

RHI MAY 2017
PROJECT ID: 9010-03-60
COUNTY: MARATHON/SHAWANO

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

TOTAL SHEETS = 134



DESIGN DESIGNATION	
A.A.D.T. (2017)	= 2,400
A.A.D.T. (2037)	= 2,900
D.H.V.	= 11.9%
D.D.	= 60/40
T.	= 12%
DESIGN SPEED	= 55MPH
ESALS	=

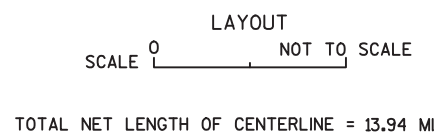
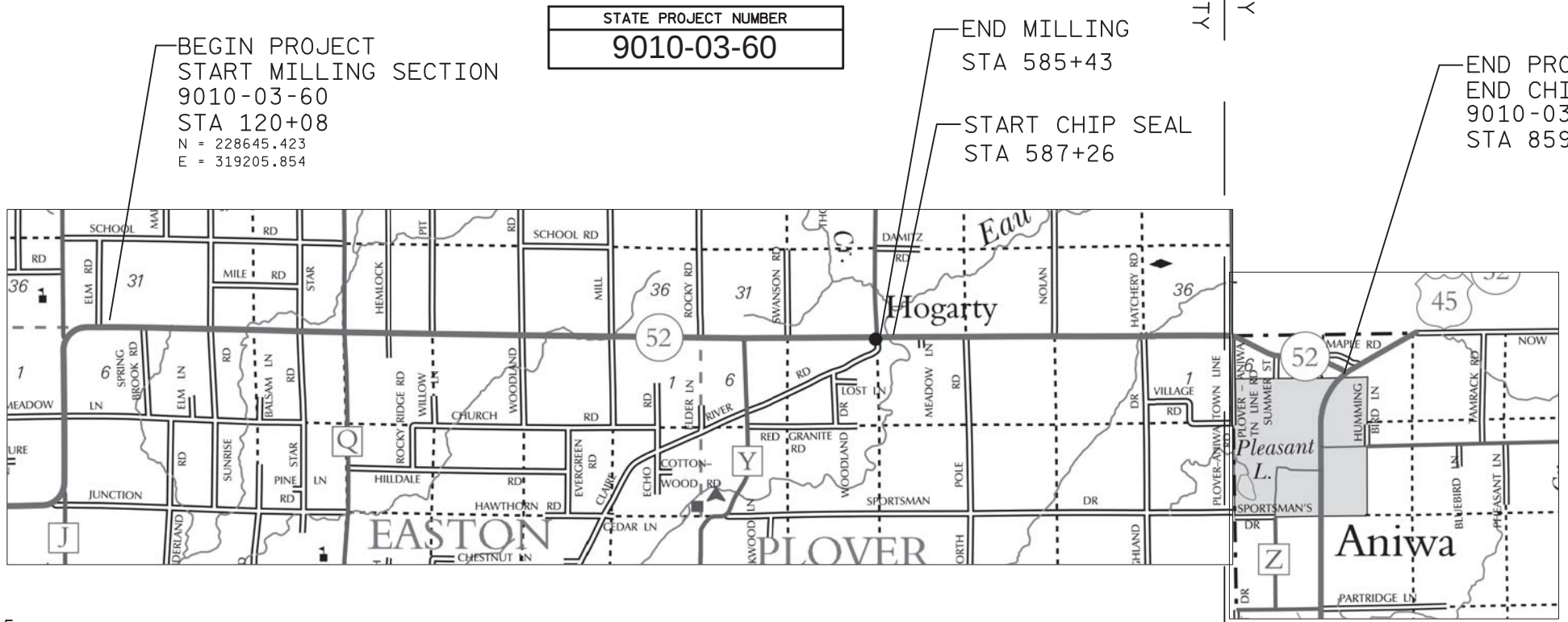
CONVENTIONAL SYMBOLS

PLAN	
CORPORATE LIMITS	////
PROPERTY LINE	---
LOT LINE	---
LIMITED HIGHWAY EASEMENT	---
EXISTING RIGHT OF WAY	---
PROPOSED OR NEW R/W LINE	---
SLOPE INTERCEPT	300'EB
REFERENCE LINE	---
EXISTING CULVERT	---
PROPOSED CULVERT (Box or Pipe)	---
COMBUSTIBLE FLUIDS	CAUTION
MARSH AREA	---
WOODED OR SHRUB AREA	---

PROFILE	
GRADE LINE	---
ORIGINAL GROUND	---
MARSH OR ROCK PROFILE (To be noted as such)	---
SPECIAL DITCH	---
GRADE ELEVATION	95.36
CULVERT (Profile View)	---
UTILITIES	
ELECTRIC	---
FIBER OPTIC	---
GAS	---
SANITARY SEWER	---
STORM SEWER	---
TELEPHONE	---
WATER	---
UTILITY PEDESTAL	---
POWER POLE	---
TELEPHONE POLE	---

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
PLAN OF PROPOSED IMPROVEMENT
WAUSAU - ANIWA
ELM ROAD TO USH 45
STH 52
MARATHON COUNTY

STATE PROJECT NUMBER
9010-03-60



HORIZONTAL & VERTICAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, MARATHON/SHAWANO COUNTY, NAD83 (YEAR), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE ARE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN. THE CONTRACTOR SHALL COORDINATE HIS CONSTRUCTION ACTIVITIES WITH A CALL TO DIGGERS HOTLINE AND/OR A DIRECT CALL TO THE UTILITIES THAT HAVE FACILITIES IN THE AREA. NOT ALL UTILITIES ARE MEMBERS OF DIGGERS HOTLINE.

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
9010-03-60	WISC 2017290	1

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
PREPARED BY	
Surveyor	SURVEYOR
Designer	TINA A. FLATER
Project Manager	JED P. PETERS
Regional Examiner	CHERYL L. SIMON
Regional Supervisor	ROBIN W. STAFFORD
APPROVED FOR THE DEPARTMENT	
DATE: 2/28/2017	(Signature)

GENERAL NOTES

- 1. WHEN THE QUANTITY OF THE ITEMS OF BASE AGGREGATE DENSE OR HMA PAVEMENT TYPE 3 LT 58-28 S IS MEASURED FOR PAYMENT BY THE TON, TH DEPTH OR THICKNESS SHOWN ON THE PLAN IS APPROXIMATE. THE ACTUAL PLAN WILL DEPEND ON THE DISTRIBUTION OF MATERIAL AS DIRECTED BY THE ENGINEER IN THE FIELD.
- 2. EXISTING CURVE SUPER ELEVATION SHALL BE RESTORED IN KIND.
- 3. THERE MAY BE UTILITY FACILITIES WITHIN THE PROJECT AREA WHICH ARE NOT SHOWN ON THE PLAN. THE CONTRACTOR SHALL COORDINATE HIS CONSTRUCTION WITH A CALL TO DIGGERS HOTLINE AND/OR A DIRECT CALL TO THE UTILITIES THAT HAVE FACILITIES IN THE AREA. NOT ALL UTILITIES ARE MEMBERS OF DIGGERS HOTLINE.

CONTACTS

ATC Management, Inc-Electricity
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809 5th Ave Po Box 370
Antigo WI 54409
Jack Zimmermann
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715-297-9862 (Mobile)
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Packerland Broadband-Communications
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Iron Mountain, MI 49801
Randy Simms
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Wisconsin Public Service Corporation-Electricity
PO Box 1166
Wausau, WI 54402
Clayton Vircks
715-848-7317 (Office)
715-573-7806 (Mobile)
chvircks@wisconsinpublicservice.com

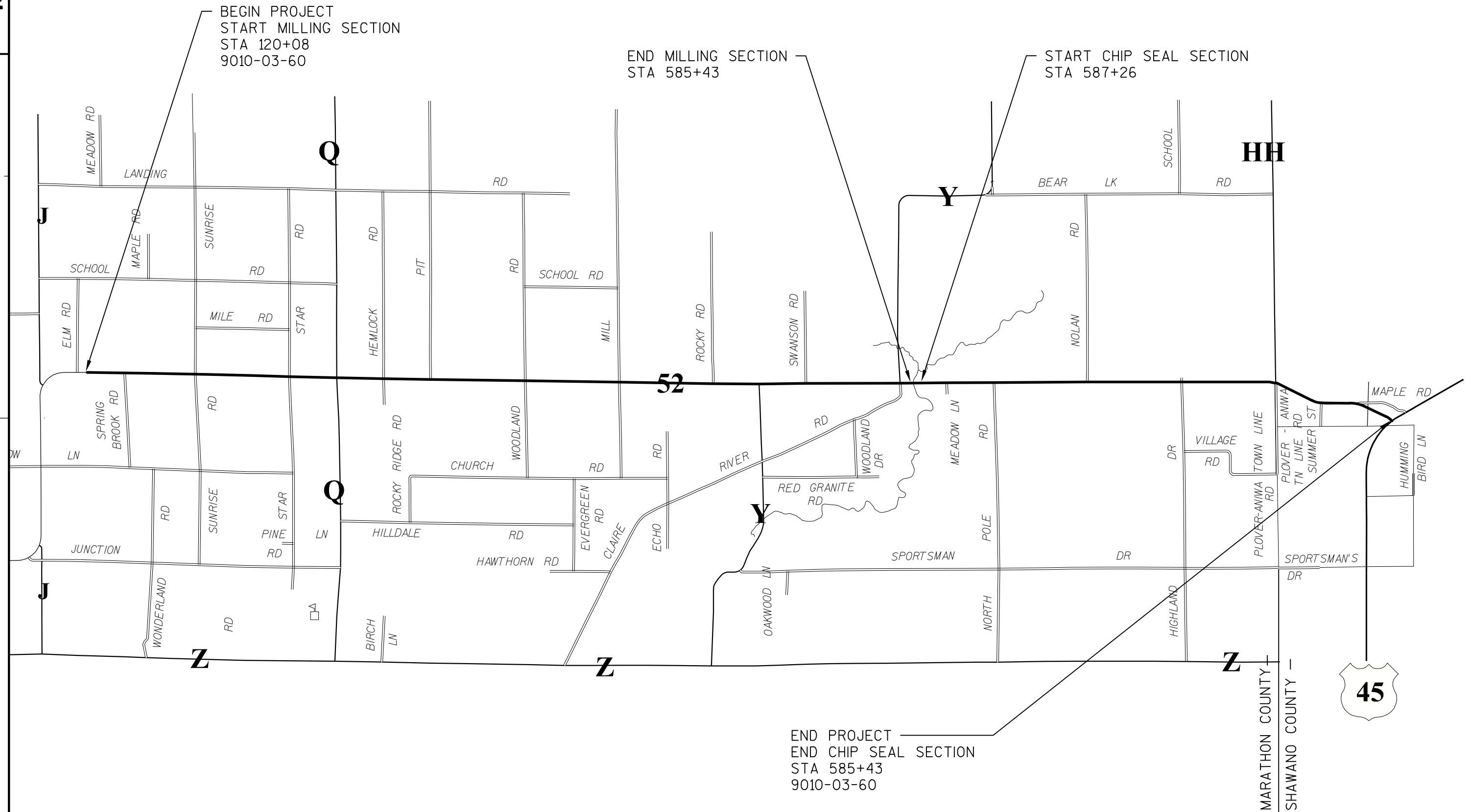
Wittenberg Telephone Company-Communication line
104 W Walker St
Wittenberg, WI 54499
Scott Sickler
715-253-3229 (Office)
715-881-0302 (Mobile)
scott@wittelco.com

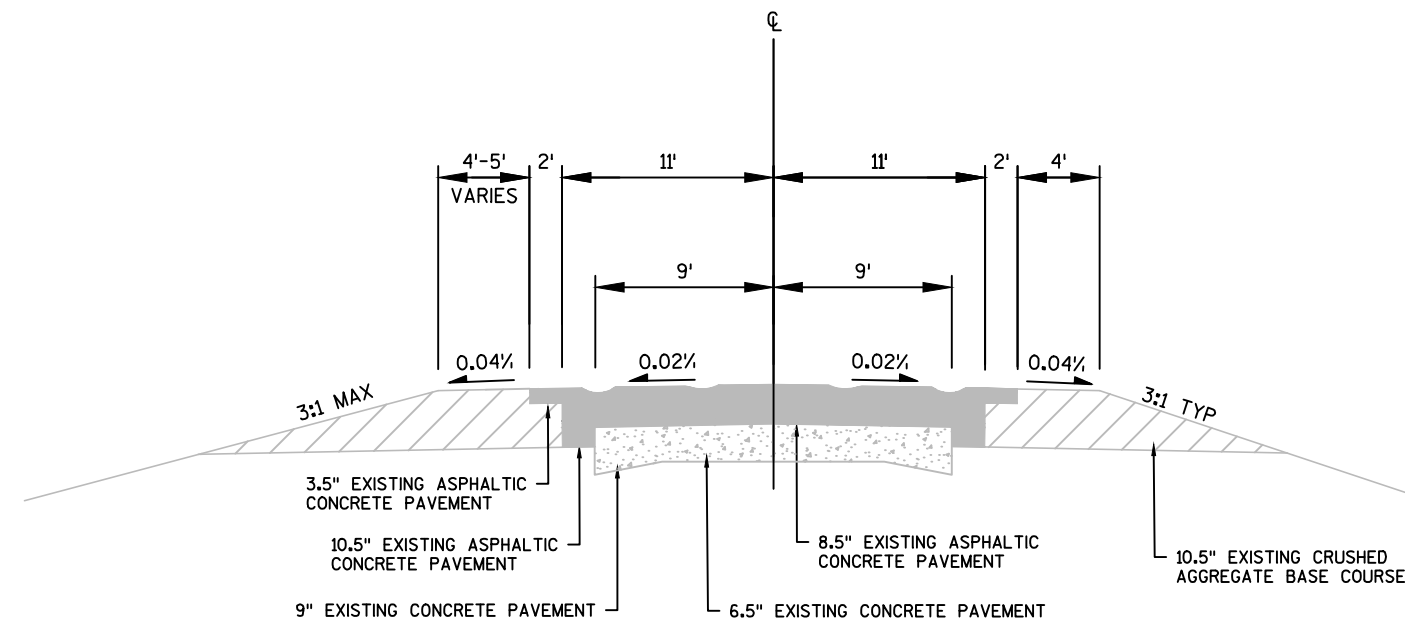
WISCONSIN DNR
473 GRIFFITH DR.
WISCONSIN RAPIDS, WI 54494
MARC HERSHFELD
(715)-421-7876
marc.hershfield@wisconsin.gov

SECTION 2 SHEET ORDER

- PROJECT OVERVIEW
- TYPICAL SECTIONS
- CONSTRUCTION DETAILS
- PERMANENT SIGNING
- EROSION CONTROL AND DRAINAGE
- TRAFFIC CONTROL
- PLAN AND PROFILE
- ALIGNMENT (LINE DIAGRAM)
- CROSS SECTIONS







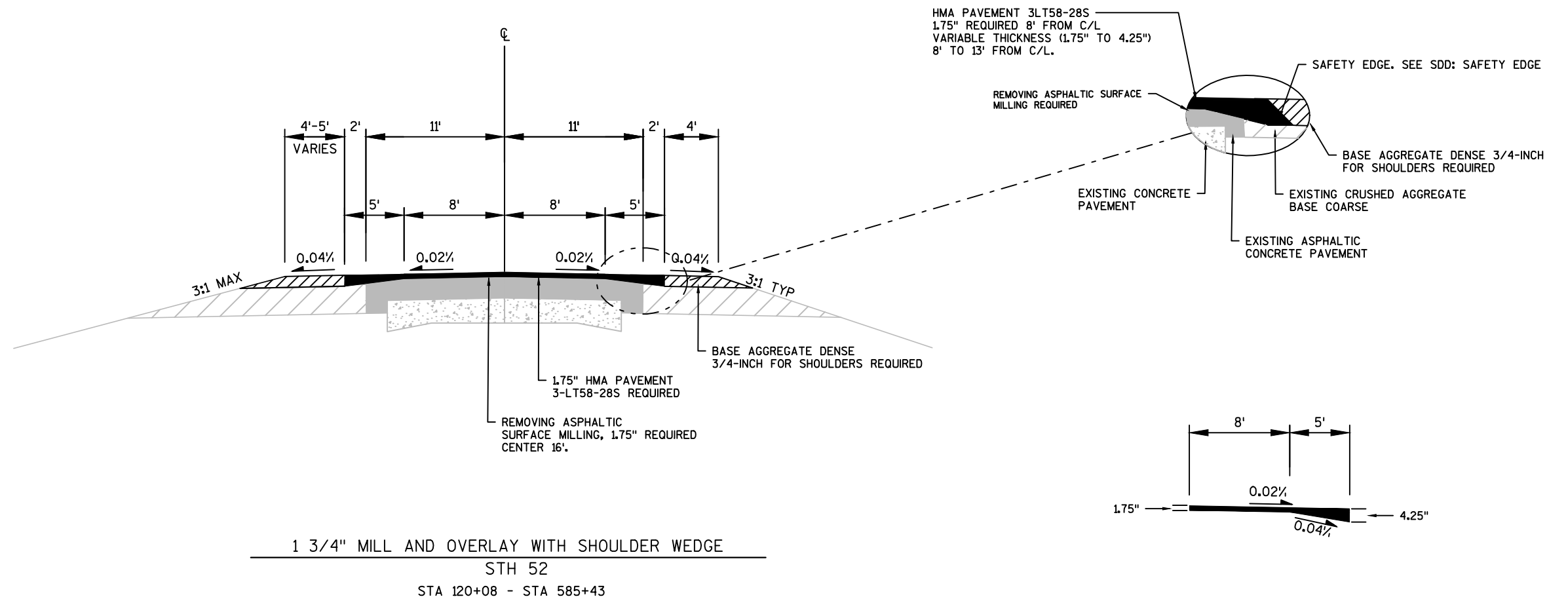
EXISTING TYPICAL SECTION

STH 52

STA 120+08 - STA 585+43
STA 587+26 - STA 859+00

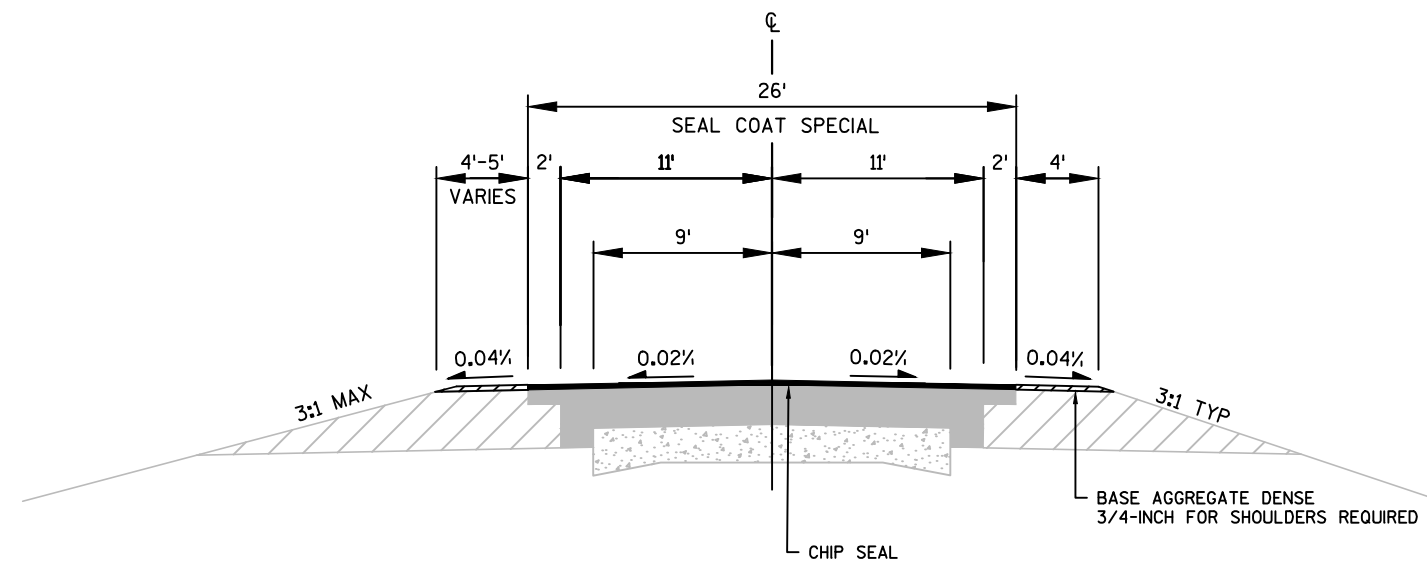
LEGEND

-  EXISTING ASPHALTIC PAVEMENT
-  EXISTING CONCRETE PAVEMENT
-  EXISTING CRUSHED AGGREGATE BASE COARSE



LEGEND

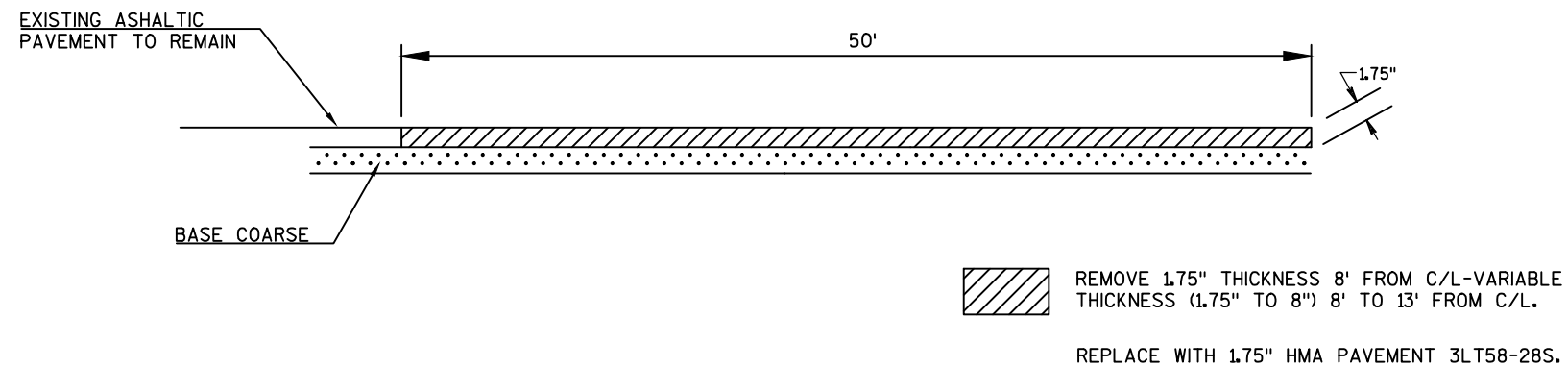
- EXISTING ASPHALTIC PAVEMENT
- EXISTING CONCRETE PAVEMENT
- EXISTING CRUSHED AGGREGATE BASE COARSE
- HMA PAVEMENT 3LT58-28S
- BASE AGGREGATE DENSE 3/4-INCH FOR SHOULDERS



CHIP SEAL SECTION
STH 52
STA 587+26 - STA 859+00

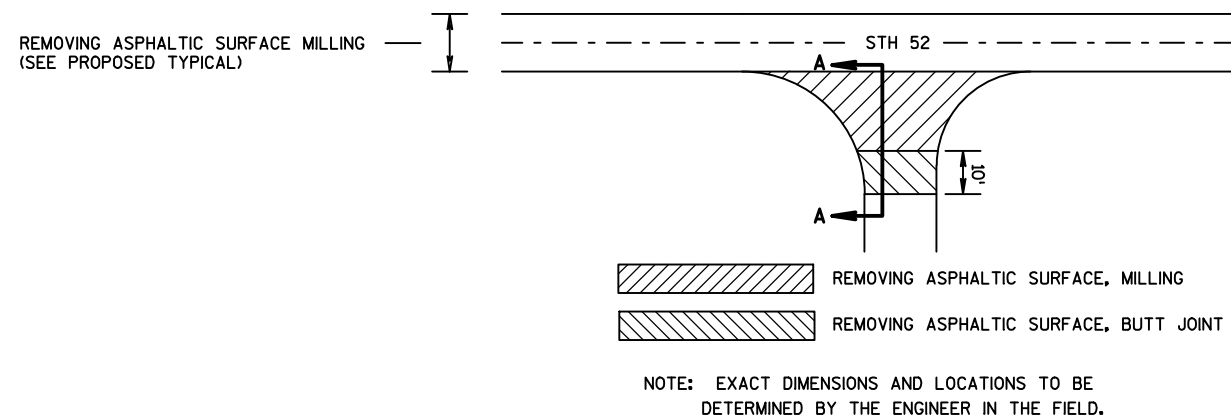
LEGEND

- EXISTING ASPHALTIC PAVEMENT
- EXISTING CONCRETE PAVEMENT
- EXISTING CRUSHED AGGREGATE BASE COARSE
- CHIP SEAL
- BASE AGGREGATE DENSE 3/4-INCH FOR SHOULDERS



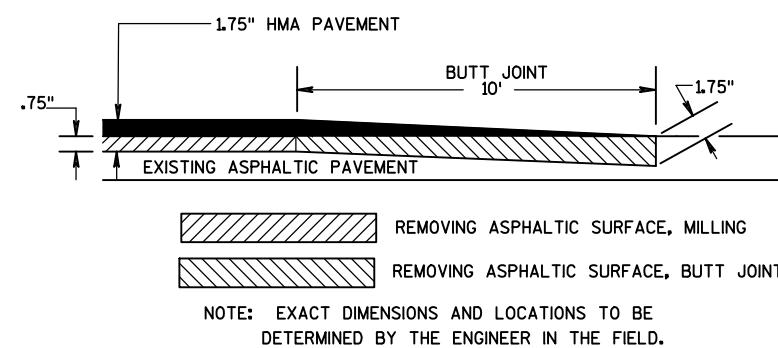
REMOVING ASPHALTIC SURFACE BUTT JOINTS, (MAINLINE DETAIL)

STA 120+08
STA 158+93
STA 160+36
STA 204+58
STA 206+05
STA 584+93

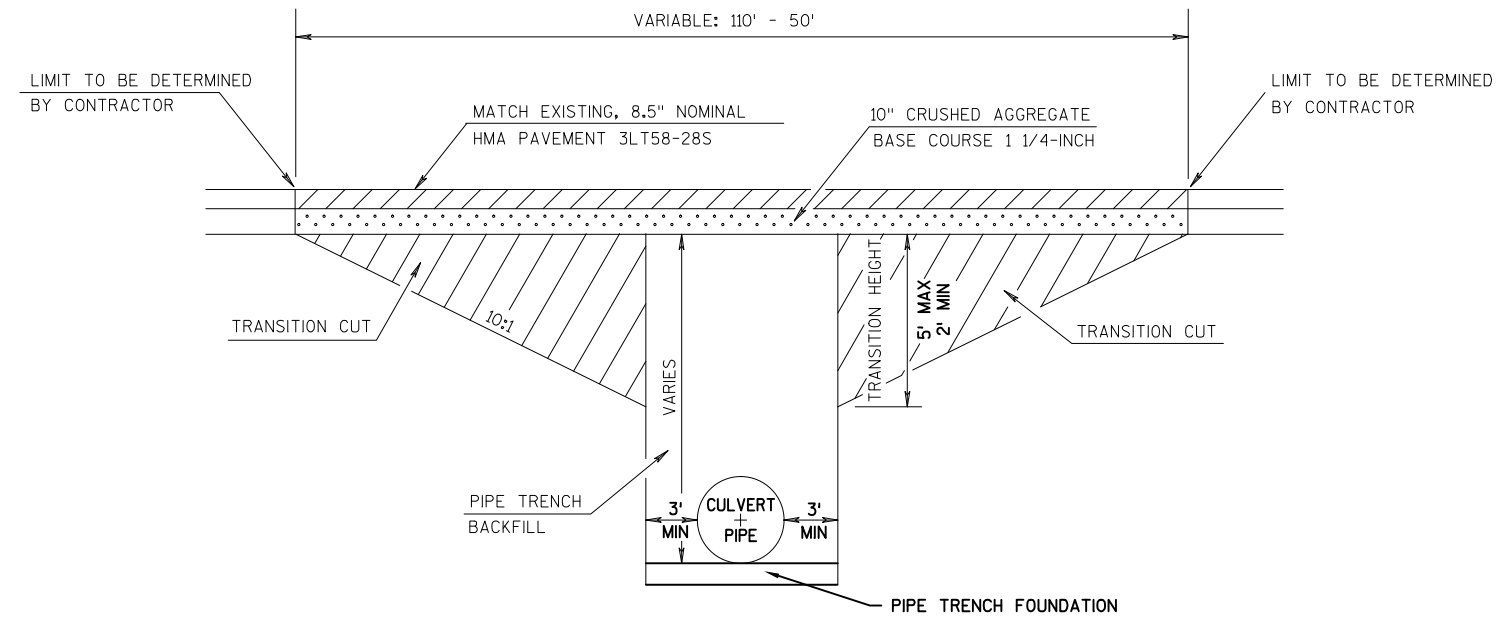


BUTT JOINT DETAIL

SIDE ROADS WITHOUT CURB AND GUTTER AND DRIVEWAYS

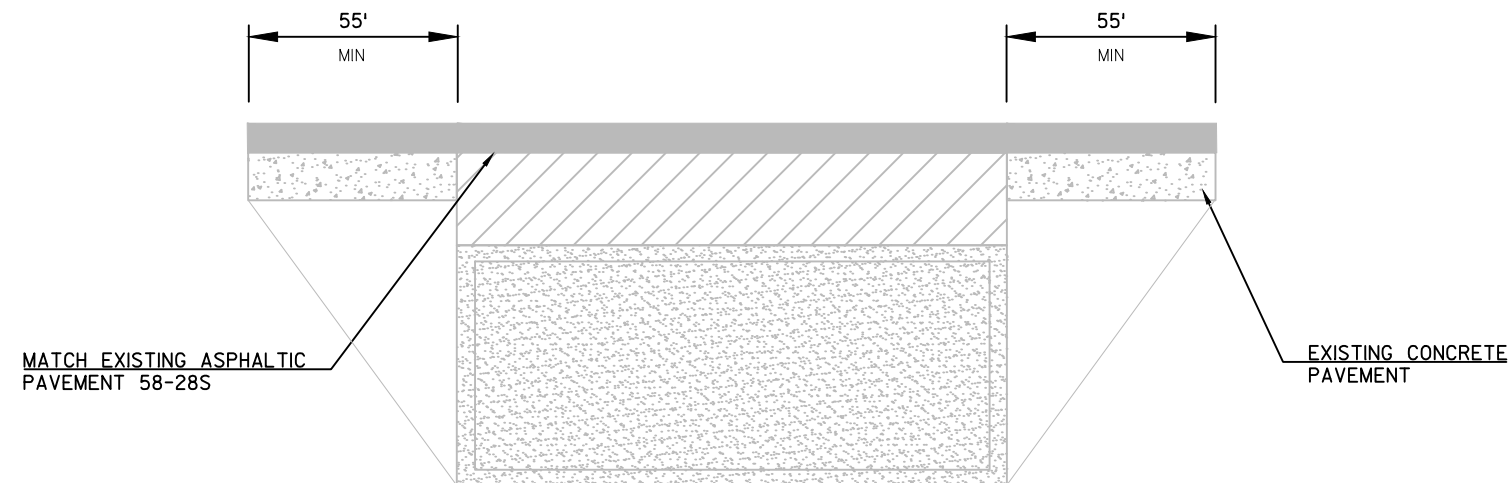


SECTION A-A



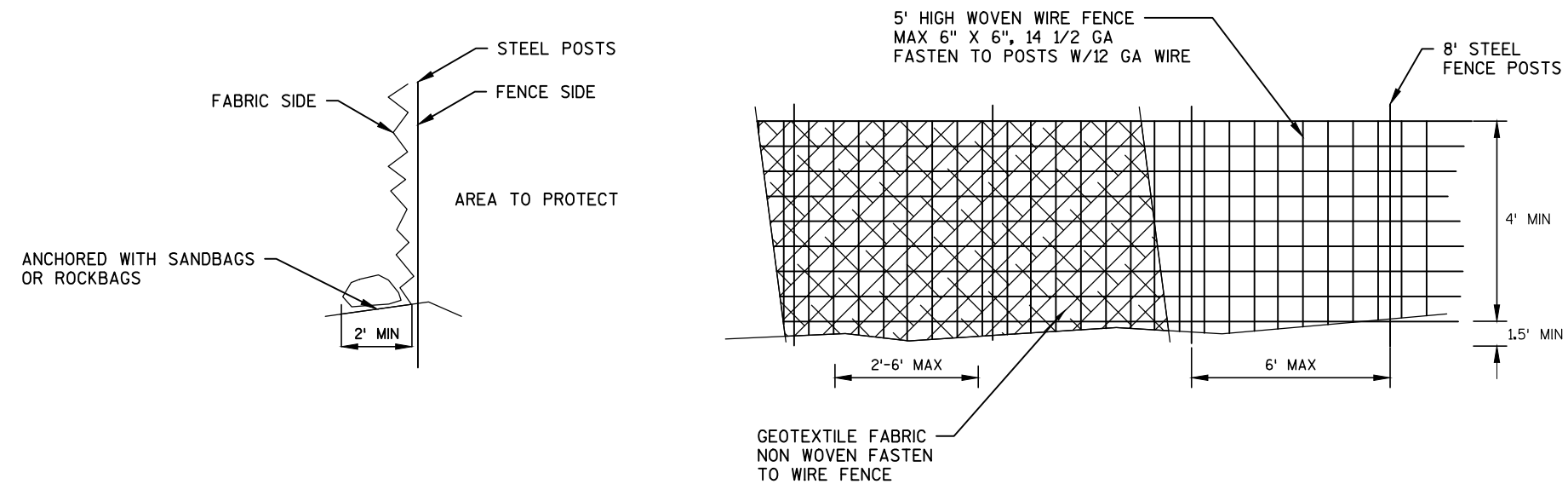
CULVERT PIPE TRANSITION

STA 217+25 - STA 218+75
 STA 219+50 - STA 221+00
 STA 277+75 - STA 279+25
 STA 314+75 - STA 316+50
 STA 459+50 - STA 461+25
 STA 466+25 - STA 467+75
 STA 524+25 - STA 526+00
 STA 605+25 - STA 607+00
 STA 659+50 - STA 661+50

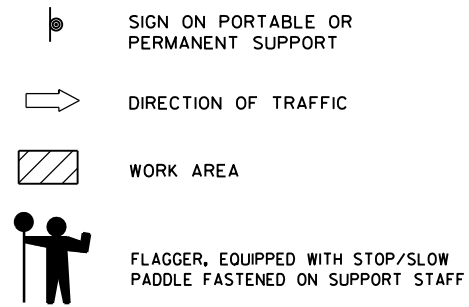


BOX CULVERT PIPE TRANSITION

STA 382+90 - STA 384+10
 STA 395+90 - STA 401+10
 STA 479+55 - STA 480+60

**HEAVY DUTY SILT FENCE**

LEGEND

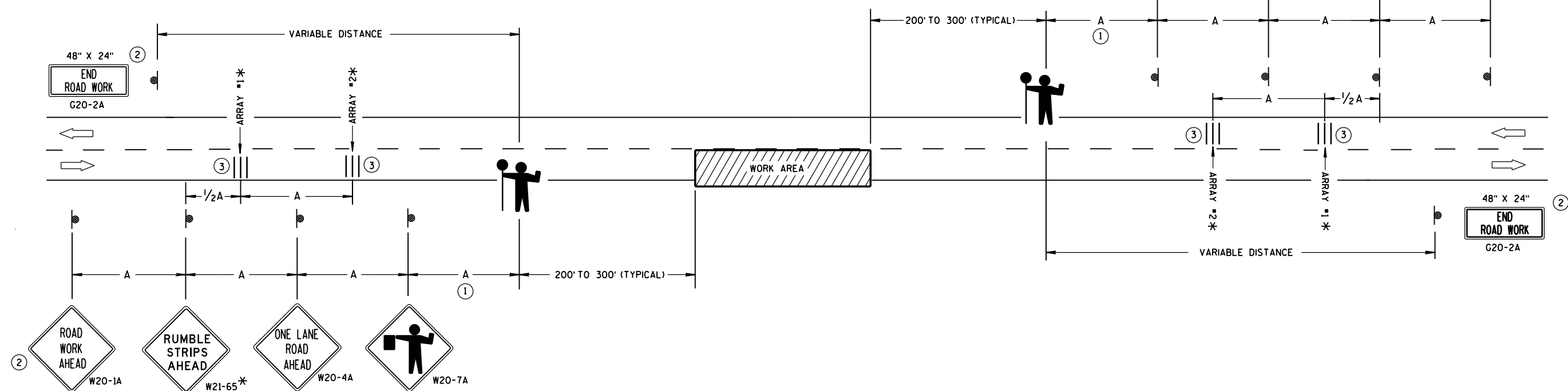


SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

SPEED LIMIT	SPACING A
25-35 MPH	200'
35-40 MPH	350'
45-55 MPH	500'



USE OF THE "BE PREPARED TO STOP" SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7A AND W20-4A SIGNS, USING SPACING A.



TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

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

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

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

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS. PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT, REMOVE TEMPORARY RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.

* UTILIZE TEMPORARY RUMBLE STRIPS WHEN FLAGGING OPERATION IS ANTICIPATED TO BE STATIONARY IN EXCESS OF TWO HOURS.

- FOR A MOVING WORK OPERATION, SIGNING AND TEMPORARY RUMBLE STRIPS (IF USED) SHALL BE REESTABLISHED (AS SIMULTANEOUSLY AS PRACTICAL) AT APPROXIMATELY 3,500 FOOT INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.
- SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.
- EACH TEMPORARY RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS SPACED ACCORDING TO MANUFACTURER'S RECOMMENDATION, PLACED TRANSVERSE ACROSS THE LANE AT LOCATIONS SHOWN.

