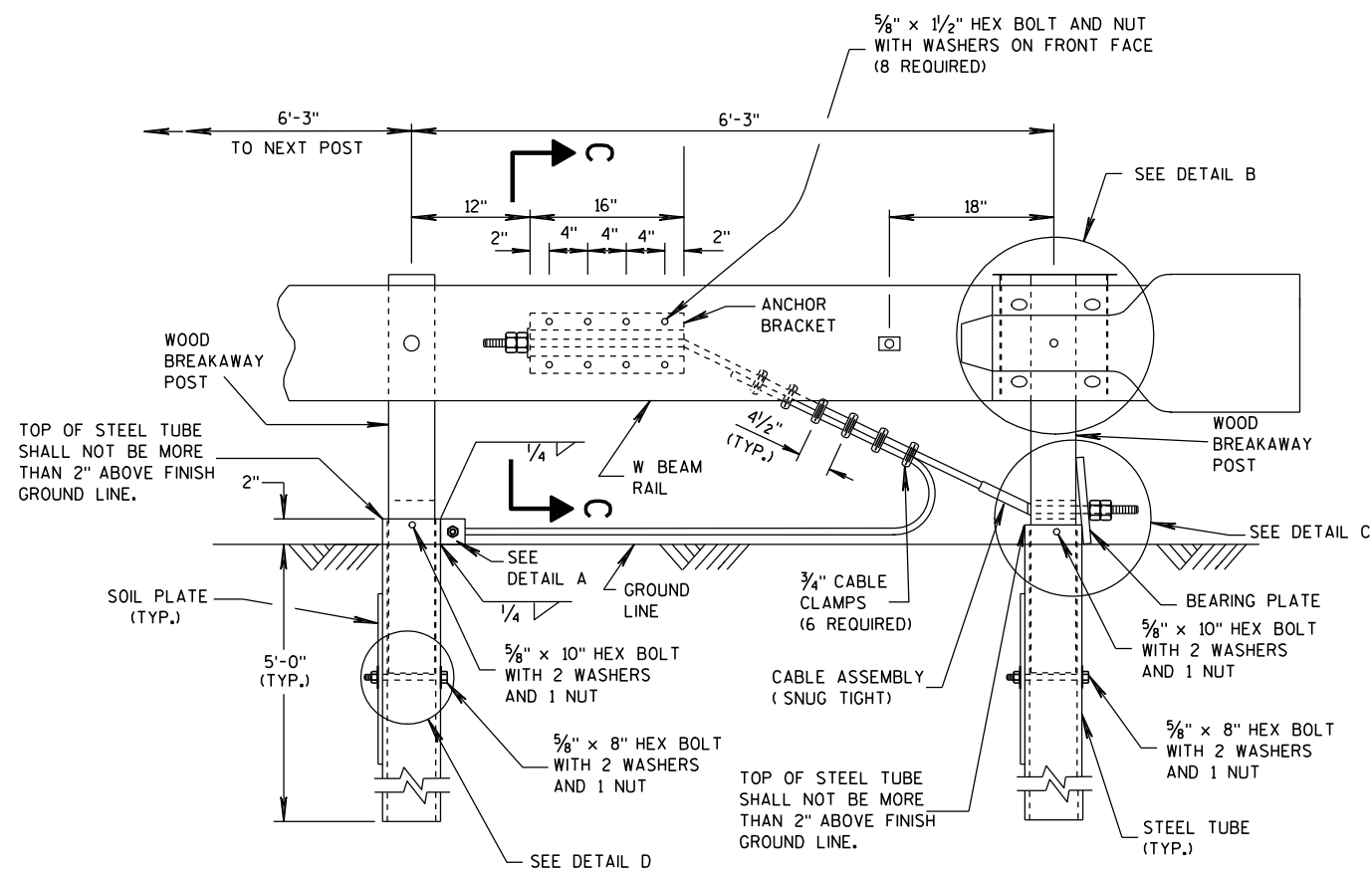
**SECTION B-B
(BEAM GUARD POST)**

**STEEL PLATE BEAM GUARD
SHORT RADIUS TERMINAL**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



PLAN VIEW

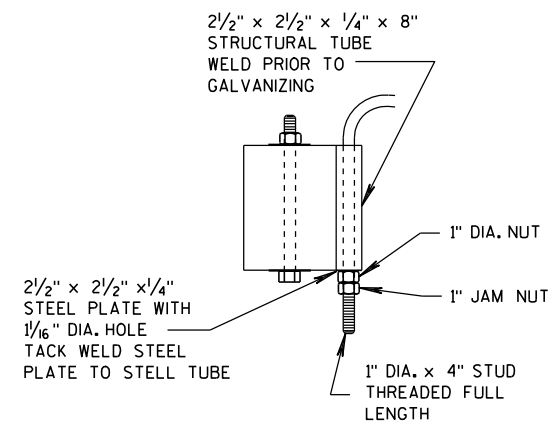


ELEVATION VIEW

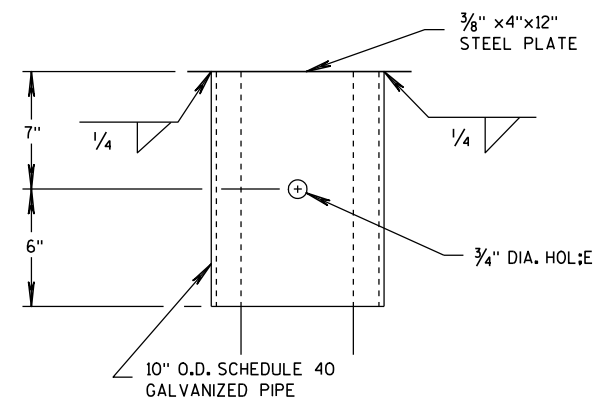
STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL

GENERAL NOTES

- ATTACH W BEAM RAIL TO THE STEEL PIPE WITH A 5/8" X 2" BUTTON HEAD BOLT WITH NO WASHER. CONNECTION TO THE POST IS NOT REQUIRED.
- INSTALL GALVANIZED 3/4" (6X19) PREFORMED WIRE OR INDEPENDENT WIRE ROPE CORE CONFORMING TO AASHTO M 30. MANUFACTURE WIRE ROPE OUT OF IMPROVED FLOW STEEL WITH A MINIMUM BREAKING STRENGTH OF 42,800 PSI.



DETAIL A



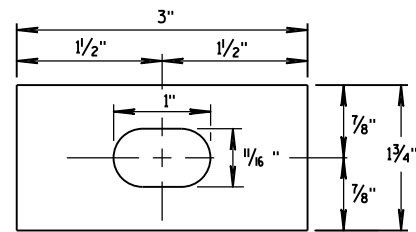
DETAIL B

(BEAM GUARD AND TERMINAL SECTION NOT SHOWN)

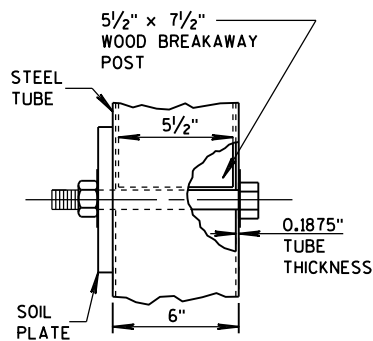
STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

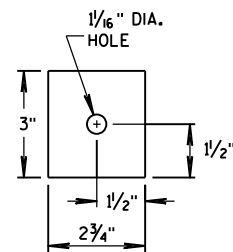
131



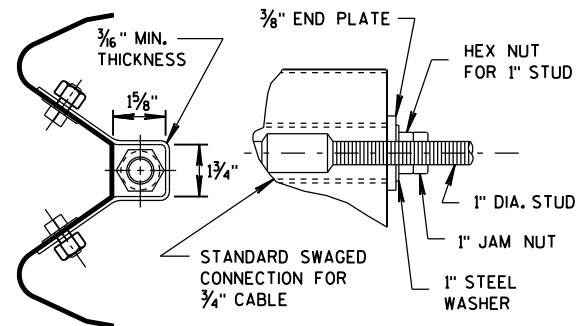
**RECTANGULAR
PLATE WASHER**



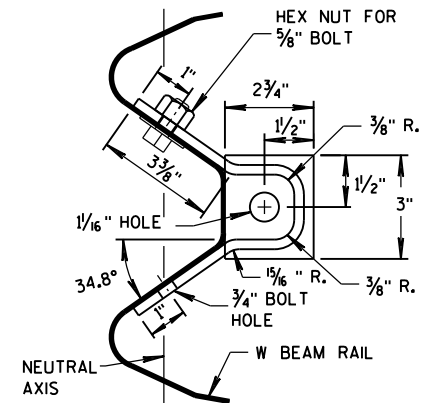
DETAIL D



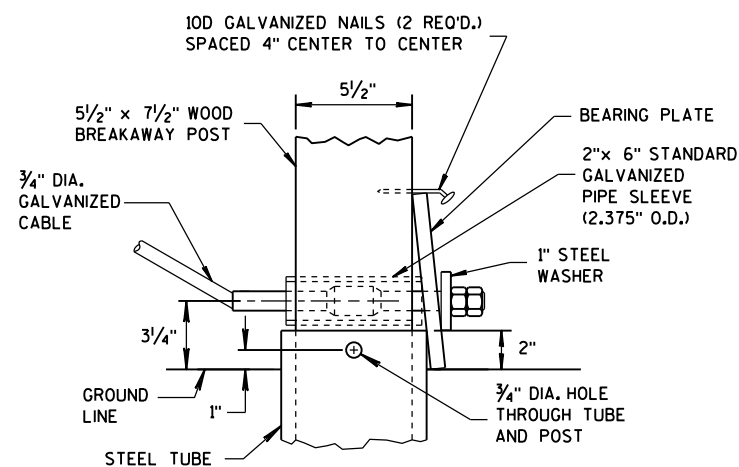
END PLATE



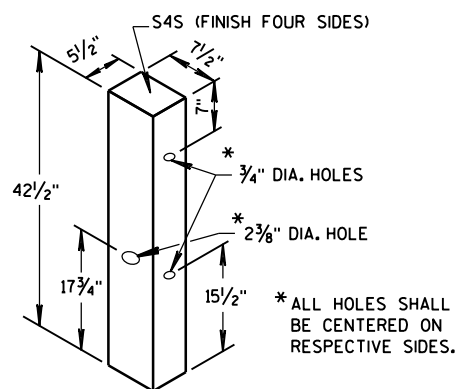
**SECTION C-C
(END PLATE REMOVED)**



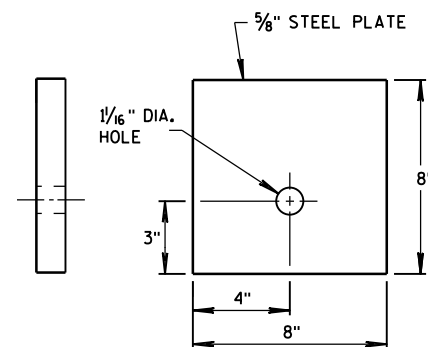
ANCHOR BRACKET



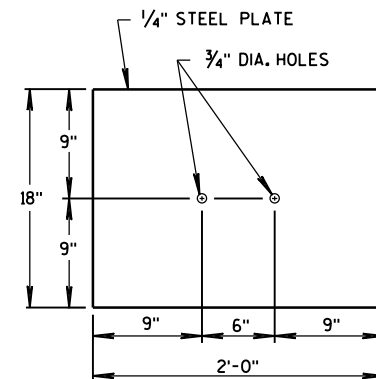
DETAIL C



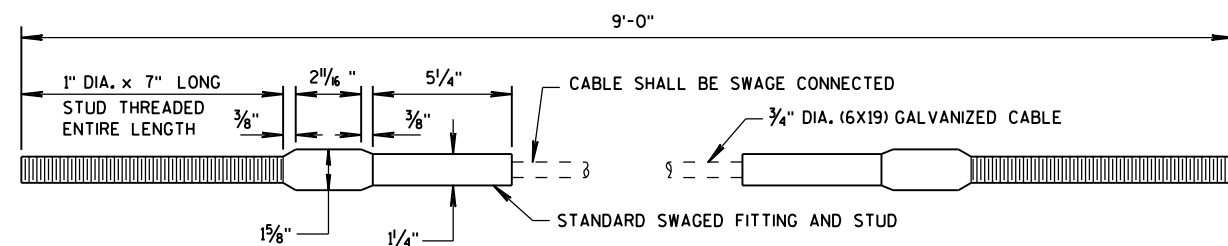
WOOD BREAKAWAY POST



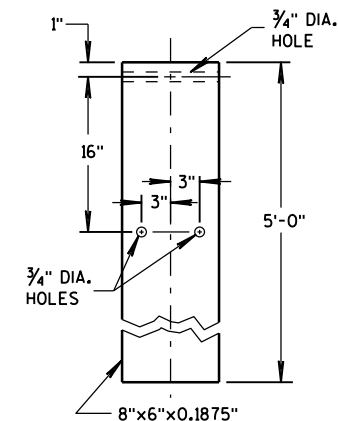
BEARING PLATE



SOIL PLATE



CABLE ASSEMBLY



STEEL TUBE

**STEEL PLATE BEAM GUARD
SHORT RADIUS TERMINAL**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

12/18/08

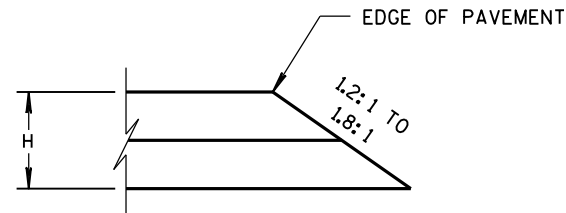
DATE

FHWA

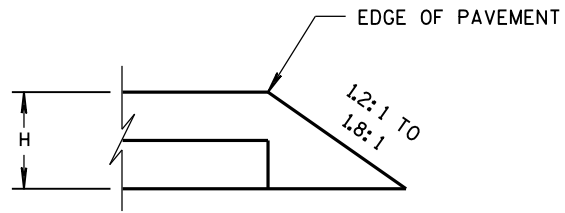
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

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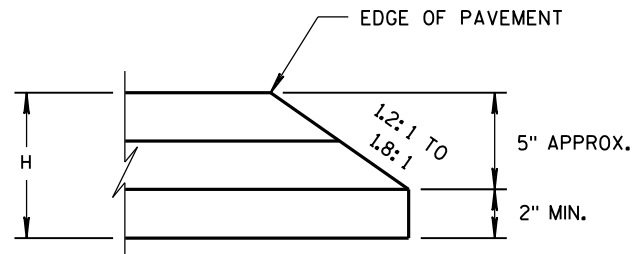
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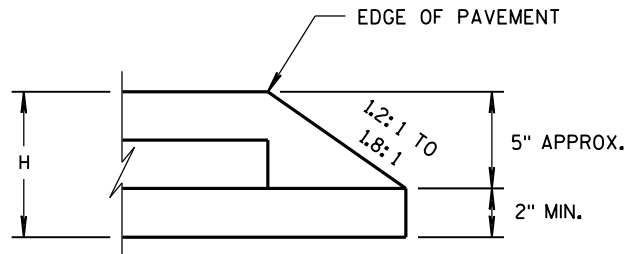
CONSTRUCTED WITH FINAL TWO LAYERS
FOR H 5" OR LESS



CONSTRUCTED WITH FINAL LAYER
FOR H 5" OR LESS

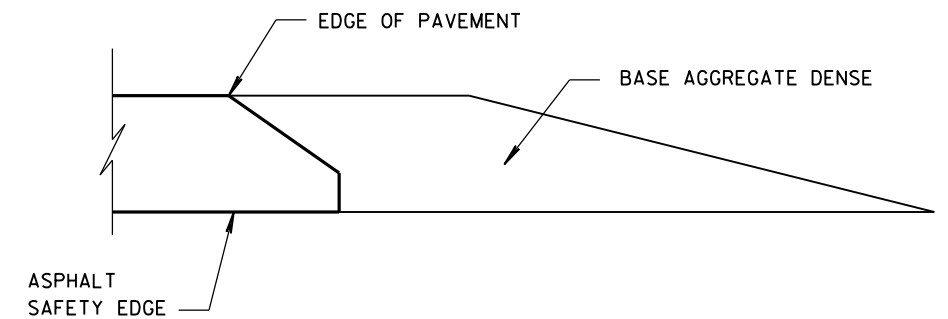


CONSTRUCTED WITH FINAL TWO LAYERS
FOR H GREATER THAN 5"



CONSTRUCTED WITH FINAL LAYER
FOR H GREATER THAN 5"

HMA PAVEMENT AND HMA OVERLAYS



FINISHED SHOULDER AGGREGATE PLACEMENT

SAFETY EDGE_{SM}

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

DATE 11/30/2012

FHWA

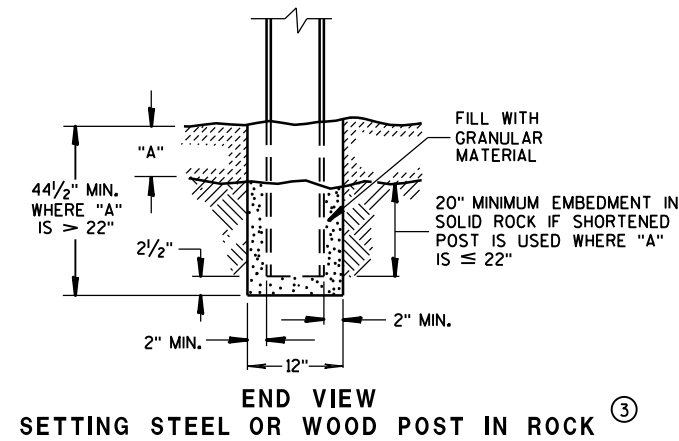
/s/ Jerry H. Zoga
ROADWAY STANDARDS ENGINEER 133 ENT

6

- S.D.D. 14 B 42-3a**

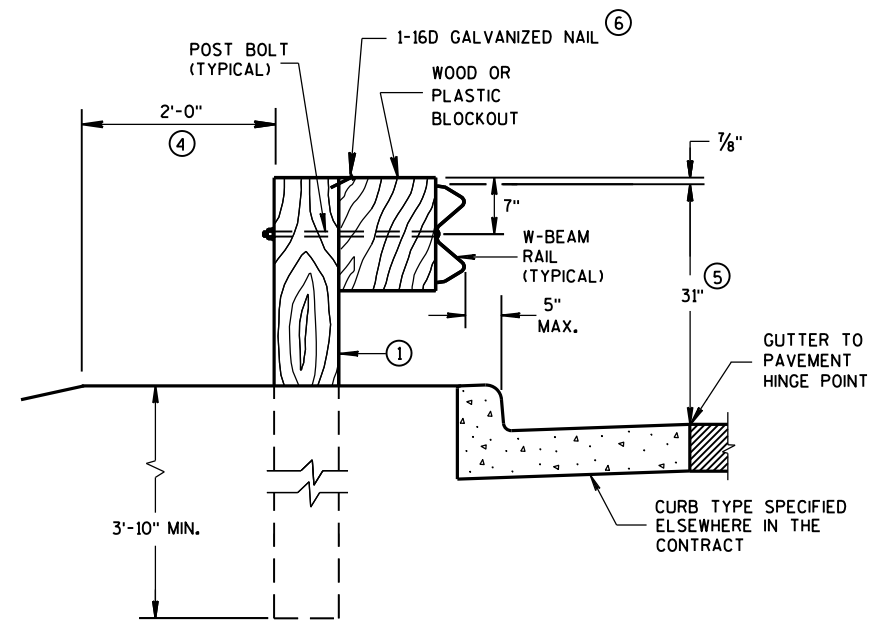


S.D.D. 14 B 42-3a



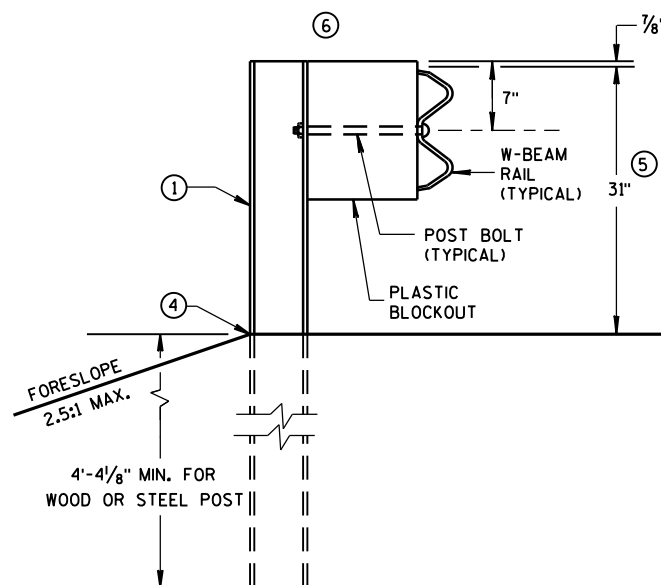
END VIEW

SETTING STEEL OR WOOD POST IN ROCK ③

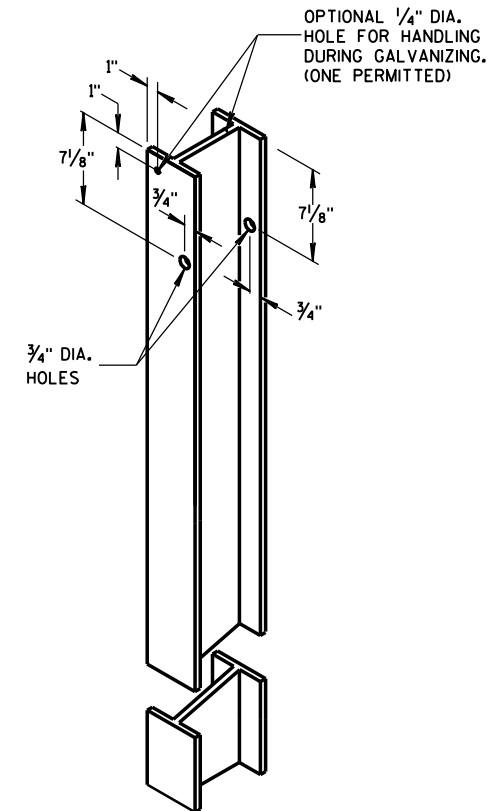


Technical drawing showing a cross-section of a gutter installation detail. The drawing includes the following components and dimensions:

- POST BOLT (TYPICAL)**: Indicated by a callout pointing to a bolt through the curb.
- 1-16D GALVANIZED NAIL**: Indicated by a callout pointing to a nail securing the wood or plastic blockout.
- WOOD OR PLASTIC BLOCKOUT**: A rectangular component used for securing the gutter.
- W-BEAM RAIL (TYPICAL)**: The gutter component, shown with a cross-section.
- 5" MAX.**: Dimension indicating the maximum width of the gutter.
- 7"**: Dimension indicating the height of the gutter.
- 31"**: Dimension indicating the height of the curb.
- 7/8"**: Dimension indicating the thickness of the gutter flange.
- 2'-0"**: Dimension indicating the length of the post bolt.
- 3'-10" MIN.**: Dimension indicating the minimum height of the curb.
- GUTTER TO PAVEMENT HINGE POINT**: Label indicating the connection point between the gutter and the pavement.
- CURB TYPE SPECIFIED ELSEWHERE IN THE CONTRACT**: Label indicating the curb type.



Technical drawing of a post-and-rail fence cross-section. The drawing shows a vertical post (1) with a plastic blockout (4) at its base. A W-beam rail (5) is attached to the post with a post bolt (6). The rail is 7 inches high and 31 inches wide. The top of the rail is 7/8 inch thick. The post is 4'-4 1/8 inches high for wood or steel. The foreslope is 2.5:1 maximum.



Technical drawing of a vertical metal component, likely a door or panel, showing dimensions and optional features:

- Overall height: $7\frac{1}{8}"$
- Top section height: $1"$
- Top section width: $1"$
- Top section thickness: $\frac{3}{4}"$
- Bottom section height: $7\frac{1}{8}"$
- Bottom section width: $\frac{3}{4}"$
- Bottom section thickness: $\frac{3}{4}"$
- Optional feature: $\frac{1}{4}"$ DIA. HOLE FOR HANDLING DURING GALVANIZING. (ONE PERMITTED)
- Other dimensions: $\frac{3}{4}"$ DIA. HOLES

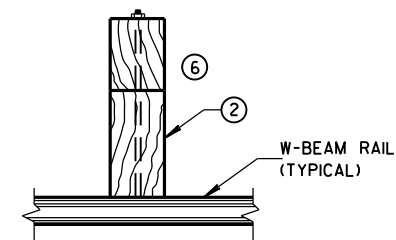


Diagram illustrating a vertical post and rail fence section. A vertical post (6) is shown with a horizontal rail (2) attached to it. The rail is labeled "W-BEAM RAIL (TYPICAL)".

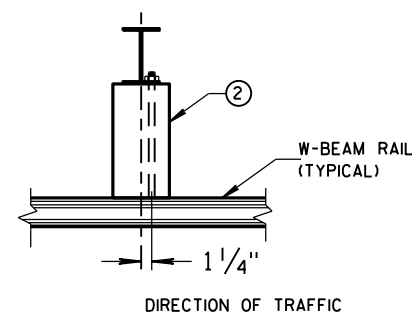
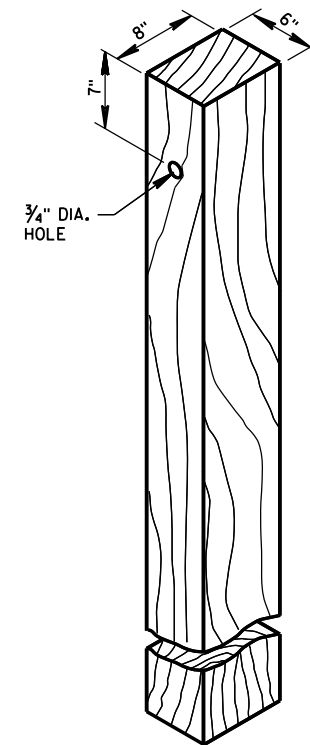


Diagram illustrating a W-BEAM RAIL (TYPICAL) with a vertical post. The dimension $1 \frac{1}{4}$ " is indicated between the centerline of the rail and the centerline of the post. The direction of traffic is indicated by an arrow pointing to the right.



Technical drawing of a wooden post. The post is rectangular with a width of 6" and a height of 7". The top surface is labeled 8". A hole is drilled through the post, labeled $\frac{3}{4}$ " DIA. HOLE.

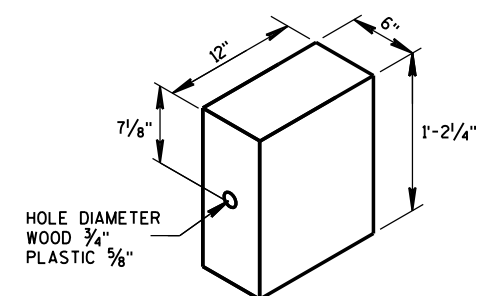
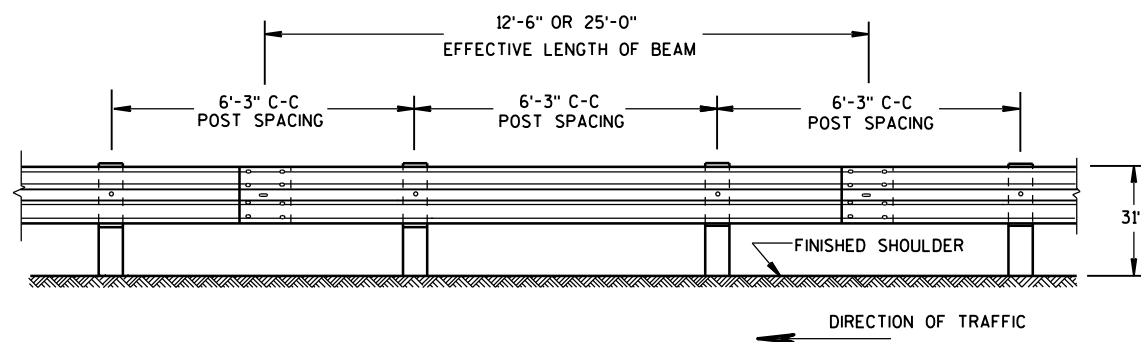
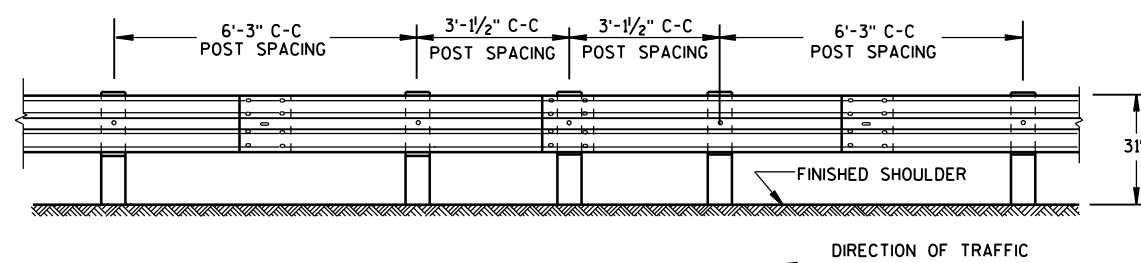


Diagram of a rectangular box with dimensions: length 12", width 6", and height 1'-2 1/4". A hole is shown on the front face with dimensions: wood 3/4" and plastic 5/8".



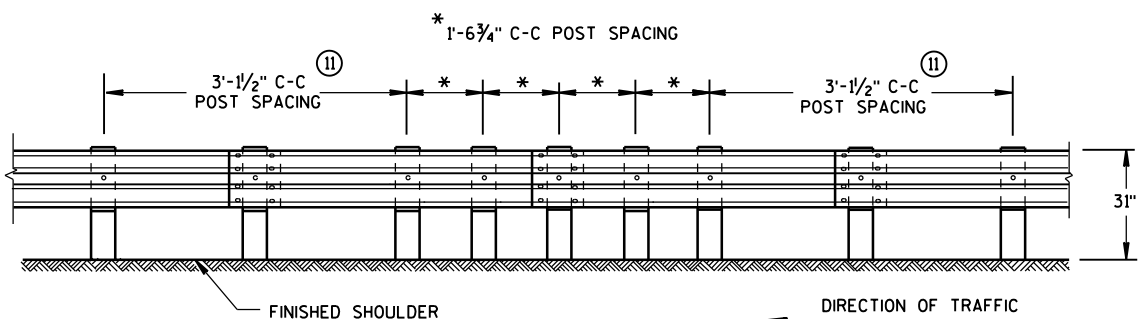
FRONT VIEW

POST SPACING STANDARD INSTALLATION



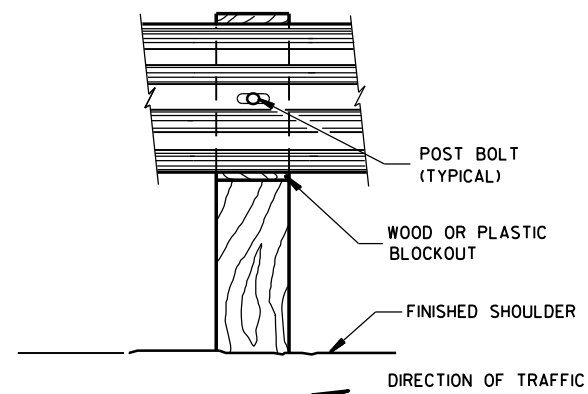
FRONT VIEW

HALF POST SPACING (HS) AND
HALF POST SPACING WITH LONGER POSTS (K)

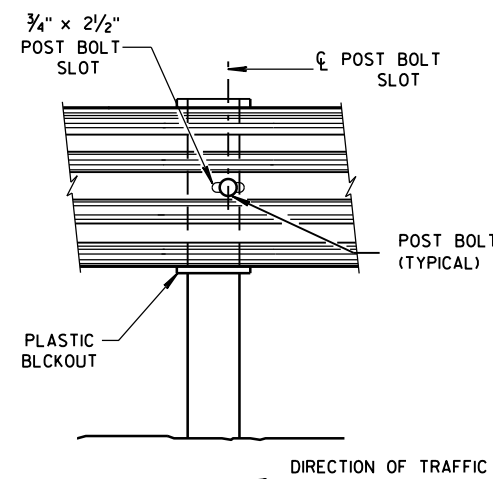


FRONT VIEW

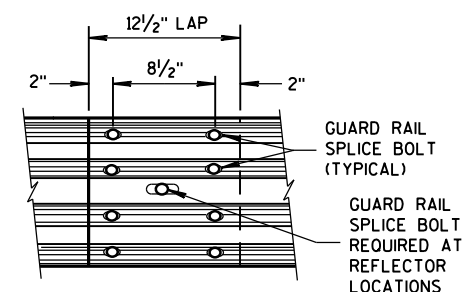
QUARTER POST SPACING (QS)



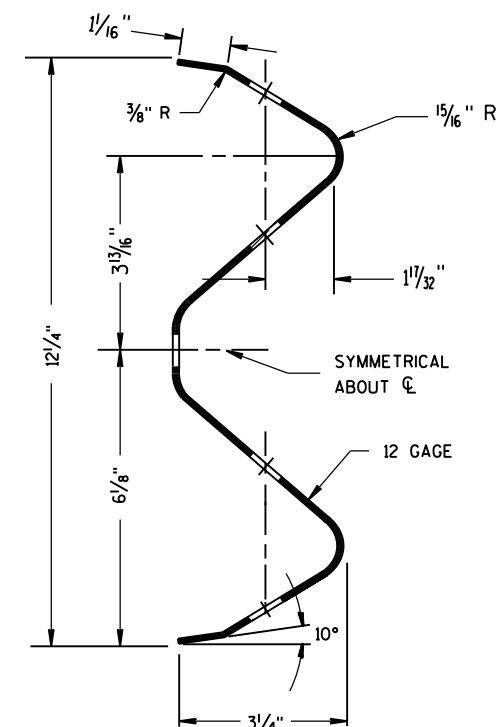
FRONT VIEW AT WOOD POST



FRONT VIEW AT STEEL POST



FRONT VIEW
MID-SPAN BEAM SPLICE

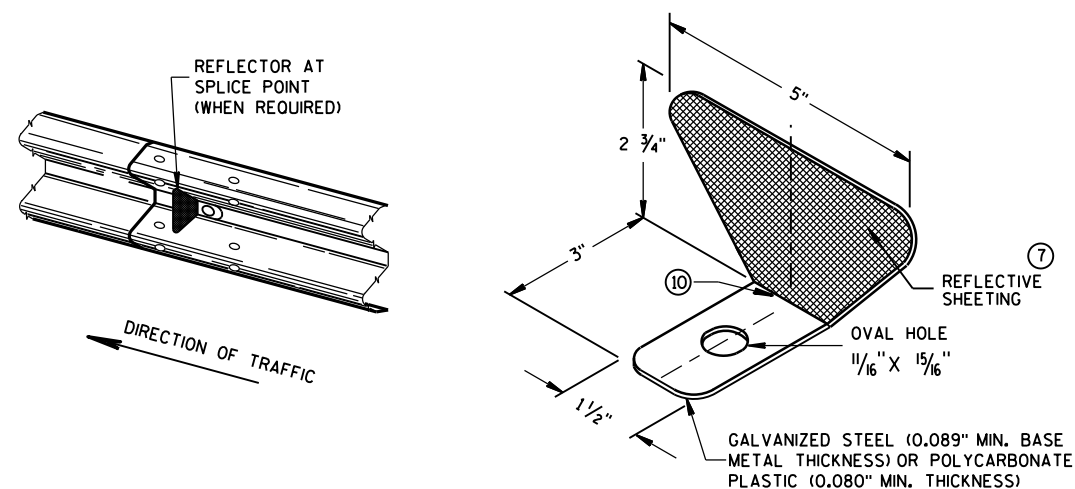


SECTION THRU W-BEAM RAIL

REFLECTOR SPACING ^⑧				
	BEAM GUARD LENGTH	REFLECTOR SPACING	NO. SURFACES REFLECTORIZED	MIN. NO. REFLECTOR
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 1 ^⑨	6
TWO WAY TRAFFIC	< 200' > 200'	50' C-C 100' C-C	2 2 ^⑩	3

**MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION 135



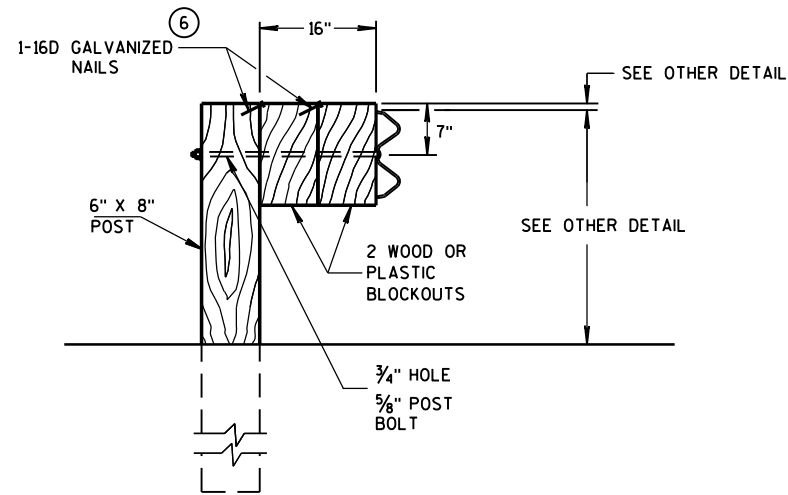
ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION

GENERAL NOTES

- ⑦ PROVIDE SILVER REFLECTIVE SHEETING ON ALL REFLECTORS EXCEPT THOSE LOCATED ALONG THE LEFT EDGE OF ONE-WAY ROADWAYS, WHICH SHALL BE PROVIDED WITH YELLOW REFLECTIVE SHEETING. SHEETING IS TYPE H. SEE STANDARD SPECIFICATION 637.
- ⑧ DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL. RAIL SPLICE LOCATIONS ARE THE ONLY ACCEPTABLE LOCATIONS FOR REFLECTORS.
- ⑨ REVERSE EVERY OTHER REFLECTOR FOR 2-WAY VISIBILITY. THE CONTRACTOR MAY FURNISH TWO-SIDED REFLECTORS IN LIEU OF ONE-SIDED REFLECTORS.
- ⑩ PROVIDE AN ANGLE OF BEND OF $90^\circ \pm 1^\circ$ FOR TWO-SIDED REFLECTORS.
- ⑪ 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.

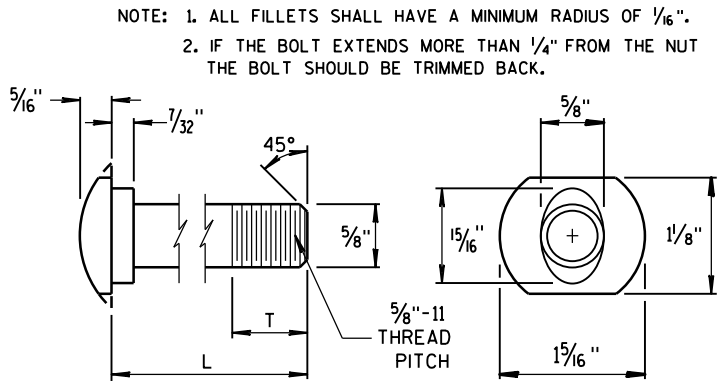
POST BOLTS ARE A 3/8" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT REQUIRES 3/8" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND 3/8" DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS ARE BEING USED.

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.

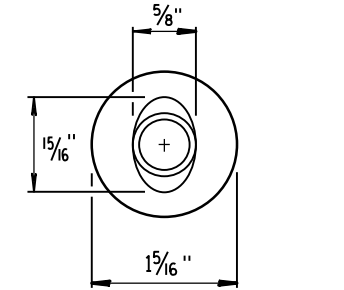


DETAIL FOR 16" BLOCKOUT DEPTH

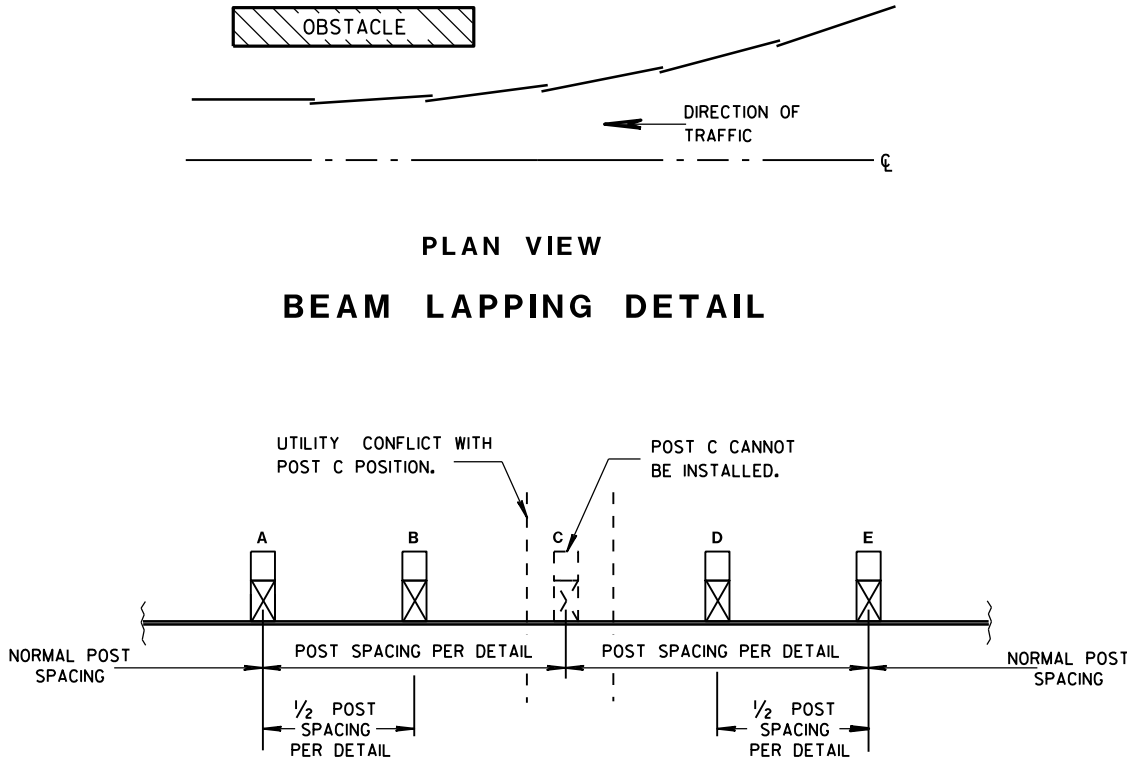
IT IS ACCEPTABLE TO USE BLOCKOUTS UP TO 16" DEEP TO INCREASE THE POST OFFSET TO AVOID UNDERGROUND OBSTACLES. THERE IS NO LIMIT TO THE NUMBER OF POSTS THAT CAN HAVE ADDITIONAL BLOCKOUTS UP TO 16" DEEP.



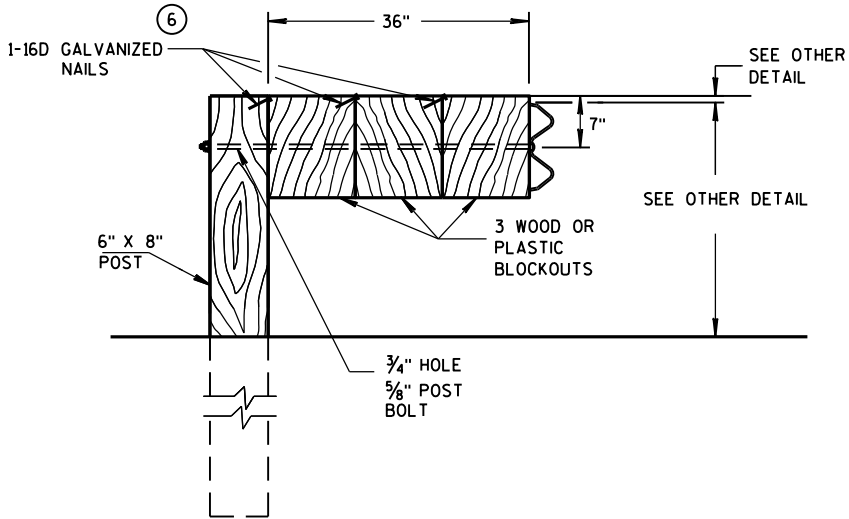
POST BOLT TABLE



ALTERNATE BOLT HEAD



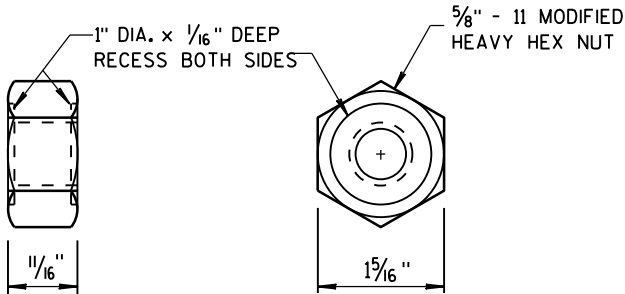
POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION



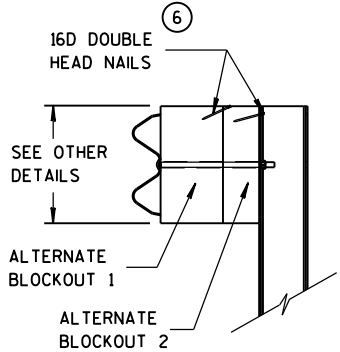
DETAIL FOR 36" BLOCKOUT DEPTH

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.

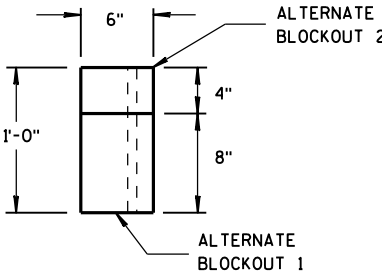
DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.



POST BOLT AND RECESS NUT



SIDE VIEW



TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2014
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS (136) INT
ENGINEER

GENERAL NOTES

- (A) THE SLOPE IN THE AREA BOUNDED BY THE GRADELINE, THE HINGE POINT LINE (HPL), AND THE CLEAR ZONE LIMITS (CZL) SHALL BE 4:1 OR FLATTER.
- (B) AFTER FINAL ASSEMBLY, RECHECK CABLE TO BE SURE IT IS TAUT AND HAS NOT RELAXED.
- (C) DIFFERENT MANUFACTURES REQUIRE DIFFERENT PERFORATED W-BEAM RAIL END PANELS. SEE MANUFACTURES INFORMATION.
- (D) THE TOP OF THE STEEL TUBE ON POST 1 AND POST 2 SHALL NOT BE MORE THAN 3" ABOVE THE FINISH GROUND ELEVATION.
- (E) ATTACH ALUMINUM SHEET TO E.A.T. HEAD USING 4 STAINLESS STEEL SELF-TAPPING SCREWS, ONE SCREW PER CORNER.
- (G) 1/2" DIAMETER X 3" LONG LAG BOLT AND WASHER.
- (H) HARDWARE VARIES BETWEEN DIFFERENT MANUFACTURES. SEE MANUFACTURE'S DRAWING FOR INFORMATION.
- (I) DIMENSIONS MAY VARY. SEE MANUFACTURE'S INFORMATION.

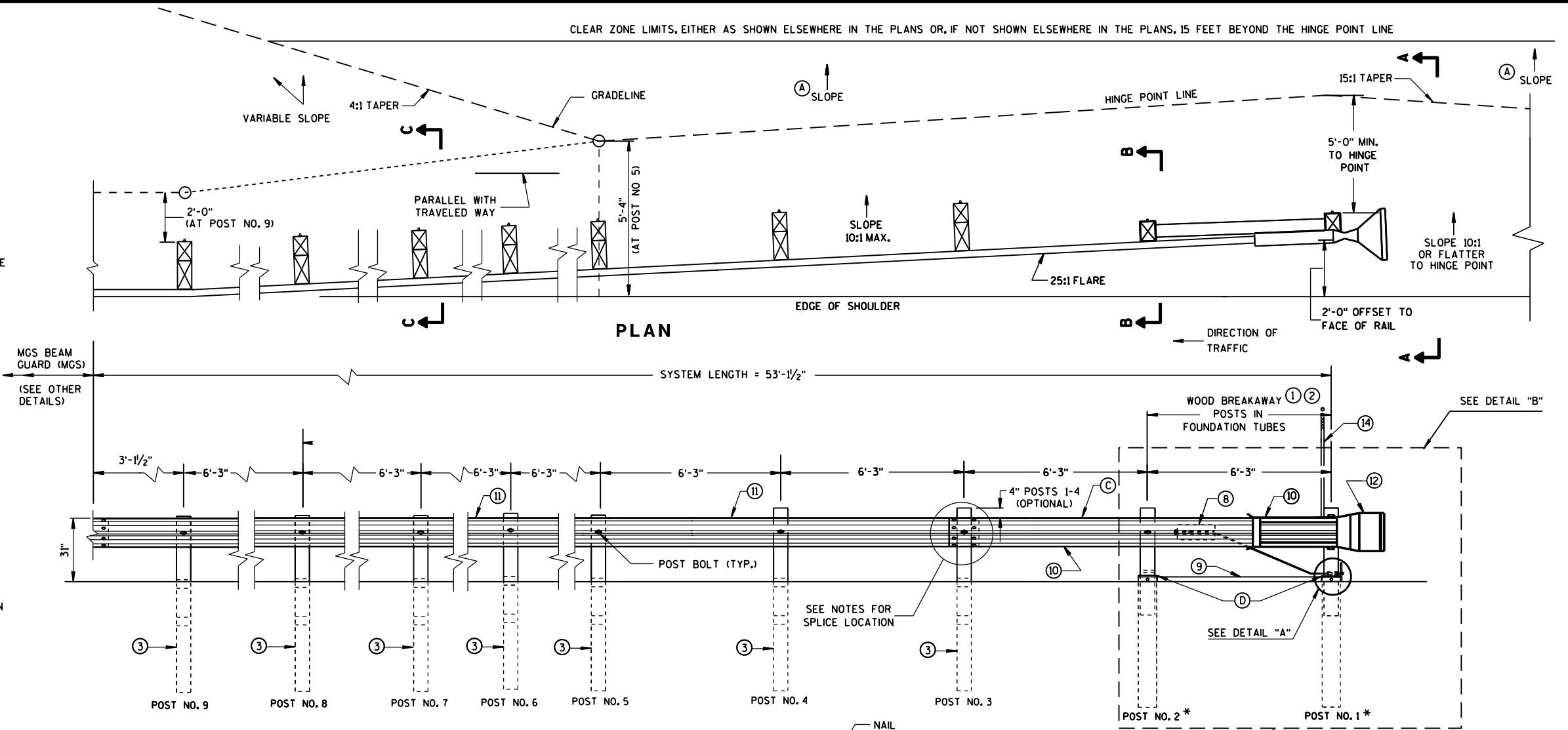
SEE SDD 14B42 FOR MORE INFORMATION.

* DO NOT ATTACH BLOCKOUTS TO POSTS 1 AND 2.

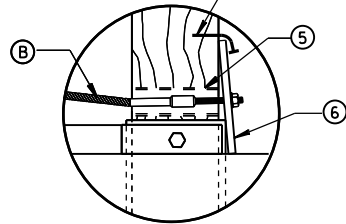
DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

W-BEAM RAIL SPLICES ARE LOCATED AT POST NUMBER 3, AND BETWEEN POST 5 AND 6, BETWEEN POSTS 7 AND 8, AND MIDDLE OF THE SPAN AFTER POST 9.

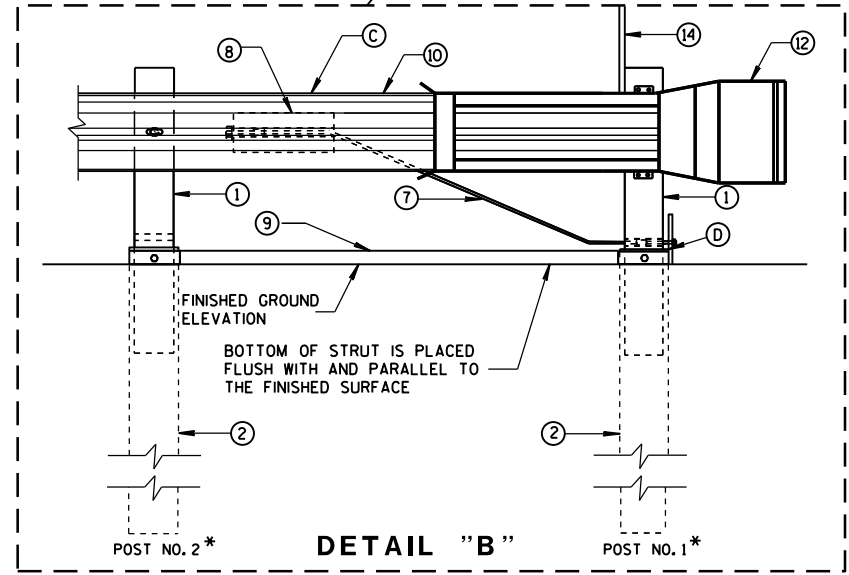
THE CENTER OF THE UPPER 3/2" DIAMETER HOLE ON POST NUMBER 3 THROUGH POST 9 IS TO BE FLUSH WITH THE GROUND LINE UP TO A MAXIMUM OF 2" ABOVE GROUND LINE.



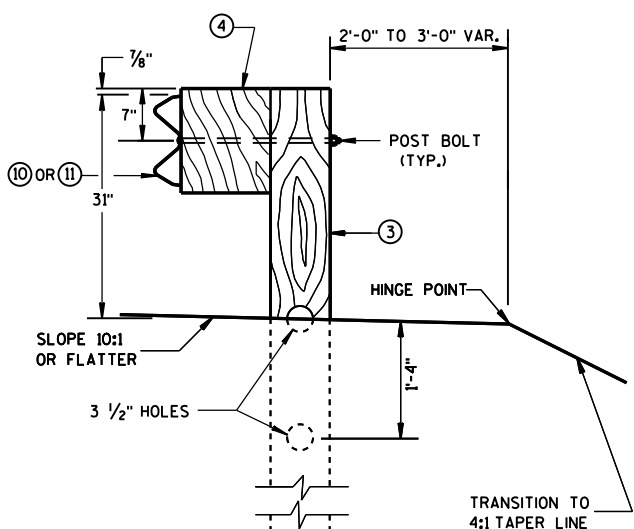
ELEVATION



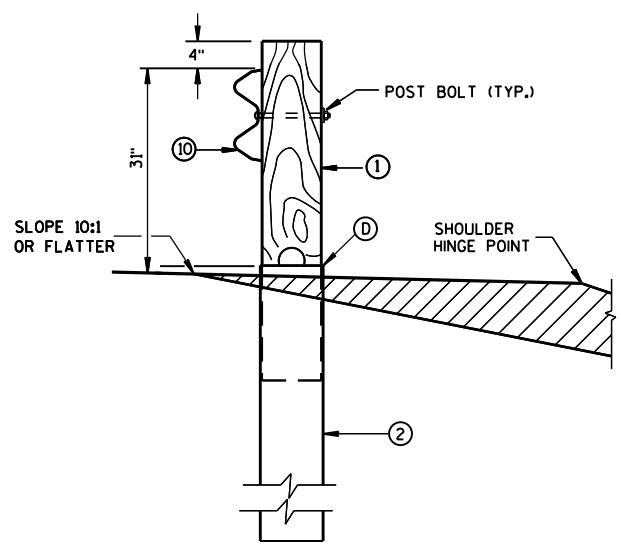
DETAIL "A"



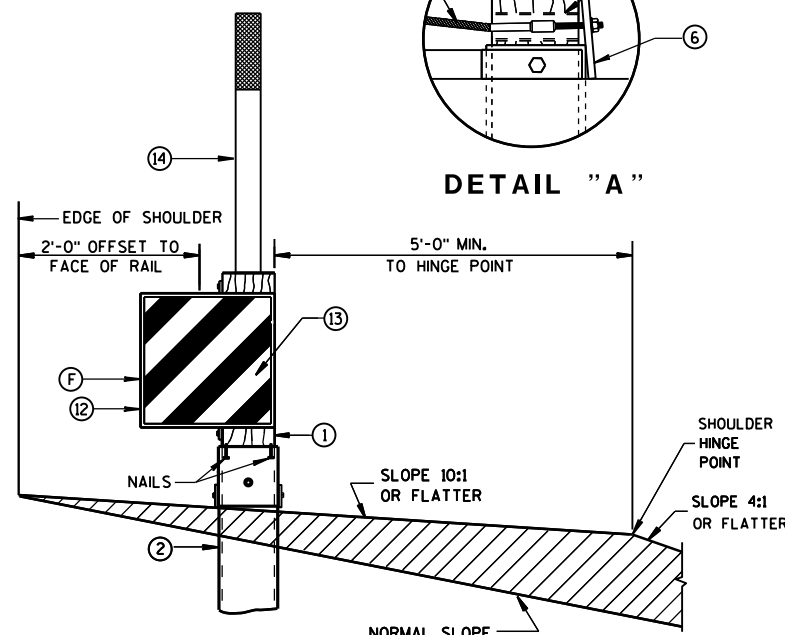
DETAIL "B"



SECTION C-C
TYPICAL AT POST NOS. 3-9



SECTION B-B
TYPICAL AT POST NO. 2*

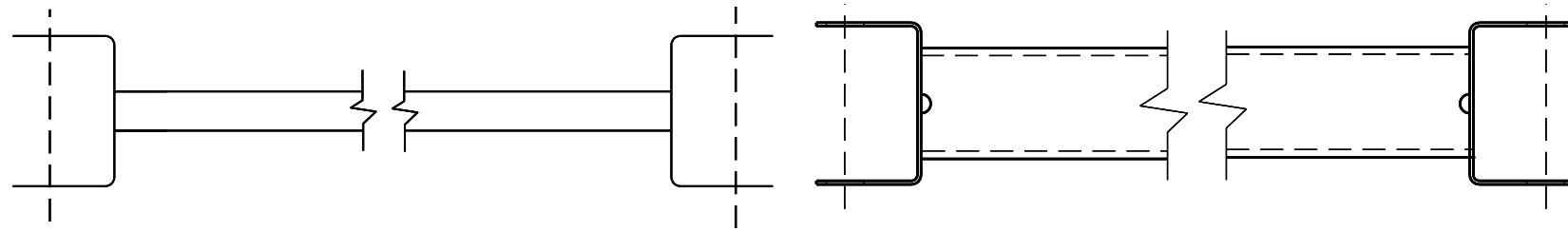


SECTION A-A
TYPICAL AT POST NO. 1*

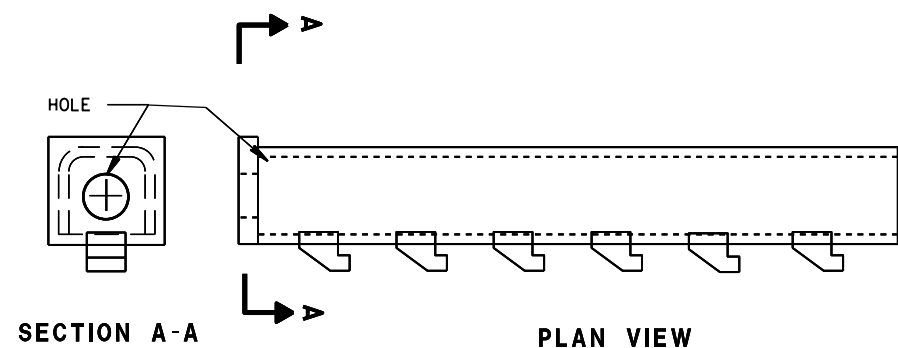
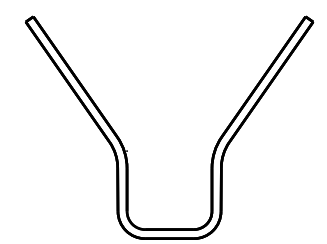
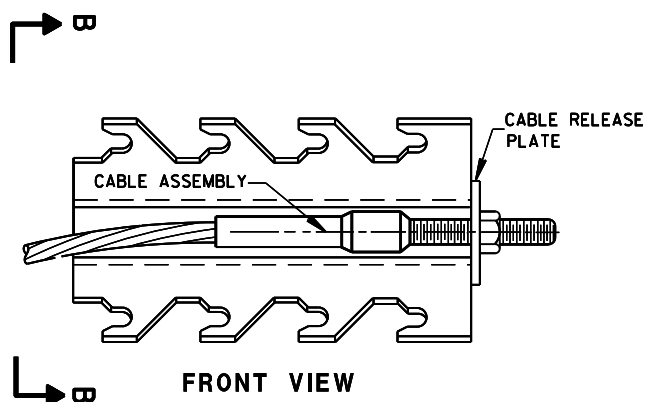
MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

137



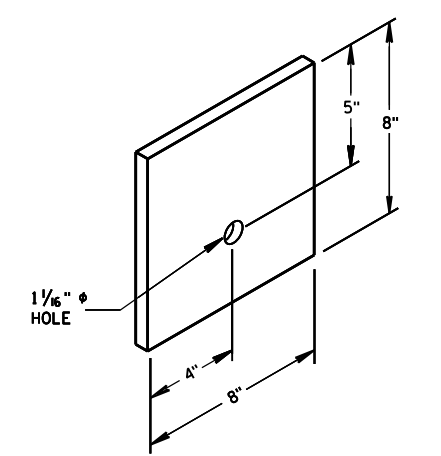
9 H
GENERIC GROUND STRUT



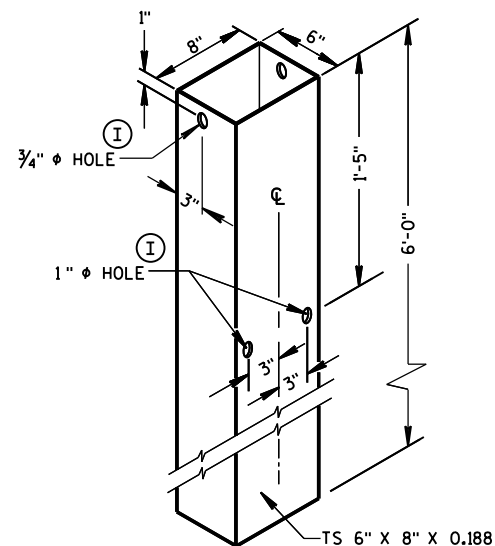
8 H
GENERIC ANCHOR CABLE BOX

BILL OF MATERIALS

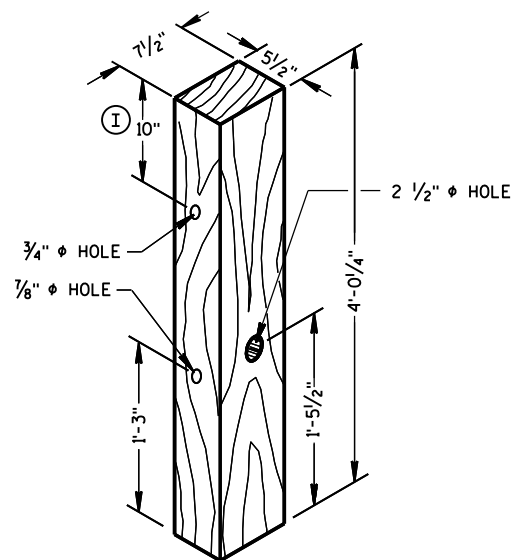
PART NO.	DESCRIPTION
MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUFACTURER'S DETAILS FOR MORE INFORMATION.	
①	WOOD BREAKAWAY POST
②	6" X 8" X 0.188", 6'-0" LONG FOUNDATION TUBE AT POSTS 1 AND 2
③	WOOD CRT
④	WOOD BLOCKOUT
⑤	PIPE SLEEVE
⑥	BEARING PLATE
⑦	BCT CABLE ASSEMBLY
⑧	ANCHOR CABLE BOX
⑨	GROUND STRUT
⑩	PERFORATED W-BEAM RAIL END PANEL, 12'-6" LONG.
⑪	STANDARD W-BEAM RAIL. MULTIPLE SECTIONS REQUIRED. SECTIONS VARY IN LENGTH.
⑫	END SECTION EAT
⑬	0.040" ALUMINUM SHEET WITH REFLECTIVE SHEETING TYPE F PER SECTION 637 OF THE STANDARD SPECIFICATIONS
⑭	EAT MARKER POST - YELLOW (SEE APPROVED PRODUCTS LIST)



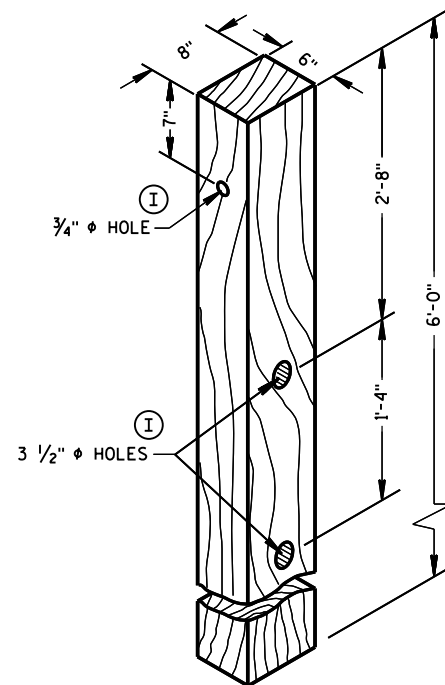
⑥
BEARING PLATE



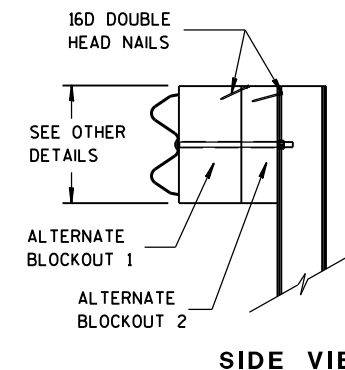
FOUNDATION TUBE ②



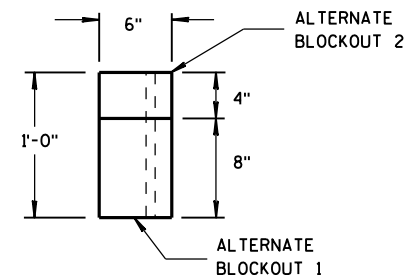
POSTS NUMBER 1 AND 2
WOOD BREAKAWAY POST ①



POSTS NUMBER 3-9
WOOD CRT POST ③

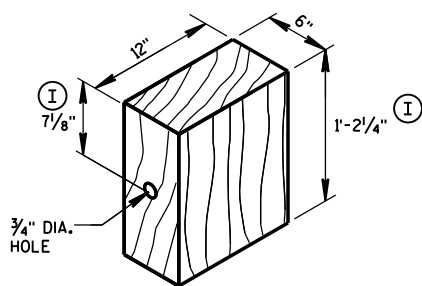


SIDE VIEW



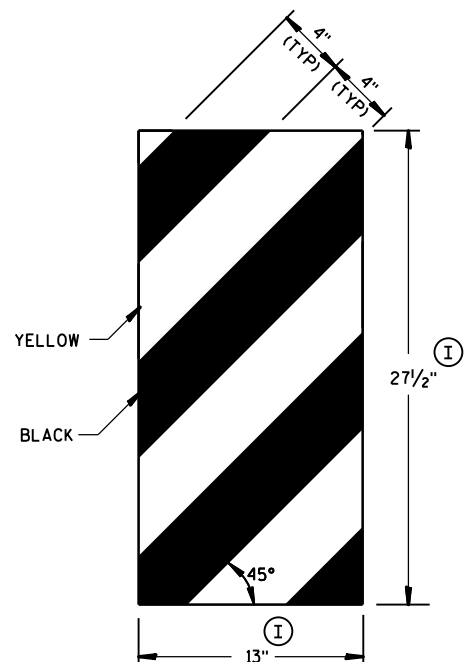
TOP VIEW

ALTERNATE WOOD
BLOCKOUT DETAIL

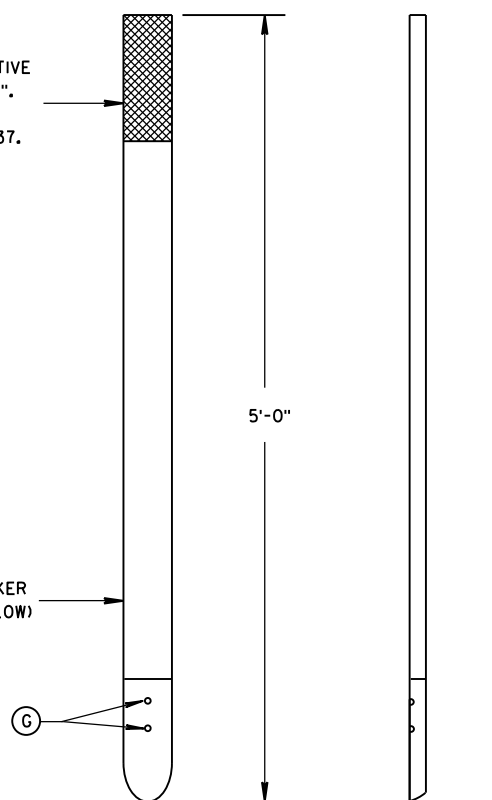
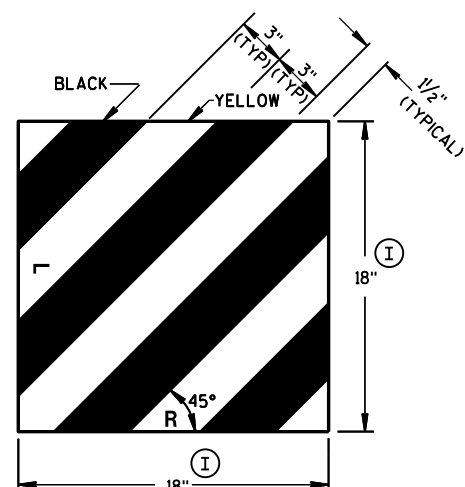


WOOD BLOCKOUT ④
REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2

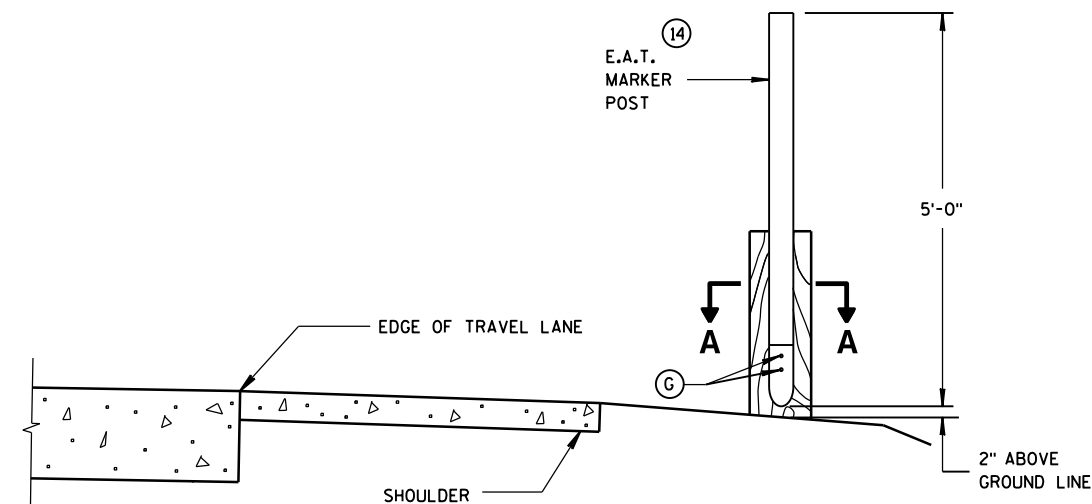
TYPE H
YELLOW REFLECTIVE
SHEETING 3" X 9".
SEE STANDARD
SPECIFICATION 637.