PROJECT NO: 9010-03-60

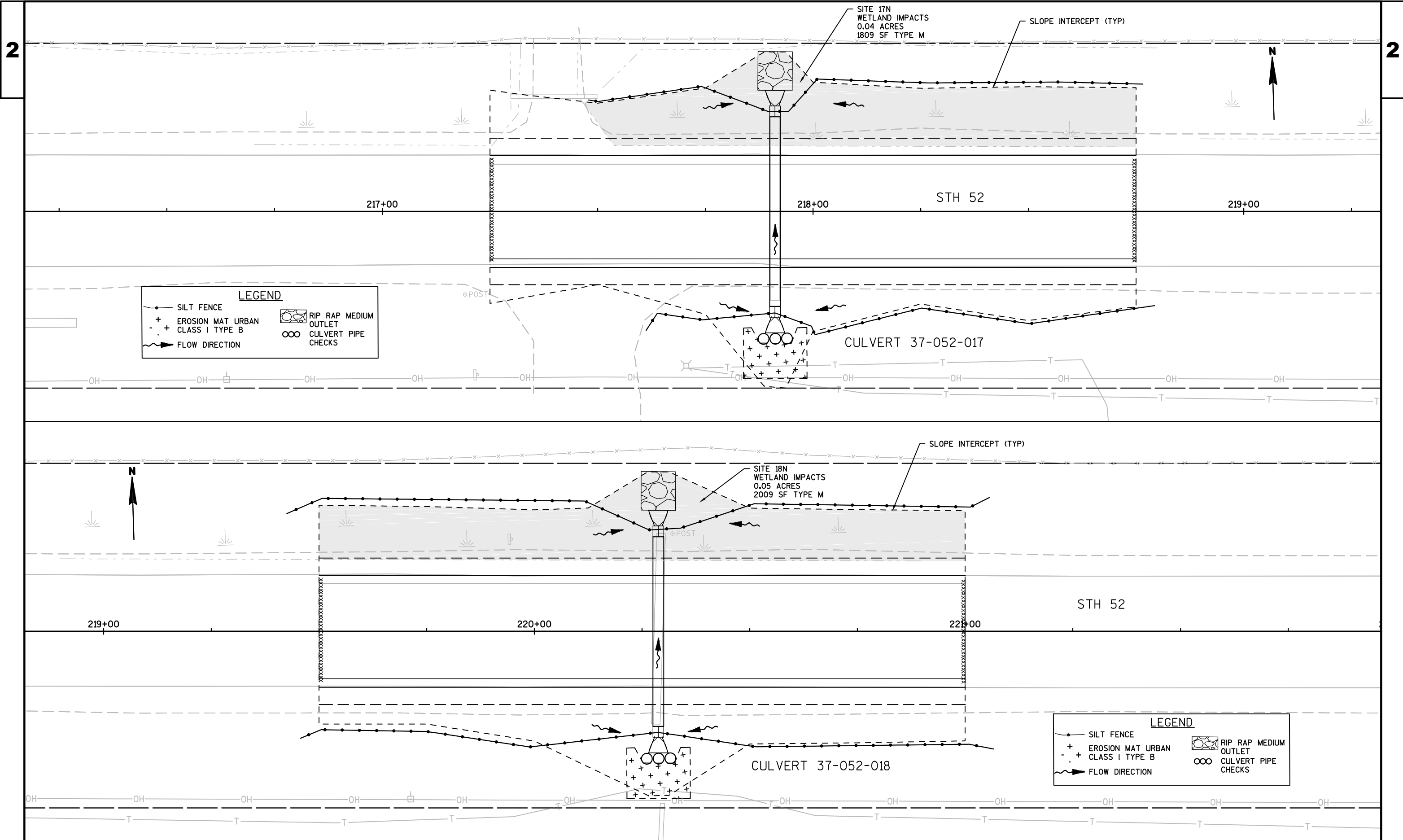
HWY: STH 52

COUNTY: MARATHON/SHAWANO

CONSTRUCTION DETAIL

SHEET

E



PROJECT NO: 9010-03-60

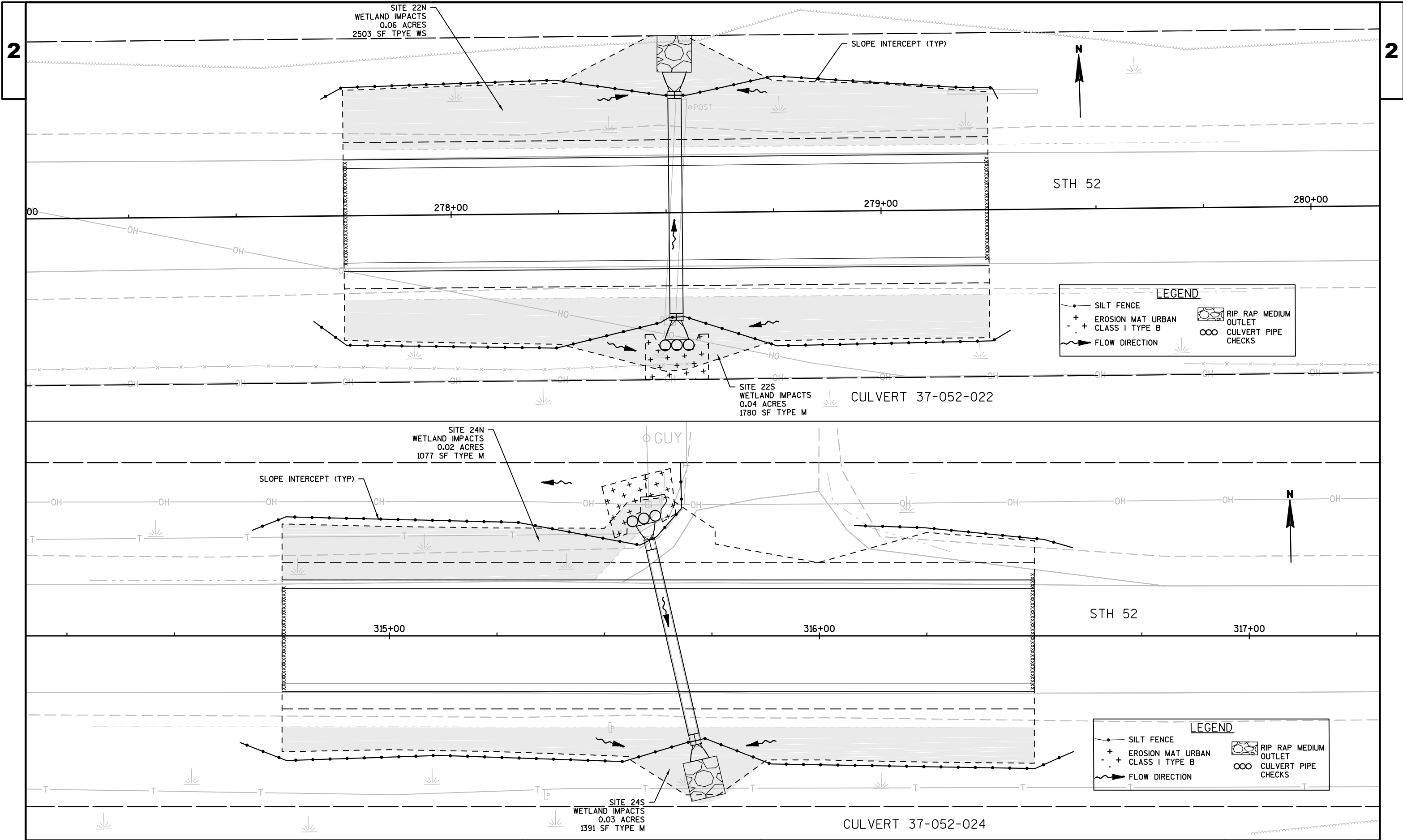
HWY: STH 52

COUNTY: MARATHON

EROSION CONTROL: CULVERTS 37-052-017/018

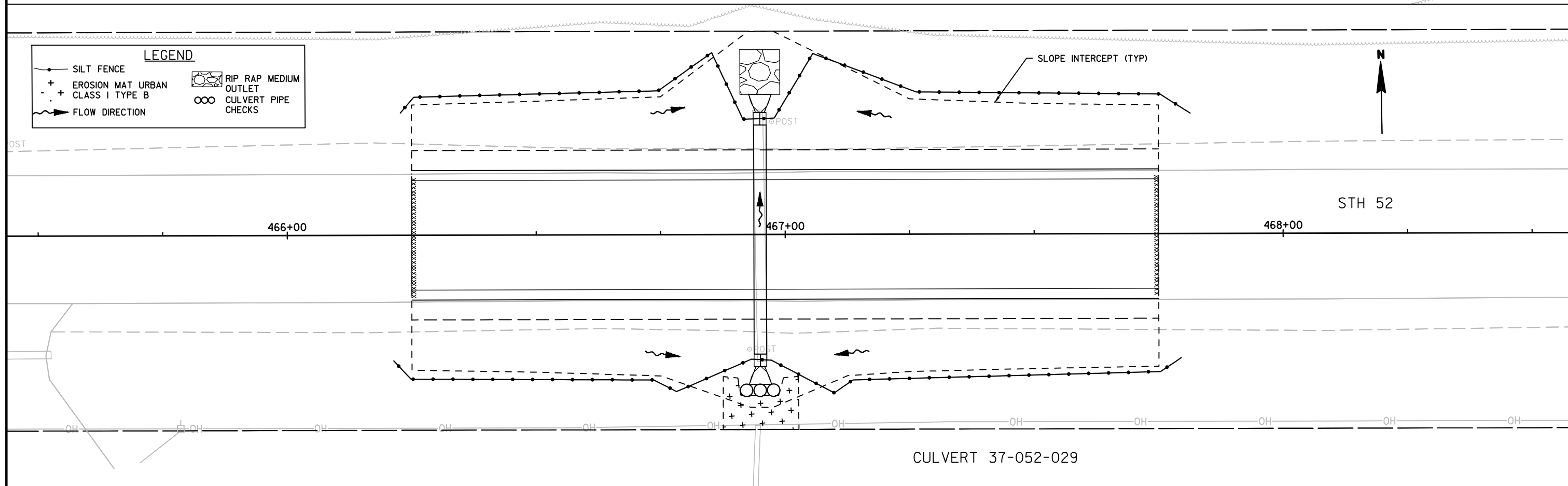
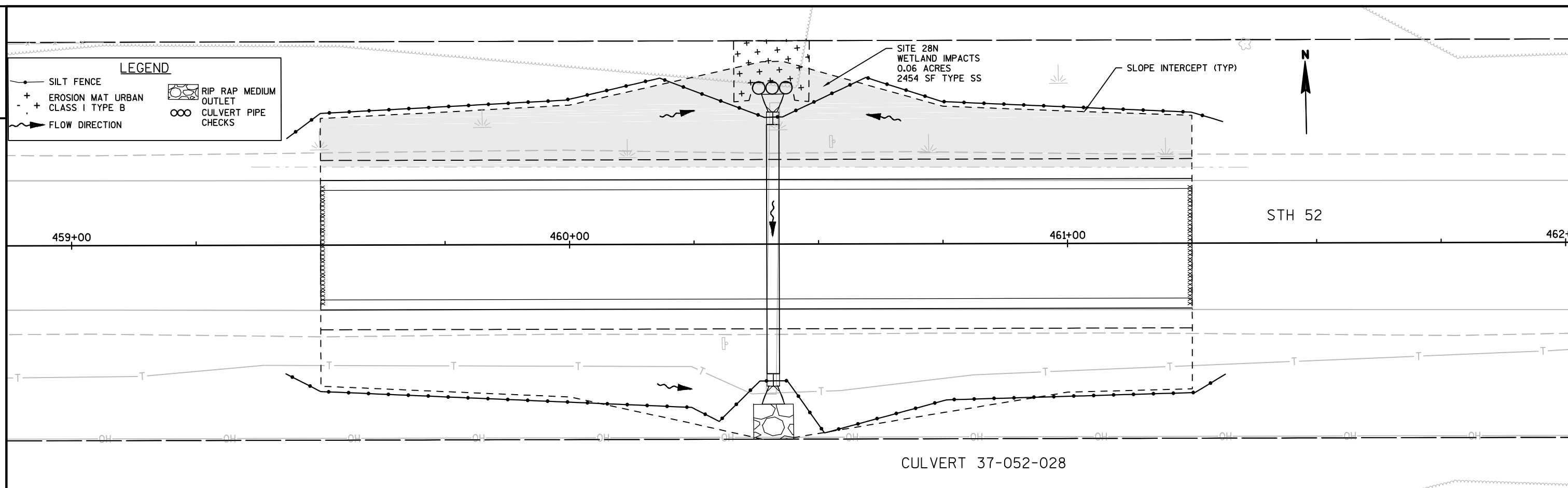
SHEET

E



2

2



PROJECT NO: 9010-03-60	HWY: STH 52	COUNTY: MARATHON	EROSION CONTROL: CULVERT 37-052-028/029	SHEET	E
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FILE NAME : P:\2016\2016.020 - WISDOT - STH 52 CULVERT PIPE REPLACEMENT\90100330\SHEETSP\PLAN\022001-EC.DWG
LAYOUT NAME - ****

PLOT DATE : 2/28/2017 11:22 AM

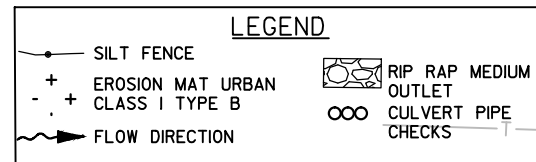
PLOT BY : MATTHEW T. GRAUN

PLOT NAME :

PLOT SCALE : *****

WISDOT/CADDs SHEET 42

2



SITE 30N
WETLAND IMPACTS
0.08 ACRES
3416 SF TYPE SS

SLOPE INTERCEPT (TYP)

524+00

525+00

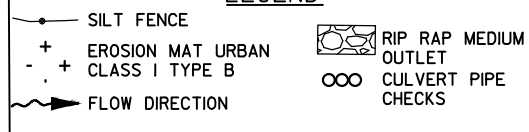
526+00

STH 52

N

CULVERT 37-052-030

SITE 30S
WETLAND IMPACTS
0.04 ACRES
1798 SF TYPE M

LEGEND

POST

POST

SLOPE INTERCEPT (TYP)

605+00

606+00

607+00

STH 52

N

CULVERT 37-052-033

PROJECT NO: 9010-03-60

HWY: STH 52

COUNTY: MARATHON

EROSION CONTROL: CULVERTS 37-052-030/033

SHEET

E

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LAYOUT NAME - ****

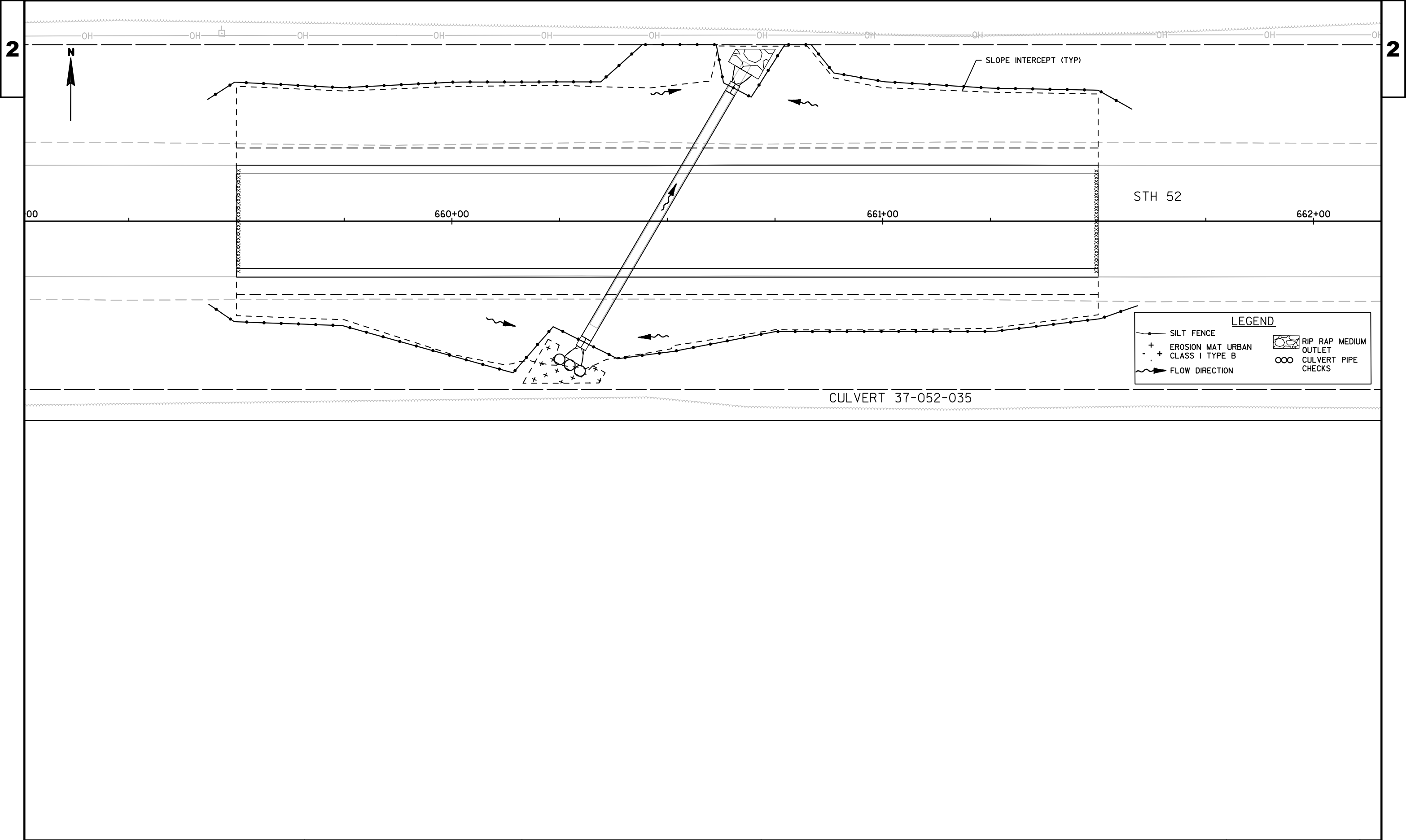
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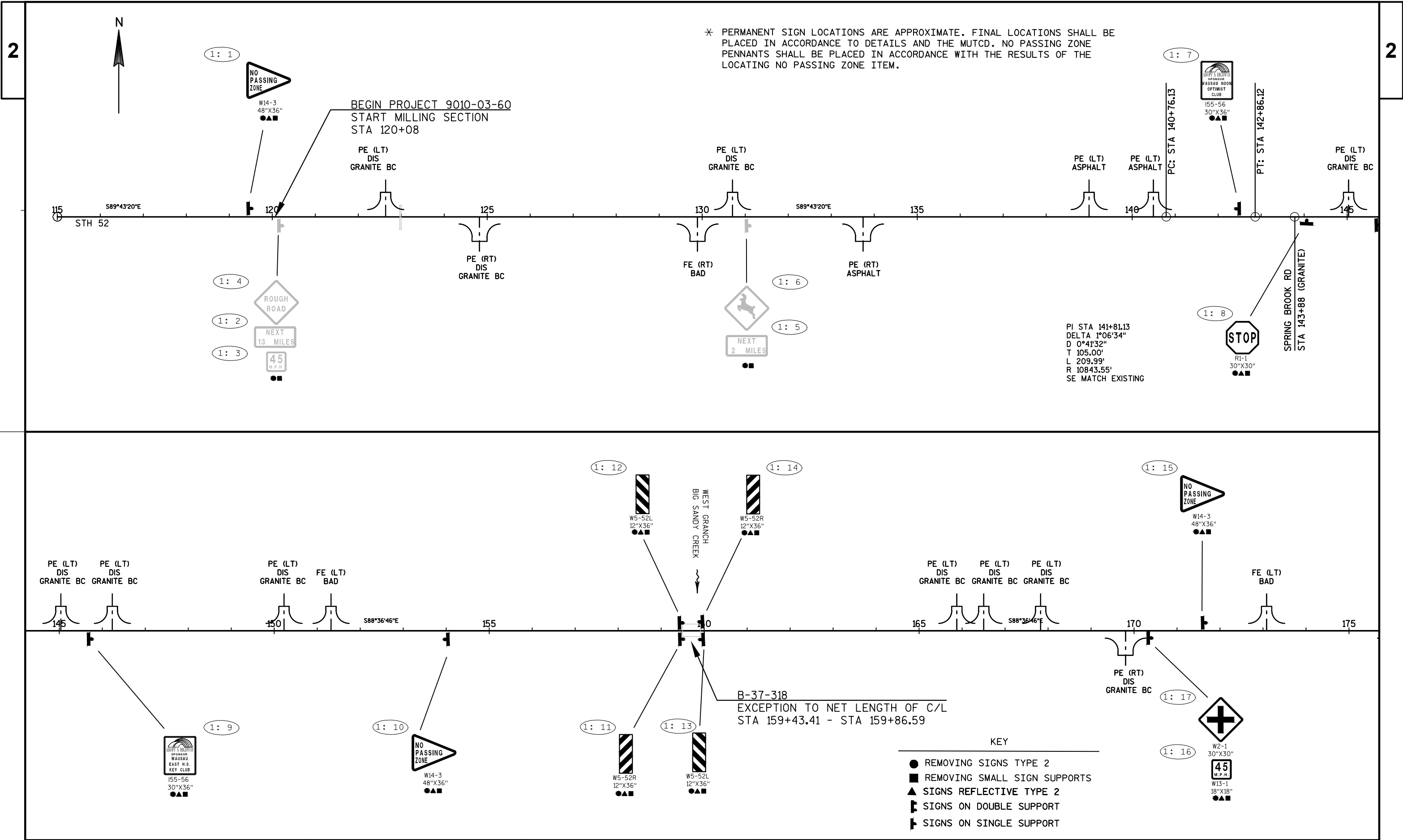
PLOT BY : MATTHEW T. GRAUN

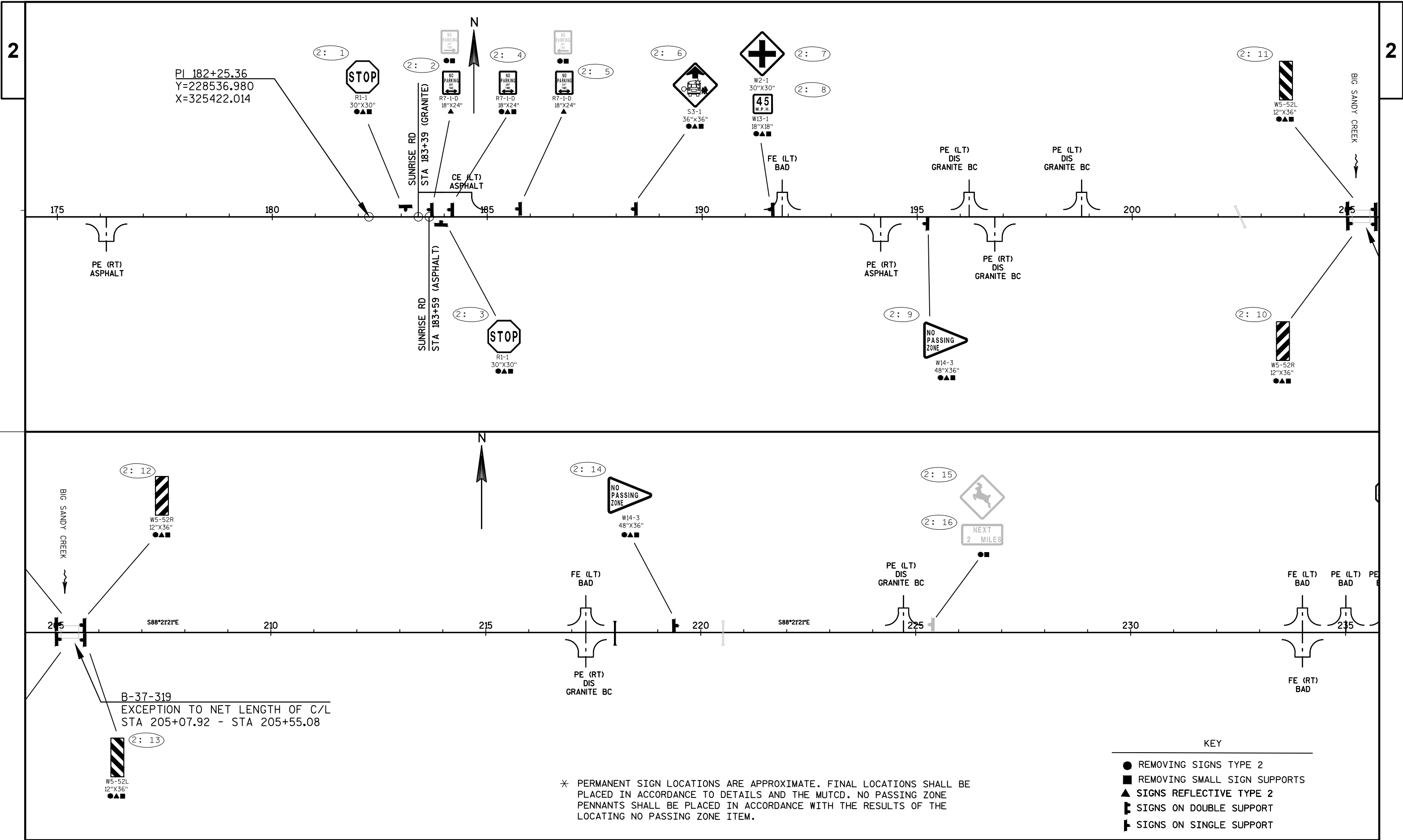
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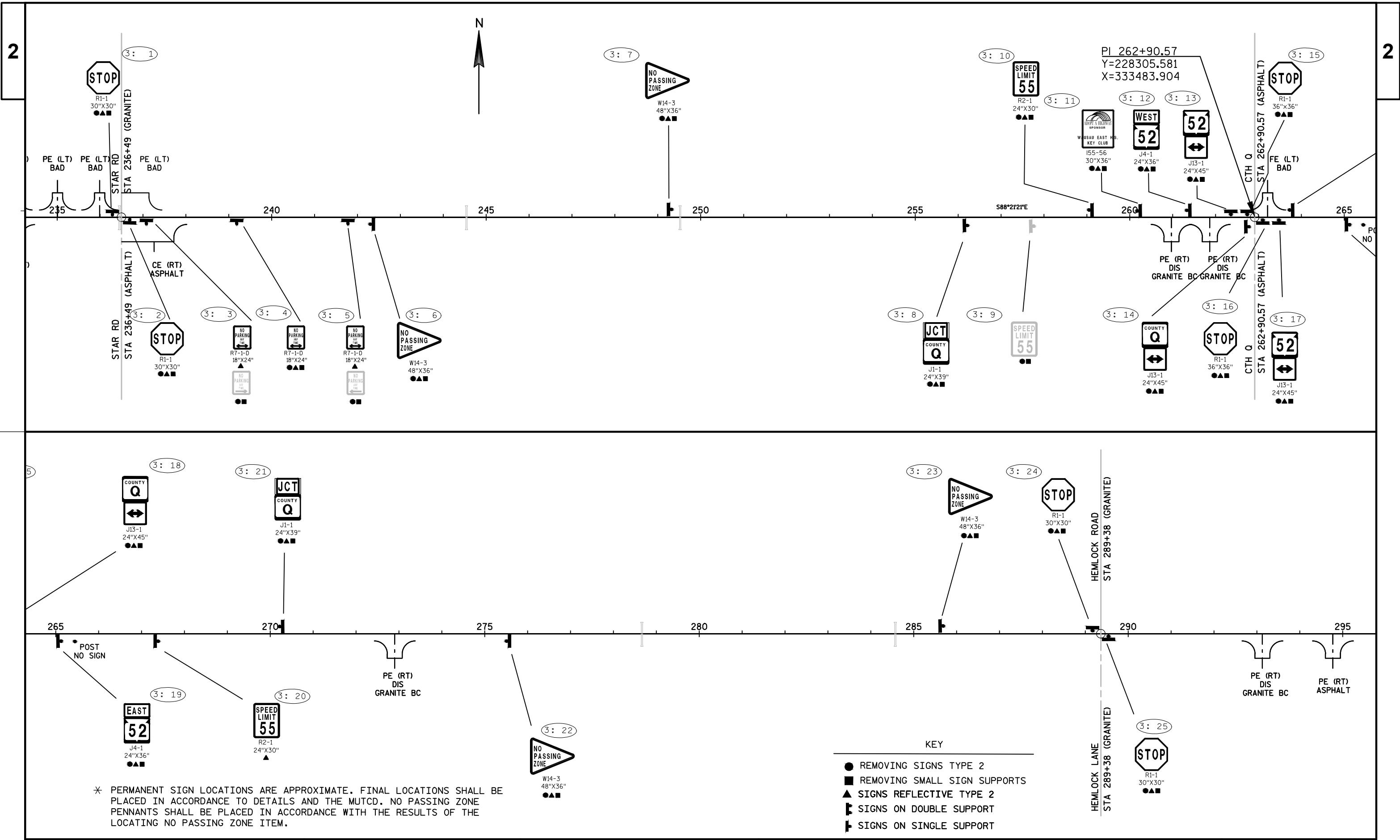
PLOT SCALE : *****

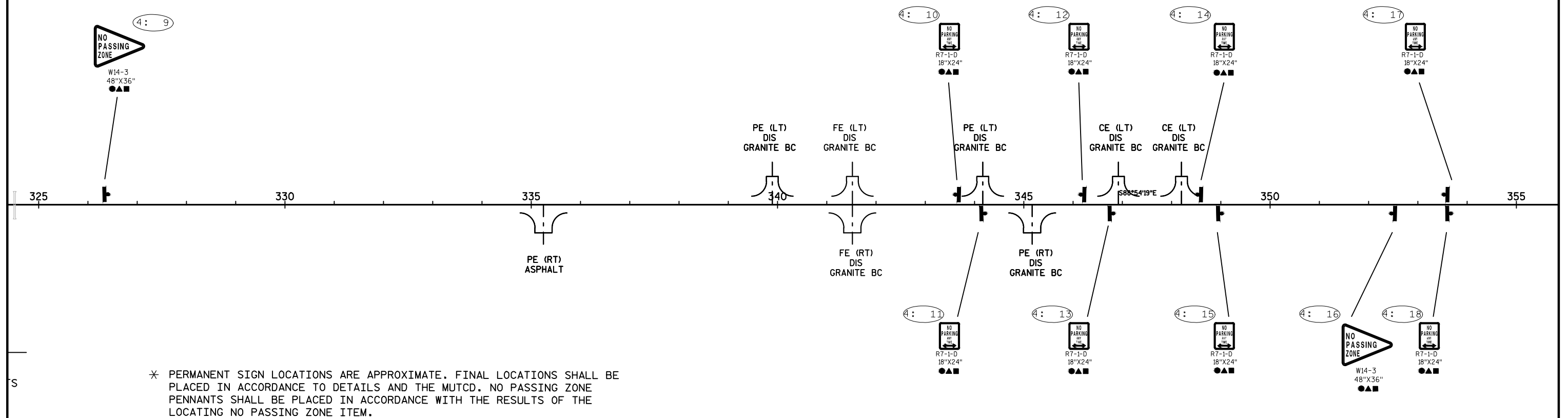
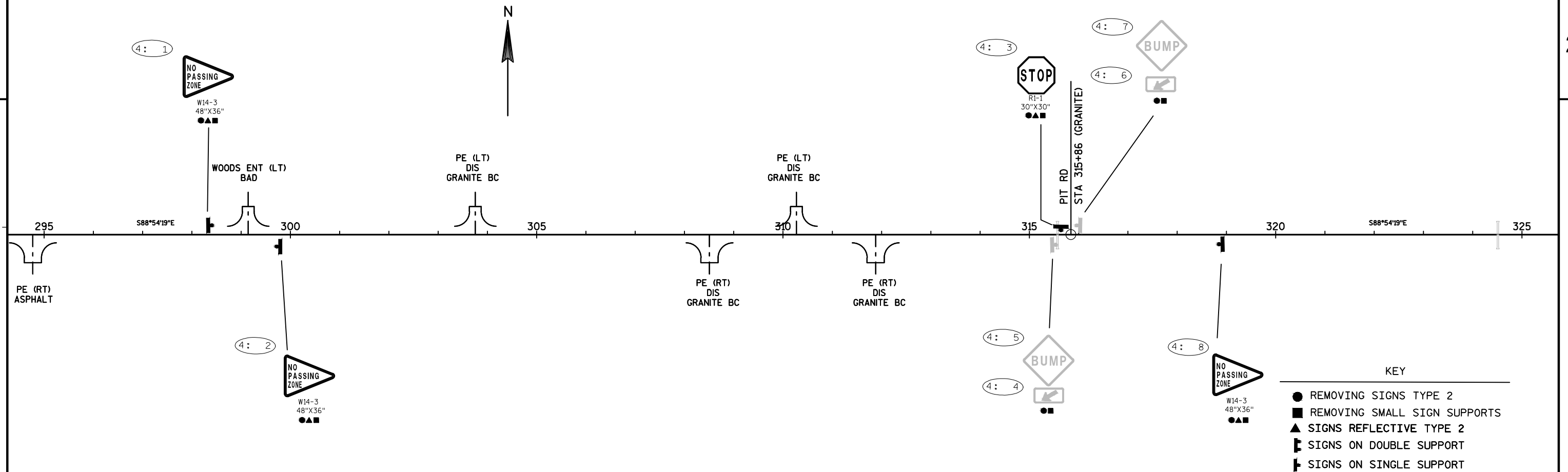
WISDOT/CADDs SHEET 42

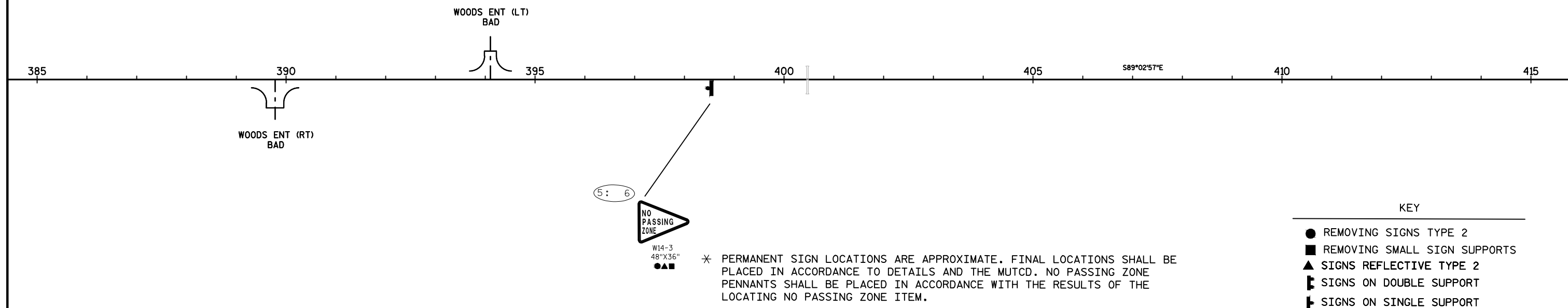
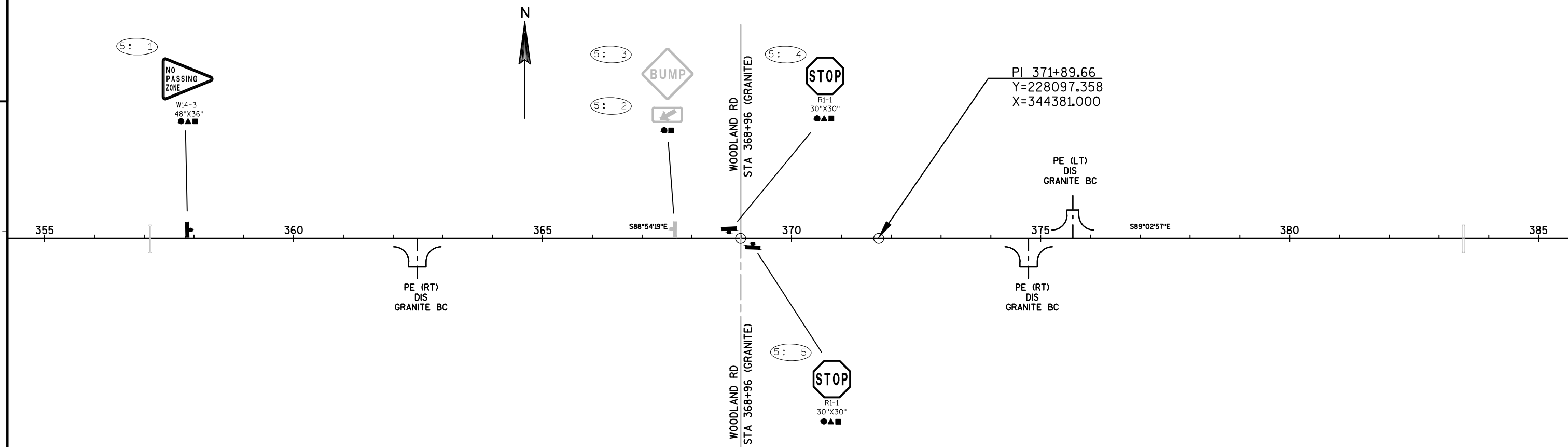