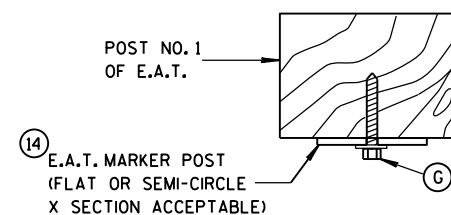
GENERIC REFLECTIVE SHEETING ⑬ ①



FRONT VIEW
SIDE VIEW
E.A.T. MARKER POST ⑭



TYPICAL INSTALLATION OF E.A.T.
MARKER POST BACKSIDE OF POST NO. 1
(E.A.T. AND RAIL REMOVED FOR CLARITY)

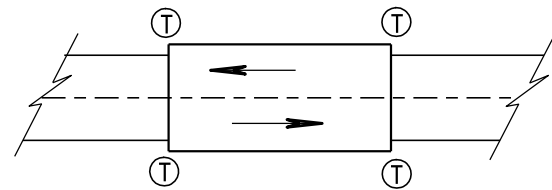


SECTION A-A

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

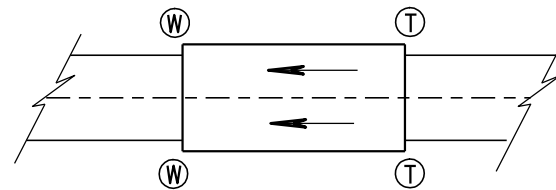
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2014 /S/ Jerry H. Zogg
DATE ROADWAY STANDARDS 139 ENT
FHWA ENGINEER



TWO WAY TRAFFIC

Ⓣ THRIE BEAM CONNECTION



ONE WAY TRAFFIC

Ⓦ W-BEAM CONNECTION WHEN REQUIRED

GENERAL NOTES

BOLT THE THRIE BEAM TO ALL POSTS AND BLOCKOUTS. DRILL OR PUNCH BOLT HOLES IN THE BEAM IF THE POST SPACING IS LESS THAN 6'-3".

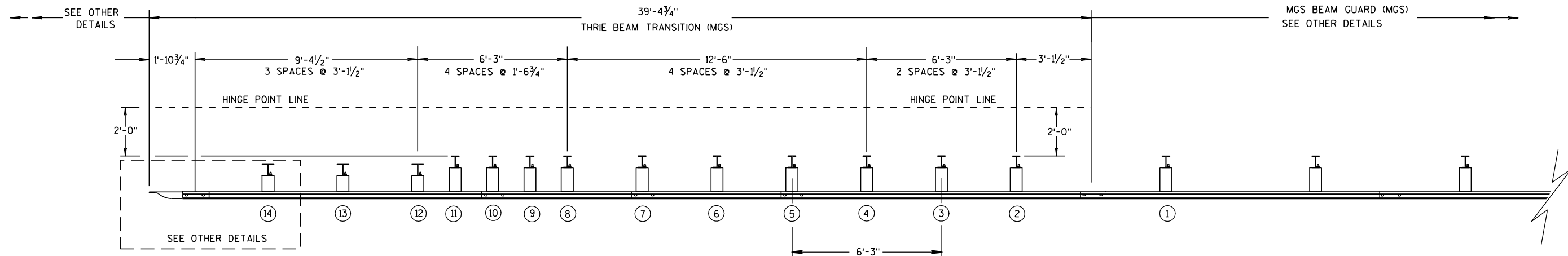
IF ROCK IS ENCOUNTERED, REMOVE ROCK TO FULL DEPTH OF POST PLUS 2 1/2", AND 12" DIAMETER AROUND POST. SEE 14B42 FOR MORE DETAILS.

TRANSITION USES STEEL POSTS ONLY.

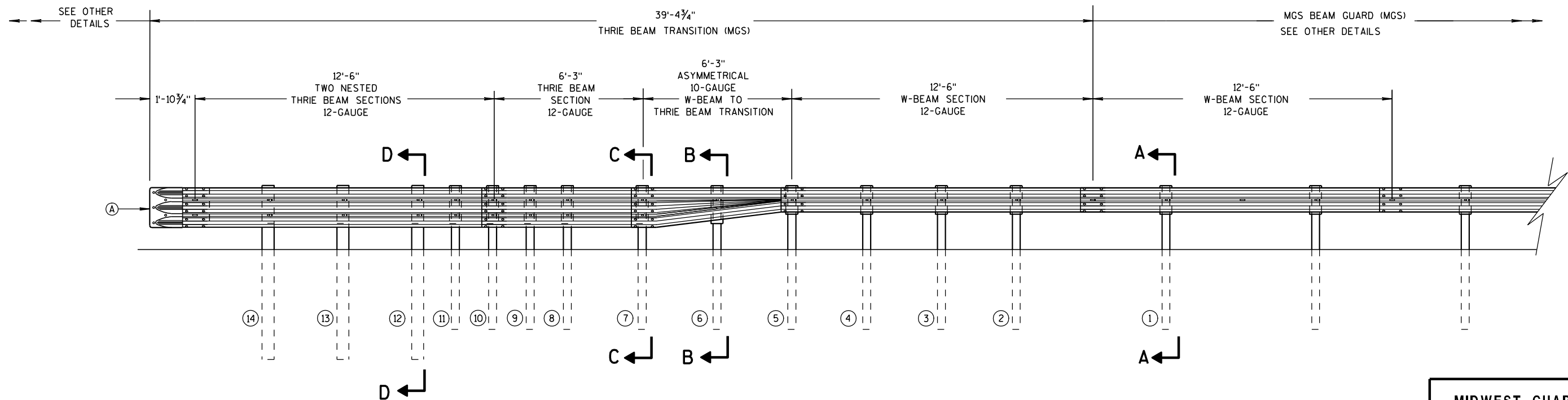
SEE STANDARD DETAIL DRAWING 14 B 42 FOR MORE INFORMATION.

Ⓐ BRIDGE RAILING TYPE "W" DOES NOT REQUIRE A TERMINAL CONNECTOR.

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



PLAN VIEW



ELEVATION VIEW

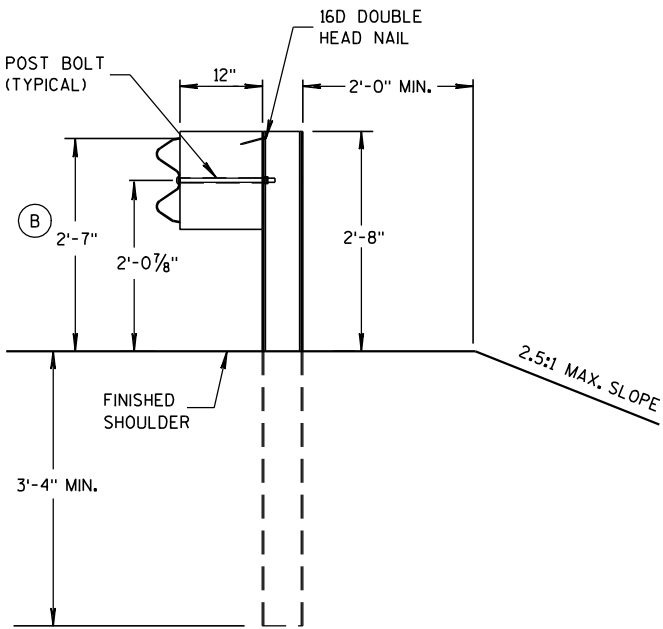
MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

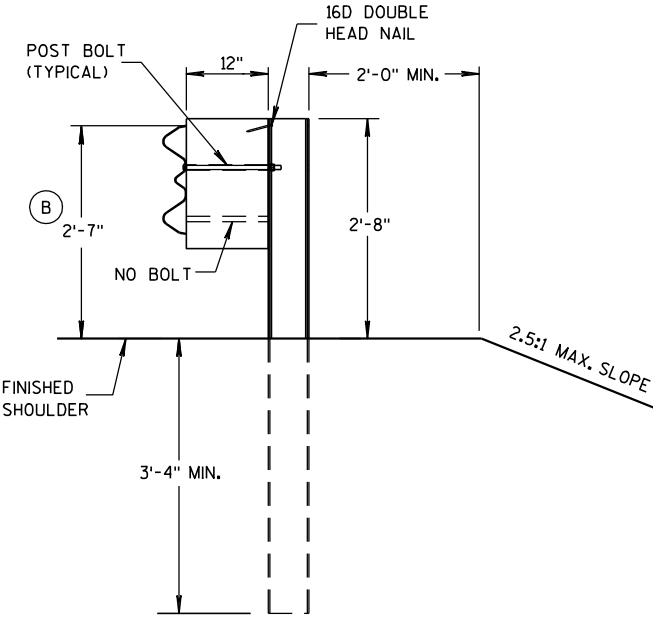
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
140

GENERAL NOTES

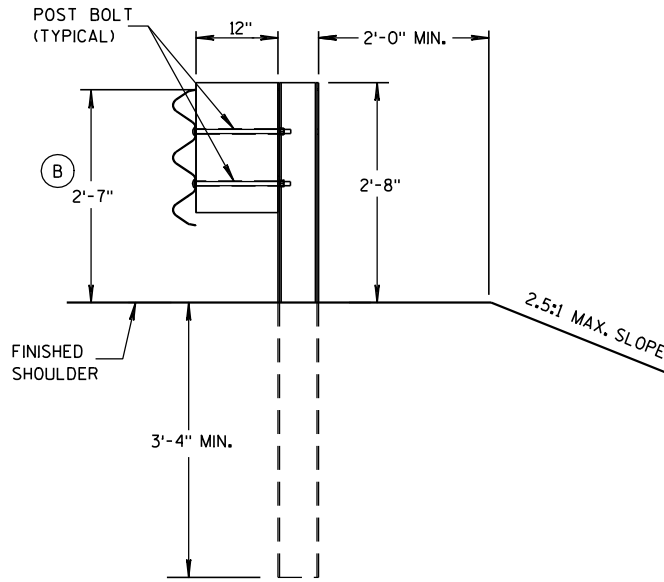
(B) TOLERANCE FOR TOP OF W-BEAM RAIL IS $\pm 1"$.



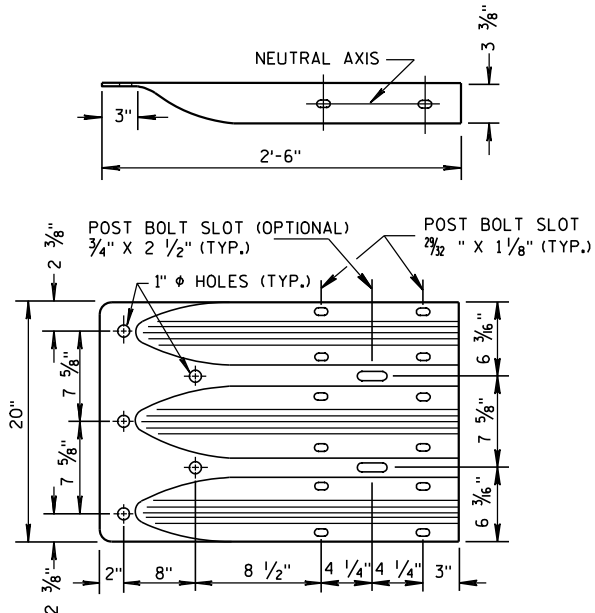
SECTION A-A
POSTS 1-5



SECTION B-B
POST 6



SECTION C-C
POSTS 7-11



THRIE BEAM
TERMINAL CONNECTOR

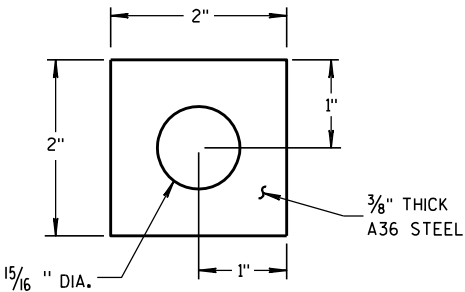
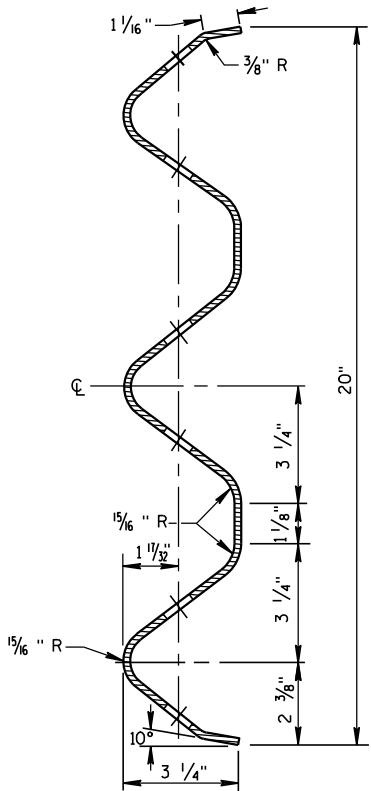
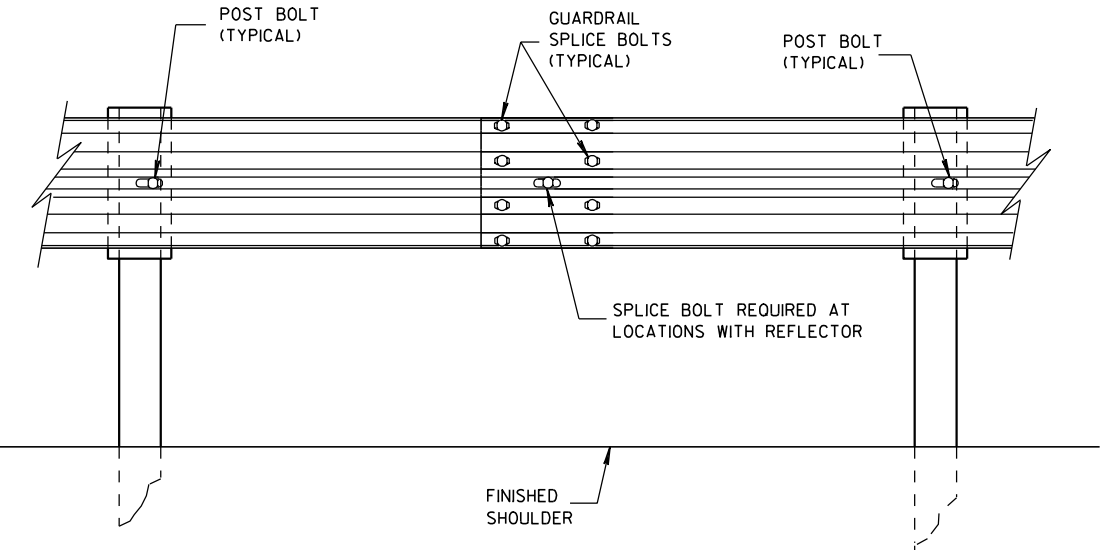


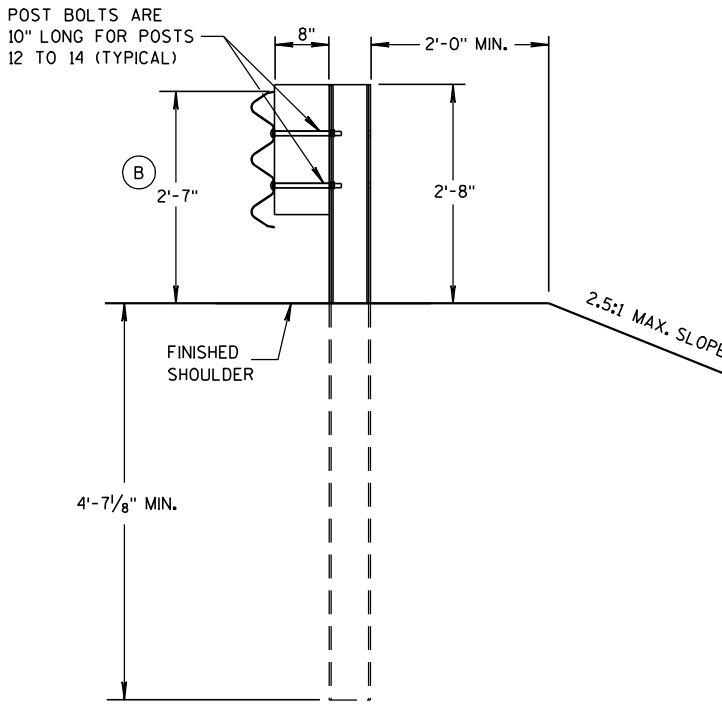
PLATE WASHER DETAIL



SECTION THRU THRIE
BEAM RAIL ELEMENT



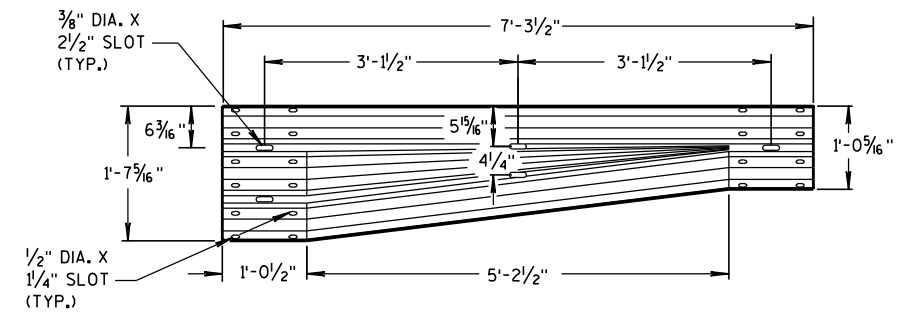
SPLICE DETAIL



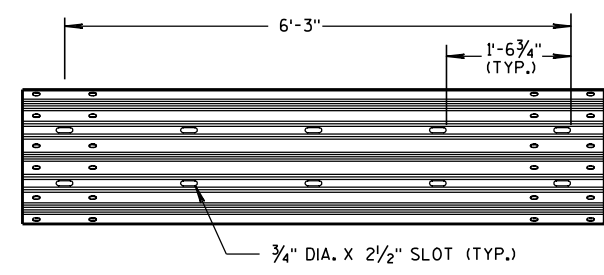
SECTION D-D
POSTS 12-14

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

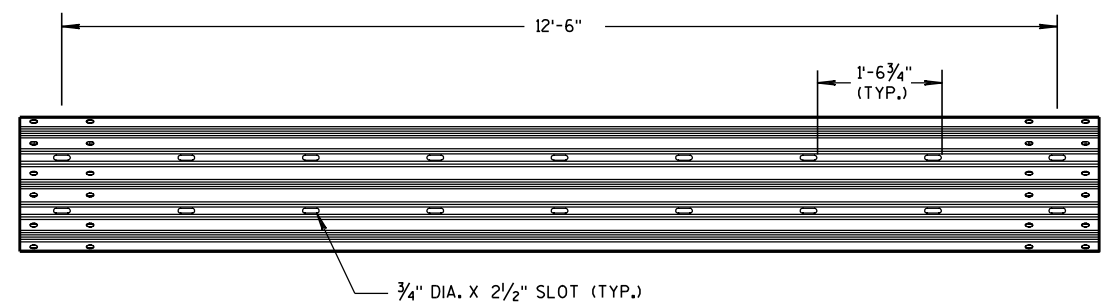
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



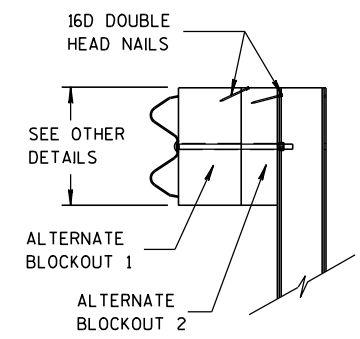
W-BEAM TO THRIE BEAM TRANSITION SECTION



6'-3" THRIE BEAM SECTION

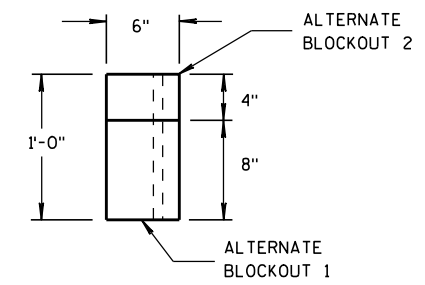


12'-6" THRIE BEAM SECTION

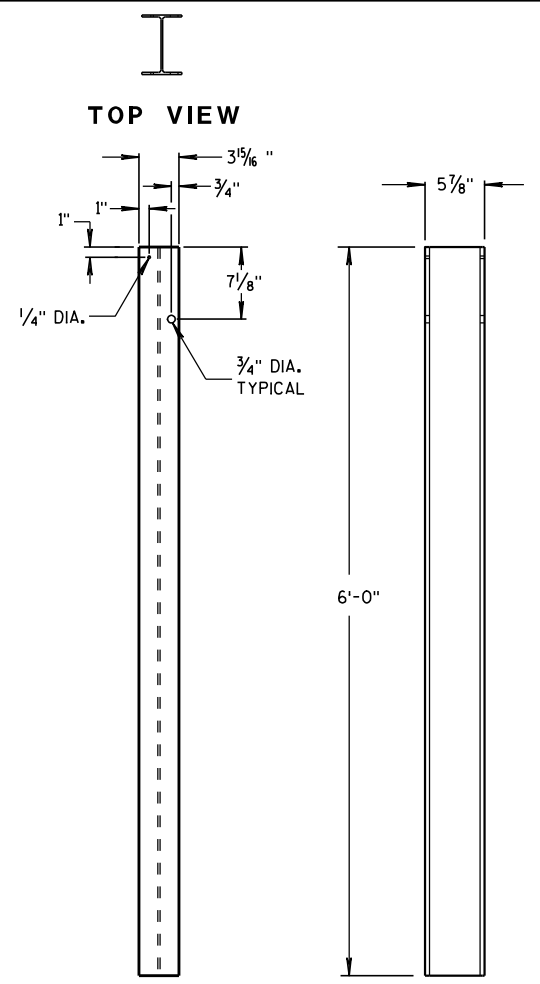


SIDE VIEW

ALTERNATE WOOD BLOCKOUT DETAIL



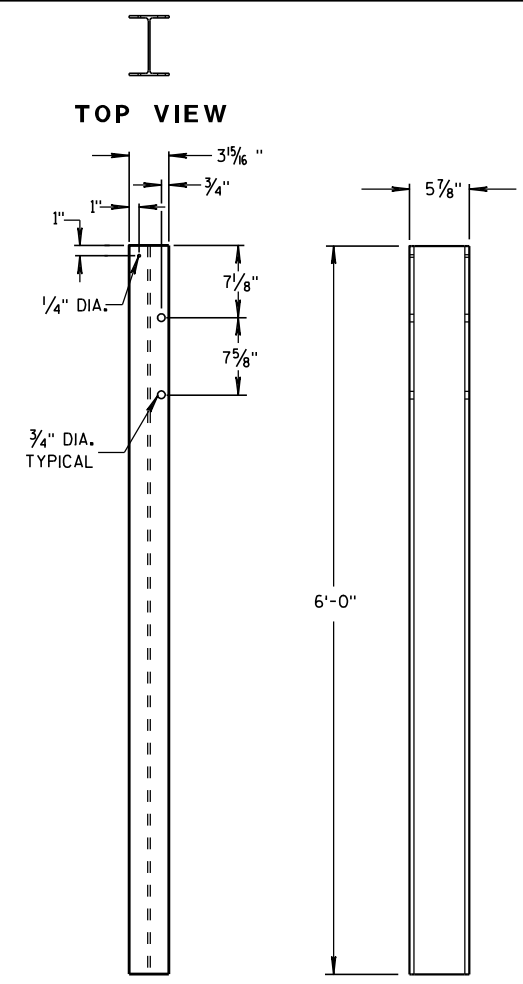
TOP VIEW



FRONT VIEW

SIDE VIEW

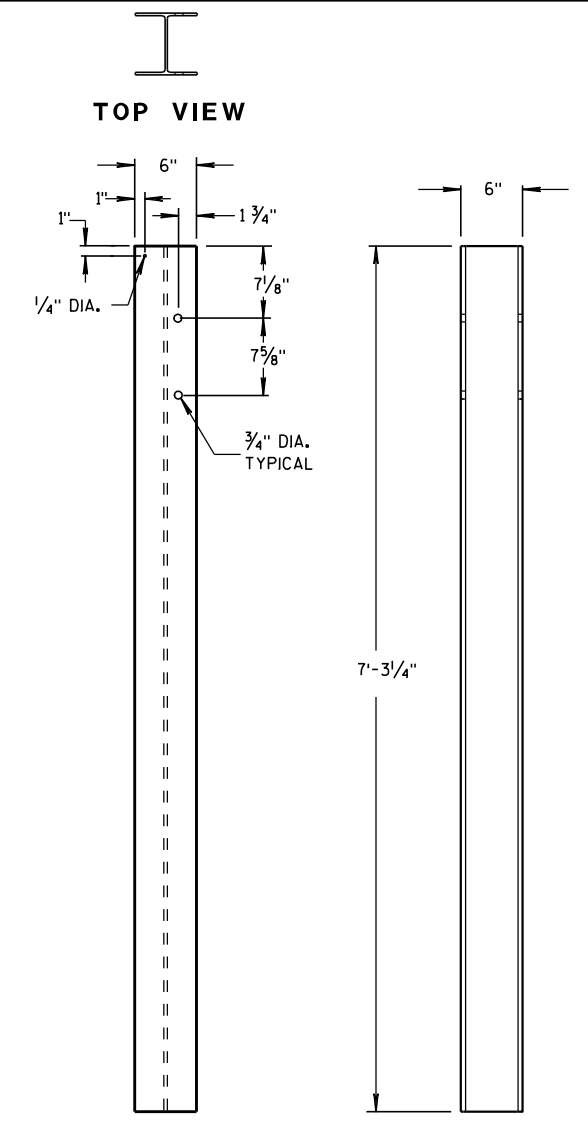
STEEL POSTS 1-5



FRONT VIEW

SIDE VIEW

STEEL POSTS 6-11

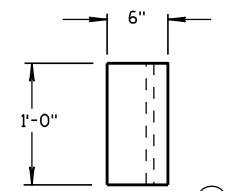


FRONT VIEW

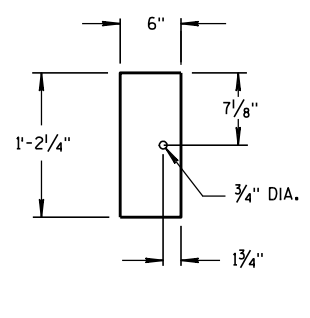
SIDE VIEW

STEEL POSTS 12-14

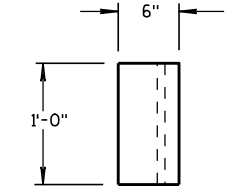
① WOOD BLOCKS MAY BE CONSTRUCTED OUT OF 2 WOOD BLOCKS. SEE ALTERNATE WOOD BLOCK DETAIL.



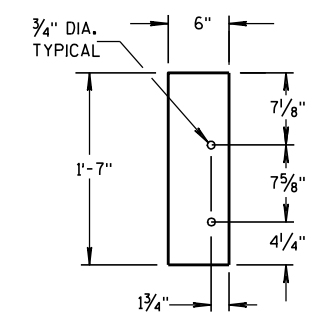
TOP VIEW



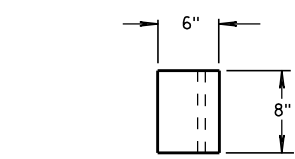
FRONT VIEW
BLOCKOUT
POSTS 1-5



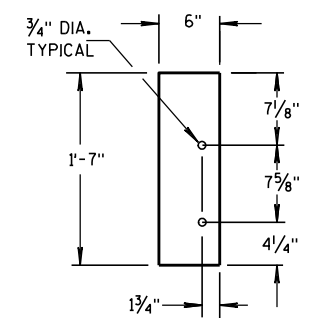
TOP VIEW



FRONT VIEW
BLOCKOUT
POSTS 6-11



TOP VIEW

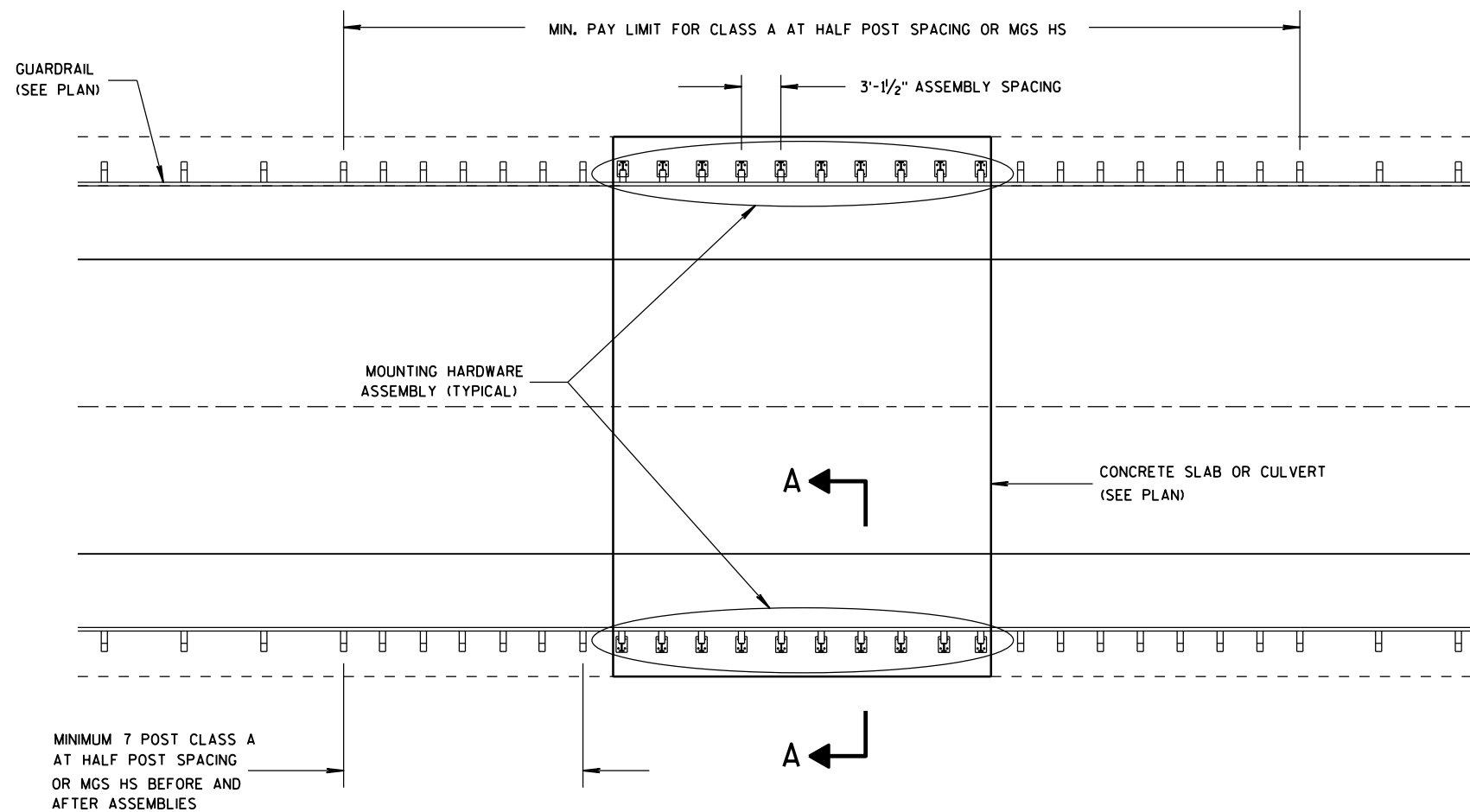


FRONT VIEW
BLOCKOUT
POSTS 12-14

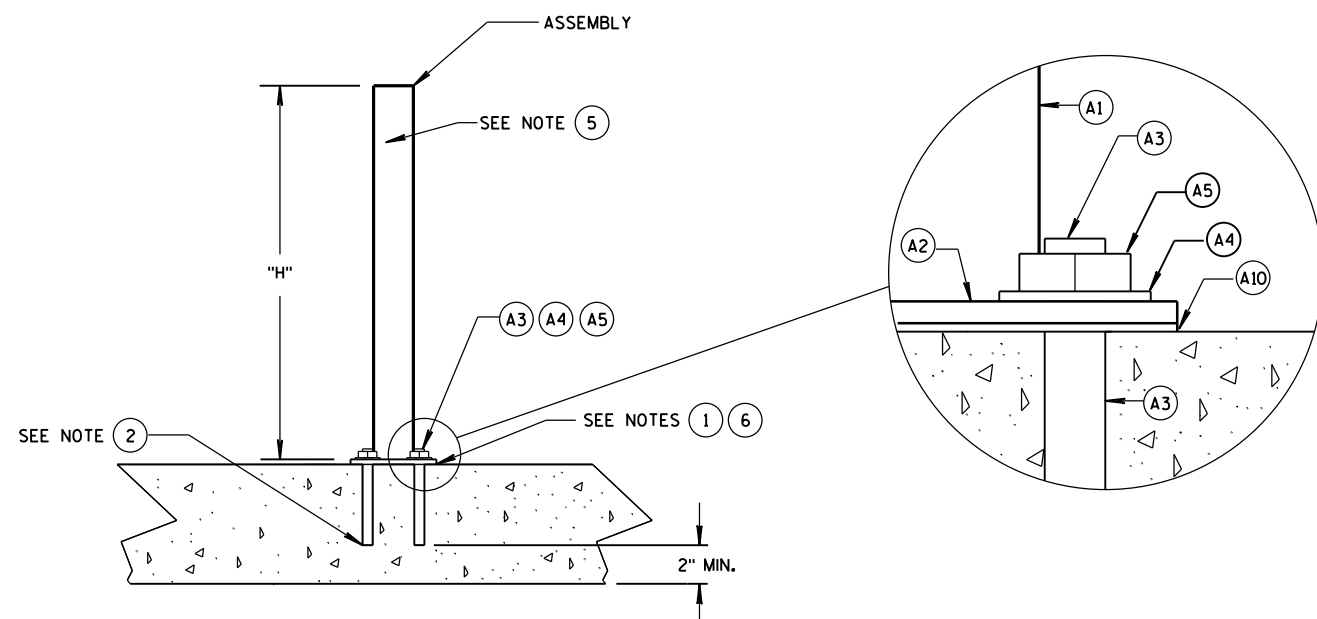
STEEL POST SIZES

POST NUMBER	SECTION TYPE	LENGTH
①	W6x9	72"
②	W6x9	72"
③	W6x9	72"
④	W6x9	72"
⑤	W6x9	72"
⑥	W6x9	72"
⑦	W6x9	72"
⑧	W6x9	72"
⑨	W6x9	72"
⑩	W6x9	72"
⑪	W6x9	72"
⑫	W6x15	87 1/8"
⑬	W6x15	87 1/8"
⑭	W6x15	87 1/8"

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

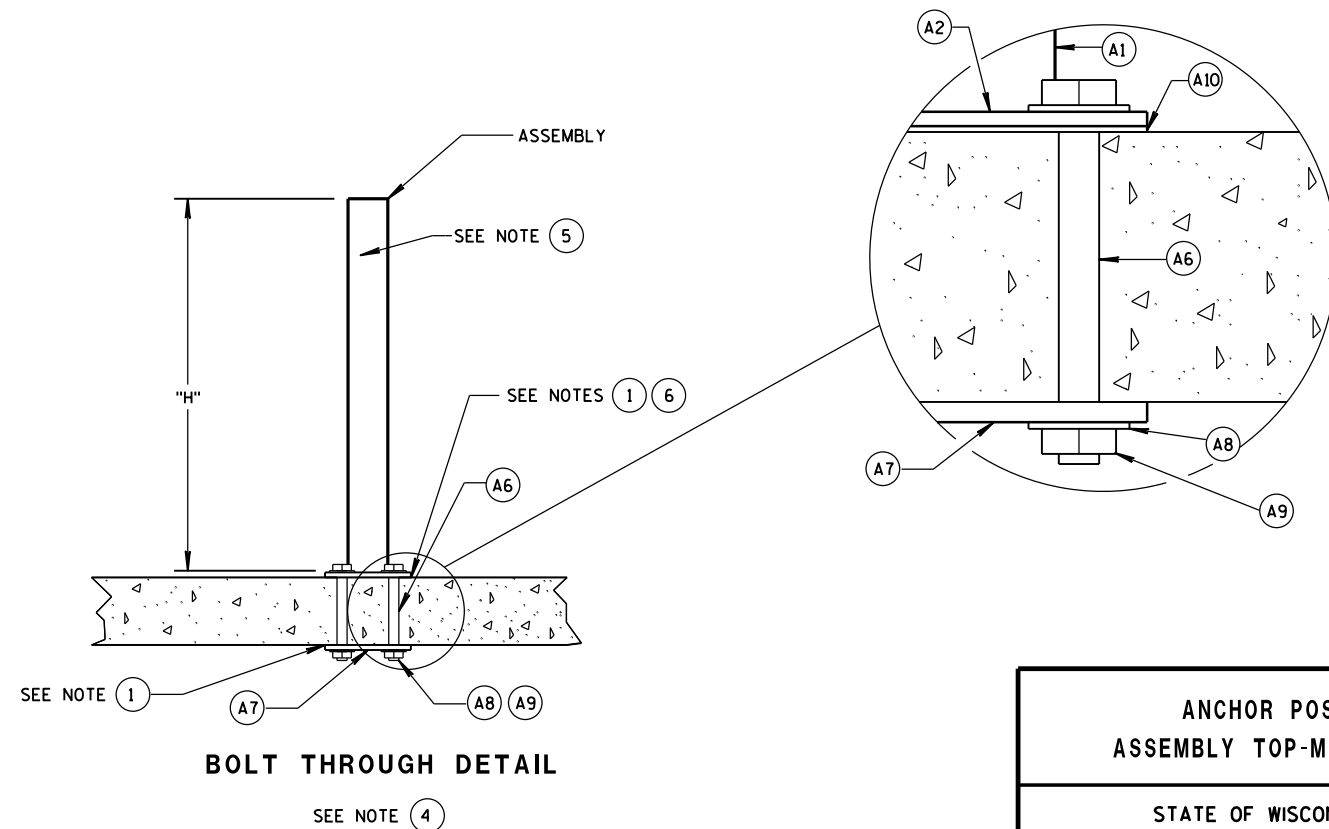


PLAN VIEW



ADHESIVE ANCHOR DETAIL

SEE NOTE (4)



BOLT THROUGH DETAIL

SEE NOTE (4)

GENERAL NOTES

HOLES DRILLED INTO CONCRETE SLAB OR CULVERT ARE 1/8-INCH DIAMETER.

POST BASE PLATE (AND BOTTOM PLATES IF USED) SHALL BE FLAT WITH ALL SURFACES SMOOTH, AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUTS. CUT BOTTOM OF POST SO THAT POST WILL BE VERTICAL WHEN POST ASSEMBLY IS PLACED ON TOP OF CONCRETE. HEX BOLTS AND THREADED RODS ARE TO BE PLACED PERPENDICULAR TO THE BASE PLATE.

"H" DIMENSION WILL VARY. SEE PLAN FOR "H" DIMENSION. CONTRACTOR HAS OPTION OF INSTALLING POSTS THAT ARE TALLER THAN "H" DIMENSION AND CUT POSTS TO PROPER "H" DIMENSION IN THE FIELD. IF ELECTING TO FIELD CUT POSTS, DRILL HOLES AT APPROPRIATE LOCATIONS AND APPLY GALVANIZATION.

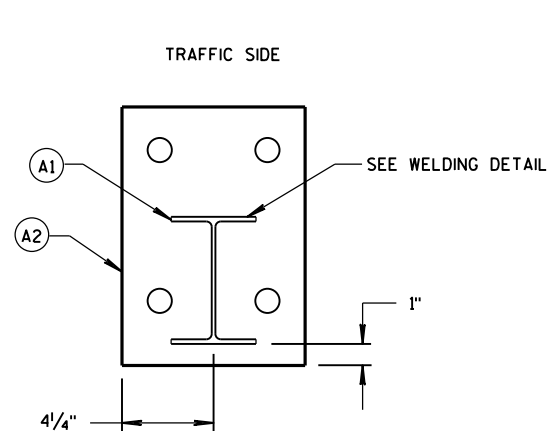
GALVANIZE STEEL COMPONENTS AFTER FABRICATION PER SECTION 614 OF THE WISCONSIN DEPT. OF TRANSPORTATION STANDARD SPECIFICATIONS.

INSTALL 1 NUT AND 1 WASHER WHERE APPLICABLE. PROVIDE SUFFICIENT LENGTH OF BOLT OR THREADED ROD TO ALLOW FOR 1/4-INCH TO 1/2-INCH OF THREAD TO BEYOND THE NUT.

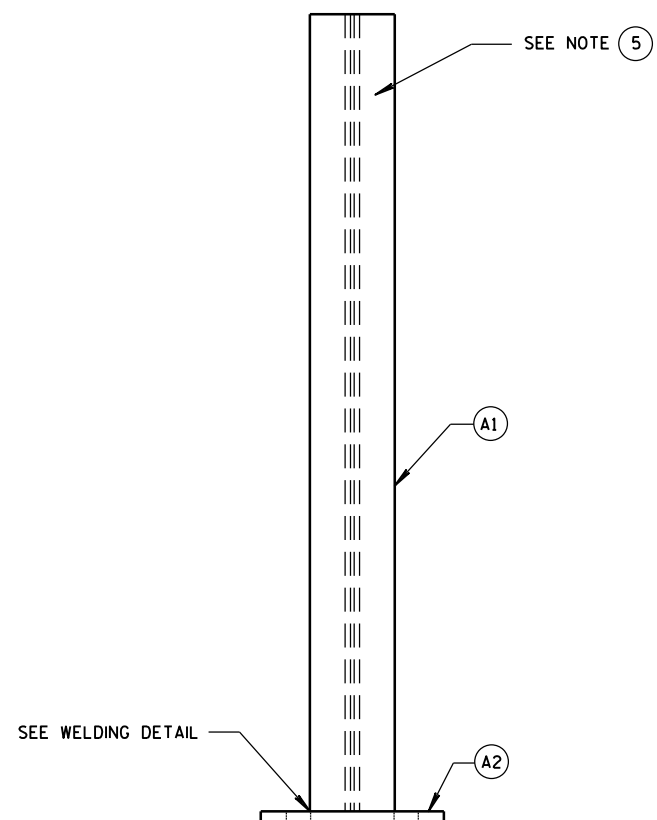
- ① PLACE NON-STAINING, GRAY NON-BITUMINOUS JOINT SEALER ON THE BOTTOM (A2) AND IN DRILL HOLES FOR BOLT THROUGH OPTION.
- ② BOND STRENGTH OF ADHESIVE IS 1,305 PSI OR GREATER WITH A MINIMUM EMBEDMENT DEPTH OF 8-INCHES. IF MINIMUM EMBEDMENT CANNOT BE ACHIEVED BOLT THROUGH STRUCTURE.
- ③ USE GAS-METAL ARC WELDING (GMAW) PROCESS WITH ER70S-3 WELDING WIRE AND ARGON-OXYGEN OR CO2 COVER GAS.
- ④ OTHER COMPONENT OF BARRIER SYSTEM NOT SHOWN. SEE OTHER STANDARD DETAIL DRAWINGS. SEE SDD 14 B 15 OR SDD 14 B 42 FOR MORE DETAILS.
- ⑤ HOLES TO MOUNT BEAM GUARD AND BLOCK NOT SHOWN ON DRAWINGS. SEE OTHER STANDARD DETAIL DRAWINGS. SEE SDD 14 B 15 OR SDD 14 B 42 FOR MORE DETAILS.
- ⑥ ADD AND ADJUST SHIM PLATES AS NECESSARY TO INSTALL POST PLUMB. SEE (A10) FOR DETAIL.

ANCHOR POST
ASSEMBLY TOP-MOUNTED

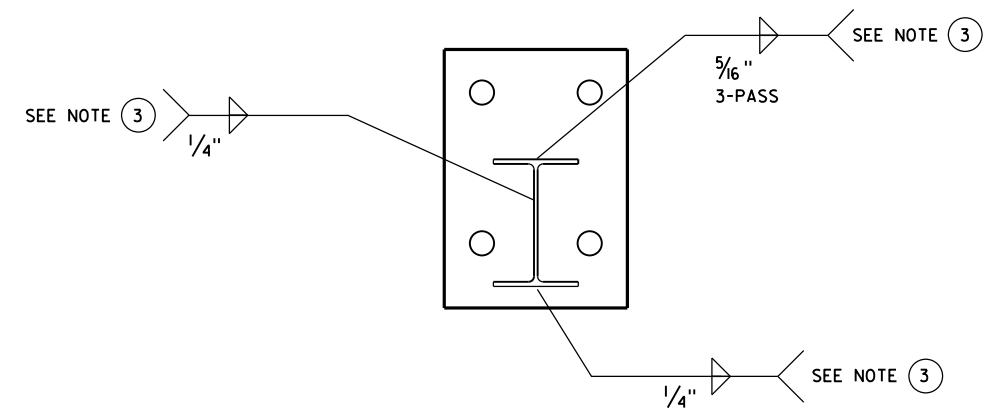
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION 143



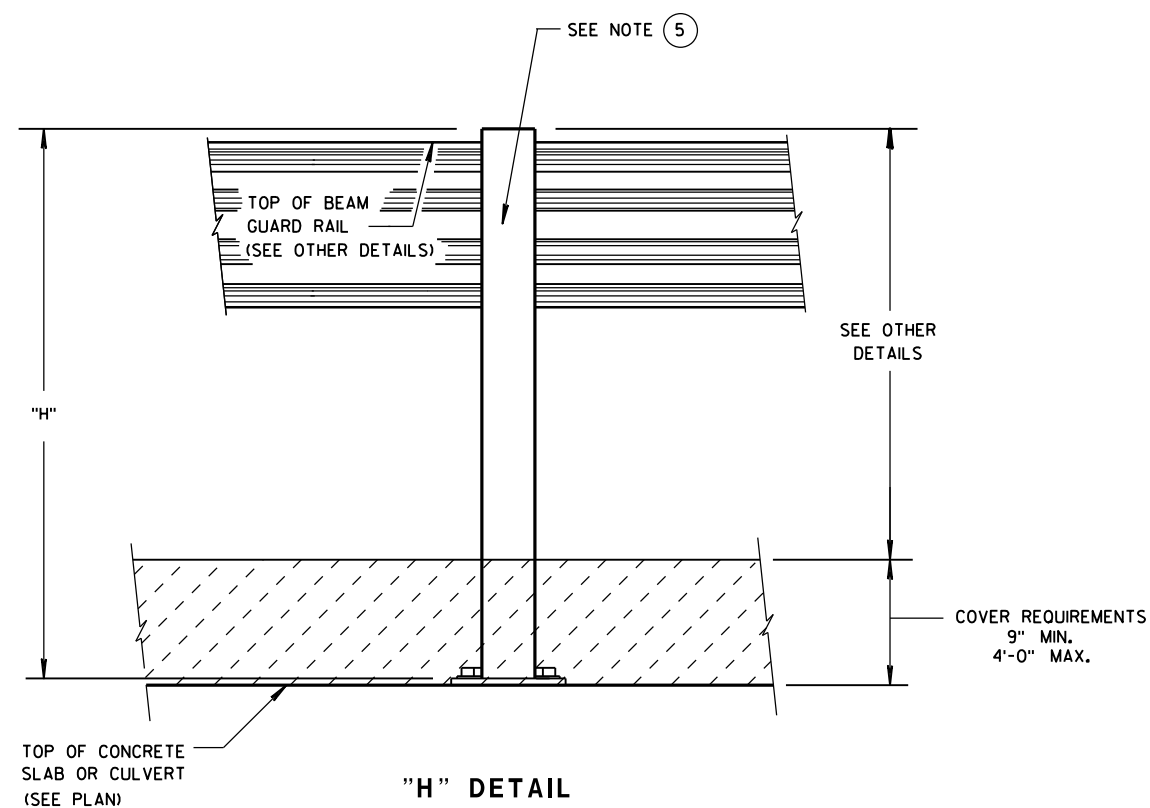
PLAN VIEW OF ASSEMBLY



PROFILE VIEW OF ASSEMBLY



WELDING DETAIL



"H" DETAIL

SEE NOTE 4

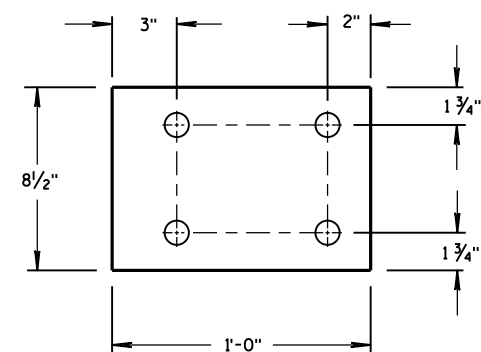
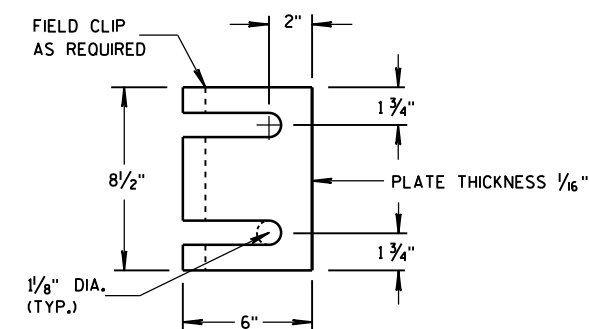


PLATE THICKNESS 1/2"

1/8" DIA. HOLE (TYP.)

A2 DETAILS



A10 DETAILS

ANCHOR POST
ASSEMBLY TOP-MOUNTED

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION 144

MATERIALS LIST

ITEM	DESCRIPTION	MATERIAL SPECIFICATIONS	NOTES
(A1)	W6x9 or W6x8.5	ASTM A992, 50 KSI MIN. ASTM A709 GRADE 50 OR ASTM A36	SEE SDD 14B15 OR 14B42 LENGTH WILL VARY
(A2)	STEEL BASE PLATE	ASTM A992 50 KSI MIN., ASTM A529 GRADE 50, ASTM A572 GRADE 50, OR ASTM A36	
(A3)	1" DIA. THREADED ROD	SAE J429 GRADE 2, ASTM A307 GRADE C, OR ASTM F1554 GRADE 36	LENGTH WILL VARY
(A4)	1" DIA. FLAT WASHER	ASTM F844	
(A5)	1" HEX NUT	ASTM A563A	
(A6)	1" DIA. HEX BOLT	ASTM A307	LENGTH WILL VARY
(A7)	PLATE WASHER	ASTM A992 50 KSI MIN., ASTM A529 GRADE 50, ASTM A572 GRADE 50, OR ASTM A36	
(A8)	1" DIA. FLAT WASHER	ASTM F844	
(A9)	1" DIA. HEX NUT	ASTM A563A	
(A10)	SHIM PLATE	SEE (A2)	4 MAX PER POST

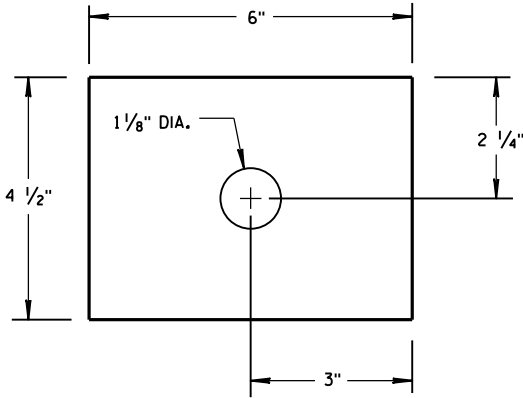
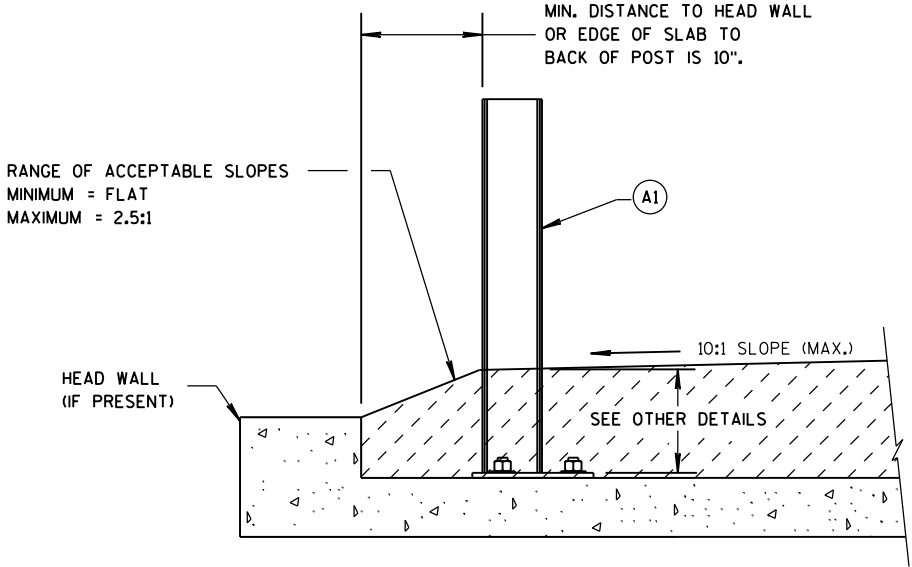
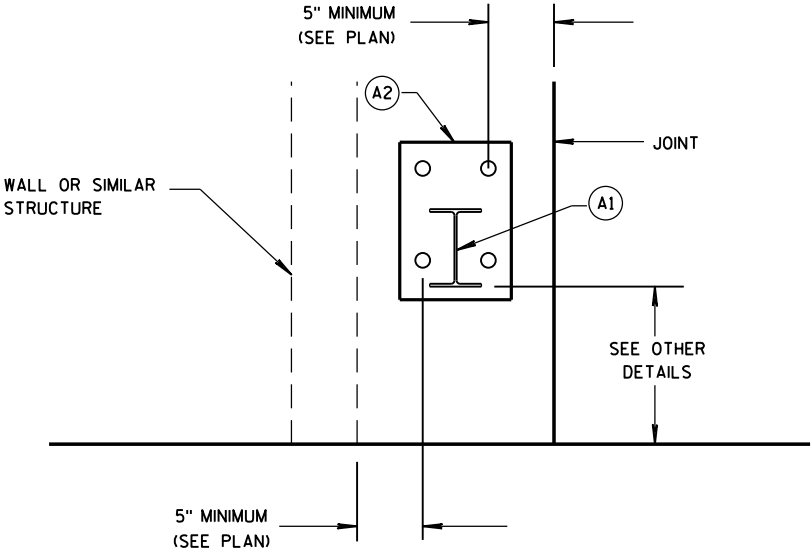


PLATE WASHER - (A7)



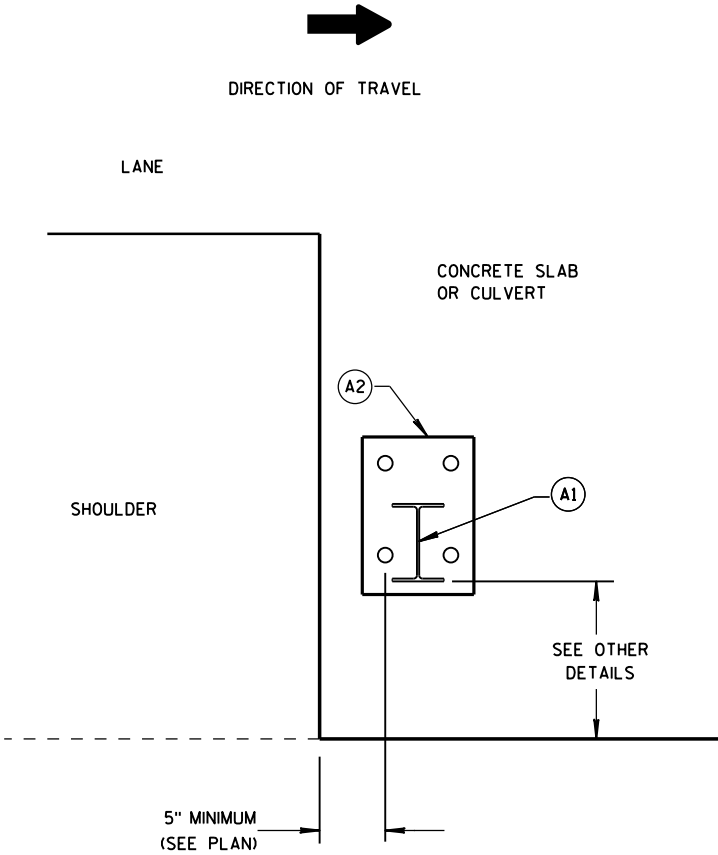
SECTION A-A

SEE NOTE (4)



OBSTRUCTION AND JOINT PLACEMENT

SEE NOTE (4)



EDGE PLACEMENT

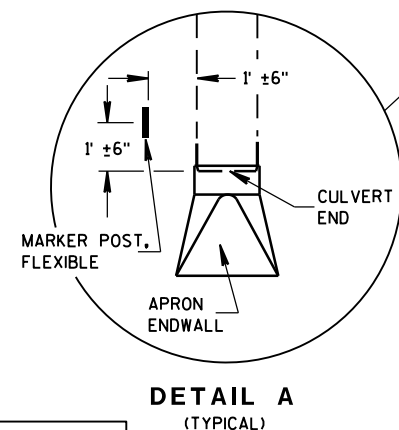
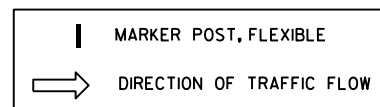
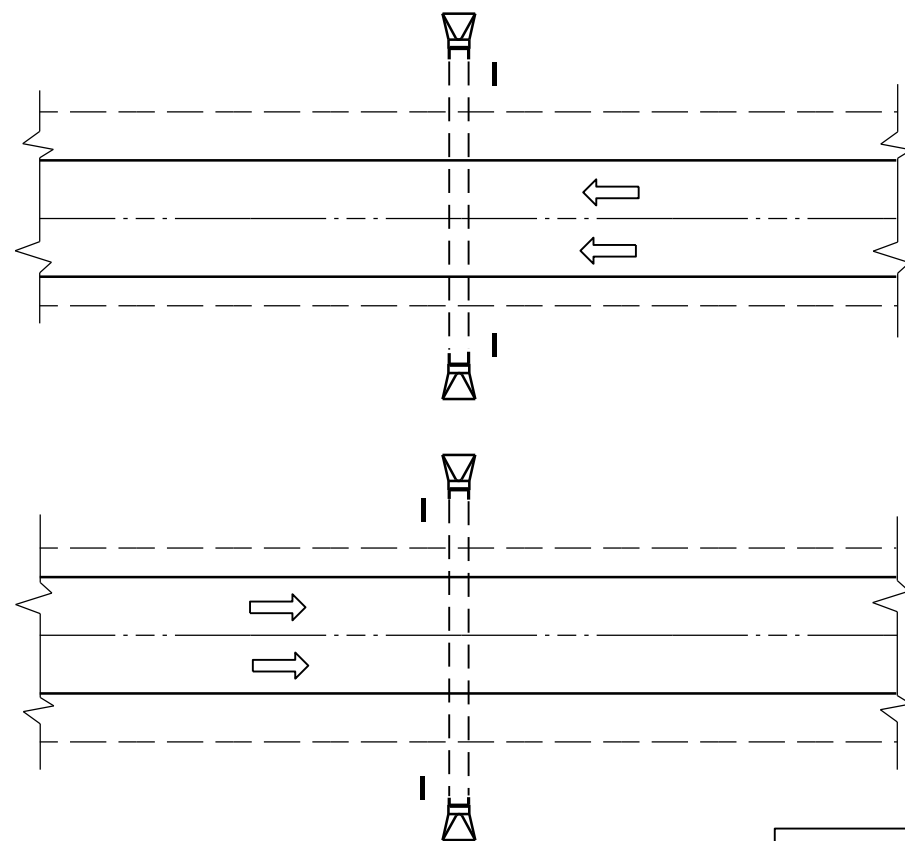
SEE NOTE (4)

ANCHOR POST
ASSEMBLY TOP-MOUNTED

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

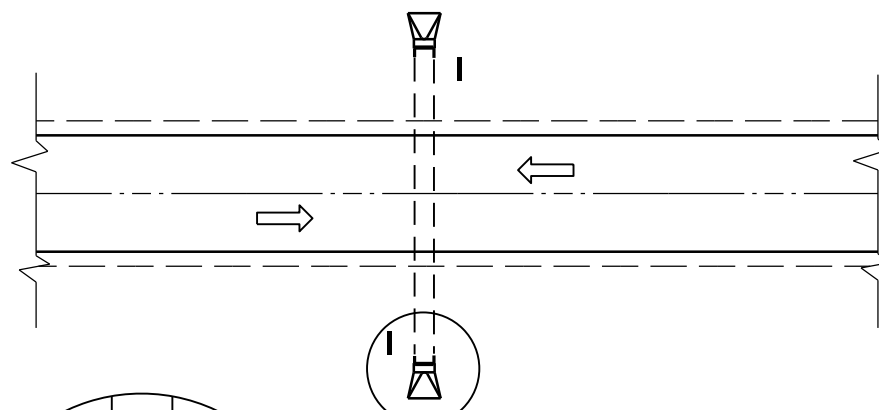
APPROVED
June 2014 /S/ Jerry H. Zogg
DATE ROADWAY STANDARDS 145 ENT
FHWA ENGINEER

PLAN VIEW
DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

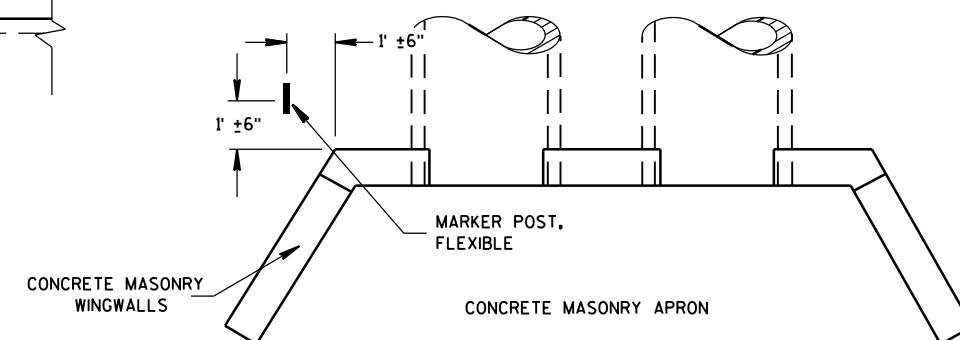
PLAN VIEW
UNDIVIDED HIGHWAY



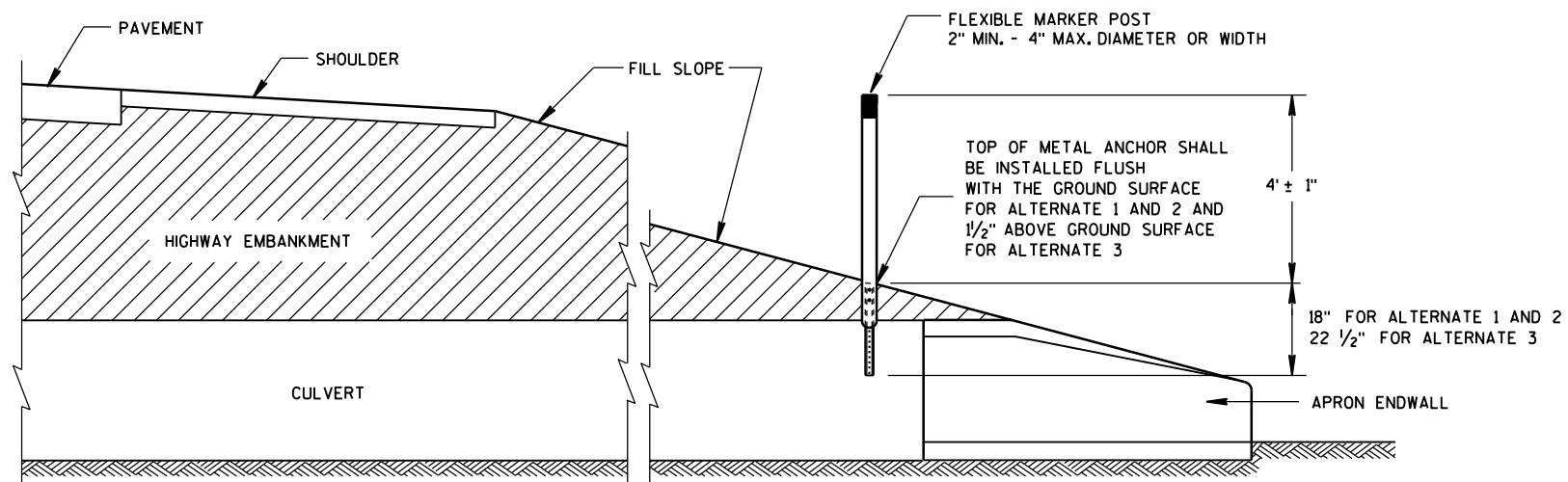
FLEXIBLE MARKER POST LOCATION

GENERAL NOTES

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



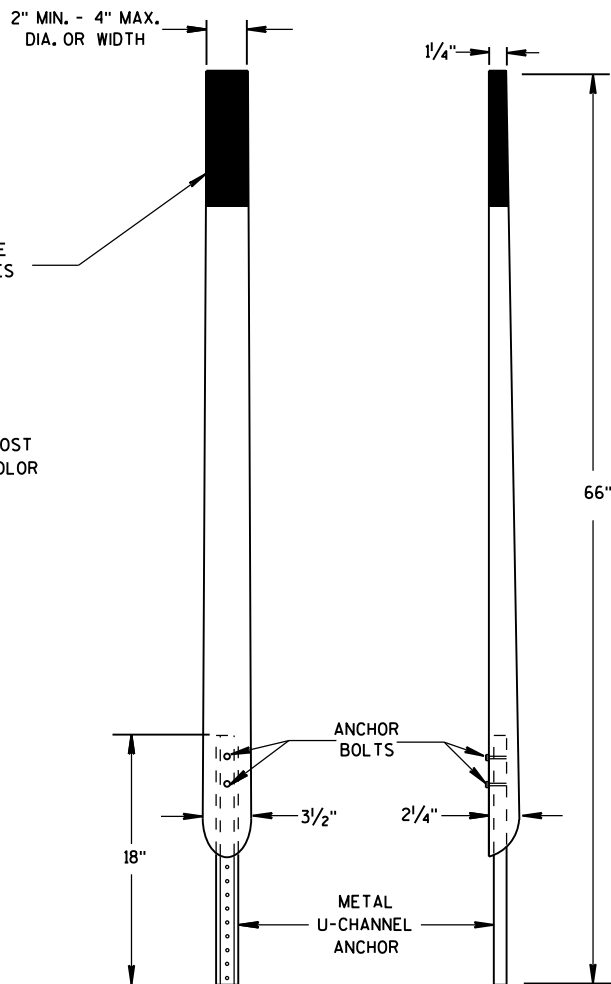
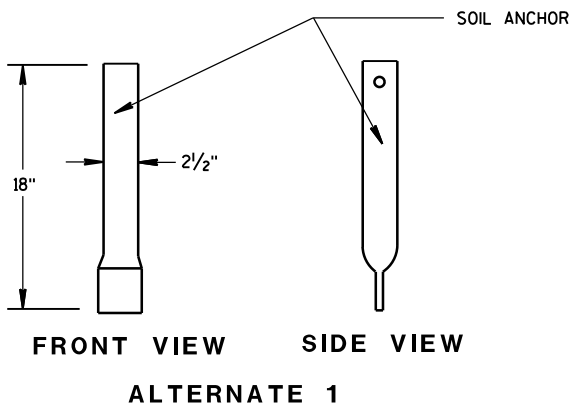
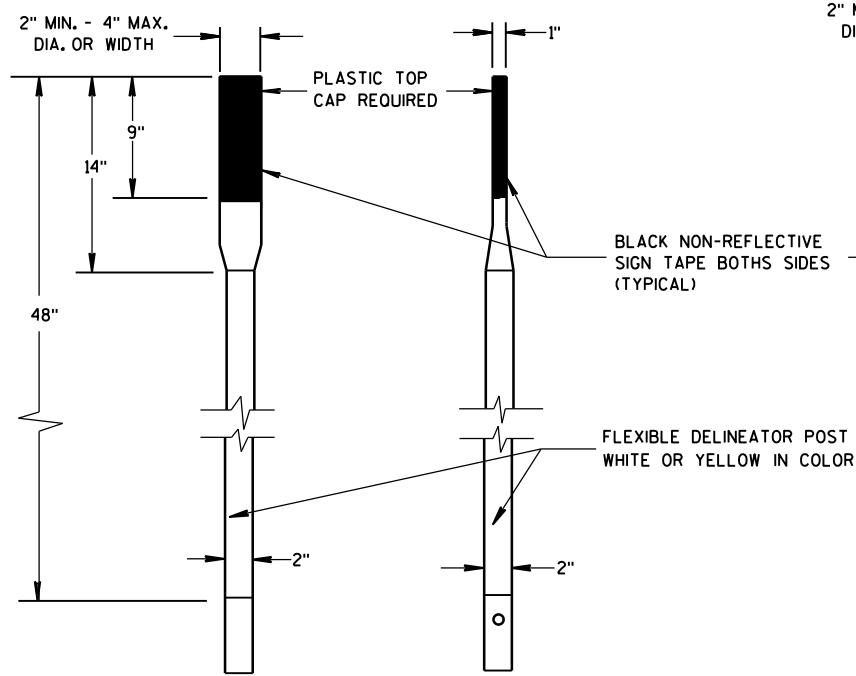
PLAN VIEW
CONCRETE MASONRY ENDWALLS FOR
CULVERT PIPE AND PIPE ARCH