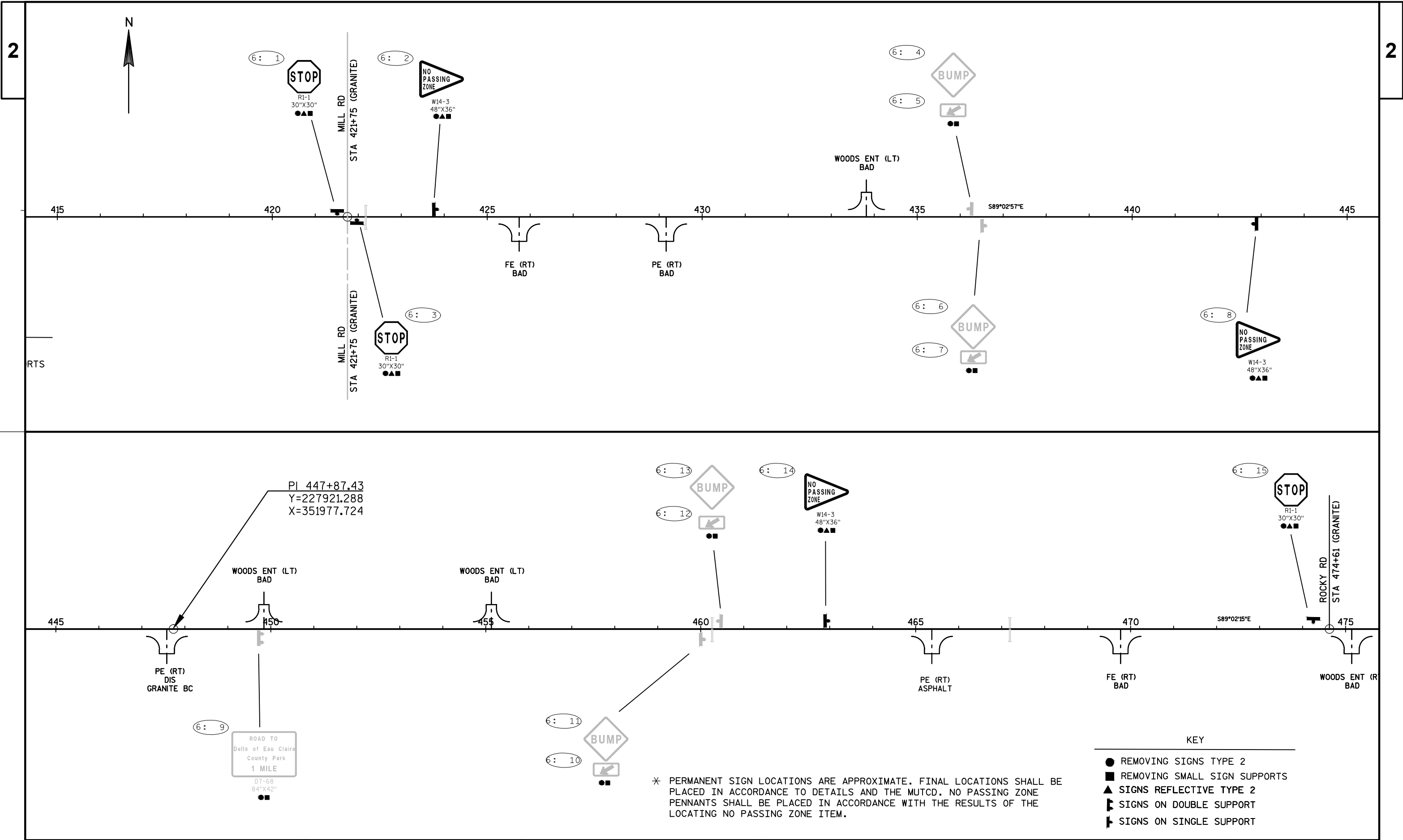


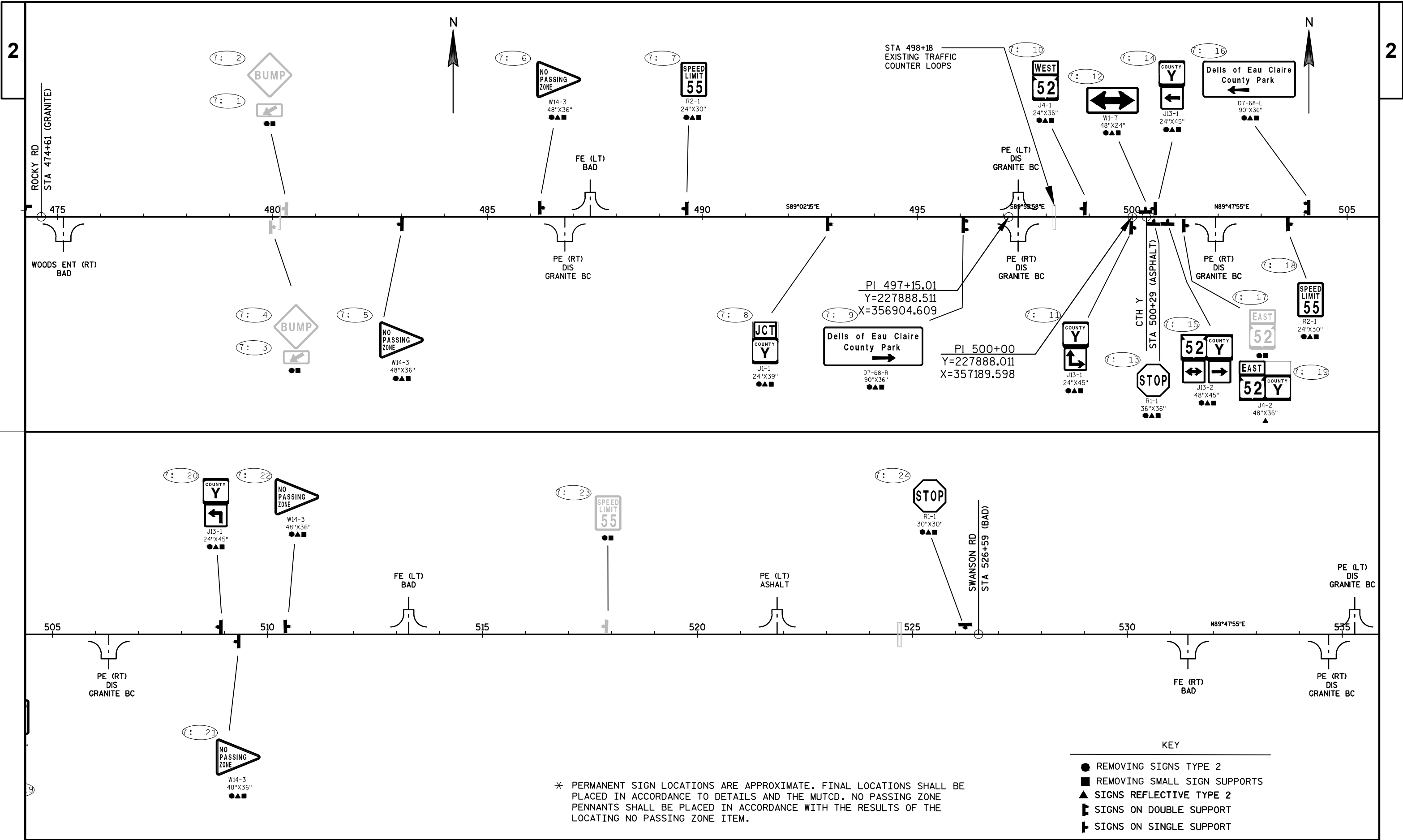


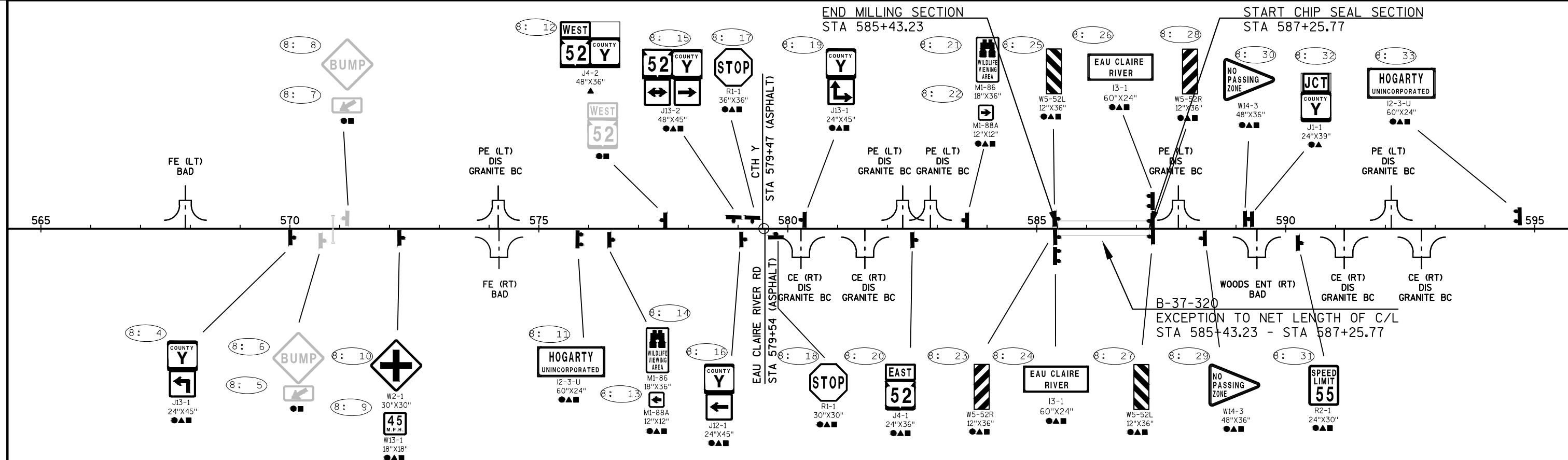
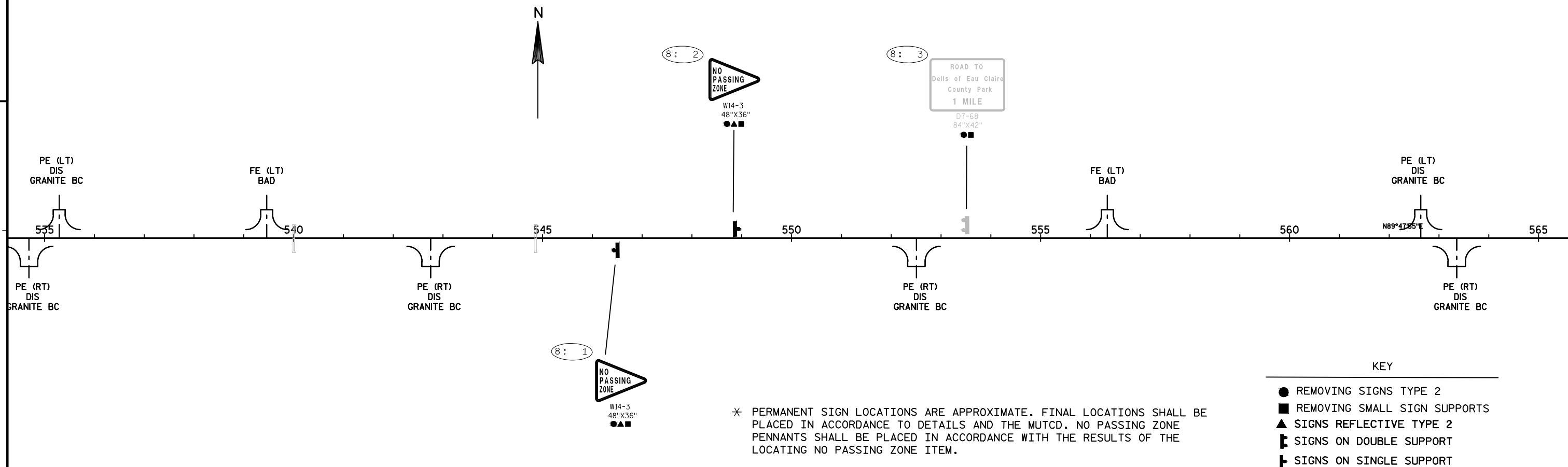


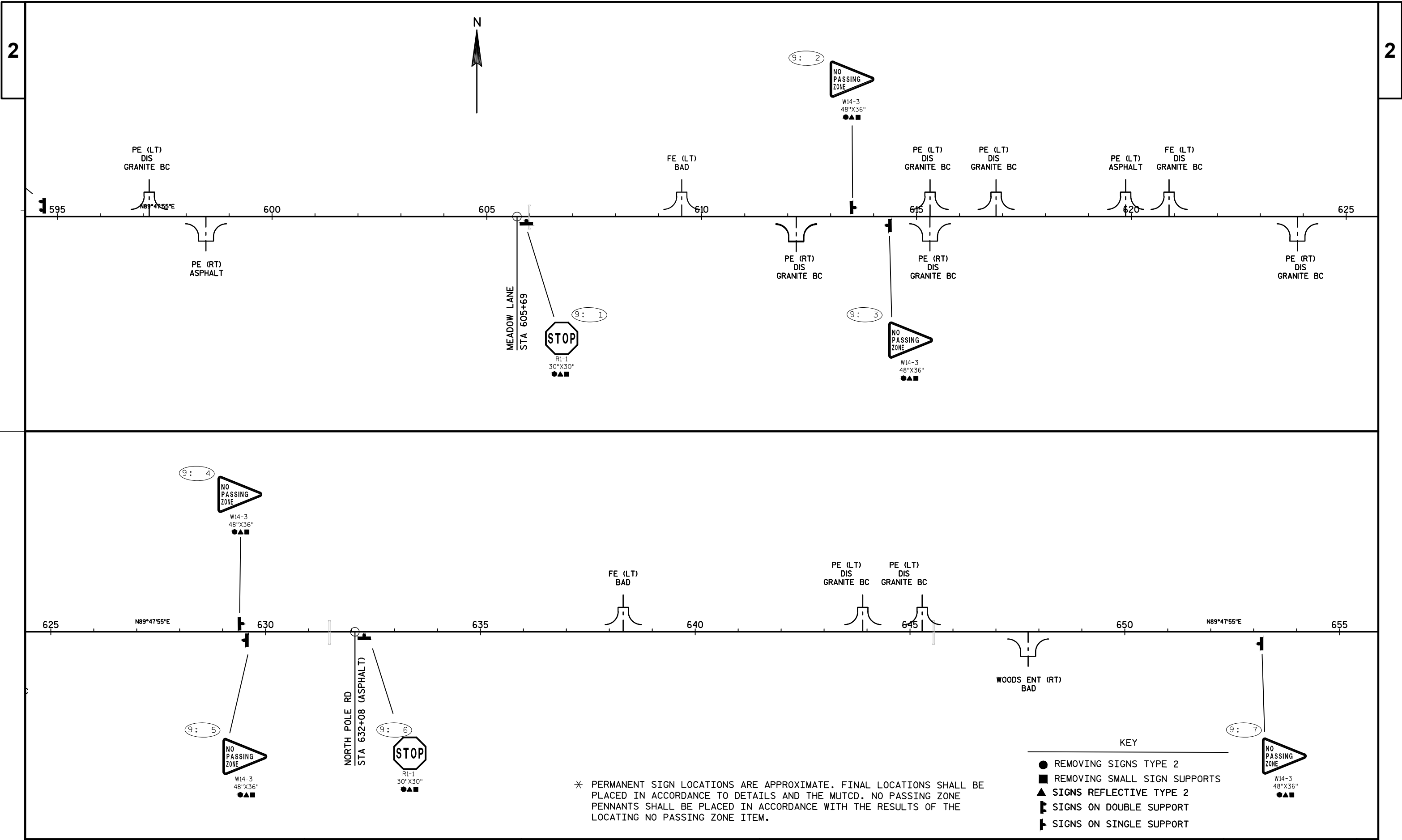


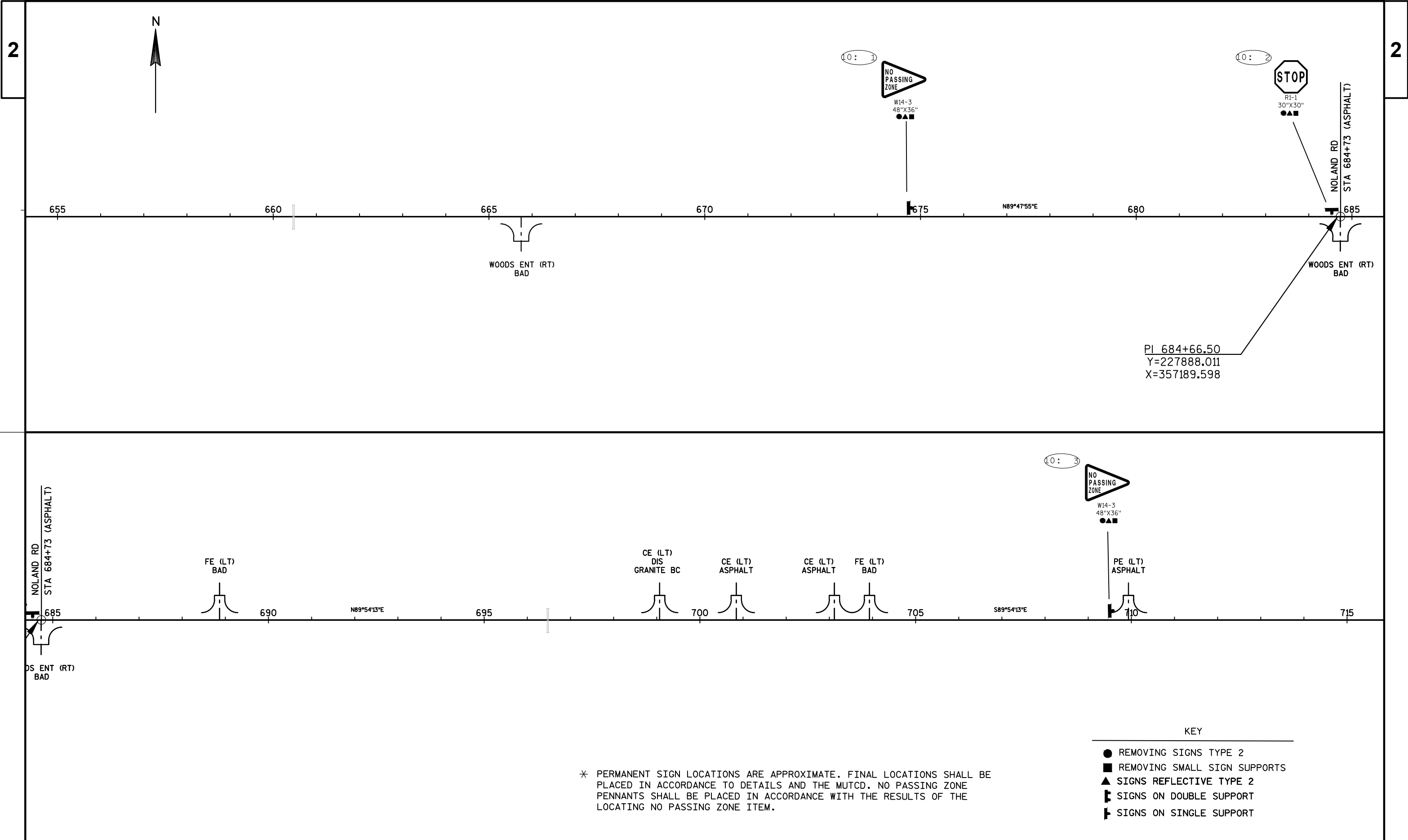


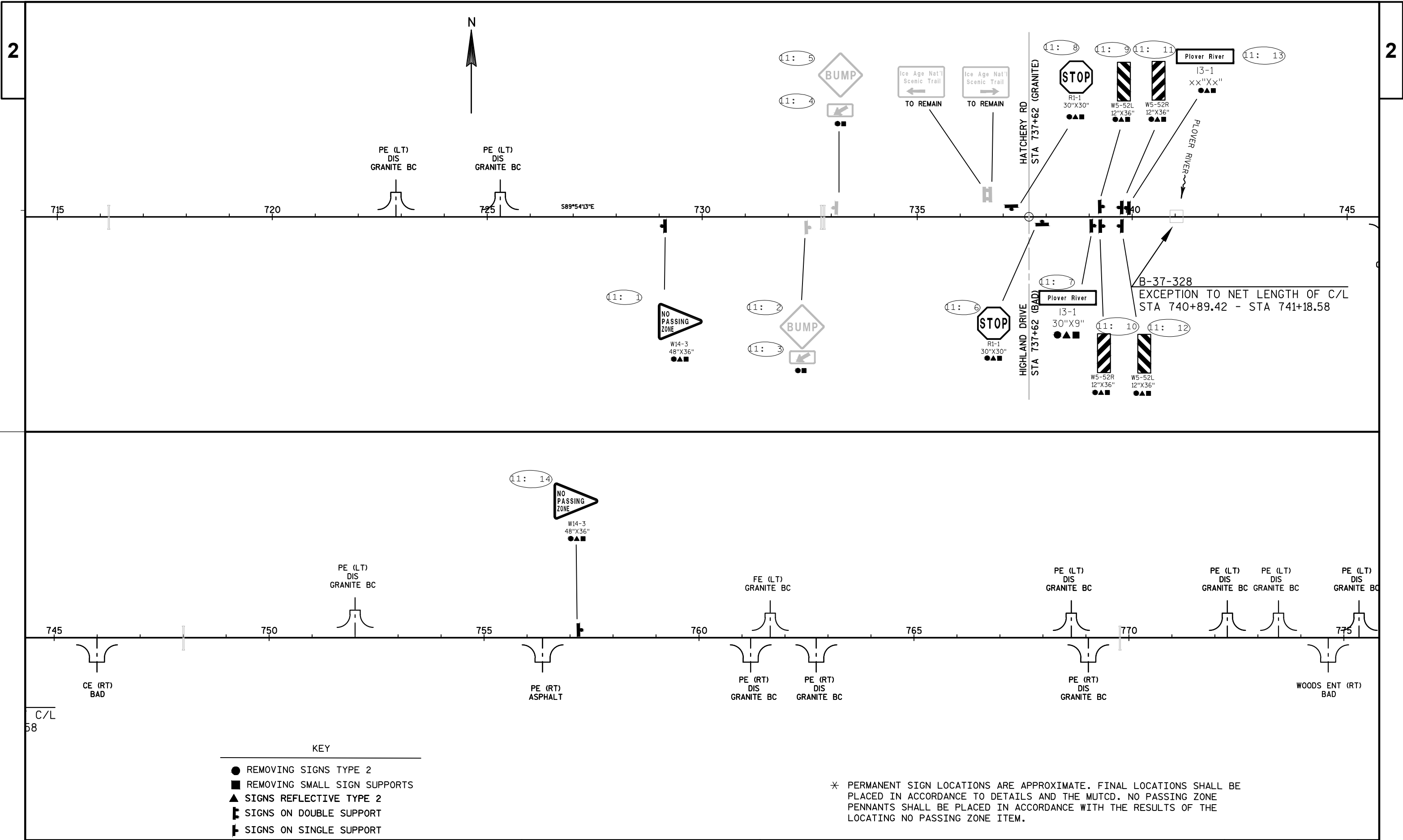


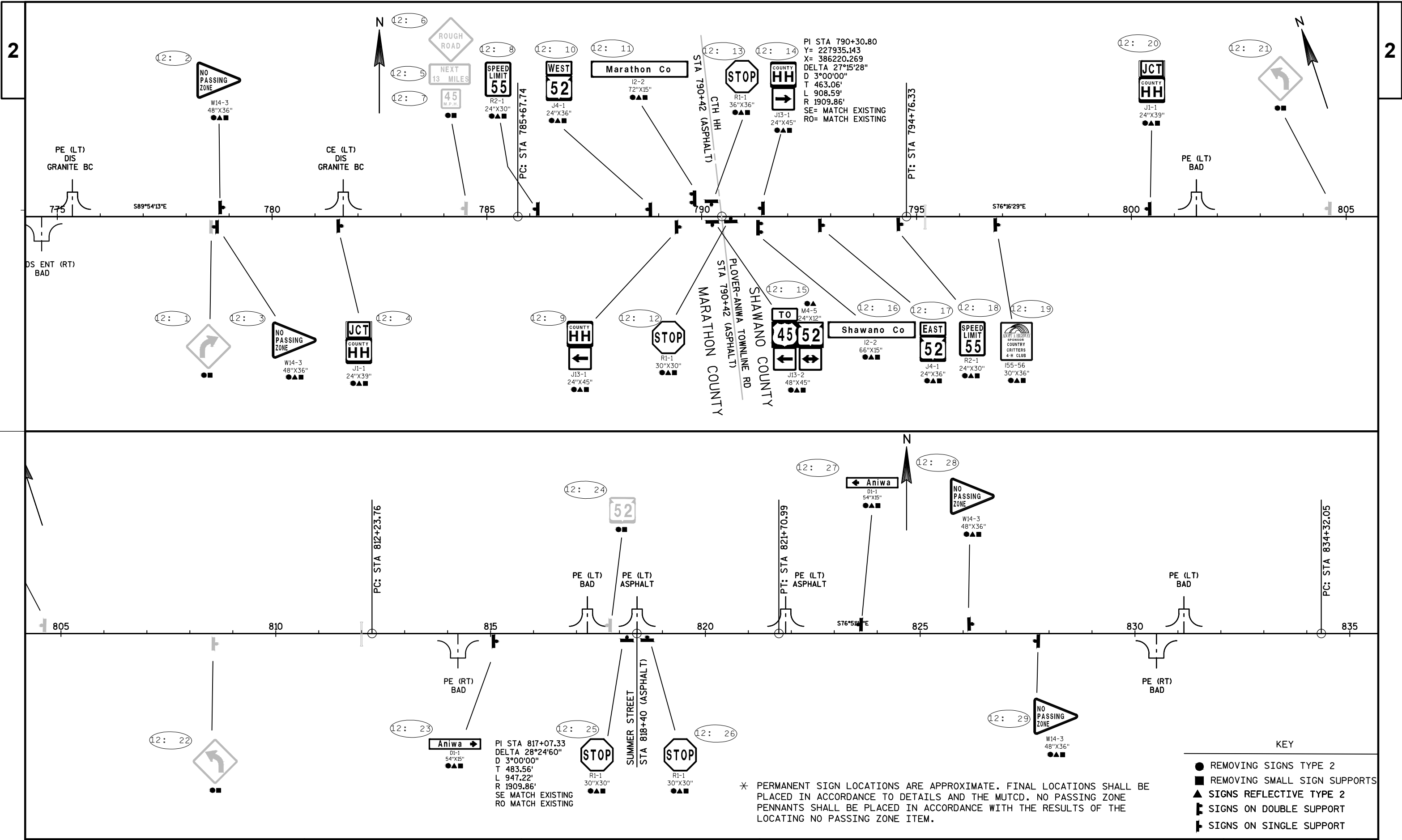


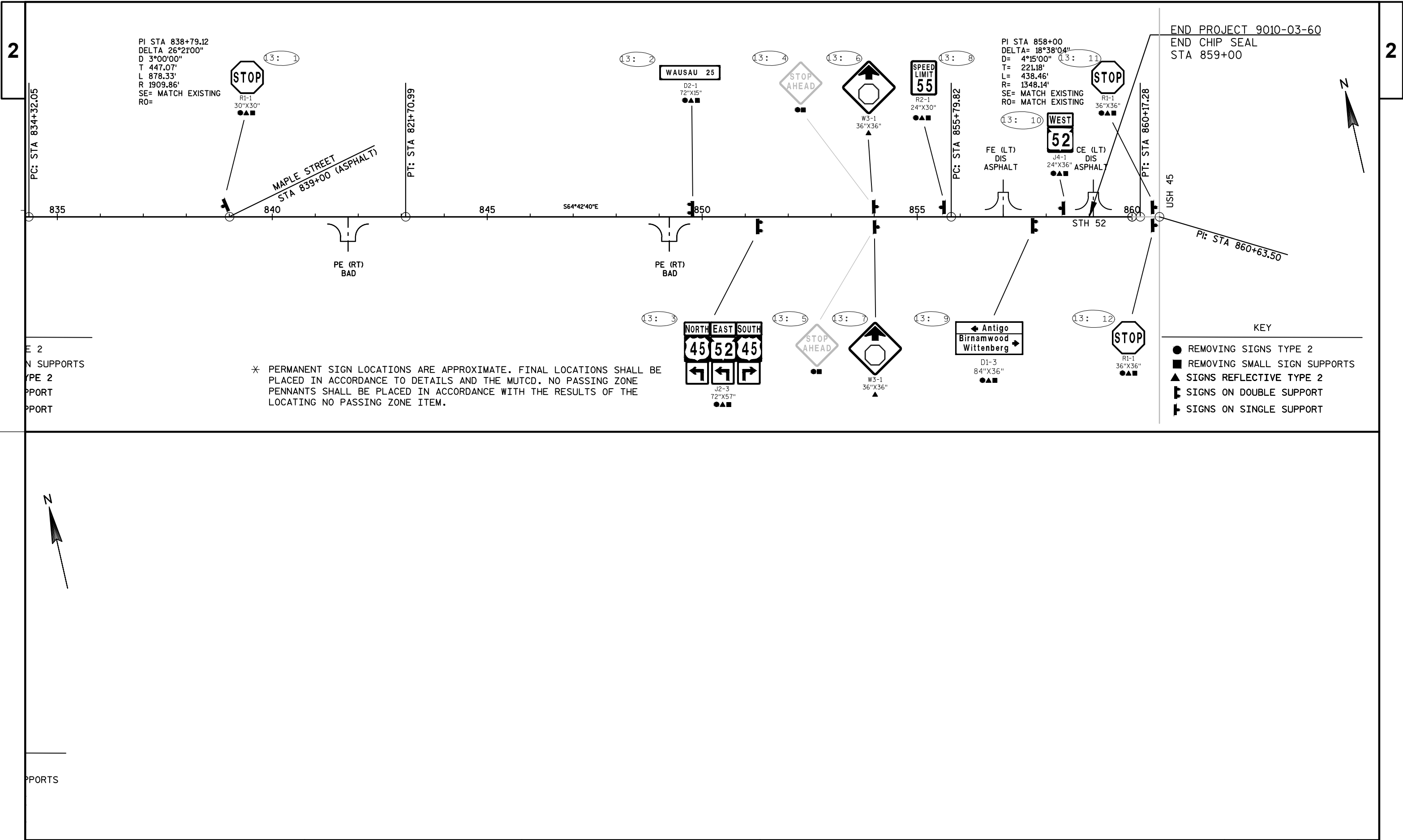


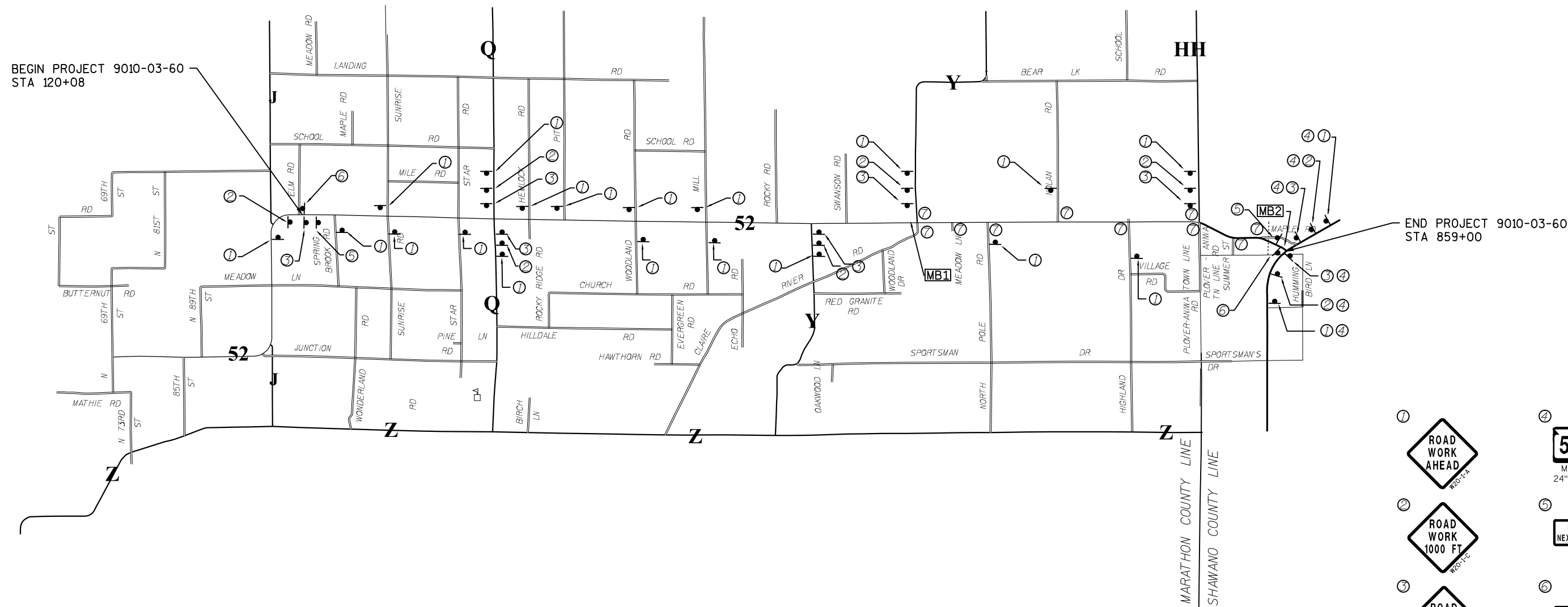






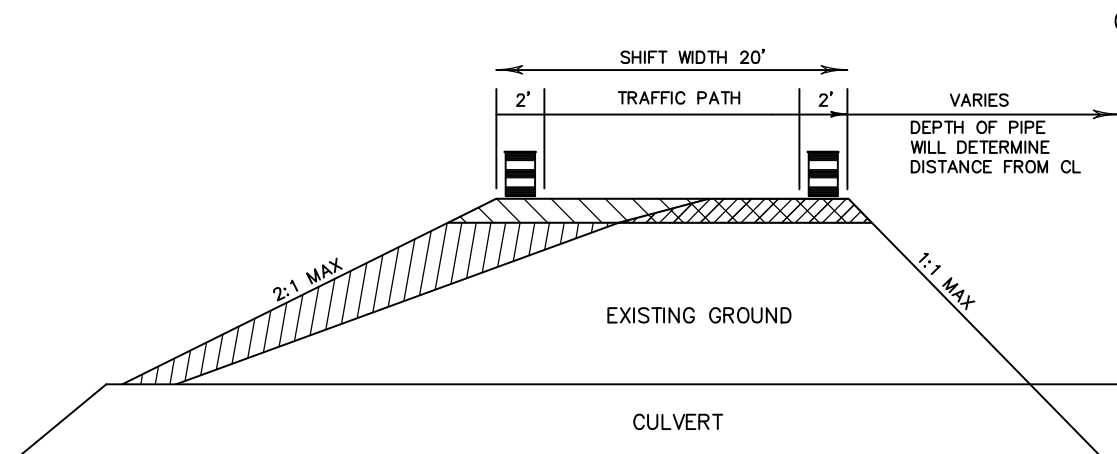
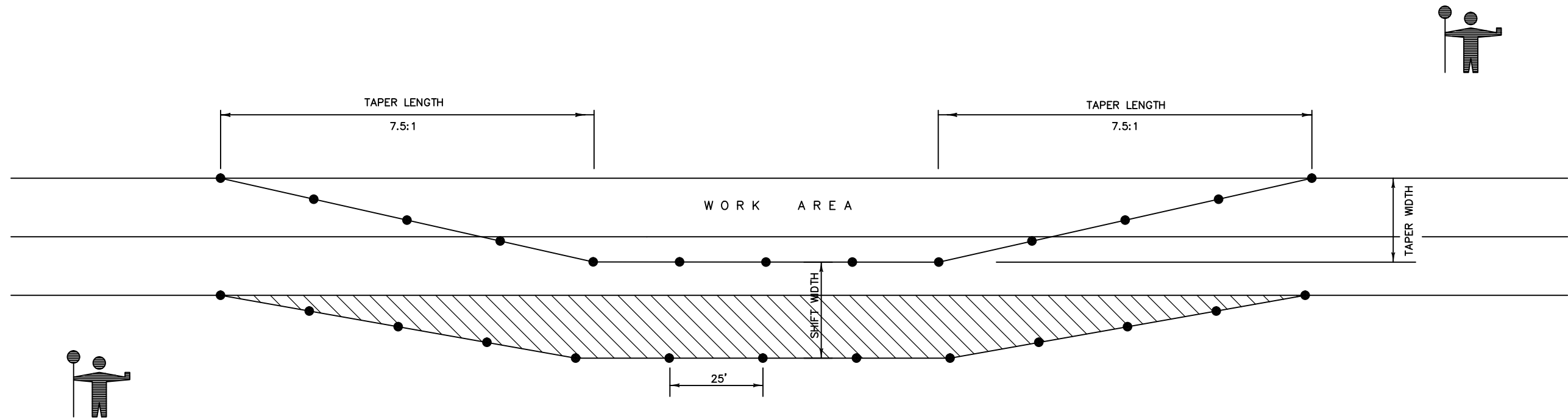






- 1). CONSIDER GEOMETRICS WHEN LOCATING MESSAGE BOARDS SO THE DRIVER HAS CLEAR VIEW OF THE BOARD FOR A MINIMUM OF 1000' IN FRONT OF THE MESSAGE BOARD.
- 2). PLACE MESSAGE BOARDS AS FARAWAY FROM LIVE TRAFFIC LANES AS POSSIBLE WITHOUT HAMPERING VISIBILITY. IN ADVANCE OF HIGHWAY CONSTRUCTION PROJECTS, THE SIGNS SHOULD BE PLACED ON THE BACK SLOPE BEYOND THE DITCH. THE LOCATION SELECTED SHOULD BE AT OR SLIGHTLY ABOVE THE ELEVATION OF THE ROADWAY. FOR INTERMITTENT WORK SUCH AS A LANE CLOSURE OR WHERE SITE CONDITIONS DO NOT ALLOW OTHERWISE, THE SIGNS MAY BE PLACED ON THE SHOULDER. THE SITE SHOULD BE VISITED TO ASSURE VISIBILITY, SAFETY AND MAINTENANCE CONSIDERATIONS. A TAPER OF REFLECTORIZED DRUMS AND BARRICADES SHOULD BE PLACED AHEAD OF THE PCMS PLACED ON A SHOULDER IF IT IS NOT SHIELDED BY A BARRIER.
- 3). DISPLAY THE "PRIOR TO CONSTRUCTION" MESSAGES 10 DAYS PRIOR TO THE EXPECTED START OF THE PROPOSED WORK THAT WILL REQUIRE LANE CLOSURES. ADJUST THE MESSAGE ACCORDINGLY.

- 1). THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITION AS APPROVED BY THE ENGINEER.
 - 2). ANY EXISTING SIGNS THAT CONFLICT WITH THIS WORK MAY BE COVERED OR REMOVED AS APPROVED BY THE ENGINEER. ALL STOP, WARNING AND REGULATORY SIGNS ON THE SIDE ROADS SHALL NOT BE DISTURBED, EXCEPT WHEN NECESSARY TO COMPLETE THE WORK. THE SIGNS MUST BE IMMEDIATELY RE-ESTABLISHED.
 - 3). ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED.
 - 4). ALL TRAFFIC CONTROL SIGNING SHALL CONFIRM TO: PART VI OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND WISCONSIN SUPPLEMENT.
 - 5). TRAFFIC CONTROL FOR THE ACTUAL WORK ZONE SHALL BE INCIDENTAL TO THE WORK BEING PERFORMED. SEE S.D.D. TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING) FOR THE REQUIRED TRAFFIC CONTROL DEVICES.
- ** NOTE: USE OF THESE SIGNS IS OPTIONAL AND TO BE USED AT THE DISCRETION OF THE ENGINEER.



NOTES

1. USE WITH SDD "TRAFFIC CONTROL FOR LANE CLOSURE".
2. FLAGGERS ARE SPECIFIC TO THIS OPERATION.
3. THE TAPER SHOULD EXTEND ACROSS THE SHOULDER UNLESS DOING SO WOULD GREATLY CONFLICT WITH THE WORK OPERATION.
4. ALL LANE CLOSURE SIGNS SHALL BE REMOVED OR COVERED AND ALL DEVICES REMOVED BEYOND THE SHOULDER WHEN WORK IS NOT IN PROGRESS AND THE LANE IS RESTORED TO ORIGINAL CONFIGURATION.
5. CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED AWAY FROM TRAVEL LANE WHEN FLAGGING OPERATIONS ARE NOT IN USE.

LANE SHIFT DETAIL

KEY

- TRAFFIC CONTROL DRUM
- ▨ FILL
- INCIDENTAL TO LANE SHIFT ITEM
- ▩ EXISTING PAVED SURFACE
OR
6" BASE AGGREGATE DENSE 1 1/4-INCH
- INCIDENTAL TO LANE SHIFT ITEM
- ▨ 6" BASE AGGREGATE DENSE 1 1/4-INCH
- INCIDENTAL TO LANE SHIFT ITEM

Estimate Of Quantities

9010-03-60					
Line	Item	Item Description	Unit	Total	Qty
0010	203.0100	Removing Small Pipe Culverts	EACH	10.000	10.000
0020	204.0115	Removing Asphaltic Surface Butt Joints	SY	2,414.000	2,414.000
0030	204.0120	Removing Asphaltic Surface Milling	SY	134,440.000	134,440.000
0040	204.0180	Removing Delineators and Markers	EACH	18.000	18.000
0050	211.0100	Prepare Foundation for Asphaltic Paving (project) 01. 9010-03-60	LS	1.000	1.000
0060	213.0100	Finishing Roadway (project) 01. 9010-03-60	EACH	1.000	1.000
0070	305.0110	Base Aggregate Dense 3/4-Inch	TON	3,351.000	3,351.000
0080	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	2,834.000	2,834.000
0090	305.0500	Shaping Shoulders	STA	930.000	930.000
0100	440.4410	Incentive IRI Ride	DOL	35,200.000	35,200.000
0110	455.0605	Tack Coat	GAL	9,410.000	9,410.000
0120	460.2000	Incentive Density HMA Pavement	DOL	10,815.000	10,815.000
0130	460.5223	HMA Pavement 3 LT 58-28 S	TON	16,895.000	16,895.000
0140	465.0105	Asphaltic Surface	TON	1,000.000	1,000.000
0150	465.0110	Asphaltic Surface Patching	TON	200.000	200.000
0160	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	200.000	200.000
0170	522.0324	Culvert Pipe Reinforced Concrete Class IV 24-Inch	LF	336.000	336.000
0180	522.0330	Culvert Pipe Reinforced Concrete Class IV 30-Inch	LF	50.000	50.000
0190	522.0348	Culvert Pipe Reinforced Concrete Class IV 48-Inch	LF	50.000	50.000
0200	522.1024	Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	EACH	14.000	14.000
0210	522.1030	Apron Endwalls for Culvert Pipe Reinforced Concrete 30-Inch	EACH	2.000	2.000
0220	522.1048	Apron Endwalls for Culvert Pipe Reinforced Concrete 48-Inch	EACH	2.000	2.000
0230	606.0200	Riprap Medium	CY	38.000	38.000
0240	618.0100	Maintenance And Repair of Haul Roads (project) 01. 9010-03-60	EACH	1.000	1.000
0250	619.1000	Mobilization	EACH	1.000	1.000
0260	624.0100	Water	MGAL	64.000	64.000
0270	625.0100	Topsoil	SY	4,159.000	4,159.000
0280	627.0200	Mulching	SY	5,159.000	5,159.000
0290	628.1504	Silt Fence	LF	3,417.000	3,417.000
0300	628.1520	Silt Fence Maintenance	LF	835.000	835.000
0310	628.1905	Mobilizations Erosion Control	EACH	5.000	5.000
0320	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000
0330	628.2008	Erosion Mat Urban Class I Type B	SY	350.000	350.000
0340	628.7504	Temporary Ditch Checks	LF	600.000	600.000
0350	628.7555	Culvert Pipe Checks	EACH	39.000	39.000
0360	628.7570	Rock Bags	EACH	50.000	50.000

Estimate Of Quantities

9010-03-60

Line	Item	Item Description	Unit	Total	Qty
0370	629.0210	Fertilizer Type B	CWT	4.000	4.000
0380	630.0130	Seeding Mixture No. 30	LB	200.000	200.000
0390	633.5200	Markers Culvert End	EACH	50.000	50.000
0400	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	180.000	180.000
0410	637.2210	Signs Type II Reflective H	SF	503.260	503.260
0420	637.2230	Signs Type II Reflective F	SF	567.140	567.140
0430	638.2602	Removing Signs Type II	EACH	220.000	220.000
0440	638.3000	Removing Small Sign Supports	EACH	203.000	203.000
0450	642.5201	Field Office Type C	EACH	1.000	1.000
0460	643.0100	Traffic Control (project) 01. 9010-03-60	EACH	1.000	1.000
0470	643.0300	Traffic Control Drums	DAY	1,310.000	1,310.000
0480	643.0310.S	Temporary Portable Rumble Strips	LS	1.000	1.000
0490	643.0900	Traffic Control Signs	DAY	1,845.000	1,845.000
0500	643.1050	Traffic Control Signs PCMS	DAY	90.000	90.000
0510	645.0120	Geotextile Type HR	SY	69.000	69.000
0520	646.0106	Pavement Marking Epoxy 4-Inch	LF	93,978.000	93,978.000
0530	646.0406	Pavement Marking Same Day Epoxy 4-Inch	LF	44,568.000	44,568.000
0540	646.2304.S	Pavement Marking Grooved Wet Reflective Epoxy 4-Inch	LF	93,000.000	93,000.000
0550	648.0100	Locating No-Passing Zones	MI	14.000	14.000
0560	649.0402	Temporary Pavement Marking Paint 4-Inch	LF	75,556.000	75,556.000
0570	649.2102	Temporary Raised Pavement Markers Type II	EACH	4,505.000	4,505.000
0580	650.6000	Construction Staking Pipe Culverts	EACH	9.000	9.000
0590	650.8000	Construction Staking Resurfacing Reference	LF	73,900.000	73,900.000
0600	650.9920	Construction Staking Slope Stakes	LF	3,000.000	3,000.000
0610	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	1,200.000	1,200.000
0620	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	600.000	600.000
0630	SPV.0060	Special 01. Lane Shift	EACH	9.000	9.000
0640	SPV.0060	Special 02. Culvert Pipe Transitions	EACH	12.000	12.000
0650	SPV.0090	Special 01. Heavy Duty Silt Fence	LF	50.000	50.000
0660	SPV.0090	Special 02. Ditch Cleaning	LF	1,100.000	1,100.000
0670	SPV.0105	Special 01. Temporary Pumping, Pipe 37-052-030	LS	1.000	1.000
0680	SPV.0125	Special 01. Prepare Pavement for Seal Coat	MI	5.140	5.140
0690	SPV.0180	Special 01. Seal Coat	SY	78,505.000	78,505.000

STATION - STATION	MILLING	211.0100 PREPARE FOUNDATION FOR ASPHALT PAVING	204.0115 REMOVING ASPHALTIC SURFACE MILLING BUTT JOINTS	204.0120 REMOVING ASPHALTIC SURFACE MILLING	NOTES
	LS	SY	SY	SY	
120+00 - 585+00	1			82,670	16' (8' EACH SIDE OF CENTERLINE OUTSIDE 5' FROM 1.75" TO 4.25" DEPTH ON LEFT AND RIGHT UNDISTRIBUTED FOR CHIP SEAL PAVEMENT REPAIRS
120+00 - 585+00				51,670	
587+25 - 859+00				100	
120+00 & 859+00			144		
159+43 - 159+43			400		25'
159+86 - 160+86			400		100'
584+43 - 585+43			400		100'
587+26 - 588+26			400		100'
SIDE ROADS			590		
PE'S & CE'S			80		
TOTAL	1	2414		134,440	

CULVERT PIPE ITEMS

LOCATION	203.0100 REMOVING SMALL PIPE CULVERTS	204.0180 REMOVING DELINEATORS AND MARKERS	522.0324 CULVERT PIPE RCCP CLASS IV 24 INCH LF	522.033 CULVERT PIPE RCCP CLASS IV 30 INCH LF	522.0348 CULVERT PIPE REINFORCED CONCRETE 48 INCH LF	522.1024 APRON ENDWALLS FOR RCCP 24 INCH EACH	522.1030 APRON ENDWALLS FOR RCCP 30 INCH EACH	522.1048 APRON ENDWALLS FOR RCCP 48 INCH EACH	SPV.0060.01 CULVERT PIPE TRANSITIONS EACH	SPV.0060.02 LANE SHIFT EACH	JOINT TIES (**)
218+00	1	2	44			2			1	1	18
225+45	1	2	44			2			1	1	16
278+67	1	2		50			2		1	1	16
315+60	1		44			2				1	
383+50									1		18
400+50									1		
460+16	1	2	50			2			1	1	
467+16	1	2	46			2			1	1	24
480+15									1		
524+90	2	4			50			2	1	1	36
606+00	1	2	42			2			1	1	16
660+50	1	2	66			2			1	1	22
732+84									1		
TOTAL	10	18	336	50	50	14	2	2	12	9	166

SEE PLAN AND PROFILE SHEETS FOR REMOVAL LENGTHS (**) FOR INFORMATIONAL PURPOSES ONLY

BASE AGGREGATE DENSE

				305.0110	305.0120	624.0100	305.0500
				3/4-INCH	1 1/4-INCH	WATER	SHAPING SHOULDERS
CULVERT	STATION	TO	STATION	TON	TON	MGAL	STATION
C 37-52-017	217+25	-	218+75	35	283	6	
C 37-52-018	219+50	-	221+00	35	283	6	
C 37-52-022	277+75	-	279+25	35	283	6	
C 37-52-024	314+75	-	316+50	41	331	7	
C 37-52-028	459+50	-	461+25	41	331	7	
C 37-52-029	466+25	-	467+75	35	283	6	
C 37-52-030	524+25	-	526+00	41	331	7	
C 37-52-033	605+25	-	607+00	41	331	7	
C 37-52-035	659+50	-	661+50	47	378	9	
PROJECT	120+00	-	585+45	3000			930
TOTALS				3,351	2,834	64	930

PAVING

				460.5223	455.0605	465.0120	465.0105
				HMA	TACK	ASPHALTIC	ASPHALTIC
				PAVEMENT	COAT	SURFACE	SURFACE
				3LT 58-28S		DRIVEWAYS AND FIELD ENT	
STATION - STATION				TON	GAL	TON	
120+00 - 585+00				16,895	9,410	200	
CULVERT PIPES							1000
TOTAL				16895	9,410	200	1000

SURFACE PATCHING

				465.0110	
				ASPHALTIC	
				SURFACE PATCHING	
STATION - STATION	LOCATION	(TON)	NOTES		
587+25 - 859+00	Project	200	1.75" DEPTH OF PATCH		
TOTAL		200			

EROSION CONTROL AND LANDSCAPING ITEMS

		606.0200	625.0100	627.0200	628.1504	628.1520	628.2008	628.7504	628.7555	628.7570	629.0210	630.0130	SPV.0090.01	645.0120
		RIPRAP	TOPSOIL	MULCHING	SILT FENCE	SILT FENCE	EROSION MAT	TEMPORARY	CULVERT	ROCK	FERTILIZER	SEEDING	SILT FENCE	GEOTEXTILE
		MEDIUM				MAINTENANCE	URBAN CLASS I	DITCH CHECKS	PIPE CHECKS	BAGS	TYPE B	MIXTURE NO. 30	HEAVY DUTY	FABRIC
							TYPE B							TYPE HR
LOCATION	PIPE SIZE	CY	SY	SY	LF	LF	SY	LF	EACH	EACH	CWT	LB	LF	SY
37-52-017	24-INCH	4	325	325	297	25	15	-	3	-	0.2	6		7
37-52-018	24-INCH	4	381	381	329	30	15	-	3	-	0.2	7		7
37-52-022	30-INCH	4	491	491	328	30	20	-	5	-	0.3	9		8
37-52-024	24-INCH	4	391	391	363	35	15	-	3	-	0.2	7		7
37-52-028	24-INCH	4	525	525	395	40	15	-	3	-	0.3	9		7
37-52-029	24-INCH	4	400	400	346	35	15	-	3	-	0.3	7		7
37-52-030	48-INCH	6	631	631	-		25	-	10	-	0.4	11		12
37-52-033	24-INCH	4	430	430	395	40	15	-	3	-	0.3	8		7
37-52-035	24-INCH	4	585	585	464	50	15	-	3	-	0.4	11		7
421+00 - 430+00	-			1000	500	50		300	3		1	25		
UNDISTRIBUTED	-	-	-	-	-	500	200	300	-	50	0.4	100	50	-
TOTALS		38	4159	5159	3417	835	350	600	39	50	4	200	50	69

MARKER POSTS 633.5200 MARKERS CULVERT END <table><tr><th>LOCATION</th><th>EACH</th></tr><tr><td>122+95</td><td>2</td></tr><tr><td>202+50</td><td>2</td></tr><tr><td>218+00</td><td>2</td></tr><tr><td>284+65</td><td>2</td></tr><tr><td>315+65</td><td>2</td></tr><tr><td>324+50</td><td>2</td></tr><tr><td>357+16</td><td>2</td></tr><tr><td>422+20</td><td>2</td></tr><tr><td>460+16</td><td>2</td></tr><tr><td>524+90</td><td>2</td></tr><tr><td>540+00</td><td>2</td></tr><tr><td>540+95</td><td>2</td></tr><tr><td>570+95</td><td>2</td></tr><tr><td>606+00</td><td>2</td></tr><tr><td>631+48</td><td>2</td></tr><tr><td>645+60</td><td>2</td></tr><tr><td>660+50</td><td>2</td></tr><tr><td>696+51</td><td>2</td></tr><tr><td>716+20</td><td>2</td></tr><tr><td>732+84</td><td>2</td></tr><tr><td>746+50</td><td>2</td></tr><tr><td>769+50</td><td>2</td></tr><tr><td>769+72</td><td>2</td></tr><tr><td>795+15</td><td>2</td></tr><tr><td>812+00</td><td>2</td></tr><tr><td>TOTAL</td><td>50</td></tr></table>		LOCATION	EACH	122+95	2	202+50	2	218+00	2	284+65	2	315+65	2	324+50	2	357+16	2	422+20	2	460+16	2	524+90	2	540+00	2	540+95	2	570+95	2	606+00	2	631+48	2	645+60	2	660+50	2	696+51	2	716+20	2	732+84	2	746+50	2	769+50	2	769+72	2	795+15	2	812+00	2	TOTAL	50	TRAFFIC CONTROL 643.0900 TRAFFIC CONTROL SIGNS DAYS 643.1050 PORTABLE CHANGEABLE MESSAGE BOARDS DAYS 643.0300 TRAFFIC CONTROL DRUMS DAYS <table><tr><th>PROJECT</th><th>LOCATION</th><th>DAYS</th><th>DAYS</th><th>DAYS</th></tr><tr><td>PROJECT</td><td></td><td>1,845</td><td>90</td><td>60</td></tr><tr><td>CULVERT PIPE REPLACEMENTS</td><td></td><td></td><td></td><td>1250</td></tr><tr><td></td><td>-</td><td></td><td></td><td></td></tr><tr><td></td><td>TOTAL</td><td>1,845</td><td>90</td><td>1,310</td></tr></table>				PROJECT	LOCATION	DAYS	DAYS	DAYS	PROJECT		1,845	90	60	CULVERT PIPE REPLACEMENTS				1250		-					TOTAL	1,845	90	1,310	LOCATE NO-PASSING ZONES 648.0100 LOCATING NO PASSING ZONES MI <table><tr><th>STA</th><th>TO</th><th>STA</th><th>LOCATION</th><th>MI</th></tr><tr><td>120+00</td><td>-</td><td>859+00</td><td>PROJECT LIMITS</td><td>14</td></tr><tr><td>TOTAL</td><td></td><td></td><td></td><td>14</td></tr></table> NOTE; USE THE POSTED SPEED OF 55 MPH AND A SPOTTING SIGHT DISTANCE OF 0.21 MILES AS PER SPECIAL PROVISION				STA	TO	STA	LOCATION	MI	120+00	-	859+00	PROJECT LIMITS	14	TOTAL				14
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PROJECT NO: 9010-03-60		HWY: STH 52		COUNTY: MARATHON & SHAWANO		MISCELLANEOUS QUANTITIES		SHEET:		E																																																																																													
FILE NAME : _____		PLOT DATE : _____		PLOT BY : _____		PLOT NAME : _____		PLOT SCALE : 1:1																																																																																															

CONSTRUCTION STAKING

650.6000
PIPE CULVERTS

650.9920
SLOPE STAKES

650.0000
RESURFACING
REFERENCE

CULVERT	STATION TO STATION	EACH	LF	LF
C 37-52-017	217+25 - 218+75	1	300	
C 37-52-018	219+50 - 221+00	1	300	
C 37-52-022	277+75 - 279+25	1	300	
C 37-52-024	314+75 - 316+50	1	350	
C 37-52-028	459+50 - 461+25	1	350	
C 37-52-029	466+25 - 467+75	1	300	
C 37-52-030	524+25 - 526+00	1	350	
C 37-52-033	605+25 - 607+00	1	350	
C 37-52-035	659+50 - 661+50	1	400	
PROJECT				73900
TOTALS		9	3,000	73900

SEAL COAT

	SPV.0180.01 SEAL COAT	SPV.0125.01 PREPARE EXISTING PAVEMENT FOR SEAL COAT
PROJECT	SY	MI
587+25 - 859+00	78,505	5.14
TOTAL	78,505	5.14

TEMPORARY PAVEMENT MARKING

649.2102
TEMPORARY RAISED
PAVEMENT MARKERS

STATION - STATION	LOCATION	TYPE II EACH	NOTES
587+25 - 859+00	EDGE LINE	2174	WHITE
587+25 - 859+00	CENTER LINE	2331	YELLOW
TOTAL		4,505	

25' SPACING ON SOLID YELLOW AND ON EDGE LINE
3 TABS PER SKIP (1 AT EACH END AND ONE IN THE MIDDLE)

DITCH CLEANING

SPV.0090.01

STATION - STATION	LF
421+00 - 430+00 RT	900
UNDISTRIBUTED	200
TOTAL	1100

PERMENANT SIGNING SHEET 1

PERMANENT SIGNING SHEET 1						634.0616 POSTS WOOD 4"X6" 16-FT EACH	637.2210 SIGNS TYPE II REFLECTIVE H	637.2230 SIGNS TYPE II REFLECTIVE F	638.3000 REMOVING SMALL SIGNS SUPPORTS EACH	638.2602 REMOVING SIGNS TYPE II EACH	REMARKS
SIGN NUMBER	STATION	POSITION	CODE	DESCRIPTION	SIZE		SF	SF			
1: 1	119+25	LEFT	W14-3	NO PASSING ZONE	48x36	1.00	0.00	6.00	1.00	1.00	NO PASSING ZONE
1: 2	127+15	RIGHT	W057+51	NEXT 13 MILES						1.00	REMOVE ONLY
1: 3	127+15	RIGHT	W13-1	ADVISORY SPEED (45)					1.00	1.00	REMOVE ONLY
1: 4	127+15	RIGHT	W8-8	ROUGH ROAD					1.00	1.00	REMOVE ONLY
1: 5	136+10	RIGHT	WW11-3	NEXT 2 MILES					1.00	1.00	REMOVE ONLY
1: 6	136+10	RIGHT	W057-51	DEER CROSSING					1.00	1.00	REMOVE ONLY
1: 7	142+50	LEFT	I55-56	ADOPT-A-HIGHWAY [SPONSOR]	24 X 30	1.00	5.00	0.00	1.00	1.00	WAUSAU NOON OPTIMIST CLUB
1: 8	144+00	CROSSROAD	R1-1	STOP	30X30	1.00	6.25	0.00	1.00	1.00	SPRING BROOK RD
1: 9	145+70	RIGHT	I-55-56	ADOPT-A-HIGHWAY [SPONSOR]	24 X 30	1.00	5.00	0.00	1.00	1.00	WAUSAU EAST H.S. KEY CLUB
1: 10	154+00	RIGHT	W14-3	NO PASSING ZONE	48x36	1.00	0.00	6.00	1.00	1.00	NO PASSING ZONE
1: 11	159+40	RIGHT	W5-52R	CLEARANCE STRIPER DOWN RIGHT	12X36			1.00	1.00	1.00	
1: 12	159+40	LEFT	W5-52L	CLEARANCE STRIPER DOWN LEFT	12X36	1.00		1.00	1.00	1.00	
1: 13	160+00	RIGHT	W5-52L	CLEARANCE STRIPER DOWN LEFT	12X36			1.00	1.00	1.00	
1: 14	160+00	LEFT	W5-52R	CLEARANCE STRIPER DOWN RIGHT	12X36			1.00	1.00	1.00	
1: 15	171+60	LEFT	W14-3	NO PASSING ZONE	48x36	1.00	0.00	6.00	1.00	1.00	NO PASSING ZONE
1:16	170+30	RIGHT	W13-1	45 MPH	18X18			2.25			
1: 17	170+30	RIGHT	W2-1	CROSS ROAD	30X30	1.00		6.25	1.00	1.00	
2: 1	183+10	CROSSROAD	R1-1	STOP	30X30	1.00	6.25	0.00	1.00	1.00	SUNRISE ROAD
2: 2	183+60	LEFT	R7-1-D	NO PARKING RT ARROW	18X24	1.00	3.00		1.00	1.00	REPLACE EXISTING R7-1-R with R7-1-D
2: 3	183+95	CROSSROAD	R1-1	STOP	30X30	1.00	6.25	0.00	1.00	1.00	SUNRISE ROAD
2: 4	184+15	LEFT	R7-1-D	NO PARKING DOUBLE ARROW	18X24	1.00	3.00		1.00	1.00	
2: 5	185+75	LEFT	R7-1-D	NO PARKING LT ARROW	18X24	1.00	3.00		1.00	1.00	REPLACE EXISTING R7-1-L with R7-1-D
2: 6	188+40	LEFT	S3-1	SCHOOL BUS STOP AHEAD	30X30	1.00		6.25	1.00	1.00	
2: 7	191+80	LEFT	W2-1	CROSS ROAD	30X30	1.00		6.25	1.00	1.00	
2: 8	191+80	LEFT	W13-1	45 MPH	18X18			2.25			
2: 9	195+15	RIGHT	W14-3	NO PASSING ZONE	48x36	1.00	0.00	6.00	1.00	1.00	NO PASSING ZONE
2: 10	205+00	RIGHT	W5-52R	CLEARANCE STRIPER DOWN RIGHT	12X36	1.00		1.00	1.00	1.00	
2: 11	205+00	LEFT	W5-52L	CLEARANCE STRIPER DOWN LEFT	12X36			1.00	1.00	1.00	
2: 12	205+60	LEFT	W5-52R	CLEARANCE STRIPER DOWN RIGHT	12X36			1.00	1.00	1.00	
2: 13	205+60	RIGHT	W5-52L	CLEARANCE STRIPER DOWN LEFT	12X36			1.00	1.00	1.00	
2: 14	219+40	LEFT	W14-3	NO PASSING ZONE	48x36	1.00	0.00	6.00	1.00	1.00	NO PASSING ZONE
2: 15	225+30	LEFT	W057-51	DEER CROSSING					1.00	1.00	
2: 16	225+30	LEFT	WW11-3	NEXT 2 MILES					1.00	1.00	
3: 1	236+40	CROSSROAD	R1-1	STOP	30X30	1.00	6.25	0.00	1.00	1.00	STAR RD
3: 2	236+60	CROSSROAD	R1-1	STOP	30X30	1.00	6.25	0.00	1.00	1.00	STAR RD
3: 3	237+00	RIGHT	R7-1-D	NO PARKING RT ARROW	18X24	1.00	3.00		1.00	1.00	REPLACE EXISTING R7-1-R with R7-1-D
3: 4	239+10	RIGHT	R7-1-D	NO PARKING DOUBLE ARROW	18X24	1.00	3.00		1.00	1.00	
3: 5	241+90	RIGHT	R7-1-D	NO PARKING LT ARROW	18X24	1.00	3.00		1.00	1.00	REPLACE EXISTING R7-1-L with R7-1-D
3: 6	242+40	RIGHT	W14-3	NO PASSING ZONE	48x36	1.00	0.00	6.00	1.00	1.00	NO PASSING ZONE
3: 7	249+15	LEFT	W14-3	NO PASSING ZONE	48x36	1.00	0.00	6.00	1.00	1.00	NO PASSING ZONE
3: 8	256+05	RIGHT	J1-1	JCT CTH Q	24X39	1.00	6.50		1.00	1.00	
3: 9	257+75	RIGHT	R2-1	SPEED LIMIT	24X30	1.00		5.00	1.00	1.00	55 MPH
3: 10	258+10	LEFT	R2-1	SPEED LIMIT	24X30	1.00		5.00	1.00	1.00	55 MPH
3: 11	260+15	LEFT	I55-56	ADOPT-A-HIGHWAY [SPONSOR]	24 X 30	1.00	5.00	0.00	1.00	1.00	WAUSAU EAST H.S. KEY CLUB
3: 12	262+50	RIGHT	J13-1	COUNTY Q DOUBLE ARROW	24X45	1.00	7.50		1.00	1.00	COUNTY Q DOUBLE ARROW
3: 13	261+40	LEFT	J4-1	WEST 52	24X36	1.00	6.00		1.00	1.00	WEST 52
3: 14	262+45	LEFT	J13-1	52 DOUBLE ARROW	24X45	1.00	7.50		1.00	1.00	52 DOUBLE ARROW
3: 15	262+50	CROSSROAD	R1-1	STOP	36x36	1.00	9.00	0.00	1.00	1.00	CTH Q
3: 16	263+50	RIGHT	J13-1	52 DOUBLE ARROW	24X45	1.00	7.50		1.00	1.00	52 DOUBLE ARROW
3: 17	263+05	CROSSROAD	R1-1	STOP	36x36	1.00	9.00	0.00	1.00	1.00	CTH Q
3: 18	263+80	LEFT	J1-1	JCT CTH Q	24X39	1.00	6.50		1.00	1.00	
3: 19	265+00	RIGHT	J4-1	EAST 52	24X36	1.00	6.00		1.00	1.00	EAST 52
3: 20	270+20	LEFT	J1-1	JCT CTH Q	24X39	1.00	6.50		1.00	1.00	
3: 21	258+10	LEFT	R2-1	SPEED LIMIT	24X30	1.00		5.00	1.00	1.00	55 MPH
3: 22	275+60	RIGHT	W14-3	NO PASSING ZONE	48x36	1.00	0.00	6.00	1.00	1.00	NO PASSING ZONE
3: 23	285+60	LEFT	W14-3	NO PASSING ZONE	48x36	1.00	0.00	6.00	1.00	1.00	NO PASSING ZONE
3: 24	289+15	CROSSROAD	R1-1	STOP	30X30	1.00	6.25	0.00	1.00	1.00	HEMLOCK ROAD
3: 25	289+50	CROSSROAD	R1-1	STOP	30X30	1.00	6.25	0.00	1.00	1.00	HEMLOCK ROAD
4: 1	298+30	LEFT	W14-3	NO PASSING ZONE	48x36	1.00	0.00	6.00	1.00	1.00	NO PASSING ZONE
4: 2	299+75	RIGHT	W14-3	NO PASSING ZONE	48x36	1.00	0.00	6.00	1.00	1.00	NO PASSING ZONE
4: 3	315+80	CROSSROAD	R1-1	STOP	30X30	1.00	6.25	0.00	1.00	1.00	PIT ROAD
4: 4	316+40	LEFT		DOWN ARROW					1.00	1.00	REMOVE ONLY
4: 5	316+40	LEFT		BUMP		1.00			1.00	1.00	REMOVE ONLY
4: 6	316+95	RIGHT		DOWN ARROW					1.00	1.00	REMOVE ONLY
4: 7	316+95	RIGHT		BUMP		1.00			1.00	1.00	REMOVE ONLY
4: 8	319+95	RIGHT	W14-3	NO PASSING ZONE	48x36	1.00	0.00	6.00	1.00	1.00	NO PASSING ZONE
4: 9	326+30	LEFT	W14-3	NO PASSING ZONE	48x36	1.00	0.00	6.00	1.00	1.00	NO PASSING ZONE
4: 10	343+60	LEFT	R7-1-D	NO PARKING DOUBLE ARROW	18X24	1.00	3.00		1.00	1.00	
4: 11	344+10	RIGHT	R7-1-D	NO PARKING DOUBLE ARROW	18X24	1.00	3.00		1.00	1.00	
4: 12	346+20	LEFT	R7-1-D	NO PARKING DOUBLE ARROW	18X24	1.00	3.00		1.00	1.00	
SUB TOTAL						53	164	124	65	68	

PERMENANT SIGNING SHEET 2

PERMANENT SIGNING SHEET 2						634.0616 POSTS WOOD 4"X6" 16-FT EACH	637.2210 SIGNS TYPE II REFLECTIVE H	637.2230 SIGNS TYPE II REFLECTIVE F	638.3000 REMOVING SMALL SIGNS SUPPORTS	638.2602 REMOVING SIGNS TYPE II	
SIGN NUMBER	STATION	POSITION	CODE	DESCRIPTION	SIZE		SF	SF	EACH	EACH	REMARKS
4: 13	346+70	RIGHT	R7-1-D	NO PARKING DOUBLE ARROW	18X24	1.00	3.00		1.00	1.00	
4: 14	348+40	LEFT	R7-1-D	NO PARKING DOUBLE ARROW	18X24	1.00	3.00		1.00	1.00	
4: 15	348+95	RIGHT	R7-1-D	NO PARKING DOUBLE ARROW	18X24	1.00	3.00		1.00	1.00	
4: 16	352+50	RIGHT	W14-3	NO PASSING ZONE	48x36	1.00	0.00	6.00	1.00	1.00	NO PASSING ZONE
4: 17	353+65	LEFT	R7-1-D	NO PARKING DOUBLE ARROW	18X24	1.00	3.00		1.00	1.00	
4: 18	353+60	RIGHT	R7-1-D	NO PARKING DOUBLE ARROW	18X24	1.00	3.00		1.00	1.00	
5: 1	357+95	LEFT	W14-3	NO PASSING ZONE	48x36	1.00	0.00	6.00	1.00	1.00	NO PASSING ZONE
5: 2	362+95	LEFT		DOWN ARROW						1.00	REMOVE ONLY
5: 3	362+95	LEFT		BUMP					1.00	1.00	REMOVE ONLY
5: 4	368+90	CROSSROAD	R1-1	STOP	30X30	1.00	6.25	0.00	1.00	1.00	WOODLAND ROAD
5: 5	369+10	CROSSROAD	R1-1	STOP	30X30	1.00	6.25	0.00	1.00	1.00	WOODLAND ROAD
5: 6	398+55	RIGHT	W14-3	NO PASSING ZONE	48x36	1.00	0.00	6.00	1.00	1.00	NO PASSING ZONE
6: 1	421+50	CROSSROAD	R1-1	STOP	30X30	1.00	6.25	0.00	1.00	1.00	MILL ROAD
6: 2	423+80	LEFT	W14-3	NO PASSING ZONE	48x36	1.00	0.00	6.00	1.00	1.00	NO PASSING ZONE
6: 3	421+99	CROSSROAD	R1-1	STOP	30X30	1.00	6.25	0.00	1.00	1.00	MILL ROAD
6: 4	436+25	LEFT		BUMP					1.00	1.00	REMOVE ONLY
6: 5	436+25	LEFT		DOWN ARROW						1.00	REMOVE ONLY
6: 6	436+50	RIGHT		BUMP					1.00	1.00	REMOVE ONLY
6: 7	436+50	RIGHT		DOWN ARROW						1.00	REMOVE ONLY
6: 8	442+90	RIGHT	W14-3	NO PASSING ZONE	48x36	1.00	0.00	6.00	1.00	1.00	NO PASSING ZONE
6: 9	449+80	RIGHT	D7-68	ROAD TO DELLS OF EAU CLAIRE COUNTY PARK	84X42	2.00		24.50	2.00	1.00	1 MILE
6: 10	459+80	LEFT		DOWN ARROW						1.00	REMOVE ONLY
6: 11	459+80	LEFT		BUMP					1.00	1.00	REMOVE ONLY
6: 12	460+00	RIGHT		DOWN ARROW						1.00	REMOVE ONLY
6: 13	460+00	RIGHT		BUMP					1.00	1.00	REMOVE ONLY
6: 14	462+95	LEFT	W14-3	NO PASSING ZONE	48x36	1.00	0.00	6.00	1.00	1.00	NO PASSING ZONE
6: 15	474+20	CROSSROAD	R1-1	STOP	30X30	1.00	6.25	0.00	1.00	1.00	ROCKY ROAD
7: 1	479+40	LEFT		DOWN ARROW						1.00	REMOVE ONLY
7: 2	479+40	LEFT		BUMP					1.00	1.00	REMOVE ONLY
7: 3	484+50	RIGHT		DOWN ARROW						1.00	REMOVE ONLY
7: 4	484+50	RIGHT		BUMP					1.00	1.00	REMOVE ONLY
7: 5	483+00	RIGHT	W14-3	NO PASSING ZONE	48x36	1.00	0.00	6.00	1.00	1.00	NO PASSING ZONE
7: 6	486+15	LEFT	W14-3	NO PASSING ZONE	48x36	1.00	0.00	6.00	1.00	1.00	NO PASSING ZONE
7: 7	189+75	LEFT	R2-1	SPEED LIMIT	24X30	1.00		5.00	1.00	1.00	55 MPH
7: 8	492+95	RIGHT	J1-1	JCT CTH Y	24X39	1.00	6.50		1.00	1.00	
7: 9	495+05	LEFT	D7-68-R	DELLS OF EAU CLAIRE COUNTY PARK	84X42	2.00		24.50	2.00	1.00	
7: 10	498+95	LEFT	J4-1	WEST 52	24X36	1.00	6.00		1.00	1.00	WEST 52
7: 11	500+00	RIGHT	J12-1	COUNTY Y UA, RA	24X45	1.00	7.50		1.00	1.00	
7: 12	500+30	LEFT	W1-7	DOUBLE ARROW	48X24	1.00	8.00		1.00	1.00	
7: 13	500+40	CROSSROAD	R1-1	STOP	36x36	1.00	9.00	0.00	1.00	1.00	CTH Y
7: 14	500+40	LEFT	J12-1	COUNTY Y LEFT ARROW	24X45	1.00	7.50		1.00	1.00	
7: 15	500+75	RIGHT	J13-1	52 DOUBLE ARROW	24X45	1.00	7.50		1.00	1.00	52 DOUBLE ARROW
7: 16	504+05	LEFT	D7-68-L	DELLS OF EAU CLAIRE COUNTY PARK	84X42	2.00		24.50	2.00	1.00	
7: 17	501+10	RIGHT	J4-1	EAST 52	24X36	1.00	6.00		1.00	1.00	EAST 52
7: 18	503+60	RIGHT	R2-1	SPEED LIMIT	24X30	1.00		5.00	1.00	1.00	55 MPH
7: 19	506+90	RIGHT	J4-1	EAST 52	24X36	1.00	6.00		1.00	1.00	EAST 52
7: 20	508+95	LEFT	J12-1	COUNTY Y LA	24X45	1.00	7.50		1.00	1.00	
7: 21	509+40	RIGHT	W14-3	NO PASSING ZONE	48x36	1.00	0.00	6.00	1.00	1.00	NO PASSING ZONE
7: 22	510-40	LEFT	W14-3	NO PASSING ZONE	48x36	1.00	0.00	6.00	1.00	1.00	NO PASSING ZONE
7: 23	517+95	LEFT	R2-1	SPEED LIMIT	24X30	1.00		5.00	1.00	1.00	55 MPH
7: 24	256+20	CROSSROAD	R1-1	STOP	30X30	1.00	6.25	0.00	1.00	1.00	SWANSON RD
8: 1	546+50	RIGHT	W14-3	NO PASSING ZONE	48x36	1.00	0.00	6.00	1.00	1.00	NO PASSING ZONE
8: 2	548+95	LEFT	W14-3	NO PASSING ZONE	48x36	1.00	0.00	6.00	1.00	1.00	NO PASSING ZONE
8: 3	553+50	RIGHT	D7-68	ROAD TO DELLS OF EAU CLAIRE COUNTY PARK	84X42	2.00		24.50	2.00	1.00	1 MILE
8: 4	570+50	LEFT	J12-1	COUNTY Y RIGHT ARROW	24X45	1.00	7.50		1.00	1.00	
8: 5	569+40	RIGHT		DOWN ARROW						1.00	REMOVE ONLY
8: 6	569+40	RIGHT		BUMP					1.00	1.00	REMOVE ONLY
8: 7	572+10			DOWN ARROW						1.00	REMOVE ONLY
8: 8	571+50			BUMP					1.00	1.00	REMOVE ONLY
8: 9	575+90	RIGHT	W13-1	45 MPH	18X18			2.25		1.00	
8: 10	572+10	RIGHT	W2-1	CROSS ROAD	30X30	1.00		6.25	1.00	1.00	
8: 11	576+40	RIGHT	I2-3-U	HOGARTY UNINCORPORATED	54X24	2.00		9.00	2.00	1.00	
8: 12	578+95	LEFT	J4-1	WEST 52	24X36	1.00	6.00		1.00	1.00	WEST 52
8: 13	576+40	RIGHT	M6-1	LEFT ARROW	21X21	1.00		3.06	1.00	1.00	
8: 14	577+50	RIGHT	M6-86	WILDLIFE VIEWING AREA	18X36	1.00		4.50		1.00	
8: 15	579+05	LEFT	J13-2	52 DOUBLE ARROW, COUNTY Y RIGHT ARROW	48X45	1.00		15.00	1.00	1.00	
8: 16	579+20	RIGHT	J12-1	COUNTY Y LEFT ARROW	24X45	1.00	7.50		1.00	1.00	
8: 17	579+80	CROSSROAD	R1-1	STOP	36x36	1.00	9.00	0.00	1.00	1.00	CTH Y
8: 18	580+30	CROSSROAD	R1-1	STOP	30X30	1.00	6.25	0.00	1.00	1.00	EAU CLAIRE RIVER ROAD
8: 19	582+50	LEFT	J12-1	COUNTY Y UA, RA	24X45	1.00	7.50		1.00	1.00	
8: 20	583+60	RIGHT	J4-1	EAST 52	24X36	1.00	6.00		1.00	1.00	EAST 52
SUB TOTAL						57	173.75	225.06	65	71	

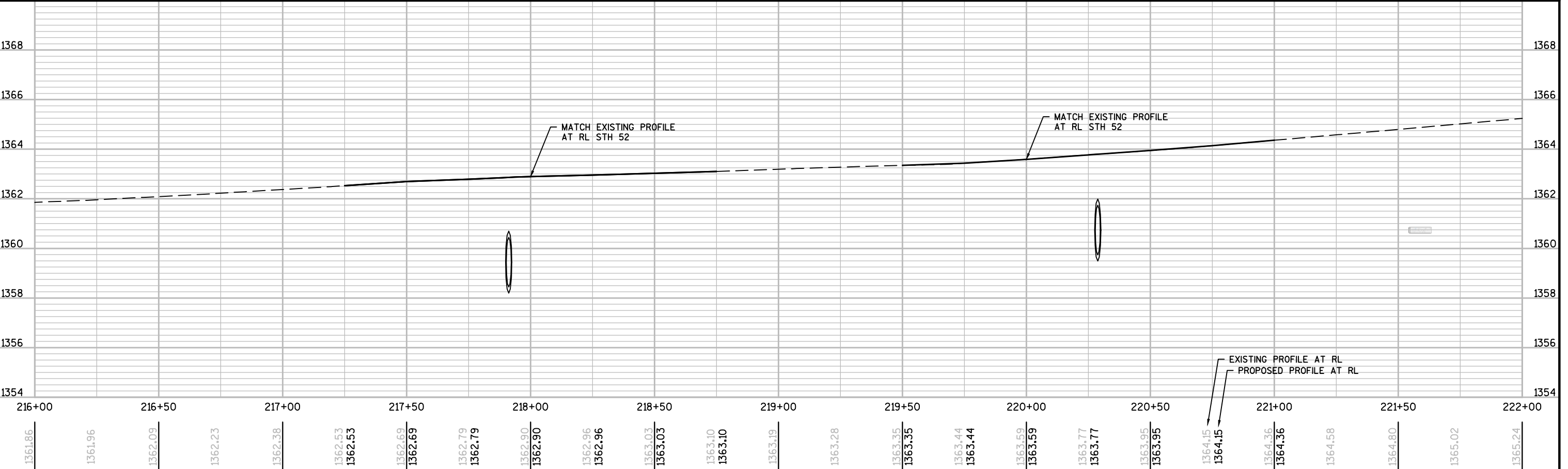
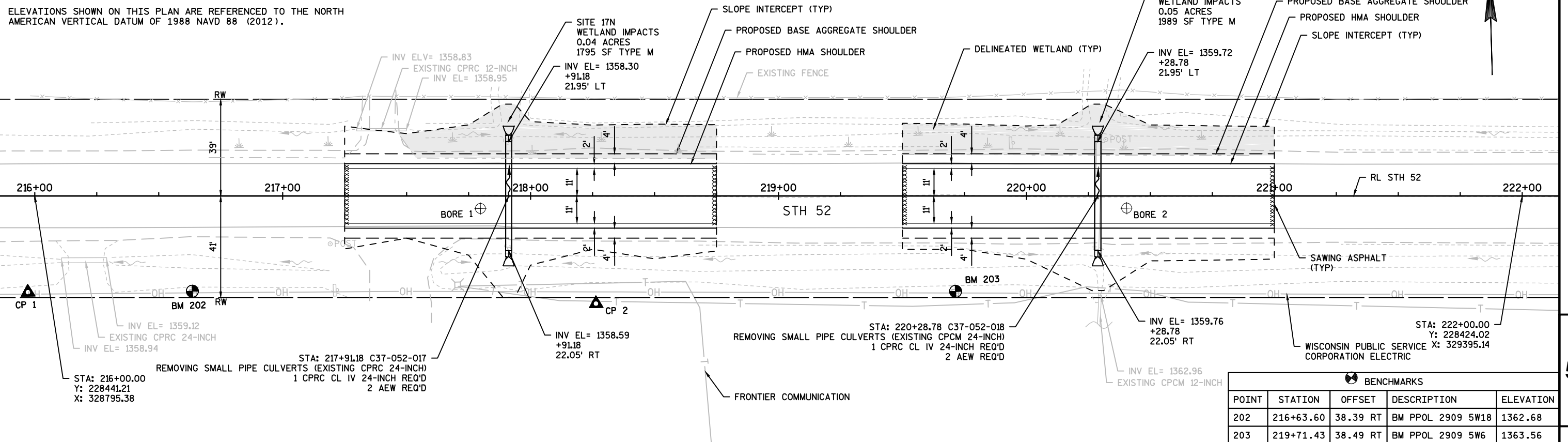
PERMENANT SIGNING SHEET 3