CROSS SECTION
FLEXIBLE MARKER POST

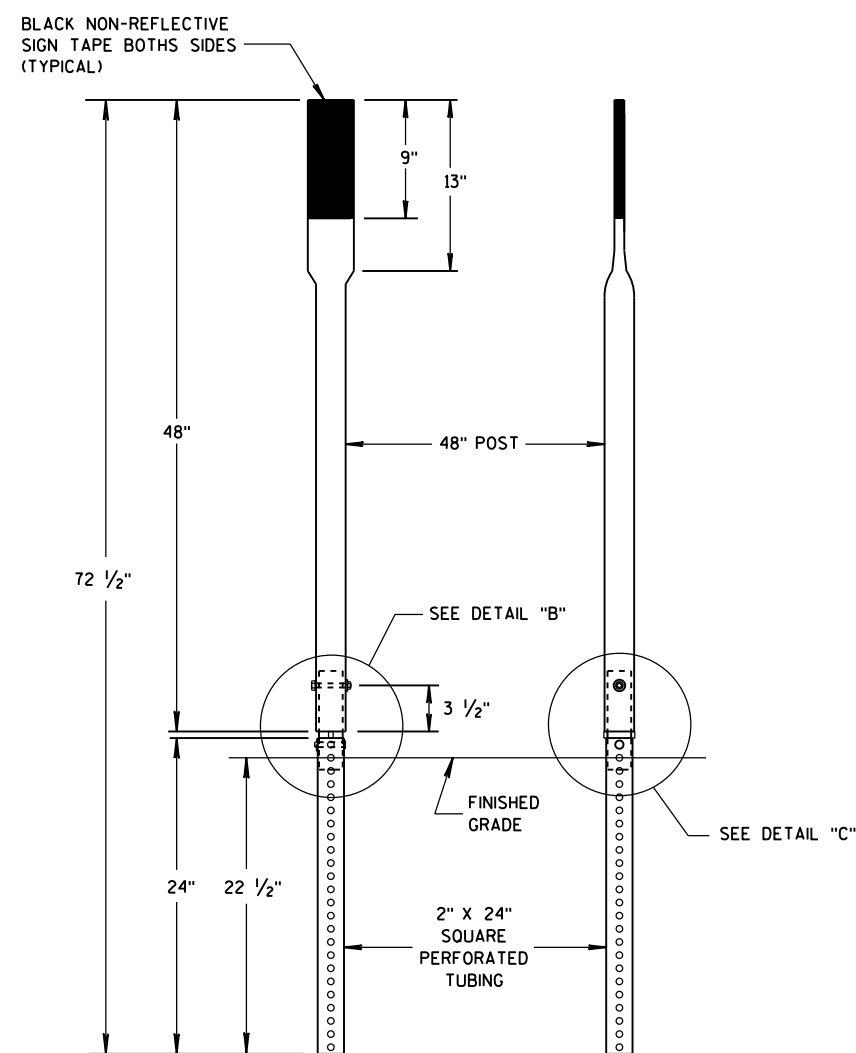
FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION 146

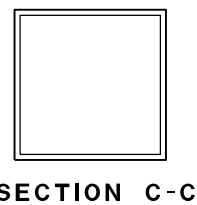


FRONT VIEW SIDE VIEW
ALTERNATE 2

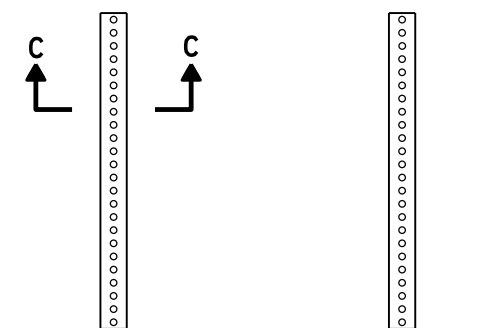
FLEXIBLE MARKER POSTS



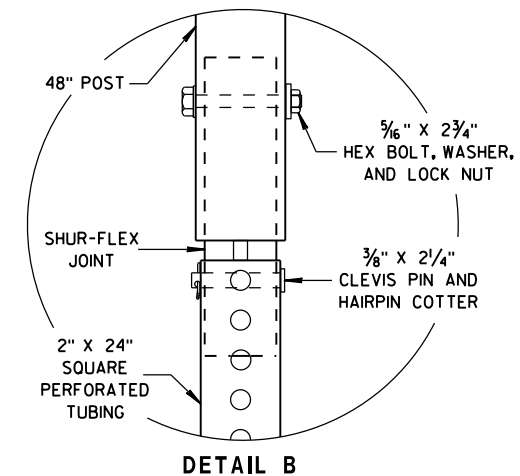
FRONT VIEW SIDE VIEW
ALTERNATE 3



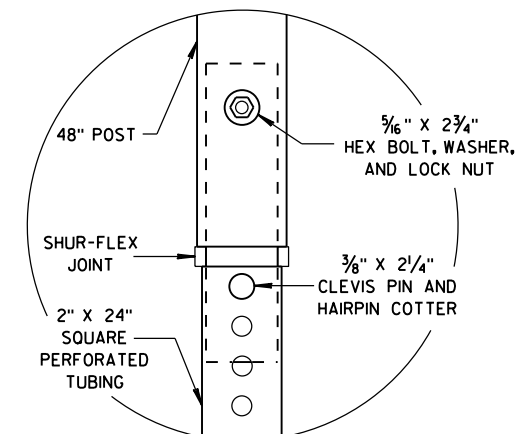
SECTION C-C



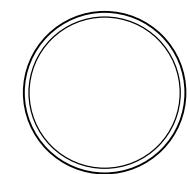
FRONT VIEW SIDE VIEW
ALTERNATE 3



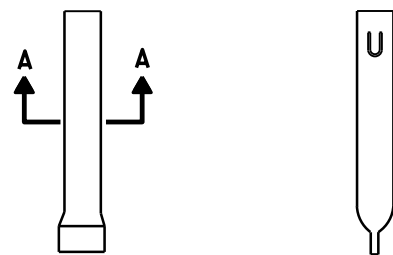
DETAIL B



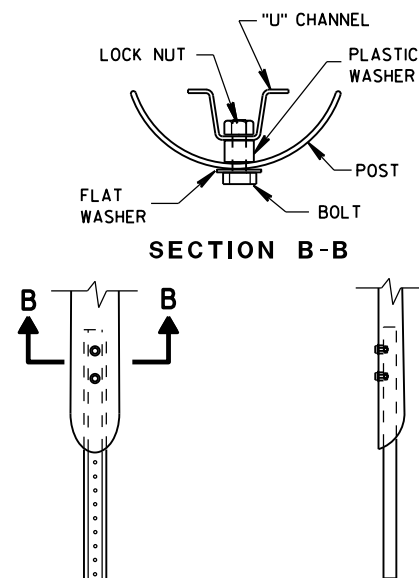
DETAIL C



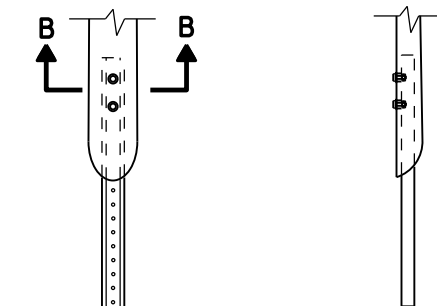
SECTION A-A



FRONT VIEW SIDE VIEW
ALTERNATE 1



SECTION B-B



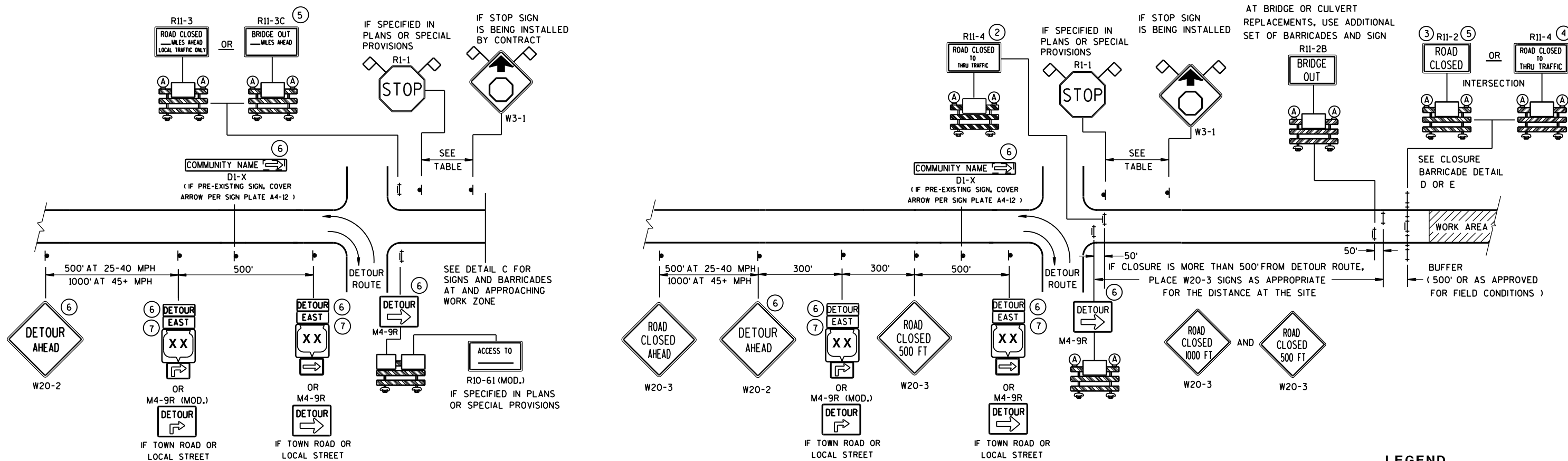
FRONT VIEW SIDE VIEW
ALTERNATE 2

FLEXIBLE MARKER POST ANCHORS

FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/1/2012 /S/ Travis Feltes
DATE STATE TRAFFIC ENGINEER 147 IGN
FHWA



LEGEND

- SIGN ON PERMANENT SUPPORT
- ⊥ TYPE III BARRICADE
- ⊥ TYPE III BARRICADE WITH ATTACHED SIGN
- Ⓐ TYPE "A" WARNING LIGHT (FLASHING)

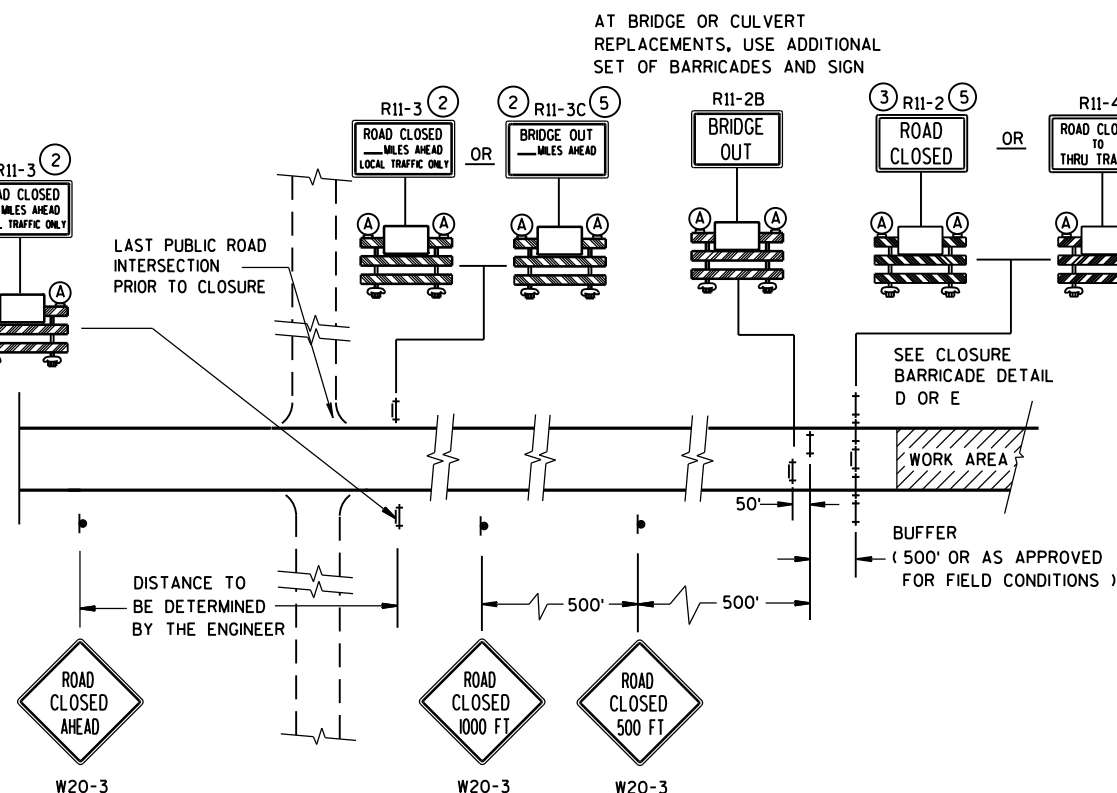
WORK AREA

DETOUR EAST
M4-8
M3-X
XX OR XX OR XX
M1-4 M1-5A M1-6

M05-1 OR M06-1

FLAGS, 16" X 16" MIN., (ORANGE)

SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (FT)
25	200
30	200
35	350
40	350
45	500
50	550
55	750

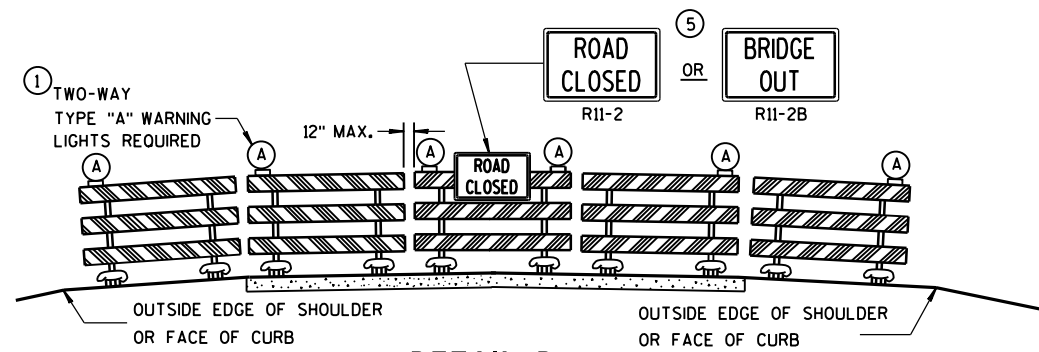


SEE SDD 15C2-SHEET "b"
FOR GENERAL NOTES
AND FOOTNOTES ① THROUGH ⑦

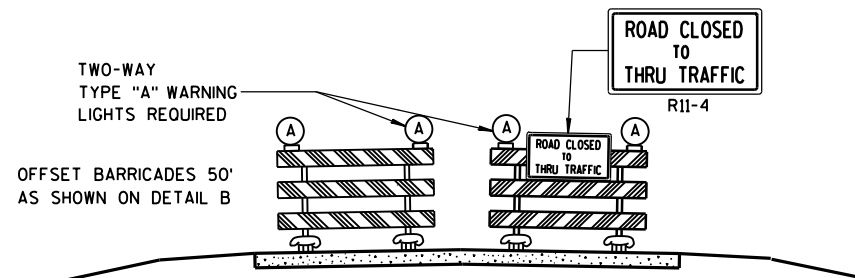
BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

8/2013 DATE /S/ Travis Feltes
STATE TRAFFIC ENGINE 148 EIGN
FHWA



DETAIL D
ROAD CLOSURE BARRICADE DETAIL
APPROACH VIEW



DETAIL E
LANE CLOSURE BARRICADE DETAIL
APPROACH VIEW

SEE SDD 15C2-SHEET "a" FOR LEGEND

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL D FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3, M4-9, R11-4 AND R10-61 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

"WO" AND "MO" SIGNS ARE THE SAME AS "W" AND "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:

R11-2 SHALL BE 48" X 30".

R11-3, R11-4 AND R10-61 SHALL BE 60" X 30".

M4-9 SHALL BE 30" X 24".

M3-X SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS.)

M4-8 SHALL BE 24" X 12". (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS.)

M1-4, M1-5A, AND M1-6 SHALL BE 24" X 24". (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS.)

M05-1 AND M06-1 SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS.)

D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

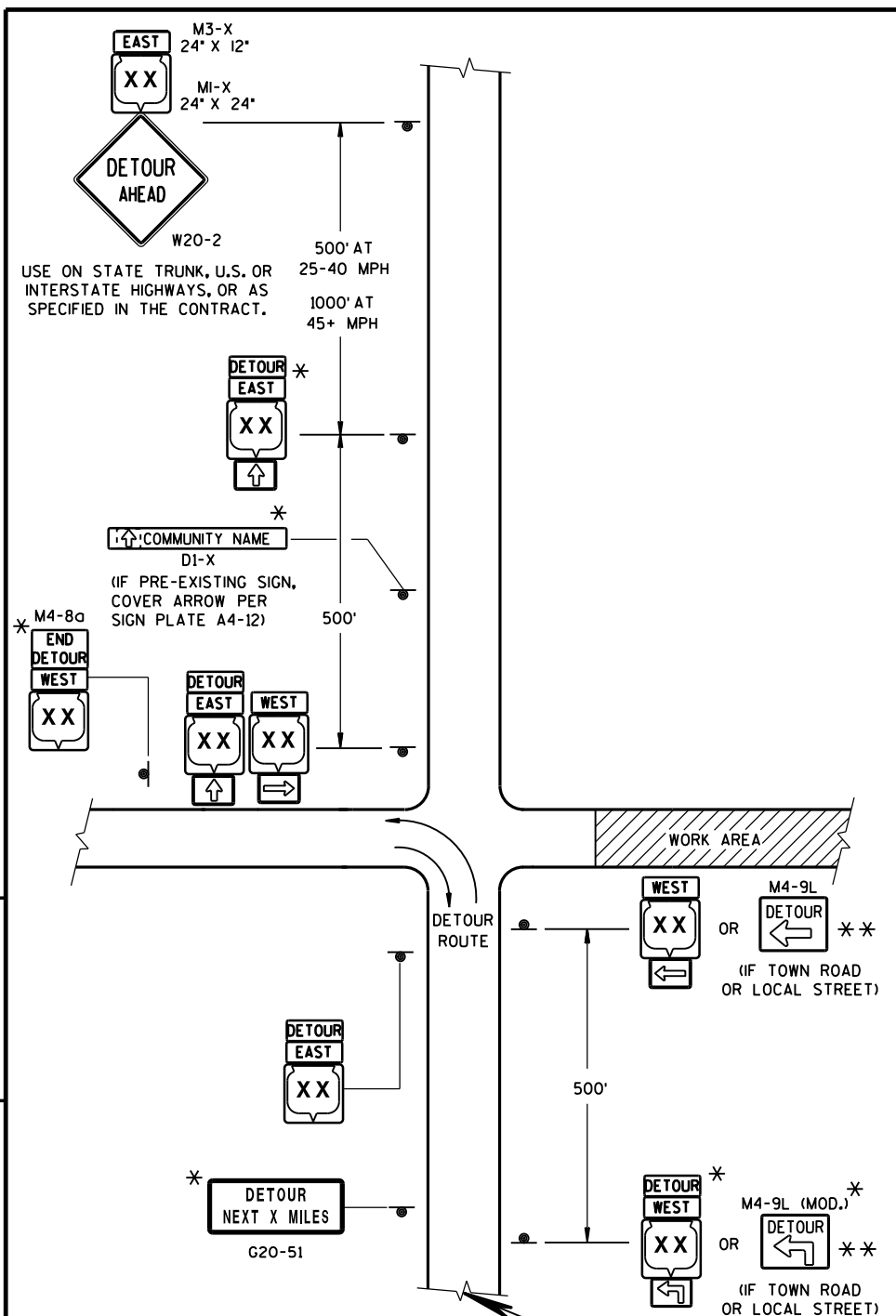
R1-1 SHALL BE 36" X 36".

- ① TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8-FOOT LIGHT SPACING).
- ② THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT INTERSECTION.
- ③ FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL D.
- ④ FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE LANE CLOSURE BARRICADE DETAIL E.
- ⑤ FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11-2 AND R11-3 SIGNS.
- ⑥ INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.
- ⑦ "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

8/2013 /S/ Travis Feltes
DATE STATE TRAFFIC ENGINE 149 ESIGN
FHWA



THIS DRAWING PROVIDES GENERAL GUIDANCE ON TYPICAL DETOUR SIGN LAYOUT AND SPACING. SEE PROJECT DETOUR SIGNING SHEETS FOR SPECIFIC DETAILS FOR EACH PROJECT.

MATCH POINT

DETAIL F
DETOUR SIGNING

GENERAL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS, MODIFY EXISTING SIGNS WHERE POSSIBLE.

THE SPACING BETWEEN TRAFFIC CONTROL AND DETOUR SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE", SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

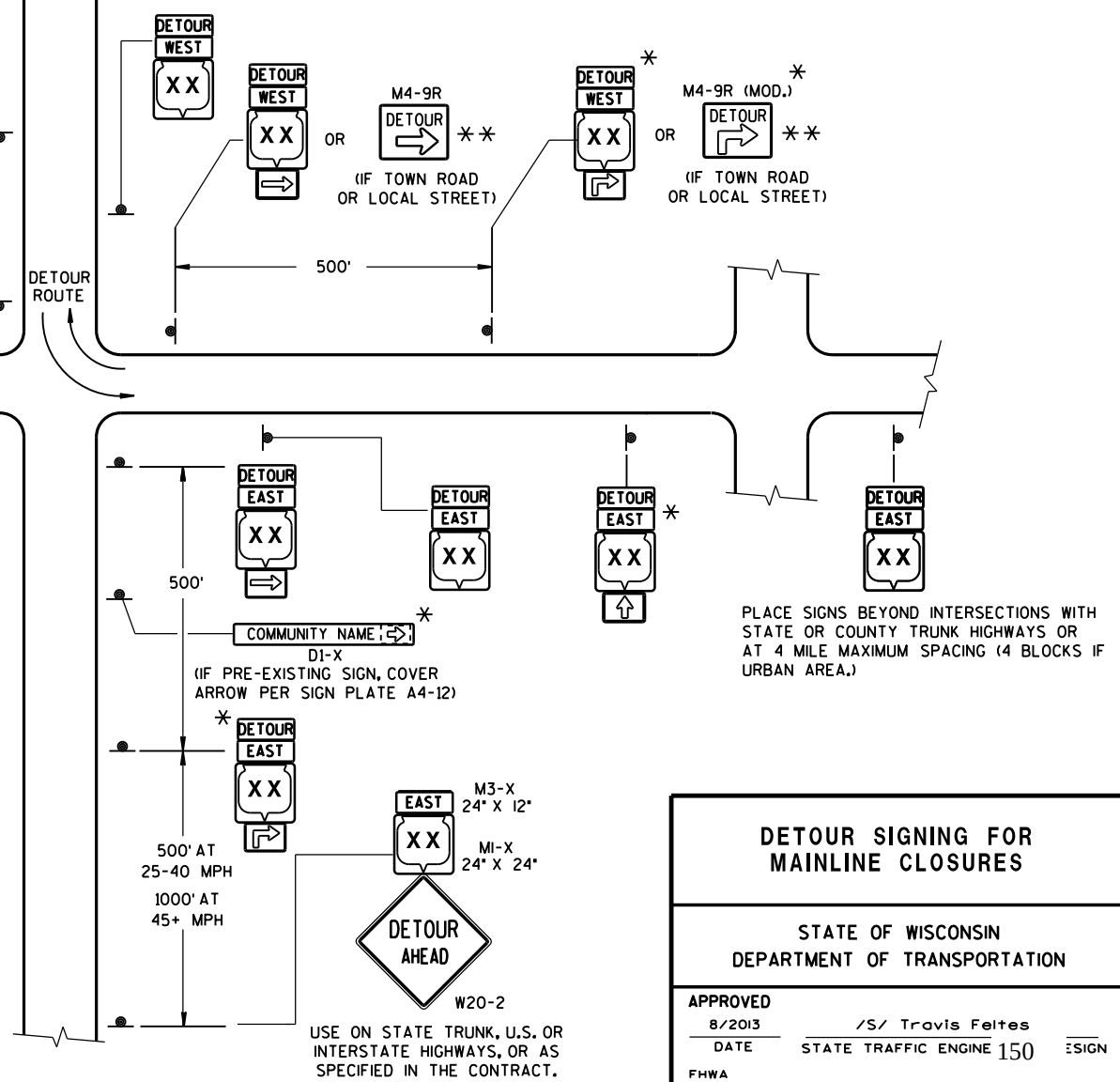
"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGN SIZES SHALL BE AS FOLLOWS:

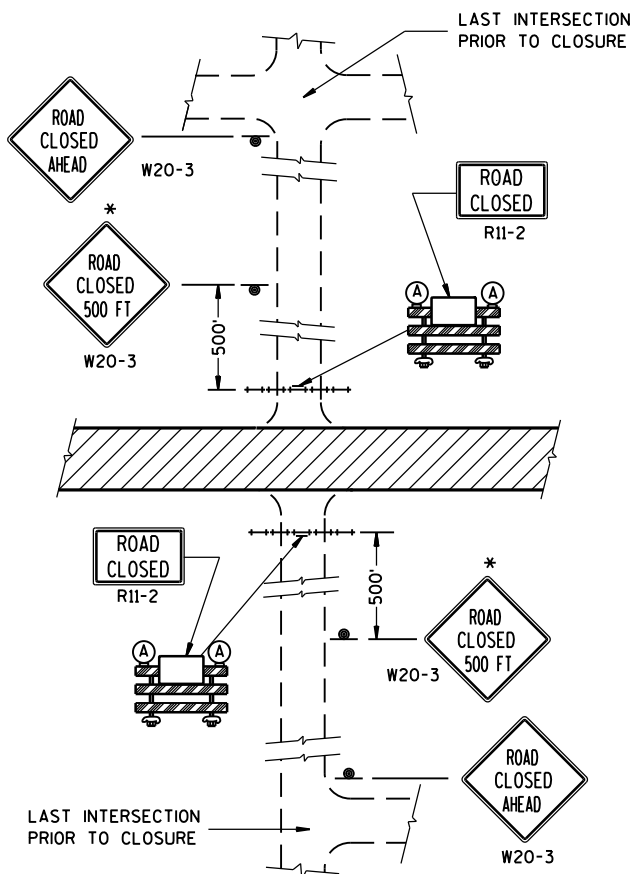
- M3-X SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS.)
- M4-8 SHALL BE 24" X 12". (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS.)
- M1-4, M1-5A, AND M1-6 SHALL BE 24" X 24". (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS.)
- M05-1 AND M06-1 SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS.)
- M4-9 SHALL BE 30" X 24".
- M4-8a SHALL BE 24" X 18".
- G20-51 SHALL BE 60" X 24".
- W20-2 SHALL BE 48" X 48".
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

* OPTIONAL SIGNS. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS.

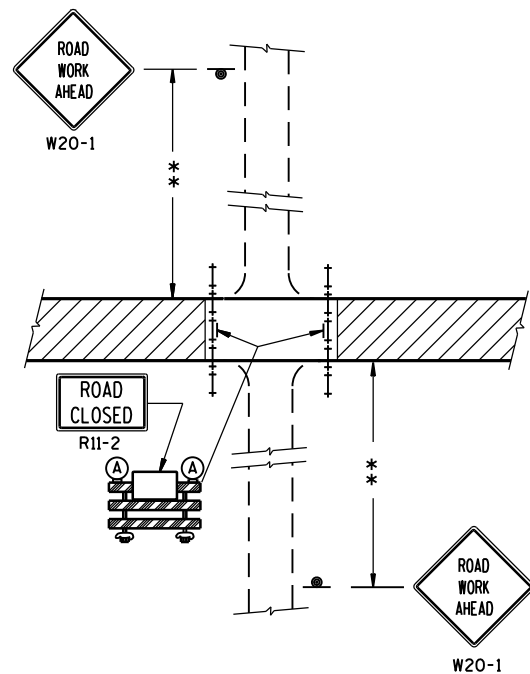
** FOR A TOWN ROAD OR LOCAL STREET DETOURED ONTO A STATE TRUNK HIGHWAY, PLACE A ROAD NAME PLAQUE ABOVE THE M4-9 SIGN AS SPECIFIED IN THE CONTRACT.



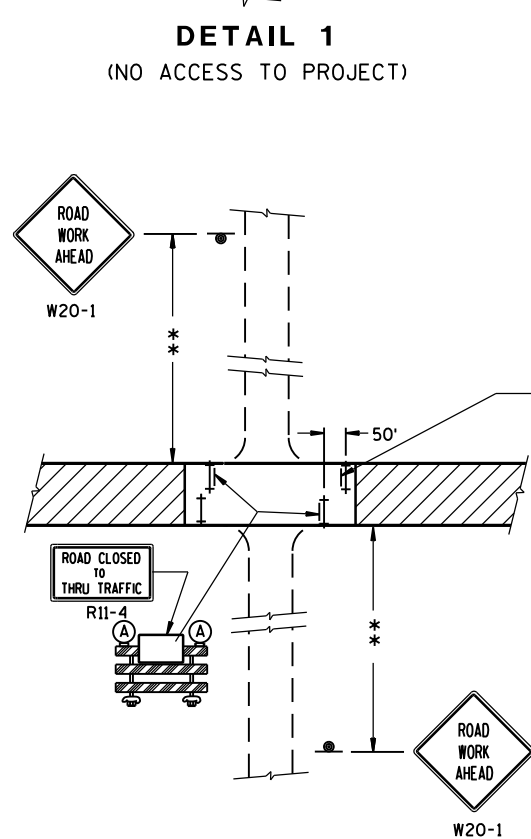
DETOUR SIGNING FOR MAINLINE CLOSURES	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 8/2013 DATE	/S/ Travis Feltes STATE TRAFFIC ENGINE 150 SIGN
FHWA	



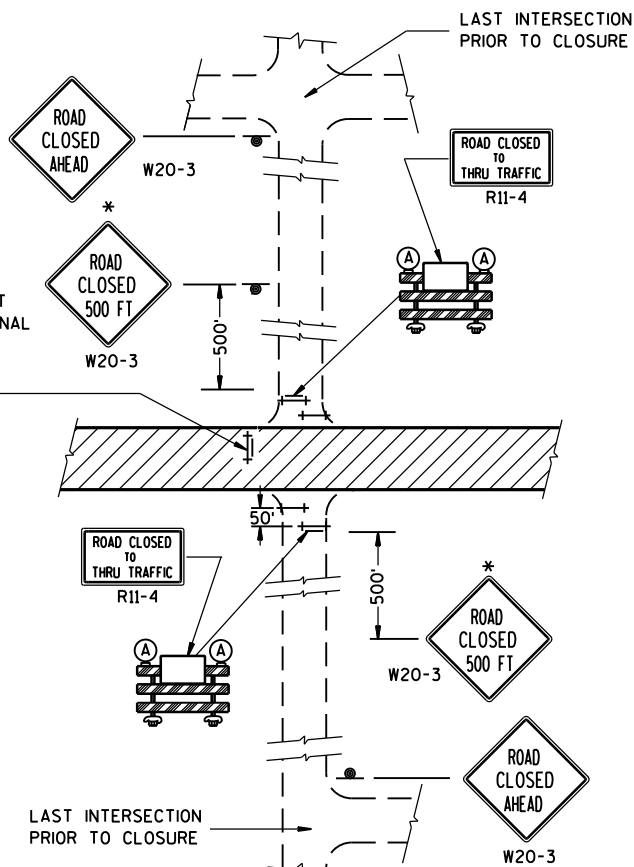
DETAIL 1
(NO ACCESS TO PROJECT)



DETAIL 2
(PUBLIC CROSS-TRAFFIC MAINTAINED.
NO ACCESS TO PROJECT).



DETAIL 3
(PUBLIC CROSS-TRAFFIC MAINTAINED. CONTRACTOR,
LOCAL BUSINESS AND RESIDENT ACCESS).



DETAIL 4
(CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL D FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3 AND R11-4 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:

R11-2 SHALL BE 48" X 30".

R11-4 AND R11-3 SHALL BE 60" X 30".

*OMIT THE "ROAD CLOSED 500 FT." SIGN IF
THE LAST INTERSECTION IS 500 FT. OR LESS
FROM THE WORK ZONE.

**500' MAX. OR AT LAST INTERSECTION
WHICHEVER IS CLOSER.

LEGEND

- ⊙ SIGN ON PERMANENT SUPPORT
- ⊢ TYPE III BARRICADE
- ⊢ TYPE III BARRICADE WITH ATTACHED SIGN
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- ▨ WORK AREA

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

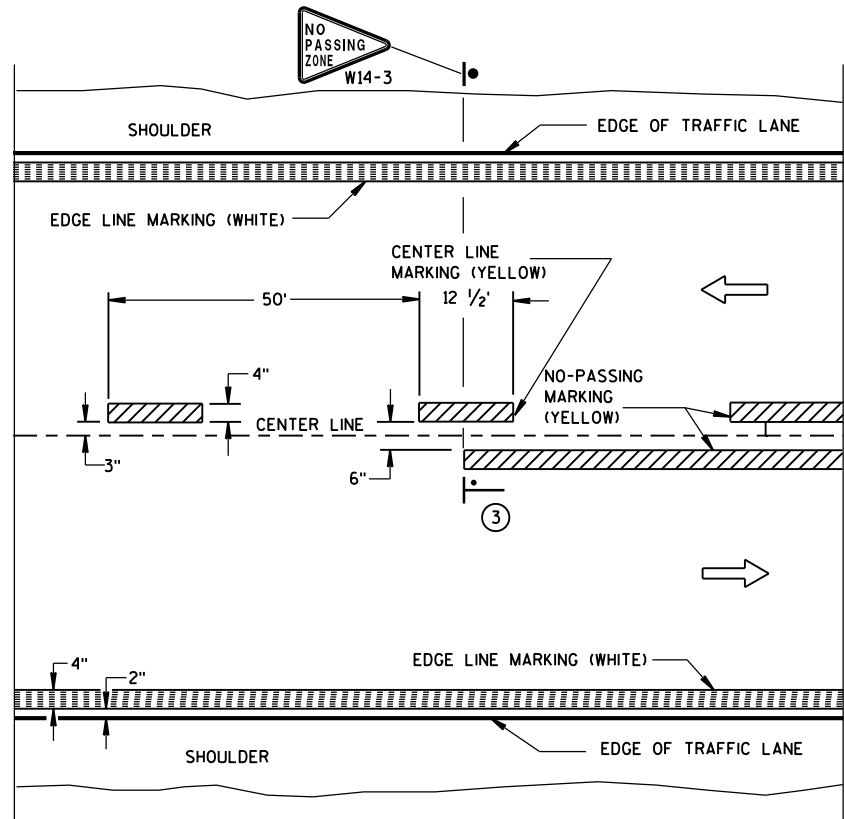
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

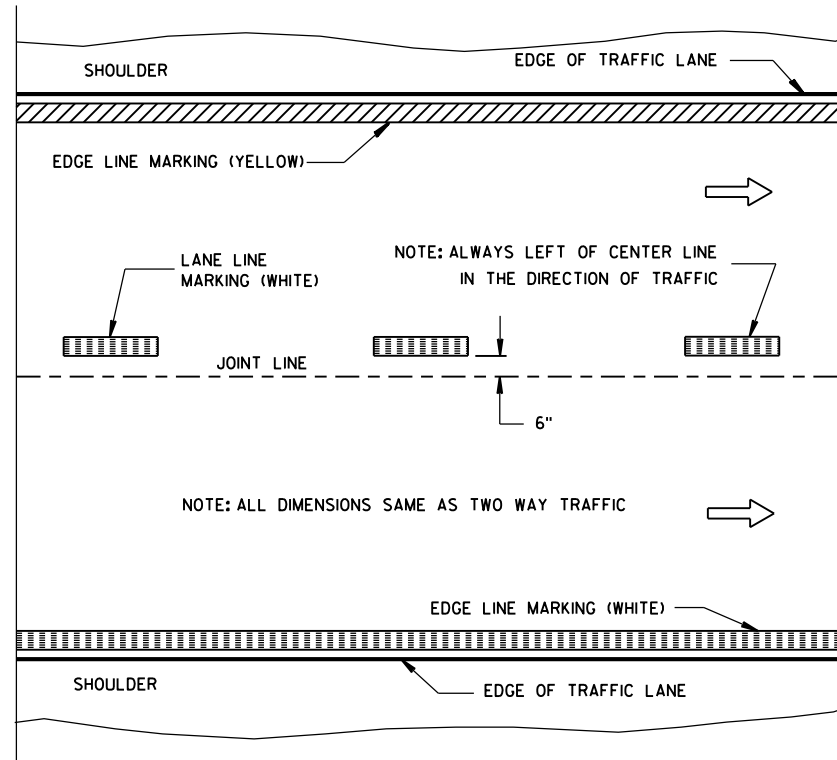
8/2013 /S/ Travis Feltes

DATE STATE TRAFFIC ENGINE 151

FWHA SIGN

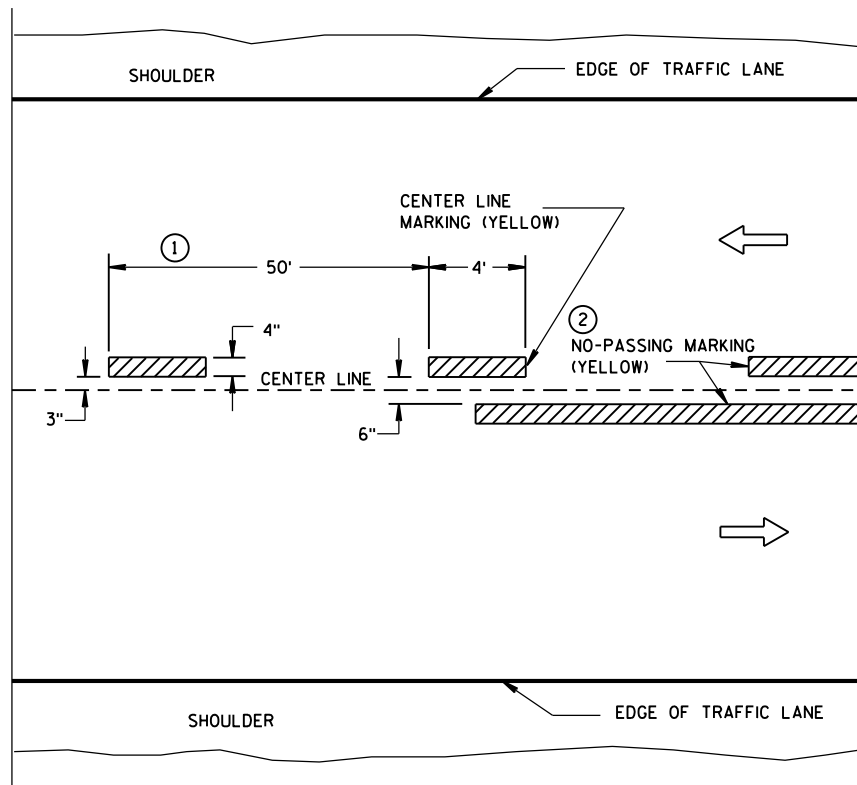


TWO WAY TRAFFIC

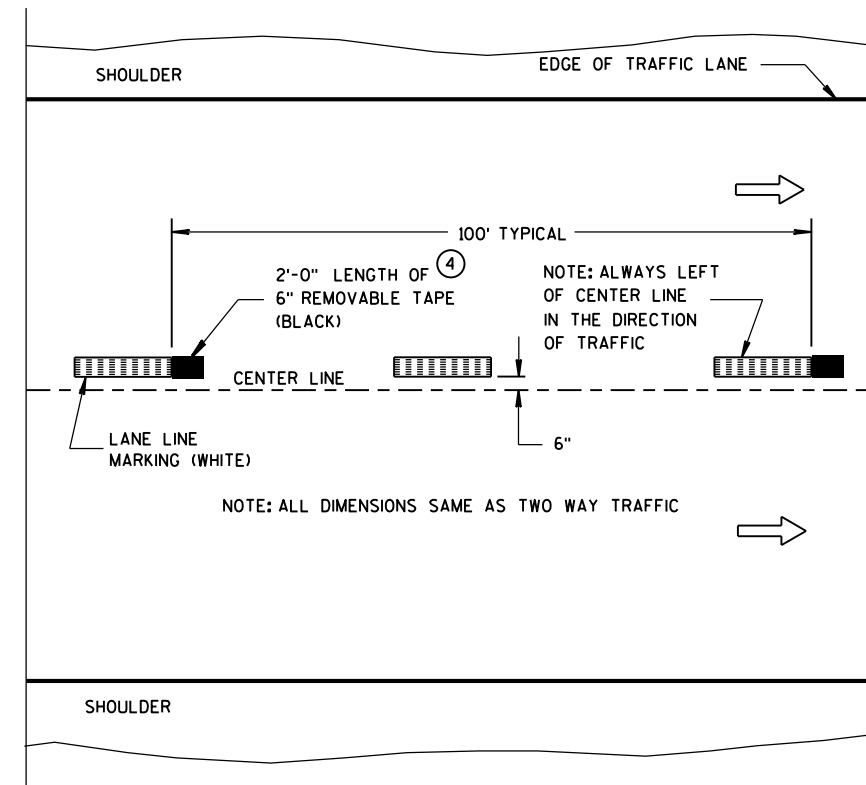


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY (INTERMEDIATE) PAVEMENT MARKING
(SHOWS CYCLE FOR TEMPORARY CENTER LINE OR TEMPORARY LANE LINE MARKING)

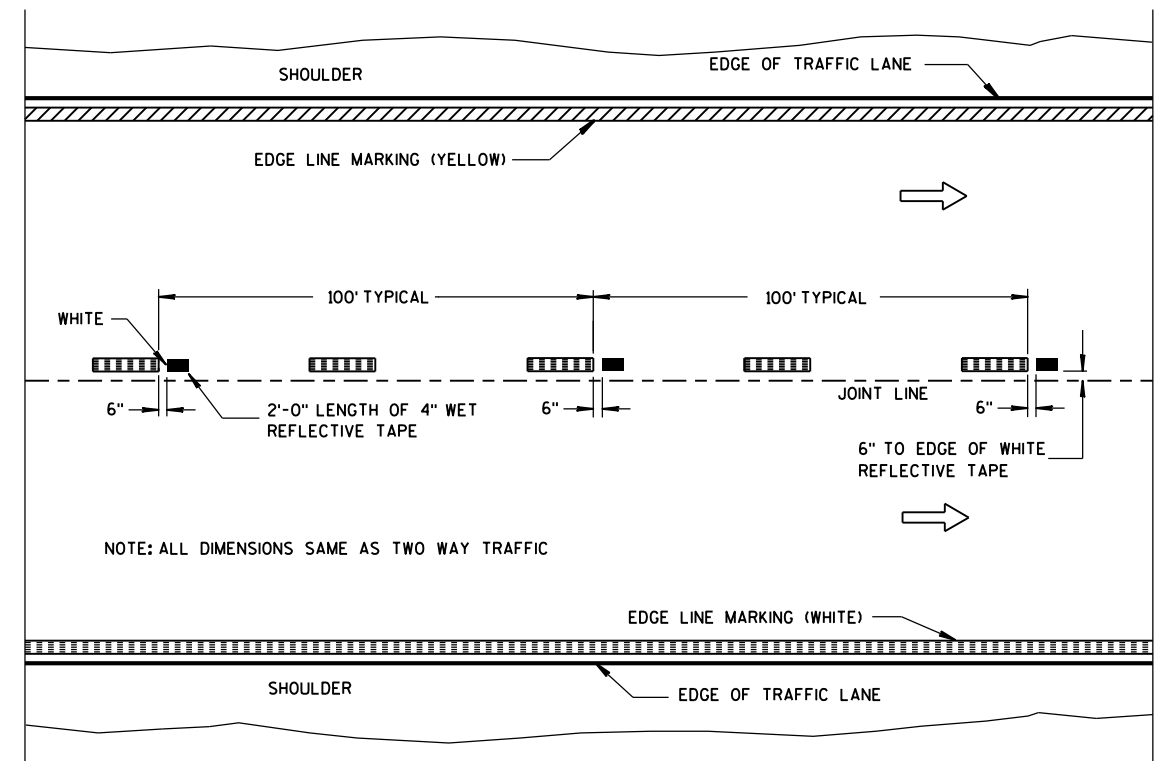
GENERAL NOTES

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

- 1 HALF CYCLE LENGTHS (25'±) WITH 2' MINIMUM STRIPE LENGTHS SHALL BE PROVIDED ON ROADWAYS (INCLUDING TEMPORARY TRAVELED WAYS) WITH REVERSE CURVATURE, CURVATURE OF OVER 5 DEGREES OR WHEN DIRECTED BY THE ENGINEER TO MARK UNUSUAL ALIGNMENT OF THE TRAVELED WAY.
- 2 NO PASSING ZONE TEMPORARY PAVEMENT MARKING IS REQUIRED TO BE PLACED, WHERE APPROPRIATE, ALONG WITH CENTERLINE TEMPORARY PAVEMENT MARKING WHEN A SAME DAY PERMANENT PAVEMENT MARKING ITEM IS INCLUDED IN THE CONTRACT.
- 3 NO PASSING ZONE MARKINGS ARE PLACED ACCORDING TO "T" MARKINGS. IF EXISTING NO PASSING ZONE W14-3 SIGNS ARE BEYOND 50 FEET IN EITHER DIRECTION, THE SIGNS SHALL BE MOVED TO THE "T" MARKINGS.
- 4 CONCRETE ONLY.

NOTE

ARROW SYMBOL (→) SHOWS DIRECTION OF TRAVEL



WET REFLECTIVE TAPE SUPPLEMENT TO
SPRAYED OR NON WET REFLECTIVE TAPE LANE LINE

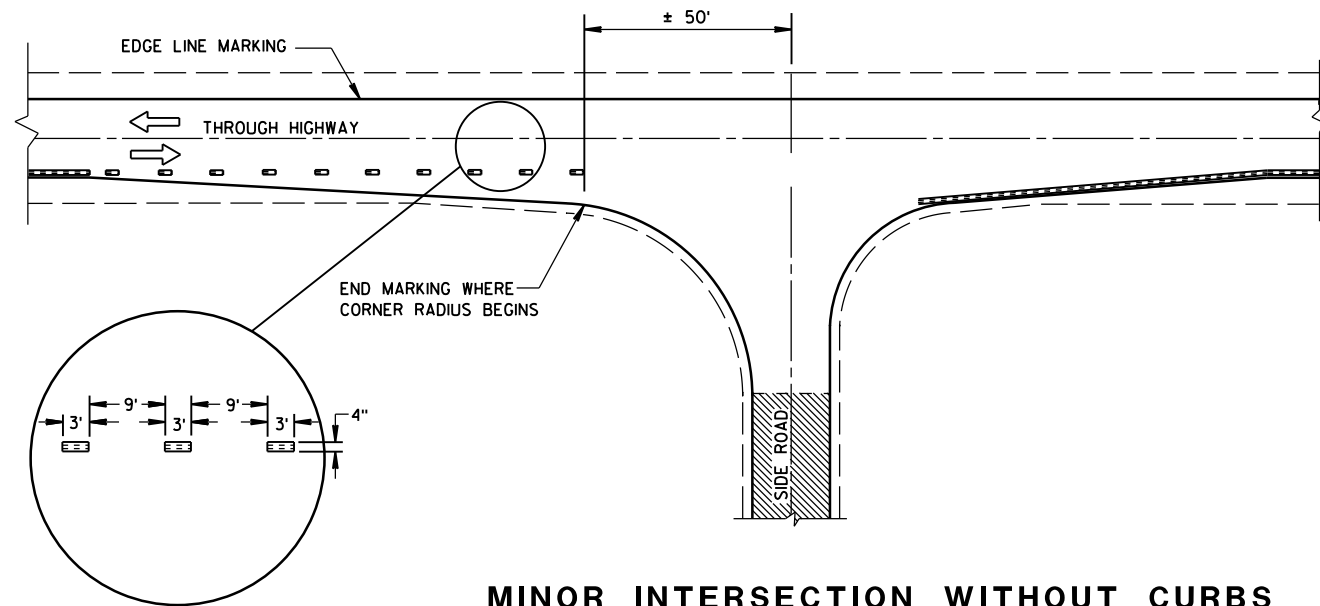
LEGEND

- "T" MARKING
- POST MOUNTED SIGN

PAVEMENT MARKING
(MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

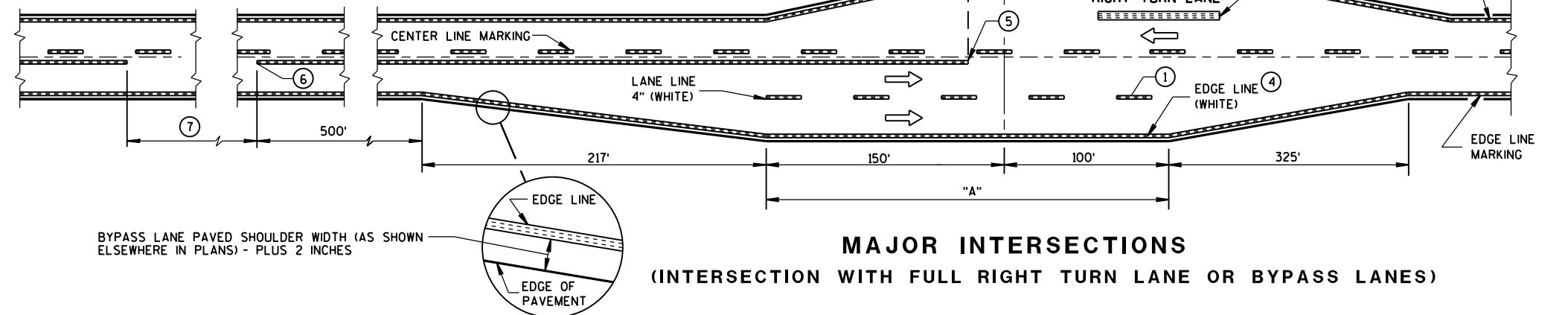
APPROVED
5-13-2013 /S/ Travis Feltes
DATE STATE TRAFFIC E 152
FHWA



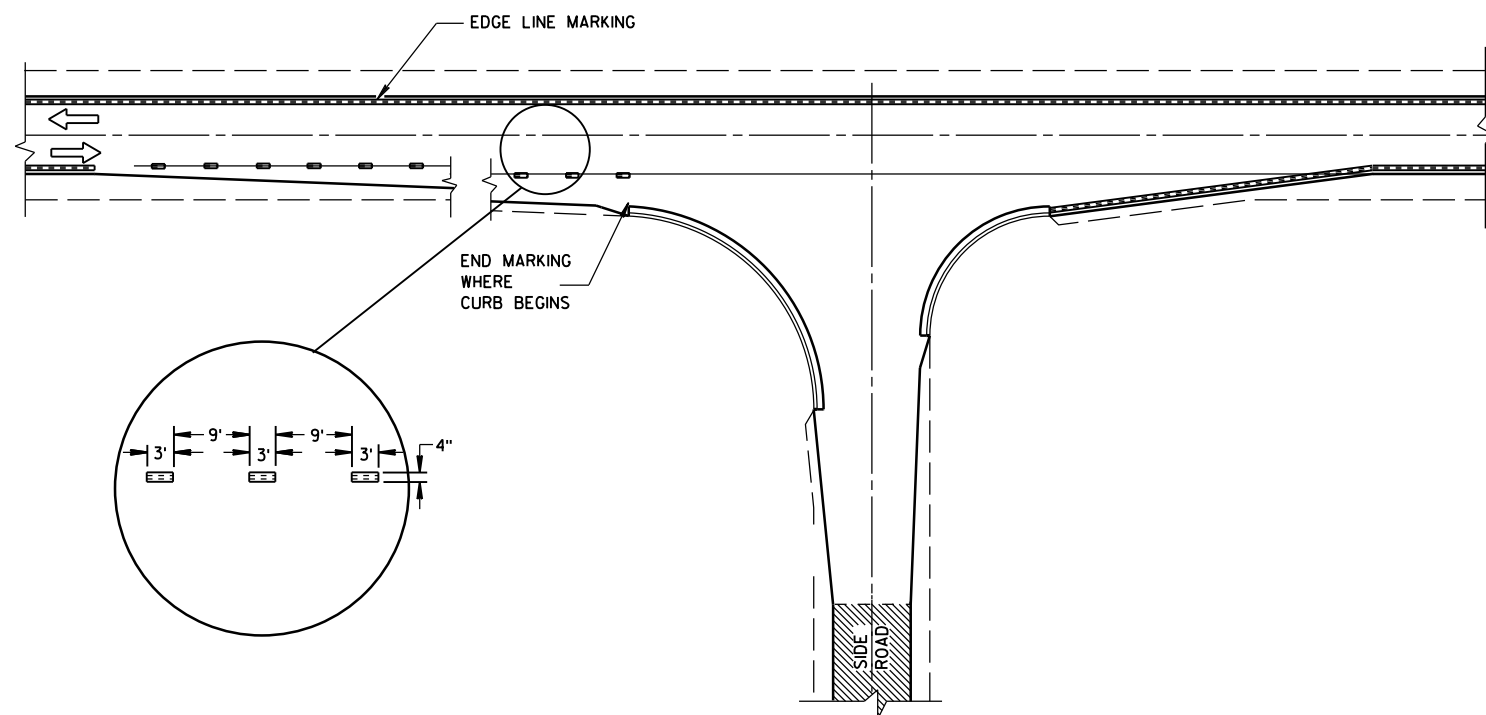
MINOR INTERSECTION WITHOUT CURBS

⑦

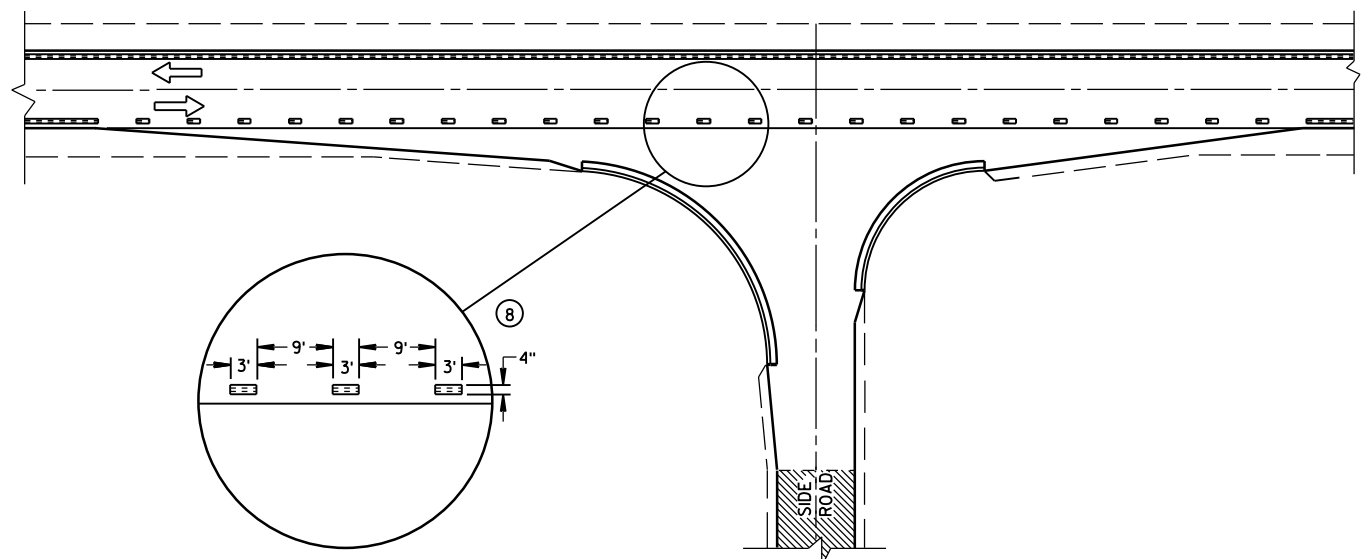
POSTED SPEED (MPH)	MINIMUM DISTANCE BETWEEN ZONES (FEET)
25 - 30	528
35 - 40	528
45 - 50	686
55	792



MAJOR INTERSECTIONS
(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANES)



MINOR INTERSECTION WITH CURBS
(TYPICAL MARKING)



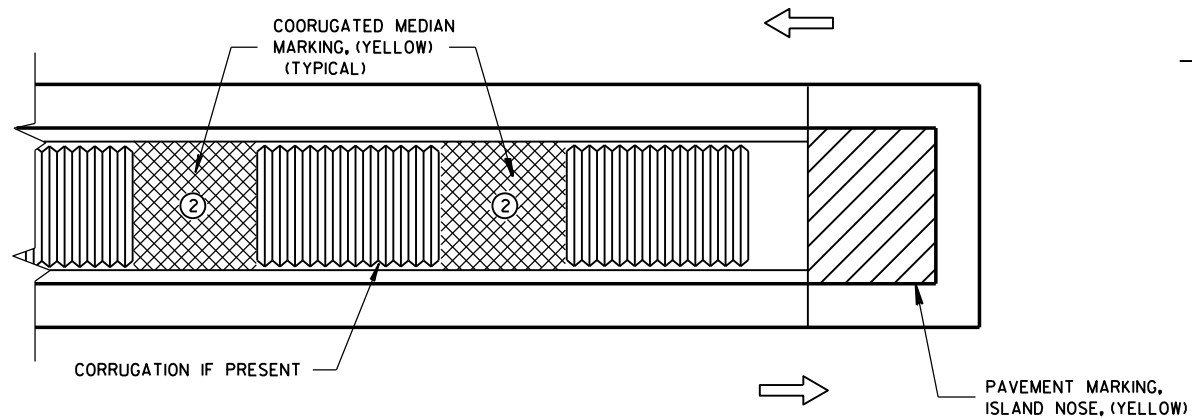
MINOR INTERSECTION WITH CURBS
③ (FOR SPECIAL CONDITIONS AS SPECIFIED)

GENERAL NOTES

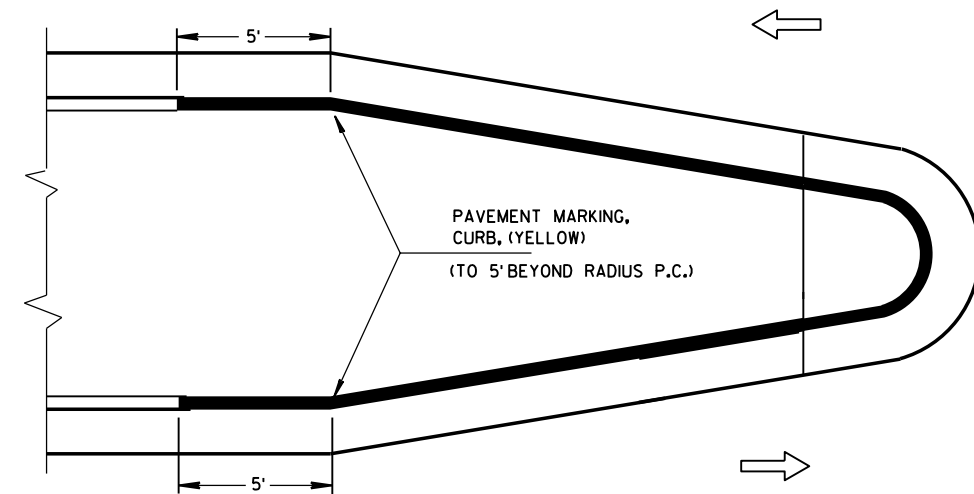
- EDGE LINES SHALL BE OMITTED THROUGH INTERSECTIONS. EDGE LINES SHALL BE CONTINUED THROUGH DRIVEWAYS.
- ① WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.
 - ② WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.
 - ③ ALTERNATIVE MARKING SHALL BE PROVIDED WHEN SPECIFIED IN THE 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

PAVEMENT MARKING
(INTERSECTIONS)

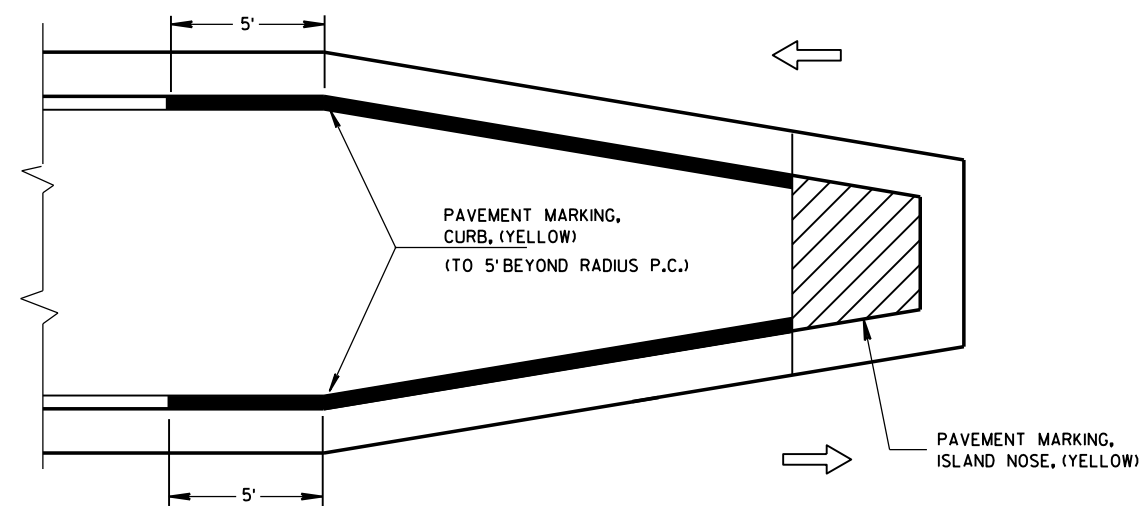
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION 153



MEDIAN ISLAND WITH SQUARE BLUNT NOSE

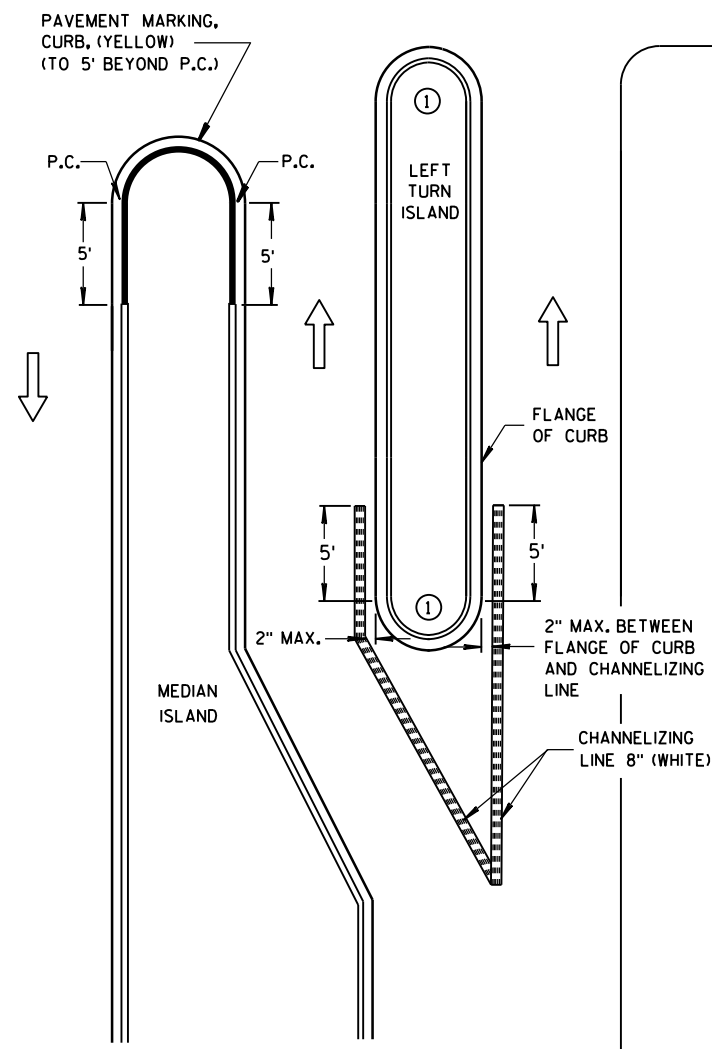


MEDIAN ISLAND WITH ROUND BLUNT NOSE



MEDIAN ISLAND WITH SLOPED NOSE

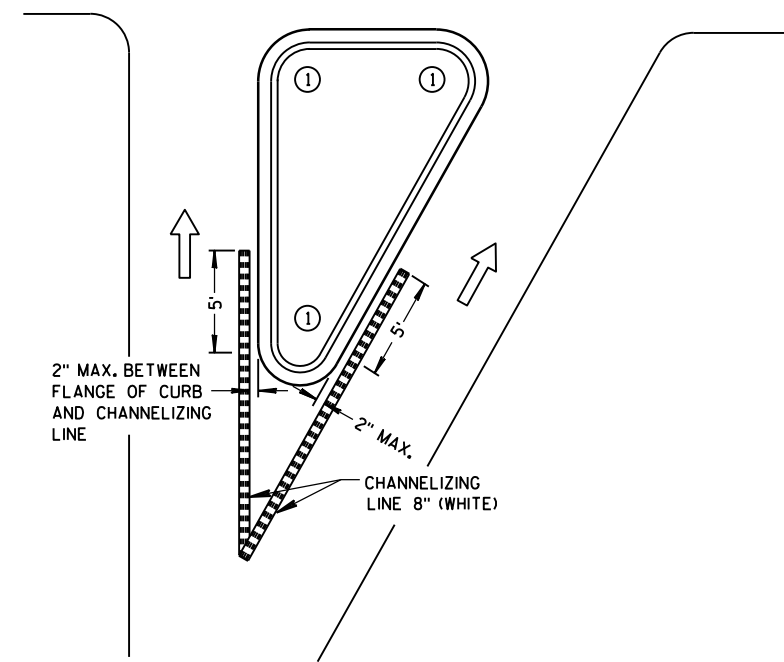
TYPICAL PLACEMENT OF PAVEMENT MARKING ON MEDIAN ISLANDS



LEFT TURN & MEDIAN ISLAND

GENERAL NOTES

- DO NOT MARK CURB NOSES THAT SEPARATE LANES OF TRAFFIC TRAVELING IN THE SAME DIRECTION.
- WHEN CONCRETE CORRUGATED MEDIAN IS CONSTRUCTED TO SEPARATE TRAFFIC OPERATING IN THE OPPOSING DIRECTION YELLOW PAVEMENT MARKING SHALL BE APPLIED TO THE FLAT PORTION OF THE CONCRETE CORRUGATED MEDIAN. THE ITEM OF PAVEMENT MARKING, CONCRETE CORRUGATED MEDIAN, WILL BE MEASURED IN PLACE AND ACCEPTED IN ACCORDANCE WITH THE CONTRACT AND PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT.