SIGN NUMBER	STATION	POSITION	CODE	DESCRIPTION	SIZE	634.0616 POSTS WOOD 4"X6" 16-FT	637.2210 SIGNS TYPE II REFLECTIVE H	637.2230 SIGNS TYPE II REFLECTIVE F	638.3000 REMOVING SMALL SIGNS SUPPORTS	638.2602 REMOVING SIGNS TYPE II	REMARKS
						EACH	SF	SF	EACH	EACH	
8: 21	583+60	LEFT	M6-86	WILDLIFE VIEWING AREA	18X36	1.00		4.50		1.00	
8: 22	583+60	LEFT	M6-1	LEFT ARROW	21X21	1.00		3.06	1.00	1.00	
8: 23	585+40	RIGHT	W5-52R	CLEARANCE STRIPER DOWN RIGHT	12X36	1.00		1.00	1.00	1.00	
8: 24	585+40	RIGHT	I3-1	EAU CLAIRE RIVER	30X9	1.00		1.88	1.00	1.00	
8: 25	585+40	LEFT	W5-52L	CLEARANCE STRIPER DOWN LEFT	12X36	1.00		1.00	1.00	1.00	
8: 26	587+20	LEFT	I3-1	EAU CLAIRE RIVER	30X9	1.00		1.88	1.00	1.00	
8: 27	587+20	RIGHT	W5-52L	CLEARANCE STRIPER DOWN LEFT	12X36	1.00		1.00	1.00	1.00	
8: 28	587+20	LEFT	W5-52R	CLEARANCE STRIPER DOWN RIGHT	12X36	1.00		1.00	1.00	1.00	
8: 29	589+15	RIGHT	W14-3	NO PASSING ZONE	48x36	1.00	0.00	6.00	1.00	1.00	NO PASSING ZONE
8: 30	590+40	LEFT	W14-3	NO PASSING ZONE	48x36	1.00	0.00	6.00	1.00	1.00	NO PASSING ZONE
8: 31	588+80	RIGHT	R2-1	SPEED LIMIT	24X30	1.00		5.00	1.00	1.00	55 MPH
8: 32	589+75	LEFT	J1-1	JCT CTH Y	24X39	1.00	6.50		1.00	1.00	
8: 33	594+50	LEFT	I2-3-U	HOGARTY UNINCORPORATED	54X24	2.00		9.00	2.00	1.00	
9: 1	605+80	CROSSROAD	R1-1	STOP	30X30	1.00	6.25	0.00	1.00	1.00	MEADOW LANE
9: 2	613+50	LEFT	W14-3	NO PASSING ZONE	48x36	1.00	0.00	6.00	1.00	1.00	NO PASSING ZONE
9: 3	614+40	RIGHT	W14-3	NO PASSING ZONE	48x36	1.00	0.00	6.00	1.00	1.00	NO PASSING ZONE
9: 4	629+30	LEFT	W14-3	NO PASSING ZONE	48x36	1.00	0.00	6.00	1.00	1.00	NO PASSING ZONE
9: 5	629+40	RIGHT	W14-3	NO PASSING ZONE	48x36	1.00	0.00	6.00	1.00	1.00	NO PASSING ZONE
9: 6	632+10	CROSSROAD	R1-1	STOP	30X30	1.00	6.25	0.00	1.00	1.00	NORTH POLE ROAD
9: 7	634+75	RIGHT	W14-3	NO PASSING ZONE	48x36	1.00	0.00	6.00	1.00	1.00	NO PASSING ZONE
10: 1	674+25	LEFT	W14-3	NO PASSING ZONE	48x36	1.00	0.00	6.00	1.00	1.00	NO PASSING ZONE
10: 2	684+50	CROSSROAD	R1-1	STOP	30X30	1.00	6.25	0.00	1.00	1.00	NOLAND ROAD
10: 3	709+50	LEFT	W14-3	NO PASSING ZONE	48x36	1.00	0.00	6.00	1.00	1.00	NO PASSING ZONE
11: 1	729+05	RIGHT	W14-3	NO PASSING ZONE	48x36	1.00	0.00	6.00	1.00	1.00	NO PASSING ZONE
11: 2	732+10	RIGHT		BUMP					1.00	1.00	REMOVE ONLY
11: 3	732+10	RIGHT		DOWN ARROW						1.00	REMOVE ONLY
11: 4	733+05	LEFT		DOWN ARROW						1.00	REMOVE ONLY
11: 5	733+05	LEFT		BUMP					1.00	1.00	REMOVE ONLY
11: 6	737+10	CROSSROAD	R1-1	STOP	30X30	1.00	6.25	0.00	1.00	1.00	HATCHERY ROAD
11: 7	739+00	RIGHT	I3-1	PLOVER RIVER	30X9	1.00		1.88	1.00	1.00	
11: 8	737+95	CROSSROAD	R1-1	STOP	30X30	1.00	6.25	0.00	1.00	1.00	HIGHLAND DRIVE
11: 9	739+20	LEFT	W5-52L	CLEARANCE STRIPER DOWN LEFT	12X36	1.00		1.00	1.00	1.00	
11: 10	739+20	RIGHT	W5-52R	CLEARANCE STRIPER DOWN RIGHT	12X36	1.00		1.00	1.00	1.00	
11: 11	739+80	LEFT	W5-52R	CLEARANCE STRIPER DOWN RIGHT	12X36	1.00		1.00	1.00	1.00	
11: 12	739+80	RIGHT	W5-52L	CLEARANCE STRIPER DOWN LEFT	12X36	1.00		1.00	1.00	1.00	
11: 13	739+95	LEFT	I3-1	PLOVER RIVER	30X9	1.00		1.88	1.00	1.00	
11: 14	757+15	LEFT	W14-3	NO PASSING ZONE	48x36	1.00	0.00	6.00	1.00	1.00	NO PASSING ZONE
12: 3	776+25	RIGHT	W14-3	NO PASSING ZONE	48x36	1.00	0.00	6.00	1.00	1.00	NO PASSING ZONE
12: 2	778+90	LEFT	W14-3	NO PASSING ZONE	48x36	1.00	0.00	6.00	1.00	1.00	NO PASSING ZONE
12: 4	781+40	RIGHT	J1-1	JCT CTH HH	24X39	1.00	6.50		1.00	1.00	
12: 1	783+60	RIGHT	W1-2R	RIGHT ARROW CURVE	30X30	1.00		6.25	1.00	1.00	
12: 6	784+50	LEFT	W8-8	ROUGH ROAD					1.00	1.00	ROUGH ROAD
12: 5	784+50	LEFT	W057-51	NEXT 13 MILES						1.00	NEXT 13 MILES
12: 7	784+50	LEFT	W13-1	45 MPH						1.00	45 MPH
12: 8	786+15	LEFT	R2-1	SPEED LIMIT	24X30	1.00		5.00	1.00	1.00	55 MPH
12: 9	788+90	RIGHT	J13-1	COUNTY HH LA	24X45	1.00	7.50		1.00	1.00	COUNTY HH LA
12: 10	788+90	LEFT	J4-1	WEST 52	24X36	1.00	6.00		1.00	1.00	WEST 52
12: 11	789+90	LEFT	I2-2	MARATHON CO	90X15	2.00	9.38		2.00	1.00	MARATHON CO
12: 12	790+10	CROSSROAD	R1-1	STOP	36x36	1.00	9.00	0.00	1.00	1.00	CTH HH
12: 13	790+60	CROSSROAD	R1-1	STOP	30X30	1.00	6.25	0.00	1.00	1.00	PLOVER-ANIWA TOWNLINE ROAD
12: 15	791+00	RIGHT	J13-2	45 LA, 52 DOUBLE ARROW	48X45	1.00		15.00	1.00	1.00	45 LA, 52 DOUBLE ARROW
12: 16	791+45	RIGHT	I2-2	SHAWANO COUNTY	90X15	2.00	9.38		2.00	1.00	SHAWANO COUNTY
12: 14	791+50	LEFT	J13-1	COUNTY HH RA	24X45	1.00	7.50		1.00	1.00	COUNTY HH RA
12: 17	792+85	RIGHT	J4-1	EAST 52	24X36	1.00	6.00		1.00	1.00	EAST 52
12: 18	794+60	RIGHT	R2-1	SPEED LIMIT	24X30	1.00		5.00	1.00	1.00	55 MPH
12: 19	796+90	RIGHT	I-55-56	ADOPT-A-HIGHWAY [SPONSOR]	24 X 30	1.00	5.00	0.00	1.00	1.00	COUNTRY CRITTERS 4-H CLUB
12: 20	800+45	LEFT	J1-1	JCT CTH HH	24X39	1.00	6.50		1.00	1.00	
12: 21	804+60	LEFT	W1-2L	LEFT ARROW CURVE	30X30	1.00		6.25	1.00	1.00	
12: 22	808+60	RIGHT	W1-2L	LEFT ARROW CURVE	30X30	1.00		6.25	1.00	1.00	
12: 23	816+45	RIGHT	D1-1	ANIWA RA		1.00			1.00	1.00	ANIWA RA
12: 24	817+75	LEFT	J4-1	WEST 52	24X36	1.00	6.00		1.00	1.00	WEST 52
12: 25	818+20	CROSSROAD	R1-1	STOP	30X30	1.00	6.25	0.00	1.00	1.00	SUMMER STREET
12: 26	818+60	CROSSROAD	R1-1	STOP	30X30	1.00	6.25	0.00	1.00	1.00	SUMMER STREET
12: 27	825+50	LEFT	D1-1	ANIWA LA		1.00			1.00	1.00	ANIWA LA
12: 28	826+10	LEFT	W14-3	NO PASSING ZONE	48x36	1.00	0.00	6.00	1.00	1.00	NO PASSING ZONE
12: 29	827+75	RIGHT	W14-3	NO PASSING ZONE	48x36	1.00	0.00	6.00	1.00	1.00	NO PASSING ZONE
SUB TOTAL						61	135.26	166.33	64	65	

SIGN NUMBER	STATION	POSITION	CODE	DESCRIPTION	SIZE	WOOD 4"X6" 16-FT	TYPE II REFLECTIVE H	TYPE II REFLECTIVE F	SMALL SIGNS SUPPORTS	SIGNS TYPE II	REMARKS
						EACH	SF	SF	EACH	EACH	
13: 1	838+95	CROSSROAD	R1-1	STOP	30X30	1.00	6.25	0.00	1.00	1.00	MAPLE STREET
13: 2	849+80	LEFT	D2-1	WAUSAU 25							
13: 3	851+25	RIGHT	J2-3	NORTH 45 LA, EAST 52 LA, SOUTH 45 RA	72X57	2.00		28.50	2.00	1.00	
13: 4	854+00	LEFT		STOP AHEAD					1.00	1.00	
13: 5	854+00	LEFT	W3-1	STOP AHEAD	36X36	1.00		9.00			
13: 6	854+00	RIGHT		STOP AHEAD					1.00	1.00	
13: 7	854+00	RIGHT	W3-1	STOP AHEAD	36X36	1.00		9.00			
13: 8	857+60	RIGHT	D1-3	ANTIGO LA BIRNAMWOOD WITTENBERG RA							
13: 9	855+85	LEFT	R2-1	SPEED LIMIT	24X30	1.00		5.00	1.00	1.00	55 MPH
13: 10	858+40	LEFT	J4-1	WEST 52	24X36	1.00	6.00		1.00	1.00	WEST 52
13: 11	860+50	CROSSROAD	R1-1	STOP	36x36	1.00	9.00	0.00	1.00	1.00	US 45/STH 52
13: 12	860+50	CROSSROAD	R1-1	STOP	36x36	1.00	9.00	0.00	1.00	1.00	US 45/STH 52
SUB TOTAL						9	30.25	51.50	9	16	
GRAND TOTAL							180.00	503.26	203.00	220.00	

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, MARATHON COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

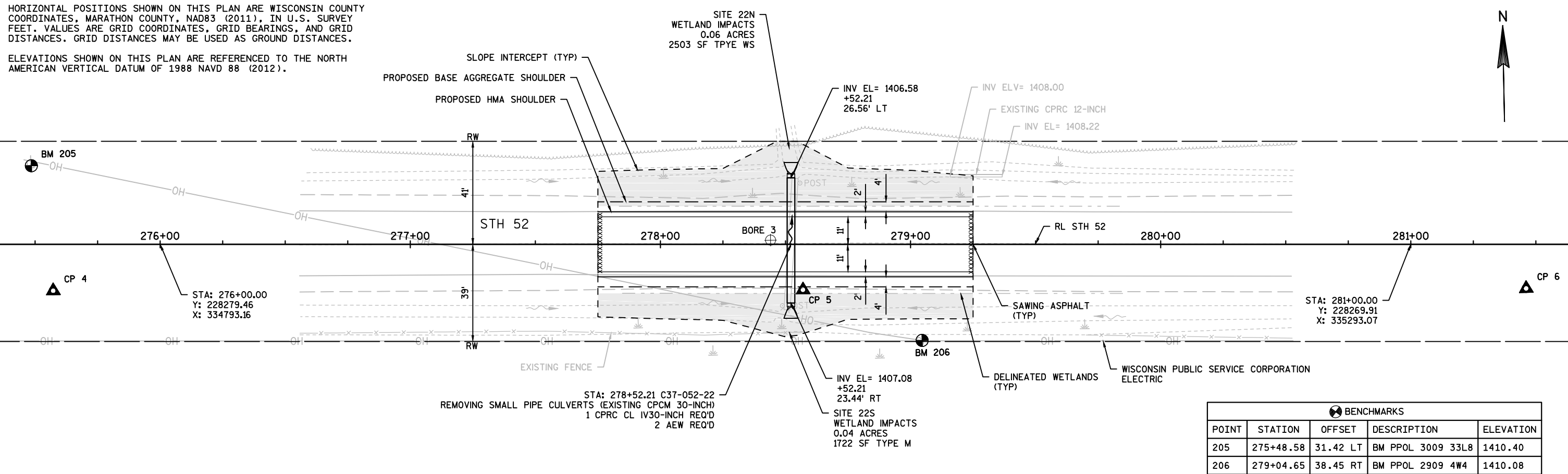
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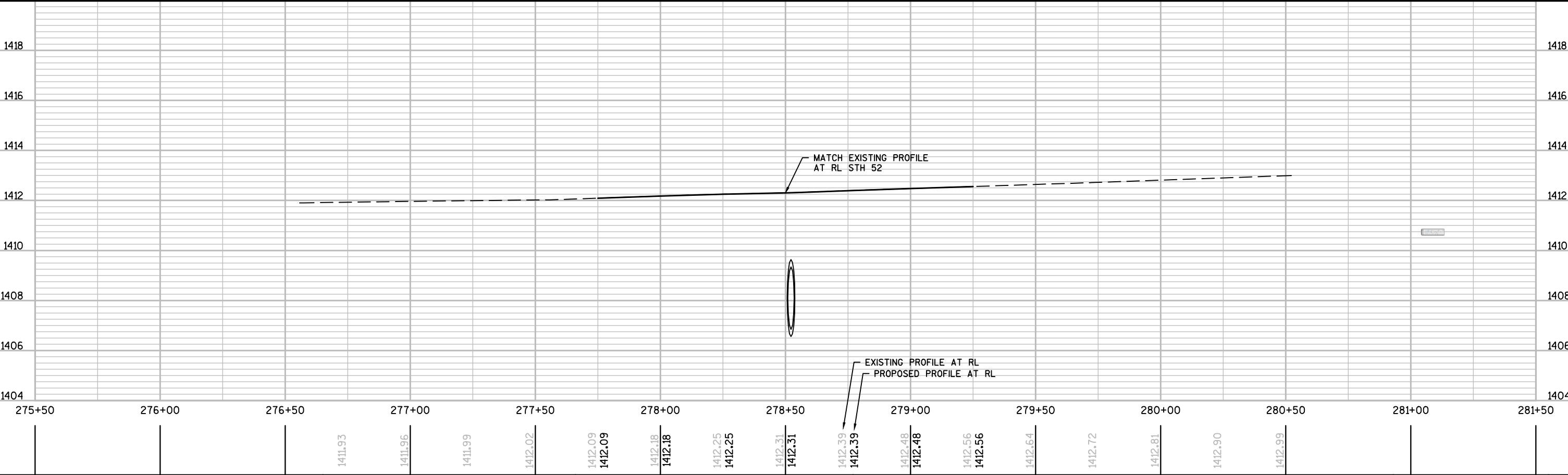
PROJECT NO: 9010-03-60 HWY: STH 52 COUNTY: MARATHON PLAN AND PROFILE: CULVERTS 37-052-017 & 37-052-018 SHEET 5

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, MARATHON COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 NAVD 88 (2012).



BENCHMARKS				
POINT	STATION	OFFSET	DESCRIPTION	ELEVATION
205	275+48.58	31.42 LT	BM PPOL 3009 33L8	1410.40
206	279+04.65	38.45 RT	BM PPOL 2909 4W4	1410.08



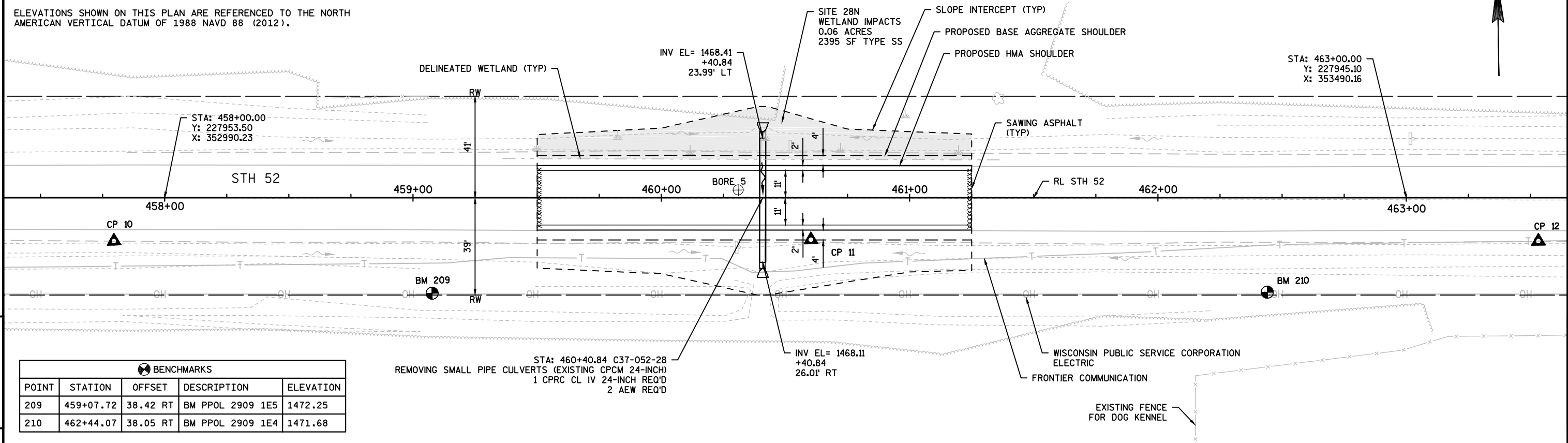
PROJECT NO: 9010-03-60	HWY: STH 52	COUNTY: MARATHON	PLAN AND PROFILE: CULVERT 37-052-22	SHEET	5
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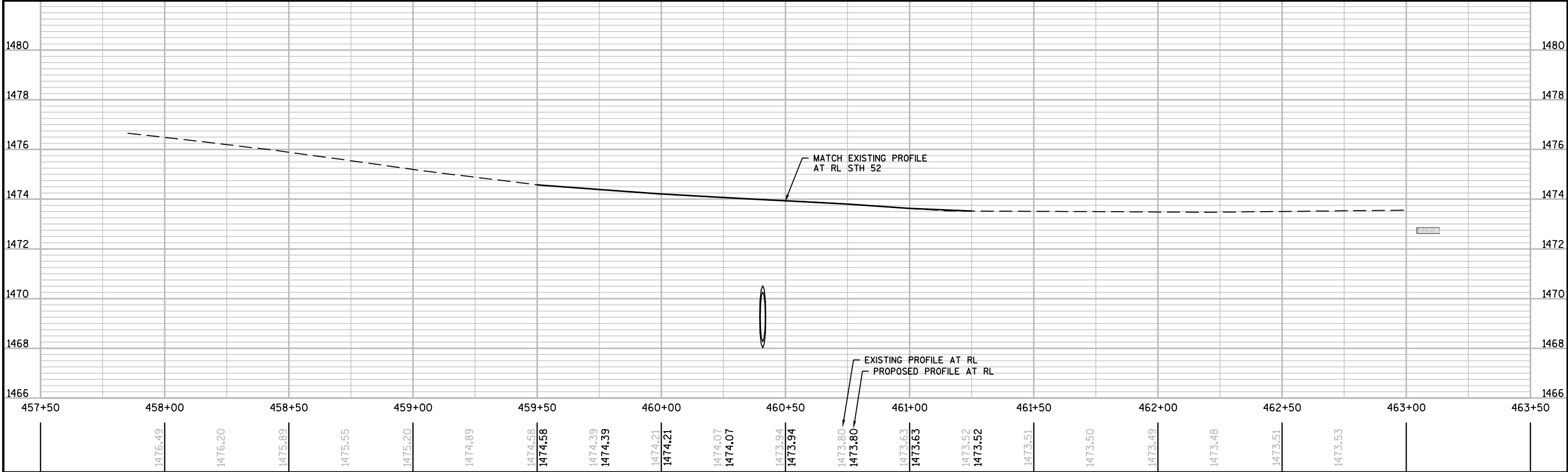
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HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, MARATHON COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 NAVD 88 (2012).



BENCHMARKS				
POINT	STATION	OFFSET	DESCRIPTION	ELEVATION
209	459+07.72	38.42 RT	BM PPOL 2909 1E5	1472.25
210	462+44.07	38.05 RT	BM PPOL 2909 1E4	1471.68



PROJECT NO: 9010-03-60	HWY: STH 52	COUNTY: MARATHON	PLAN AND PROFILE: CULVERT 37-052-28	SHEET	5
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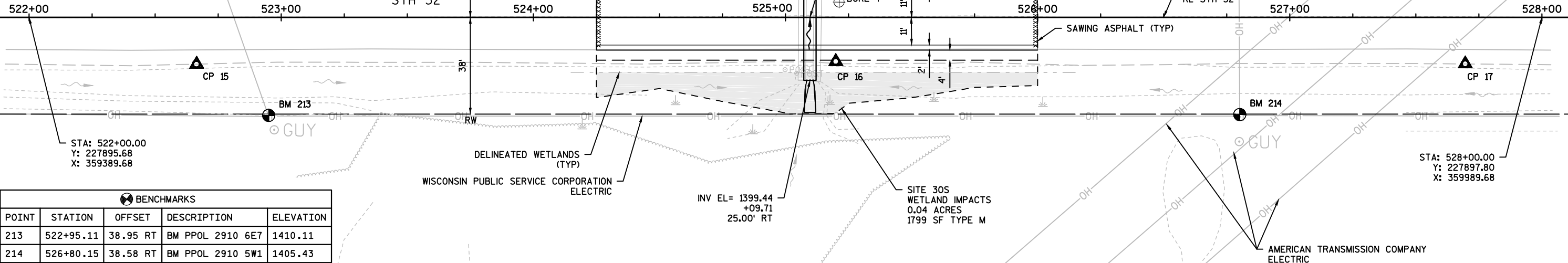
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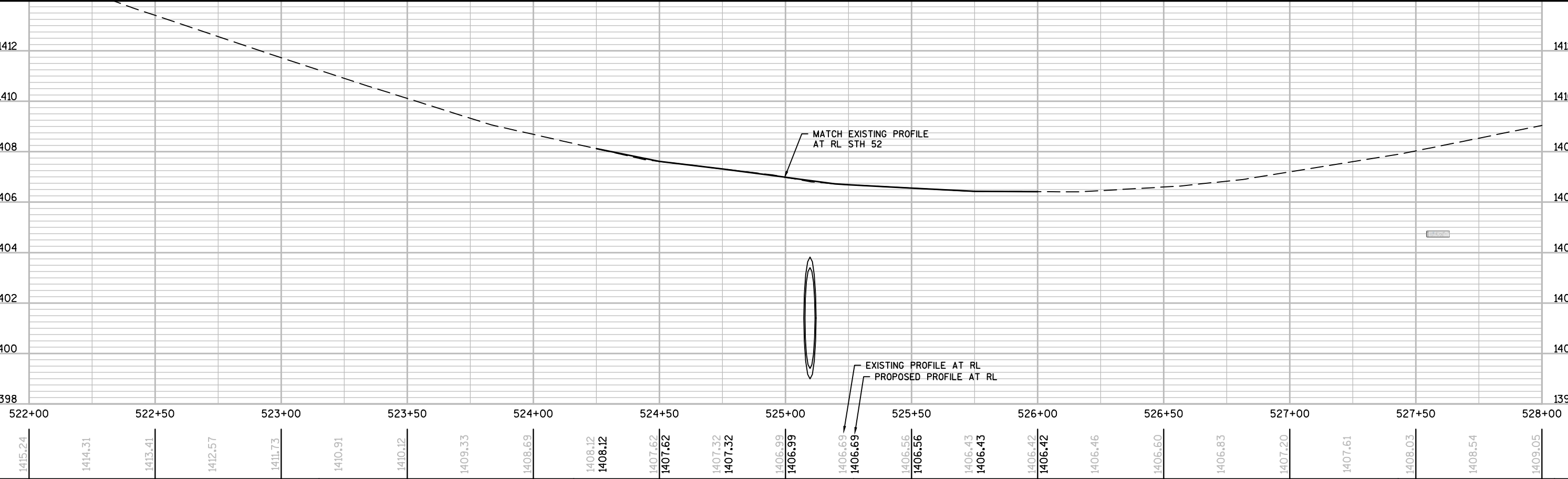
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ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 NAVD 88 (2012).

EXISTING CPRC 24-INCH
INV EL= 1413.86

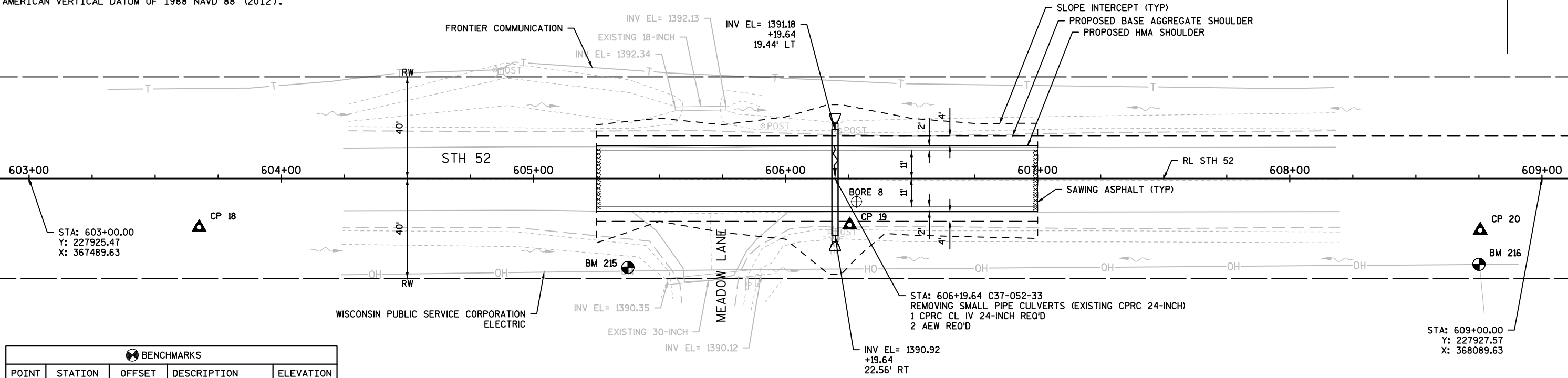


BENCHMARKS				
POINT	STATION	OFFSET	DESCRIPTION	ELEVATION
213	522+95.11	38.95 RT	BM PPOL 2910 6E7	1410.11
214	526+80.15	38.58 RT	BM PPOL 2910 5W1	1405.43

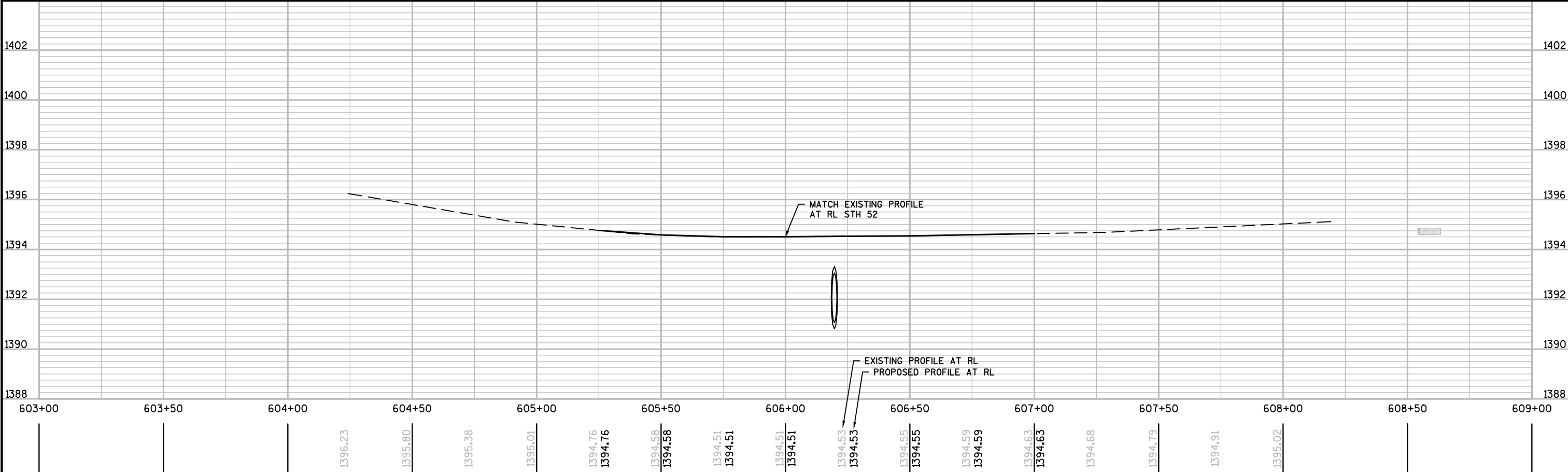


HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, MARATHON COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 NAVD 88 (2012).

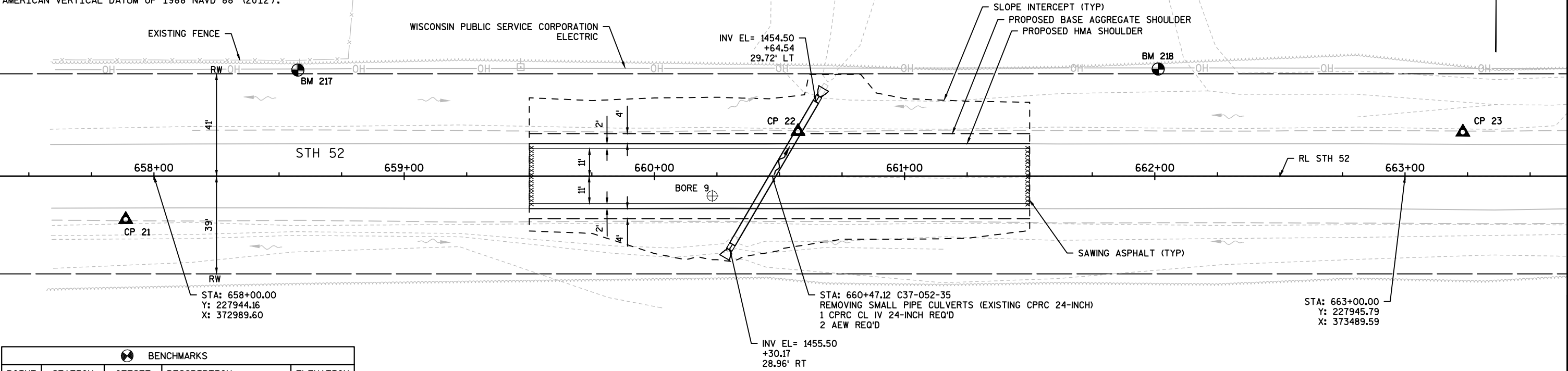


BENCHMARKS				
POINT	STATION	OFFSET	DESCRIPTION	ELEVATION
215	605+37.55	35.29 RT	BM PPOL 2910 4W1	1391.28
216	608+75.07	34.03 RT	BM PPOL 2910 4E1	1395.49

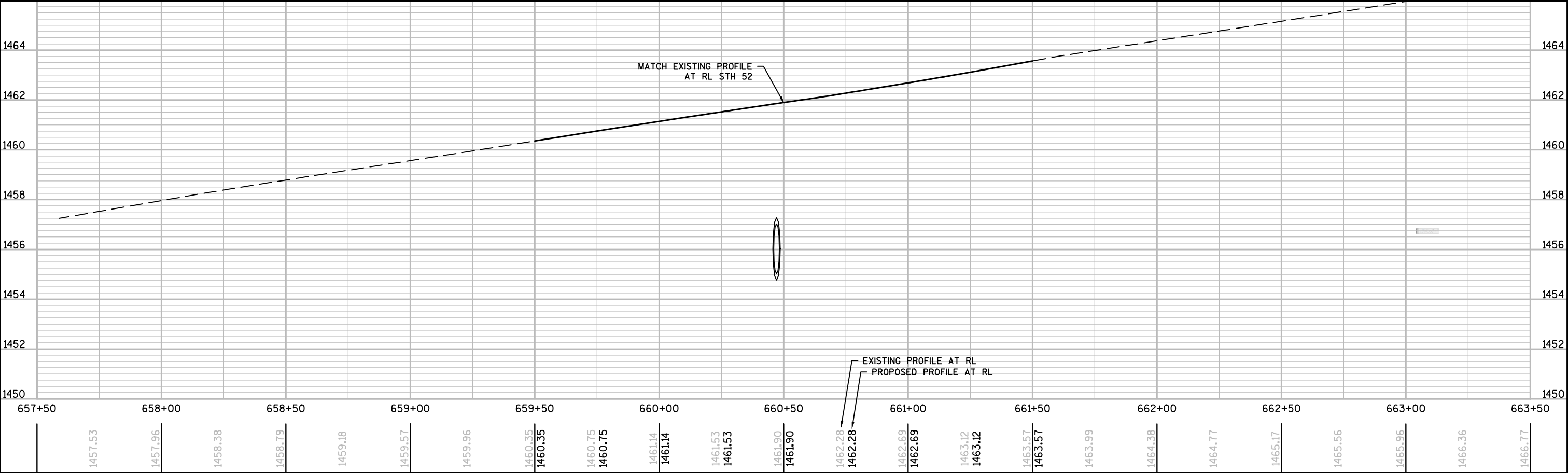


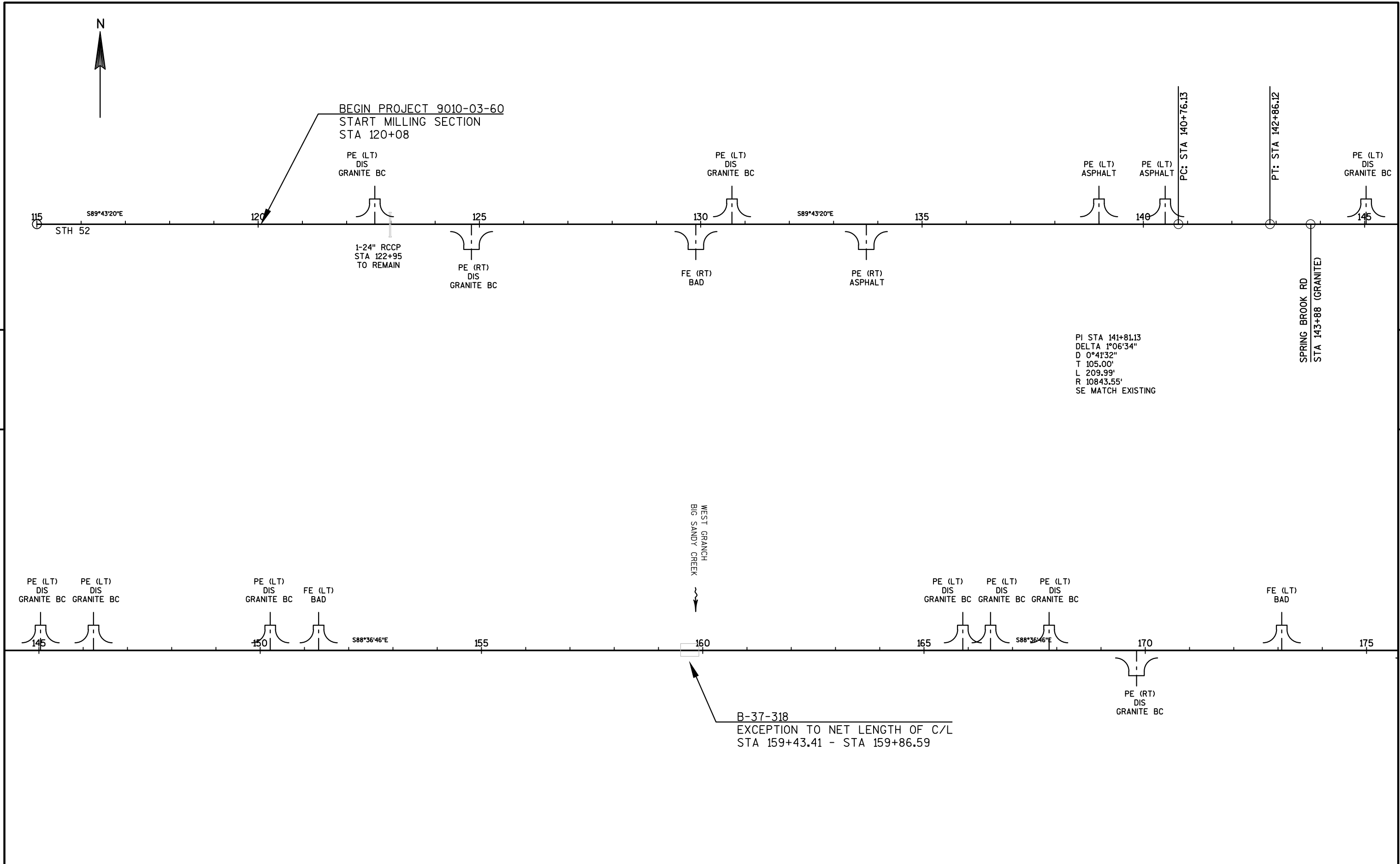
HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, MARATHON COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 NAVD 88 (2012).



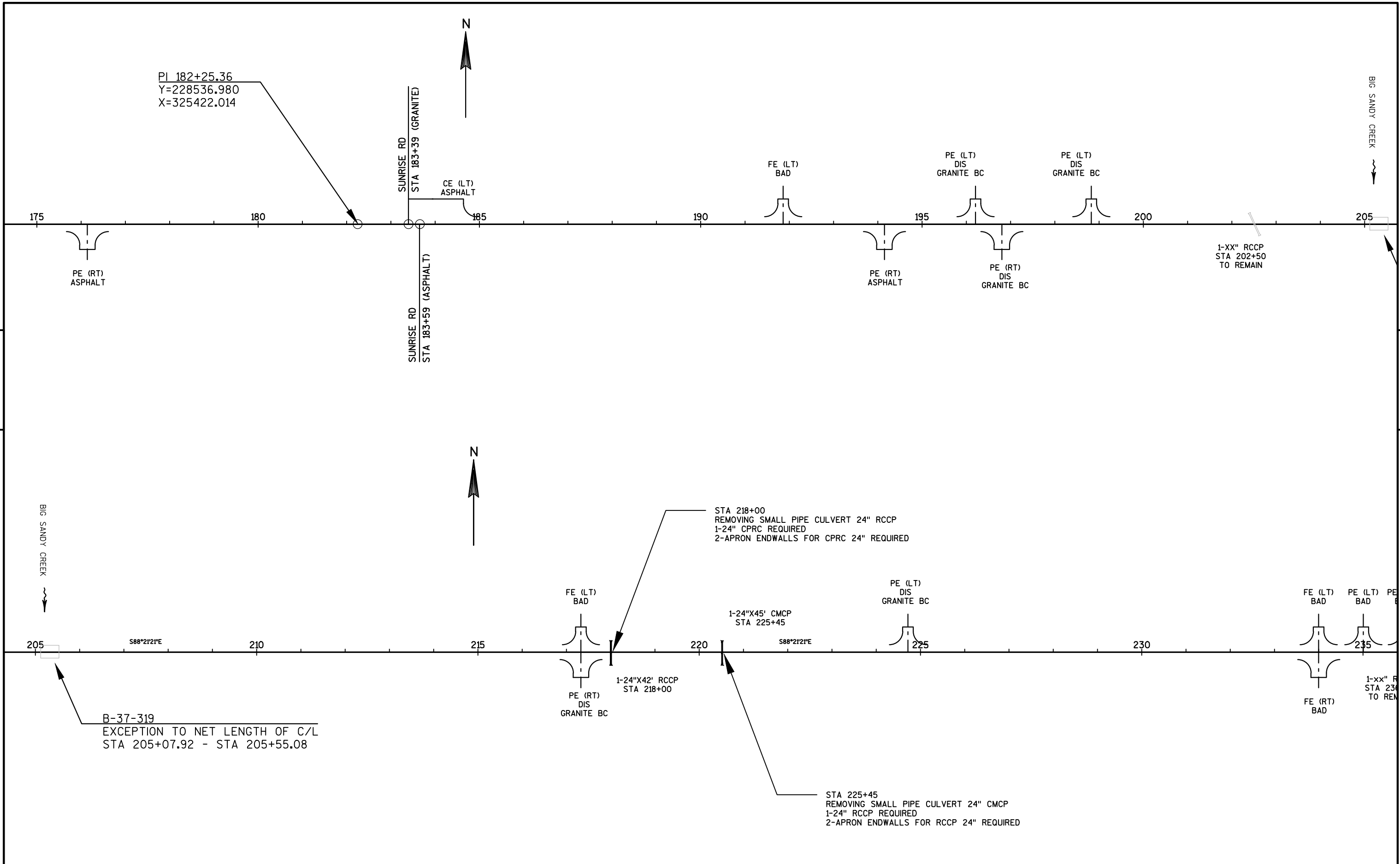
BENCHMARKS				
POINT	STATION	OFFSET	DESCRIPTION	ELEVATION
217	658+57.55	42.36 LT	BM PPOL NEAR SEC COR	1460.73
218	662+01.39	42.77 LT	BM PPOL 1457	1461.91

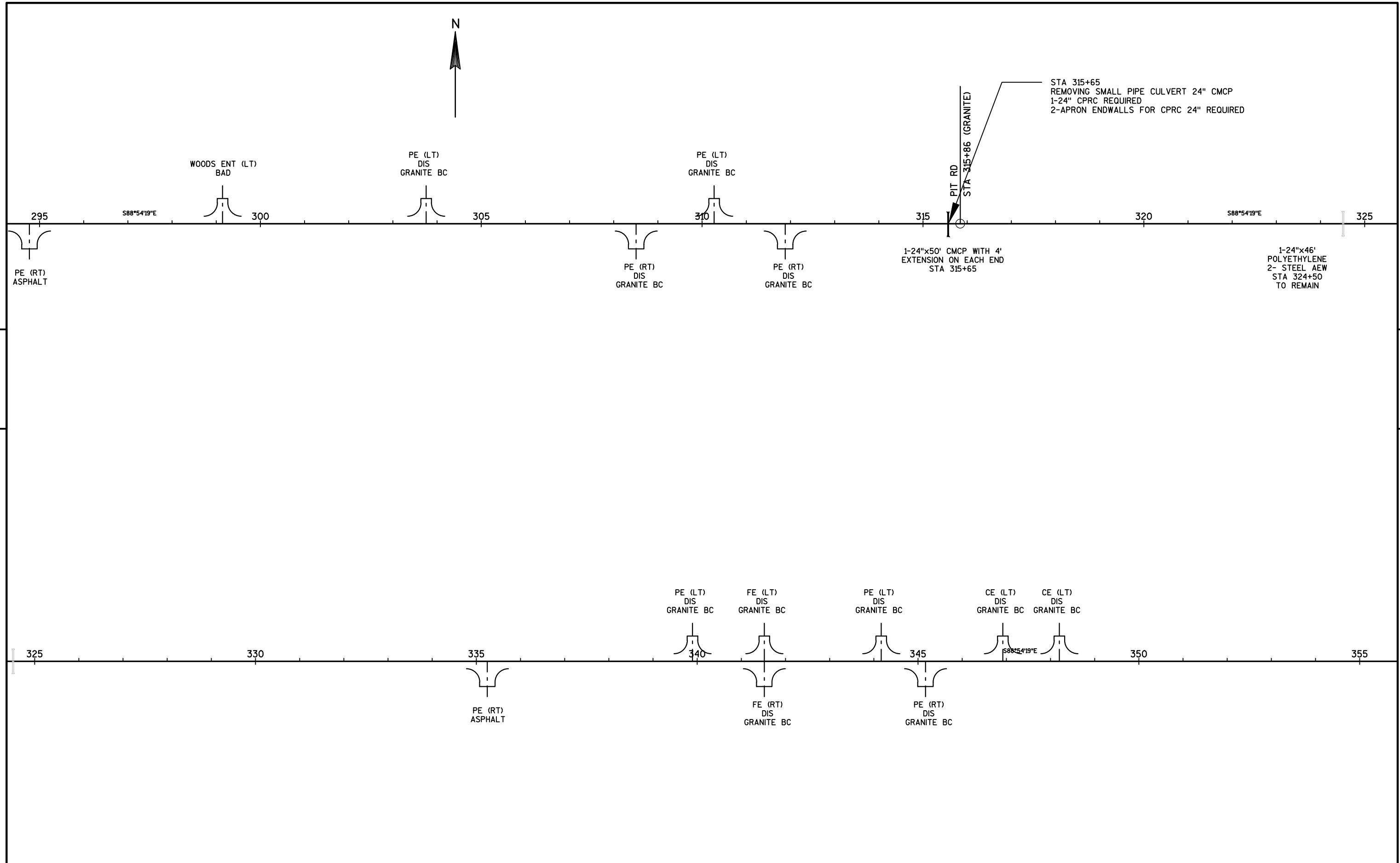




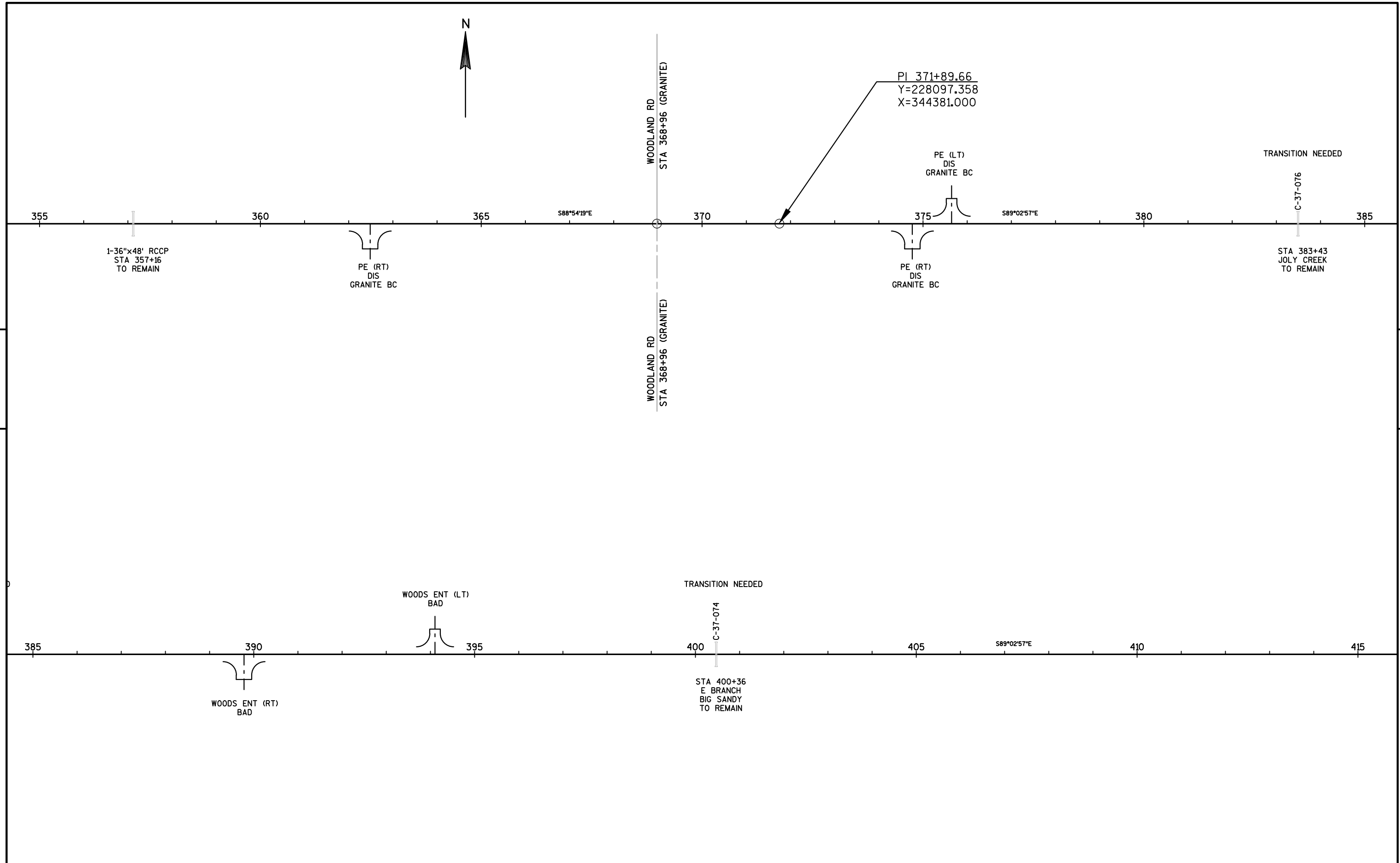
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PROJECT NO:9010-03-60	HWY:STH 52	COUNTY:MARATHON/SHAWANO	LINE DIAGRAM	SHEET	E
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PROJECT NO: 9010-03-60	HWY: STH 52	COUNTY: MARATHON/SHAWANO	LINE DIAGRAM	SHEET	E
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STA 421+00 RT
BEGIN DITCH CLEANING

MILL RD
STA 421+75 (GRANITE)

1-52"x36"x51" CSPA
STA 422+20
TO REMAIN

FE (RT)
BAD

PE (RT)
BAD

STA 430+00 RT
END DITCH CLEANING

WOODS ENT (LT)
BAD

S89°02'57"E

PI 447+87.43
Y=227921.288
X=351977.724

WOODS ENT (LT)
BAD

WOODS ENT (LT)
BAD

STA 460+16
REMOVING SMALL PIPE CULVERT 24" CMCP
1-24" CPRC REQUIRED
2-APRON ENDWALLS FOR CPRC 24" REQUIRED

STA 467+16
REMOVING SMALL PIPE CULVERT 24" CMCP
1-24" CPRC REQUIRED
2-APRON ENDWALLS FOR CPRC 24" REQUIRED

ROCKY RD
STA 474+61 (GRANITE)

WOODS ENT (R)
BAD

PROJECT NO: 9010-03-60

HWY: STH 52

COUNTY: MARATHON/SHAWANO

LINE DIAGRAM

SHEET

E

FILE NAME : N:\PDS\C3D\90100330\SHEETSPLAN\050401_LD.DWG
LAYOUT NAME - ****

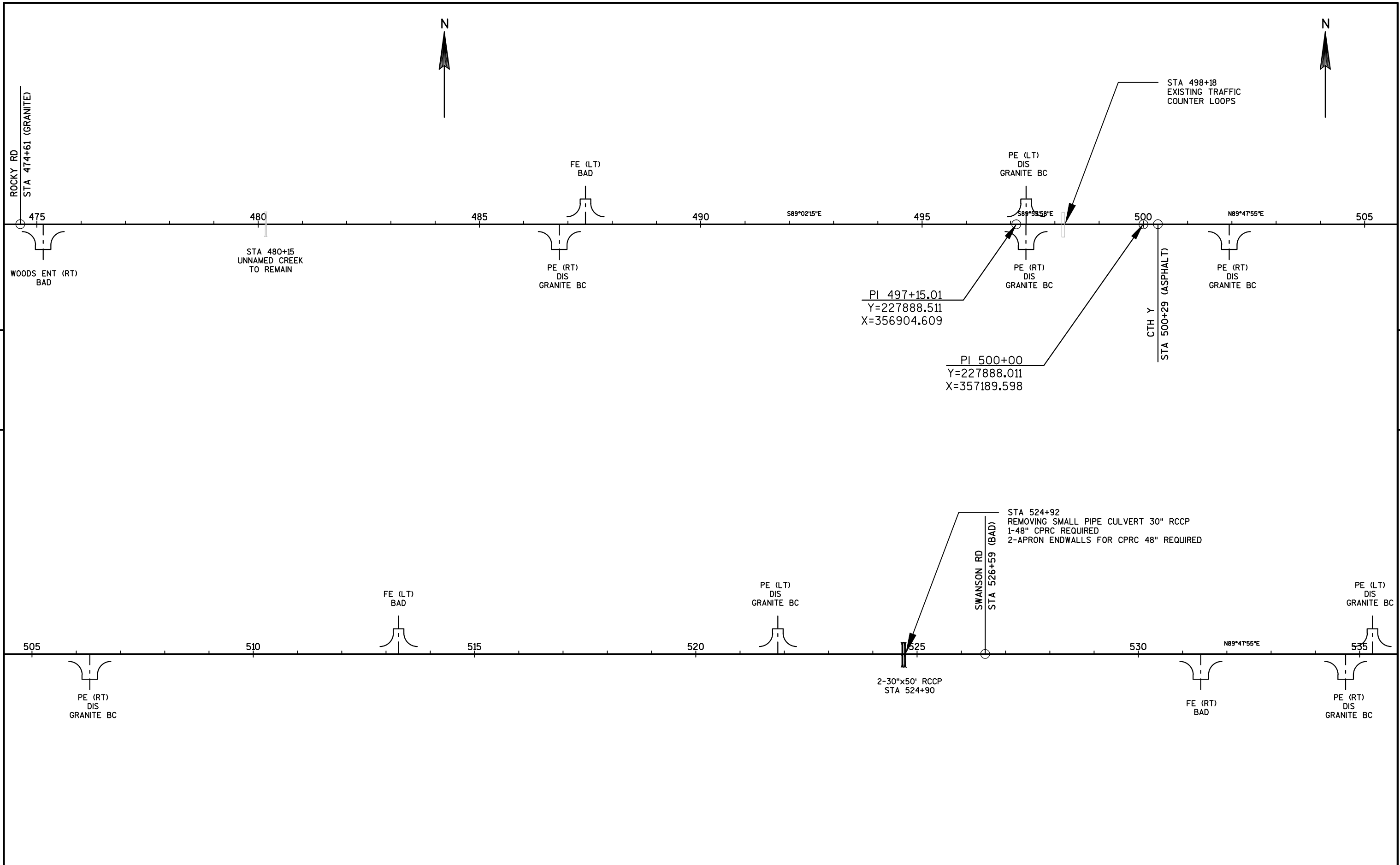
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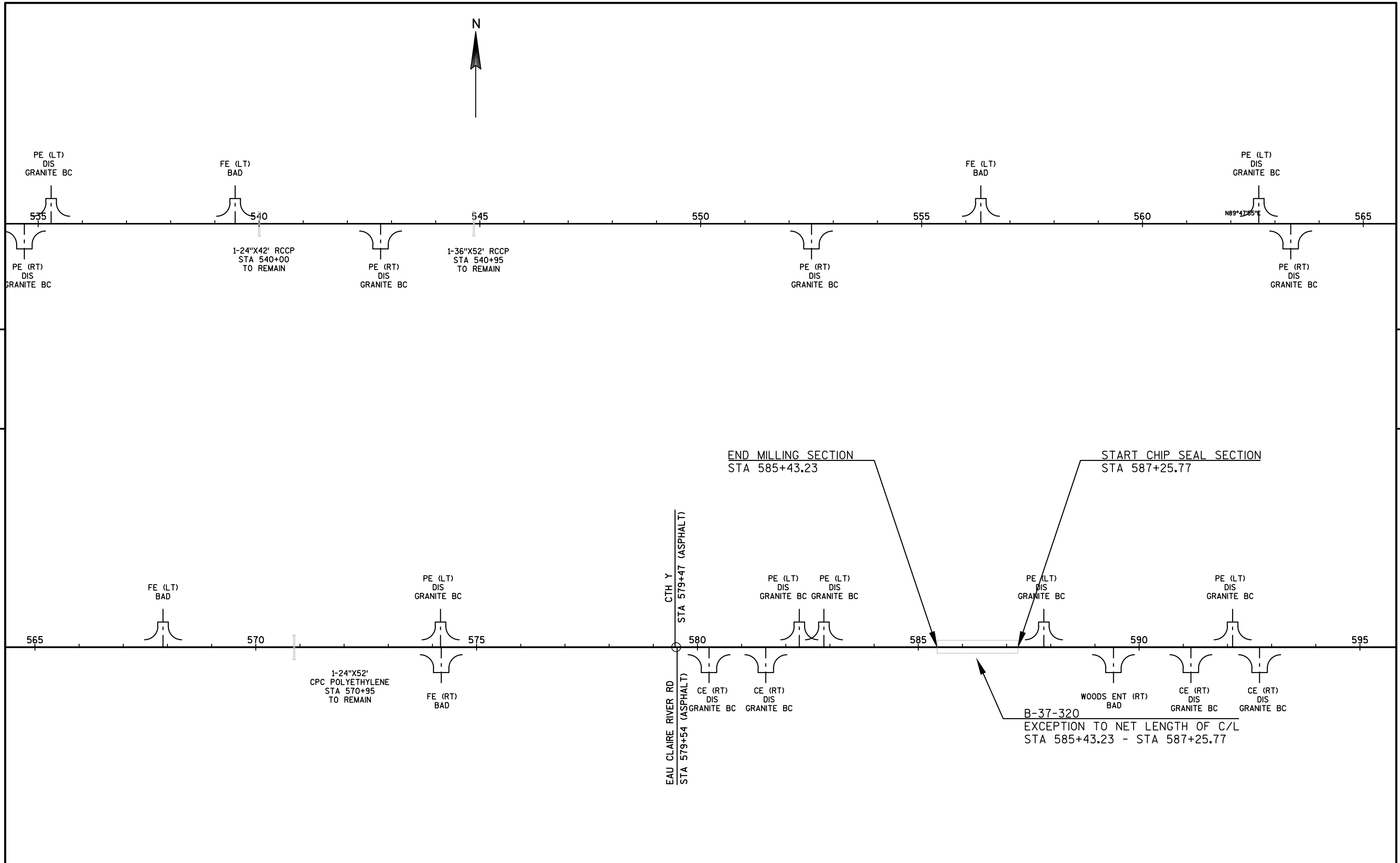
PLOT BY : OETTINGER, JEFFERY M

PLOT NAME :

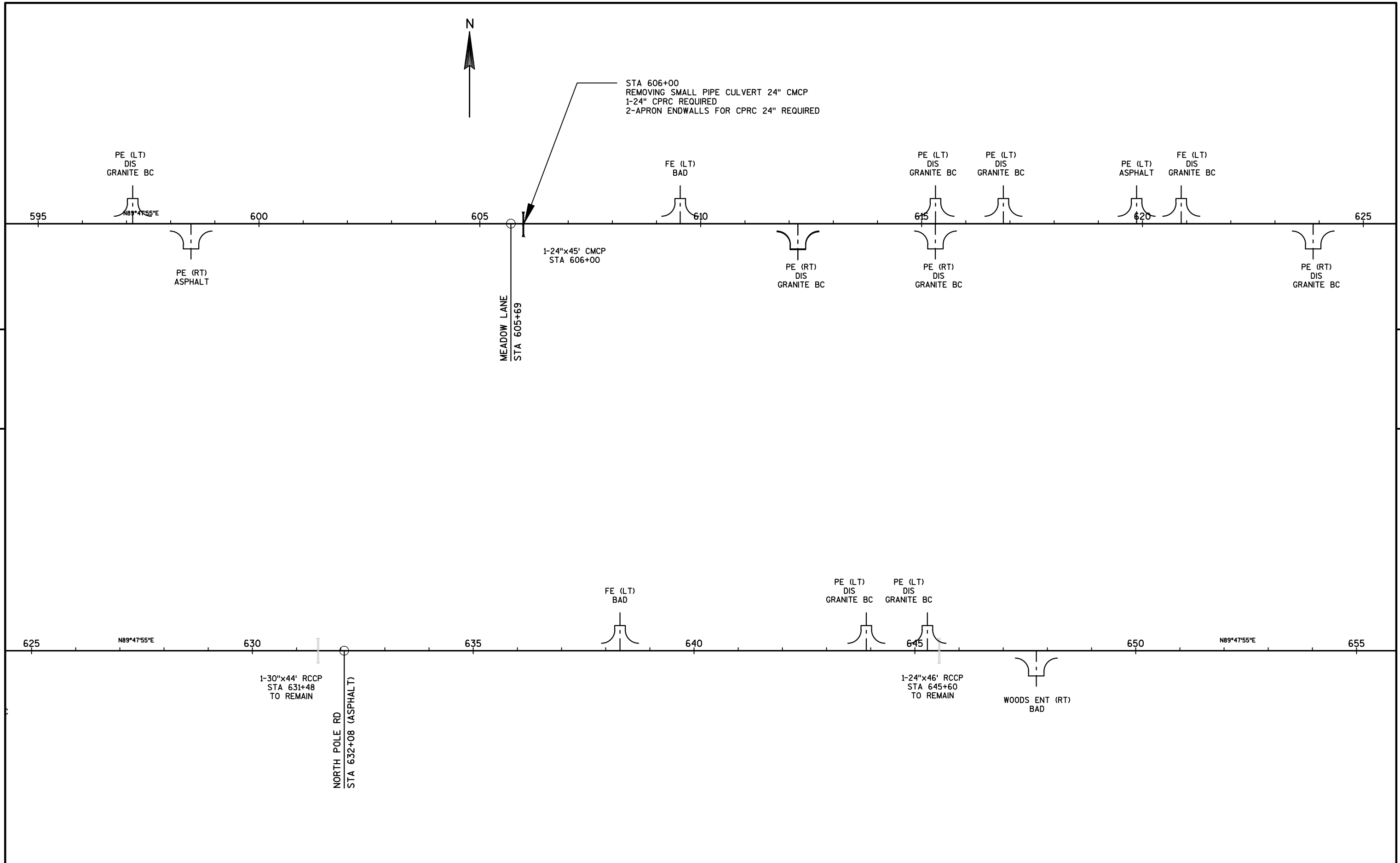
PLOT SCALE : 1 IN:200 FT

WISDOT/CADDs SHEET 44

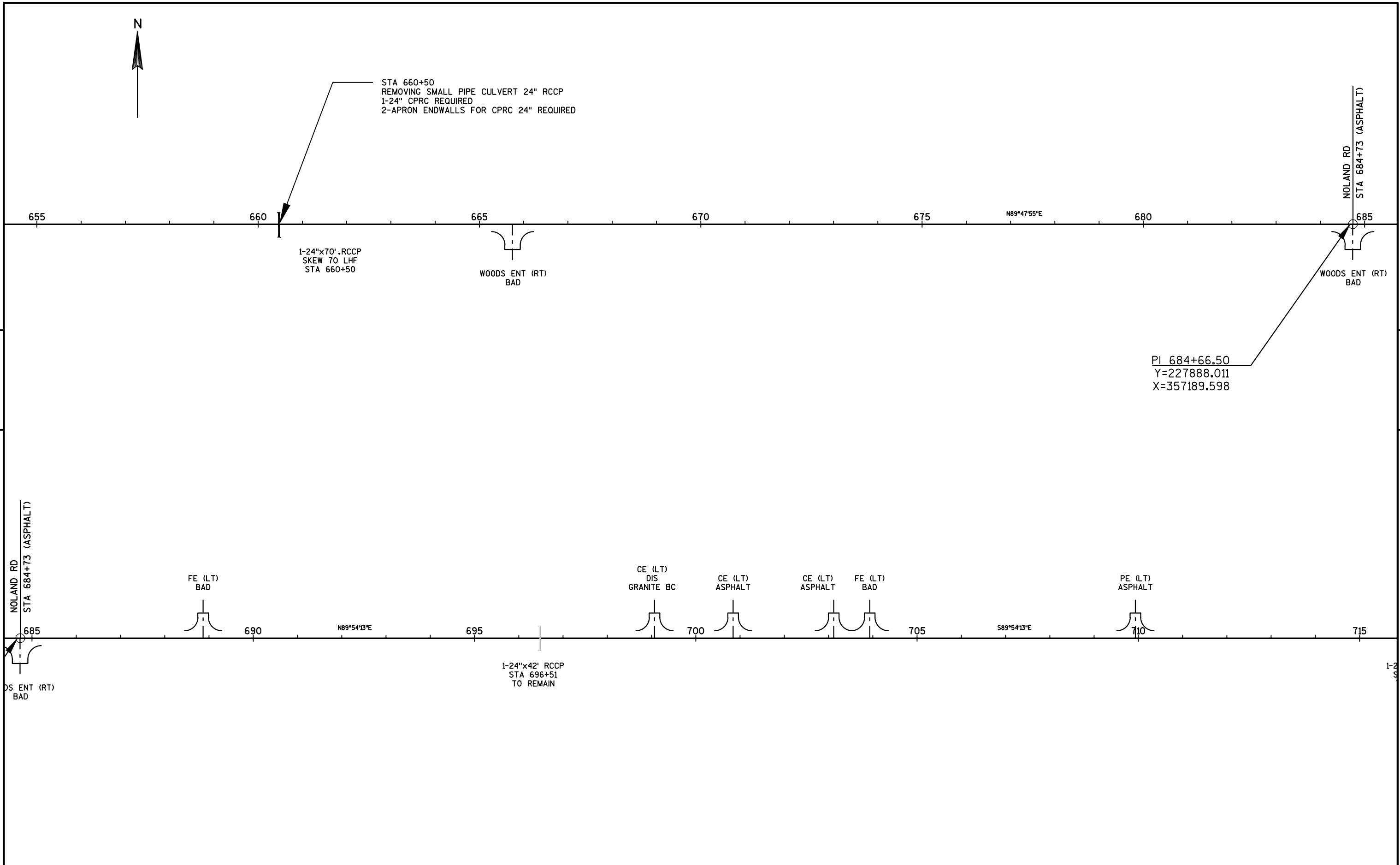




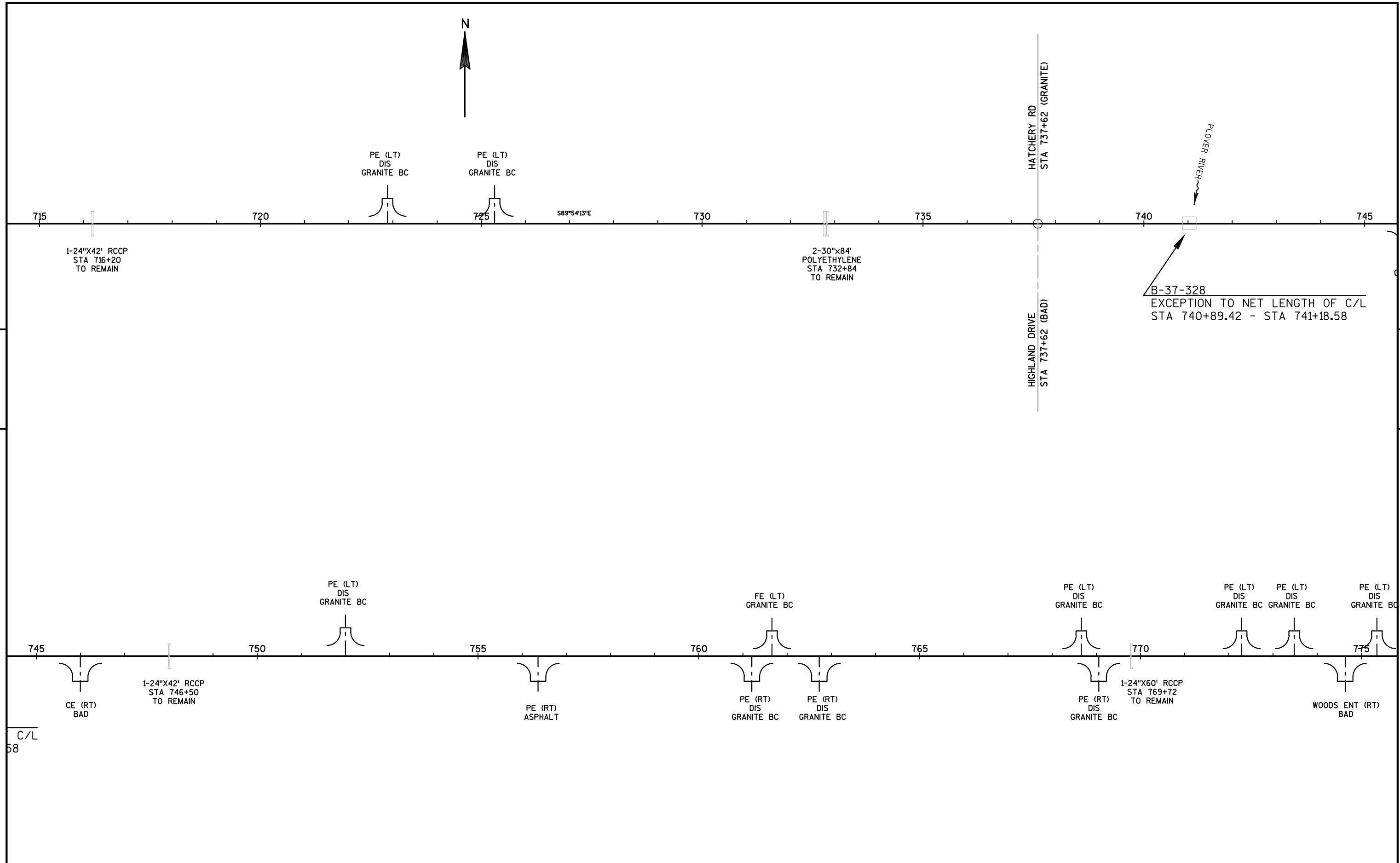
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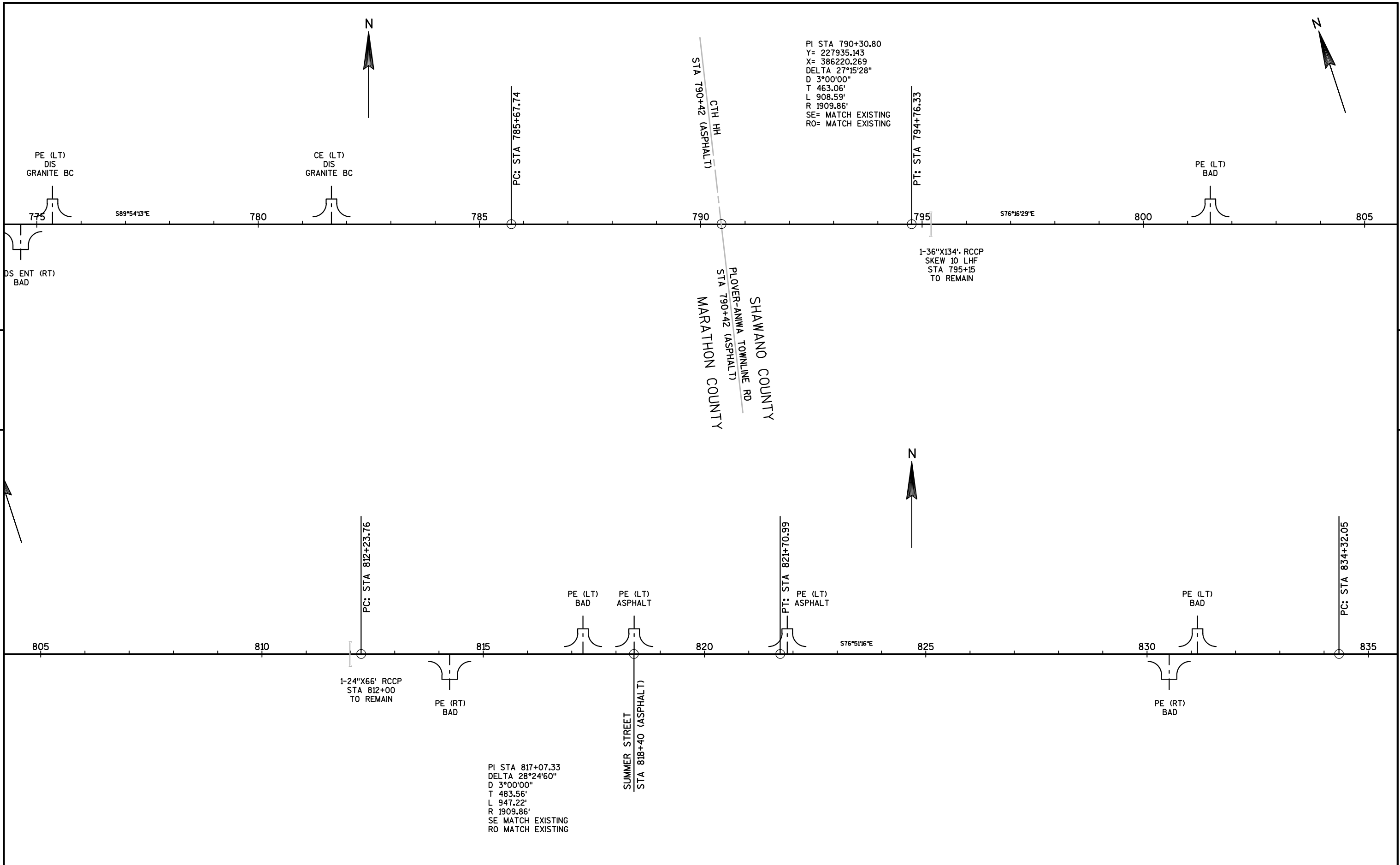
PROJECT NO:9010-03-60	HWY:STH 52	COUNTY:MARATHON/SHAWANO	LINE DIAGRAM	SHEET	E
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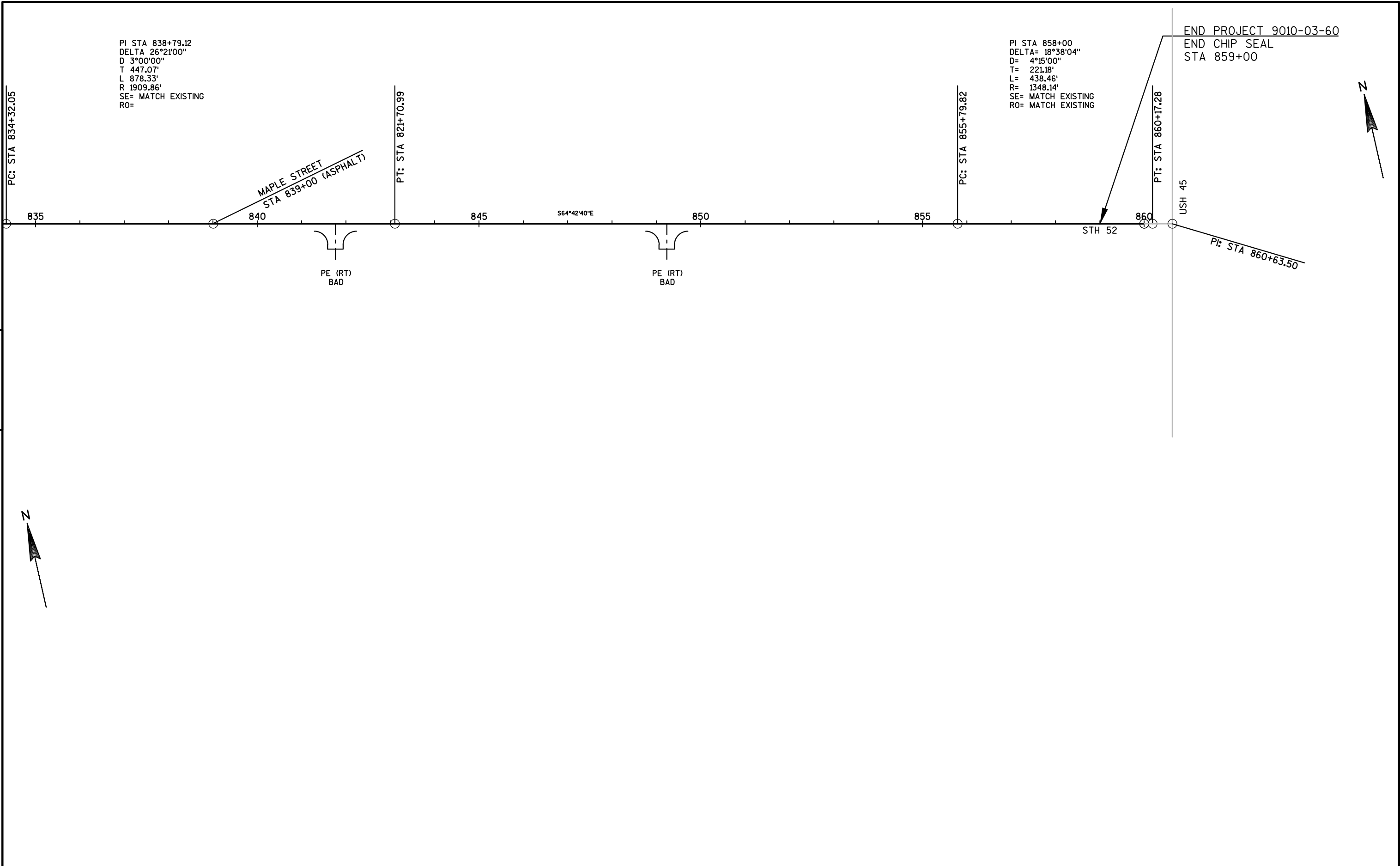
PROJECT NO: 9010-03-60	HWY: STH 52	COUNTY: MARATHON/SHAWANO	LINE DIAGRAM	SHEET	E
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PROJECT NO: 9010-03-60	HWY: STH 52	COUNTY: MARATHON/SHAWANO	LINE DIAGRAM	SHEET	E
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PROJECT NO:9010-03-60	HWY:STH 52	COUNTY:MARATHON/SHAWANO	LINE DIAGRAM	SHEET	E
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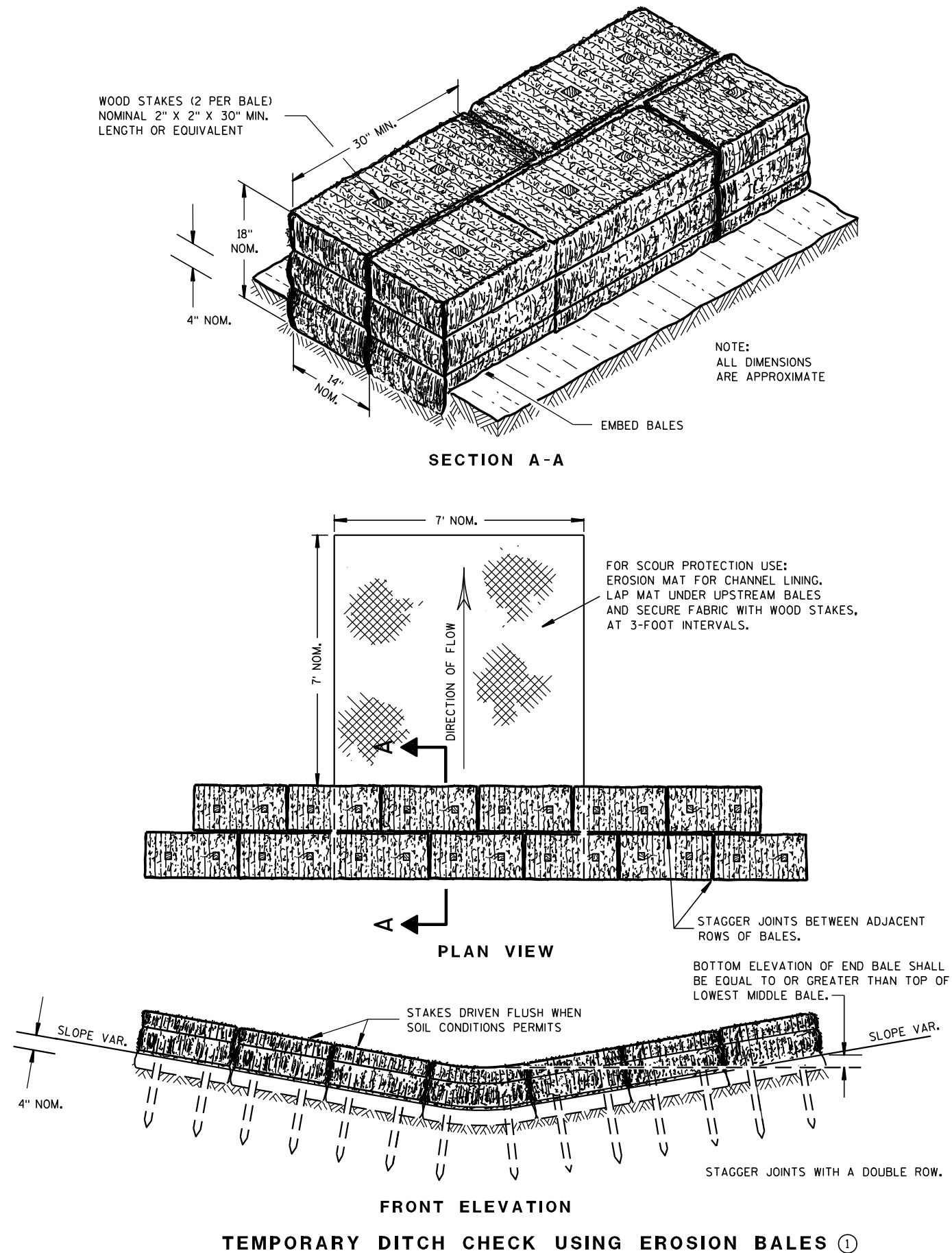


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Standard Detail Drawing List

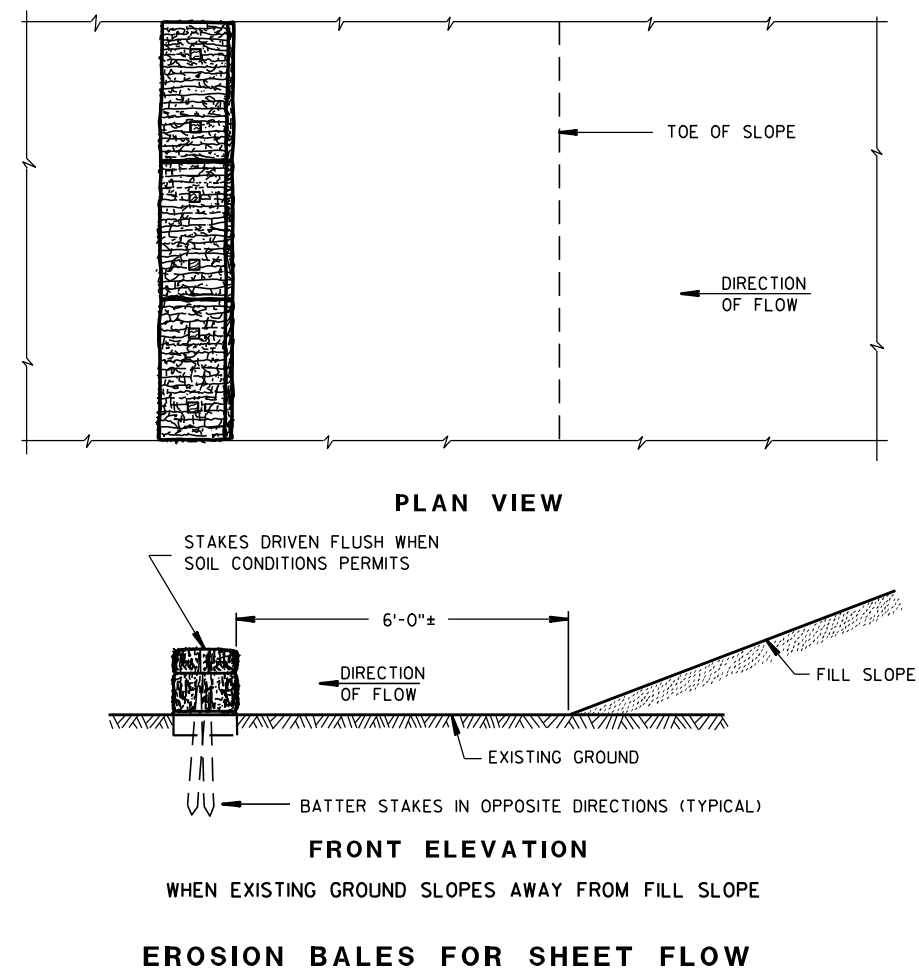
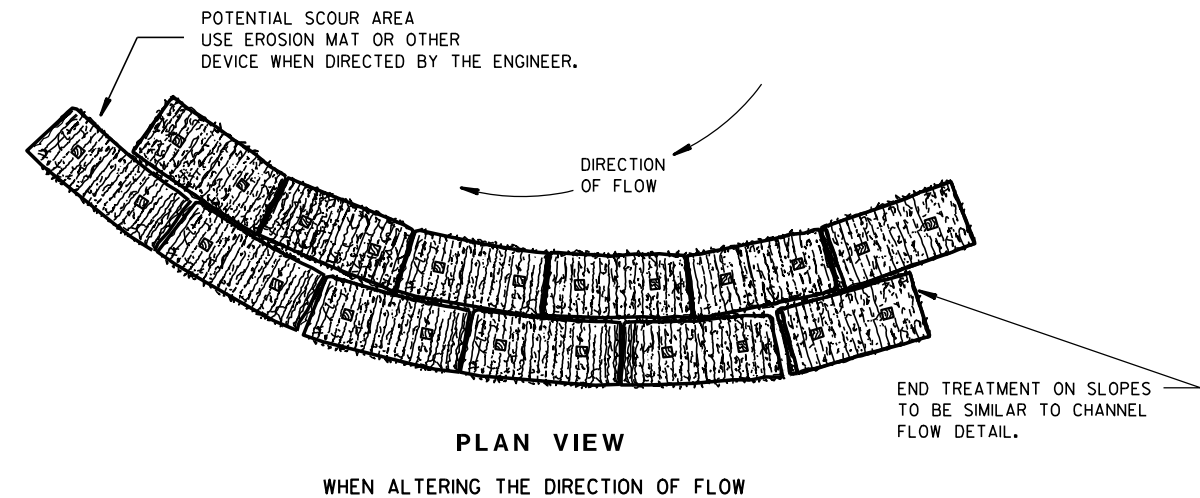
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
09A01-13A	AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND D AND TEE INTERSECTION BYPASS LANE
09A01-13B	AT-GRADE SIDE ROAD INTERSECTION, TYPE "A1" & "A2"
14B29-01	SAFETY EDGE
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C04-03	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C08-17A	LONGITUDINAL MARKING (MAINLINE)
15C12-04	TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
15C35-01A	PAVEMENT MARKING (INTERSECTIONS)
15D06-03	TRAFFIC CONTROL, TWO LANE TWO WAY OPERATION



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

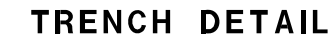
APPROVED

6/04/02
DATE/S/ Beth Canestra
CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA



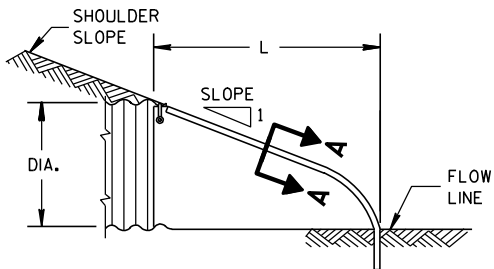
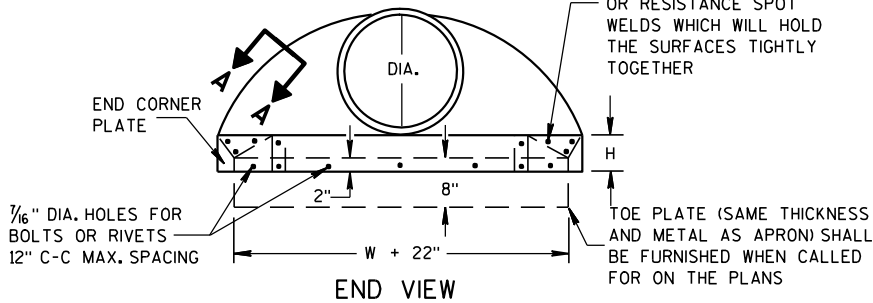
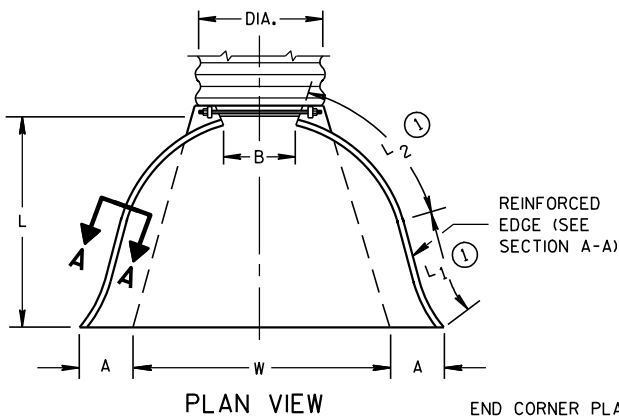
- ① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
- ② FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- ③ WOOD POSTS SHALL BE A MINIMUM SIZE OF 1½" X 1½" 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.