RIGHT TURN ISLAND

LEGEND

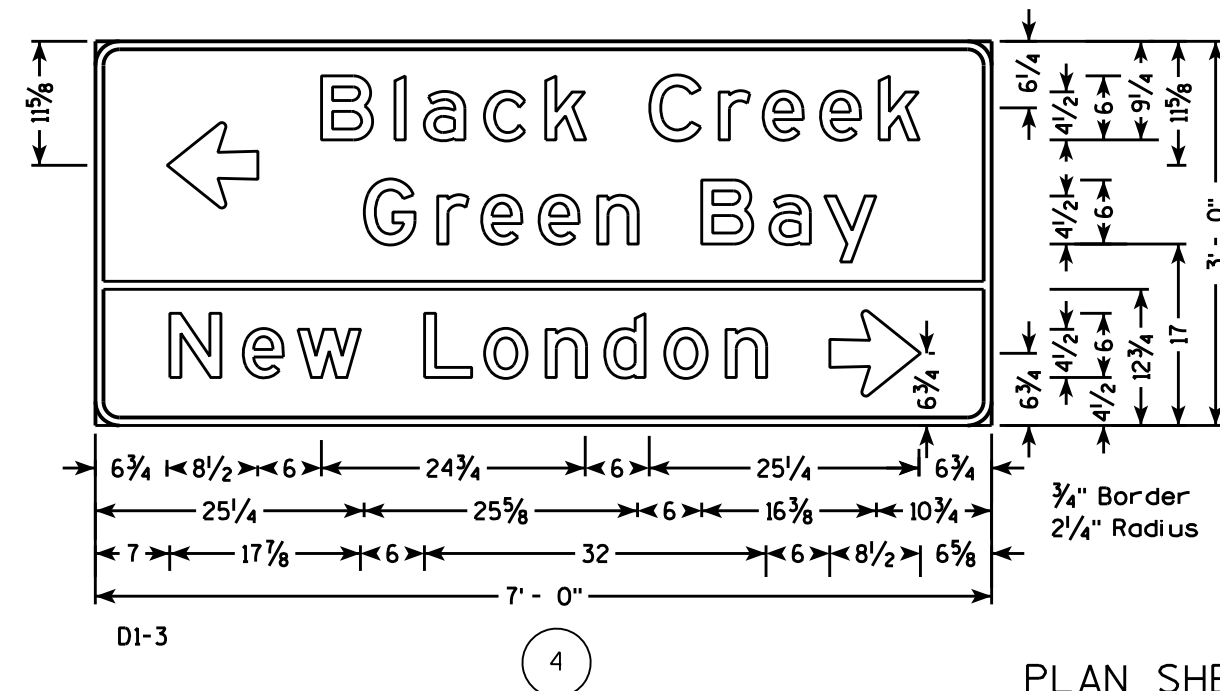
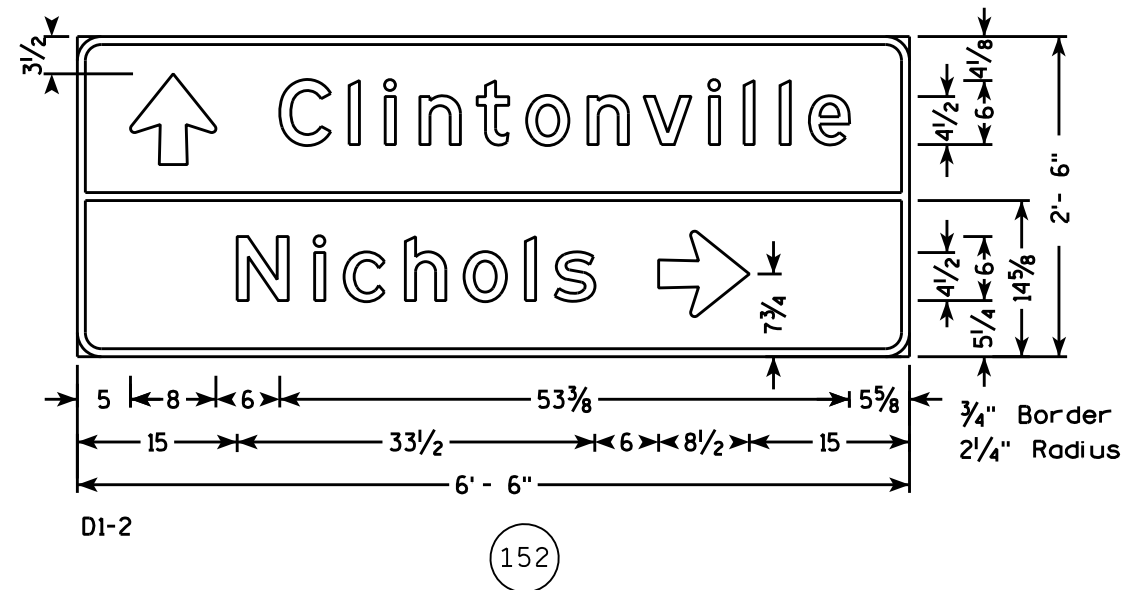
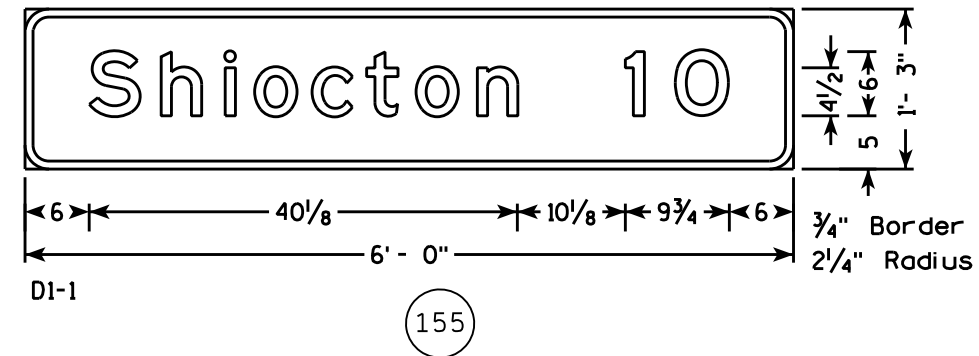
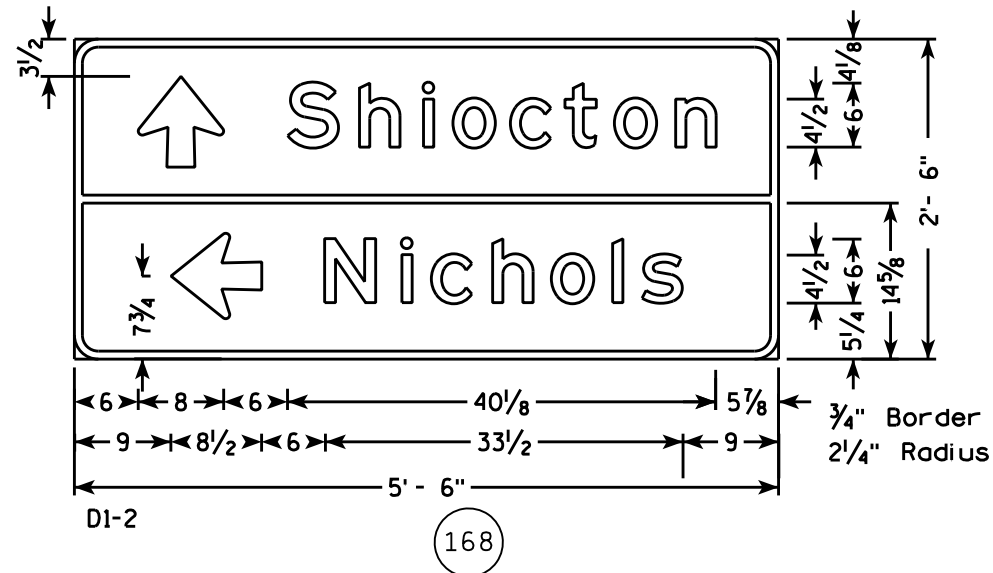
- ISLAND NOSE MARKING
- CURB MARKING
- CORRUGATED MEDIAN MARKING
- DIRECTION OF TRAVEL

PAVEMENT MARKING (ISLANDS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION 154

NOTES

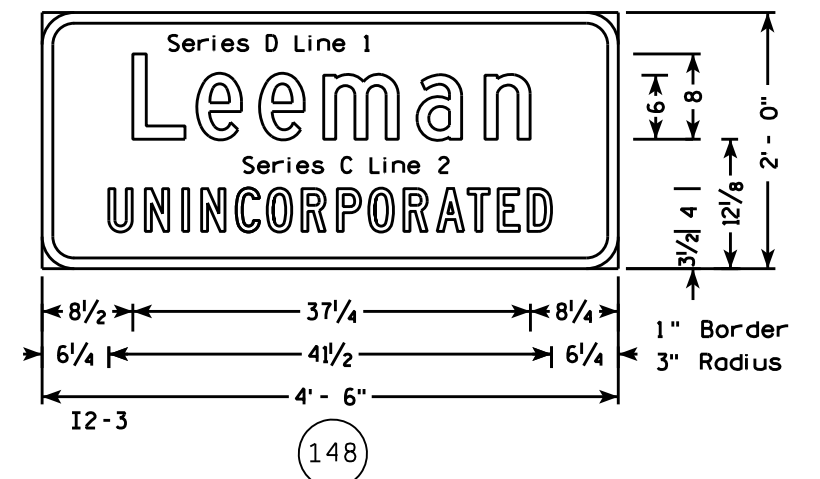
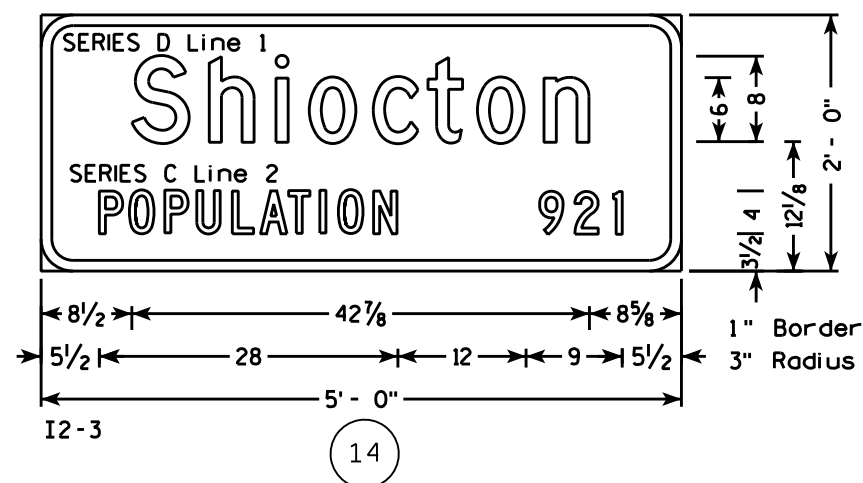
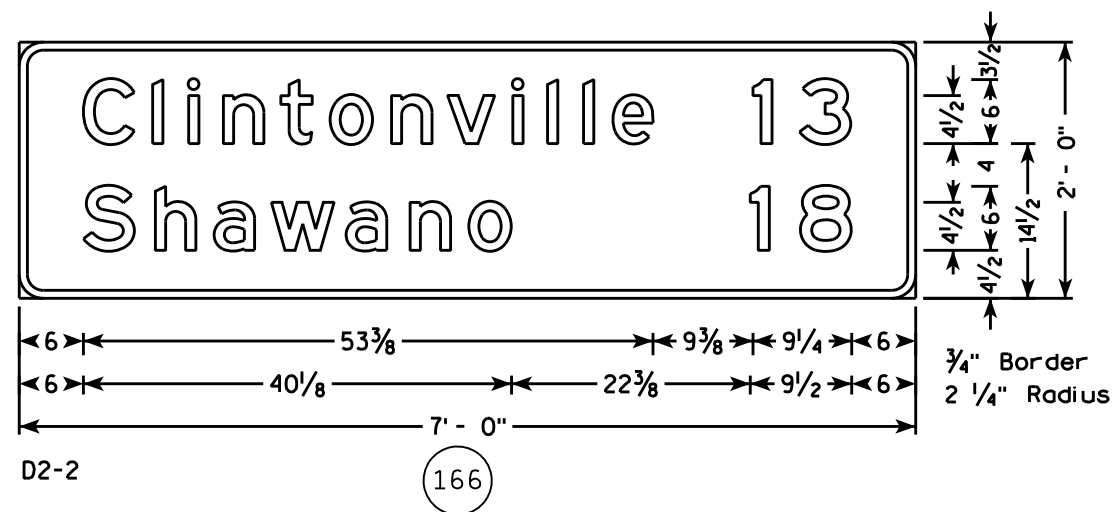
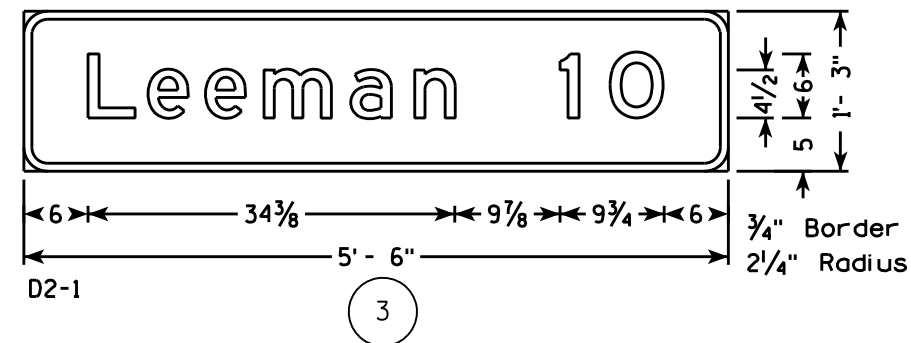
1. All Signs Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - GREEN
Message - WHITE
3. Message Series - E except as SHOWN



PLAN SHEET PRODUCED
BY WISDOT-NE REGION

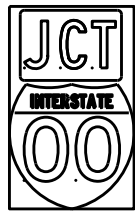
NOTES

1. All Signs Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - GREEN
Message - WHITE
3. Message Series - E except as SHOWN

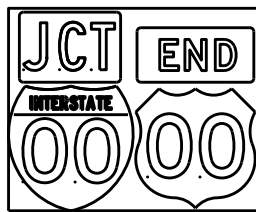


PLAN SHEET PRODUCED
BY WISDOT-NE REGION

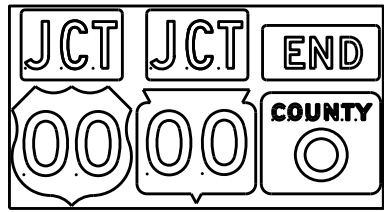
TYPICAL ASSEMBLIES



J1-1



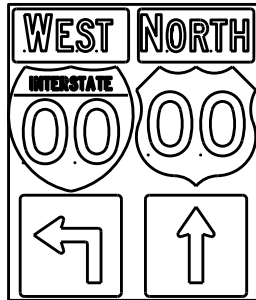
J1-2



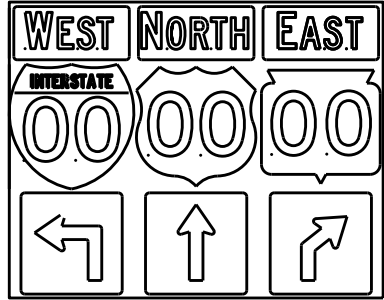
J1-3



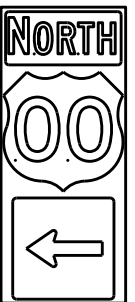
J2-1



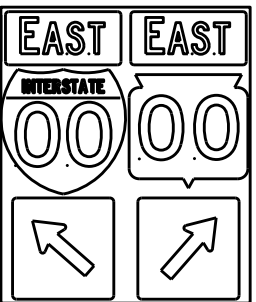
J2-2



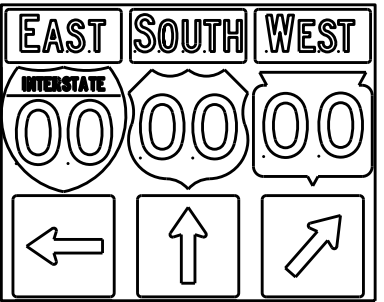
J2-3



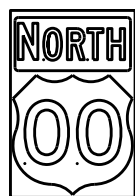
J3-1



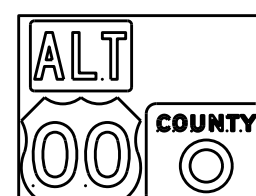
J3-2



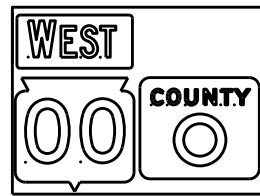
J3-3



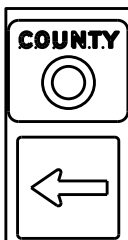
J4-1



J4-2



J4-2



J13-1



J12-1



J32-1



J33-1



J23-1

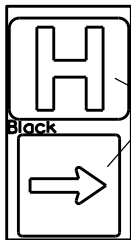


J22-1



JV

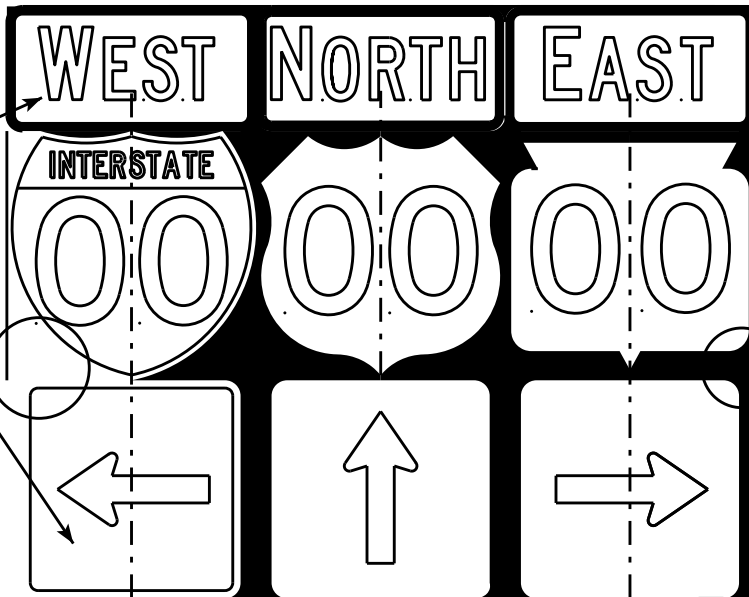
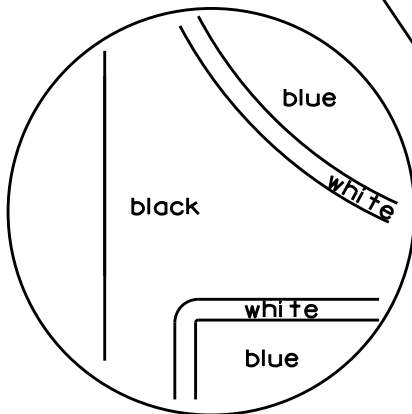
(Typical Vertical J-Assembly
See Note 10 and 11)



JH-1

Blue Background

[blue background
with interstate]



[black background]

ROUTE MARKERS & COMPONENTS
IN TYPICAL ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
For State Traffic Engineer

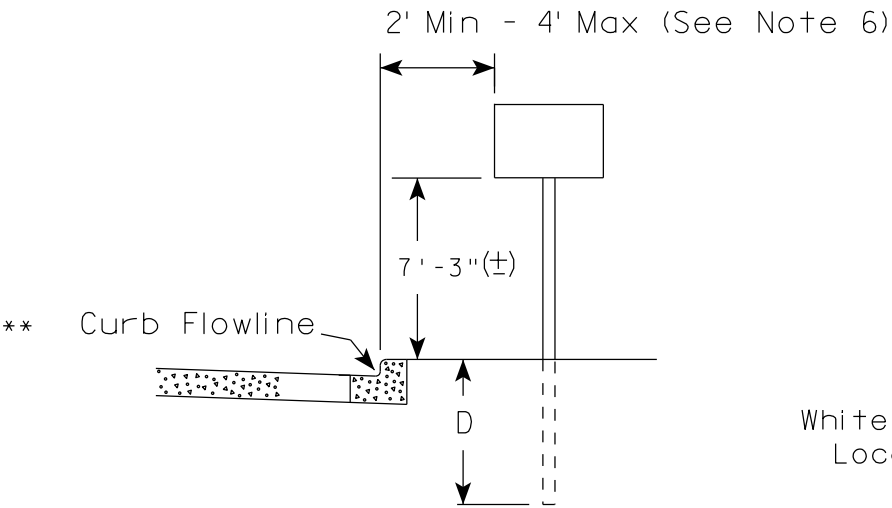
DATE 2/06/14 PL 157 A2-1S.8

SHEET NO: E

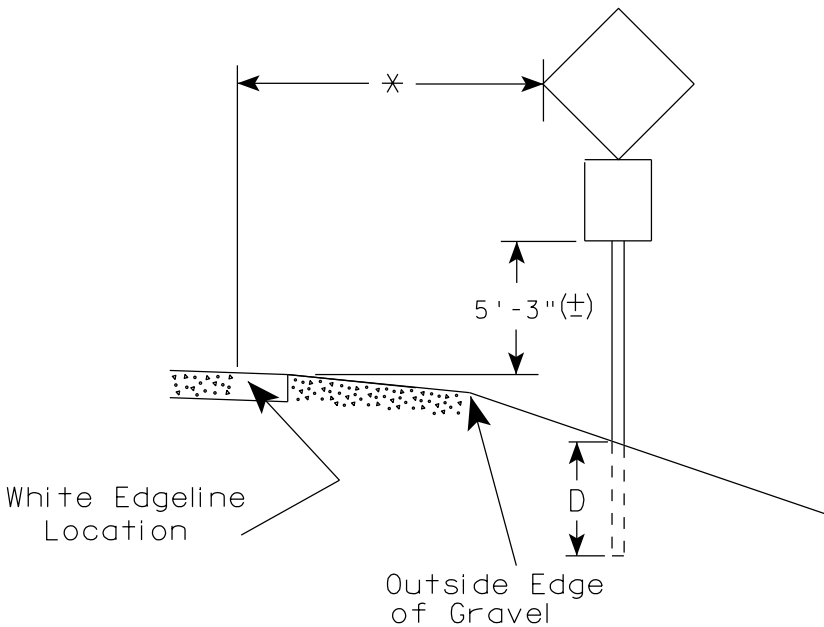
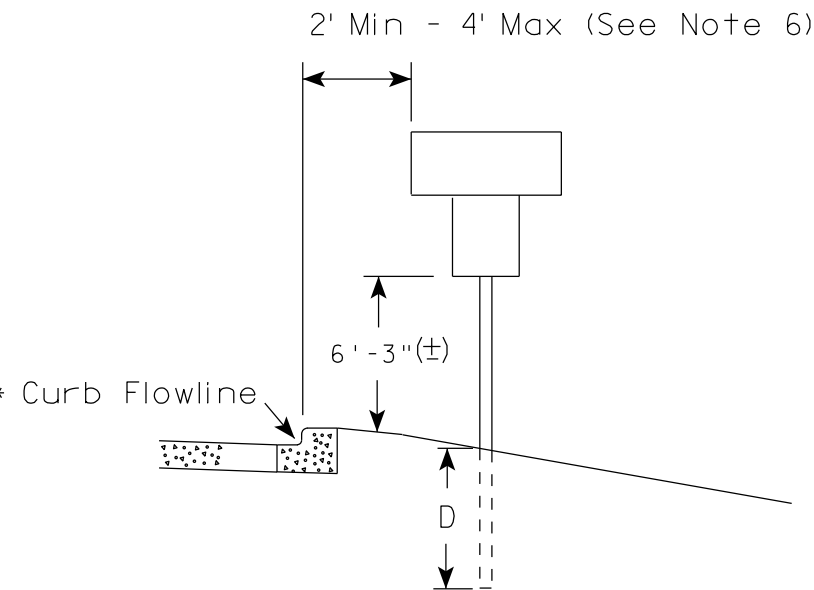
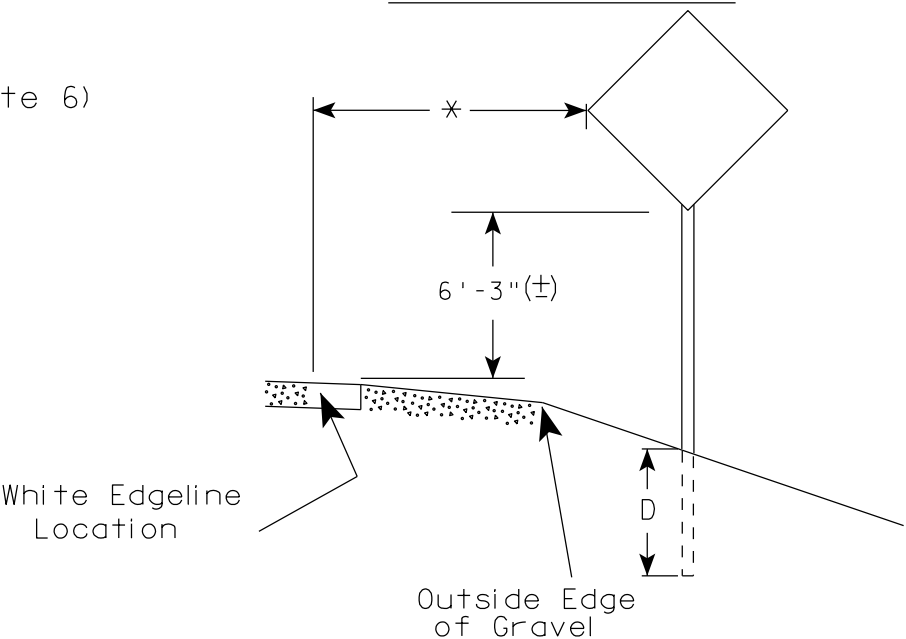
NOTES

1. Signs are Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Black Non-reflective
Message - see Note 5
3. Message Series - See Note 5
4. Corners shall be square or rounded if base material is plywood. If base material is metal the corners shall be rounded.
5. The colors and message spacing on each marker shall be according to the applicable route marker panel specifications.
6. Certain marker heads require the component pieces to be the same color. As an example, all the components used with an M1-1 Interstate marker shall be blue.
7. Single panel j-assemblies shall only be used with route marker shields that are same size. If the route marker shields are different size use multiple piece component.
8. Route assemblies that have 24 inch route shields and have dimensions greater than 48 inches (both vertical and horizontal) shall have one horizontal splice between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 inches or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
9. Route assemblies that have 36 inch shields and have dimensions greater than 48 inches (both vertical and horizontal) shall have two horizontal splices. One horizontal splice shall be between the cardinal direction and route shields and the other horizontal splice shall be between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
10. All Vertical J Assemblies are given a Sign Code of JV
11. For JV Assemblies that have a mixture of Interstate and non Interstate shields, arrows and cardinals shall be white on blue.

URBAN AREA



RURAL AREA (See Note 2)



POST EMBEDMENT DEPTH

Area of Sign Installation (Sq.Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

×× The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

GENERAL NOTES

1. Signs wider than 4 feet, 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on barrier wall, see A4-10 sign plate.
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. Minimum mounting height for J assemblies (A2-1S) 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 signs 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), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).

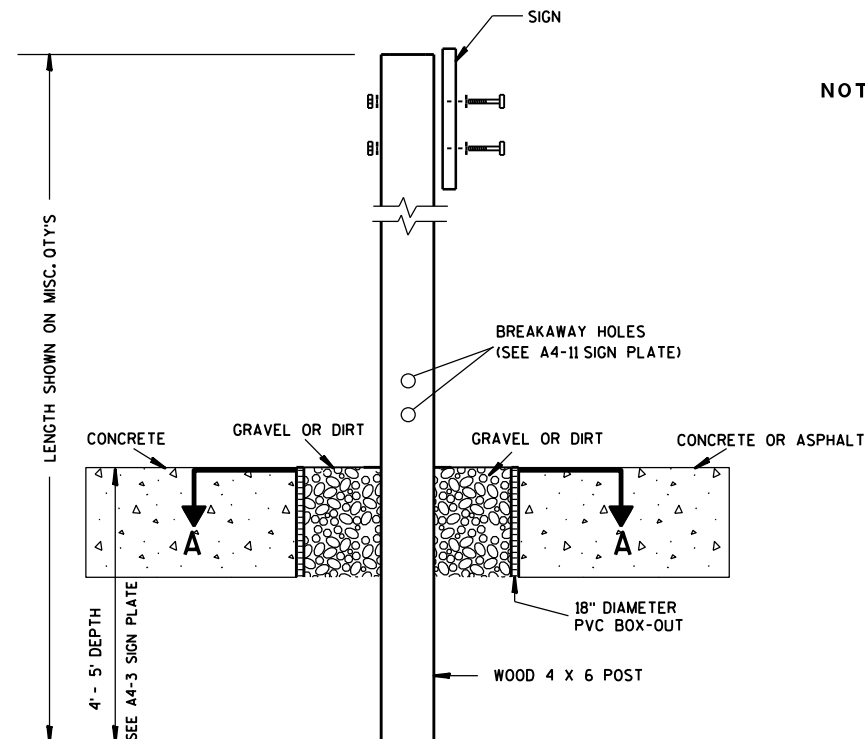
TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED
Matthew R. Rauch
for State Traffic Engineer

DATE 11/12/14 PLATE NO. A4-3.19

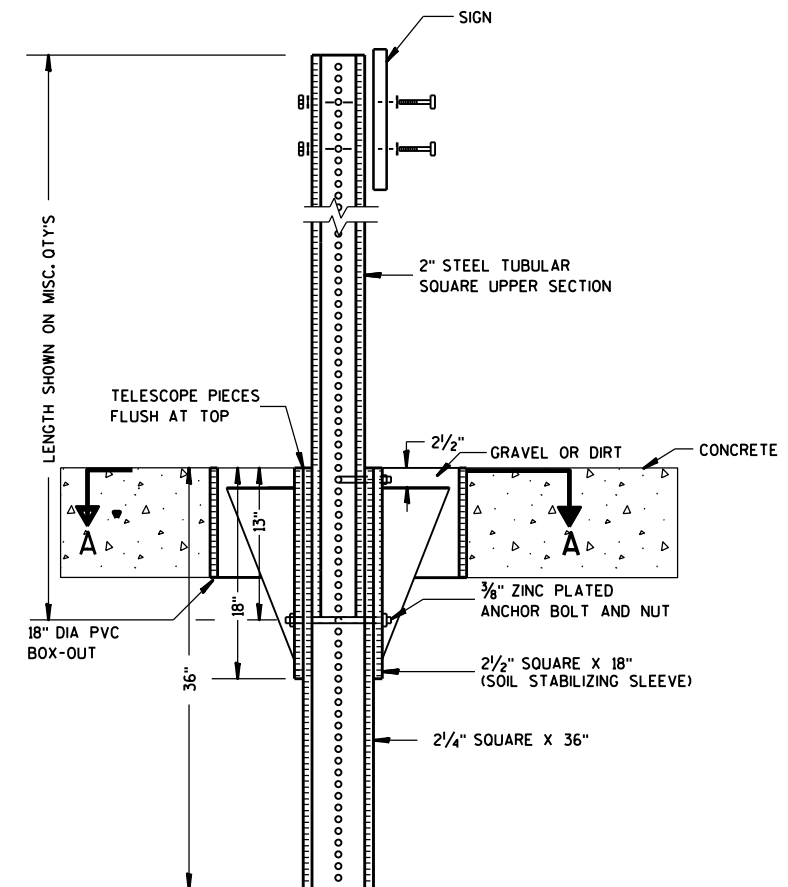
158



ELEVATION VIEW

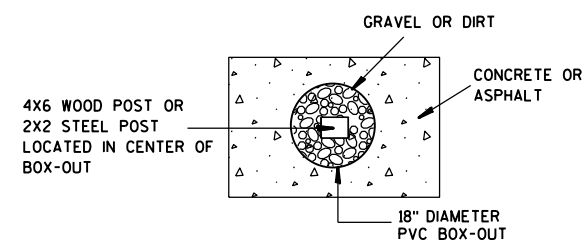
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

- NOTES: 1. ALL MATERIAL TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION
2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST
BOX-OUTS
A4-3B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 1/27/14 PLAT 159 A4-3B.1

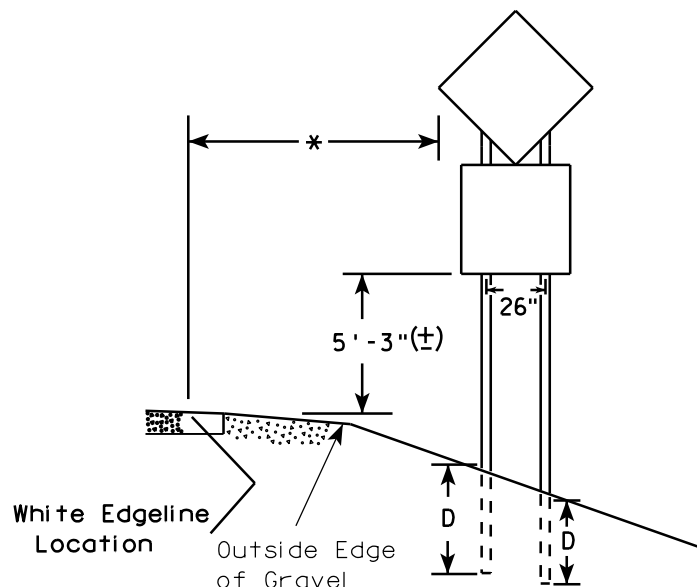
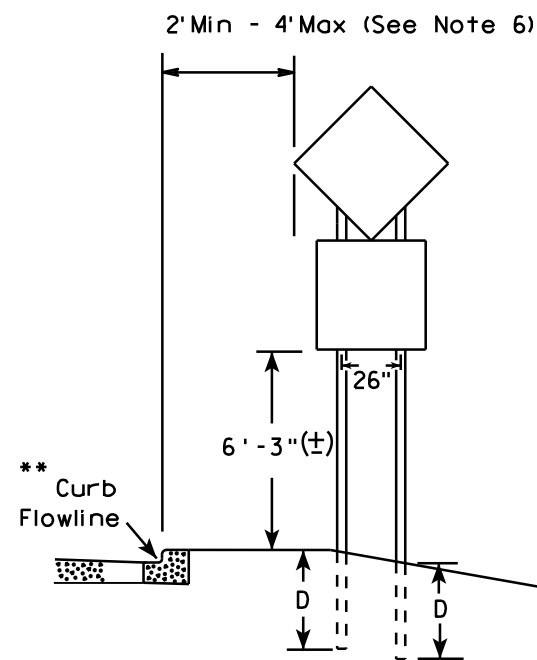
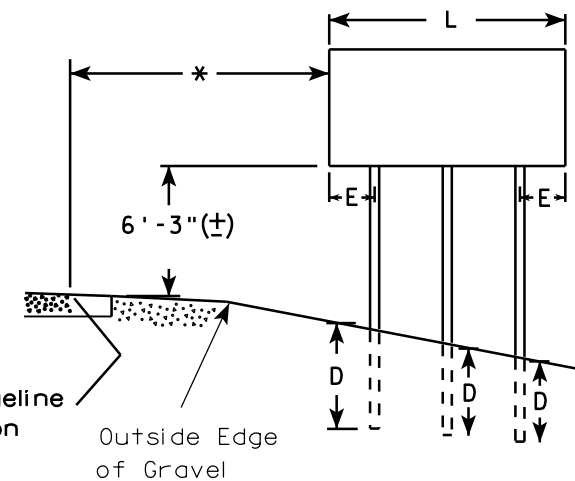
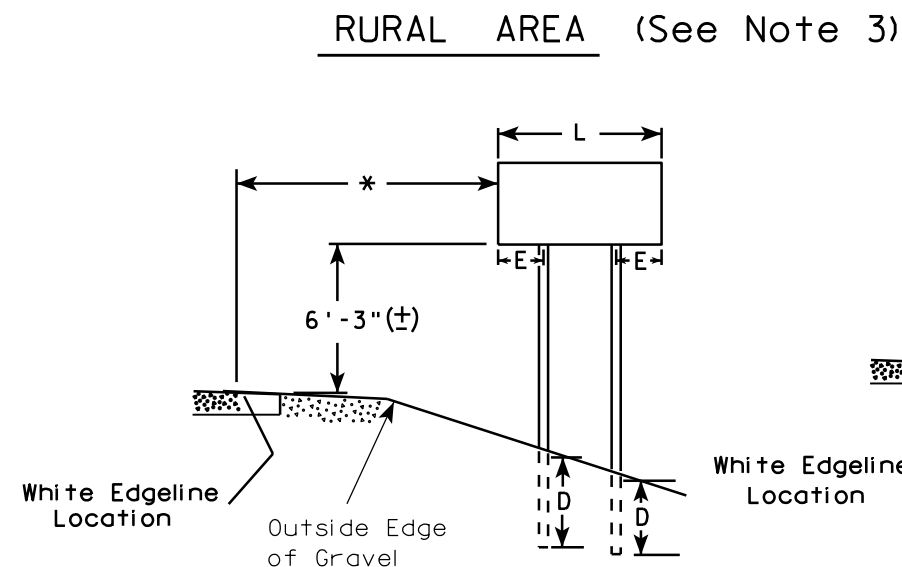
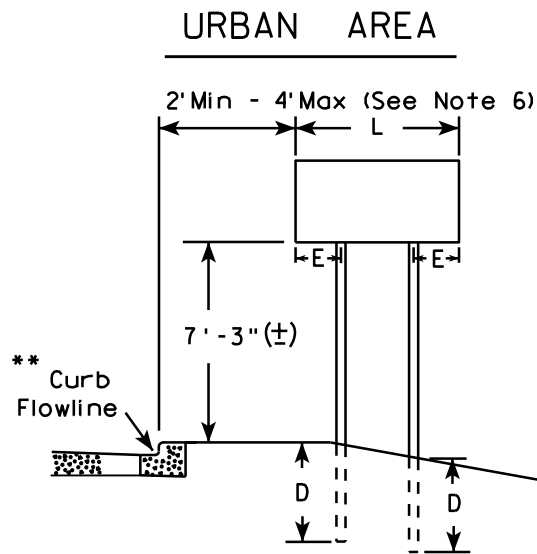
PROJECT NO:

HWY:

COUNTY:

SHEET NO:

E



- GENERAL NOTES**
1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
 2. See tables below for required number of posts.
 3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
 4. The (±) tolerance for mounting height is 3 inches.
 5. Minimum mounting height for J assemblies (A2-1S) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
 7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
 8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

*** See A4-3 sign plate for signs 4' or less in width or less than 20 S.F. in 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

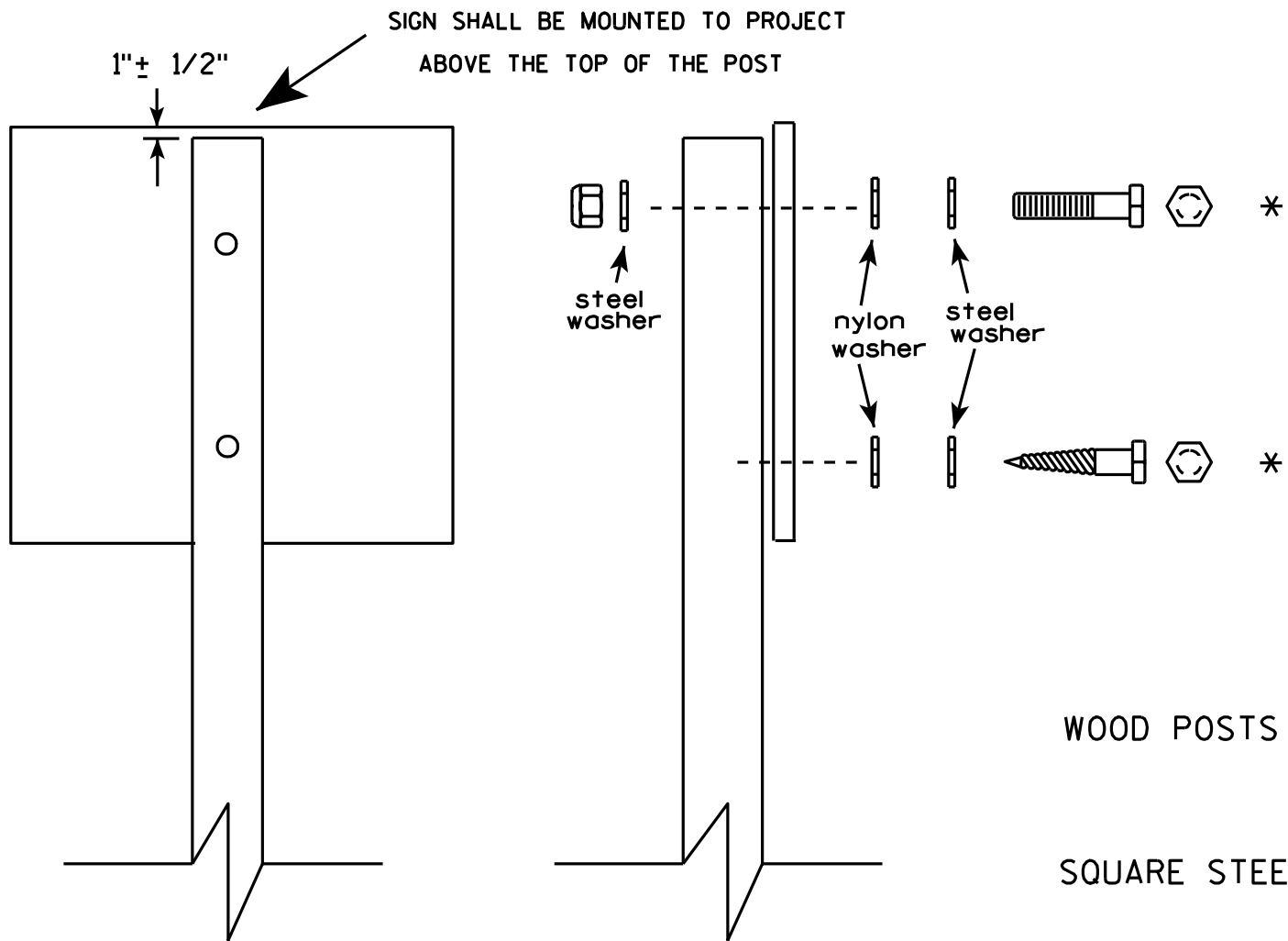
Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

TYPICAL INSTALLATION
OF TYPE II SIGNS
ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 11/12/14 PLATE NO. ^{A4-A} 13
160

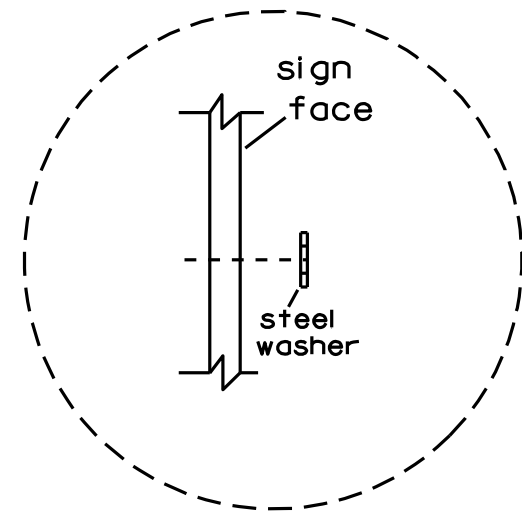


Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

- 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	<i>Matthew R. Rauch</i> For State Traffic Engineer
DATE 3/23/10	PLATE NO. A4-8.7

**2 1/4" SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH**

[illegible]

4" x 10" x 10 GA. —→
STEEL PLATE (CUT
AS SHOWN) WELDED
TO ALL FOUR CORNERS
OF TELESPAR TUBE

**2 1/2" SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH**

[illegible]

TECHNICAL DRAWING OF A SIGNPOST ASSEMBLY:

- Dimensions:**
 - Overall height: LENGTH SHOWN ON MISC. QTY'S
 - Section 1 height: 36"
 - Section 2 height: 18"
 - Section 3 height: 12"
- Components and Labels:**
 - SIGN
 - SEE SIGN PLATE A4-8 FOR BOLT WASHER, & NUT MATERIAL
 - 2" STEEL TUBULAR SQUARE UPPER SECTION
 - ALL HOLES $\frac{7}{16}$ " SPACED 1" C-C
 - ALL FOUR SIDES
 - $\frac{3}{8}$ " ZINC PLATED CORNER ANCHOR BOLT AND NUT
 - TELESCOPE PIECES FLUSH AT TOP
 - $\frac{3}{8}$ " ZINC PLATED ANCHOR BOLT AND NUT
 - 2 1/2" SQUARE X 18" (SOIL STABILIZING SLEEVE)
 - 2 1/4" SQUARE X 36"

3/8" ZINC PLATED CORNER
ANCHOR BOLT AND NUT

DIRECTION
OF TRAFFIC

SECTION A-A

Area of Sign Installation (Sq. Ft.)	Number of Required Posts
9 or less	1
Greater than 9 less than or equal to 18	2
Greater than 18 less than or equal to 27	3

Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

TUBULAR STEEL
SIGN POST
A4-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthae R Rauch

for State Traffic Engineer

DATE 2/05/15 PLATI 162 14-9.9

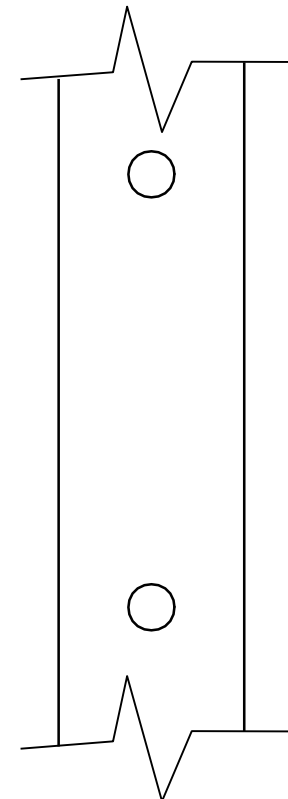
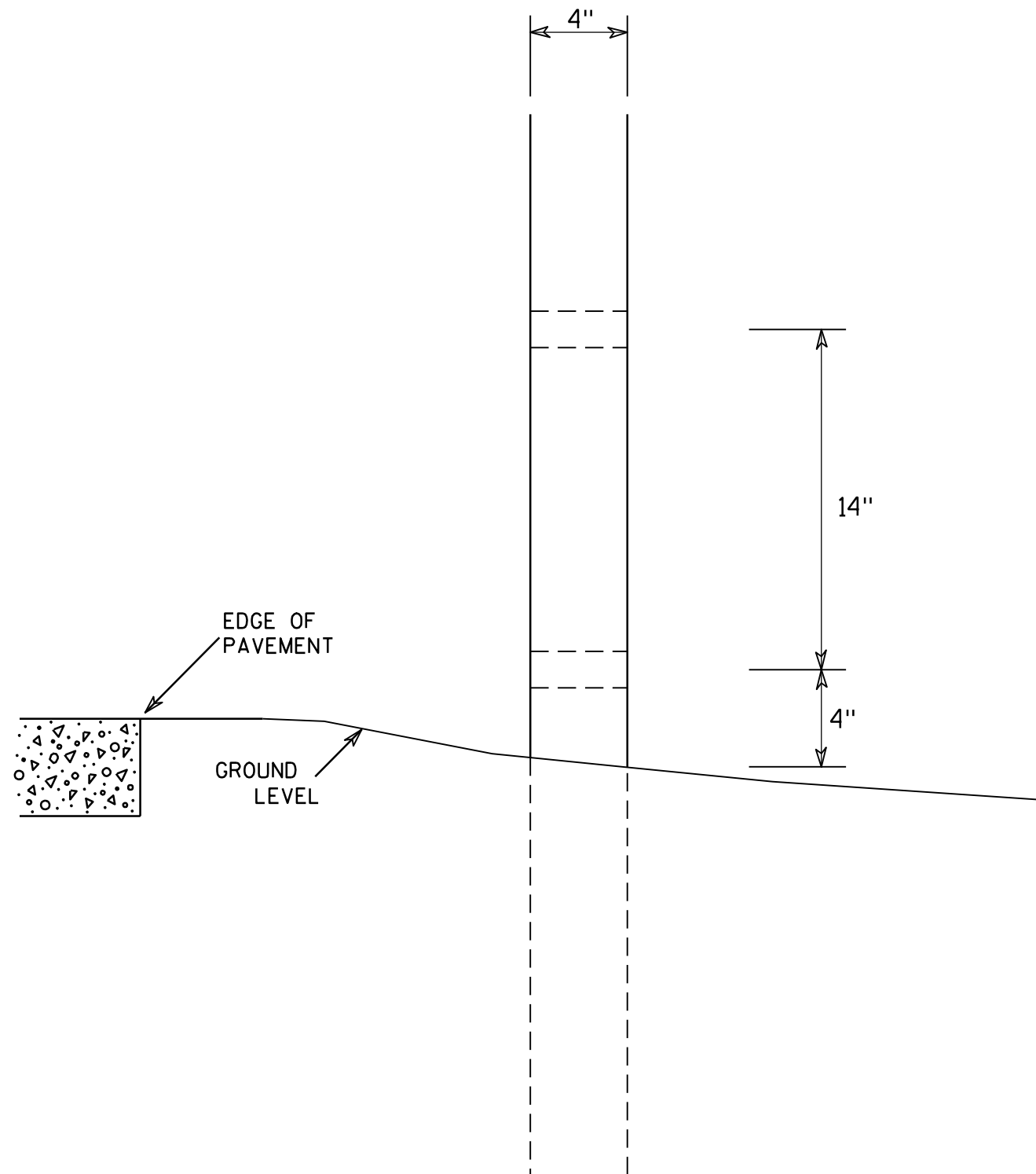
PROJECT NO:

HWY:

COUNTY:

SHEET NO:

E



SIDE VIEW

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1 1/2" diameter holes drilled perpendicular to the roadway centerline.

4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Chester J. Spang
for State Traffic Engineer

DATE 3/27/97

PLATE NO. A4-11.2

PROJECT NO:

HWY:

COUNTY:

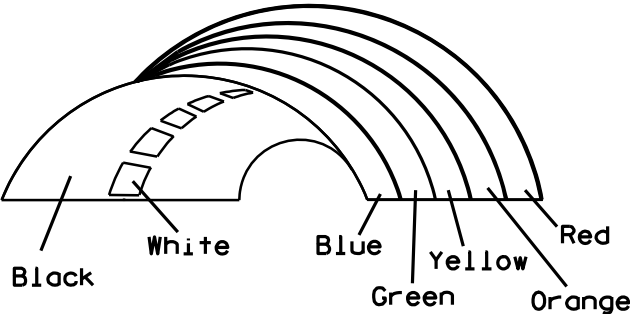
SHEET NO: 163

E



* VARIES

Background Colors of Symbol*



*1/4" Black Border between each color of rainbow and border of rainbow

NOTES

- 1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:
Background - White
Message - (See Note 5)
- 3. Message Series - (See Note 6)
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Border - Blue
Line 1- Red
Line 2 - Black
Line 3-5 - Blue
- 6. Line 1- Dutch 8011L
Line 2 - Series E
Line 3-5 - Series C
- 7. Contractor shall provide and install a new post bracket in accordance with the I55-56B sign 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																											
2	30	36	1 1/2	1/2	5/8	3	2	3 1/2	2 7/8	1	8	2 1/8	11 1/4	11 1/8	9 3/8	1 1/4		3/4	12 5/8	7 1/2							7.5
3																											
4																											
5																											

PROJECT NO:

HWY:

COUNTY:

SHEET NO: 164

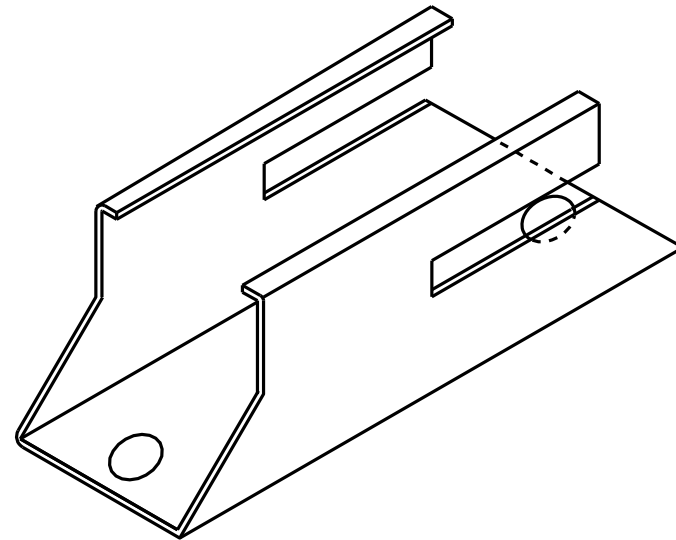
STANDARD SIGN
I55-56

WISCONSIN DEPT OF TRANSPORTATION

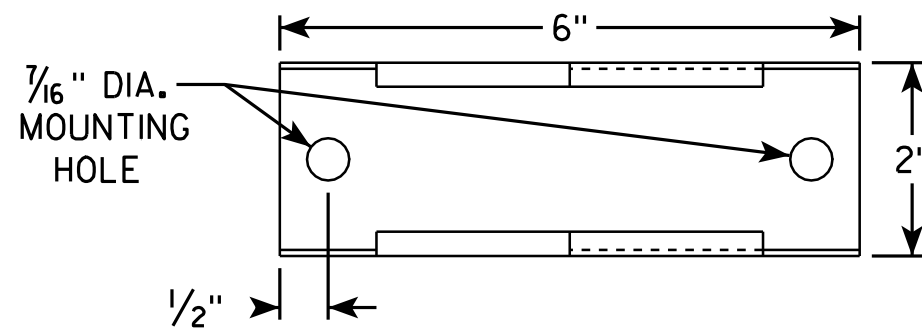
APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 4/27/11 PLATE NO. I55-56.3

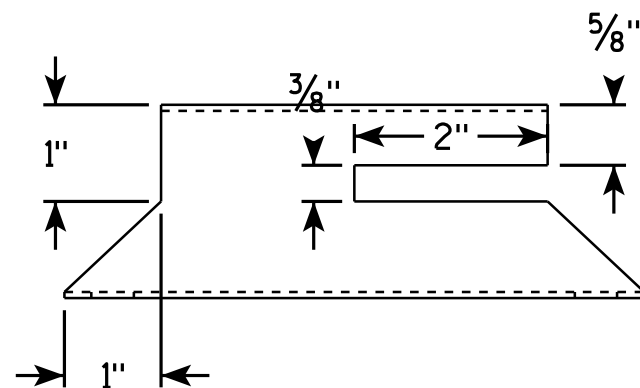
ISOMETRIC VIEW



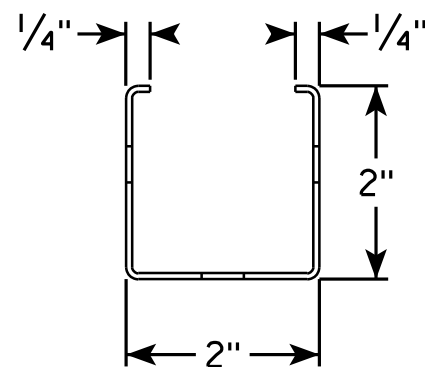
TOP VIEW



SIDE VIEW



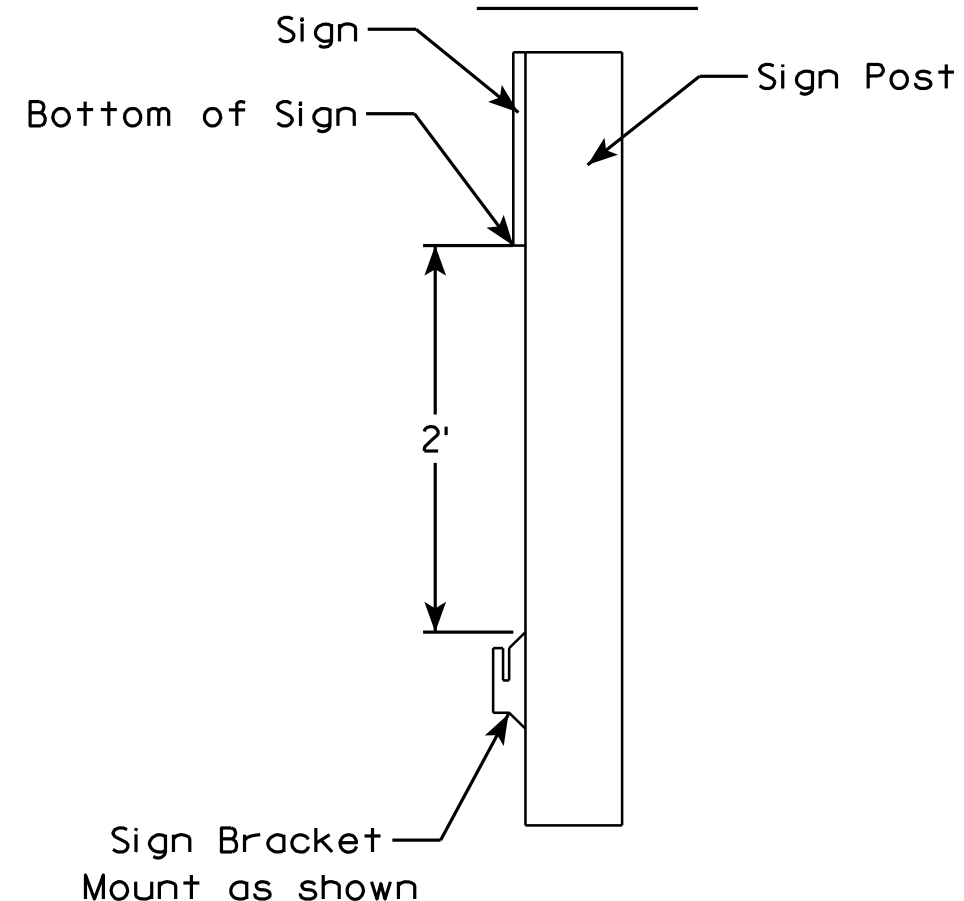
END VIEW



NOTES

1. Must be capable of permanent attachment to a wood or steel channel sign post utilizing the fastening hardware specified on the A4-8 sign plate.
2. Shall be entirely primed and painted with two coats of a black powder coated enamel paint.
3. Shall be made with 12 gauge steel, and incorporate no welds, no hinged components, no threaded lock-type components, and no parts which are loose or can be separated from the main body.
4. Shall have rounded edges with at least 1/8" radii.
5. Shall not have unrounded and uncoated metal edges which can contact the back surface of the roll-up sign.
6. Top of bracket shall be mounted 2' below the bottom of the I55-56 sign.
7. Cost of bracket and fastening hardware shall be incidental to the I55-56 sign.

SIDE VIEW



ROLLUP SIGN BRACKET
I55-56B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 2/5/10 PLATE NO. I55-56B.1

PROJECT NO:

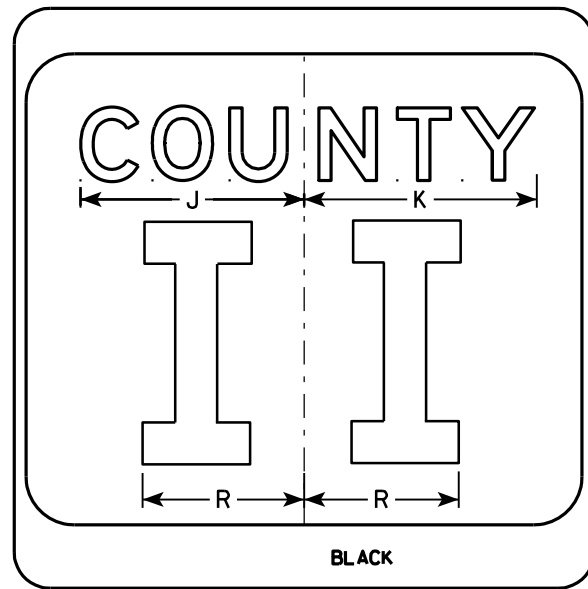
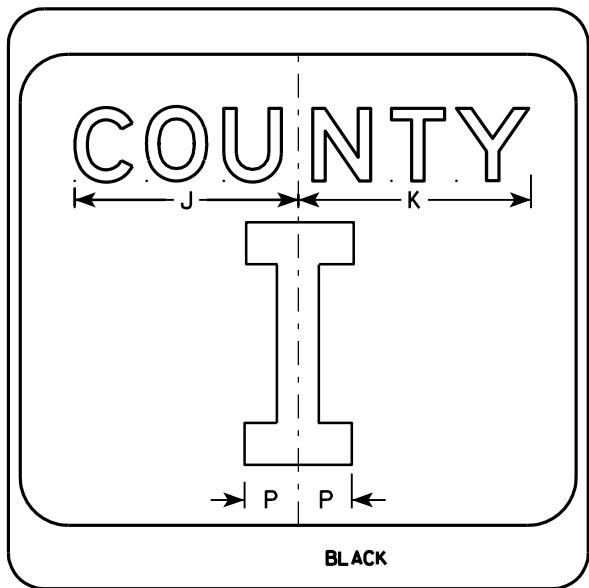
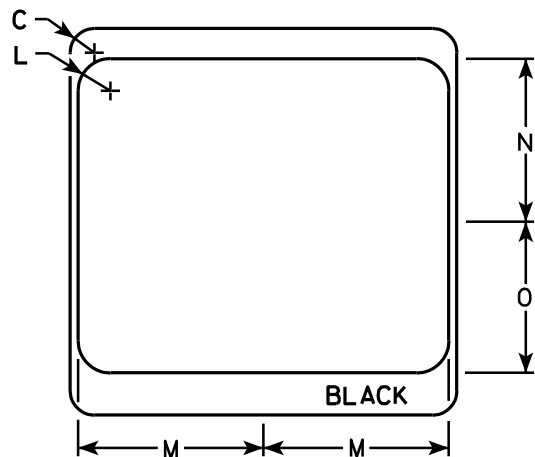
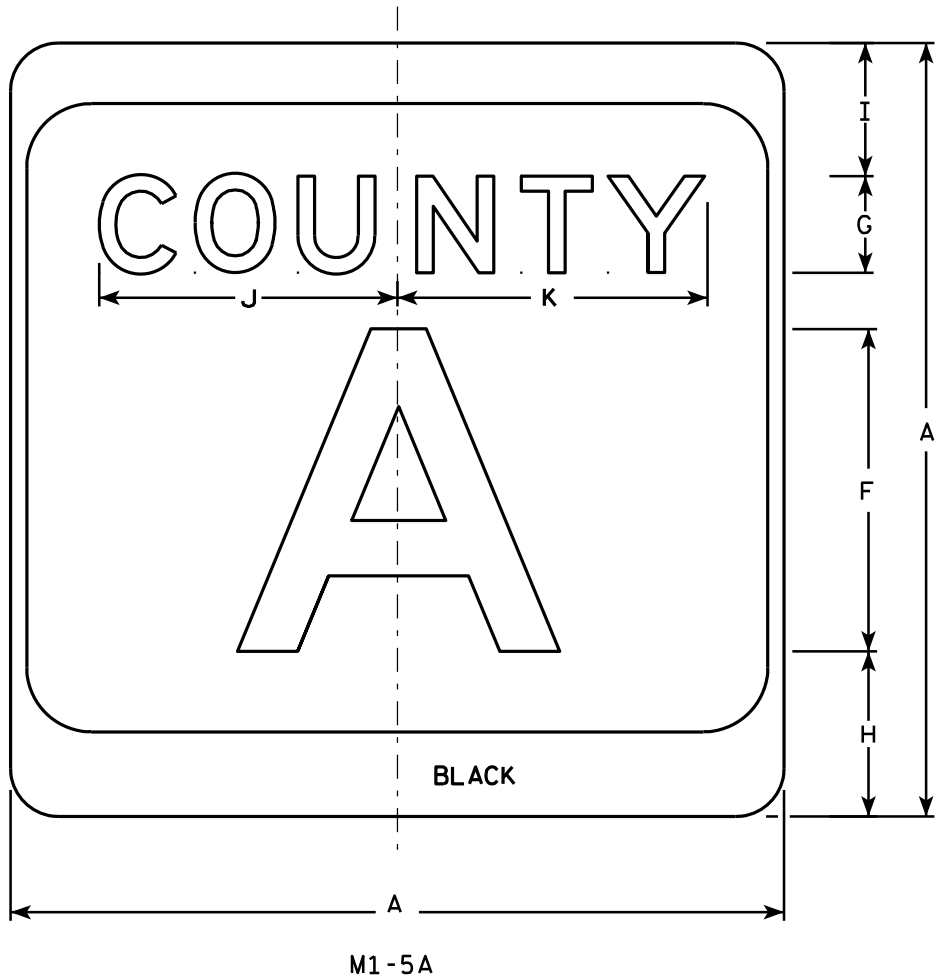
HWY:

COUNTY:

SHEET NO: 165

E

7



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

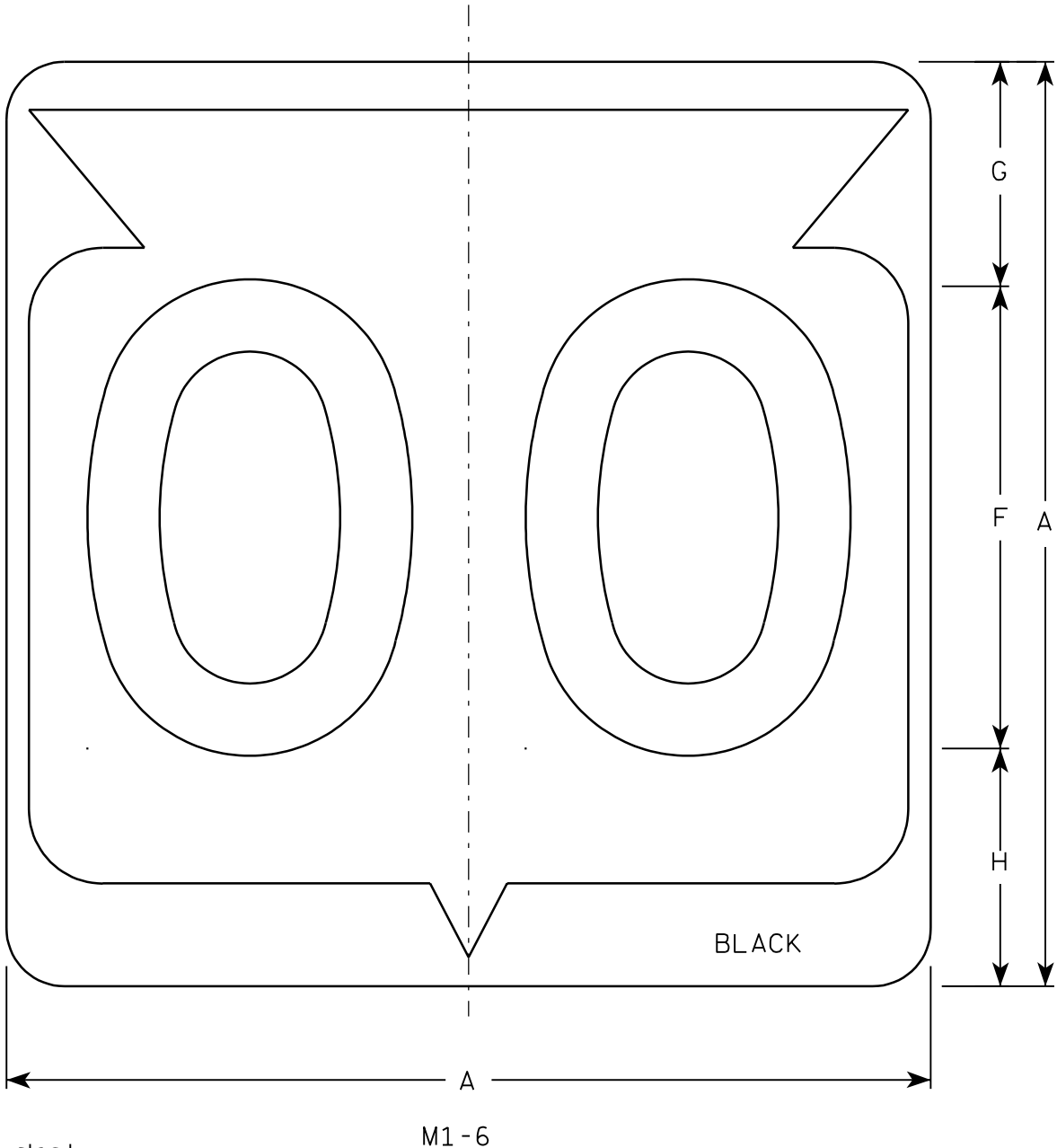
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 5/8	2	11 1/2	10 1/8	9 3/8	2 1/4		6 5/8									4.0
3	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
4	36		2 1/4			16	4	7 5/8	5 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	<i>Matthew R. Rauch</i> For State Traffic Engineer
DATE 9/27/11	PLATE NO. M1-5A.8

PROJECT NO:	HWY:	COUNTY:	SHEET NO: 166	E
-------------	------	---------	---------------	---

7

7



Metric equivalent
for this sign is:

SIZE	
1	
2	600 mm X 600 mm
3	900 mm X 900 mm
4	900 mm X 900 mm
5	900 mm X 900 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m ²
1																												
2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 7/8	11 1/2	1	1 7/8	11 1/4	21 7/8											4.0	.36
3	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81
4	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81
5	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81

PROJECT NO:

HWY:

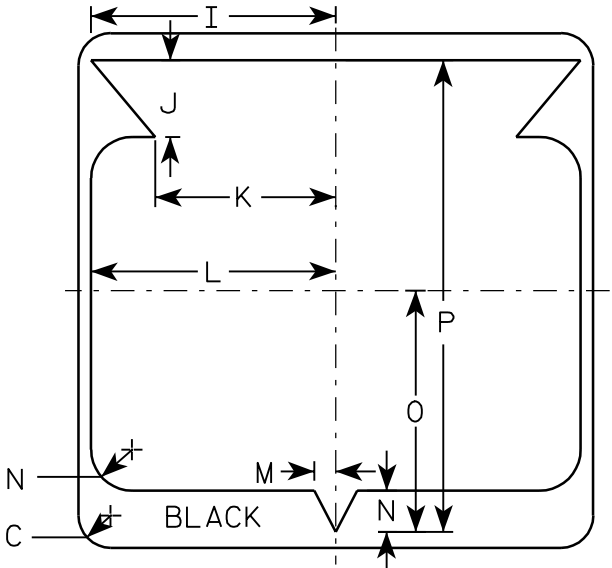
COUNTY:

SHEET NO: 167

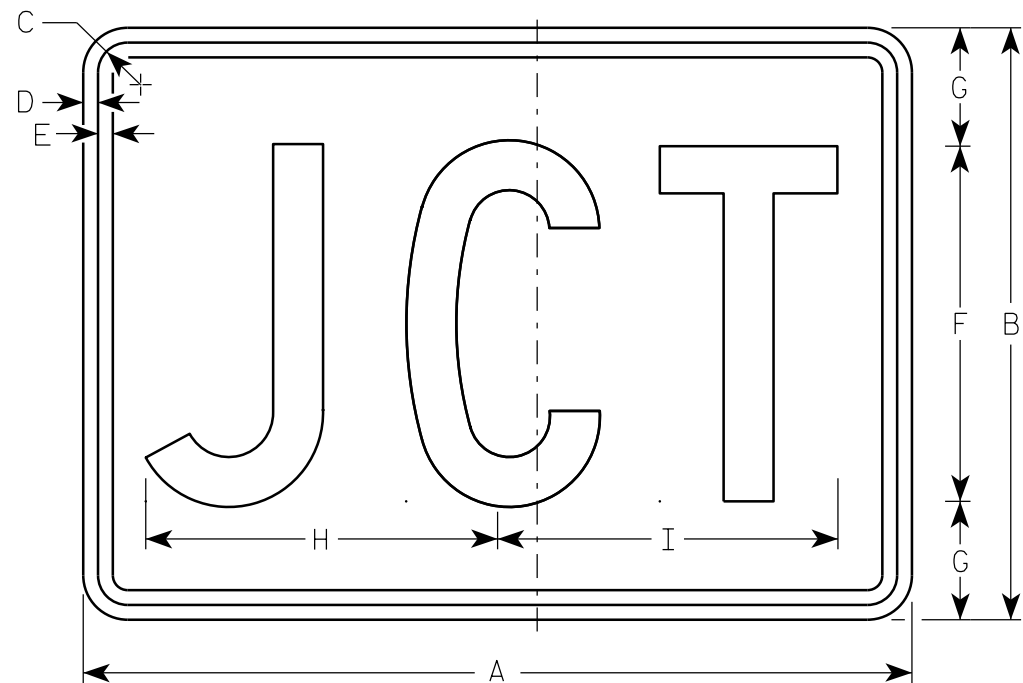
E

NOTES

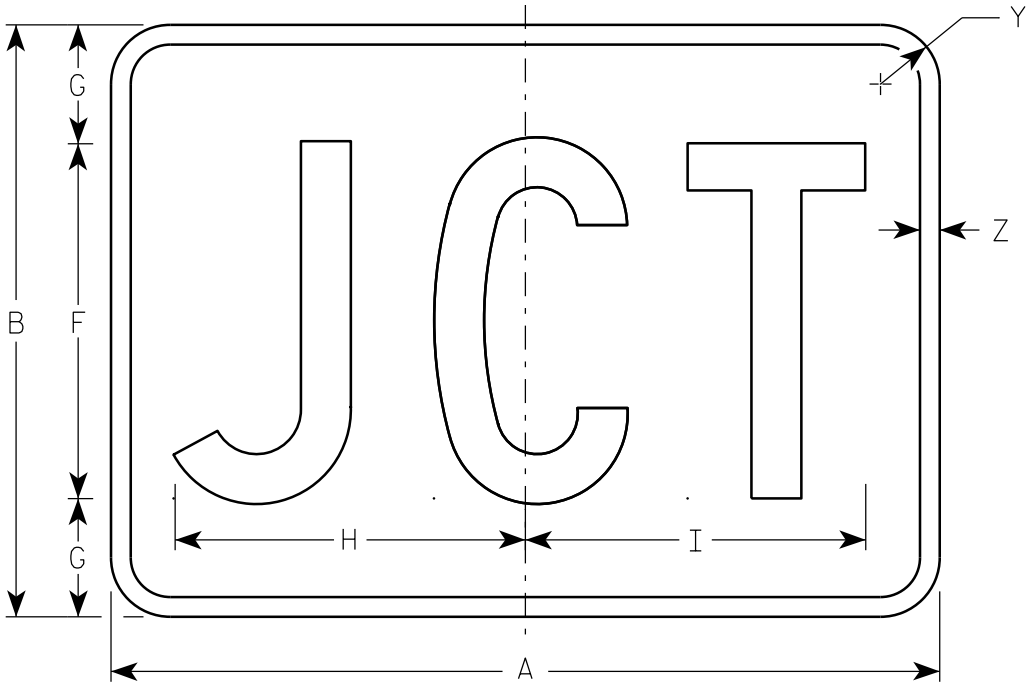
- Sign is Type II - See Note 6 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- Color:
Background - White & Black - See Note 6
Message - Black
- Message Series - See note 5
- Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- Substitute appropriate Series numerals and adjust spacing as per plate A10-1.
- Permanent Signs
Background - Type H Reflective
Detour or temporary Signs
Background - Reflective



7



M2-1
MK2-1
MM2-1
MN2-1
MR2-1



MB2-1

NOTES

- 1. Sign is Type II - Type H
- 2. Color:
 - Background - See note 5
 - Message - See note 5
- 3. Message Series - C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. M2-1 Background - White
Message - Black
MB2-1 Background - Blue
Message - White
MK2-1 Background - Green
Message - White
MM2-1 Background - White
Message - Green
MN2-1 Background - Brown
Message - White
MR2-1 Background - Brown
Message - Yellow

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21	15	1 1/8	3/8	3/8	9	3	8 7/8	8 5/8																1 1/2	1/2	2.20
3	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40
4	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40
5	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40

STANDARD SIGN

M2 - 1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

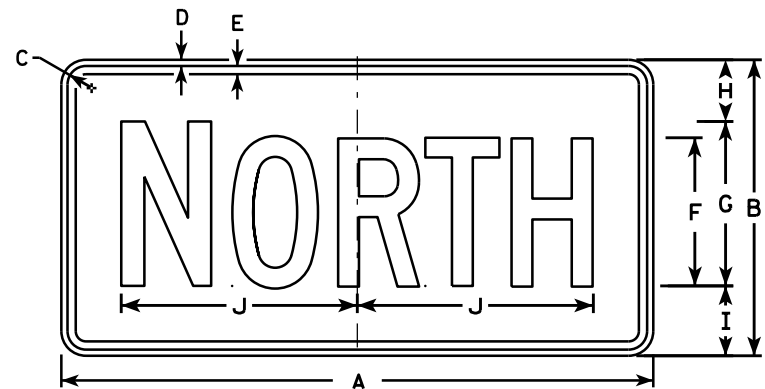
Matthew R. Rauch

For State Traffic Engineer

DATE 6/30/14

PLATE 168

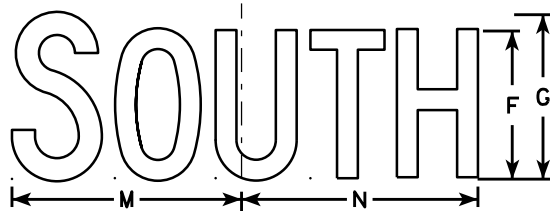
'2-1.11



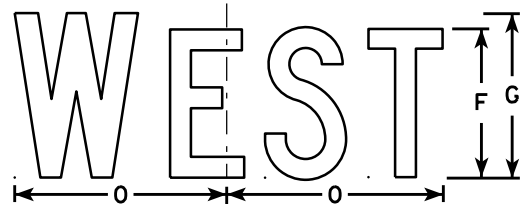
M3-1
MK3-1
MM3-1
MN3-1



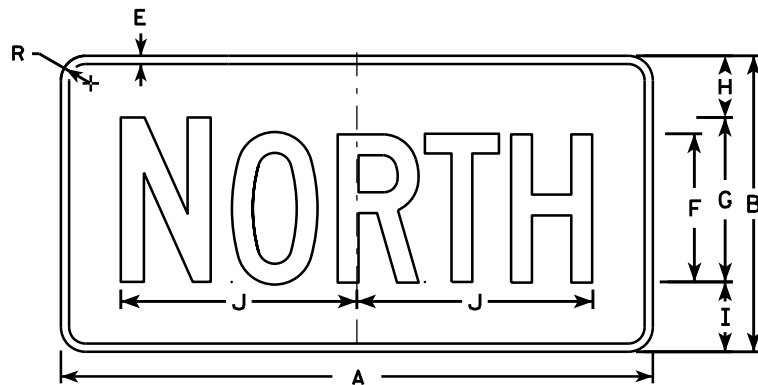
M3-2
MK3-2
MM3-2
MN3-2



M3-3
MK3-3
MM3-3
MN3-3



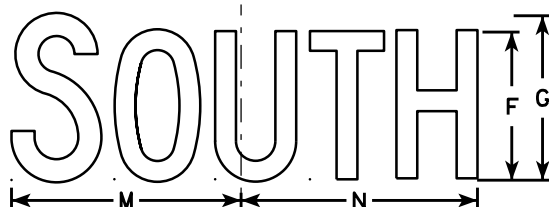
M3-4
MK3-4
MM3-4
MN3-4



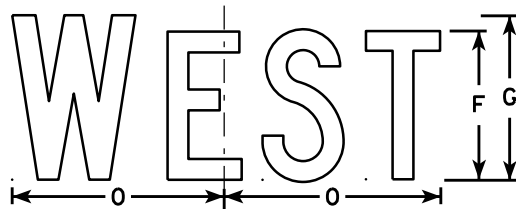
MB3-1



MB3-2



MB3-3



MB3-4

NOTES

1. All Signs Type II - Type H
2. Color:
Background - See note 5
Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M3-1 thru M3-4 Background - White
Message - Black
MB3-1 thru MB3-4 Background - Blue
Message - White
MK3-1 thru MK3-4 Background - Green
Message - White
MM3-1 thru MM3-4 Background - White
Message - Green
MN3-1 thru MN3-4 Background - Brown
Message - White
6. Note the first letter of each direction is larger than the remainder of the message.