SILT FENCE	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED <u>4-29-05</u> DATE	<u>/S/ Beth Cannestra</u> CHIEF ROADWAY DEVELOPMENT 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")	L ₁ ①	L ₂ 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.

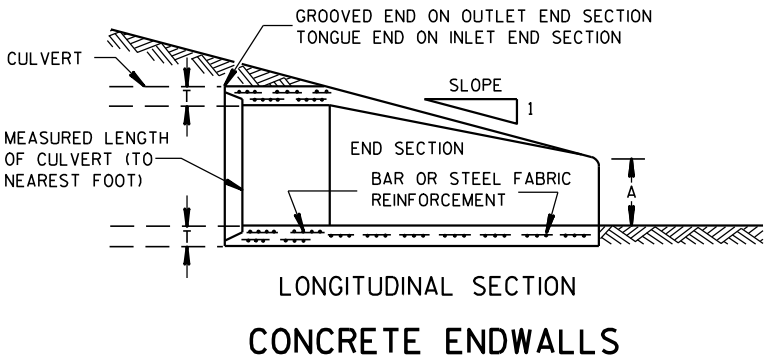
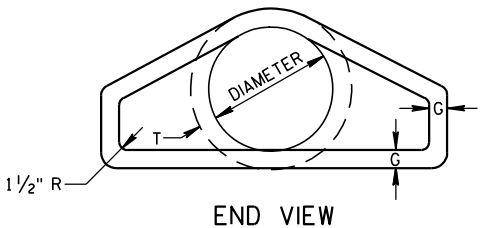
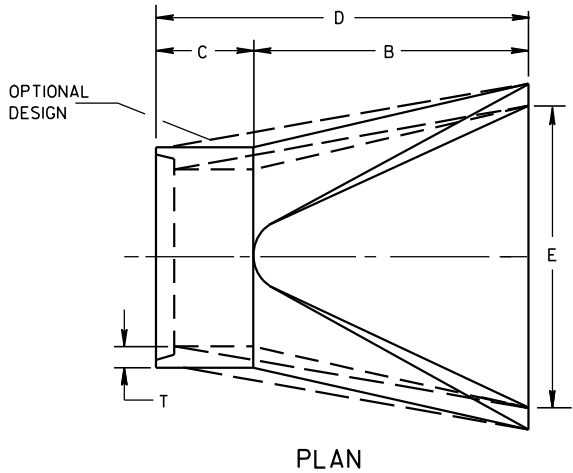
* EXCEPT CENTER PANEL
SEE GENERAL NOTES



SIDE ELEVATION
METAL ENDWALLS

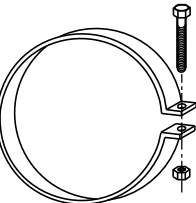
REINFORCED CONCRETE APRON ENDWALLS								
PIPE DIA. (IN.)	DIMENSIONS (Inches)							APPROX. SLOPE
	T	A	B	C	D	E	G	
12	2	4	24	48 ¹ / ₈	72 ¹ / ₈	24	2	3 to 1
15	2 ¹ / ₄	6	27	46	73	30	2 ¹ / ₄	3 to 1
18	2 ¹ / ₂	9	27	46	73	36	2 ¹ / ₂	3 to 1
21	2 ³ / ₄	9	36	37 ¹ / ₂	73 ¹ / ₂	42	2 ³ / ₄	3 to 1
24	3	9 ¹ / ₂	43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

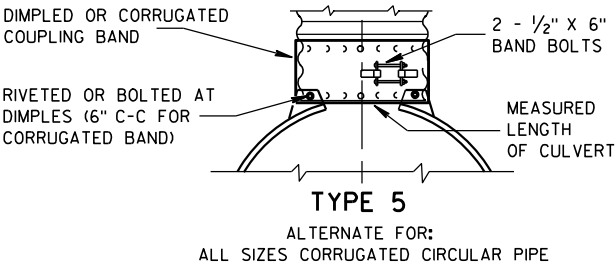
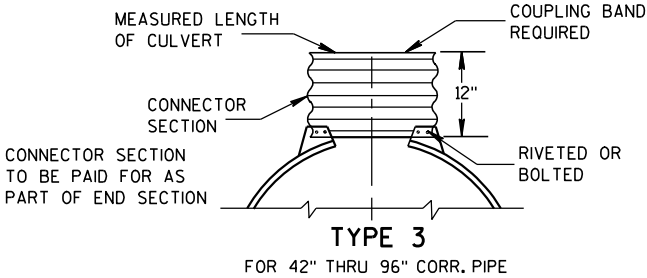
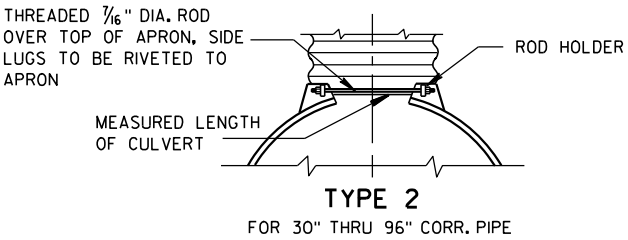
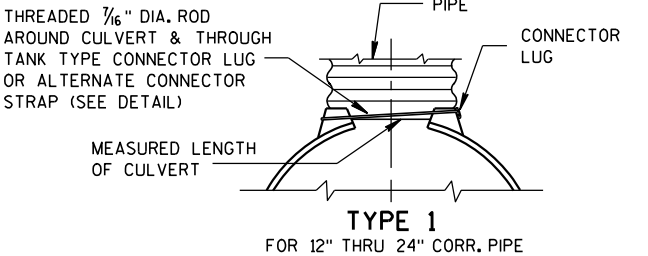


LONGITUDINAL SECTION
CONCRETE ENDWALLS

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



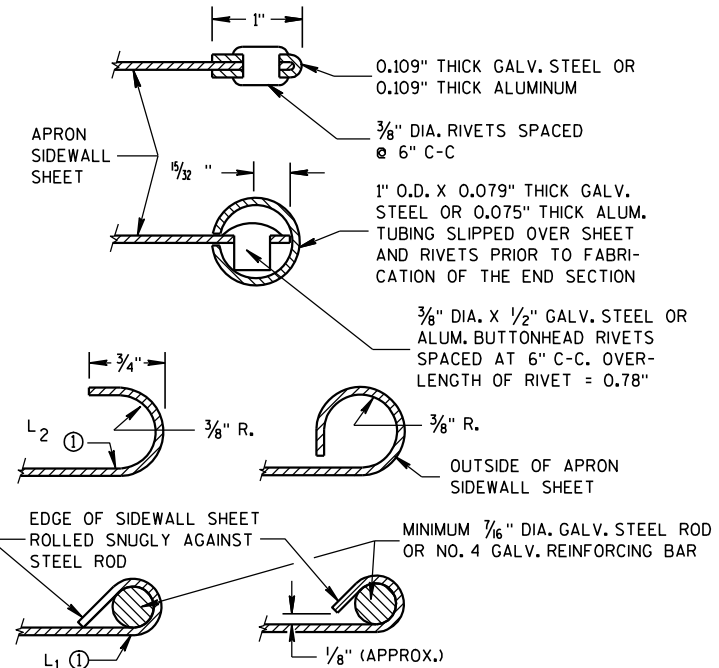
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL, AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

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.

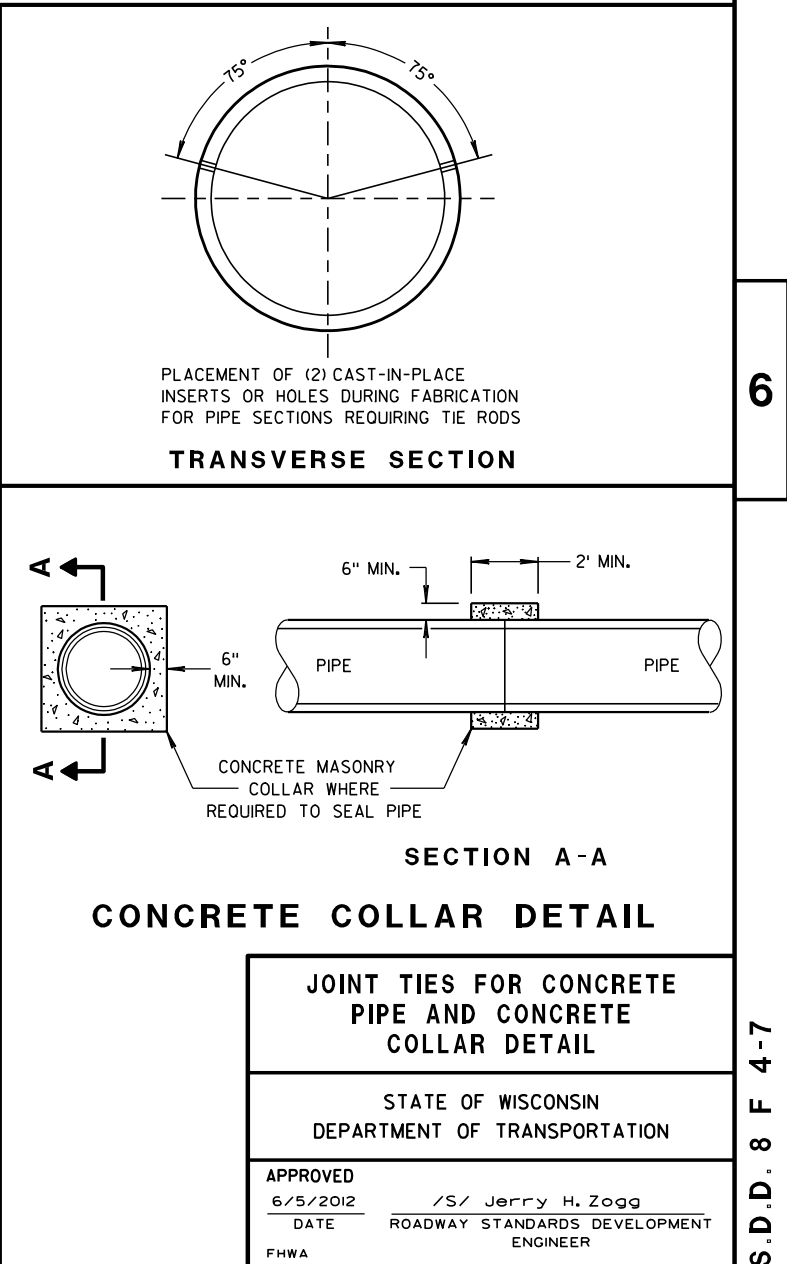
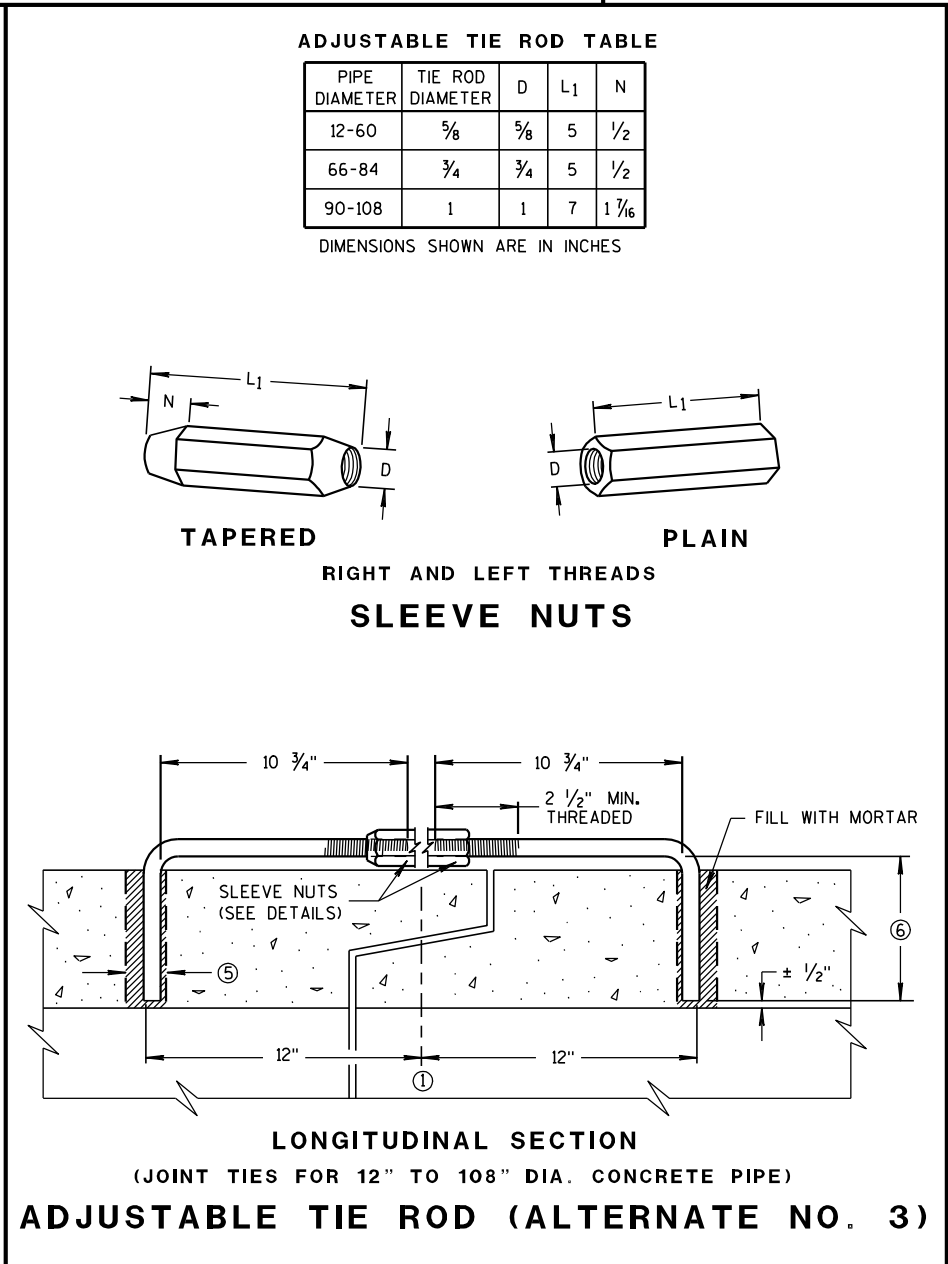
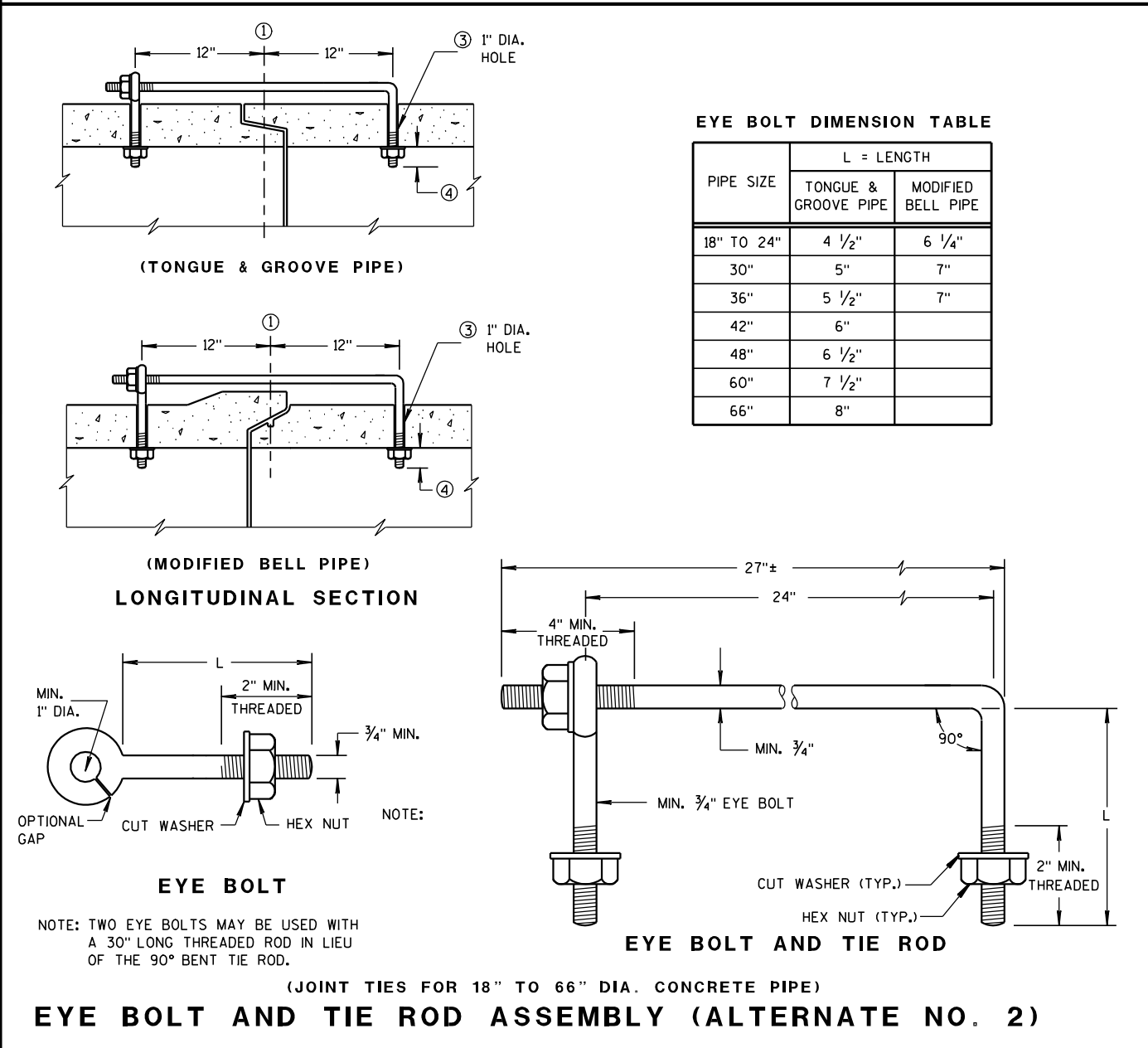
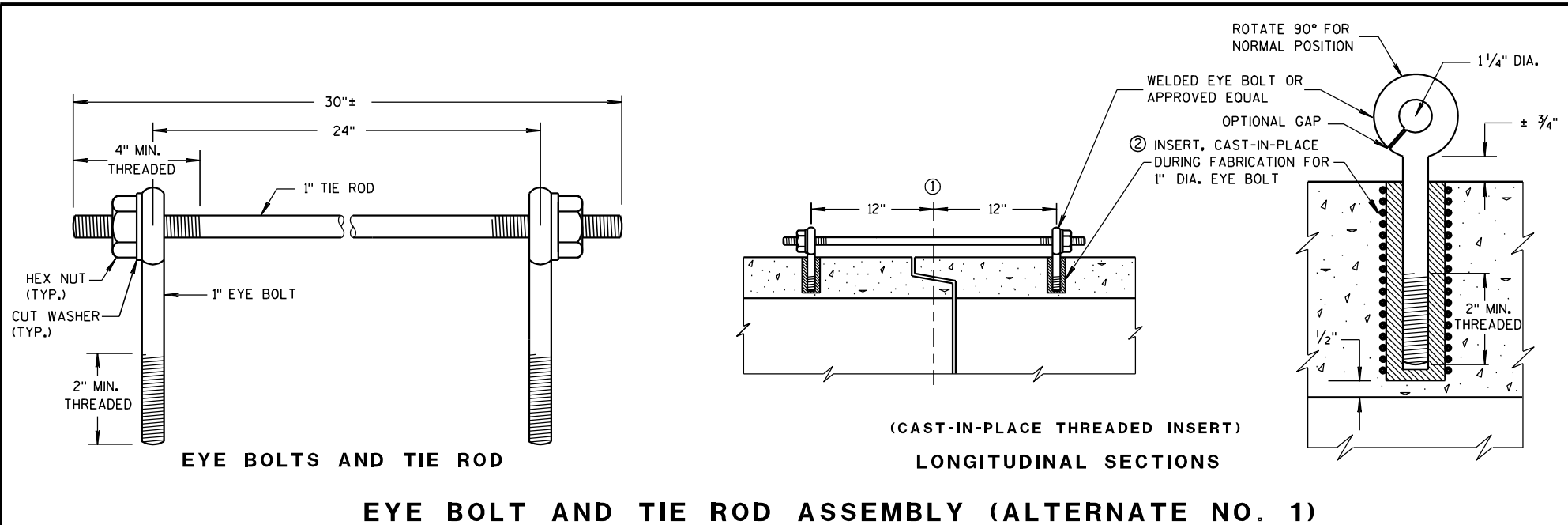
ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT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

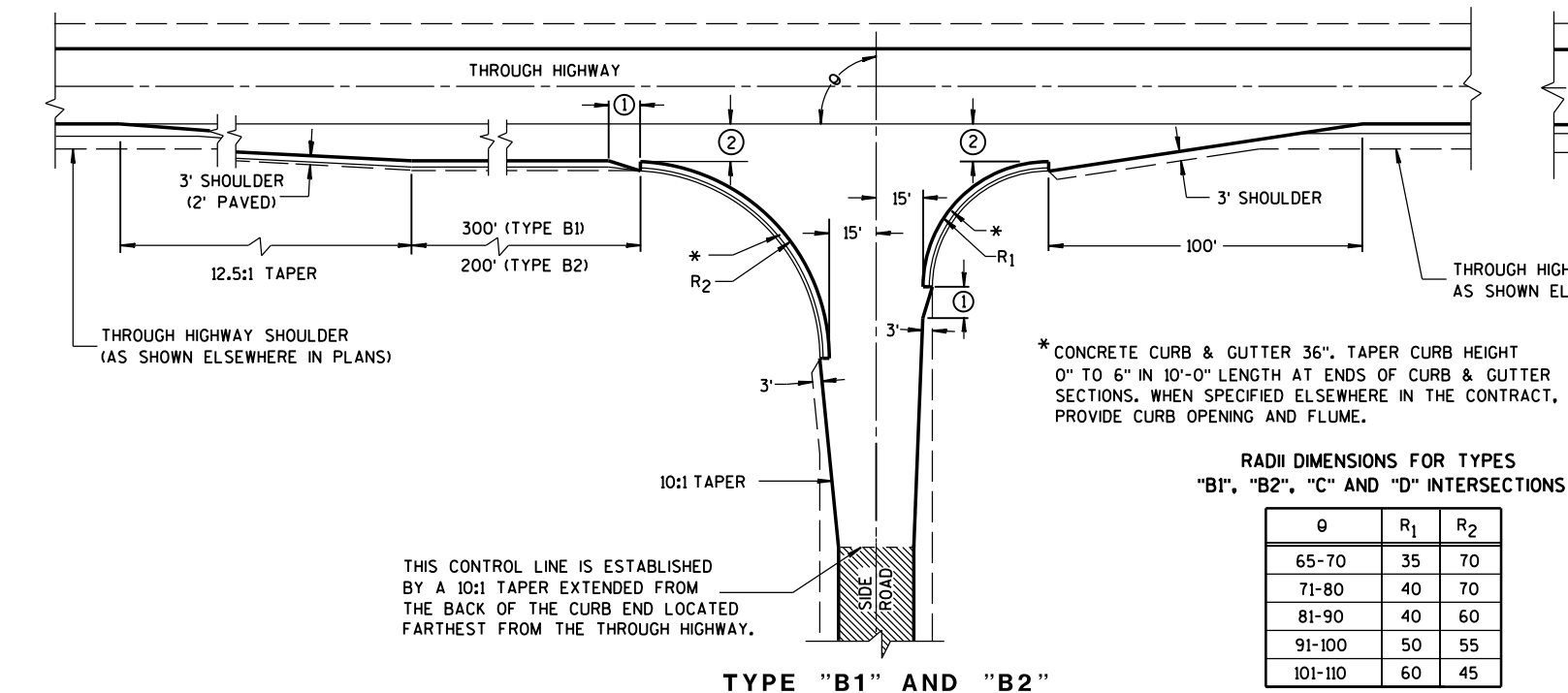
LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. 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 DATE	/S/ Rory L. Rhinesmith CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA	





RADII DIMENSIONS FOR TYPES "B1", "B2", "C" AND "D" INTERSECTIONS

θ	R ₁	R ₂
65-70	35	70
71-80	40	70
81-90	40	60
91-100	50	55
101-110	60	45

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.

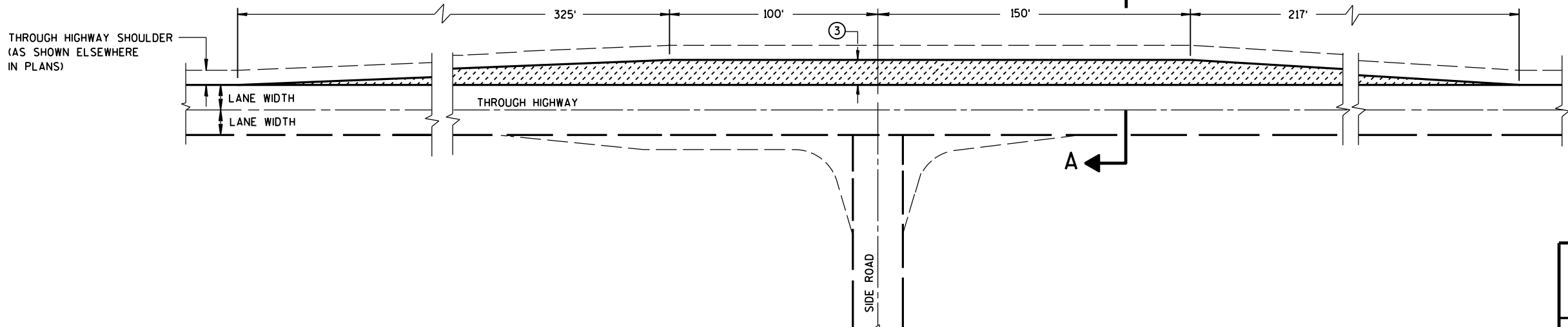
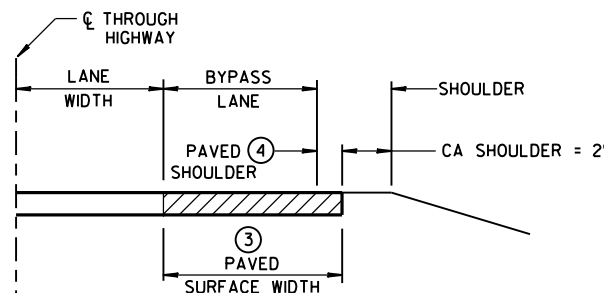
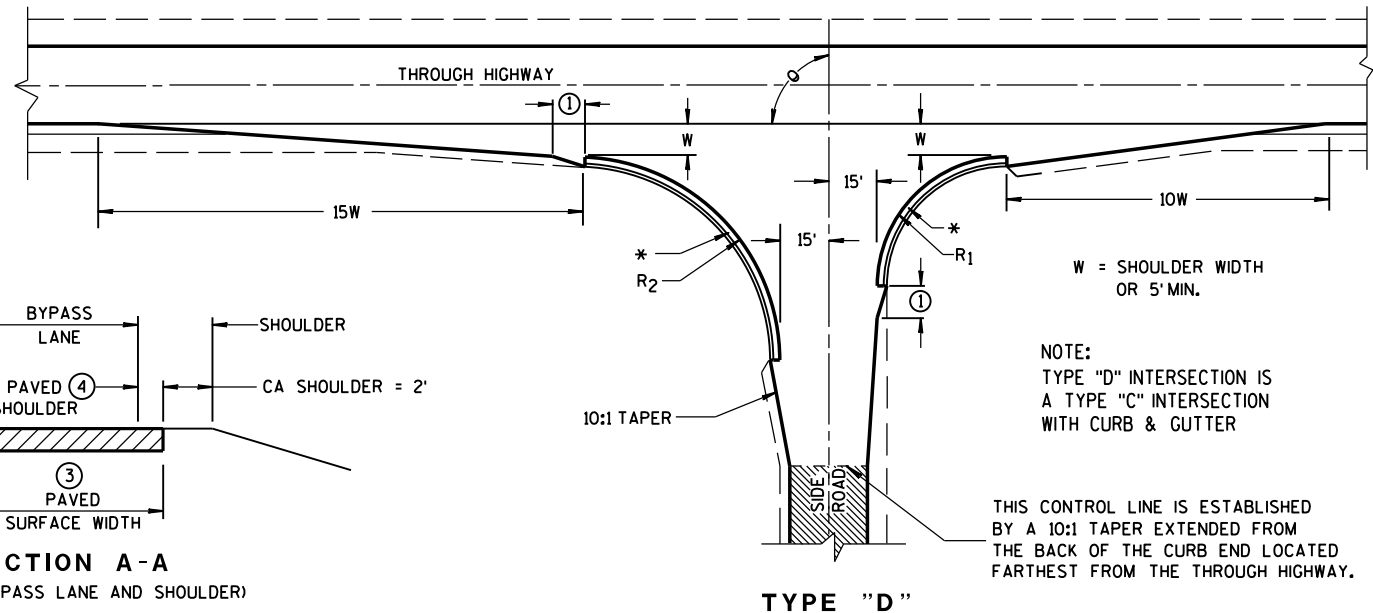
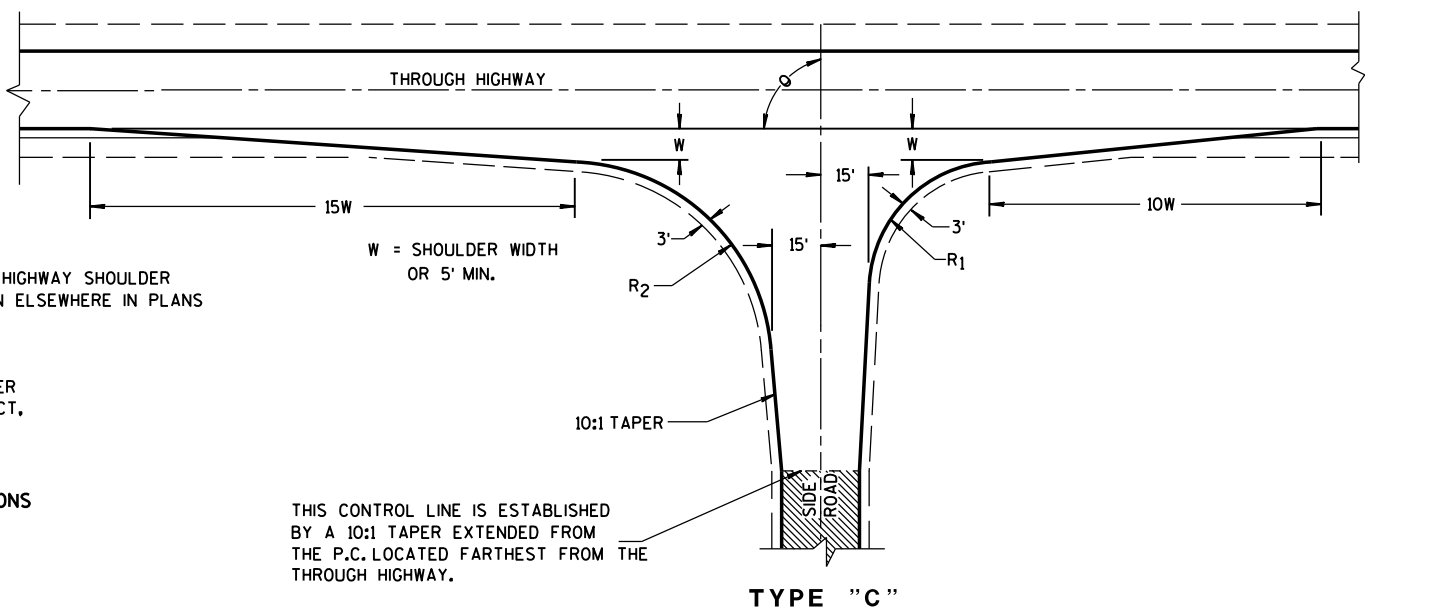
WHEN THE SIDE ROAD IS THE CONSTRUCTION PROJECT, THE INTERSECTION SURFACING SHALL BE THE SAME AS FOR THE PROJECT.

EXISTING PAVED SURFACE

BYPASS LANE

- ① 10-FT TYPICAL.
- ② 12-FT** PLUS ADDITIONAL WIDTH FOR BIKE LANE IF SHOWN ELSEWHERE IN THE PLAN.