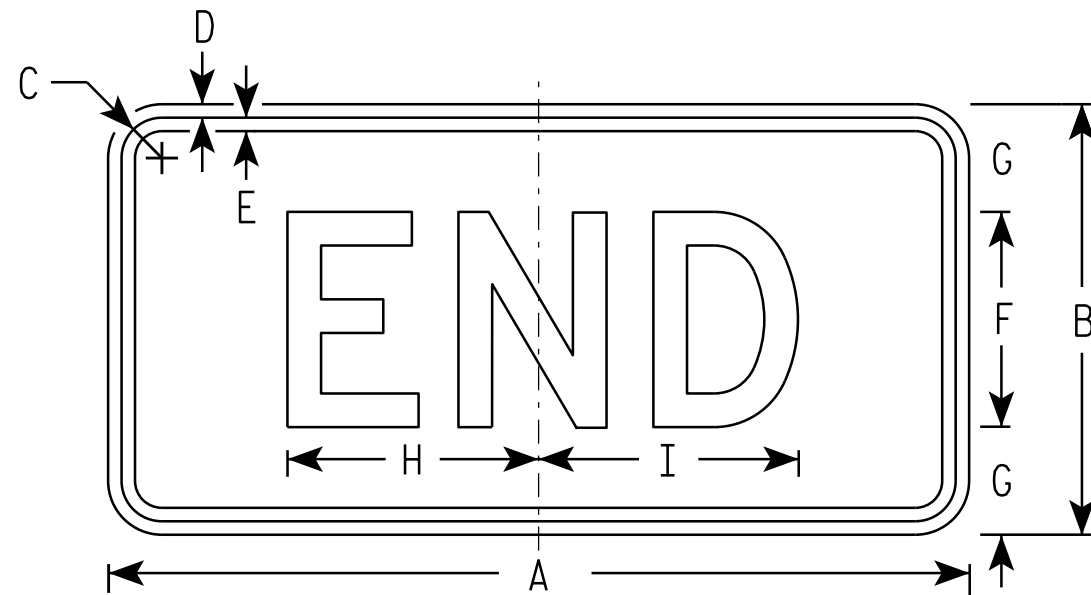
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 7/8	8 3/8	10 1/4	9 3/4	8 3/4			1 1/2									2.00
3	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
4	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
5	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5

STANDARD SIGNS
M3-1 thru M3-4
SERIES

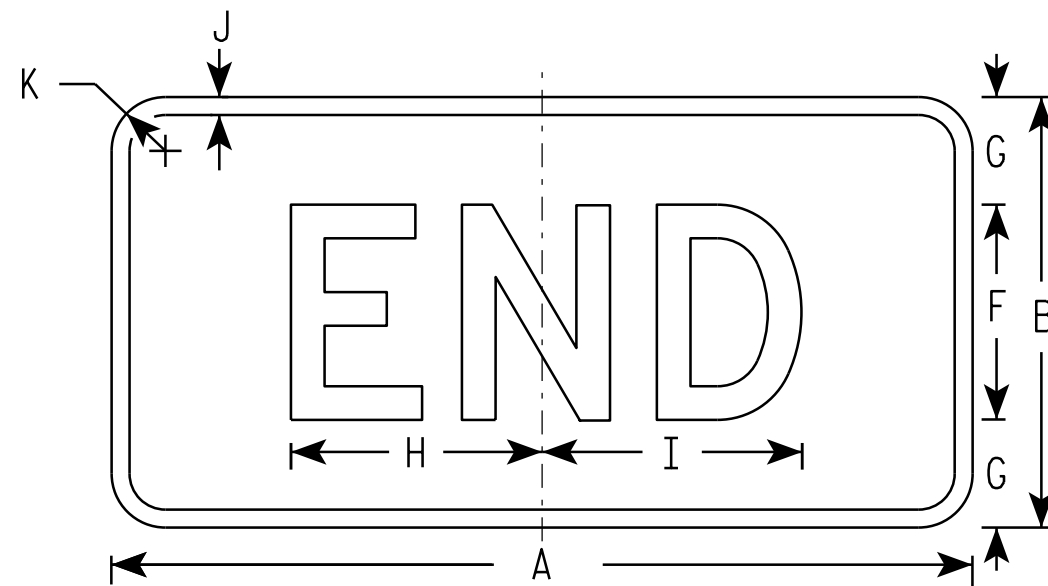
WISCONSIN DEPT OF TRANSPORTATION

APPROVED
Matthew R. Rauch
for State Traffic Engineer

DATE 6/30/14 PLAT 169 M3-1.13



M4-6
MK4-6
MM4-6
MN4-6
MR4-6



MB4-6

NOTES

- Sign is Type II - Type H
- Color:
Background - See note 5
Message - See note 5
- Message Series - D
- 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.
- M4-6 Background - White
Message - Black
MB4-6 Background - Blue
Message - White
MK4-6 Background - Green
Message - White
MM4-6 Background - White
Message - Green
MN4-6 Background - Brown
Message - White
MR4-6 Background - Brown
Message - Yellow

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	3	7	7 1/4	1/2	1 1/2																2.00
3	36	18	1 1/8	3/8	1/2	9	4 1/2	12	11 7/8	1/2	1 1/2																4.5
4	36	18	1 1/8	3/8	1/2	9	4 1/2	12	11 7/8	1/2	1 1/2																4.5
5	36	18	1 1/8	3/8	1/2	9	4 1/2	12	11 7/8	1/2	1 1/2																4.5

STANDARD SIGN M4-6

WISCONSIN DEPT OF TRANSPORTATION

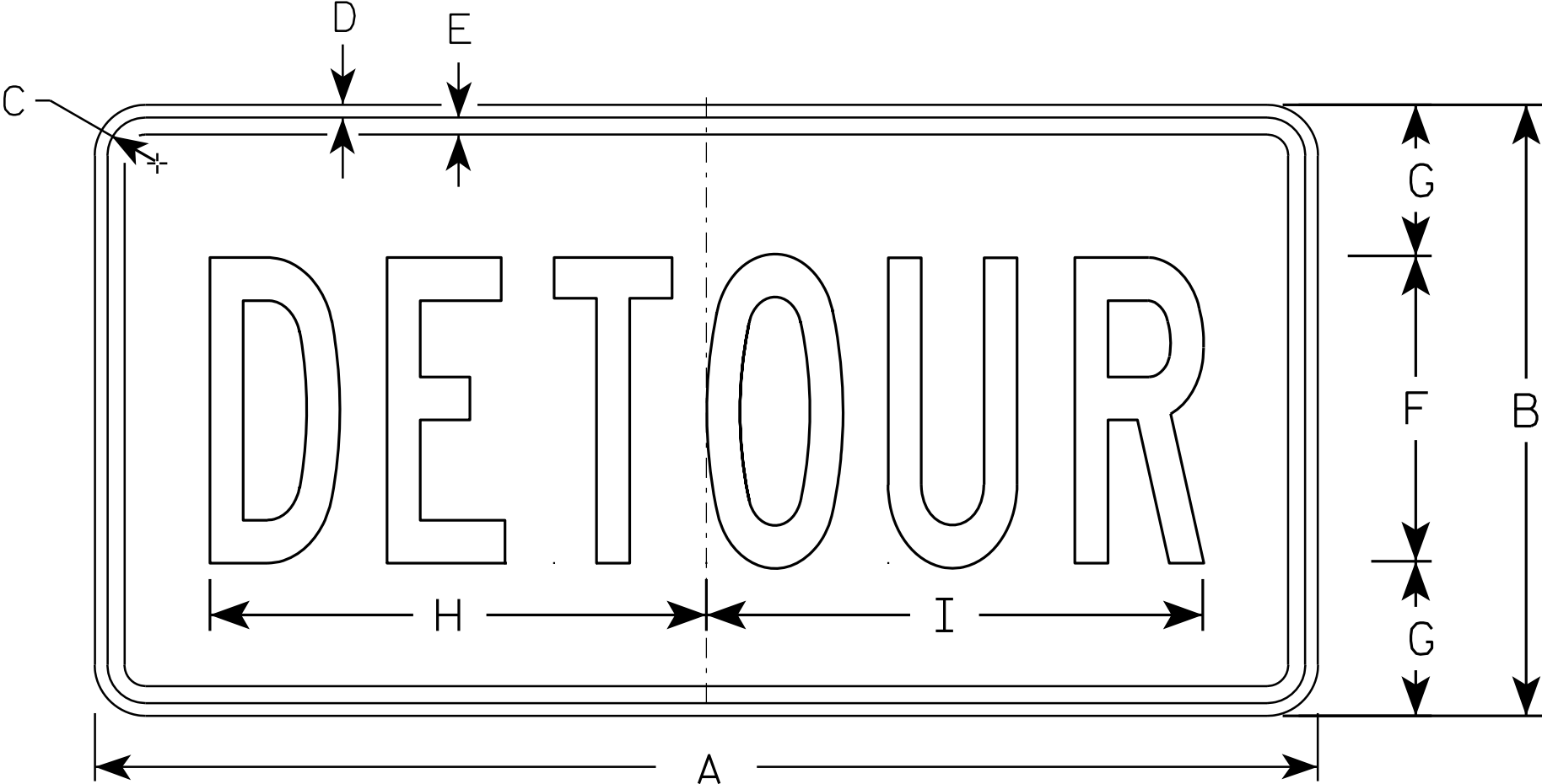
APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 6/30/14 PLAT 170 '14-7.8

PROJECT NO: HWY: COUNTY: SHEET NO: 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 - Orange
 - Message - Black
- 3. Message Series - B
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



M4 - 8

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	3	10	10 1/4																		2.0
3	36	18	1 1/8	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
4																											
5																											

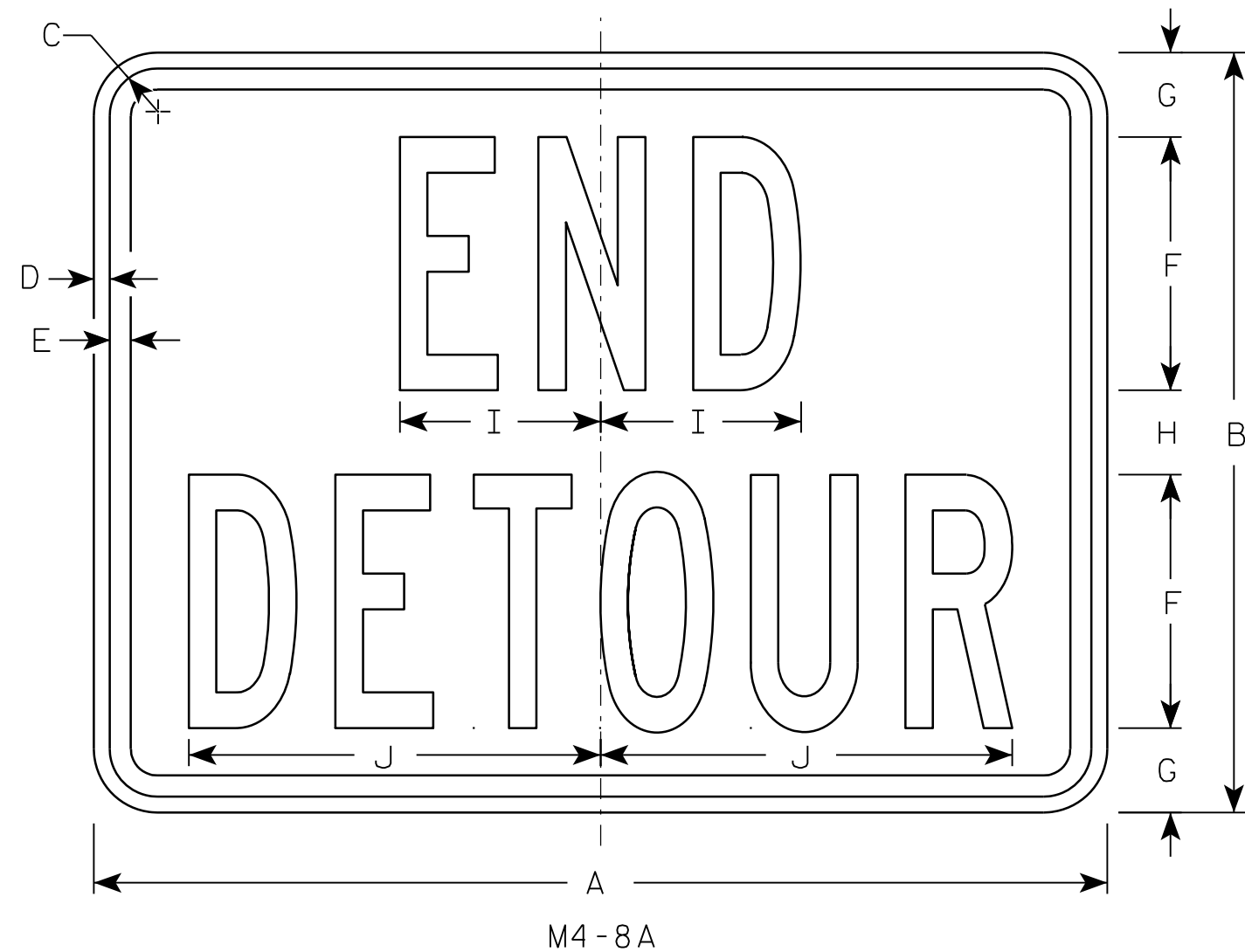
STANDARD SIGN
M4 - 8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED
Matthew R. Rauch
for State Traffic Engineer

DATE 11/10/10 PLATE NO. M4-8.2

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 - Orange
Message - Black
3. Message Series - B
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

7

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	18	1 1/8	3/8	1/2	6	2	2	4 3/4	9 3/4																	3.0
3	30	24	1 1/8	3/8	1/2	8	2 1/2	3	6 3/4	13																	5.0
4																											
5																											

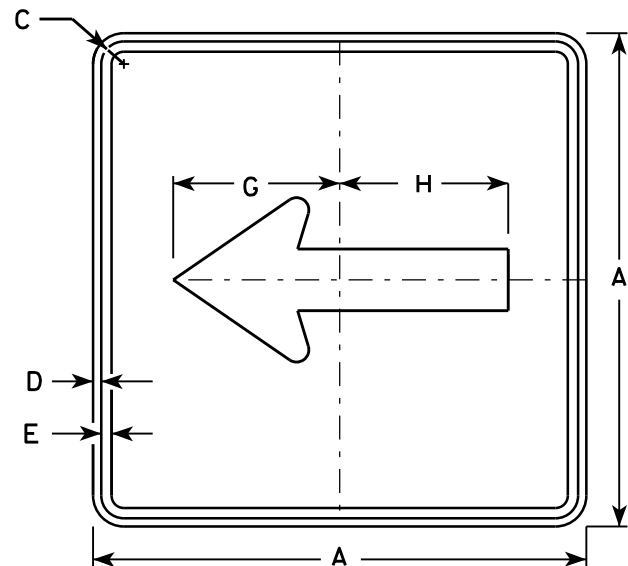
PROJECT NO:	HWY:	COUNTY:	SHEET NO: 172	E
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STANDARD SIGN
M4-8A

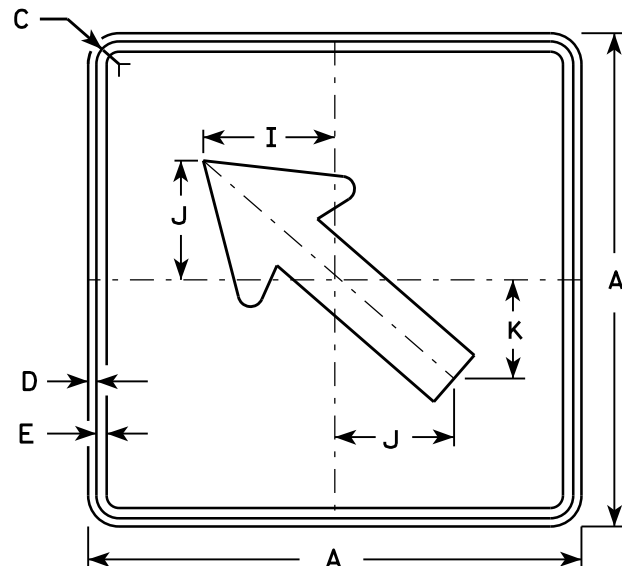
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

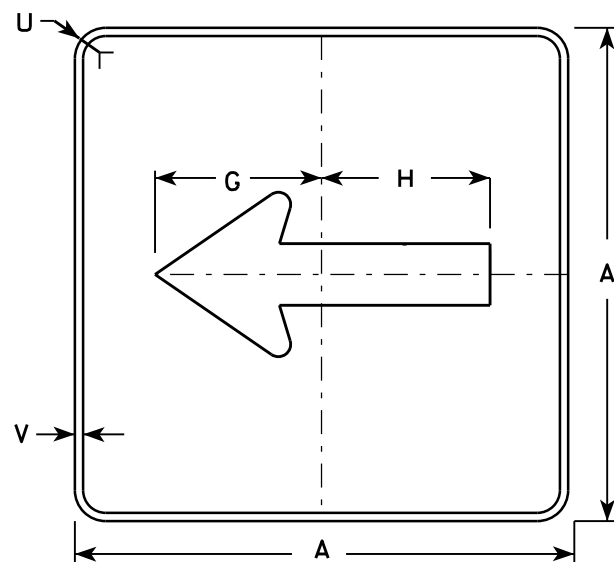
DATE 3/9/11 PLATE NO. M4-8A.2



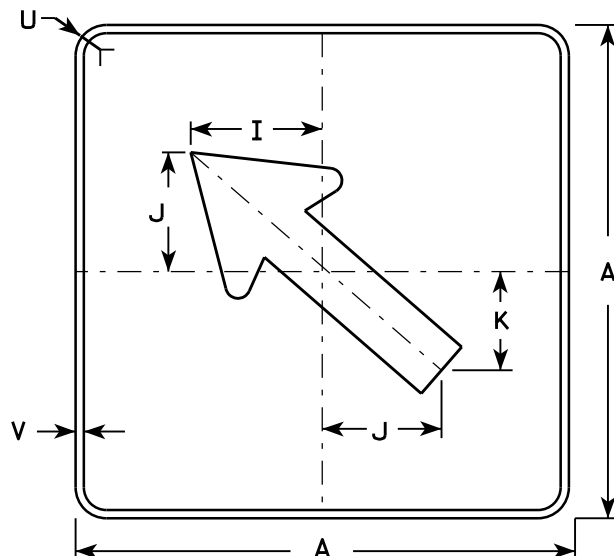
M6 - 1
MK6 - 1
MM6 - 1
MN6 - 1
M06 - 1
MP6 - 1
MR6 - 1



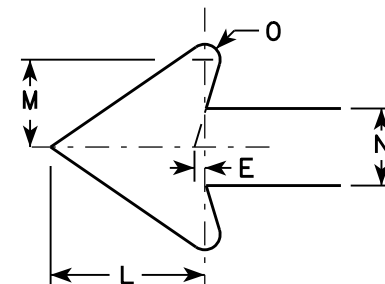
M6 - 2
MK6 - 2
MM6 - 2
MN6 - 2
M06 - 2
MP6 - 2
MR6 - 2



MB6 - 1



MB6 - 2



NOTES

- Signs are Type II - Type H except as Shown
- Color:
Background - See note 4
Message - See note 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.
- M6-1 and M6-2 Background - White
Message - Black
MB6-1 and MB6-2 Background - Blue
Message - White
MG6-1 and MG6-2 Background - Green
Message - White
MK6-1 and MK6-2 Background - Green
Message - White
MM6-1 and MM6-2 Background - White
Message - Green
MN6-1 and MN6-2 Background - Brown
Message - White
M06-1 and M06-2 Background - Orange - Type F Reflective
Message - Black
MP6-1 and MP6-2 Background - White
Message - Blue
MR6-1 and MR6-2 Background - Brown
Message - Yellow

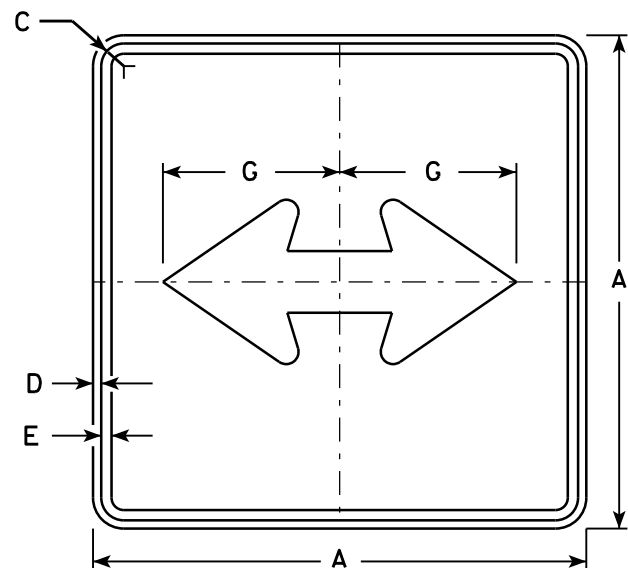
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2						1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25

STANDARD SIGN
M6 - 1 & M6 - 2
SERIES

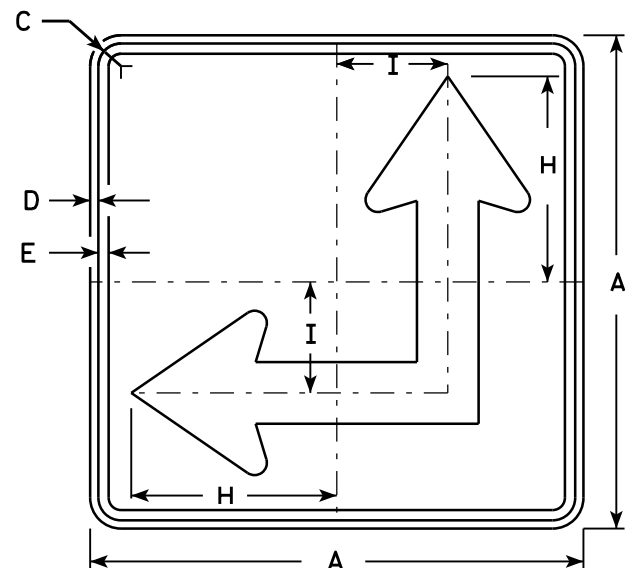
WISCONSIN DEPT OF TRANSPORTATION

APPROVED
Matthew R. Rauch
for State Traffic Engineer

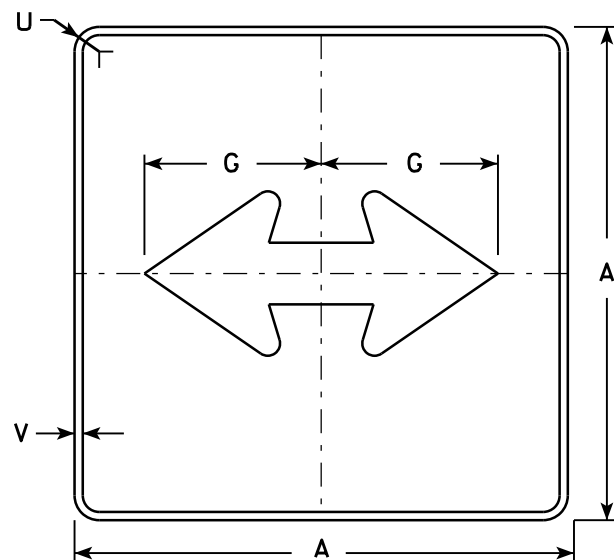
DATE 7/03/14 PLAT 173 M6-1.14



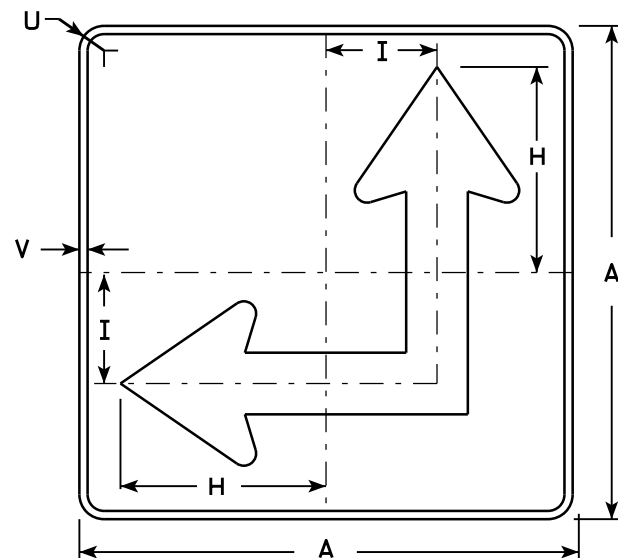
M6 - 4
MK6 - 4
MM6 - 4
MN6 - 4
MO6 - 4
MP6 - 4
MR6 - 4



M6 - 6
MK6 - 6
MM6 - 6
MN6 - 6
MO6 - 6
MP6 - 6
MR6 - 6



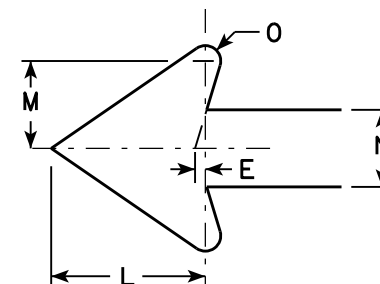
MB6 - 4



MB6 - 6

NOTES

- Signs are Type II - Type H except as Shown
- Color:
Background - See Note 4
Message - See Note 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.
- M6-4 and M6-6 Background - White
Message - Black
MB6-4 and MB6-6 Background - Blue
Message - White
MK6-4 and MK6-6 Background - Green
Message - White
MM6-4 and MM6-6 Background - White
Message - Green
MN6-4 and MN6-6 Background - Brown
Message - White
MO6-4 and MO6-6 Background - Orange - Type F Reflective
Message - Black
MP6-4 and MP6-6 Background - White
Message - Blue
MR6-4 and MR6-6 Background - Brown
Message - Yellow
- M6-6R same as M6-6L except arrow points ahead and right.



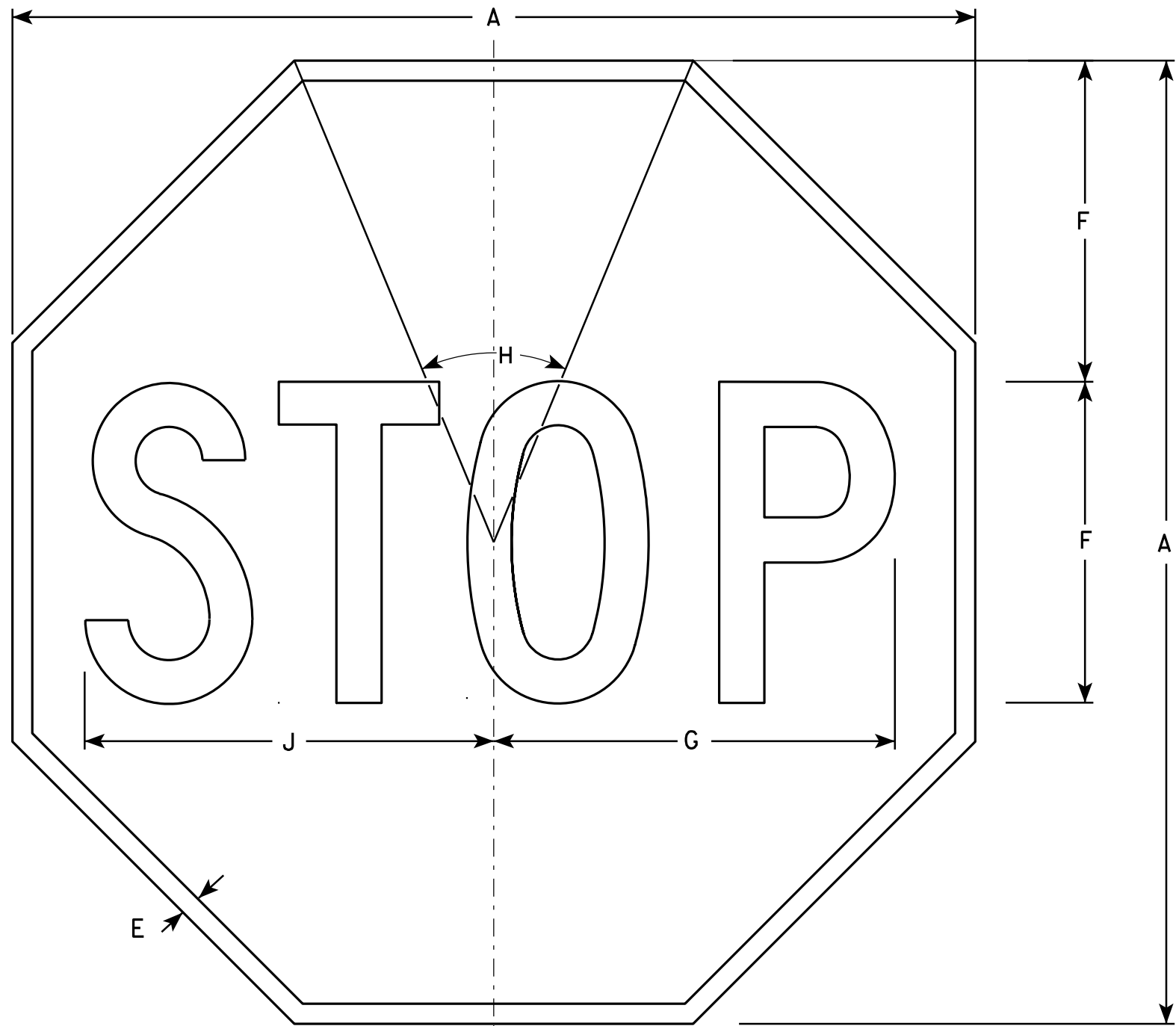
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7 1/2	8 3/4	4 1/4			5 1/4	3	2 5/8	1/2						1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25

STANDARD SIGN
M6 - 4 & M6 - 6
SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED
Matthew R. Rauch
for State Traffic Engineer

DATE 7/03/14 PLAT 174 '16-4.9



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

R1-1

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

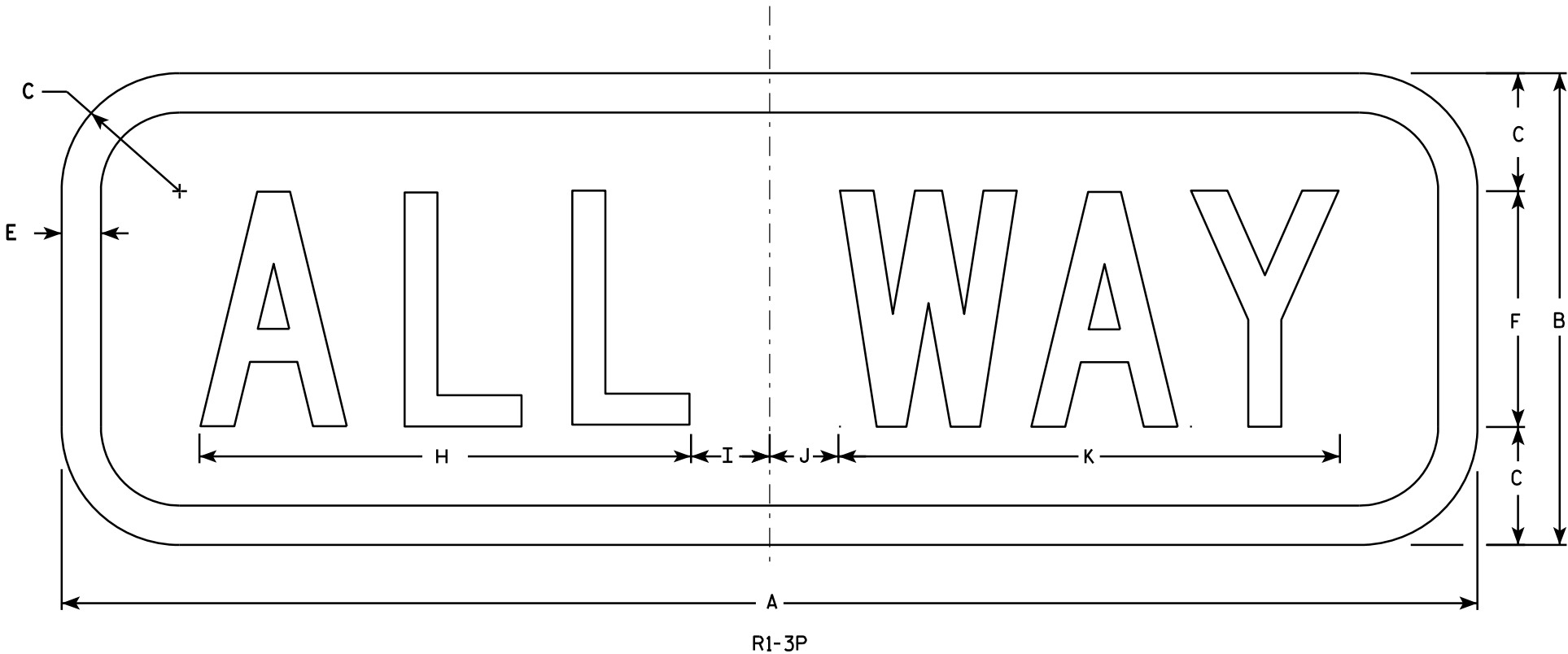
PROJECT NO:

HWY:

COUNTY:

SHEET NO: 175

7



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.

7

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																											

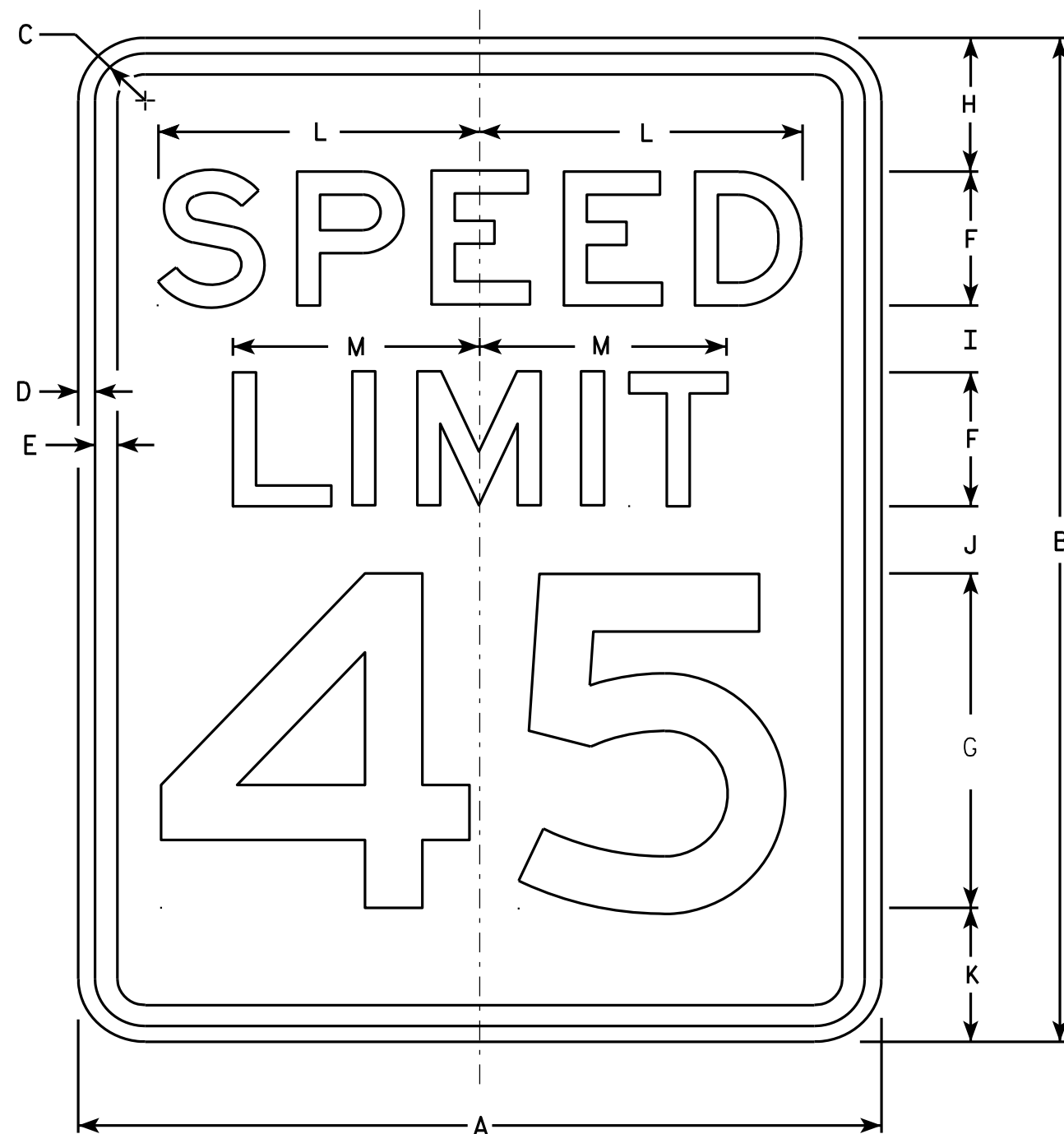
STANDARD SIGN

R1 - 3P

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 11/02/10 PLATE NO. R1-3P.1



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

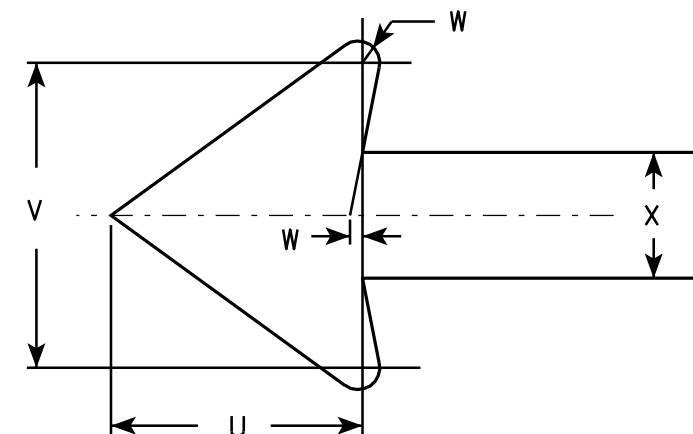
PROJECT NO: HWY: COUNTY: SHEET NO: 177 E



R7-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - White
Message - Red
3. Message Series - See Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1, 3 and 4 are series C, line 2 is series B.
6. R7-1D (double arrow)
R7-1L (left arrow)
R7-1R (right arrow)



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	12	18	1 1/8	3/8	3/8	3	1 7/8	2	7/8	5/8	1 1/2	2 1/2	2	2	4 7/8	4 7/8	2 1/4	2 1/8	2 1/2	3 7/8	1 1/2	1 3/4	1/8	3/4			1.5
2S	18	24	1 1/8	3/8	1/2	4	2 1/2	2 1/2	1 1/4	1	2	3 1/4	2 3/4	2 5/8	7 1/8	7	2 3/4	2 5/8	3 1/8	5 7/8	2 1/4	2 5/8	1/4	1 1/8			3.0
2M	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
3	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
4																											
5																											

STANDARD SIGN
R7-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 3/31/2011 PLATE NO. R7-1.9

PROJECT NO: HWY: COUNTY: SHEET NO: 178 E



R9-55

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. Line 1 is Series E.
Lines 2, 3 and 4 are 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																											
2S	18	24	1 1/8	3/8	1/2	4	3	2 1/2	1 7/8	2 1/8	1 1/4	2 1/4	3 3/4	7 1/4	7 1/2	5 1/2											3.0
2M	18	24	1 1/8	3/8	1/2	4	3	2 1/2	1 7/8	2 1/8	1 1/4	2 1/4	3 3/4	7 1/4	7 1/2	5 1/2											3.0
3																											
4																											
5																											

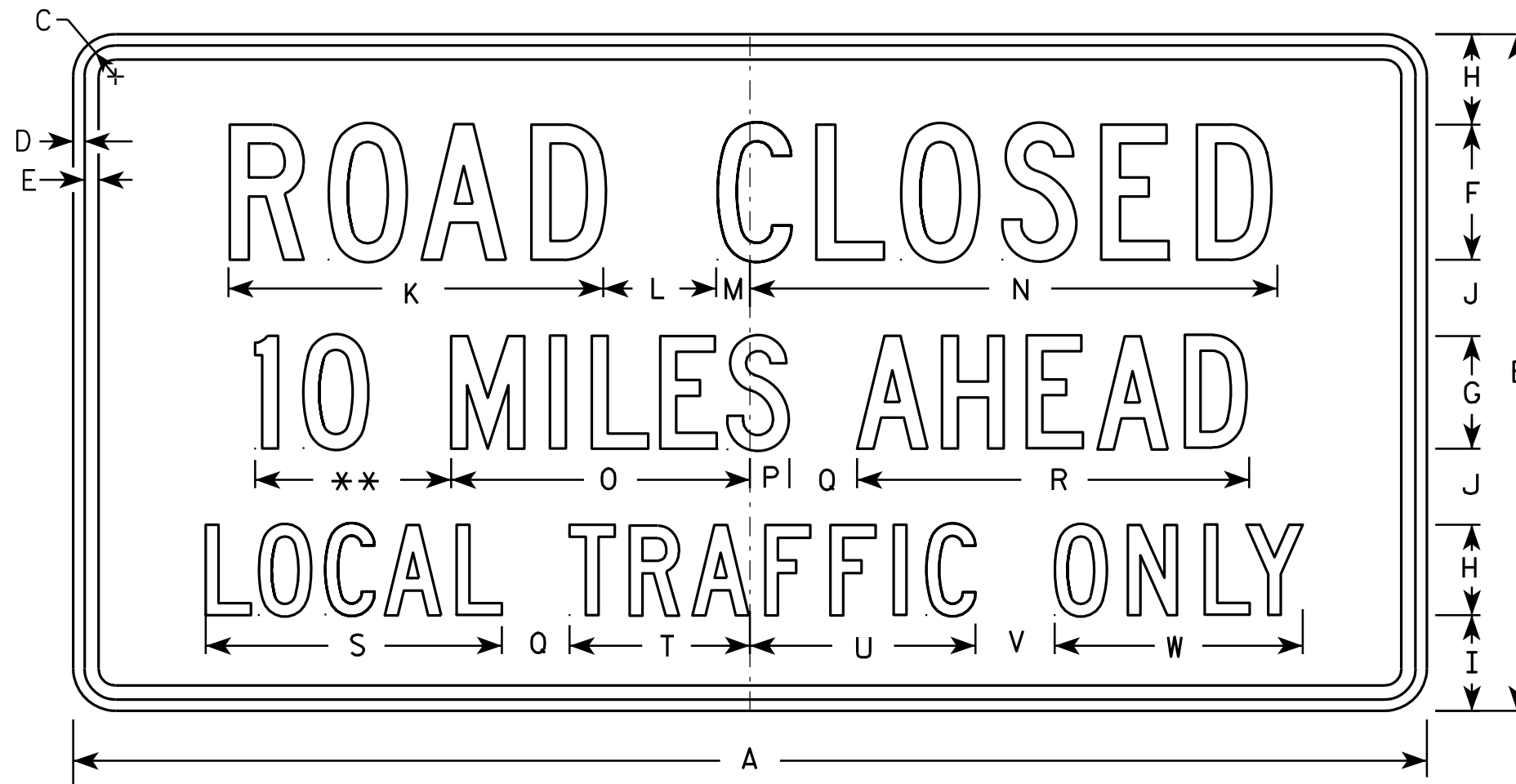
STANDARD SIGN R9-55

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 4/4/2011 PLATE NO. R9-55.6

PROJECT NO: HWY: COUNTY: SHEET NO: 179 E



R11-3

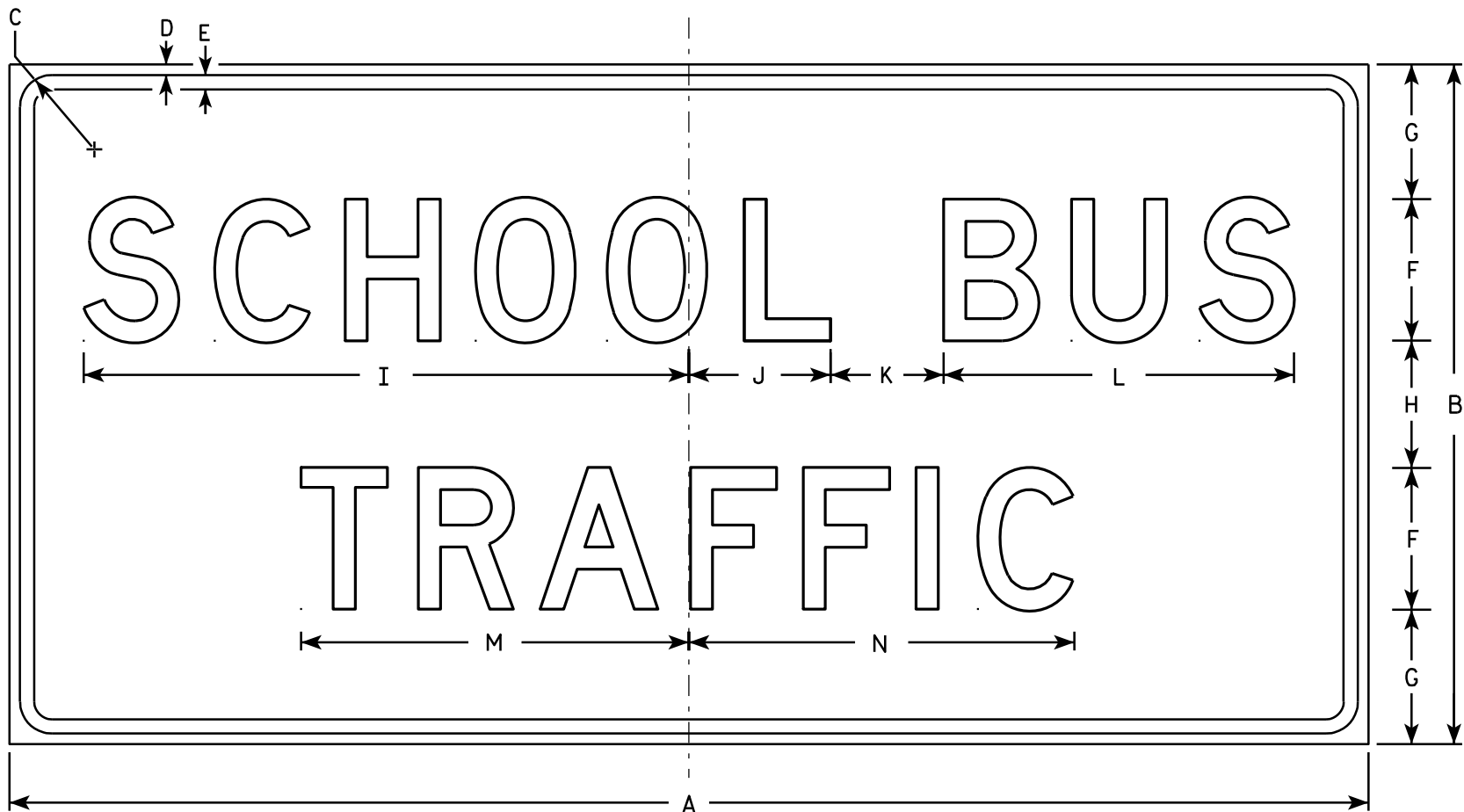
NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - White
Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

** See Note 5

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	18	1 3/8	1/2	5/8	4	3	2 1/2	2	2	11 1/8	3	1 1/8	15 1/4	8	1 1/2	2	10 3/4	8 3/8	4 3/4	6 1/2	2	6 3/4				4.5
2S	60	30	1 3/8	1/2	5/8	6	5	4	4 1/4	3 3/8	16 5/8	5	1 1/2	23	13 1/4	1 3/4	3	17 3/8	13 1/8	8	10	3 1/2	11				12.5
2M	60	30	1 3/8	1/2	5/8	6	5	4	4 1/4	3 3/8	16 5/8	5	1 1/2	23	13 1/4	1 3/4	3	17 3/8	13 1/8	8	10	3 1/2	11				12.5
3																											
4																											
5																											

STANDARD SIGN R11-3	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R. Rauch</i> For State Traffic Engineer
DATE 4/1/11	PLATE NO. R11-3.6



S3-51

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-Green
Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

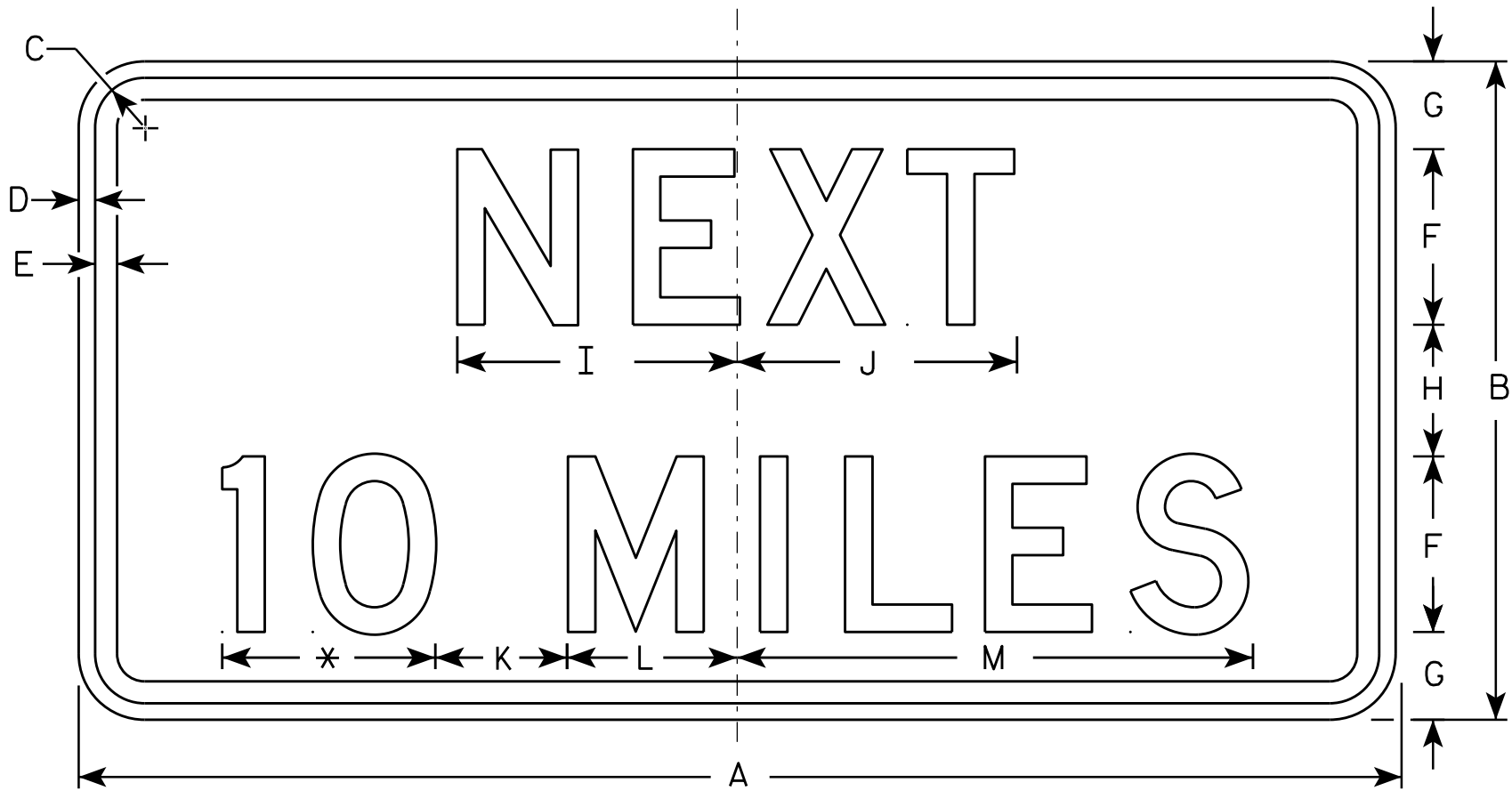
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	24	1 3/8	1/2	5/8	5	4 3/4	4 1/2	21 3/8	5	4	12 3/8	14	13 5/8													8.0
2M	48	24	1 3/8	1/2	5/8	5	4 3/4	4 1/2	21 3/8	5	4	12 3/8	14	13 5/8													8.0
3																											
4	96	48	2 1/4	3/4	1	10	9 1/2	9	42 3/4	10	8	24 3/4	27 3/8	27 1/8													32.0
5																											

STANDARD SIGN
S3-51

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 11/02/10 PLATE NO. S3-51.4



S57-51

- 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-Green
Message - Black
 3. Message Series - D
 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
 5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

* See note 5

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	36	18	1 1/8	3/8	1/2	5	2 5/8	2 3/4	7 7/8	8	5	4 1/8	15 3/8														4.5
2M	36	18	1 1/8	3/8	1/2	5	2 5/8	2 3/4	7 7/8	8	5	4 1/8	15 3/8														4.5
3																											
4	48	24	1 3/8	1/2	5/8	6	3 1/2	5	10	10 1/8	6	5 5/8	19														8.0
5																											

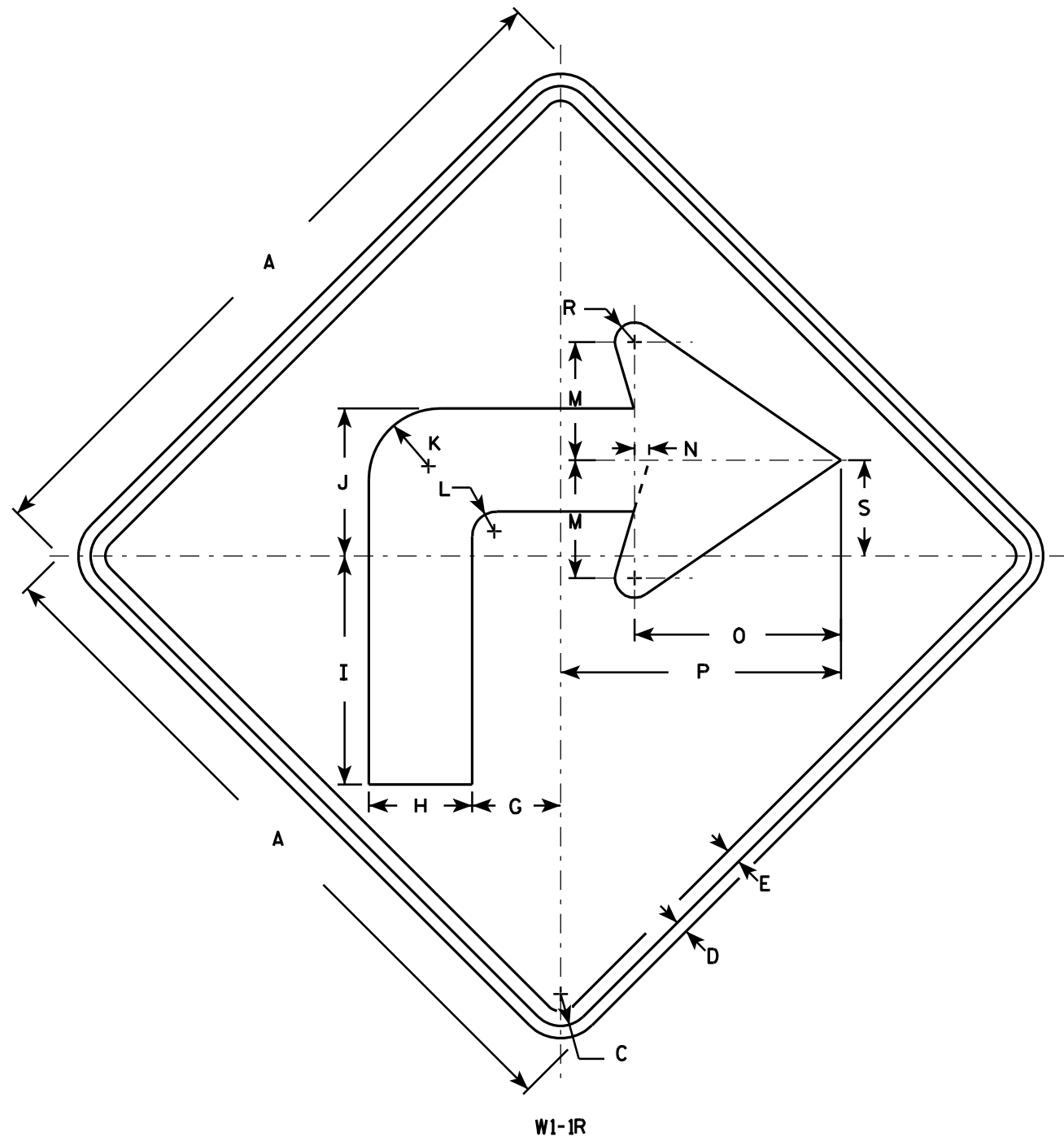
PROJECT NO:	HWY:	COUNTY:	SHEET NO:	E
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STANDARD SIGN
S57-51

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 10/3/2013 PLA 182 57-51.1



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Yellow
Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W1-1L is the same as W1-1R except the arrow is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2		3	3 1/2	7 3/4	5	2 1/2	7/8	4	1/2	7	9 1/2		5/8	3 1/4								4.0
2S	36		1 5/8	5/8	3/4		4 1/2	5 1/4	11 5/8	7 1/2	3 5/8	1 1/4	6	3/4	10 1/2	14 1/4		1	4 7/8								9.0
2M	36		1 5/8	5/8	3/4		4 1/2	5 1/4	11 5/8	7 1/2	3 5/8	1 1/4	6	3/4	10 1/2	14 1/4		1	4 7/8								9.0
3	36		1 5/8	5/8	3/4		4 1/2	5 1/4	11 5/8	7 1/2	3 5/8	1 1/4	6	3/4	10 1/2	14 1/4		1	4 7/8								9.0
4	48		2 1/4	3/4	1		6	7	15 1/2	10	4 7/8	1 5/8	8	1	14	19		1 1/4	6 1/2								16.0
5	48		2 1/4	3/4	1		6	7	15 1/2	10	4 7/8	1 5/8	8	1	14	19		1 1/4	6 1/2								16.0

STANDARD SIGN

W1-1

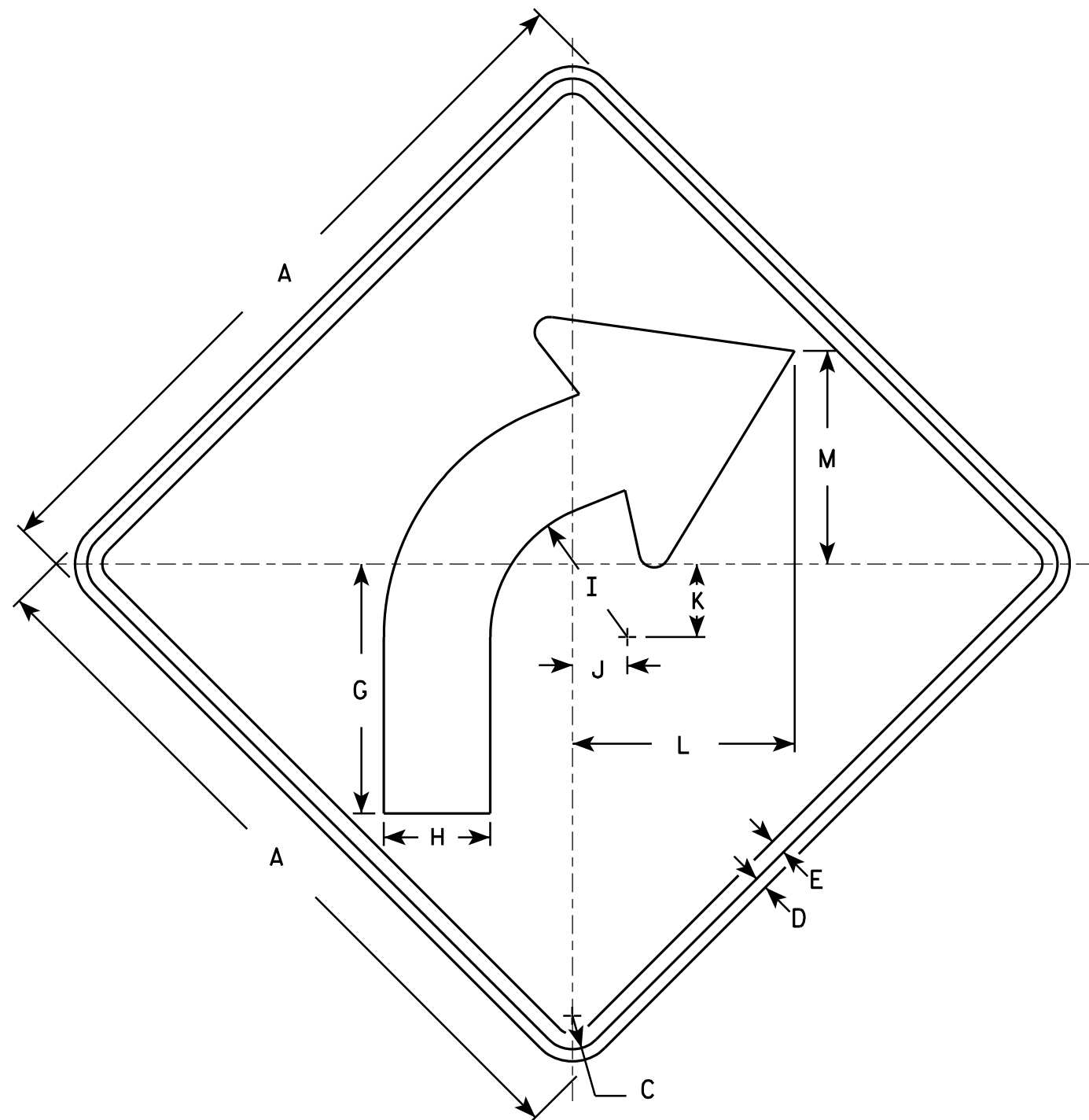
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

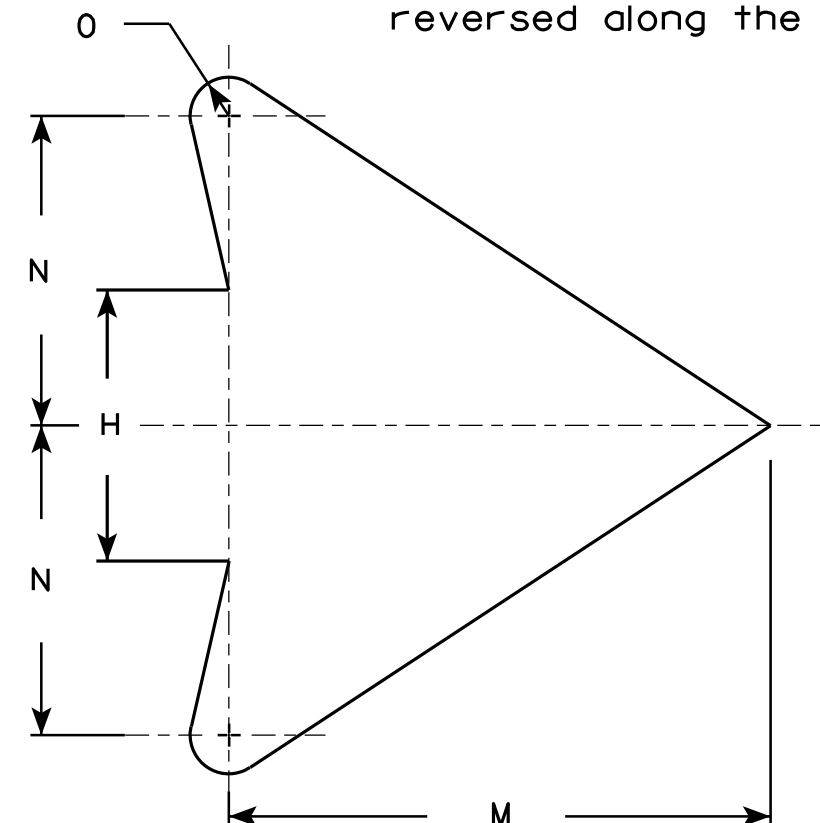
DATE 5/15/12 PLATE NO. W1-1.11

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Yellow
Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W1-2L is the same as W1-2R except the arrow is reversed along the vertical centerline.



W1-2R



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2		8 1/4	3 1/2	4 1/2	1 3/4	2 3/8	7 1/4	7	4	1/2												4.0
2S	30		1 3/8	1/2	5/8		10 1/4	4 3/8	5 5/8	2 1/4	3	9 1/8	8 3/4	5	5/8												6.25
2M	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
3	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
4	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
5	48		2 1/4	3/4	1		16 1/2	7	9	3 1/2	4 5/8	14 1/2	14	8	1												16.0

STANDARD SIGN W1-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 5/15/12 PLATE NO. W1-2.10

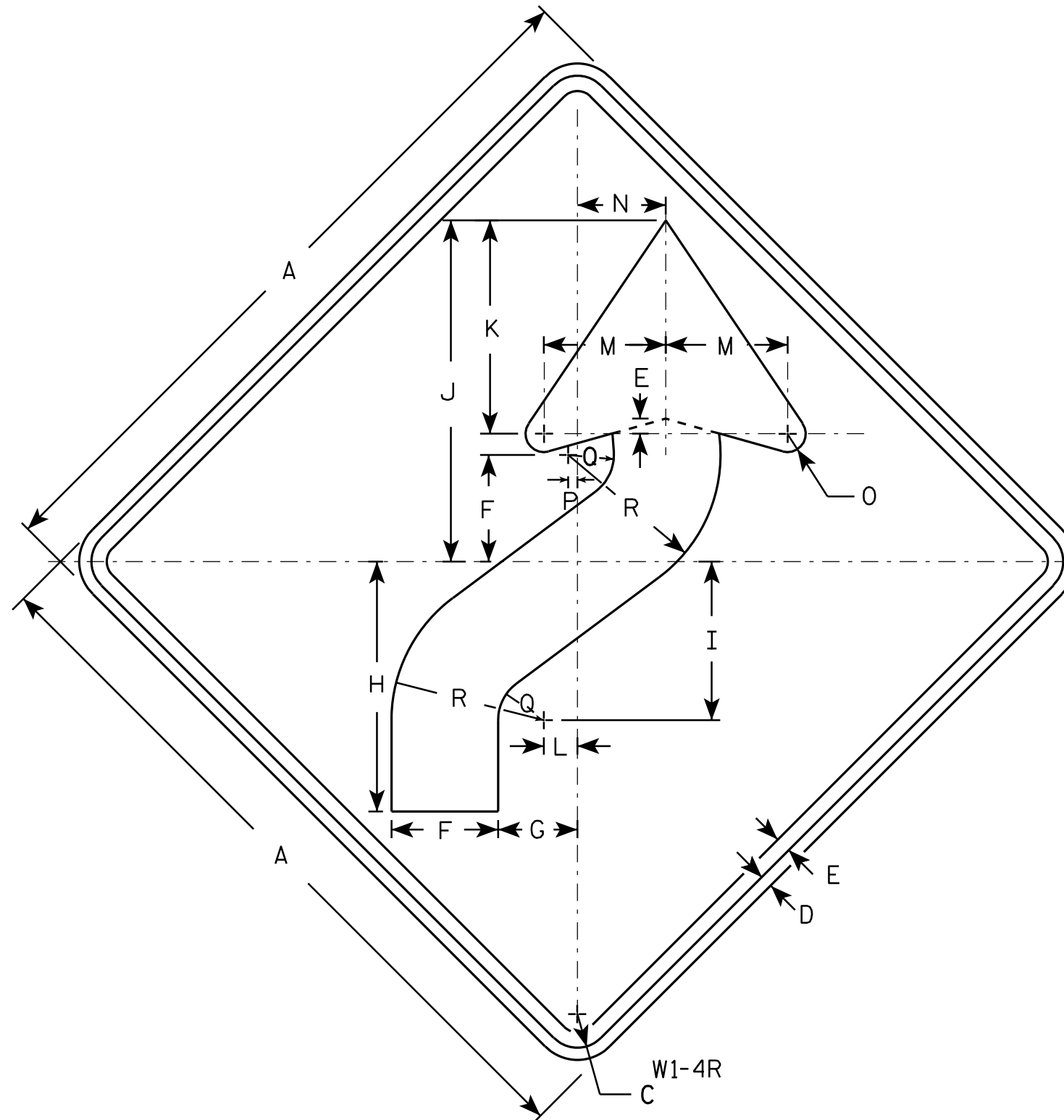
PROJECT NO:

HWY:

COUNTY:

SHEET NO: 184

E



NOTES

- Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- Color:
Background - Yellow
Message - Black
- Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- W1-4L is the same as W1-4R except the arrow is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	3 1/2	2 5/8	8 1/4	5 1/4	11 1/4	7	1 1/8	4	3	5/8	1/4	1 1/2	5									4.0
2S	30		1 3/8	1/2	5/8	4 3/8	3 1/4	10 1/4	6 1/2	14	8 3/4	1 3/8	5	3 5/8	3/4	3/8	1 7/8	6 1/4									6.25
2M	36		1 5/8	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
3	36		1 5/8	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
4	36		1 5/8	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
5	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0

STANDARD SIGN

W1 - 4

WISCONSIN DEPT OF TRANSPORTATION

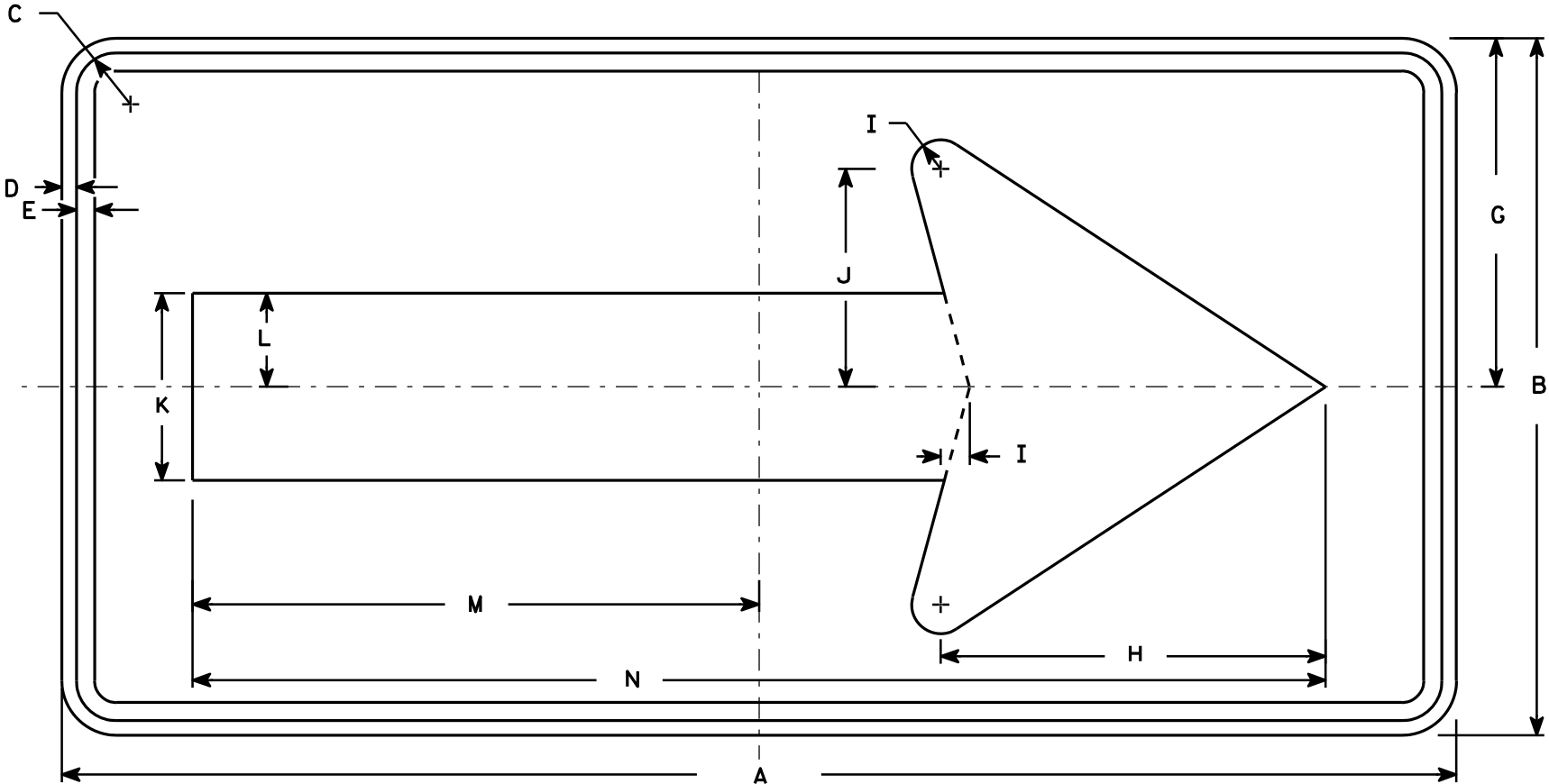
APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 5/17/12 PLATE NO. W1-4.11

PROJECT NO: HWY: COUNTY: SHEET NO: 185 E

NOTES

- 1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:
Background - Yellow
Message - Black
- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



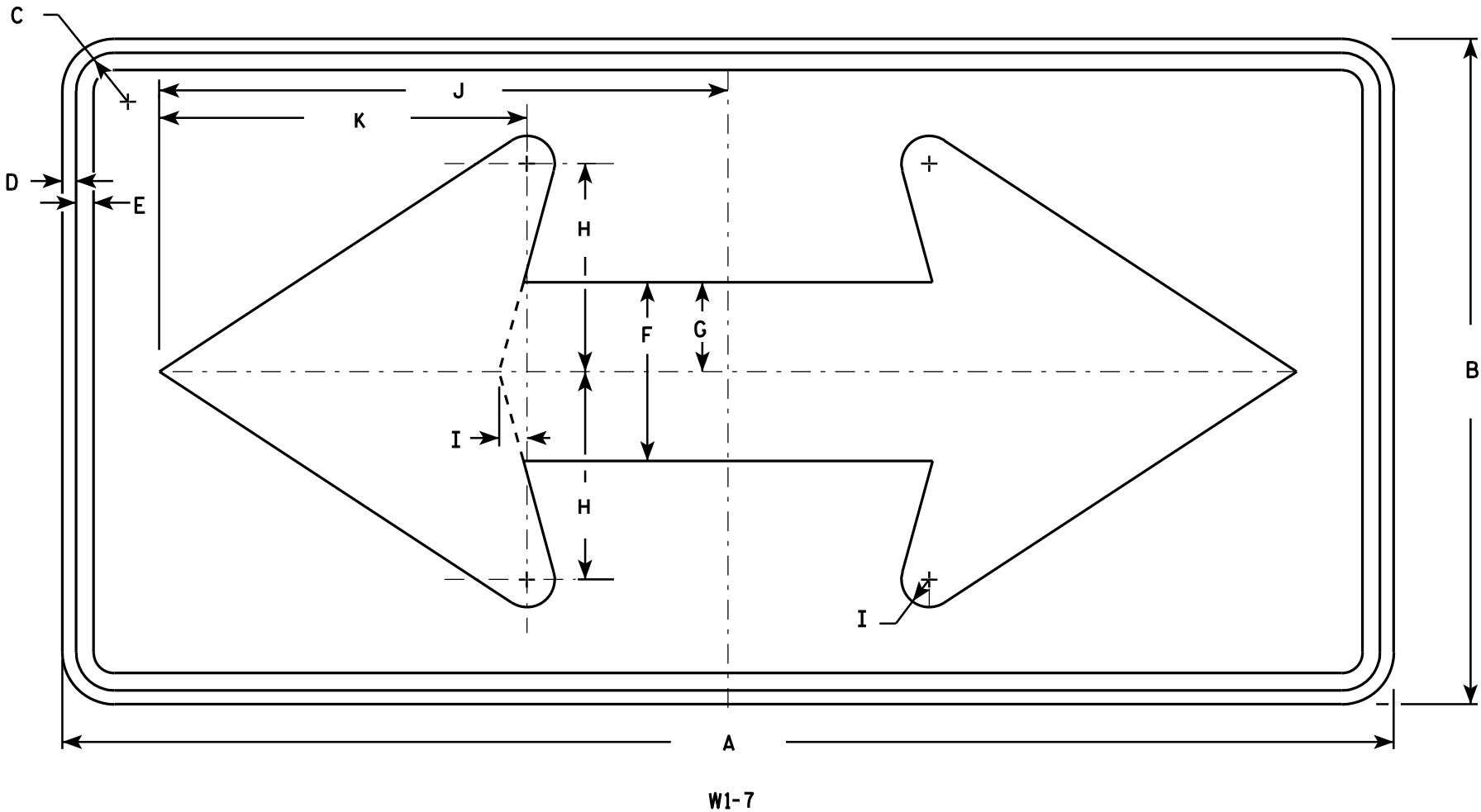
W1-6

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	18	1 1/8	3/8	3/8		9	10	3/4	5 5/8	4 3/4	2 3/8	14 5/8	29 1/4													4.5
2S	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
2M	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
3	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
4	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
5	96	48	2 1/4	3/4	1		24	26 1/2	2	15	13	6 1/2	39	78													32.0

STANDARD SIGN
W1-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer
DATE 6/7/10 PLATE NO. W1-6.8



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.

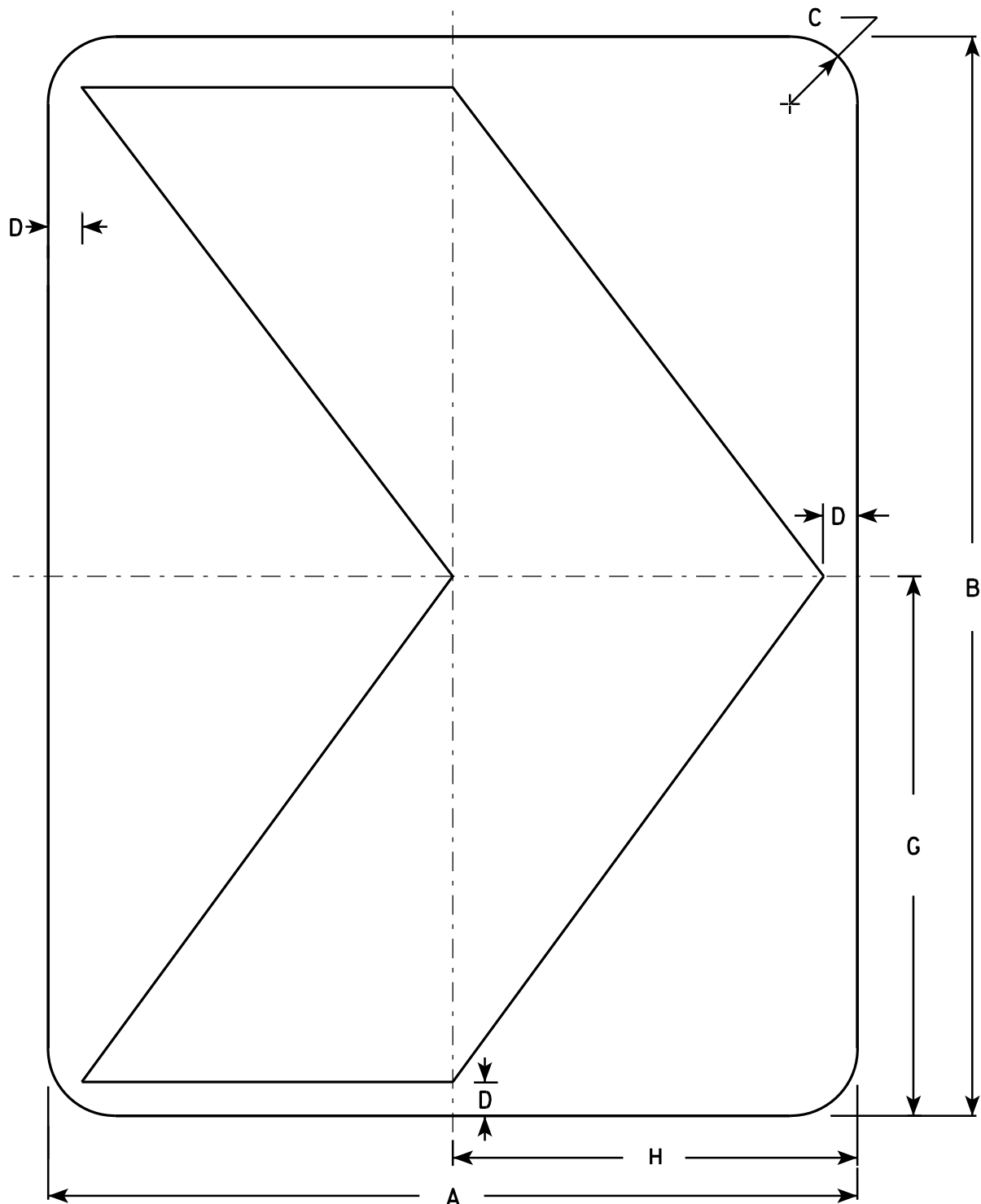
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	18	1 1/8	3/8	1/2	5	2 1/2	5 3/4	3/4	15 5/8	10 1/8																4.5
2S	48	24	1 3/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
2M	48	24	1 3/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
3	60	30	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



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Yellow
Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

W1-8

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	12	18	1 1/2	1/2			9	6																			1.5
2S	18	24	1 1/2	3/4			12	9																			3.0
2M	18	24	1 1/2	3/4			12	9																			3.0
3	24	30	1 1/2	1			15	12																			5.0
4	30	36	1 7/8	1 1/4			18	15																			7.5
5	36	48	2 1/4	1 1/2			24	18																			12.0

STANDARD SIGN

W1-8

WISCONSIN DEPT OF TRANSPORTATION

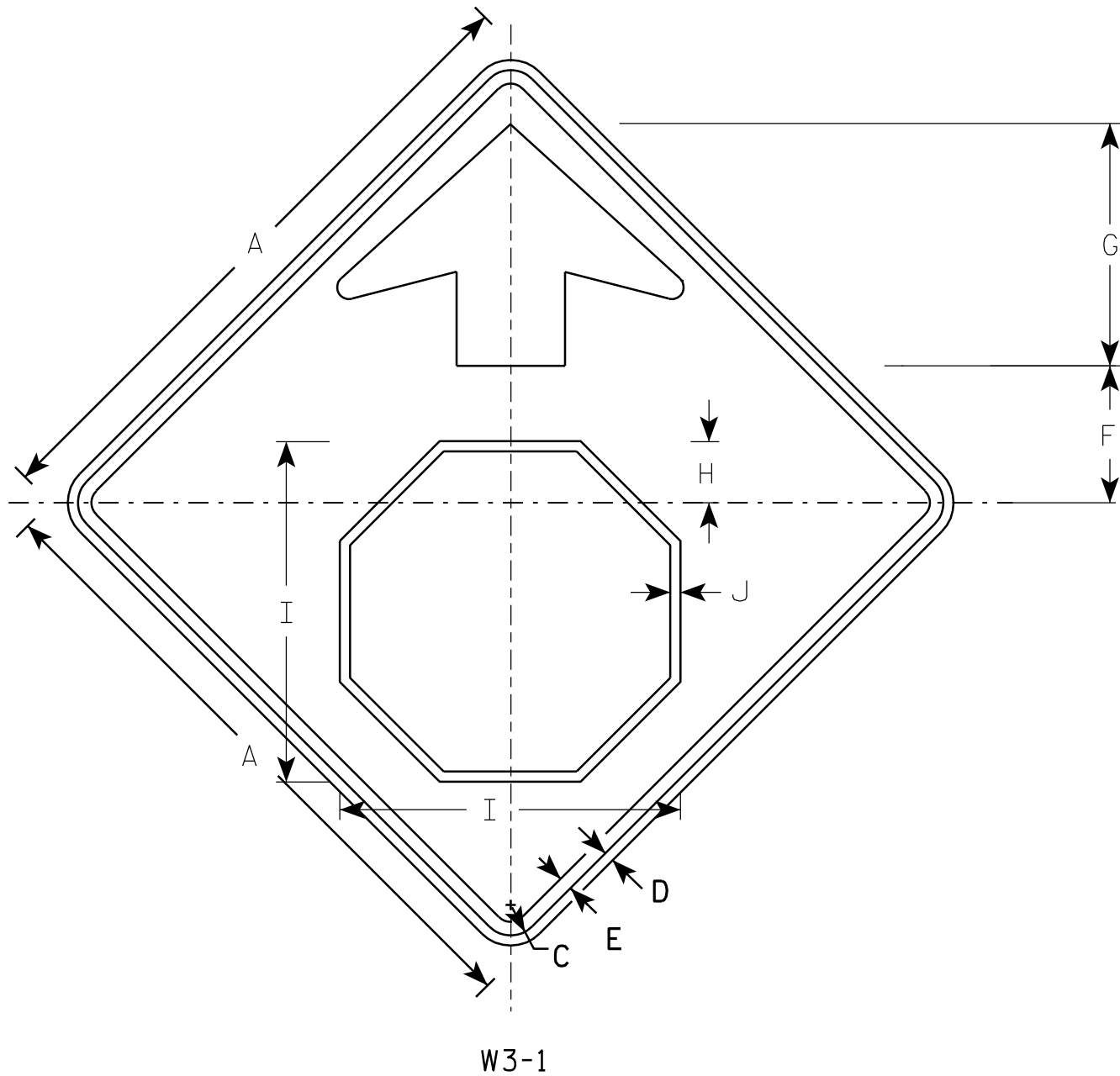
APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W1-8.6

PROJECT NO:

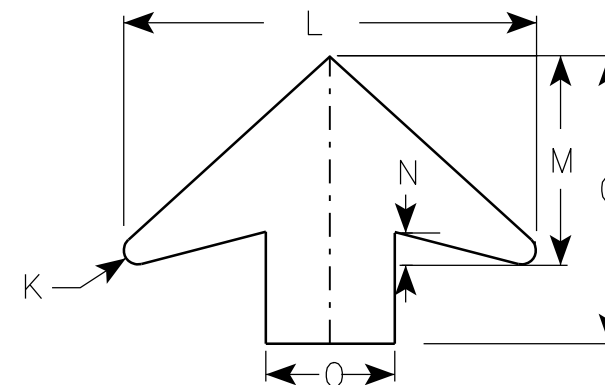
SHEET NO: 188

E



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

PROJECT NO:

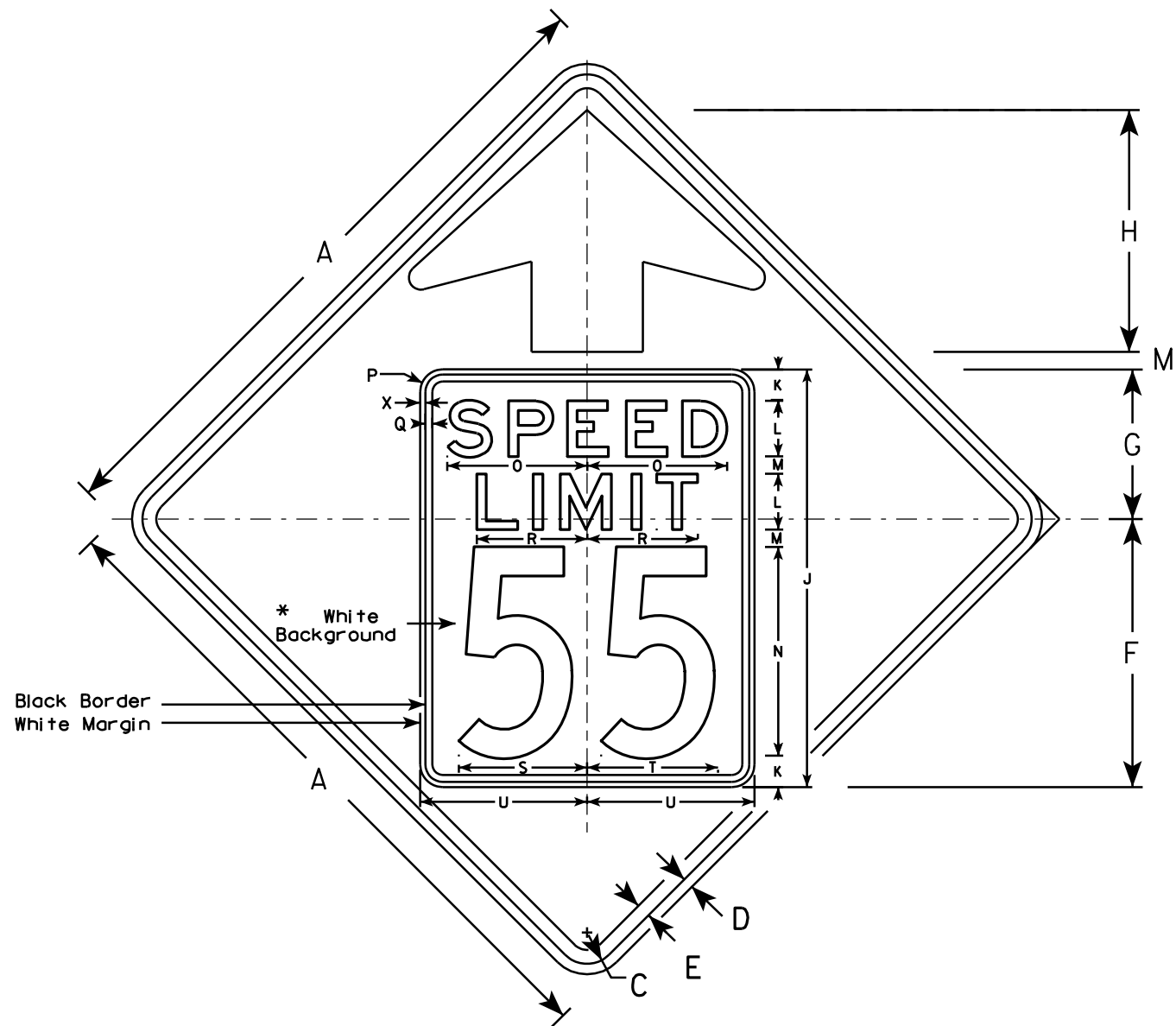
STANDARD SIGN
W3-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer
DATE 6/7/10 PLATE NO. W3-1.12

SHEET NO: 189

E

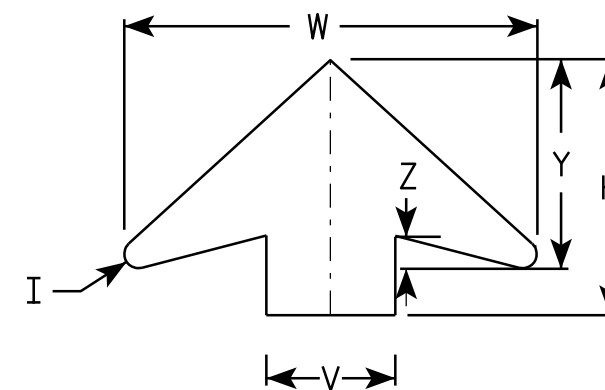


W3-5

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

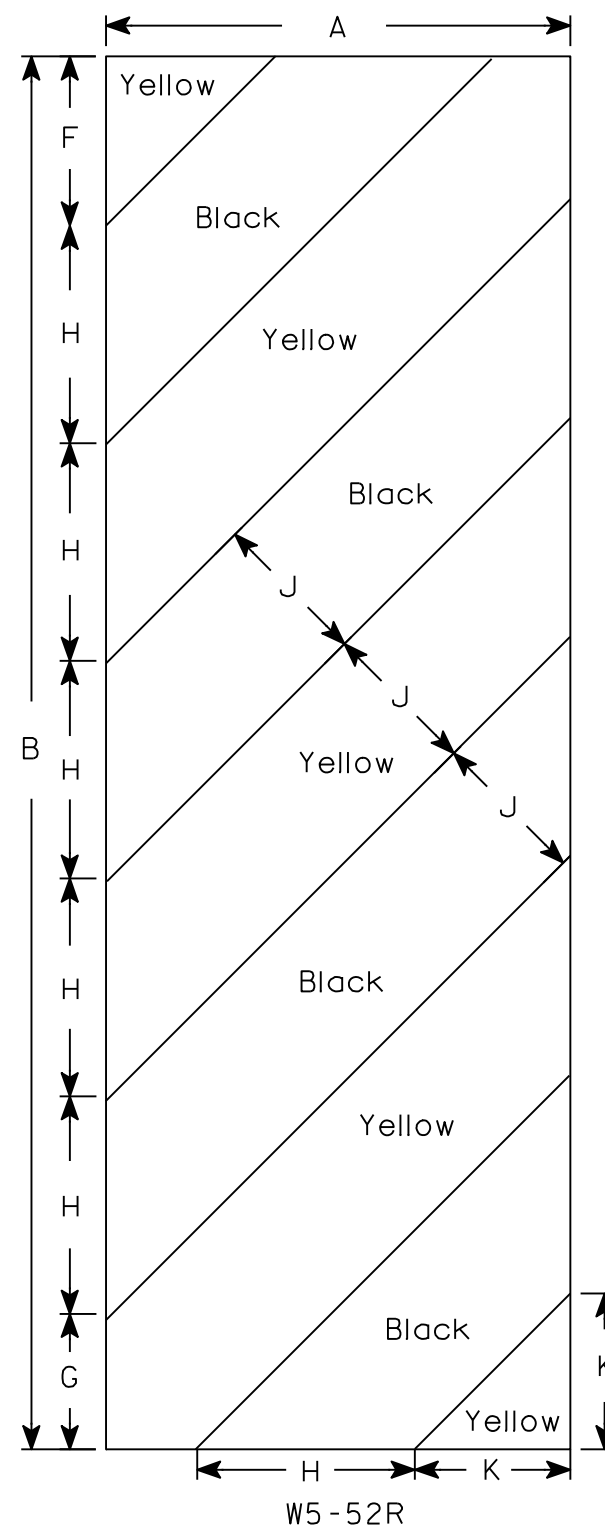
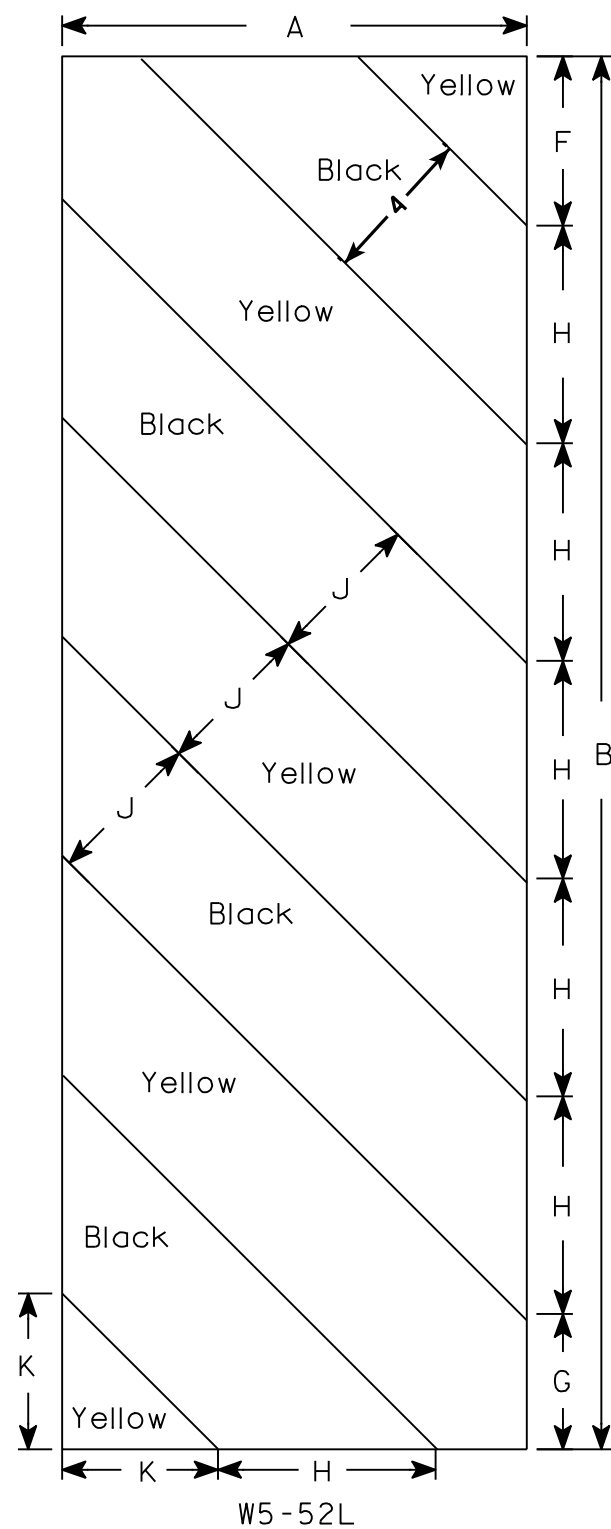
APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 5/29/12 PLATE NO. W3-5.5

PROJECT NO:

SHEET NO: 190

E



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
 - Background - Yellow
 - Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Alternate colors of stripes as shown.

[illegible]

STANDARD SIGN
W5-52L & W5-52R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer
DATE 5/29/12 PLATE NO. W5-52.9

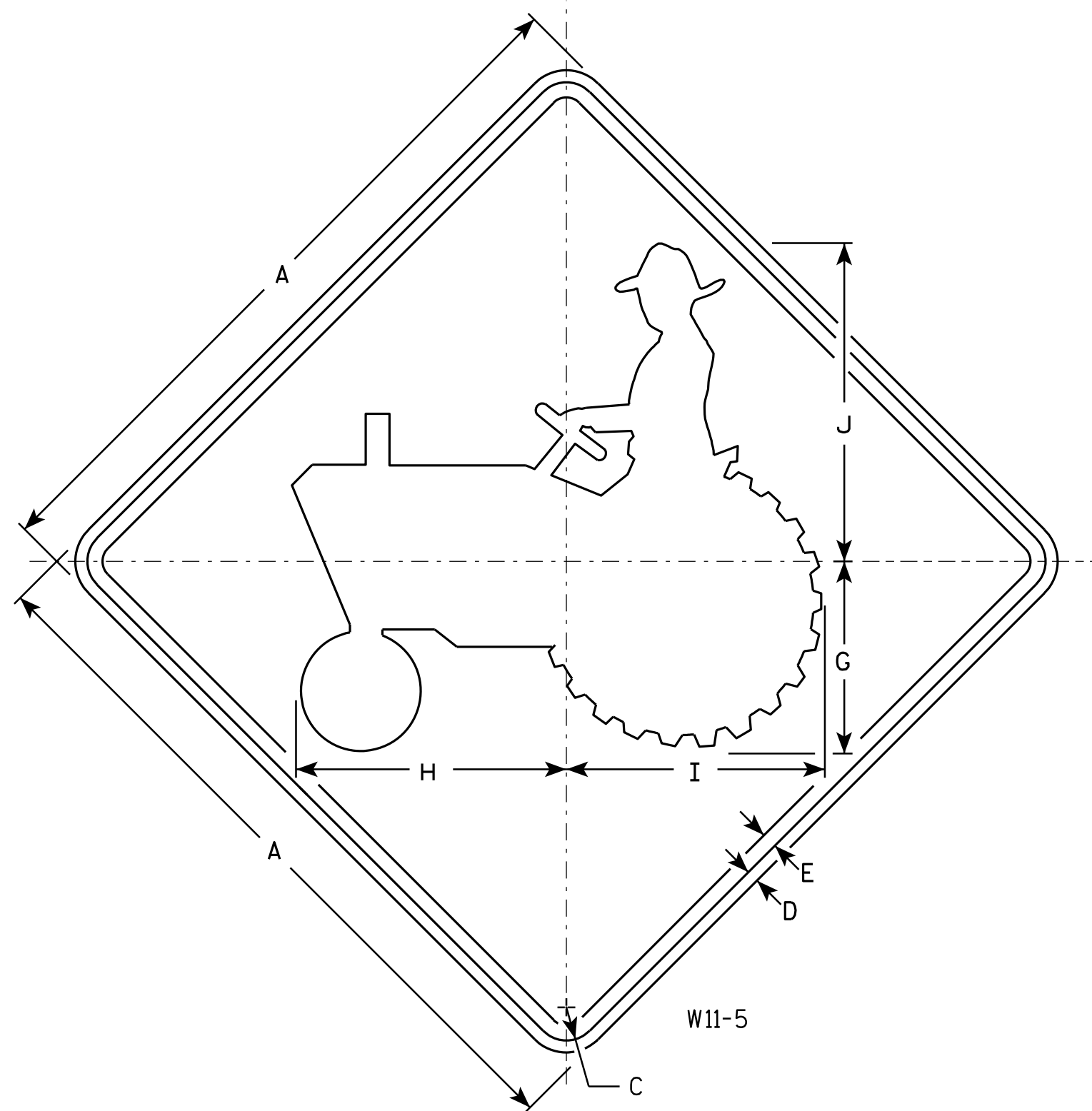
PROJECT NO:

HWY:

COUNTY:

SHEET NO: 191

E



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Yellow
Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

W11-5

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		1 1/8	3/8	1/2		6 3/8	9	8 5/8	10 5/8																	4.0
2S	30		1 3/8	1/2	5/8		8	11 1/4	10 3/4	13 1/4																	6.25
2M	30		1 3/8	1/2	5/8		8	11 1/4	10 3/4	13 1/4																	6.25
3																											
4	36		1 5/8	5/8	3/4		9 5/8	13 1/2	12 7/8	16																	9.0
5	48		2 1/4	3/4	1		12 3/4	18	17 1/4	21 1/8																	16.0

STANDARD SIGN

W11-5

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
State Traffic Engineer

DATE 3/13/13 PLATE NO. W11-5.6

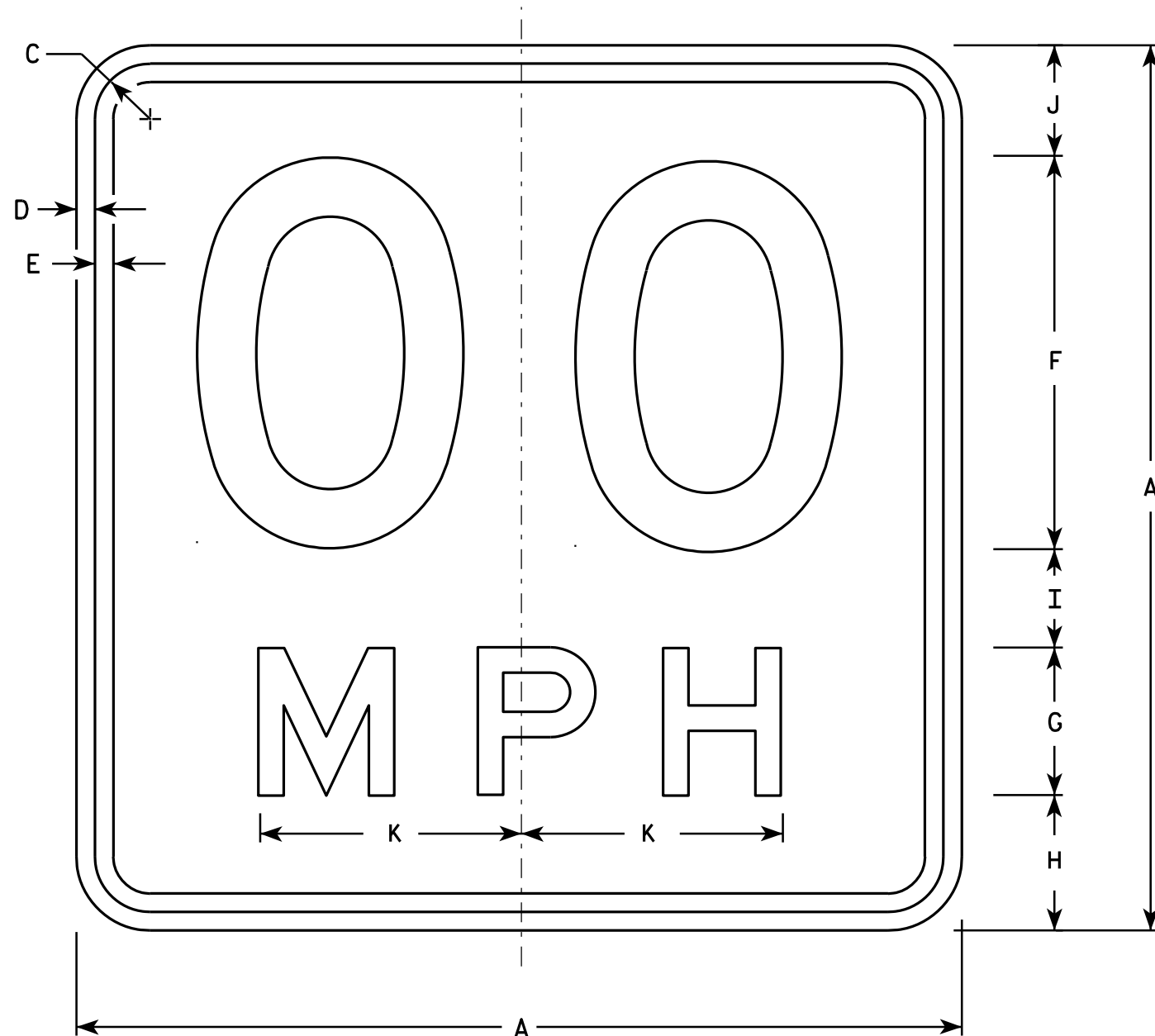
PROJECT NO:

HWY:

COUNTY:

SHEET NO: 192

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 6
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically space about centerline to achieve proper balance.
6. Line 1 is Series D
Line 2 is Series E

W13-1

- * For 30" x 30" Warning Signs, use 18" x 18" W13-1 signs.
For 36" x 36" Warning Signs, use 24" x 24" W13-1 signs.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area Sq. Ft.
1	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
* 2S	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
* 2M	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
3	24		1 1/8	3/8	1/2	10	4	4	2 3/4	3 1/4	6 5/8																4.00
4	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
5	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00

STANDARD SIGN

W13-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 5/31/12 PLATE NO. W13-1.16

PROJECT NO:

HWY:

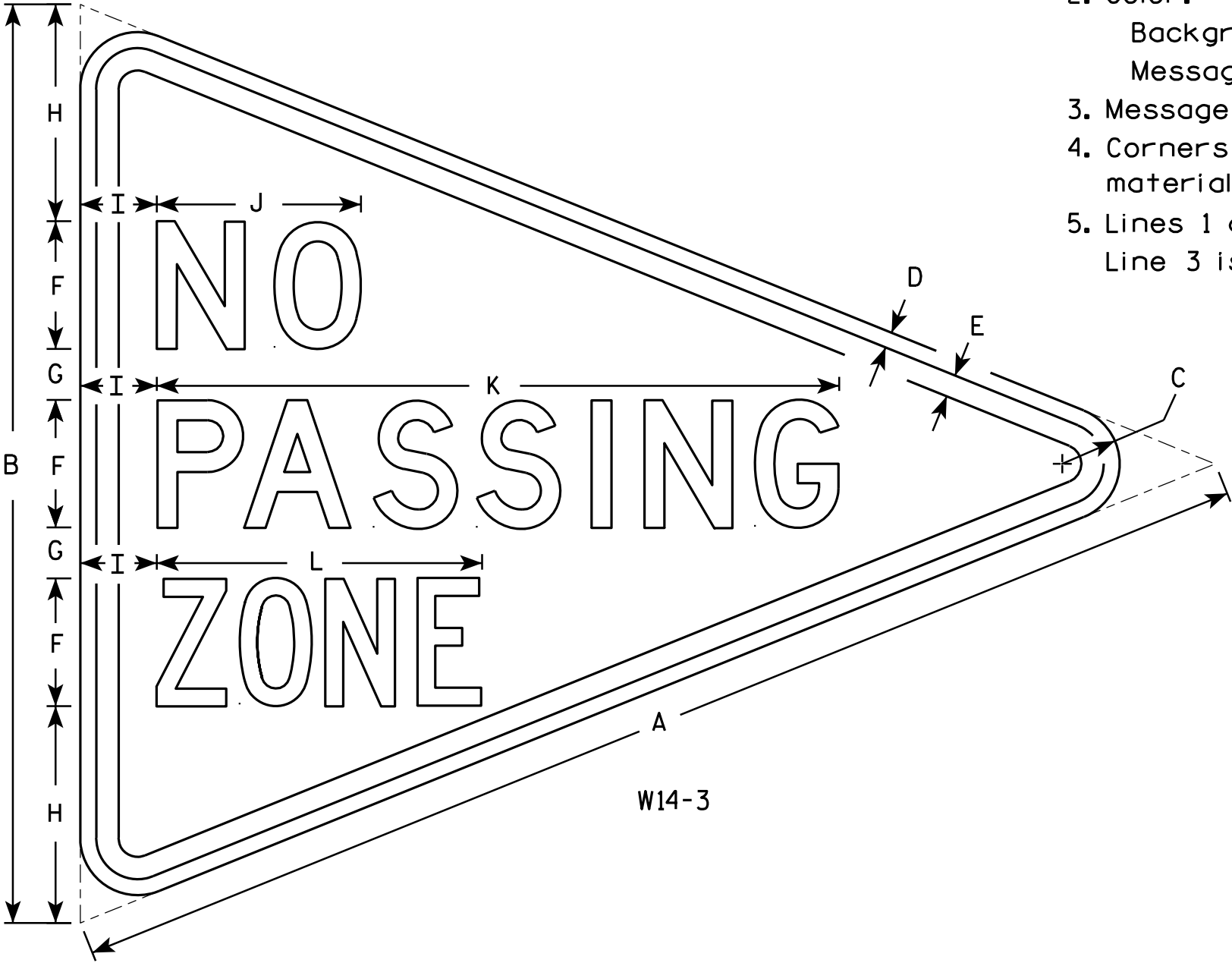
COUNTY:

SHEET NO: 193

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

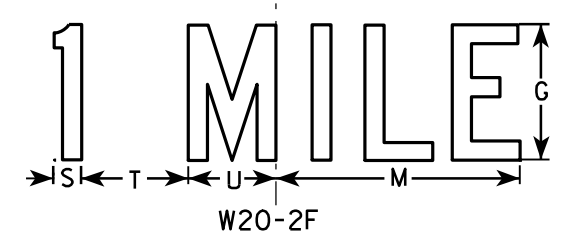
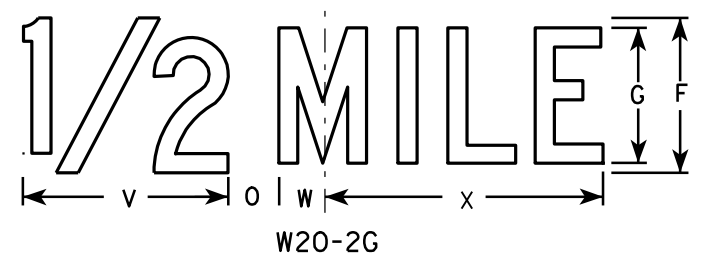
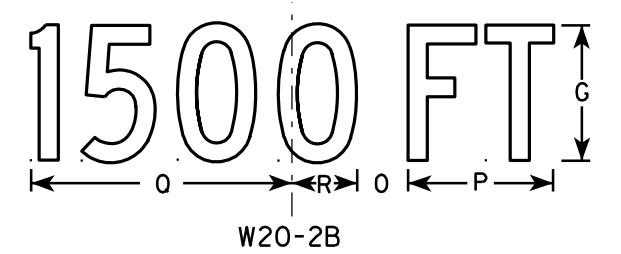
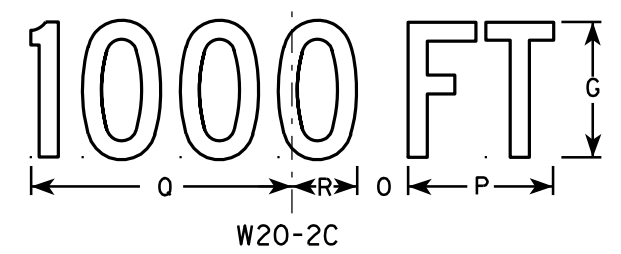
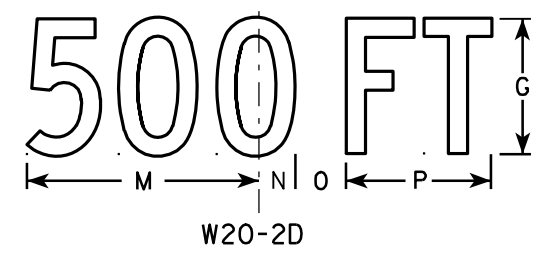
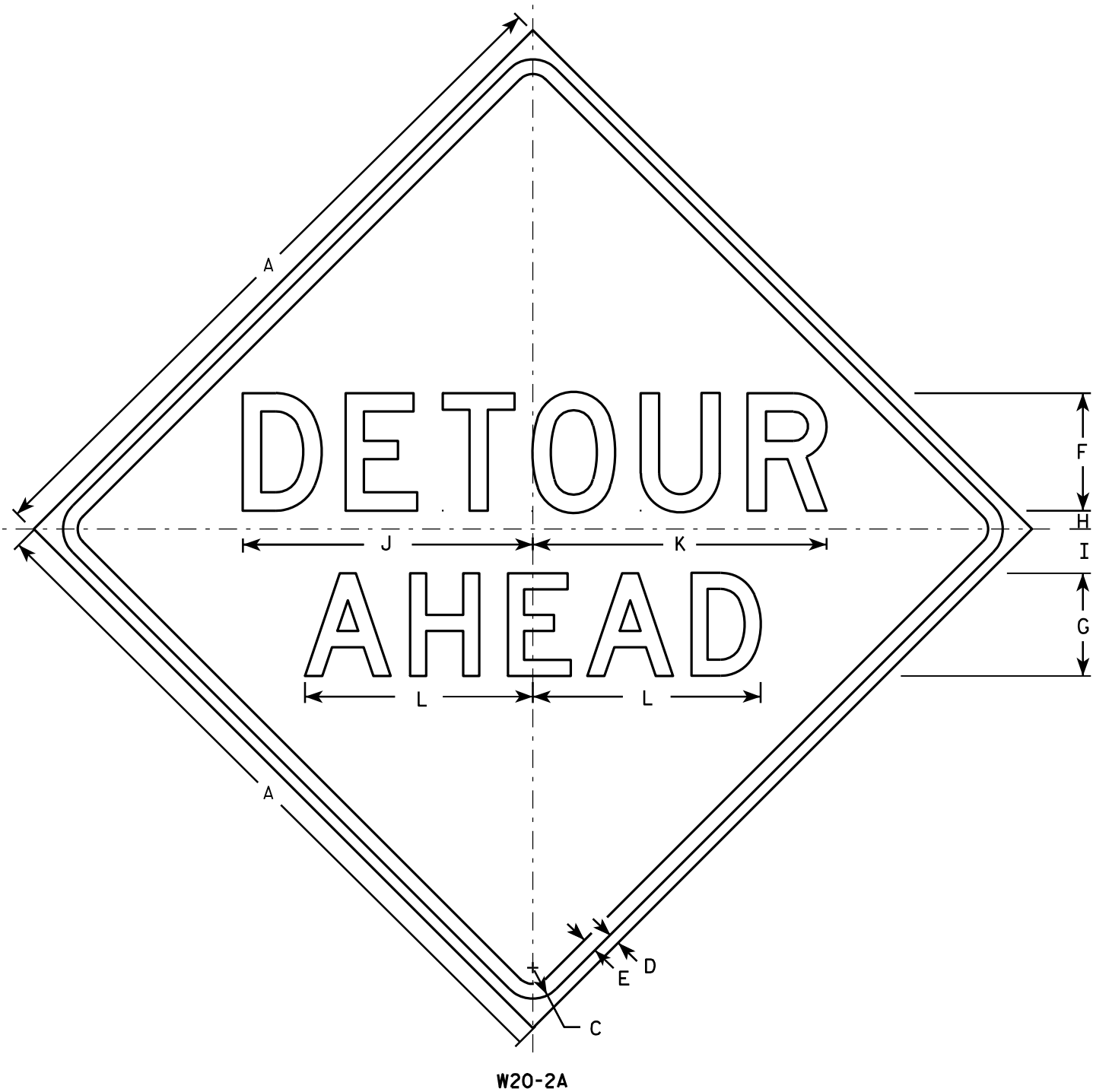
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	36	2 1/4	5/8	7/8	5	2	8 1/2	3	8	26 3/4	12 3/4															6.0
2M	48	36	2 1/4	5/8	7/8	5	2	8 1/2	3	8	26 3/4	12 3/4															6.0
3	64	48	3	3/4	1 1/4	6	3	12	4	10 3/4	33 5/8	16 1/2															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



NOTES

- 1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:
 - Background - Orange
 - Message - Black
- 3. Message Series - See note 5
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Line 1 is Series D.
Line 2 is Series D for AHEAD and Series C for all other distances.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	6	5	1	2 1/4	14 3/4	15	11 5/8	9	1 3/8	1 7/8	5 5/8	10 1/8	2 1/2	1 1/8	4 1/2	3 1/2	8	1 3/4	10 3/4			9.0
2S	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
2M	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
3	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
4	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
5	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0

STANDARD SIGN
W20-2A,B,C,D,F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-2.6

PROJECT NO:

HWY:

COUNTY:

SHEET NO: 195

E

EARTHWORK SUMMARY

Division	From/To Station	Location	CUT SECTION		FILL SECTION		Mass Ordinate +/- (14)	Waste	Borrow (item #208.0100)	Comment:
			Common Excavation (1)	Available Material (5)	Unexpanded Fill	Expanded Fill (13)				
			Cut (2)			Factor 1.30				
STH 187	20+60 - 22+34	STH 187	41	41	15	19	22	22		BEAMGAURD - STONEBRIDGE RD
STH 187	90+50 - 91+50	STH 187	46	46	51	67	-21	0		CROSSPIPE
STH 187	98+50 - 100+00	STH 187	69	69	111	144	-74	0		CROSSPIPE
STH 187	106+00 - 107+00	STH 187	40	40	43	56	-17	0		CROSSPIPE
STH 187	112+01 - 123+52	STH 187	1,202	1,202	489	636	565	565		BEAMGAURD
STH 187	123+52 - 129+94	STH 187	712	712	254	330	382	382		BEAMGAURD
STH 187	168+50 - 170+00	STH 187	63	63	102	132	-69	0		CROSSPIPE
STH 187	180+50 - 184+00	STH 187	225	225	90	117	108	108		CROSSPIPE
STH 187	209+50 - 211+50	STH 187	53	53	135	175	-122	0		CROSSPIPE
STH 187	219+00 - 220+50	STH 187	37	37	75	97	-60	0		CROSSPIPE
STH 187	223+00 - 224+50	STH 187	226	226	11	15	211	211		CROSSPIPE
STH 187	258+00 - 259+50	STH 187	96	96	23	30	65	65		CROSSPIPE
STH 187	265+00 - 266+50	STH 187	96	96	7	9	87	87		CROSSPIPE
STH 187	272+00 - 273+50	STH 187	89	89	34	44	45	45		CROSSPIPE
STH 187	288+50 - 290+50	STH 187	69	69	76	99	-31	0		CROSSPIPE
STH 187	318+00 - 319+50	STH 187	28	28	50	65	-37	0		CROSSPIPE
STH 187	332+50 - 334+00	STH 187	27	27	46	60	-33	0		CROSSPIPE
STH 187	389+50 - 391+50	STH 187	153	153	52	67	85	85		CROSSPIPE
STH 187	488+00 - 490+00	STH 187	99	99	78	101	-2	0		CROSSPIPE
STH 187	506+50 - 508+50	STH 187	97	97	28	36	61	61		CROSSPIPE
STH 187	537+48 - 544+70	STH 187	1,003	1,003	1,577	2,050	-1,047	0		BEAMGAURD/CROSSPIPE
STH 187	571+00 - 573+00	STH 187	334	334	279	363	-29	0		CROSSPIPE
STH 187	597+00 - 599+00	STH 187	126	126	125	163	-37	0		CROSSPIPE
STH 187	605+00 - 606+50	STH 187	97	97	99	128	-31	0		CROSSPIPE
Grand Total			5,026	5,026	3,850	5,004	21	1,630	0	
			Total Common Exc							

1) Common Excavation is the sum of the Cut and EBS Excavation columns. Item number 205.0100
2) Salvaged/Unsuable Pavement Material is included in Cut.
5) Available Material = Cut - Salvaged/Unusuable Pavement Material
13) Expanded Fill. Factor = 1.30
14) The Mass Ordinate + or - Qty calculated for the Division. Plus quantity indicates an excess of material within the Division. Minus indicates a shortage of material within the Division.

STH 187

STATION	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		Mass Ordinate
		Cut	Fill	Cut	Fill	Cut	Expanded Fill	
				Note 1	Note 3	1.00 Note 1	1.30	Note 8
20+59.58		10	0					
20+90.13	31	7	1	10	1	10	1	8.76
21+15.12	25	6	2	6	2	16	3	13.11
21+50.00	35	6	2	8	3	24	7	17.60
22+00.00	50	5	5	10	6	122	15	19.56
22+33.62	34	5	0	6	3	182	19	21.68

4115

STATION	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		Mass Ordinate
		Cut	Fill	Cut	Fill	Cut	Expanded Fill	
				Note 1	Note 3	1.00 Note 1	1.30	Note 8
90+50.00		9	15					
91+00.00	50	8	24	15	36	15	47	-31.55
91+10.00	10	25	0	6	5	22	53	-31.29
91+50.00	40	7	14	24	11	46	67	-20.95

4651

STATION	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		Mass Ordinate
		Cut	Fill	Cut	Fill	Cut	Expanded Fill	
				Note 1	Note 3	1.00 Note 1	1.30	Note 8
98+50.00		10	8					
99+00.00	50	6	20	15	26	15	33	-18.76
99+24.00	24	23	26	13	21	27	60	-32.94
99+50.00	26	10	27	16	26	43	94	-50.79
100+00.00	50	18	14	26	39	69	144	-74.46

69111

STATION	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		Mass Ordinate
		Cut	Fill	Cut	Fill	Cut	Expanded Fill	
				Note 1	Note 3	1.00 Note 1	1.30	Note 8
106+00.00		4	4					
106+50.00	50	5	17	8	19	8	25	-17.21
106+76.00	26	27	14	16	15	23	45	-21.10
107+00.00	24	9	6	16	9	40	56	-16.65

4043

STATION	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		Mass Ordinate
		Cut	Fill	Cut	Fill	Cut 1.00	Expanded Fill 1.30	
				Note 1	Note 3	Note 1		Note 8
112+00.82		25	0					
112+50.00	49	10	0	32	0	32	0	31.78
113+00.00	50	9	4	18	3	50	4	45.52
113+50.00	50	9	8	17	10	66	18	48.69
113+86.09	36	10	12	13	13	79	35	44.03
114+11.53	25	12	7	11	9	90	47	43.06
114+36.93	25	15	3	13	4	102	52	50.01
114+58.99	22	30	7	18	4	121	57	63.20
115+00.00	41	28	0	44	5	164	64	100.26
115+50.00	50	71	0	91	0	255	64	191.19
116+00.00	50	106	0	164	0	419	64	354.69
116+50.00	50	72	0	165	0	584	64	519.72
117+00.00	50	71	13	133	12	716	80	636.76
117+60.69	61	17	145	99	177	42,231	310	505.35
117+85.67	25	19	42	17	87	49,192	423	409.27
118+10.65	25	20	49	18	42	56,626	478	372.29
118+50.00	39	20	23	29	52	68,852	545	334.05
119+00.00	50	20	2	37	23	84,542	575	341.60
119+50.00	50	24	3	41	5	101,849	581	376.35
119+96.73	47	38	1	54	4	124,568	586	425.63
120+50.00	53	11	0	48	1	144,873	588	472.61
121+00.00	50	17	0	26	0	155,566	588	498.15
121+26.33	26	17	0	17	0	155,582	588	514.66
121+51.31	25	12	0	13	0	155,596	588	527.90
121+76.29	25	10	14	10	6	155,605	596	529.60
122+00.00	24	10	10	9	11	578,732	610	524.44
122+50.00	50	9	6	17	15	578,749	629	522.08
123+00.00	50	11	0	19	5	578,768	636	533.82
123+51.98	52	22	0	32	0	578,799	636	565.47
				1,202	489			

STATION	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		Mass Ordinate
		Cut	Fill	Cut	Fill	Cut 1.00	Expanded Fill 1.30	
				Note 1	Note 3	Note 1		Note 8
123+51.98		22	0					
123+91.44	39	27	0	35	0	35	0	35.29
124+50.00	59	47	0	79	0	115	0	114.76
124+90.09	40	20	9	49	7	164	9	154.99
125+15.07	25	20	7	19	7	183	19	163.91
125+39.94	25	24	13	21	9	203	30	172.70
125+40.05	0	24	13	0	0	203	31	172.73
125+64.92	25	28	10	24	11	227	44	183.13
125+89.90	25	32	12	28	10	255	58	197.36
126+00.00	10	37	16	13	5	268	65	203.21
126+50.00	50	24	85	57	94	325	187	138.01
127+00.00	50	30	17	50	94	375	309	65.80
127+46.20	46	37	0	57	14	432	328	104.76
127+71.11	25	34	0	33	0	7,162	328	137.88
127+96.02	25	31	2	30	1	13,262	329	166.80
127+96.38	0	31	2	0	0	13,345	329	167.17
128+21.42	25	29	0	28	1	18,977	330	193.84
128+46.47	25	31	0	28	0	24,595	330	221.48
129+00.00	54	34	0	64	0	24,659	330	285.04
129+45.76	46	33	0	57	0	24,715	330	341.63
129+93.97	48	12	0	40	0	24,756	330	382.08
				712	254			

STATION	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		Mass Ordinate
		Cut	Fill	Cut	Fill	Cut 1.00 Note 1	Expanded Fill 1.30	
168+50.00		30	6					
169+00.00	50	1	41	29	43	29	56	-27.33
169+23.00	23	26	0	12	18	40	79	-38.58
169+50.00	27	5	26	16	13	56	96	-39.84
170+00.00	50	2	4	7	28	63	132	-68.94
				63	102			

STATION	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		Mass Ordinate
		Cut	Fill	Cut	Fill	Cut 1.00 Note 1	Expanded Fill 1.30	
180+50.00		1	3					
181+00.00	50	12	5	12	7	12	10	2.09
181+50.00	50	28	8	37	12	49	25	23.14
182+00.00	50	30	7	53	13	102	43	59.27
182+50.00	50	13	10	39	15	141	62	79.16
183+00.00	50	15	11	26	19	167	87	80.25
183+50.00	50	23	5	36	15	203	107	95.90
184+00.00	50	0	3	21	7	225	117	107.64
				225	90			

STATION	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		Mass Ordinate
		Cut	Fill	Cut	Fill	Cut 1.00 Note 1	Expanded Fill 1.30	
209+50.00		16	3					
210+00.00	50	13	42	27	42	27	55	-27.48
210+52.45	52	0	0	13	41	40	108	-67.89
211+00.00	48	4	26	4	23	44	138	-93.57
211+50.00	50	6	5	9	29	53	175	-121.68
				53	135			

STATION	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		Mass Ordinate
		Cut	Fill	Cut	Fill	Cut 1.00 Note 1	Expanded Fill 1.30	
219+00.00		1	19					
219+50.00	50	0	8	1	25	1	33	-31.68
219+64.00	14	27	0	7	2	8	36	-27.40
220+00.00	36	4	26	20	17	29	58	-29.51
220+50.00	50	5	7	8	30	37	97	-60.06
				37	75			

STATION	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		Mass Ordinate
		Cut	Fill	Cut	Fill	Cut 1.00 Note 1	Expanded Fill 1.30	
223+00.00		48	1					
223+50.00	50	61	3	101	4	101	5	96.17
224+00.00	50	27	0	82	3	183	9	173.60
224+50.00	50	19	4	43	4	226	15	210.80
				226	11			

STATION	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		Mass Ordinate
		Cut	Fill	Cut	Fill	Cut	Expanded Fill	
				Note 1	Note 3	1.00 Note 1	1.30	
258+00.00		1	0					
258+50.00	50	23	4	22	4	22	5	17.56
258+97.33	47	32	0	48	3	71	9	61.57
259+00.00	3	19	14	3	1	73	10	63.22
259+50.00	50	6	4	23	16	96	30	65.17

9623

STATION	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		Mass Ordinate
		Cut	Fill	Cut	Fill	Cut	Expanded Fill	
				Note 1	Note 3	1.00 Note 1	1.30	
265+00.00		12	2					
265+50.00	50	26	1	36	3	36	3	32.34
265+91.00	41	29	0	42	1	77	4	73.38
266+00.00	9	8	2	6	0	83	4	79.05
266+50.00	50	6	2	12	4	96	9	86.55

967

STATION	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		Mass Ordinate
		Cut	Fill	Cut	Fill	Cut	Expanded Fill	
				Note 1	Note 3	1.00 Note 1	1.30	
272+00.00		3	2					
272+50.00	50	32	6	32	7	32	9	23.71
272+70.53	21	26	0	22	2	54	11	42.98
273+00.00	29	8	15	19	8	73	22	51.15
273+50.00	50	8	3	16	17	89	44	44.56

8934

STATION	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		Mass Ordinate
		Cut	Fill	Cut	Fill	Cut	Expanded Fill	
				Note 1	Note 3	1.00 Note 1	1.30	
288+50.00		1	0					
289+00.00	50	7	11	8	10	8	13	-5.64
289+50.00	50	11	22	17	30	24	52	-28.32
289+72.57	23	29	0	17	9	41	64	-23.63
290+00.00	27	8	15	19	8	59	74	-14.87
290+50.00	50	1	5	9	19	69	99	-30.50

6976

STATION	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		Mass Ordinate
		Cut	Fill	Cut	Fill	Cut	Expanded Fill	
				Note 1	Note 3	1.00 Note 1	1.30	
318+00.00		1	3					
318+50.00	50	2	26	2	27	2	35	-32.12
318+60.33	10	28	0	6	5	8	41	-32.91
319+00.00	40	0	4	20	3	28	44	-16.11
319+50.00	50	0	14	0	16	28	65	-36.81

2850

STATION	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		Mass Ordinate
		Cut	Fill	Cut	Fill	Cut	Expanded Fill	
				Note 1	Note 3	1.00 Note 1	1.30	Note 8
332+50.00		0	3					
333+00.00	50	0	13	0	15	0	20	-19.98
333+21.71	22	26	0	11	5	11	27	-16.46
333+27.84	6	26	0	6	0	17	27	-10.52
333+50.00	22	0	12	11	5	27	33	-6.15
334+00.00	50	0	10	0	21	27	60	-32.91
				27	46			

STATION	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		Mass Ordinate
		Cut	Fill	Cut	Fill	Cut	Expanded Fill	
				Note 1	Note 3	1.00 Note 1	1.30	Note 8
389+50.00		21	4					
390+00.00	50	9	16	27	19	27	24	3.37
390+51.45	51	28	0	35	16	62	45	17.47
391+00.00	49	21	7	44	6	106	53	53.25
391+50.00	50	29	5	47	11	153	67	85.33
				153	52			

STATION	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		Mass Ordinate
		Cut	Fill	Cut	Fill	Cut	Expanded Fill	
				Note 1	Note 3	1.00 Note 1	1.30	Note 8
488+00.00		4	12					
488+50.00	50	13	16	15	26	15	34	-18.56
489+03.58	54	28	2	40	18	55	57	-2.30
489+11.50	8	25	1	8	0	63	58	4.95
489+50.00	39	10	15	25	11	88	73	14.87
490+00.00	50	3	8	12	22	99	101	-1.98
				99	78			

STATION	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		Mass Ordinate
		Cut	Fill	Cut	Fill	Cut	Expanded Fill	
				Note 1	Note 3	1.00 Note 1	1.30	Note 8
506+50.00		12	3					
507+00.00	50	5	5	15	7	15	9	6.21
507+48.05	48	28	0	29	4	45	15	29.69
508+00.00	52	7	8	33	8	78	25	53.28
508+50.00	50	14	2	19	9	97	36	61.09
				97	28			

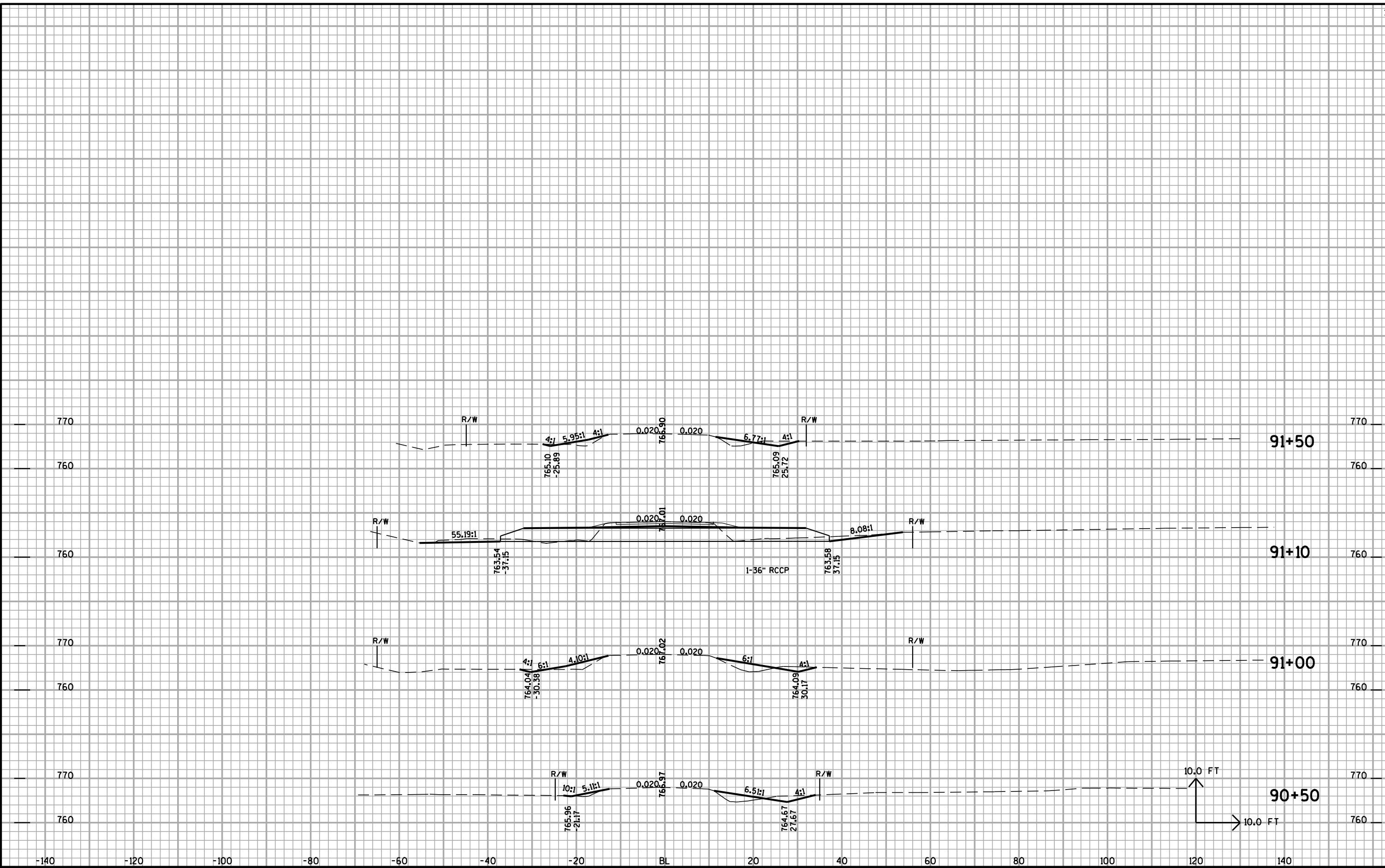
STATION	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		Mass Ordinate
		Cut	Fill	Cut	Fill	Cut 1.00 Note 1	Expanded Fill 1.30	
537+48.00		5.75	0.00					
537+50.00	2	7.16	0.00	0	0	0	0	0.48
537+75.00	25	8.46	0.00	7	0	8	0	7.71
538+00.00	25	15.89	0.00	11	0	19	0	18.98
538+25.00	25	27.05	0.00	20	0	39	0	38.86
538+50.00	25	46.43	0.00	34	0	73	0	72.88
538+75.00	25	67.29	0.00	53	0	126	0	125.53
539+00.00	25	82.72	0.00	69	0	195	0	194.98
539+25.00	25	98.17	0.00	84	0	279	0	278.72
539+50.00	25	104.53	0.00	94	0	373	0	372.57
539+75.00	25	80.56	1.83	86	1	458	1	457.16
540+00.00	25	78.45	2.54	74	2	532	4	528.15
540+25.00	25	83.70	3.15	75	3	607	7	599.79
540+50.00	25	25.97	7.33	51	5	658	13	644.26
540+75.00	25	8.40	71.88	16	37	674	61	612.50
541+00.00	25	6.77	237.24	7	143	681	247	433.48
541+25.00	25	5.88	406.39	6	298	686	635	51.96
541+50.00	25	16.80	361.46	10	355	697	1,097	-399.67
541+75.00	25	14.62	272.34	15	293	712	1,478	-766.58
542+00.00	25	14.82	188.04	14	213	725	1,755	-1,030.03
542+25.00	25	14.55	87.56	14	128	739	1,921	-1,182.30
542+50.00	25	42.77	34.55	27	57	765	1,995	-1,229.25
542+75.00	25	26.74	14.74	32	23	797	2,024	-1,226.73
543+00.00	25	17.38	7.01	20	10	818	2,037	-1,219.40
543+25.00	25	9.51	2.38	12	4	830	2,043	-1,212.61
543+50.00	25	14.95	0.28	11	1	842	2,045	-1,202.88
543+75.00	25	20.89	0.06	17	0	858	2,045	-1,186.49
544+00.00	25	49.93	1.16	33	1	891	2,046	-1,154.44
544+25.00	25	46.14	1.49	44	1	936	2,047	-1,111.56
544+50.00	25	44.06	1.52	42	1	977	2,049	-1,071.61
544+70.00	20	24.82	0.92	26	1	1,003	2,050	-1,047.27
				1,003	1,577			

STATION	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		Mass Ordinate
		Cut	Fill	Cut	Fill	Cut 1.00 Note 1	Expanded Fill 1.30	
571+00.00		120	0					
571+50.00	50	51	21	158	20	158	25	132.30
572+00.00	50	30	59	74	74	232	122	110.46
572+28.52	29	26	27	29	45	262	181	80.92
572+50.00	21	23	64	19	36	281	228	53.22
573+00.00	50	34	48	53	104	334	363	-28.85
				334	279			

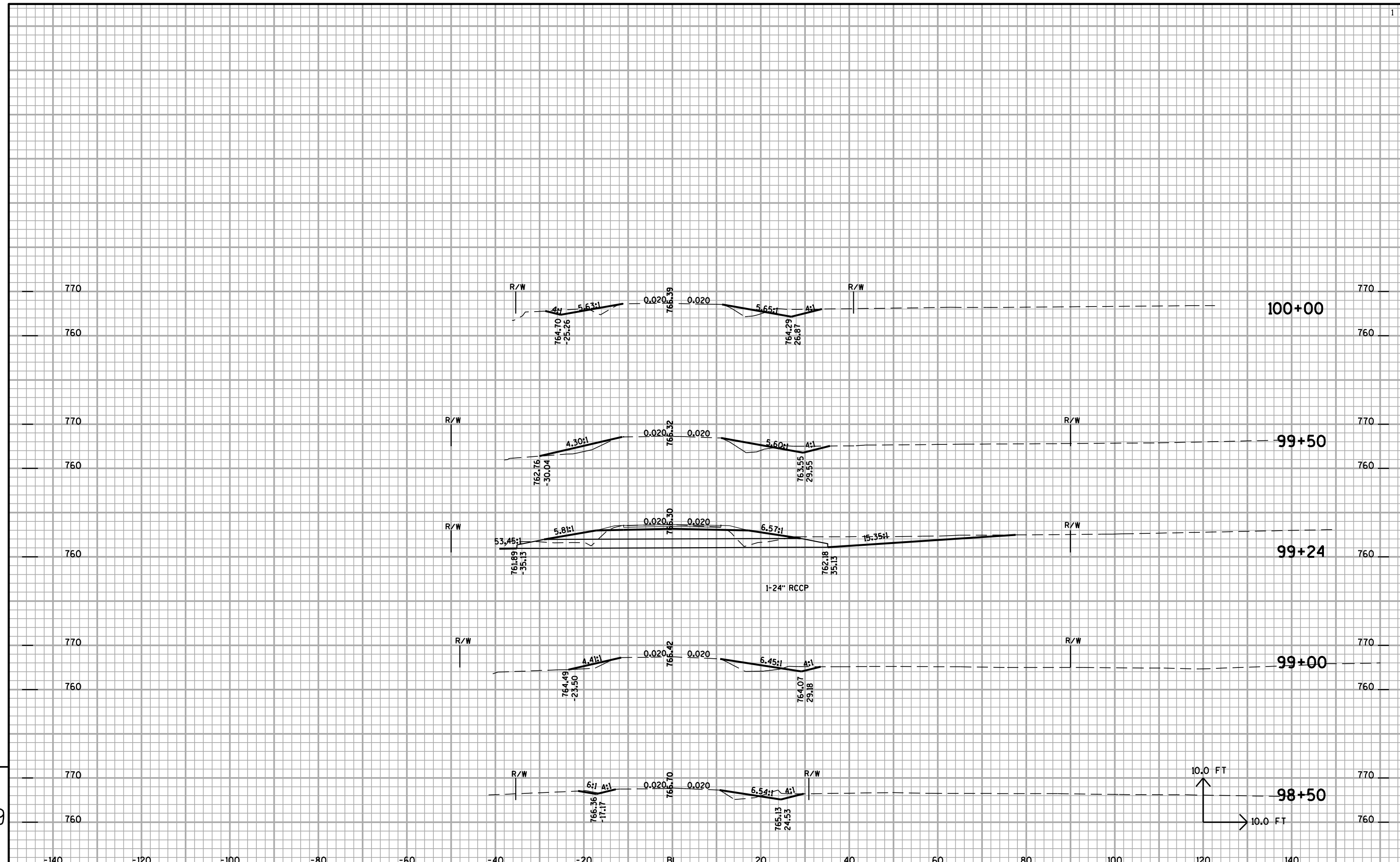
STATION	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		Mass Ordinate
		Cut	Fill	Cut	Fill	Cut 1.00 Note 1	Expanded Fill 1.30	
597+00.00		8	0					
597+50.00	50	28	10	34	9	34	12	22.19
598+00.00	50	11	37	36	44	70	69	1.52
598+27.67	28	23	0	17	19	87	93	-6.25
598+50.00	22	11	34	14	14	101	112	-10.63
599+00.00	50	16	8	25	39	126	163	-37.17
				126	125			

STATION	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		Mass Ordinate
		Cut	Fill	Cut	Fill	Cut 1.00 Note 1	Expanded Fill 1.30	
				Note 1	Note 3	Note 1		Note 8
605+00.00		13	4					
605+50.00	50	20	6	31	10	31	13	18.37
605+92.42	42	24	0	35	5	66	20	46.43
606+00.00	8	8	70	4	10	70	32	38.15
606+50.00	50	21	10	27	74	97	128	-30.94
				97	99			

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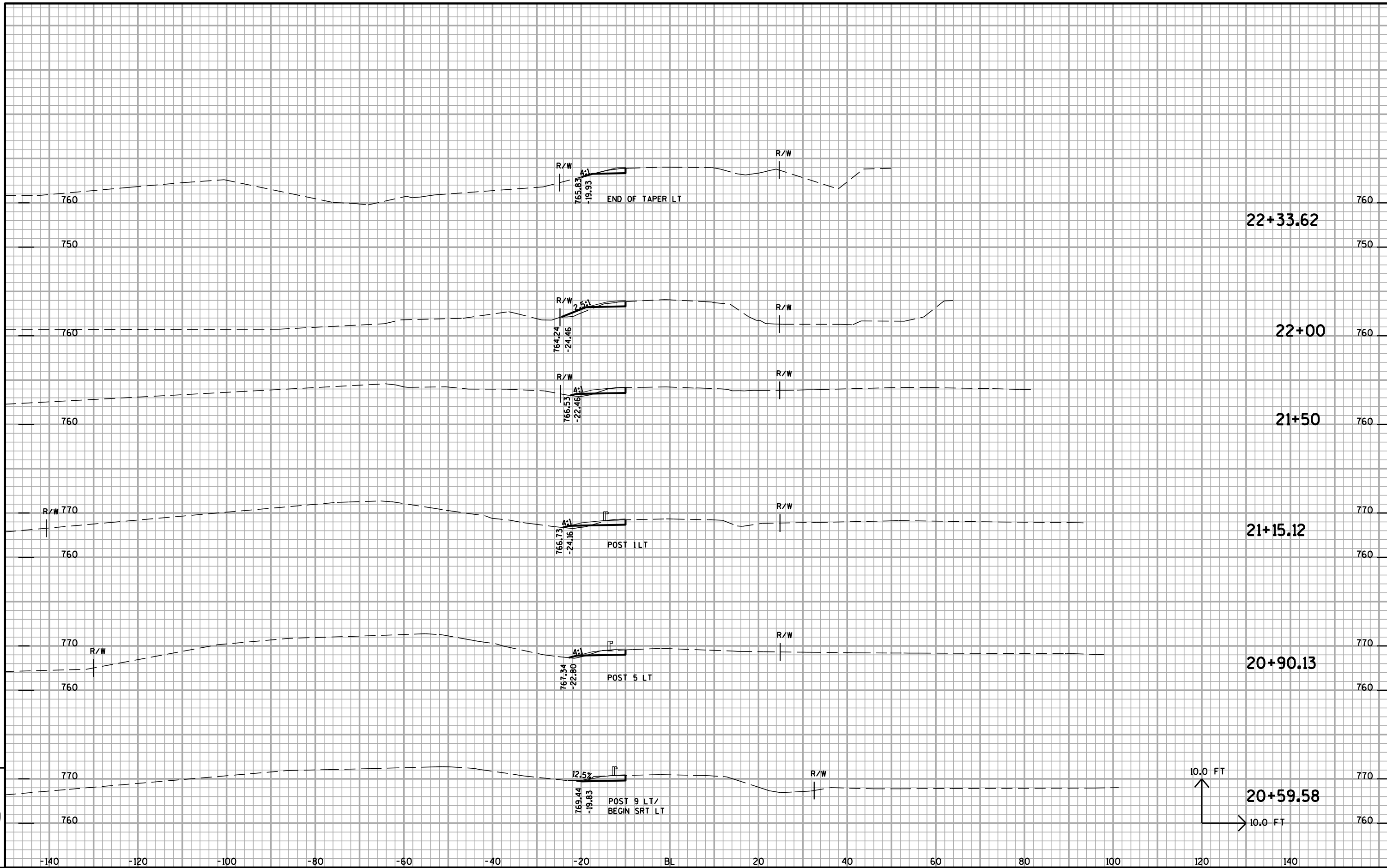


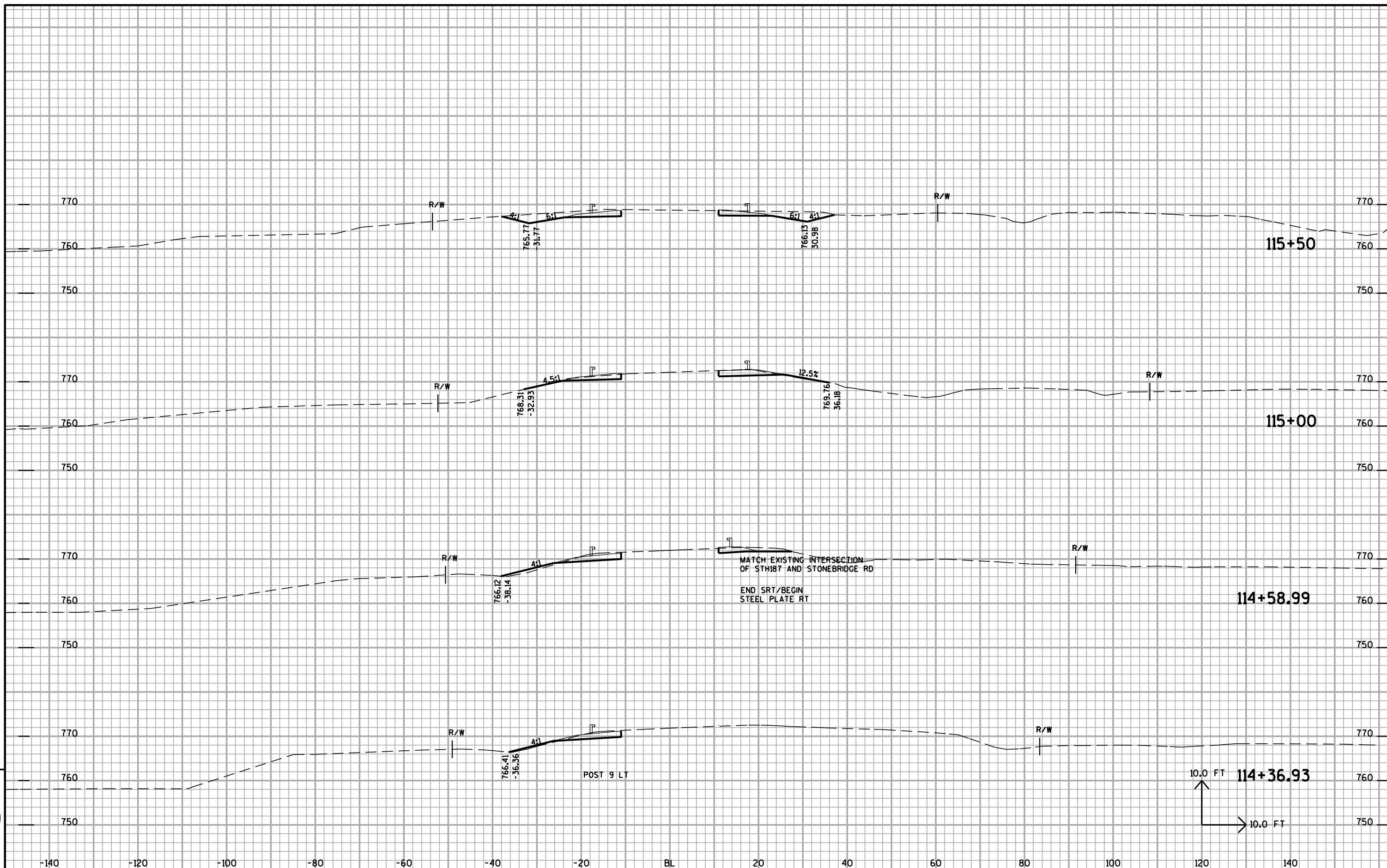
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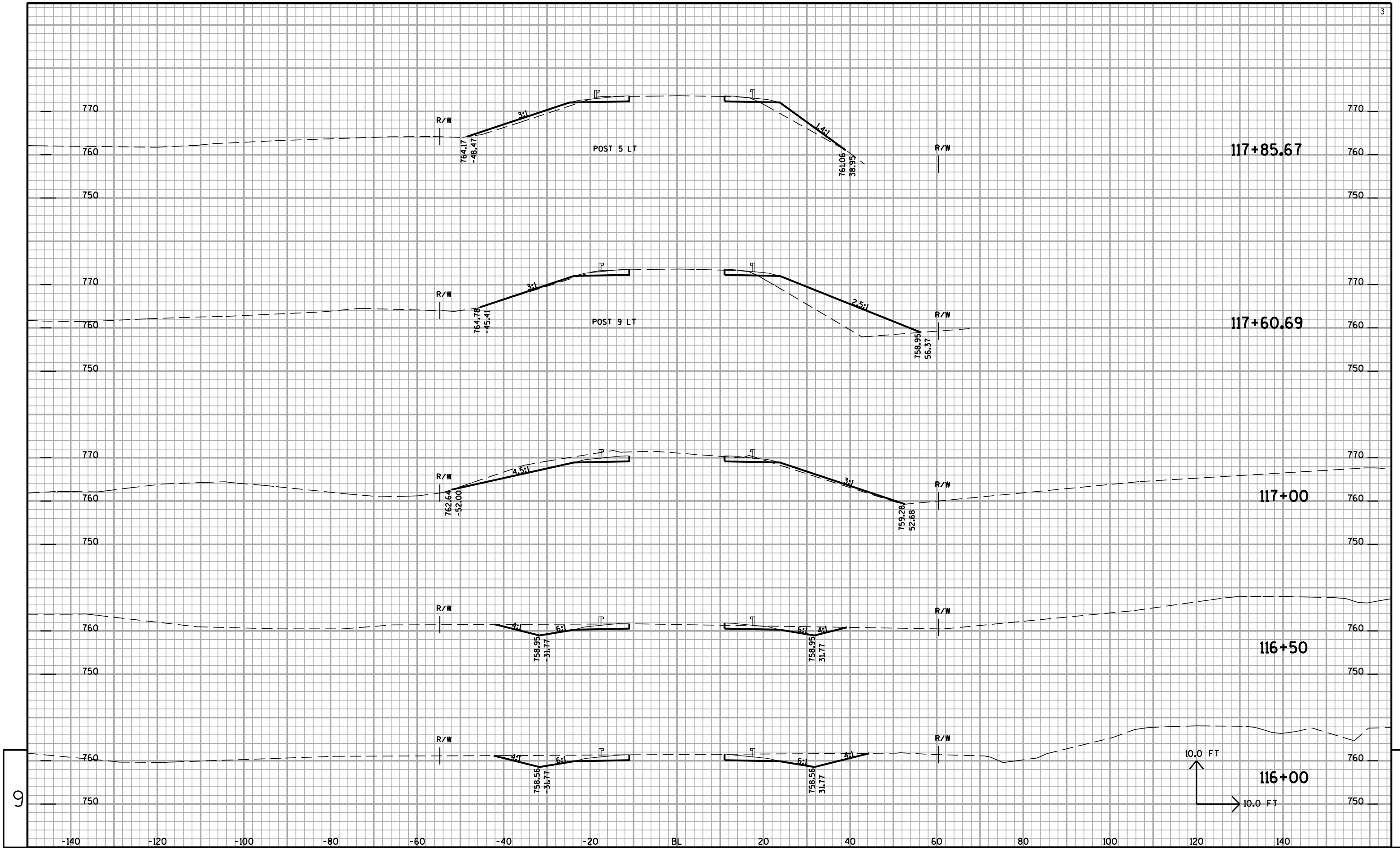


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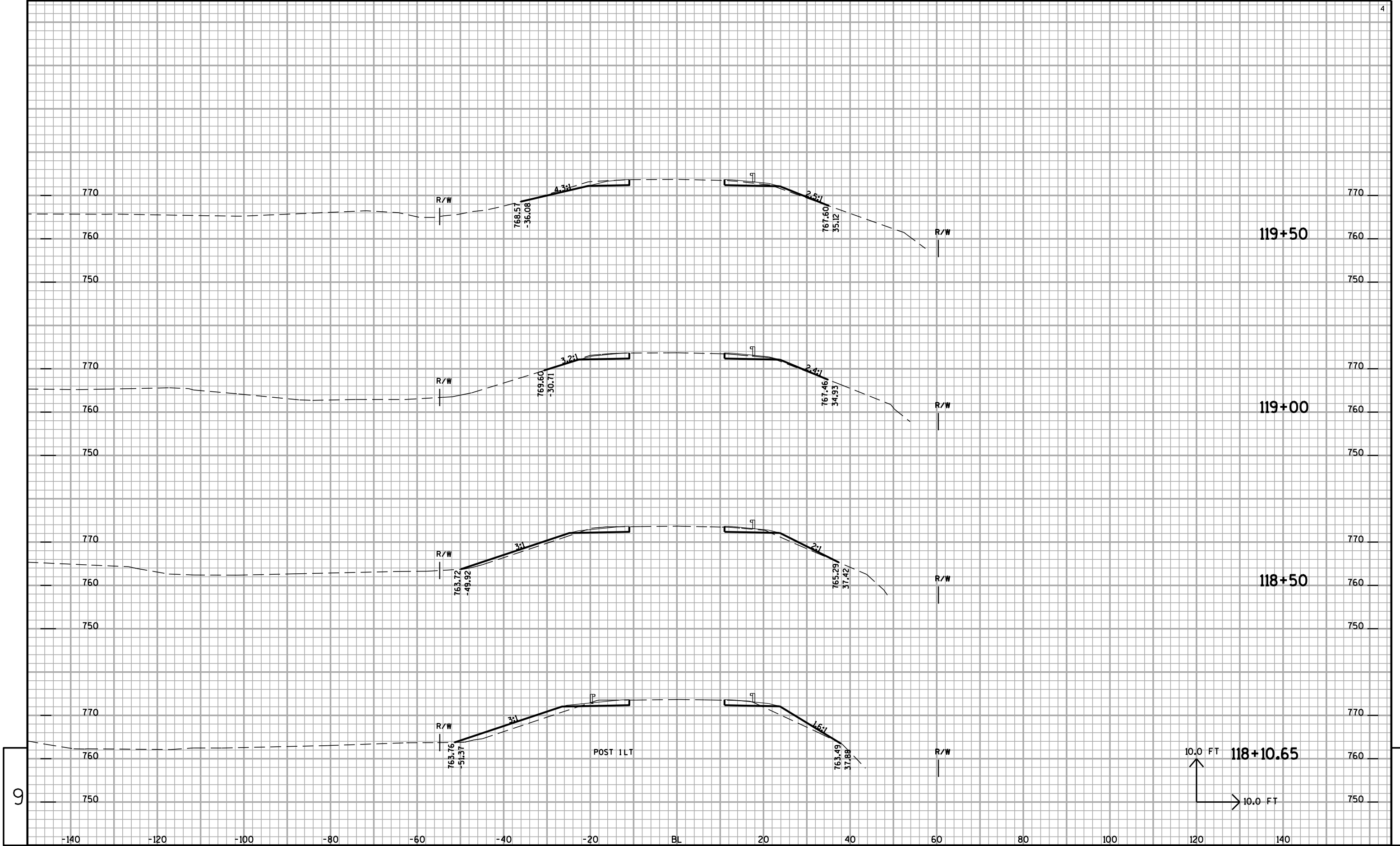


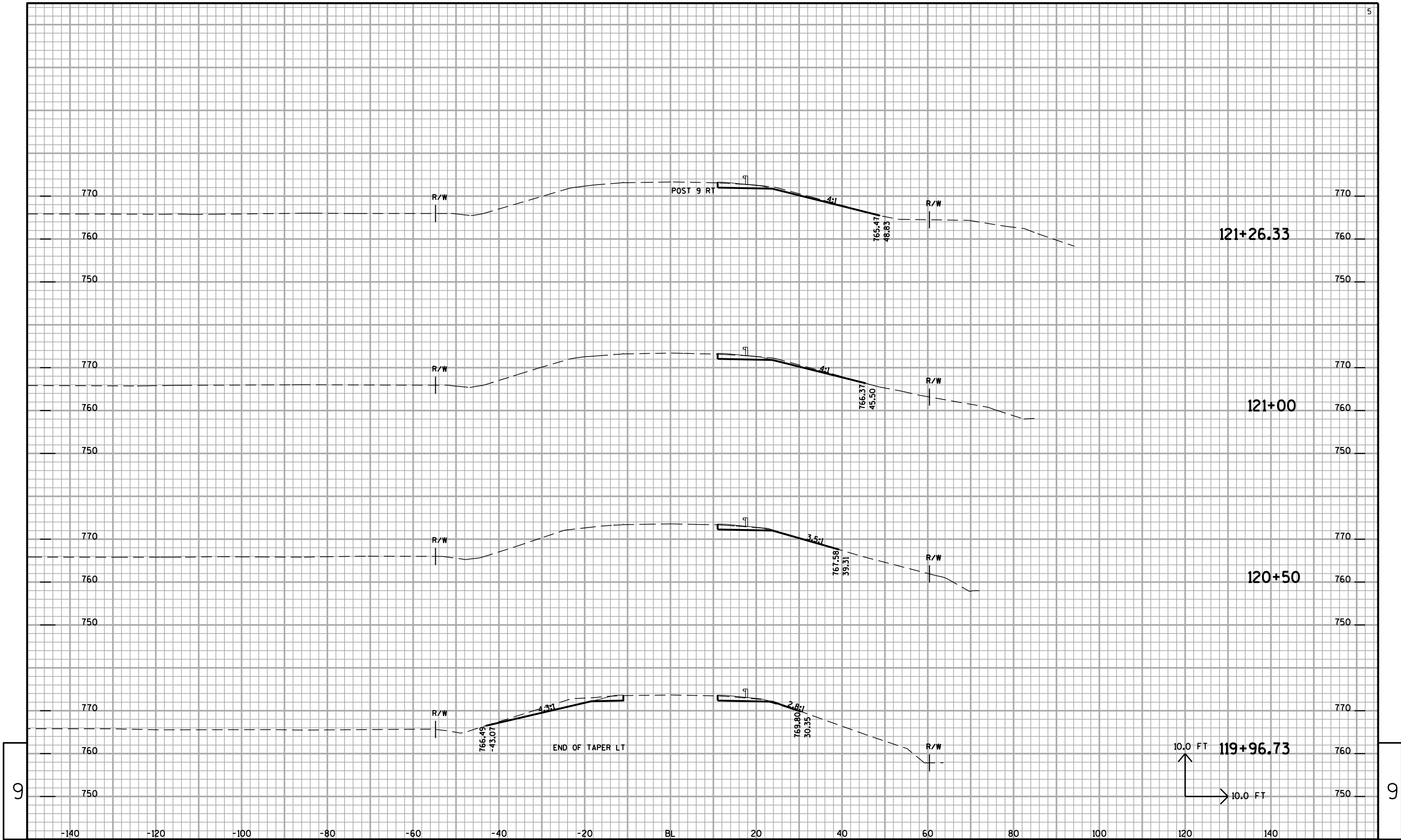




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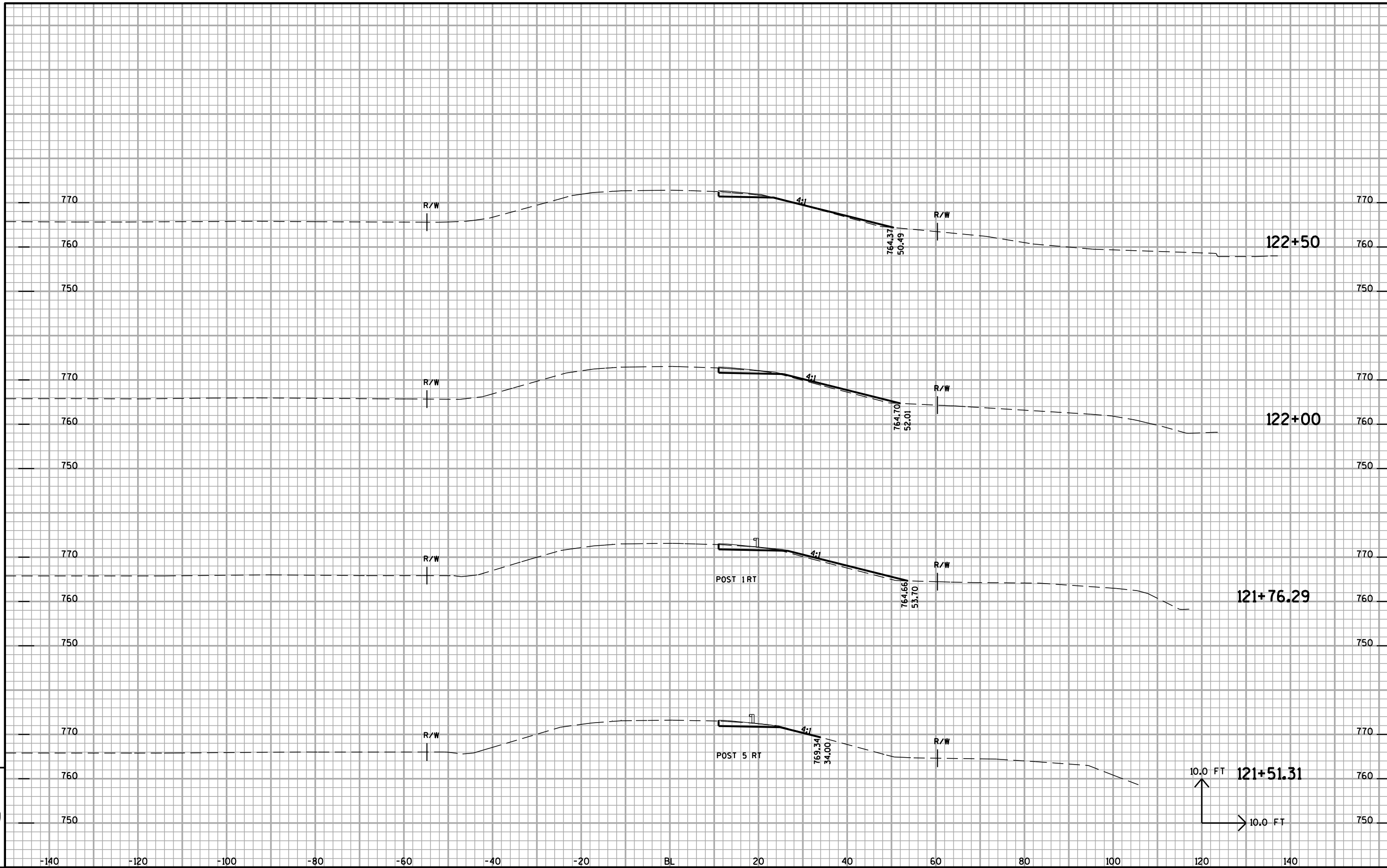
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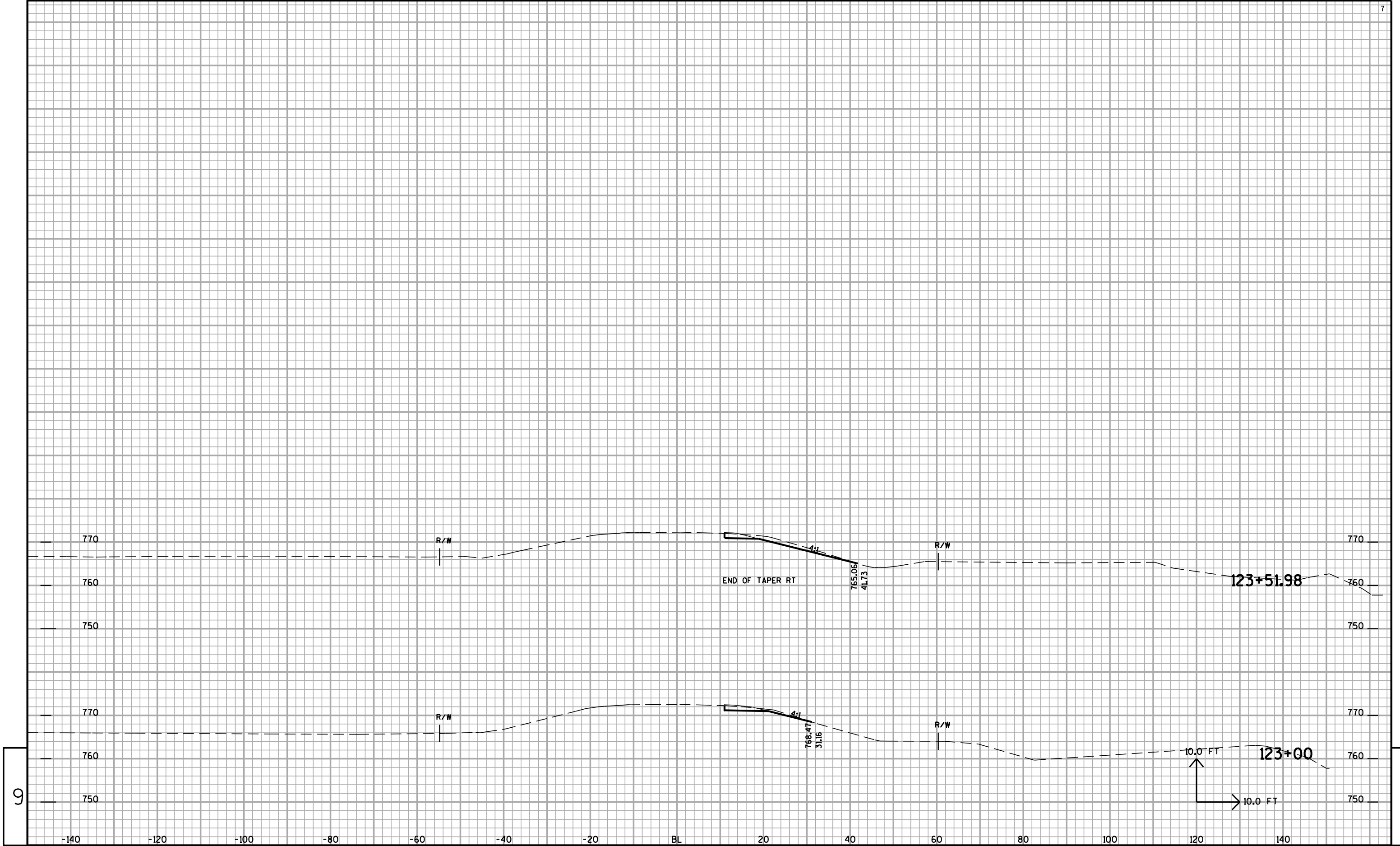
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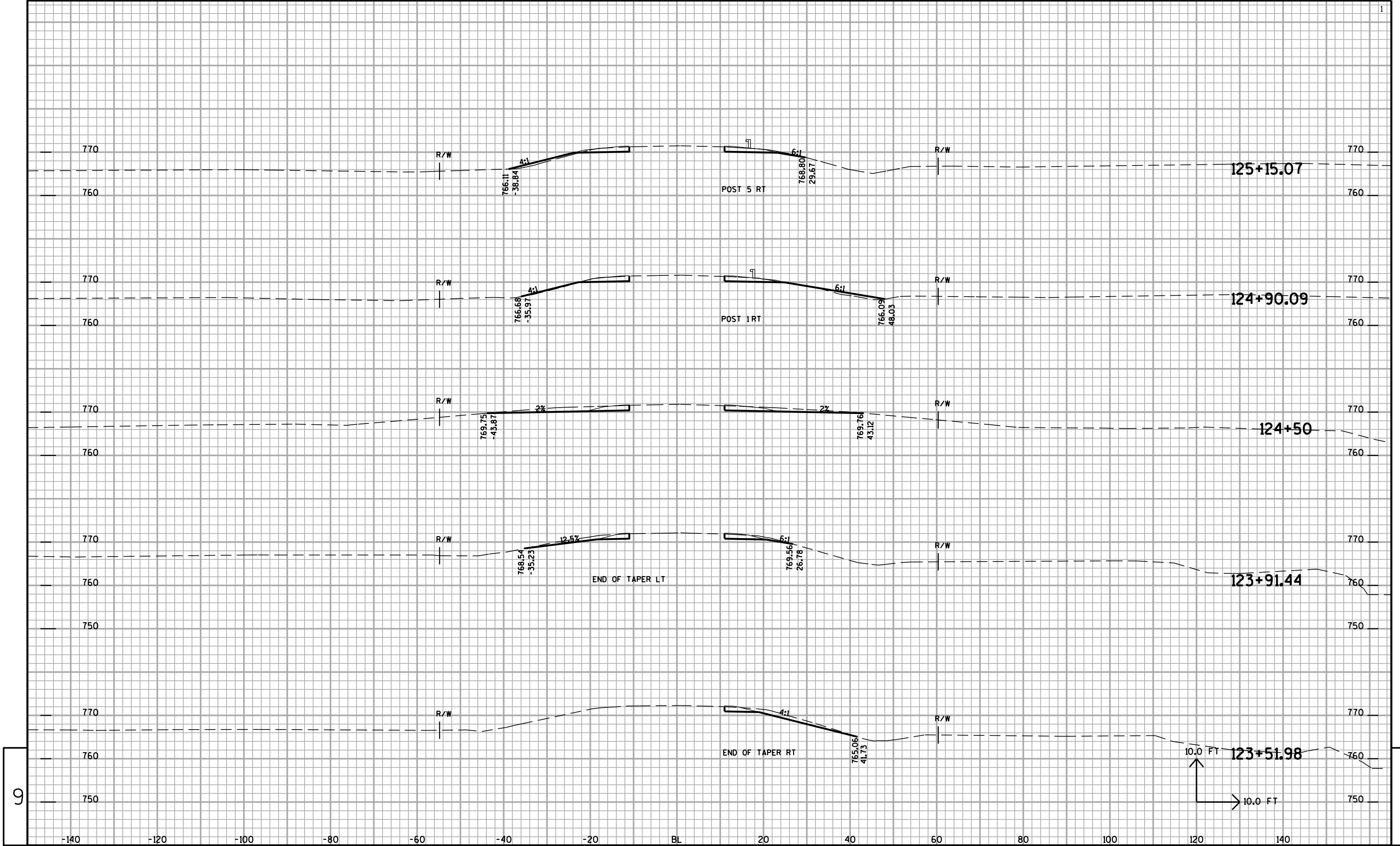
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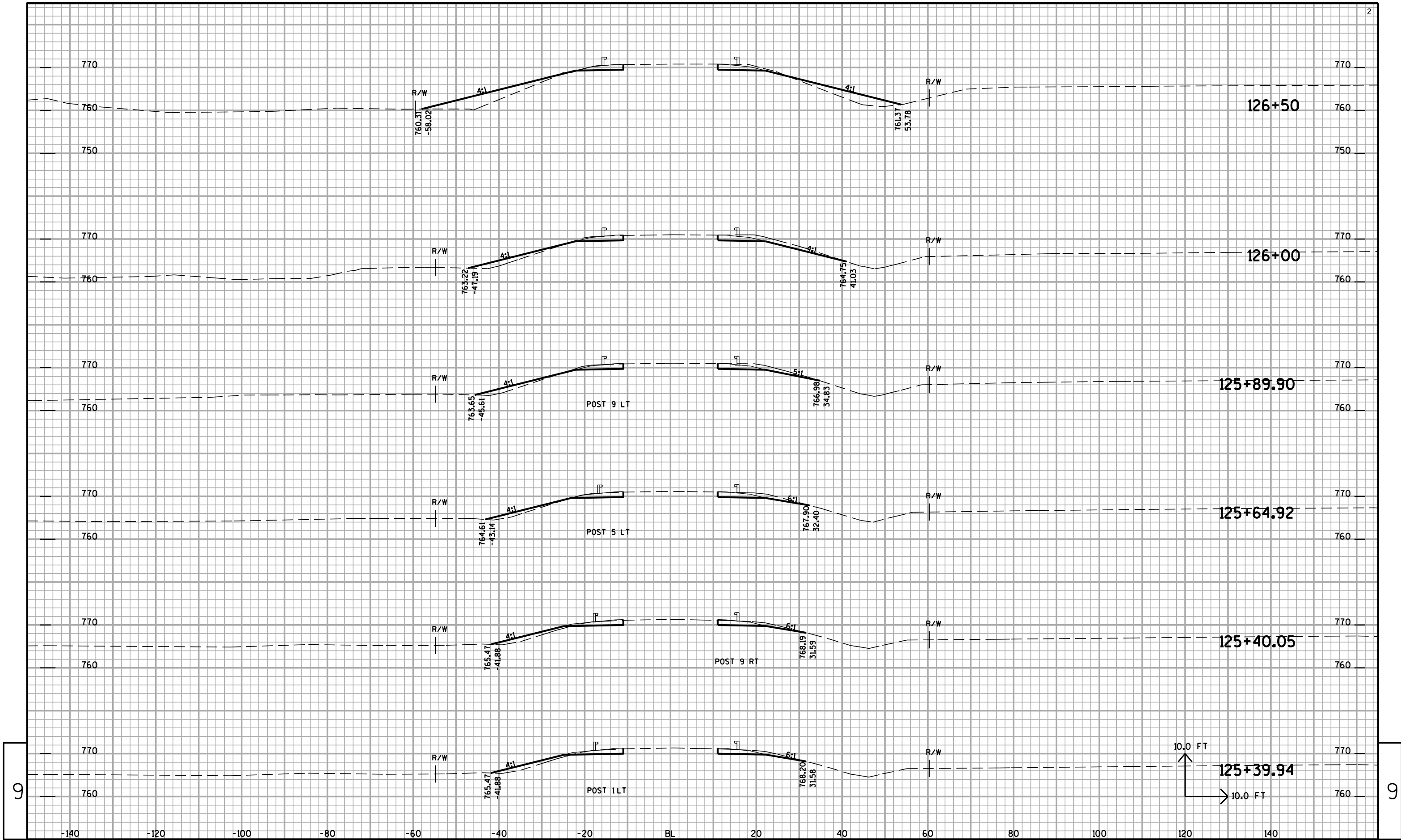
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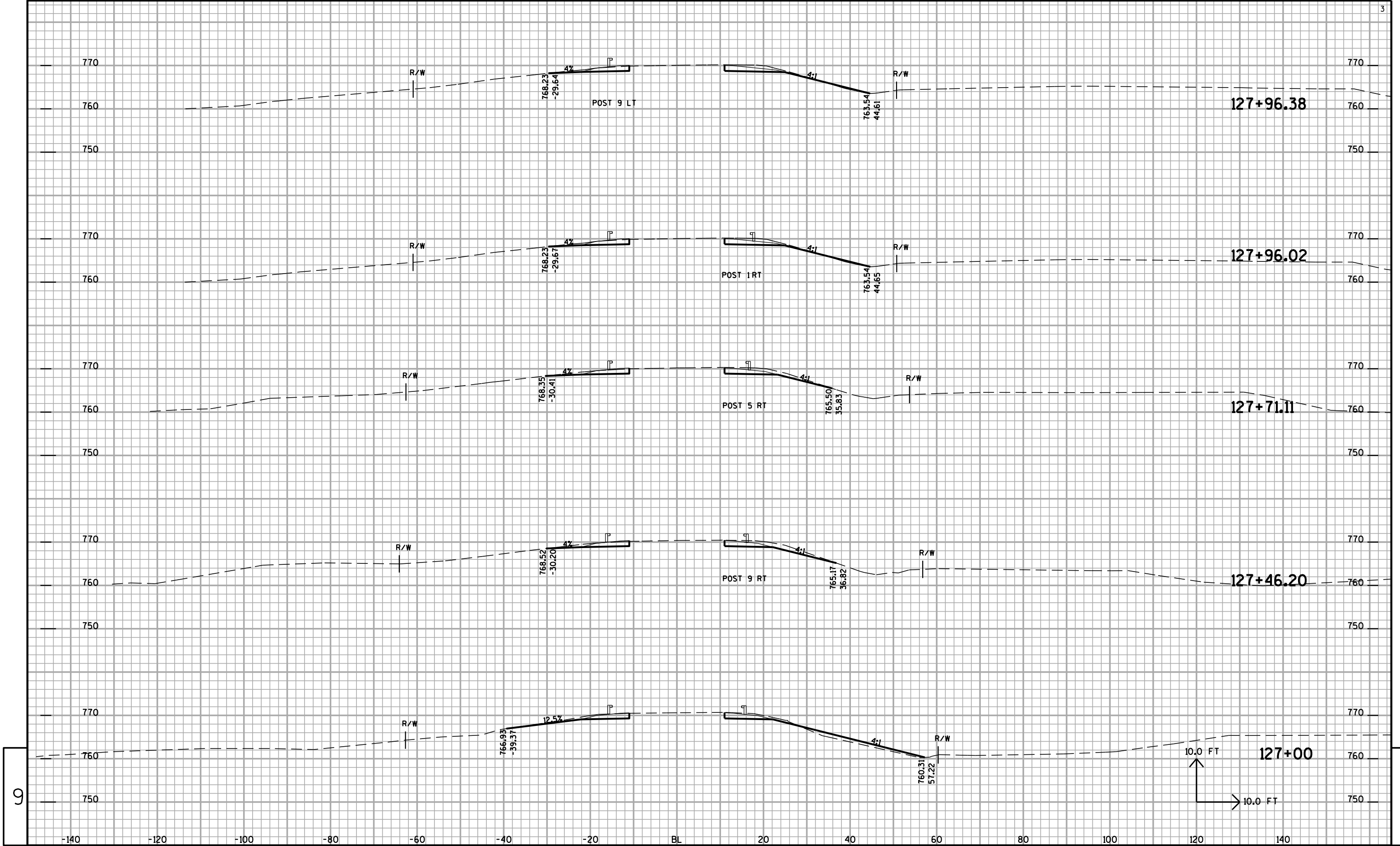


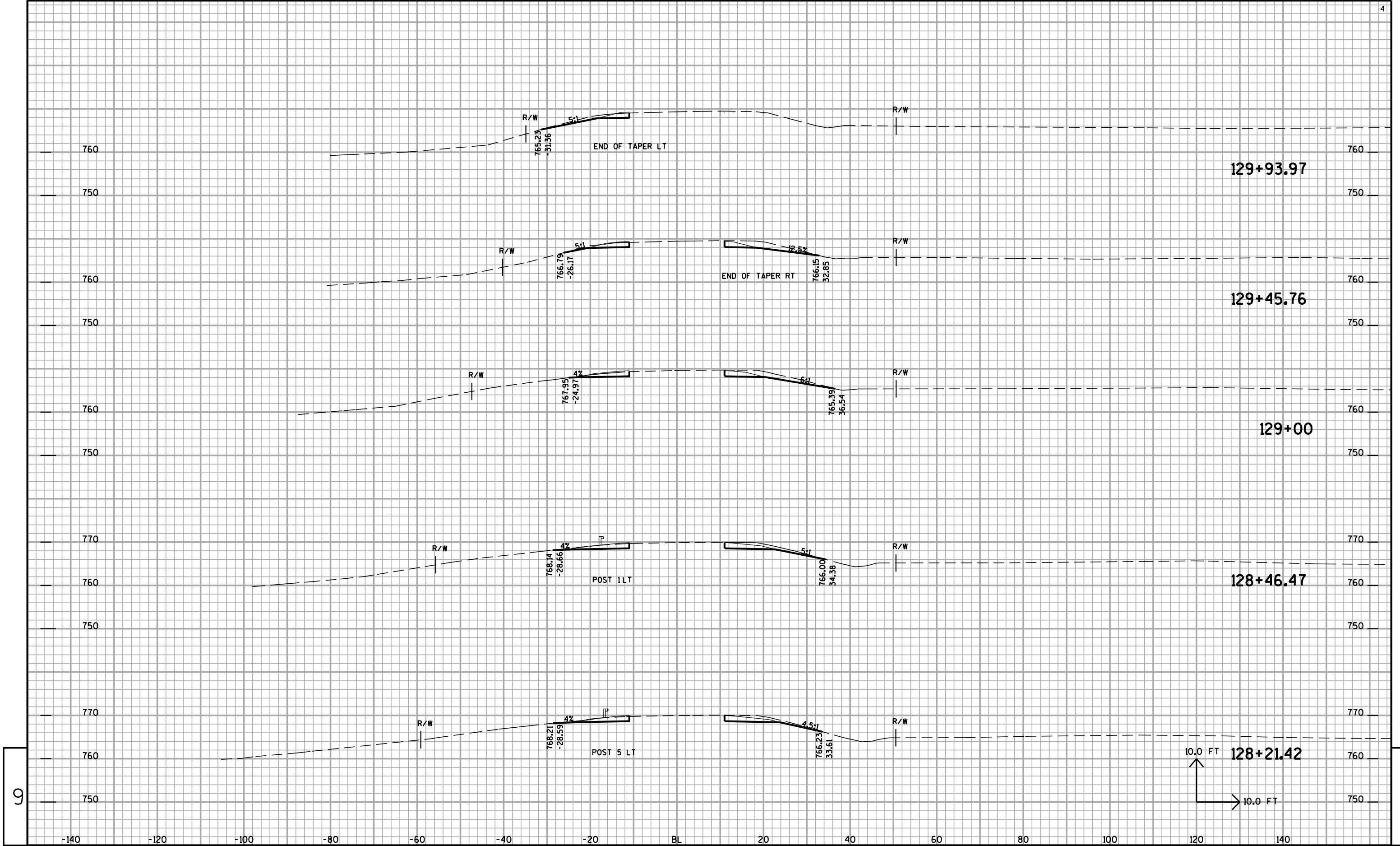
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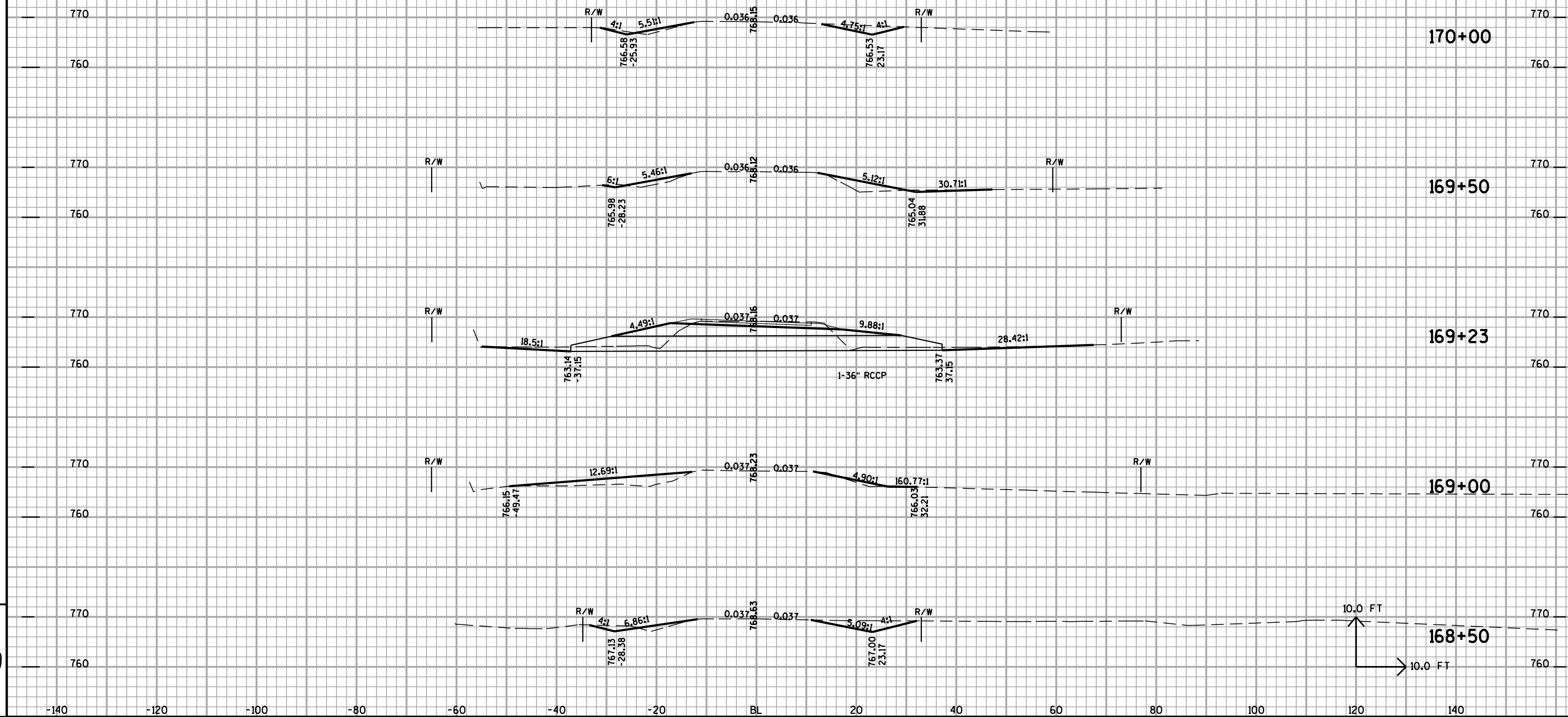
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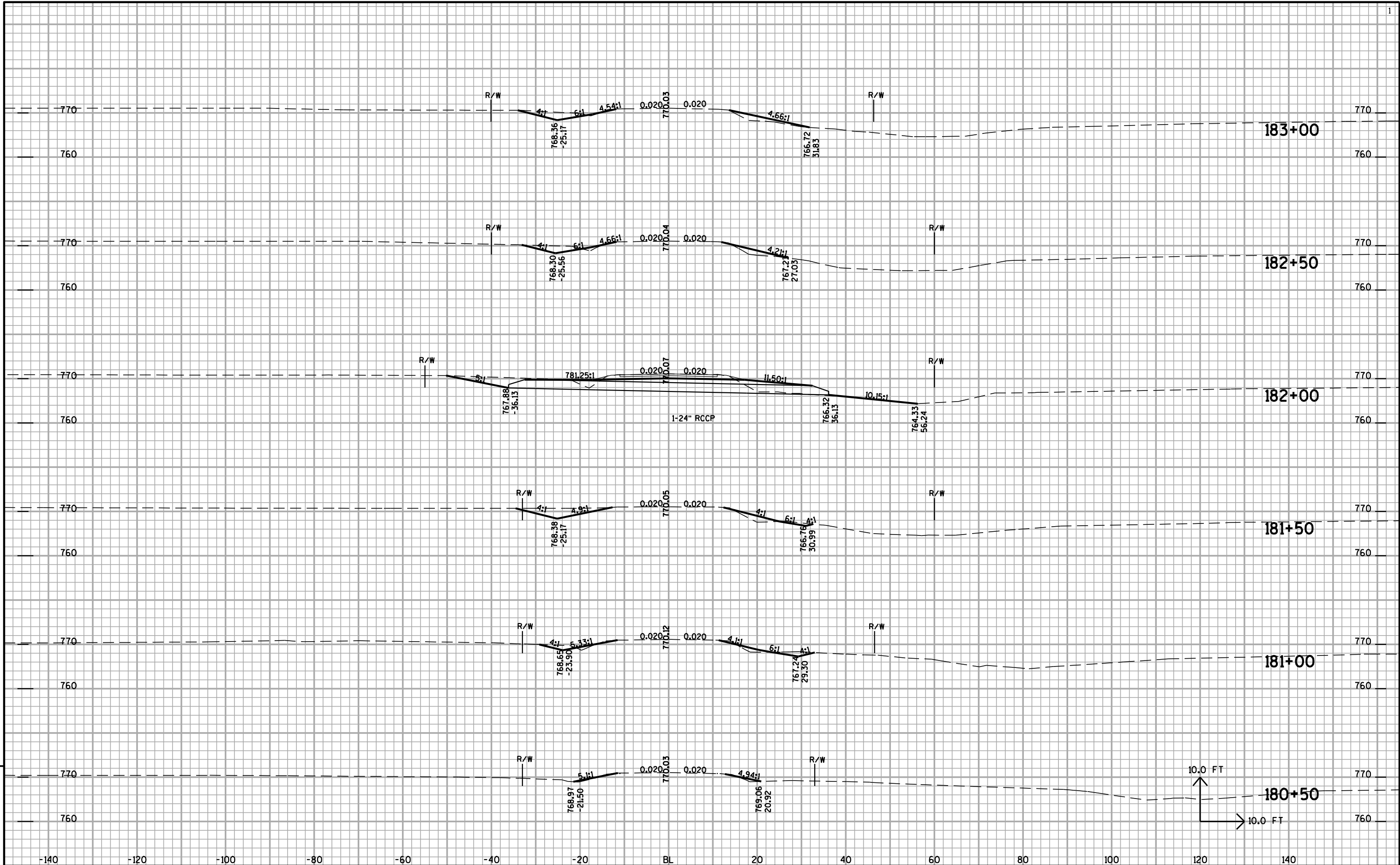




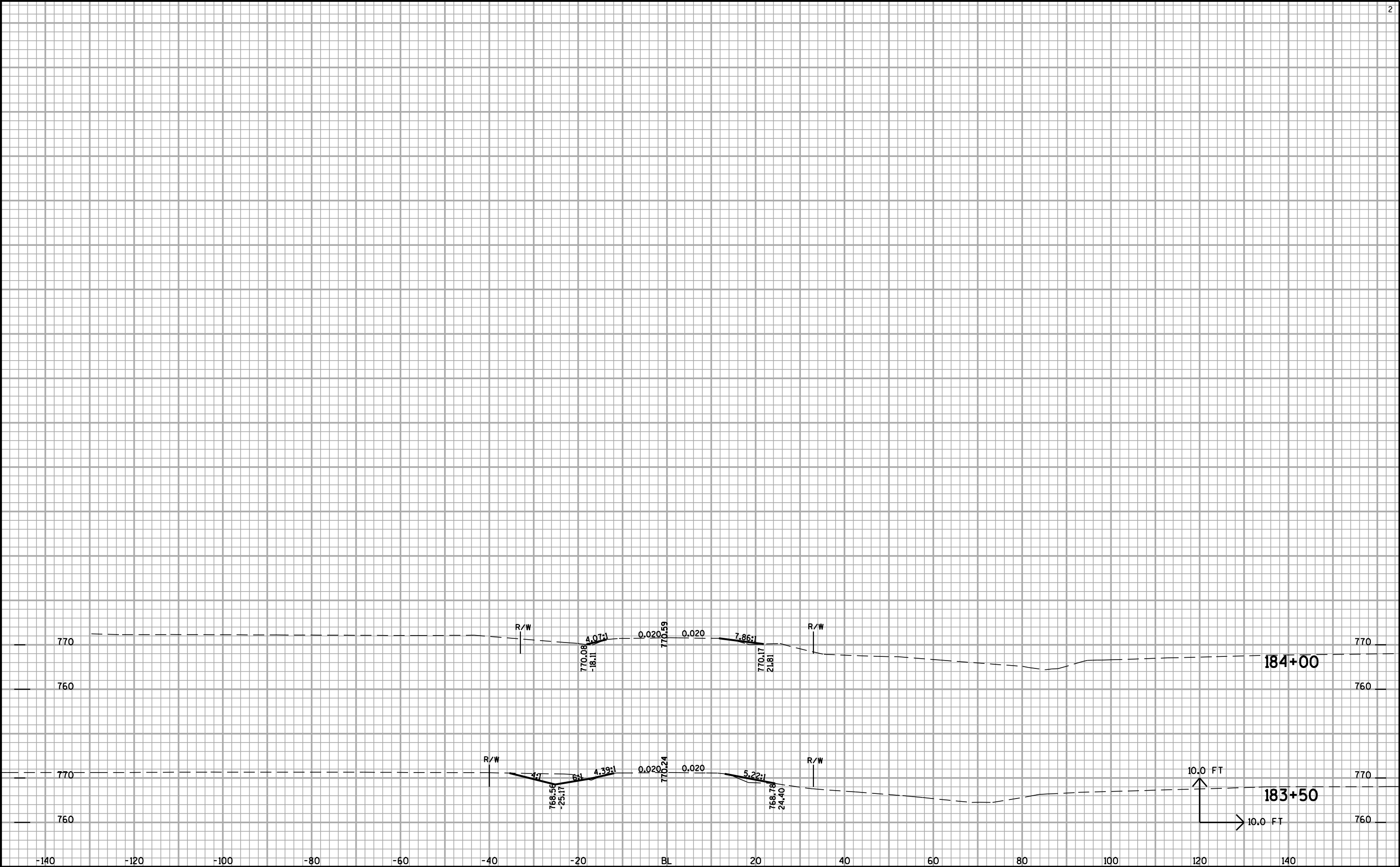




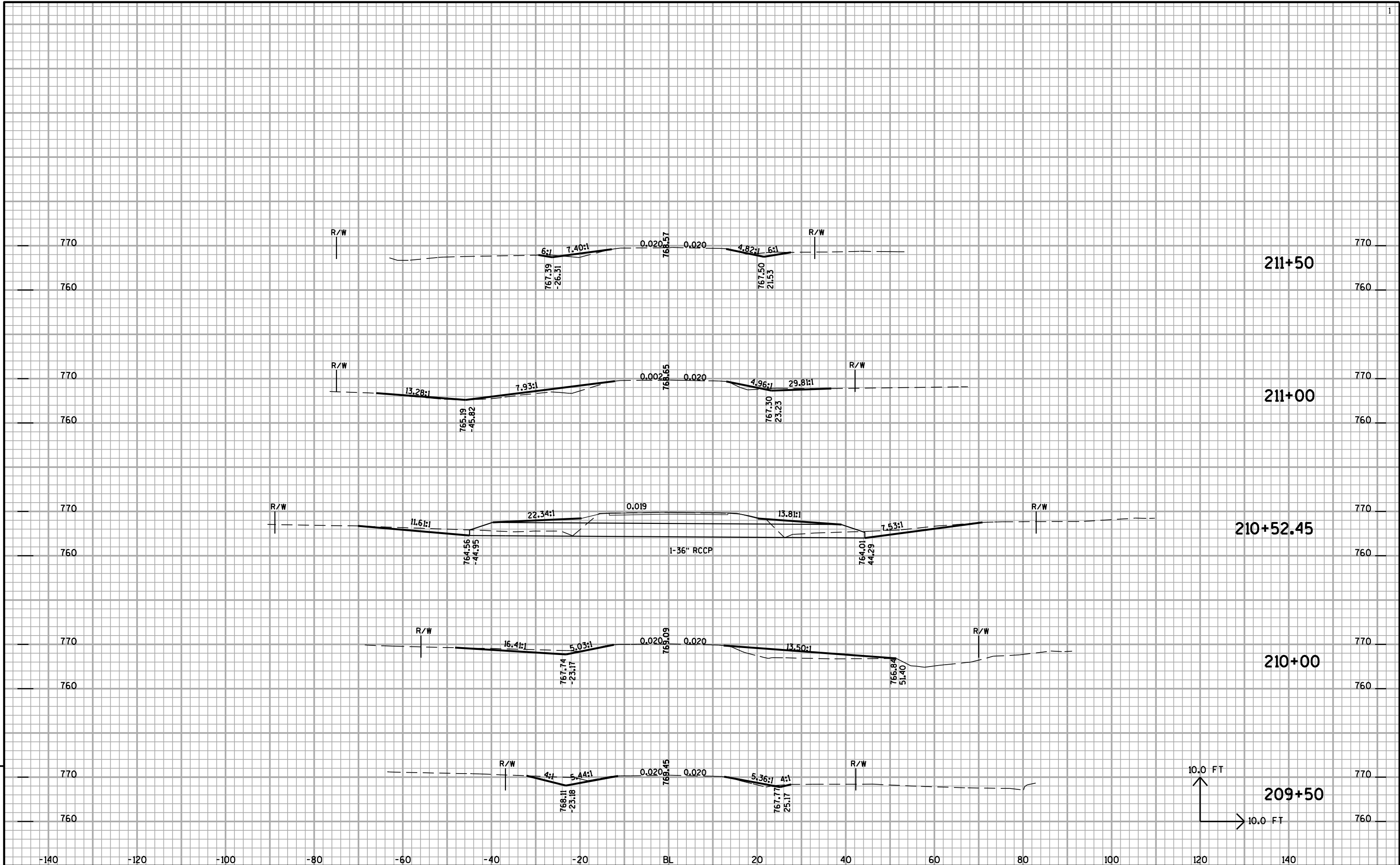


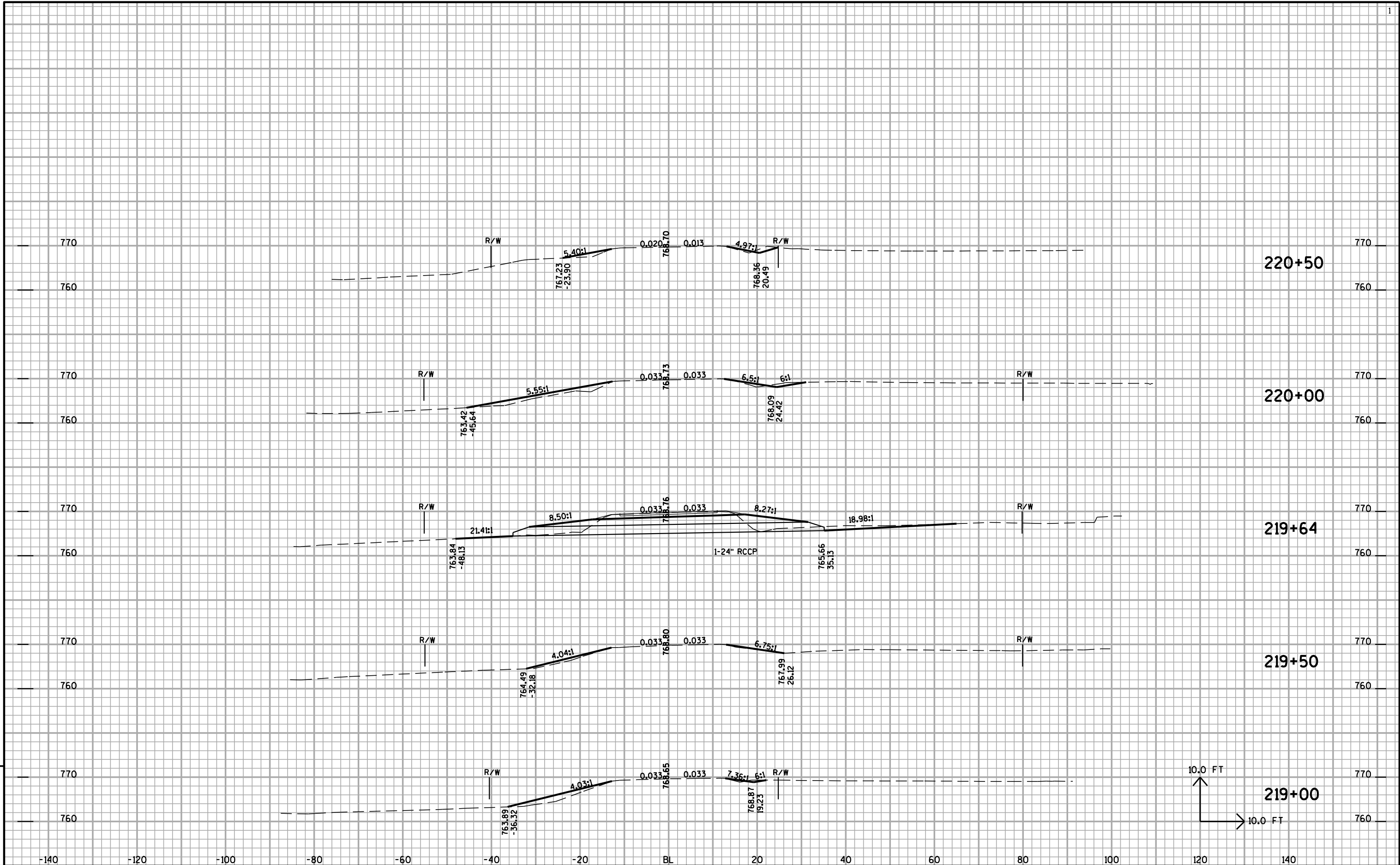


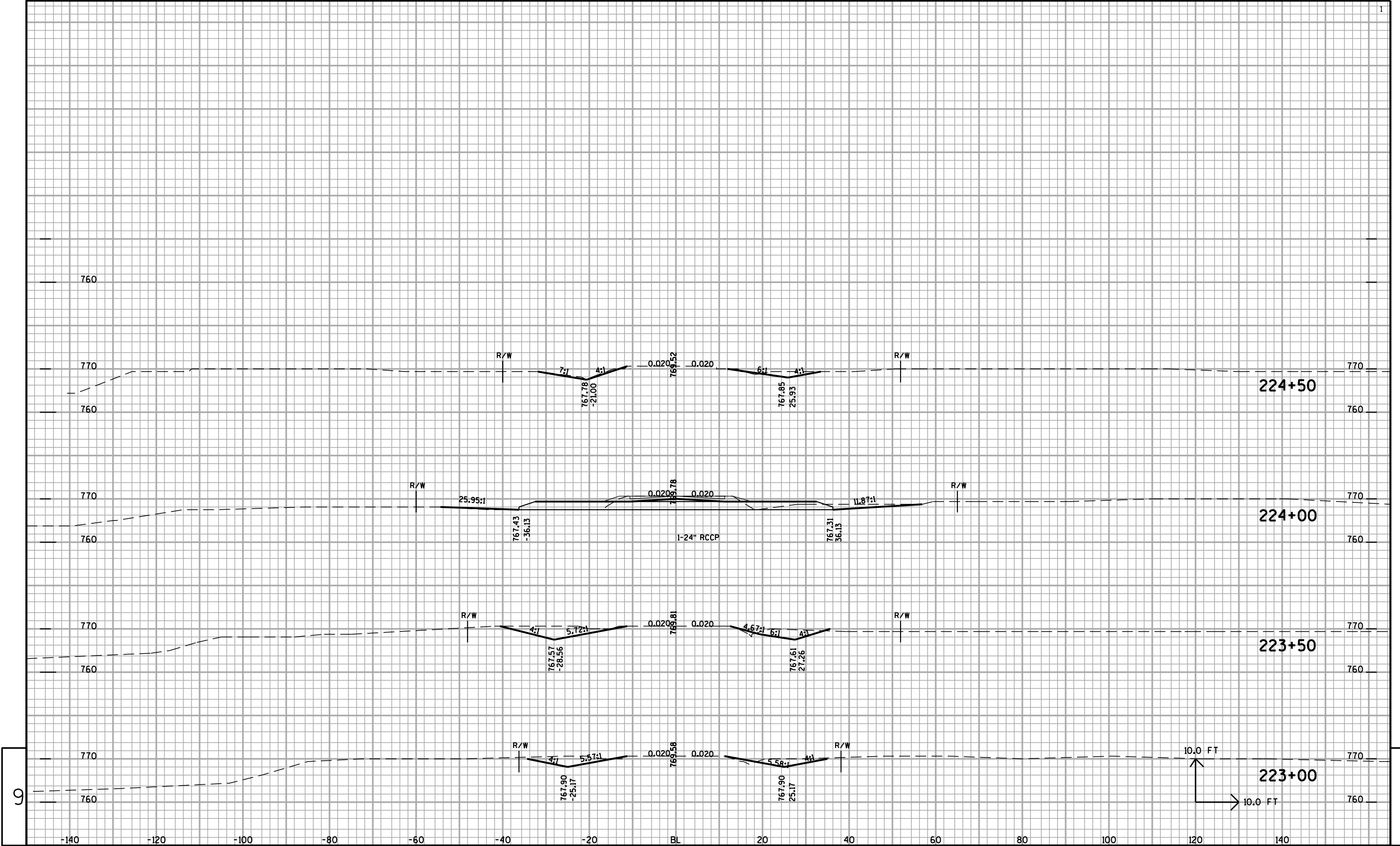
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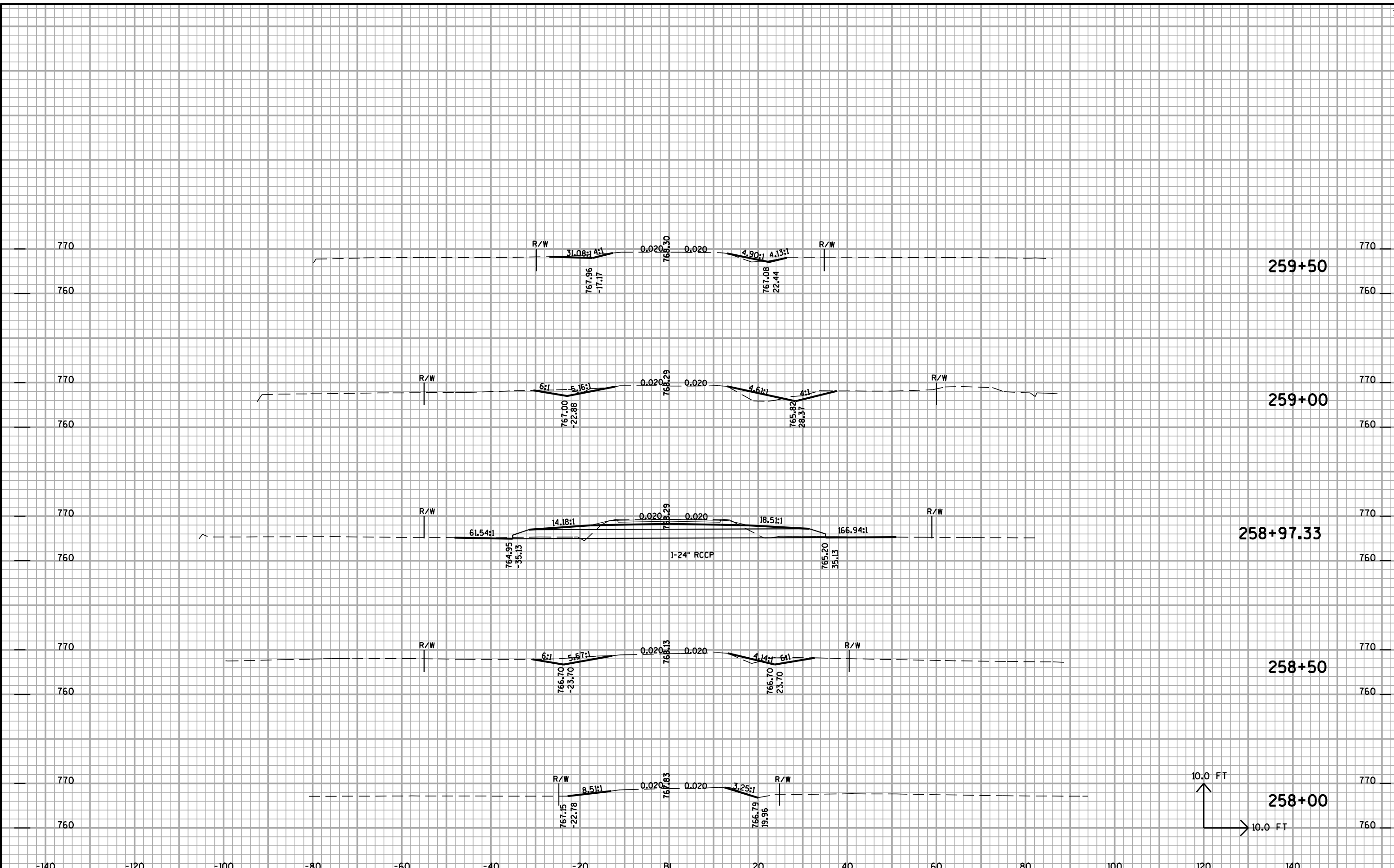
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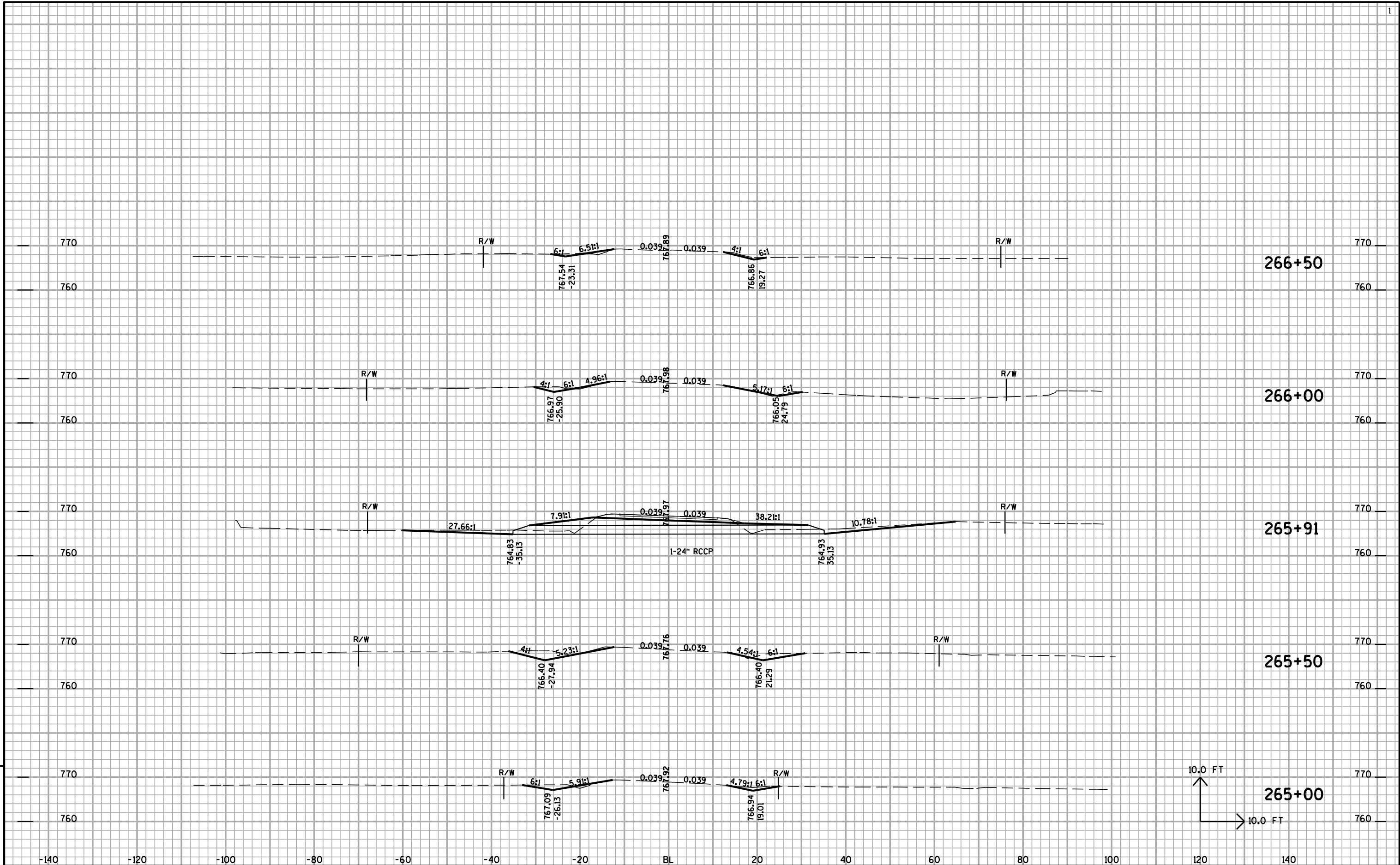


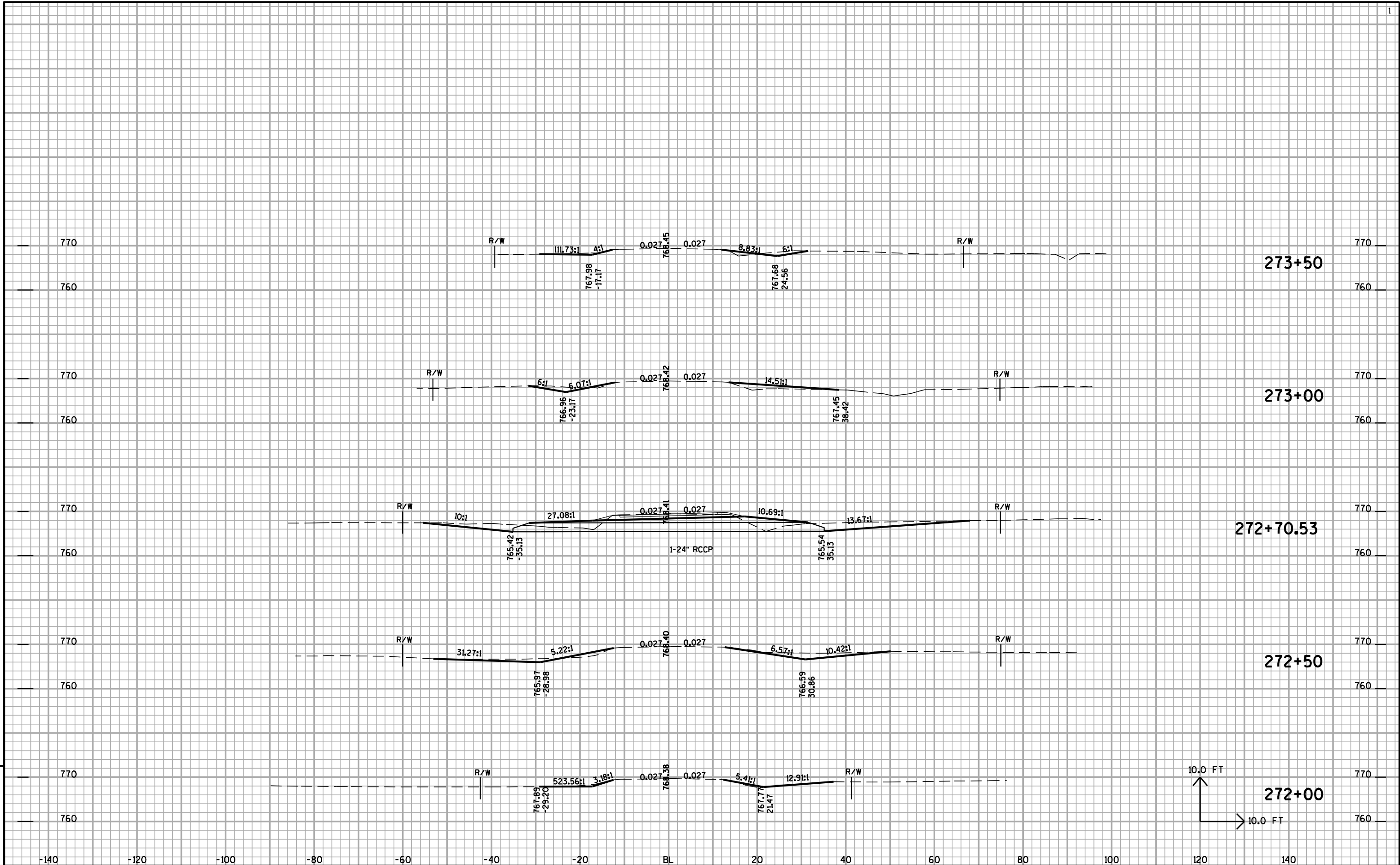


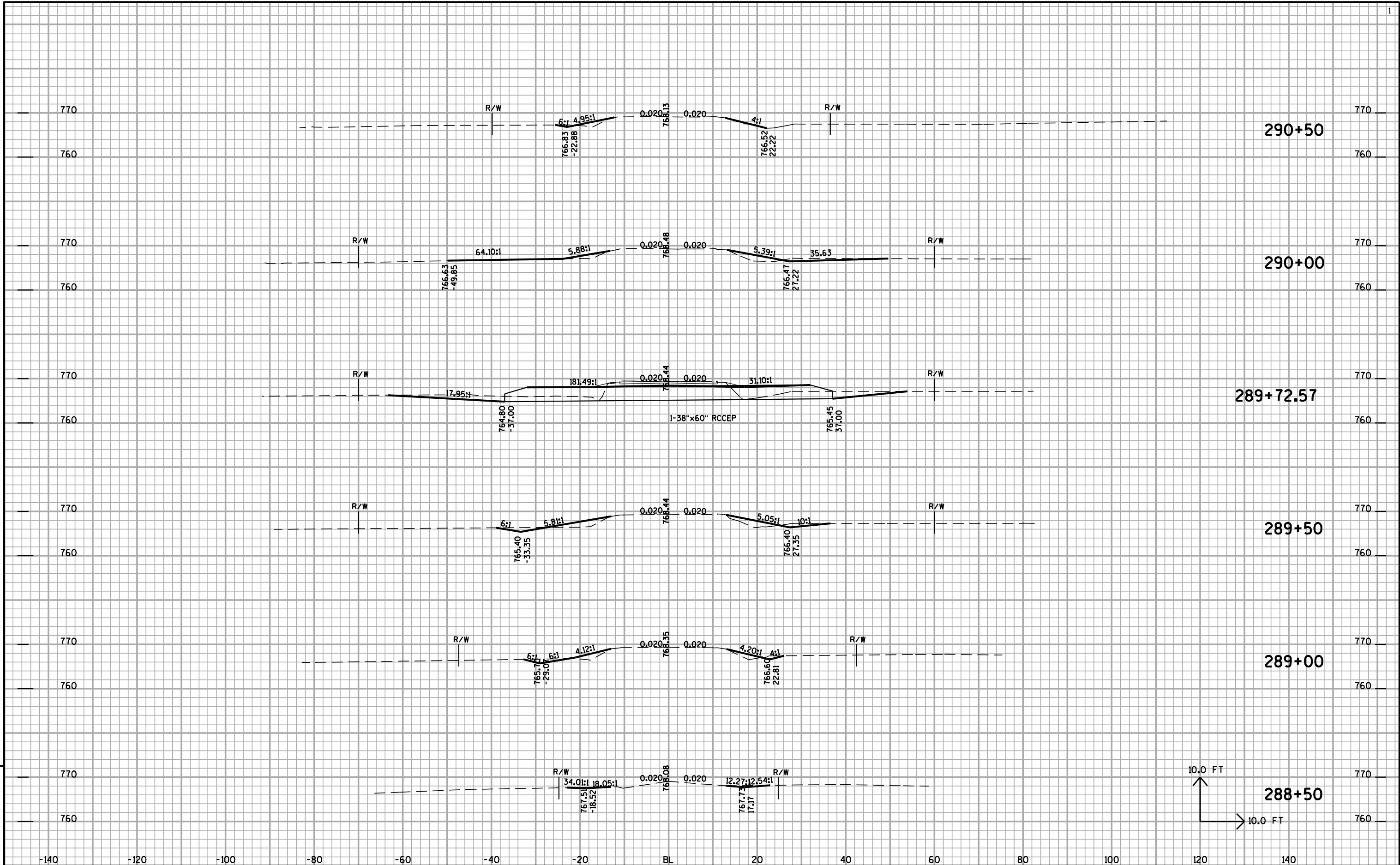
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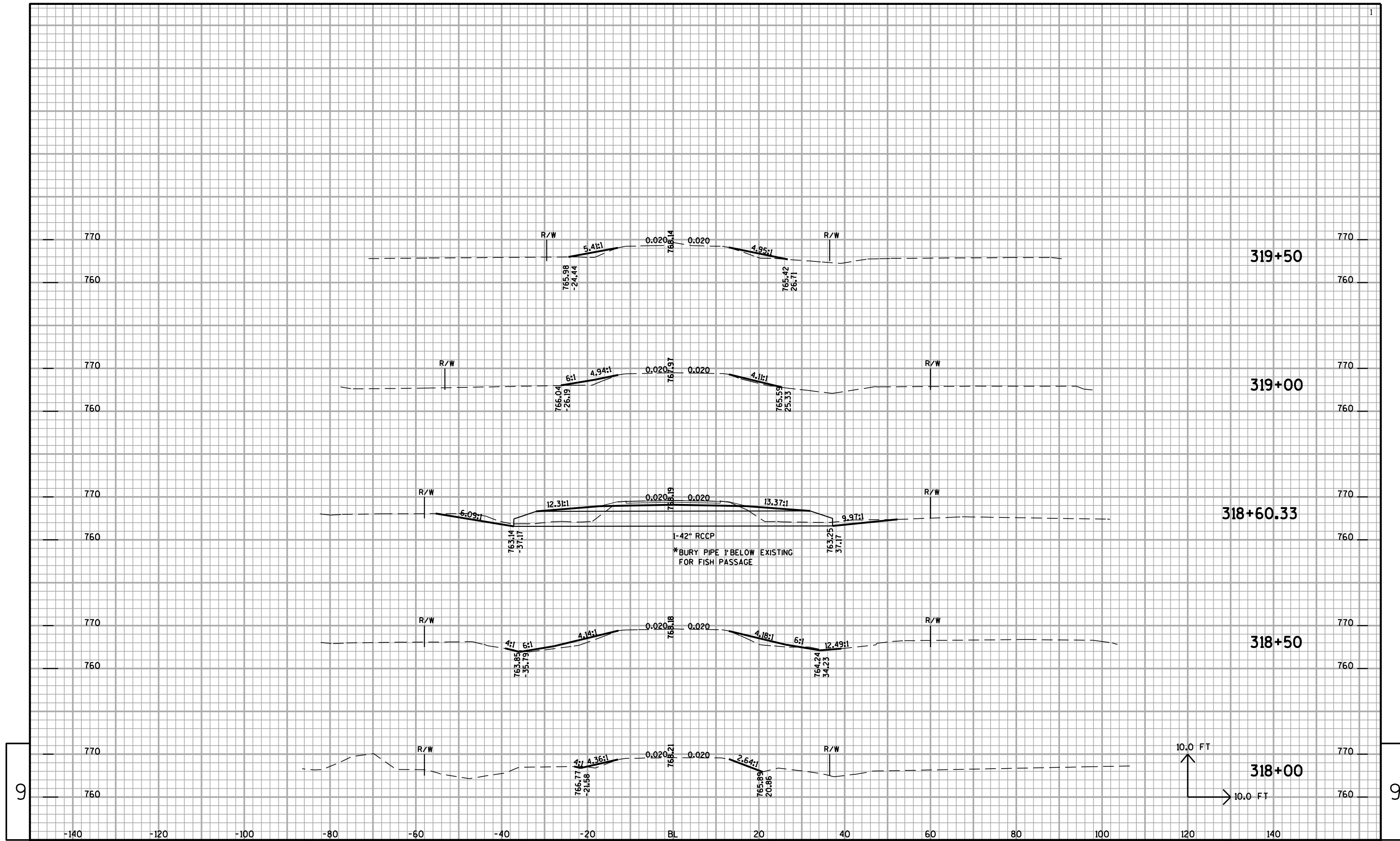


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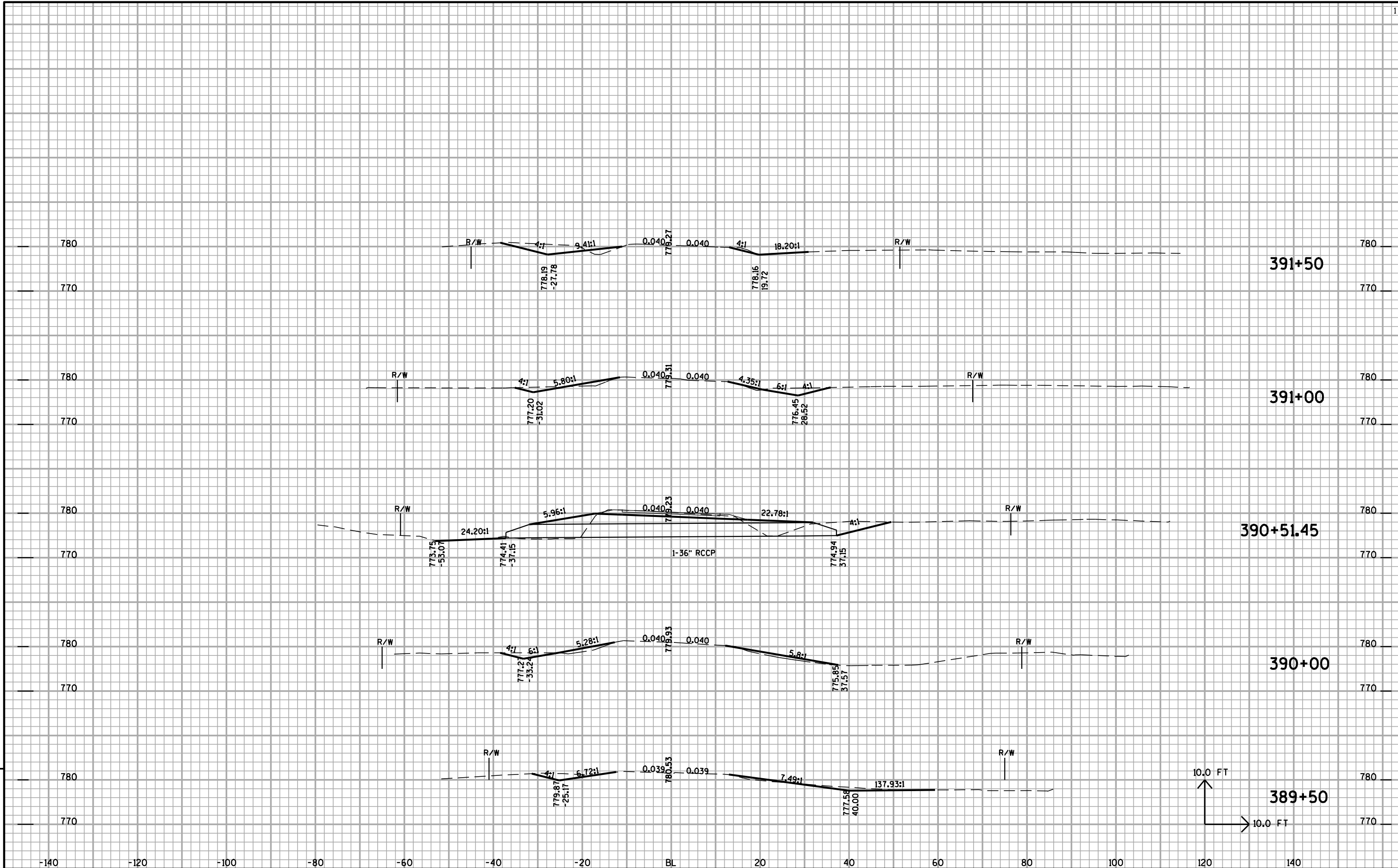


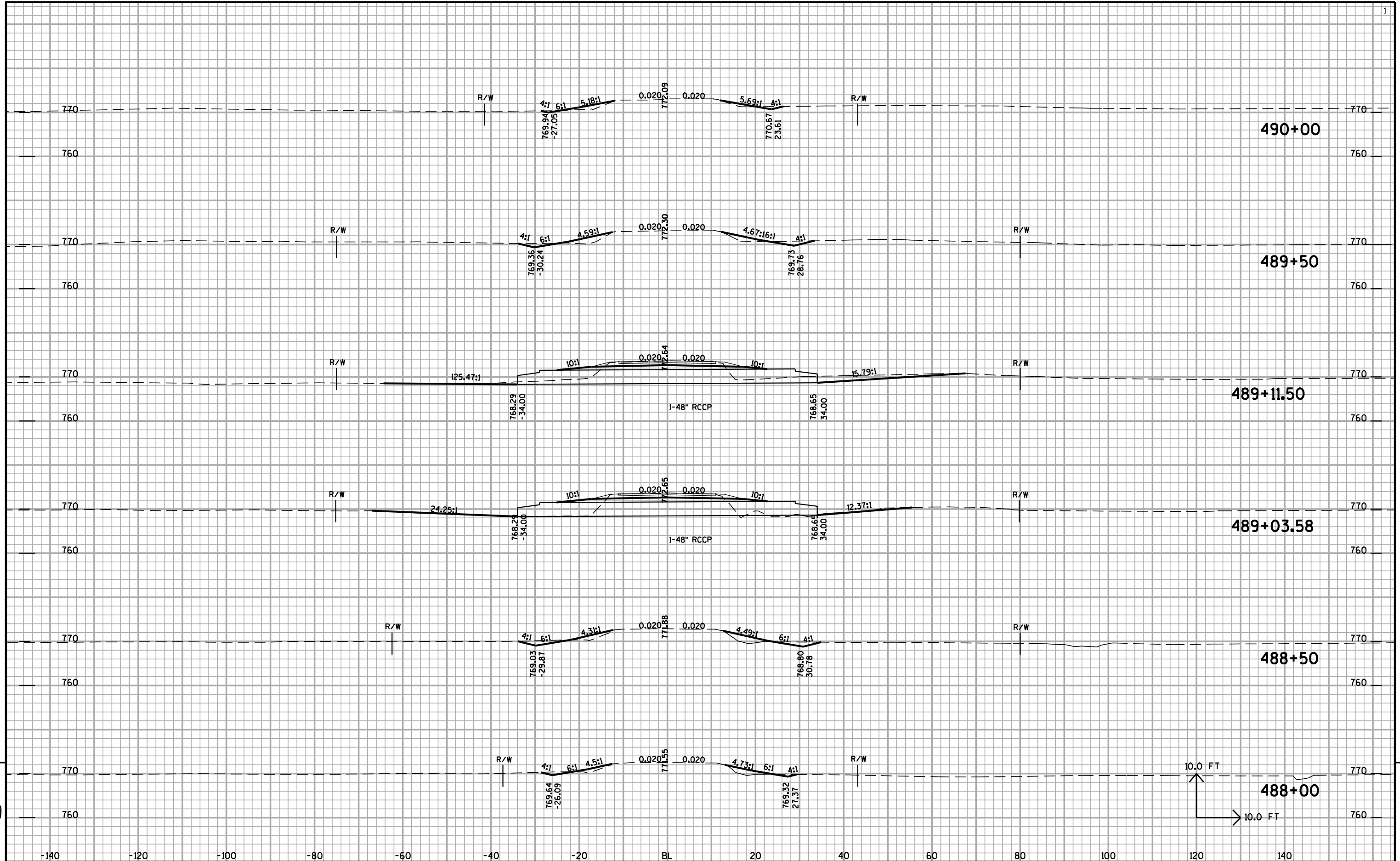


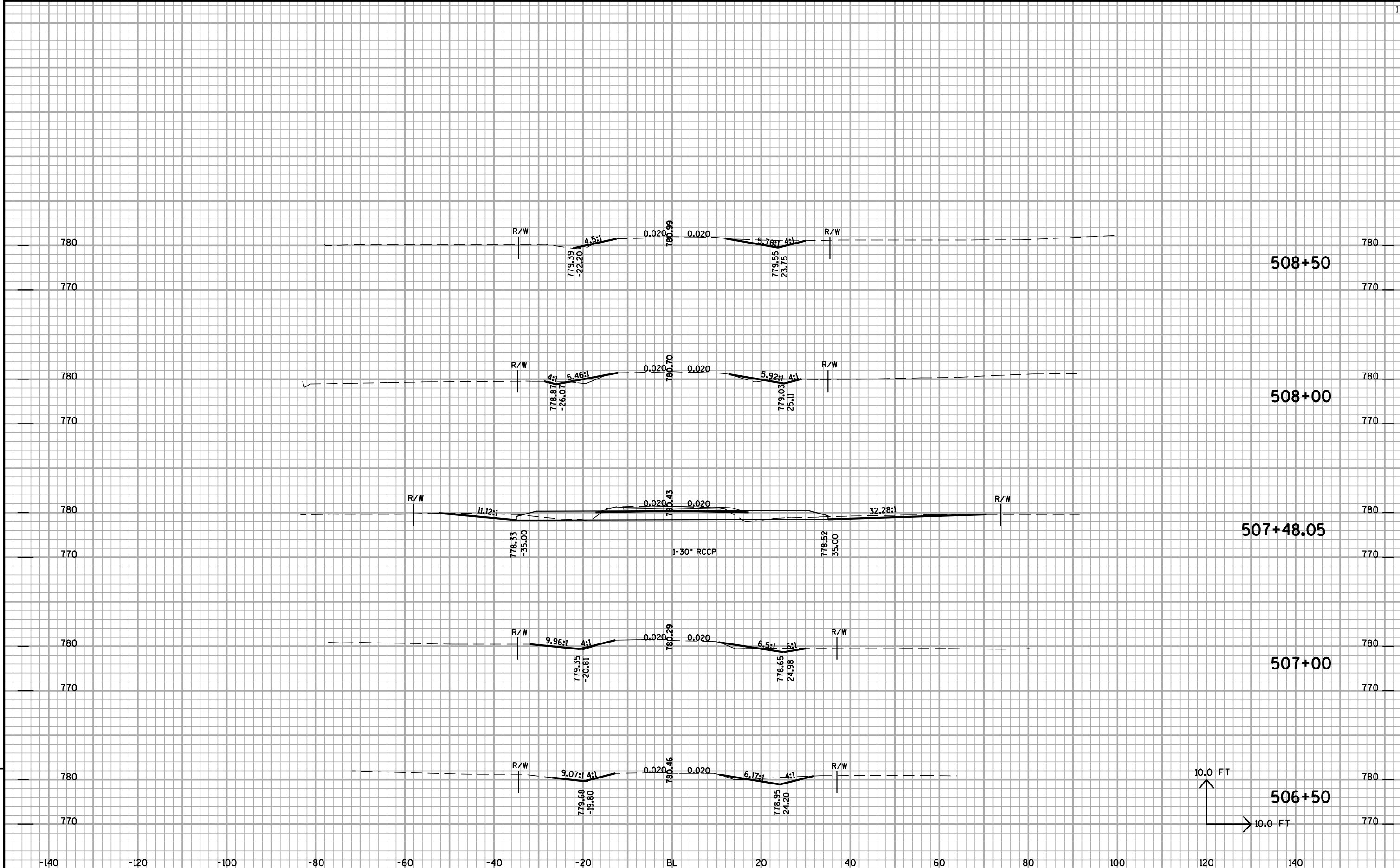


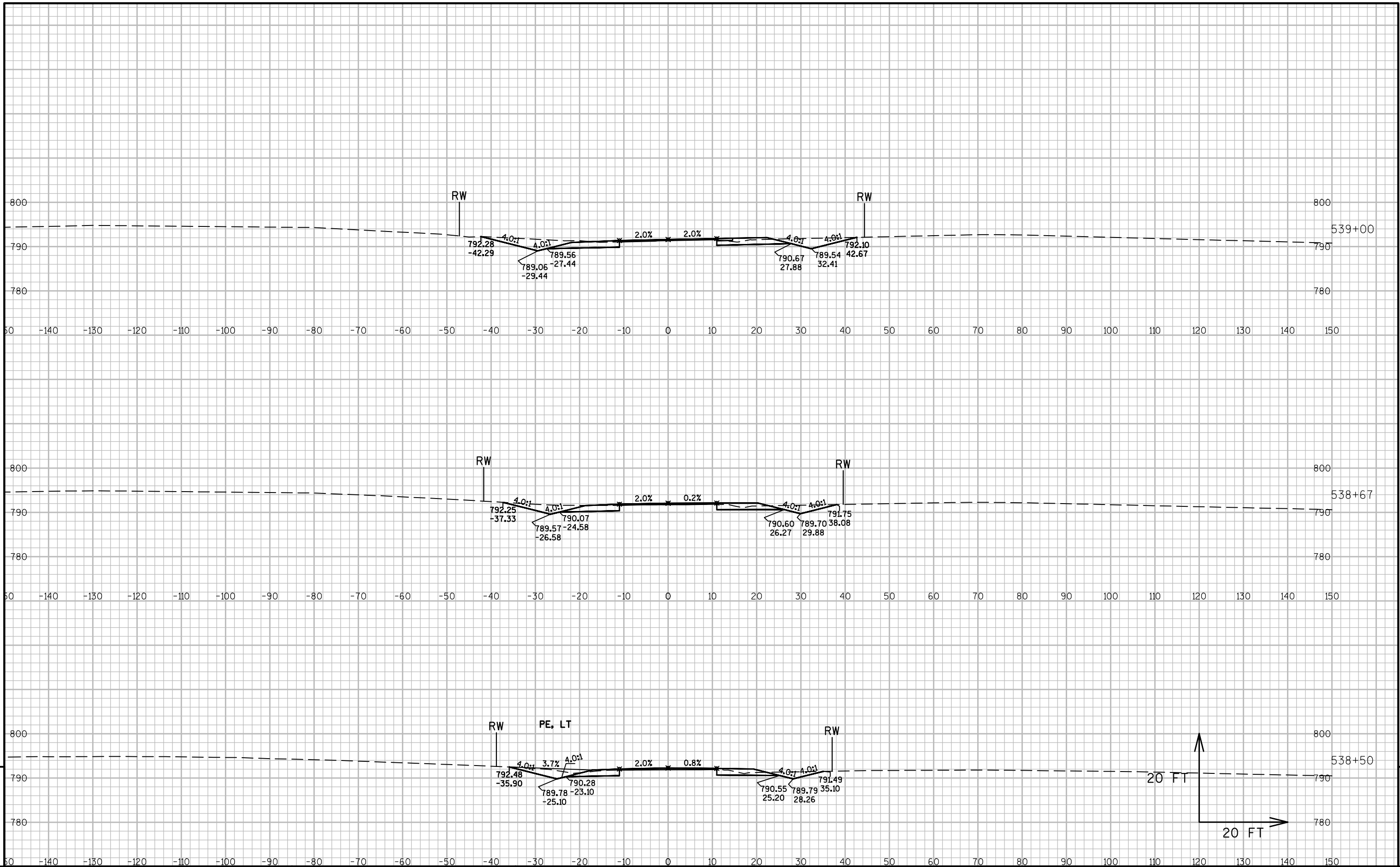
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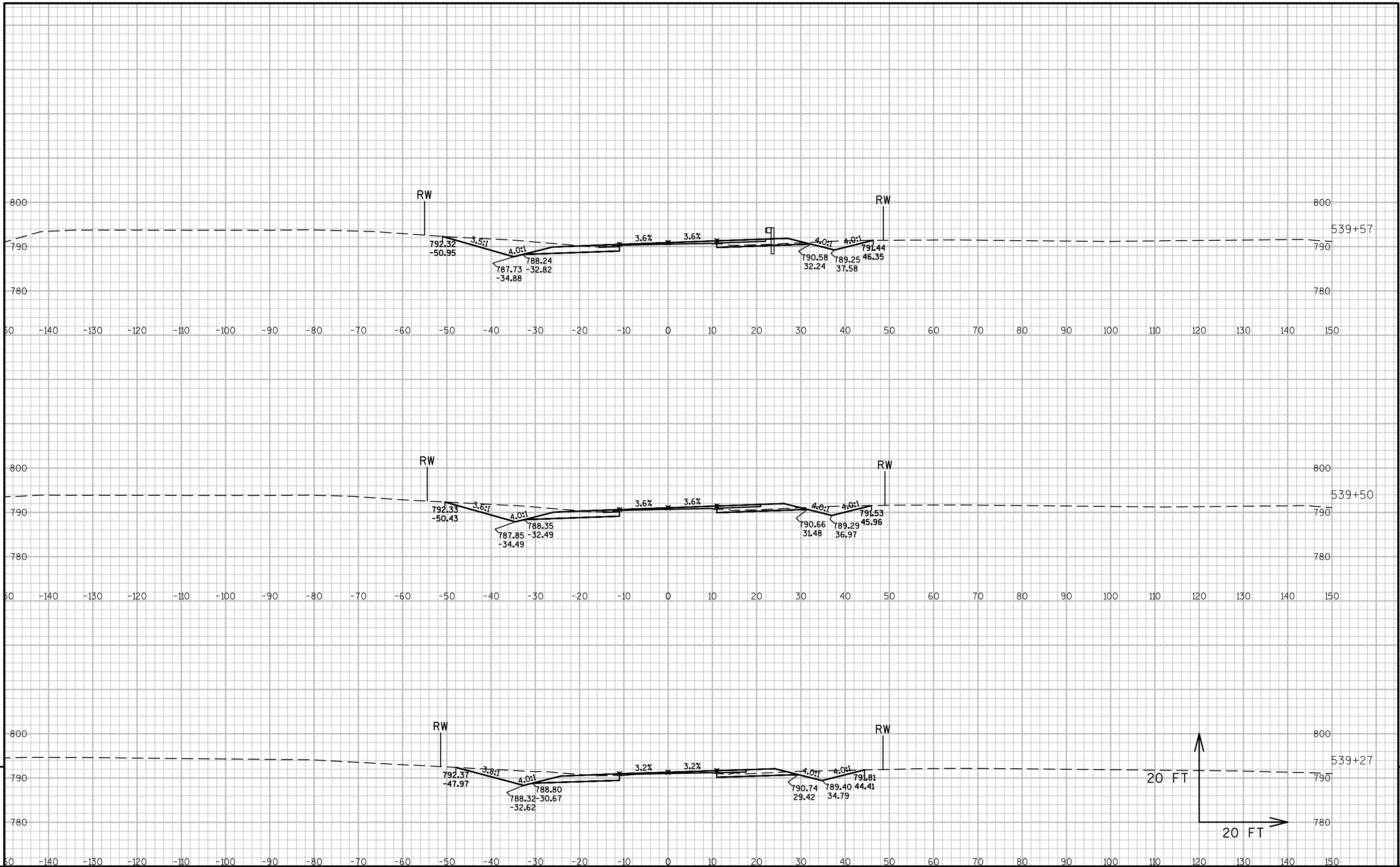
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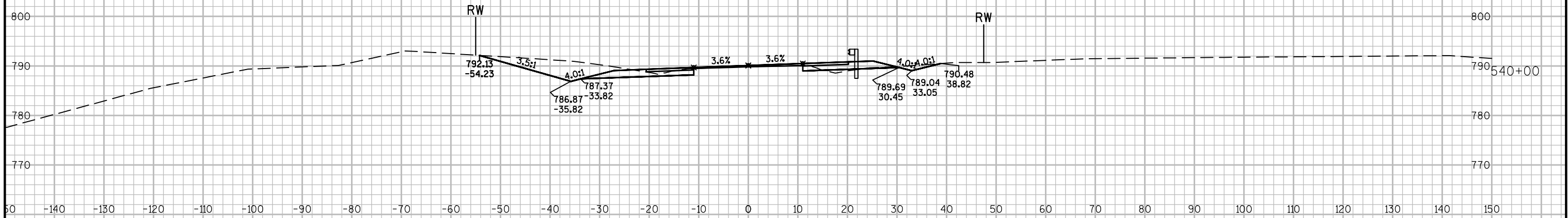


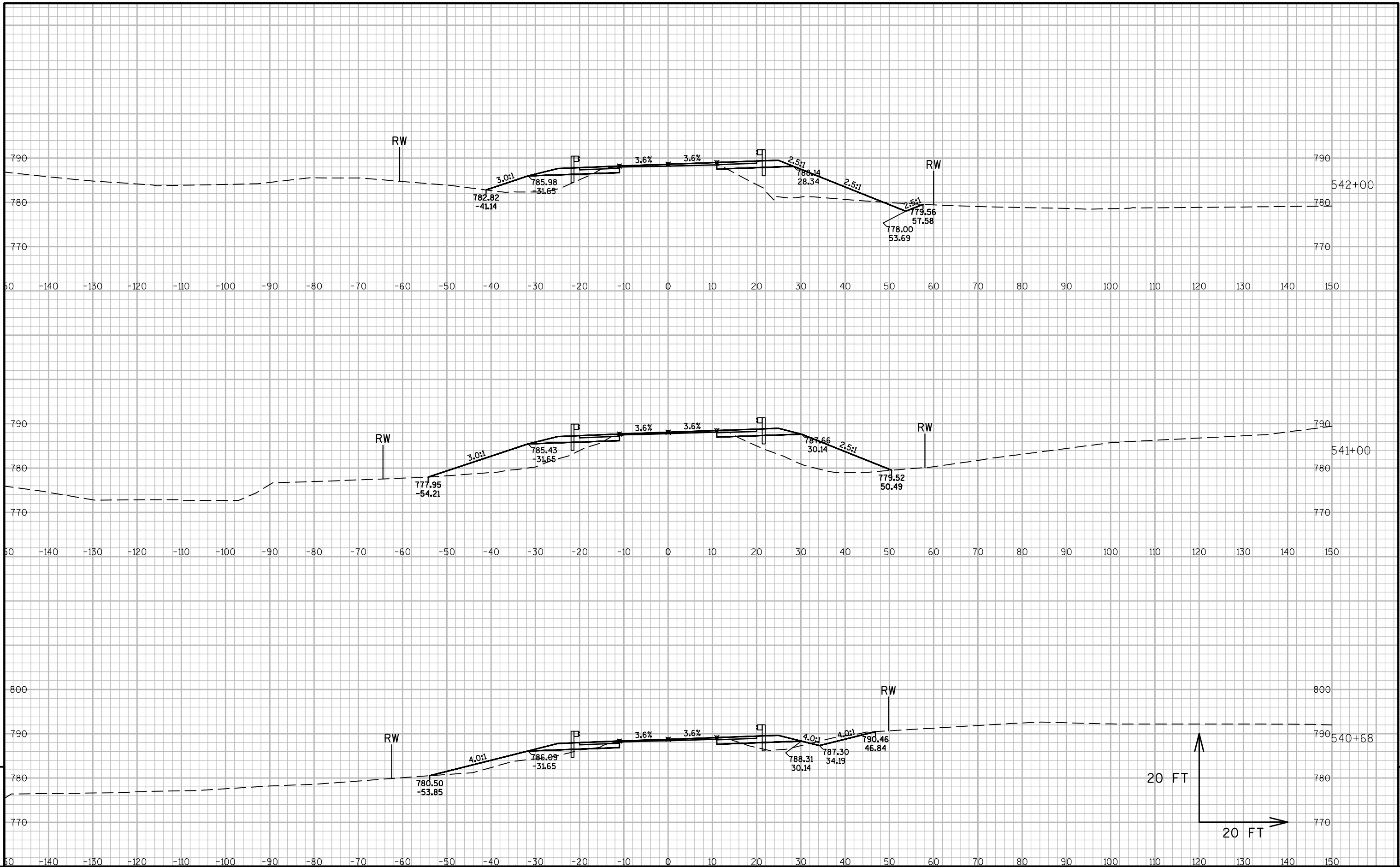


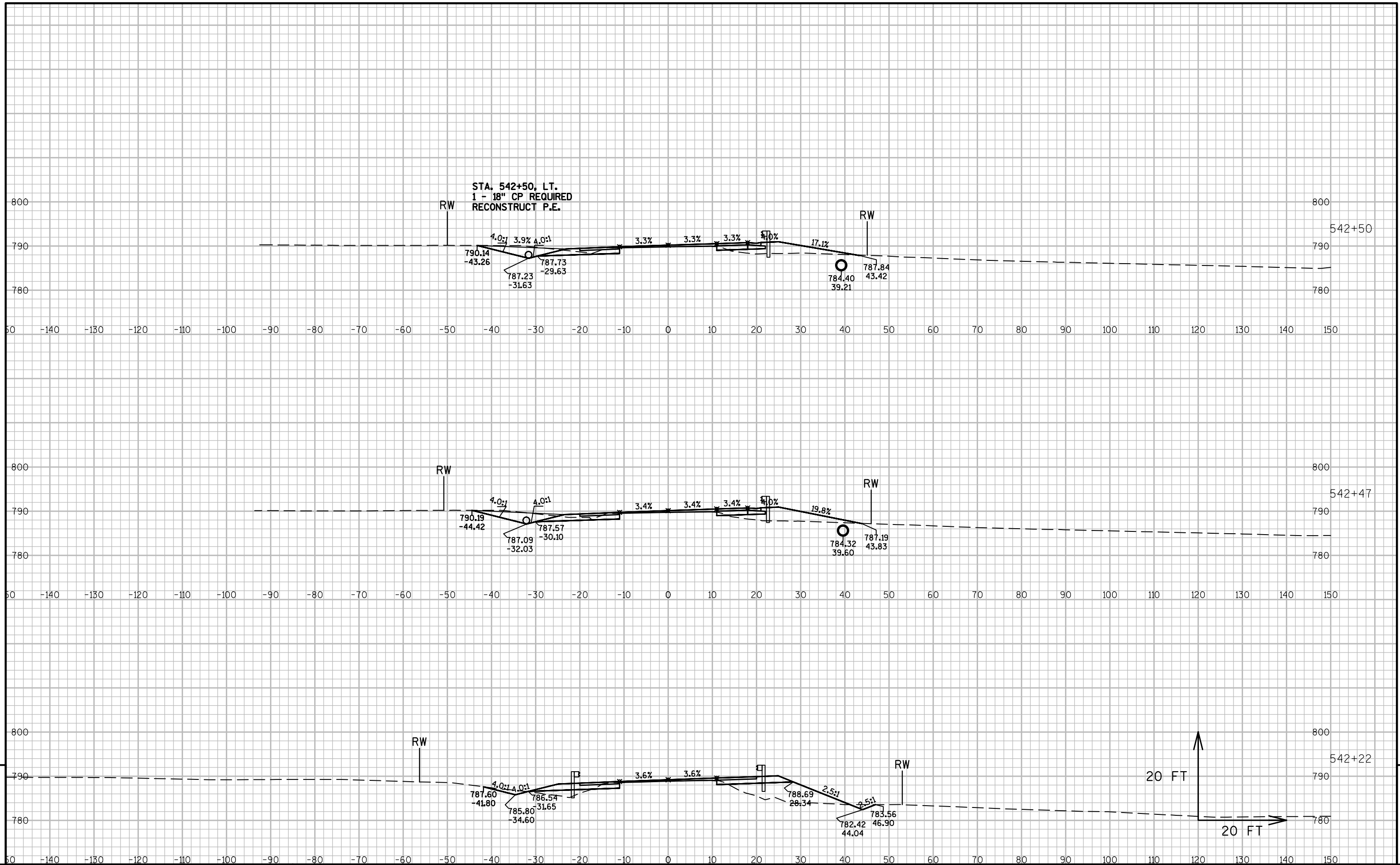


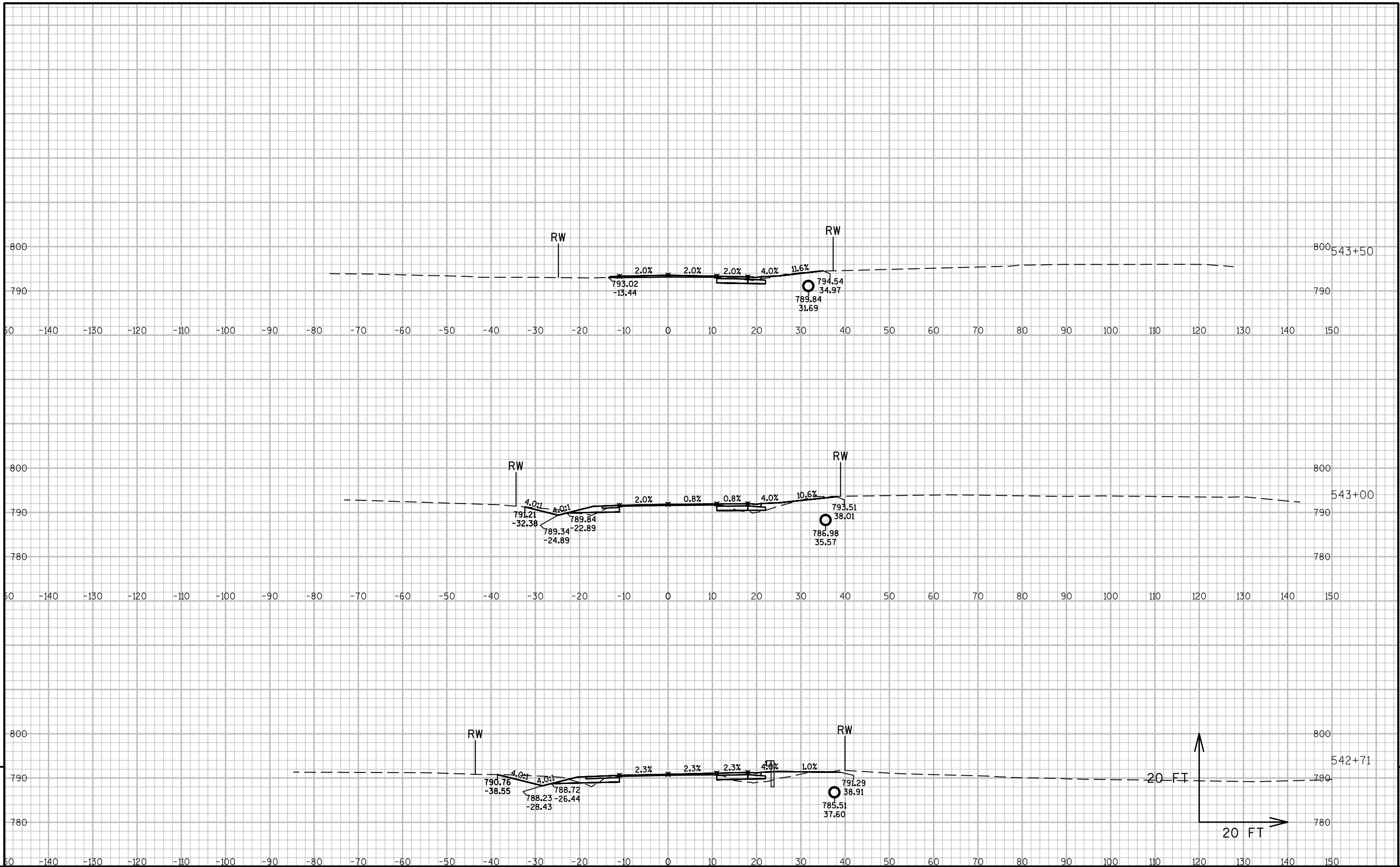


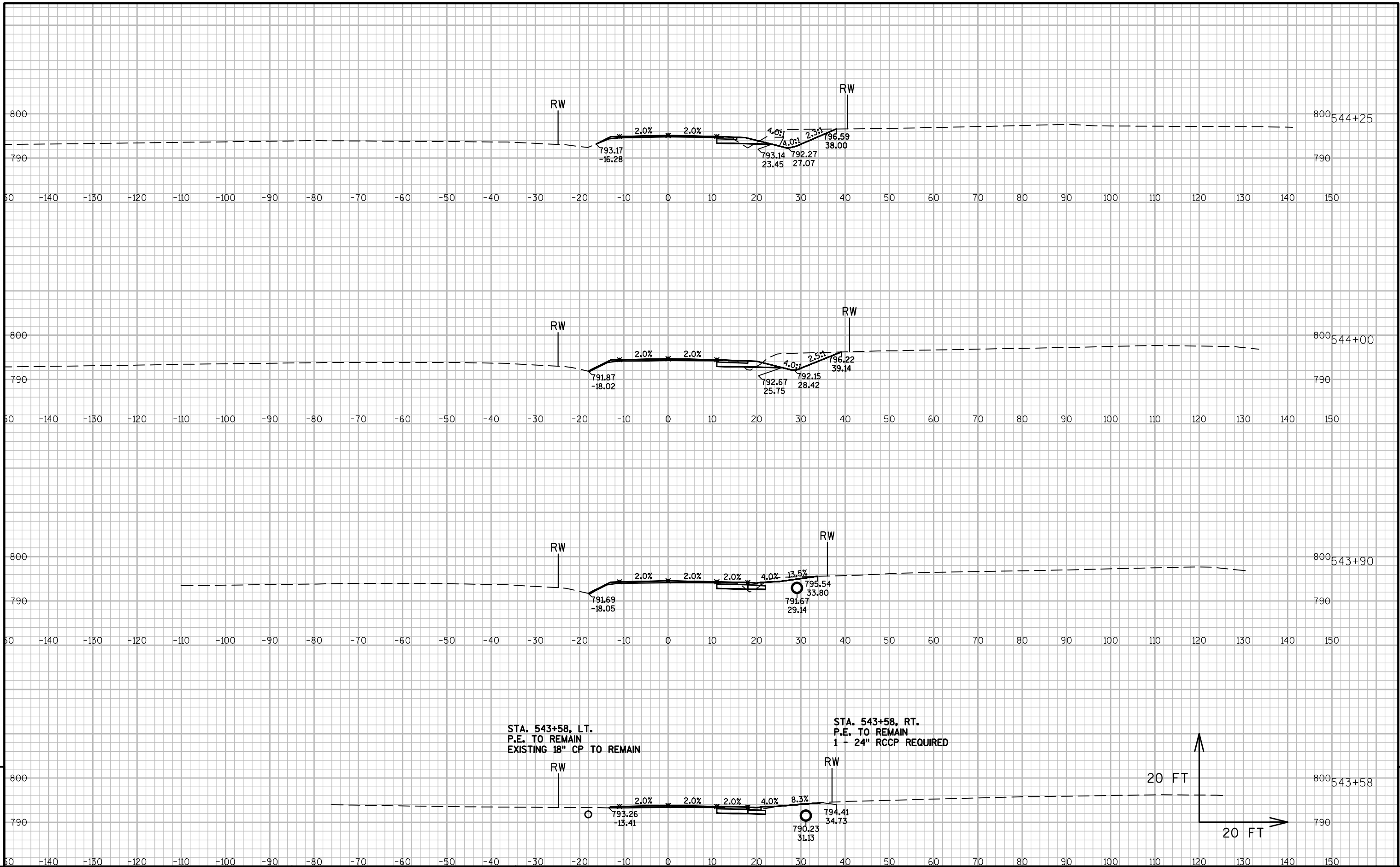


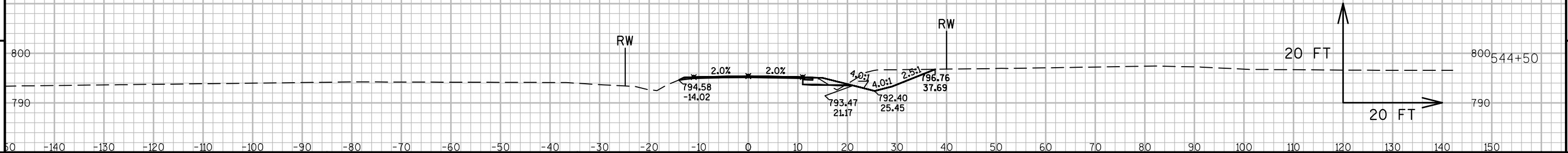
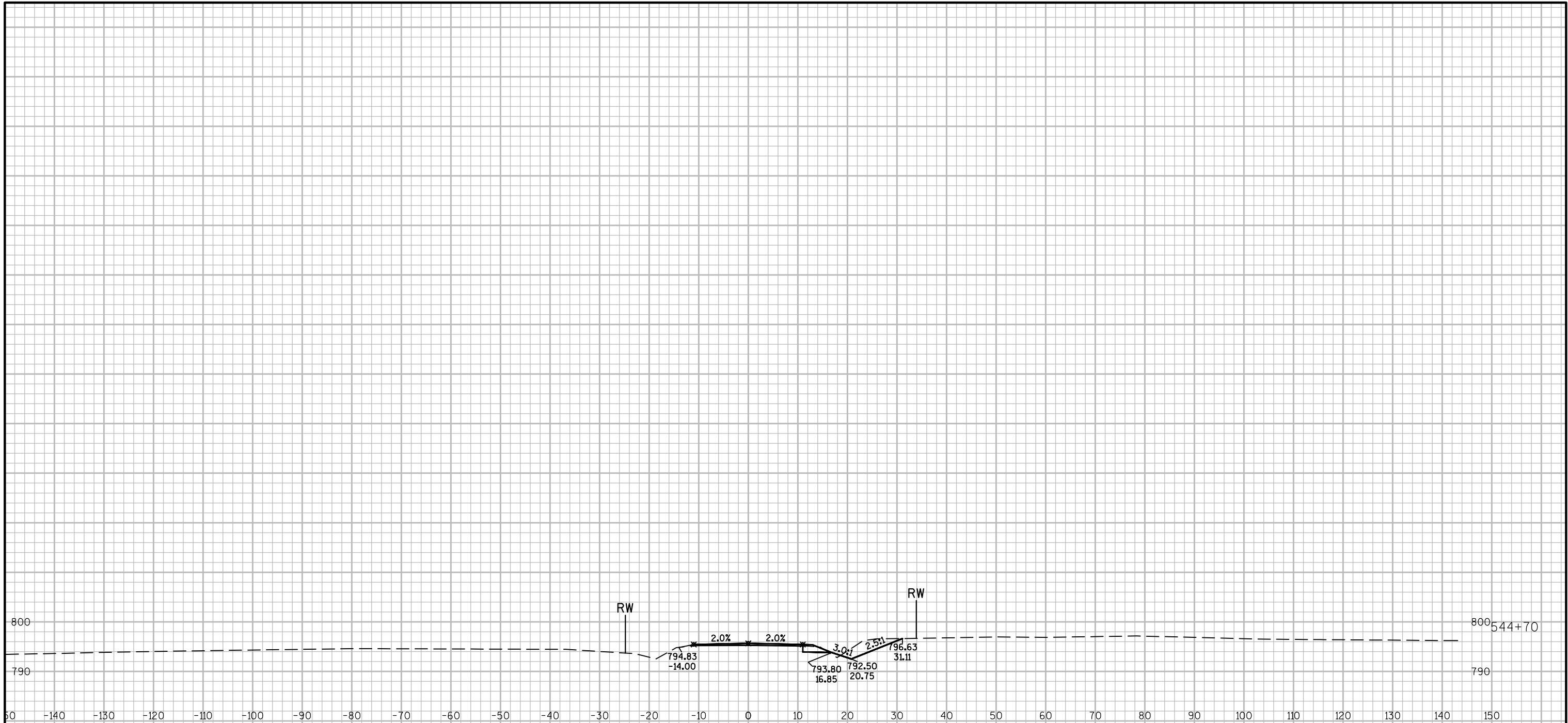


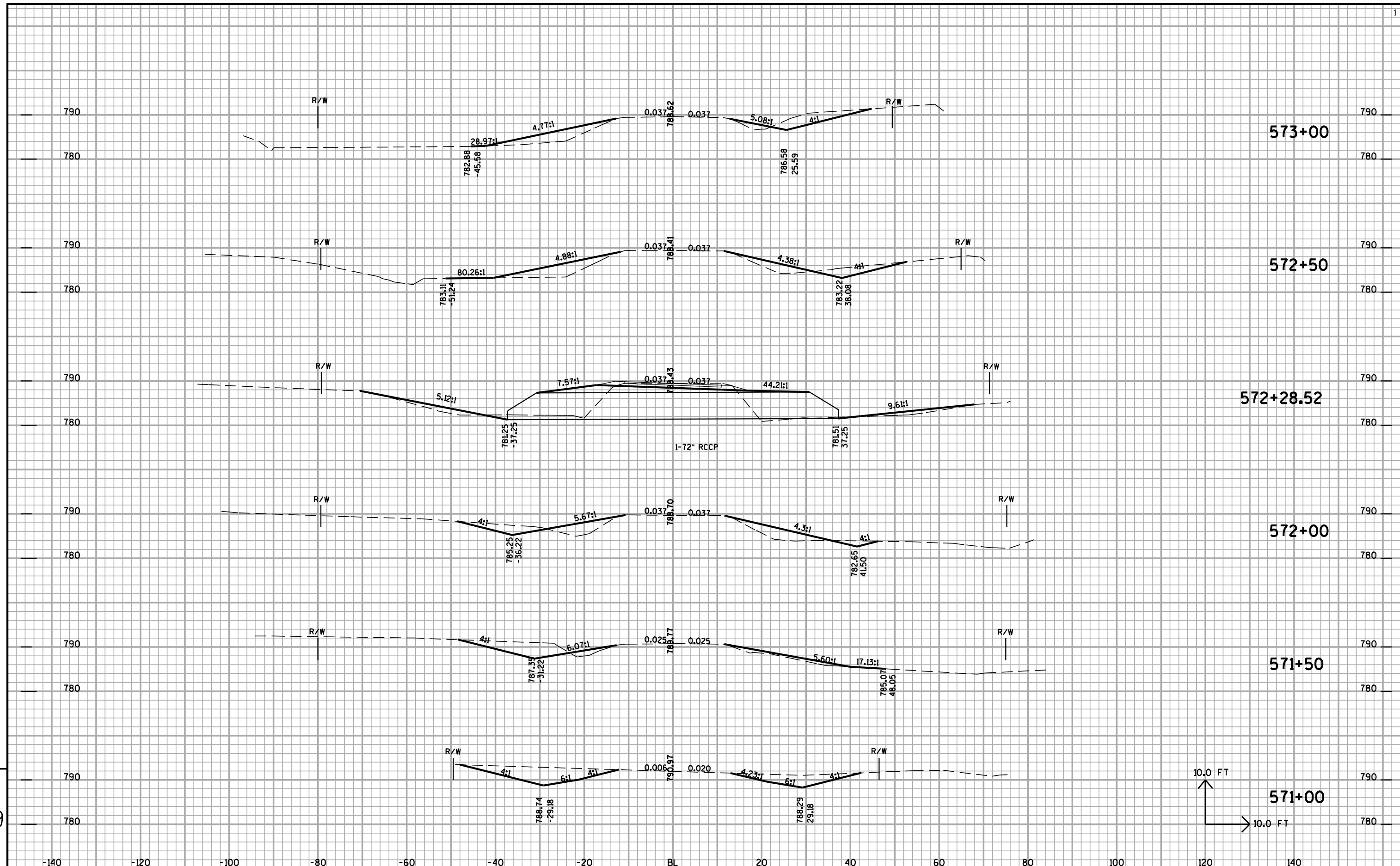


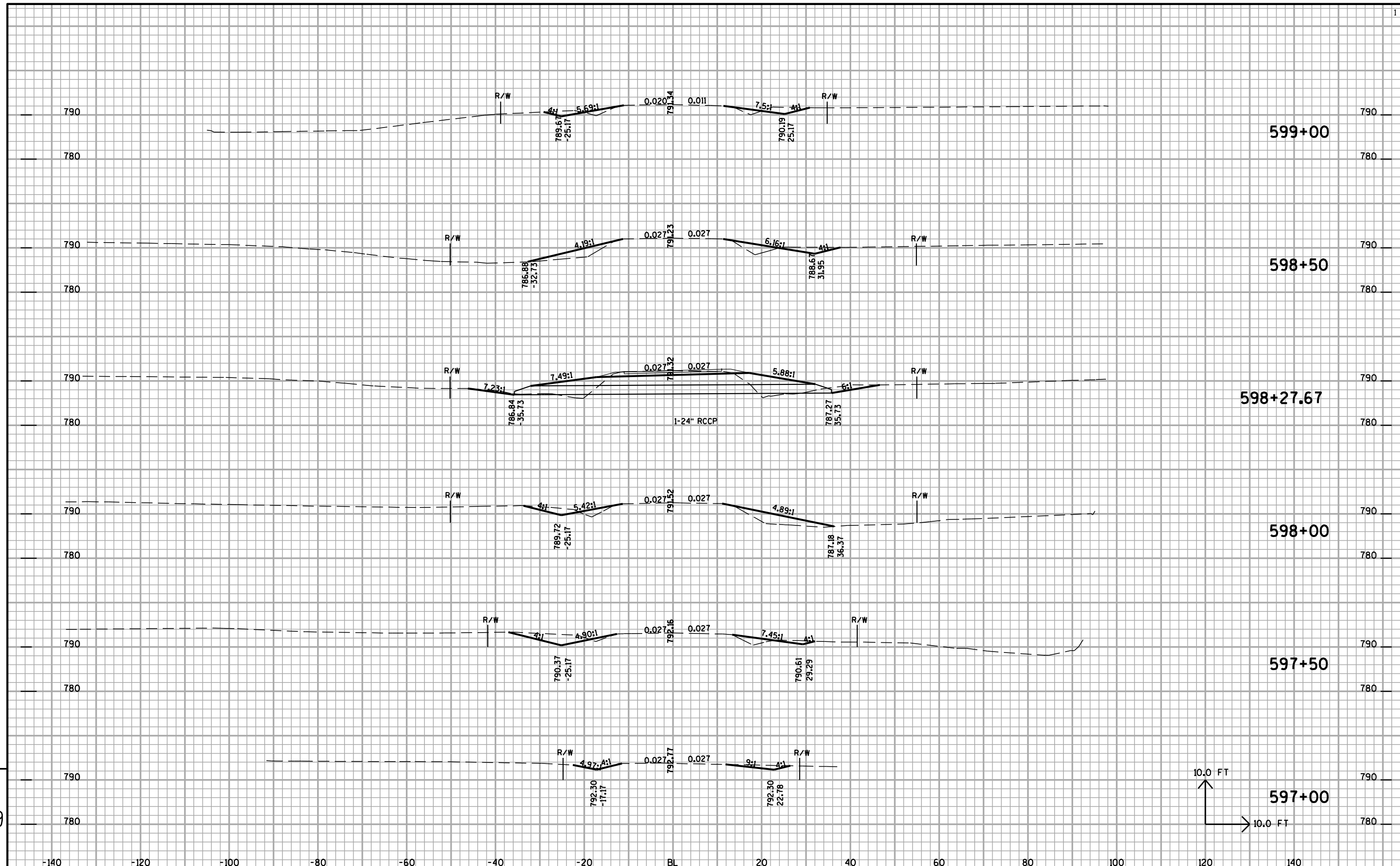


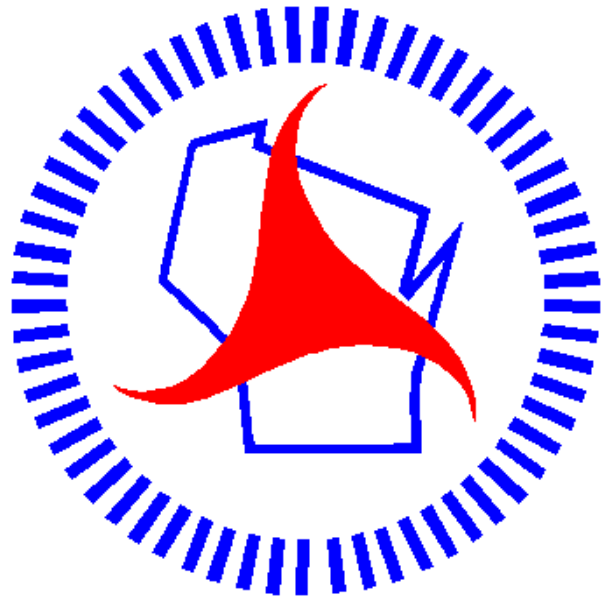












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