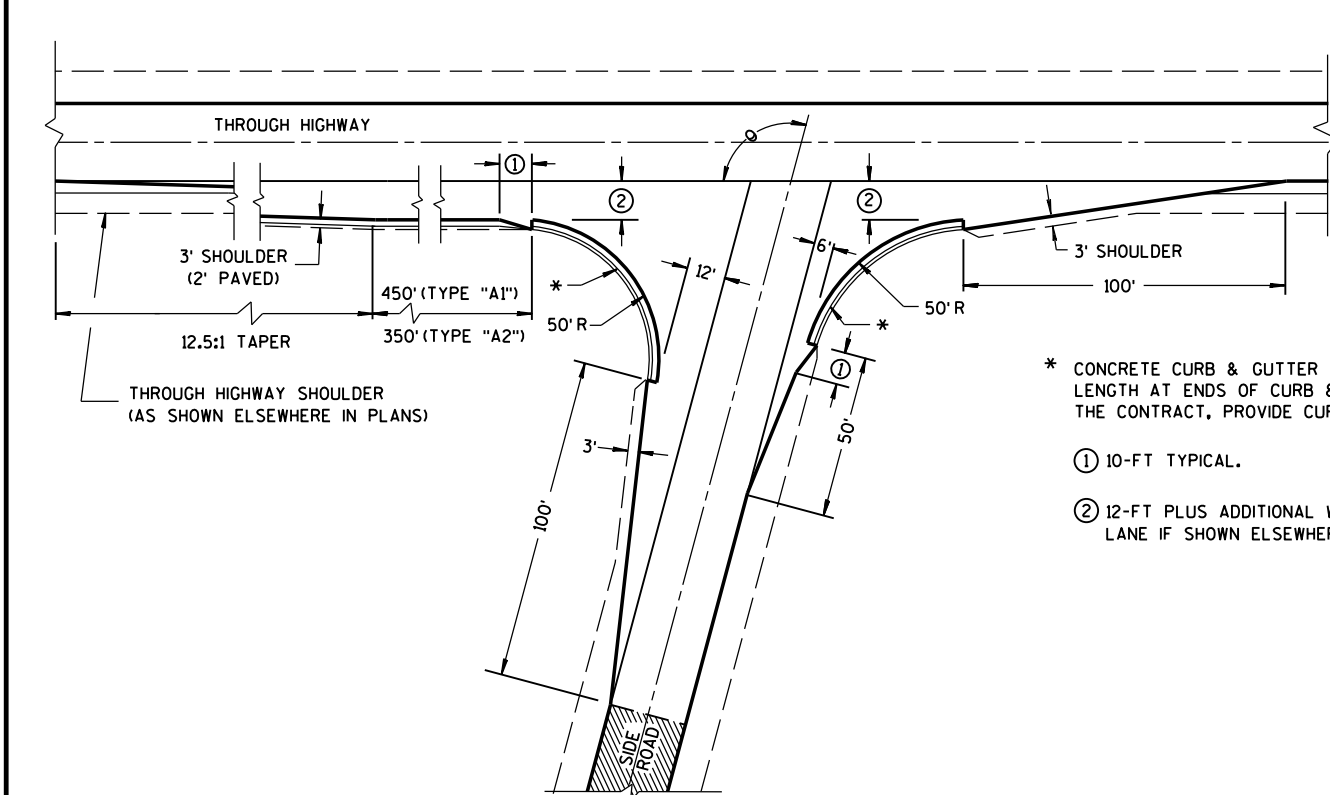
**10-FT MAY BE USED ON TYPE B2 ON RESURFACING PROJECTS IF SPECIFIED IN THE CONTRACT.
- ③ BYPASS LANE PAVED SURFACE WIDTH OUTSIDE OF TRAVEL LANE
-ASPHALT = 12-FT PLUS PAVED SHOULDER WIDTH.
-PC CPNCRETE = 13-FT PLUS PAVED SHOULDER WIDTH.
- ④ BYPASS LANE PAVED SHOULDER WIDTH = THE GREATER OF 1-FT OR THE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



TEE INTERSECTION BYPASS LANE DETAIL

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

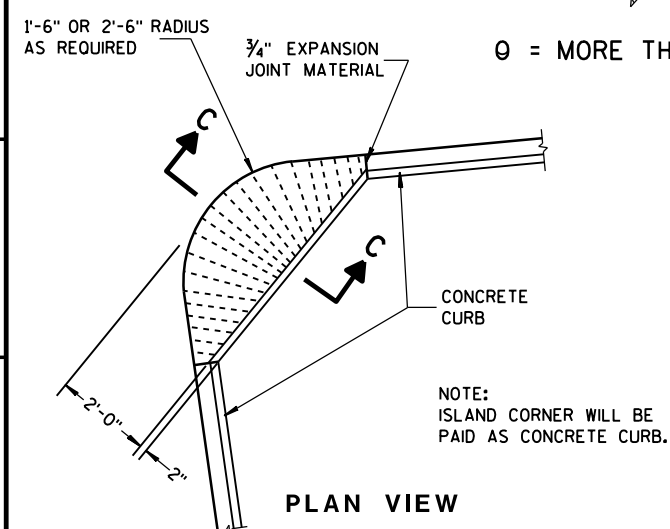
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



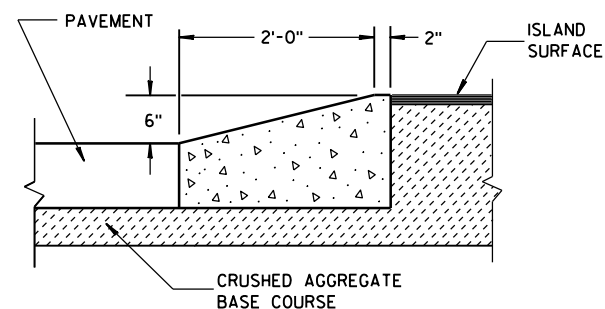
* CONCRETE CURB & GUTTER 36". TAPER CURB HEIGHT 0" TO 6" IN 10'-0" LENGTH AT ENDS OF CURB & GUTTER SECTIONS. WHEN SPECIFIED ELSEWHERE IN THE CONTRACT, PROVIDE CURB OPENING AND FLUME.

① 10-FT TYPICAL.

② 12-FT PLUS ADDITIONAL WIDTH FOR BIKE LANE IF SHOWN ELSEWHERE IN THE PLANS.



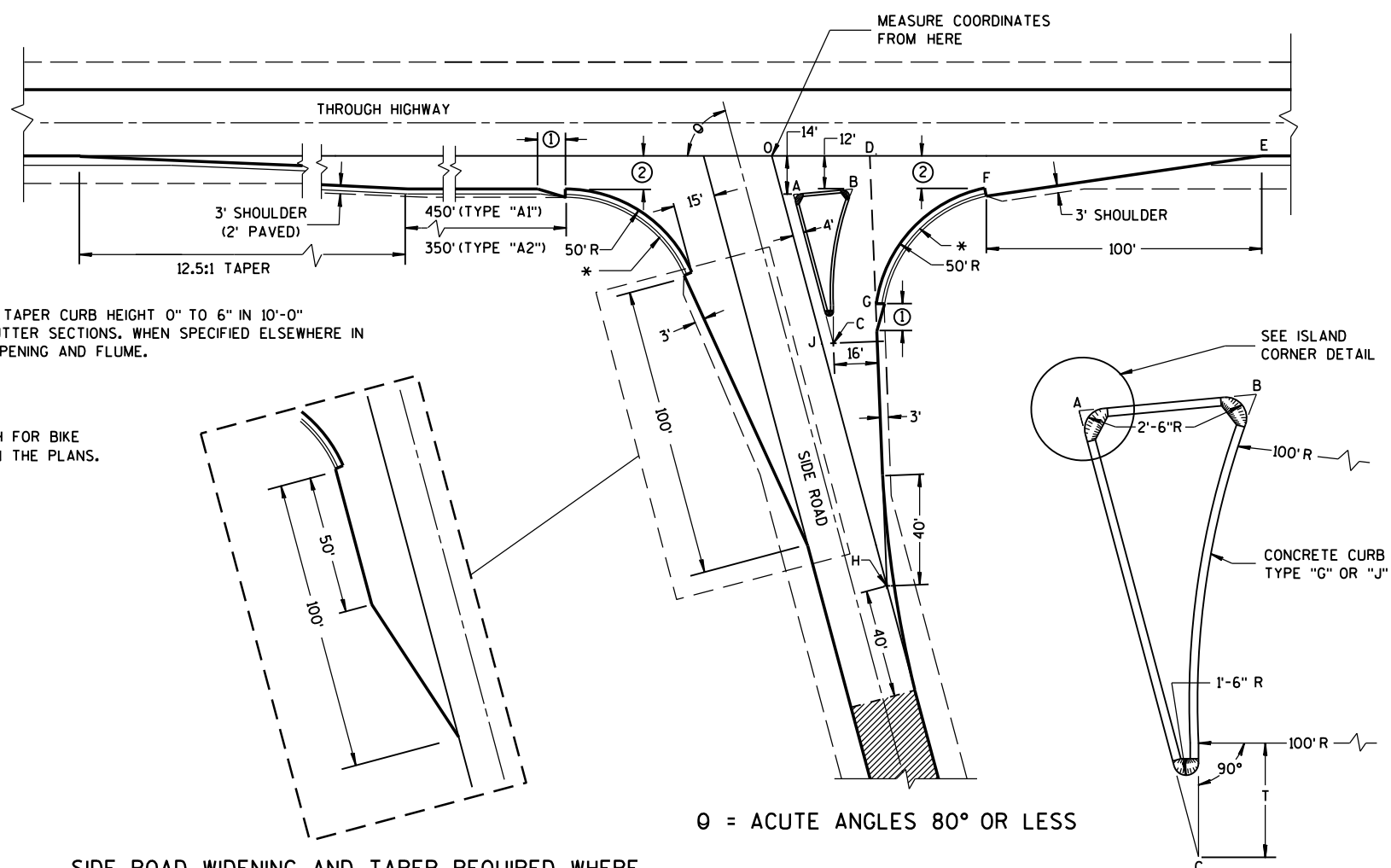
PLAN VIEW



SECTION C-C

ISLAND CORNER DETAIL

(TO BE CONSTRUCTED AT ALL ISLAND CORNERS)



SIDE ROAD WIDENING AND TAPER REQUIRED WHERE THE THROUGH HIGHWAY CARRIES TWO-WAY TRAFFIC
 θ = ACUTE ANGLES 70° OR LESS

TABLE OF DIMENSIONS FOR
 VARIABLE SIDE ROAD INTERSECTION ANGLES

(INTERPOLATE VALUES FOR ANGLES NOT SHOWN)

ANGLE θ DEGREES	COORDINATES IN FEET (MEASURED FROM POINT "O")								LENGTH IN FEET				
	A	B	C	D	E	F	G	H	AB	AC	T	OJ	OH
60	12.7	44.9	46.4	41.9	205.0	104.6	64.0	85.0	32.3	67.4	4.9	85.9	169.9
	-14.0	-12.0	-72.4	0.0	0.0	-12.0	-75.5	-147.1					
65	10.9	39.0	37.8	39.4	196.1	95.7	54.1	70.5	28.2	63.6	8.5	80.9	166.9
	-14.0	-12.0	-71.6	0.0	0.0	-12.0	-71.5	-151.3					
70	9.4	33.9	29.8	37.4	188.3	87.8	45.6	56.1	24.6	59.7	11.5	76.1	164.1
	-14.0	-12.0	-70.1	0.0	0.0	-12.0	-67.5	-154.2					
75	7.9	29.3	22.3	35.7	181.2	80.7	38.2	41.8	21.5	55.8	13.8	71.4	161.4
	-14.0	-12.0	-67.9	0.0	0.0	-12.0	-63.4	-155.9					
80	6.5	25.4	15.6	34.4	174.8	74.4	31.8	27.6	18.9	52.0	15.6	66.9	158.9
	-14.0	-12.0	-65.2	0.0	0.0	-12.0	-59.3	-156.5					

TYPE "A1" & "A2" SIDE ROAD INTERSECTION DETAILS

AT-GRADE SIDE ROAD
 INTERSECTION, TYPE "A1" & "A2"

STATE OF WISCONSIN
 DEPARTMENT OF TRANSPORTATION

APPROVED

12/18/12

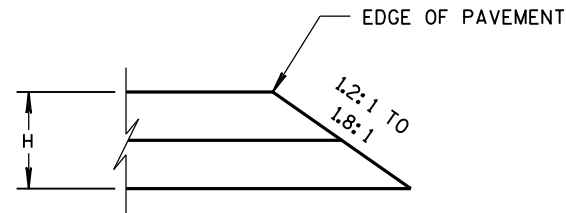
DATE

FHWA

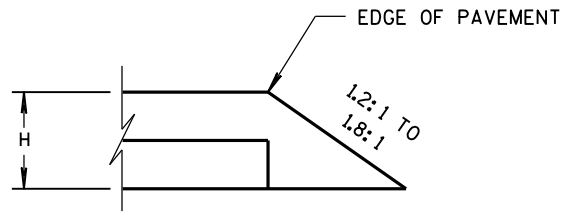
/S/ Jerry H. Zogg

ROADWAY STANDARDS DEVELOPMENT

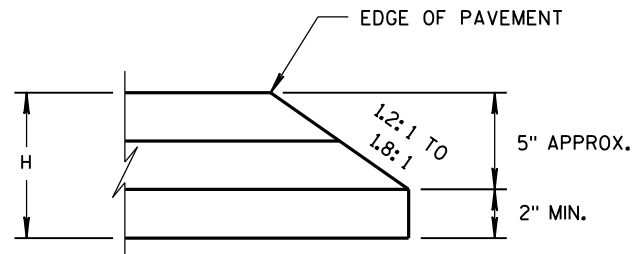
ENGINEER



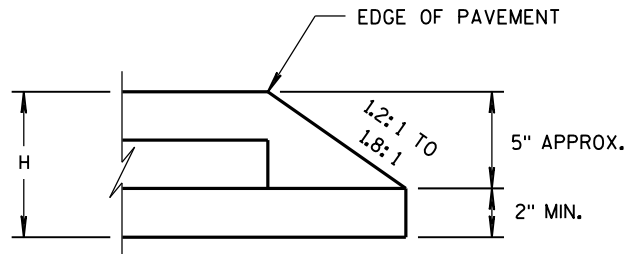
CONSTRUCTED WITH FINAL TWO LAYERS
FOR H 5" OR LESS



CONSTRUCTED WITH FINAL LAYER
FOR H 5" OR LESS

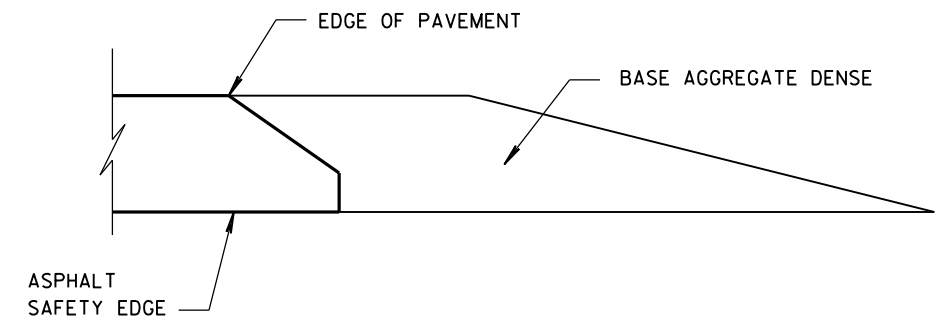


CONSTRUCTED WITH FINAL TWO LAYERS
FOR H GREATER THAN 5"



CONSTRUCTED WITH FINAL LAYER
FOR H GREATER THAN 5"

HMA PAVEMENT AND HMA OVERLAYS



FINISHED SHOULDER AGGREGATE PLACEMENT

SAFETY EDGE_{SM}

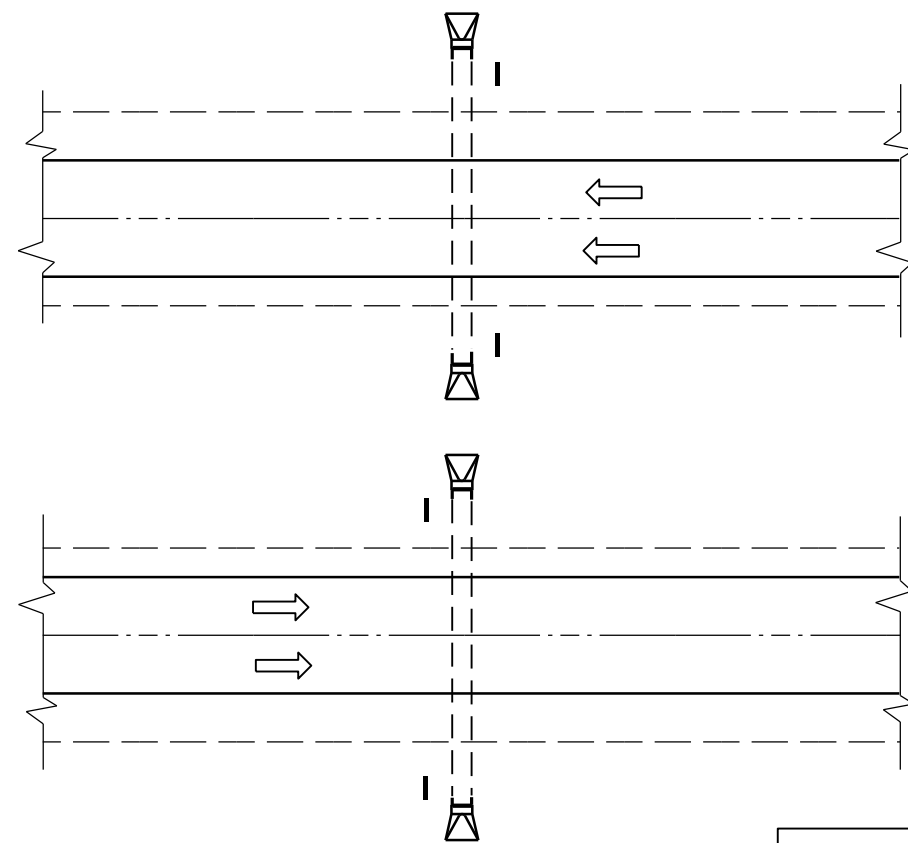
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

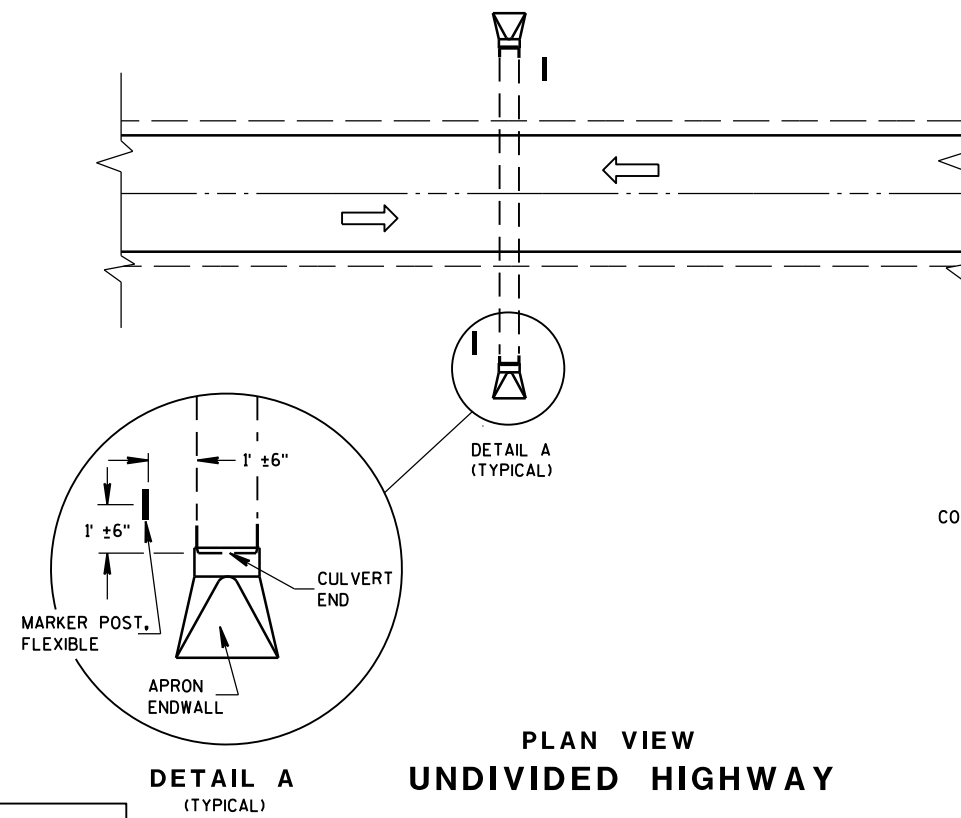
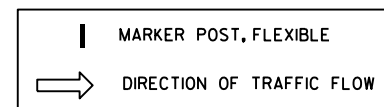
11/30/2012
DATE

FHWA

/s/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT
ENGINEER



PLAN VIEW
DIVIDED HIGHWAY

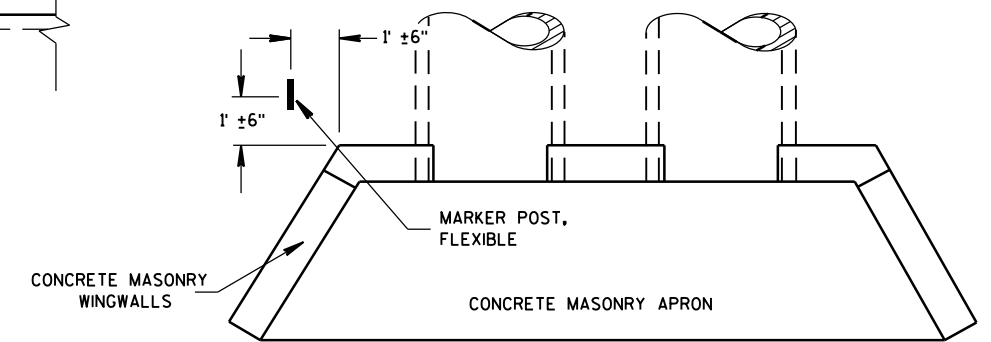


PLAN VIEW
UNDIVIDED HIGHWAY

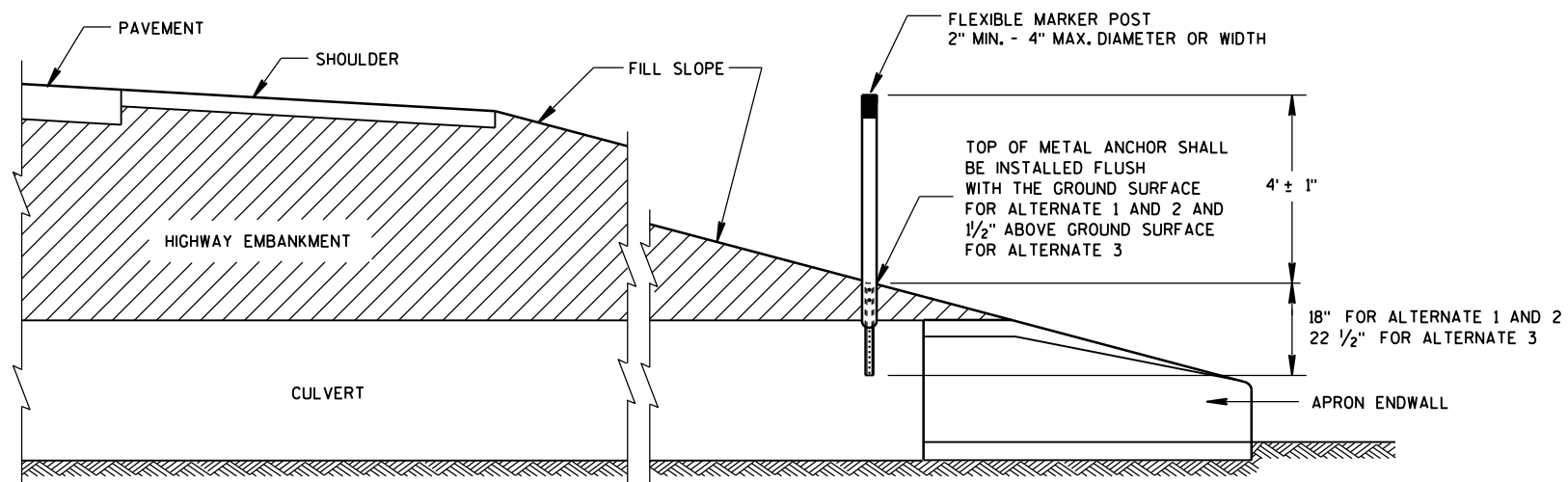
FLEXIBLE MARKER POST LOCATION

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.



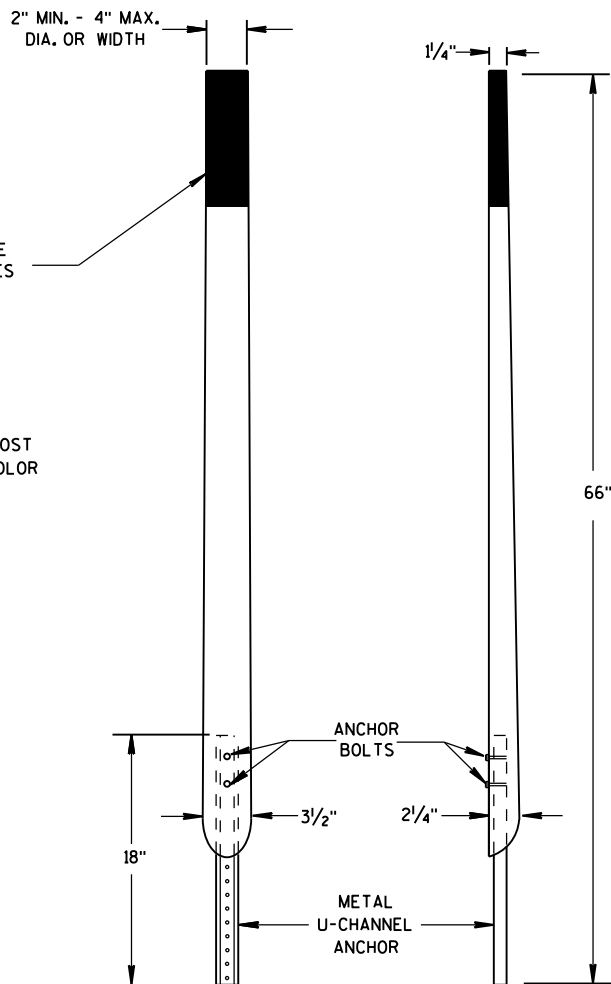
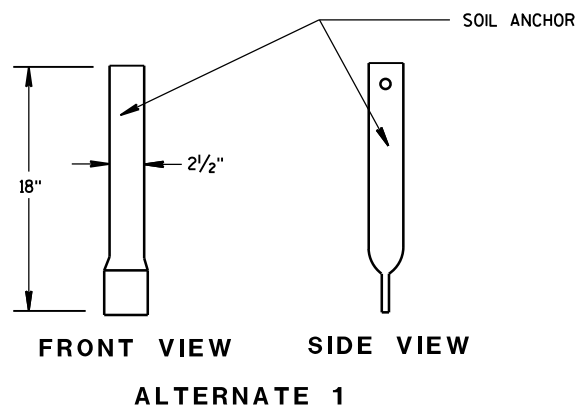
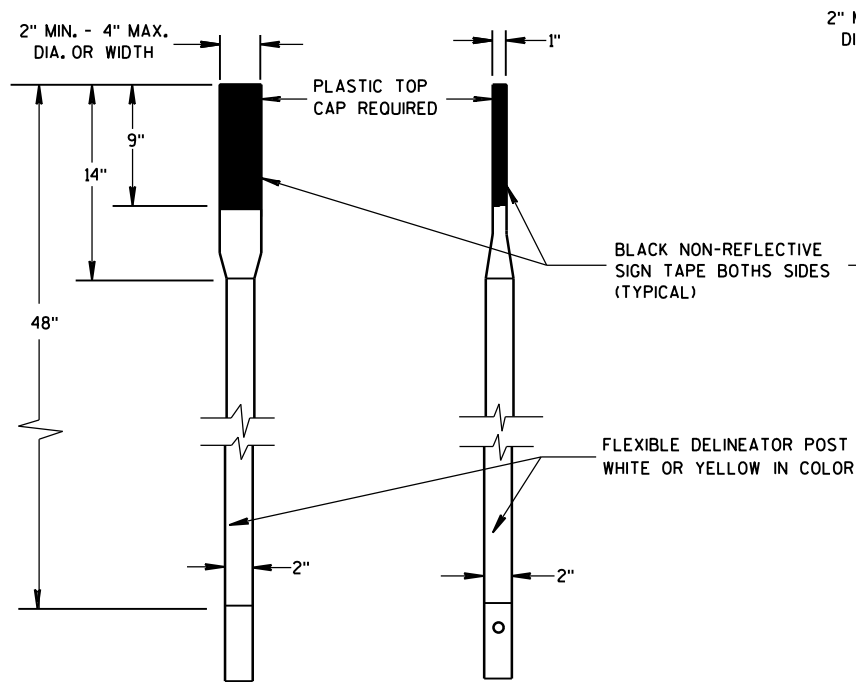
PLAN VIEW
CONCRETE MASONRY ENDWALLS FOR
CULVERT PIPE AND PIPE ARCH



CROSS SECTION
FLEXIBLE MARKER POST

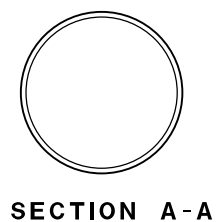
FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

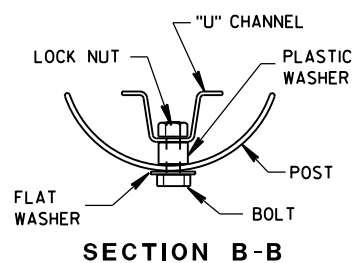
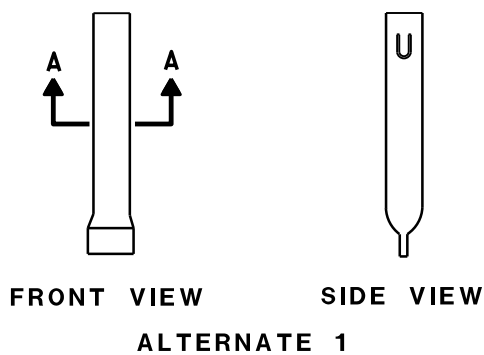


FRONT VIEW SIDE VIEW
ALTERNATE 2

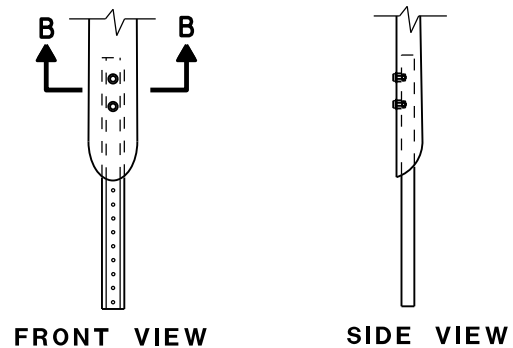
FLEXIBLE MARKER POSTS



SECTION A-A

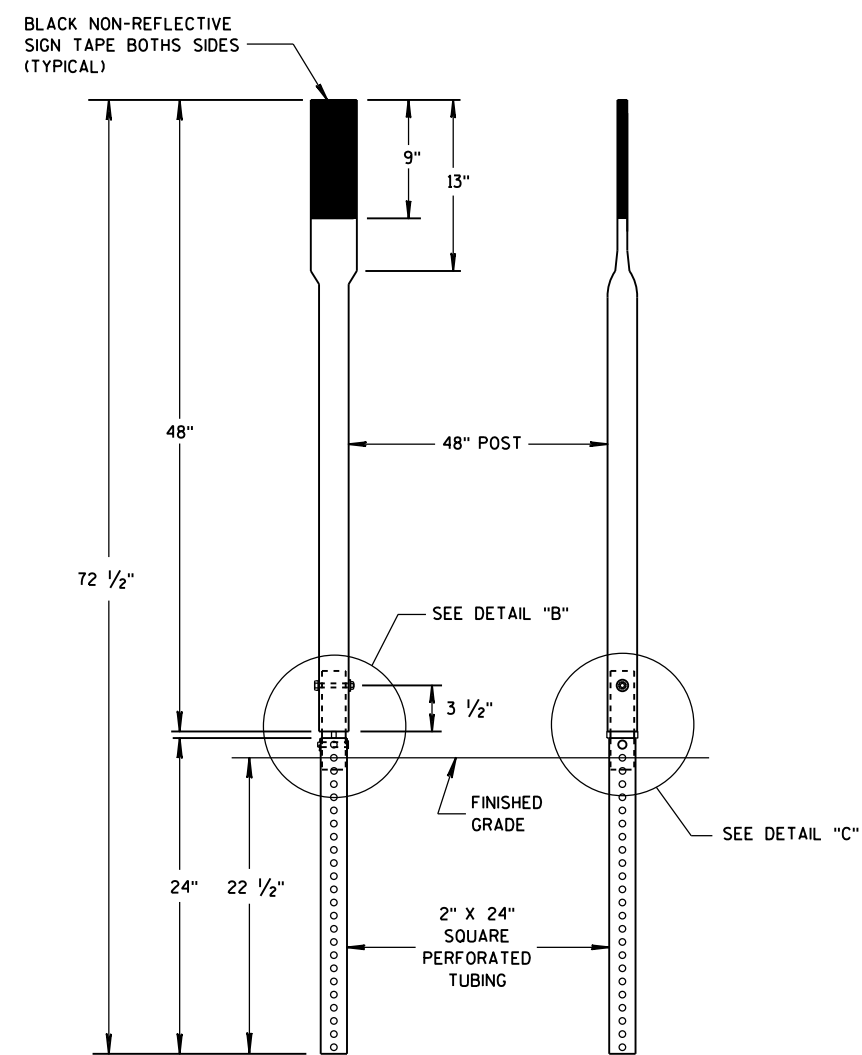


SECTION B-B

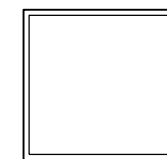


FRONT VIEW SIDE VIEW
ALTERNATE 2

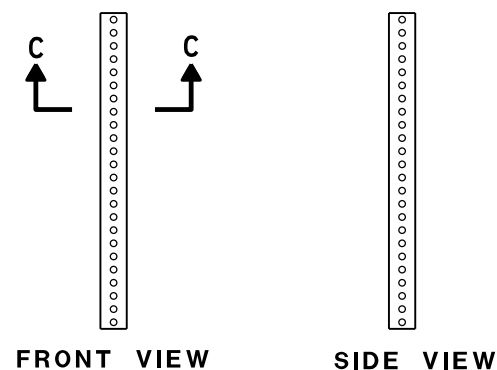
FLEXIBLE MARKER POST ANCHORS



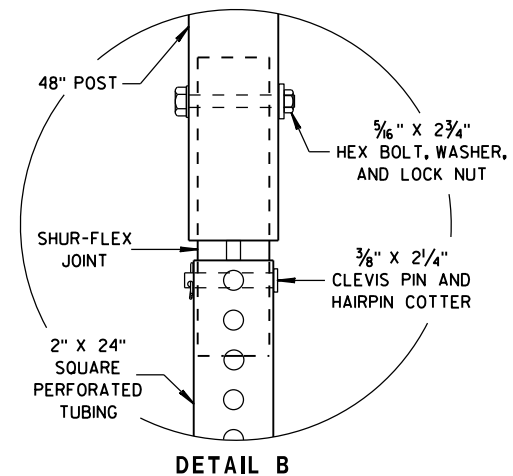
FRONT VIEW SIDE VIEW
ALTERNATE 3



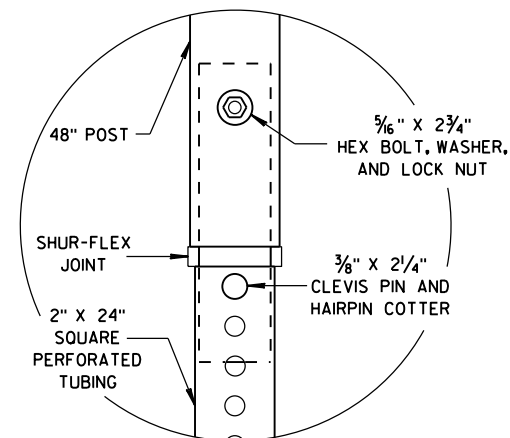
SECTION C-C



FRONT VIEW SIDE VIEW
ALTERNATE 3



DETAIL B



DETAIL C

FLEXIBLE MARKER POST FOR CULVERT END

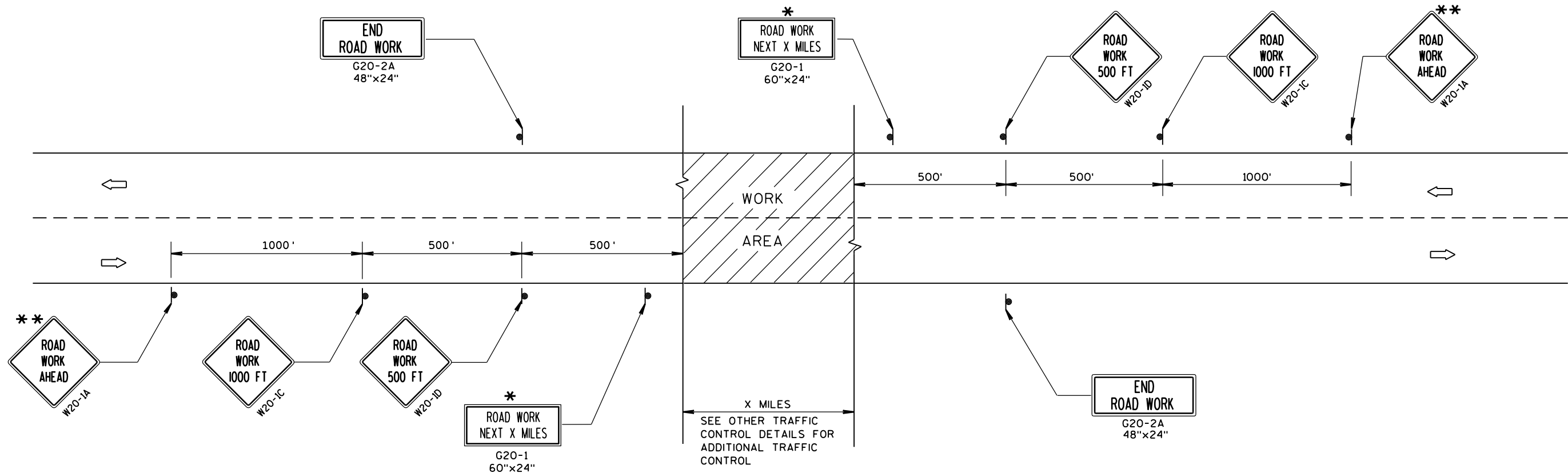
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

10/1/2012
DATE

FHWA

/S/ Travis Feltes
STATE TRAFFIC ENGINEER OF DESIGN



TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

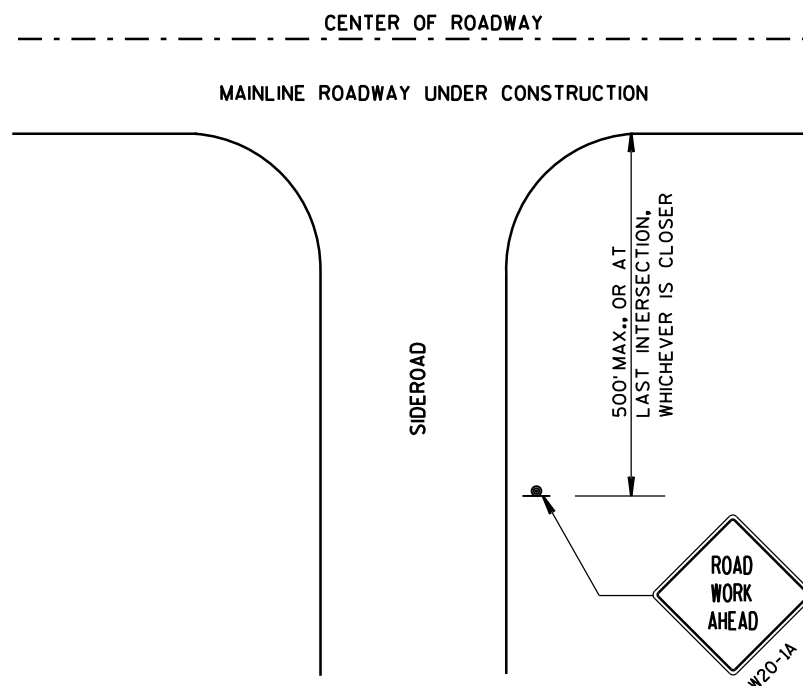
ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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

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

* OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

** PLACE ADDITIONAL W20-1A "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.



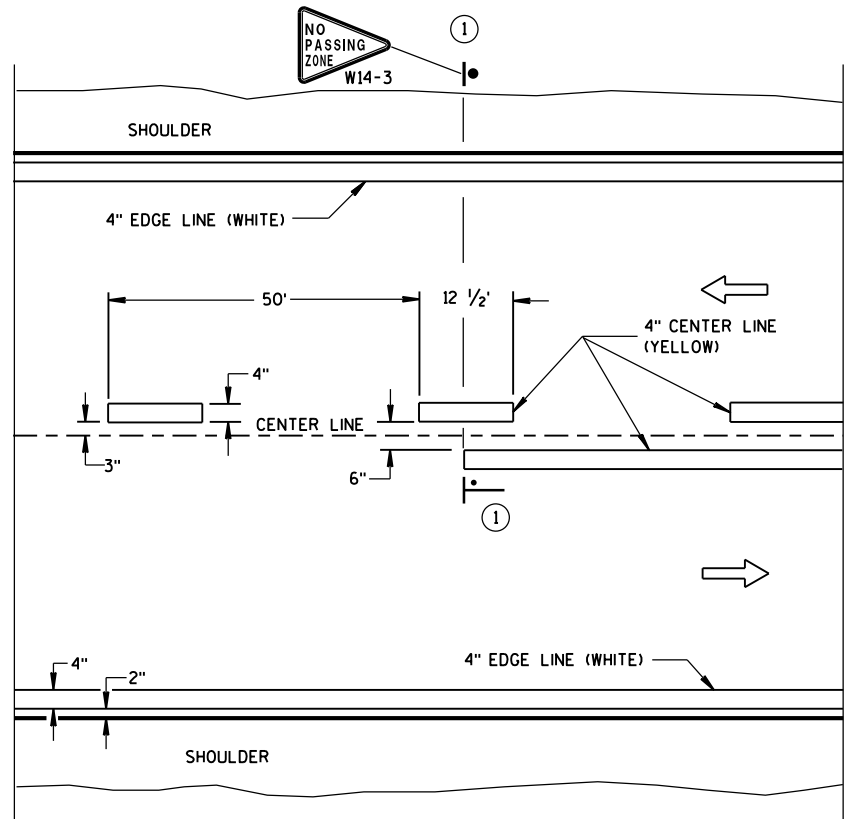
LEGEND

- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA

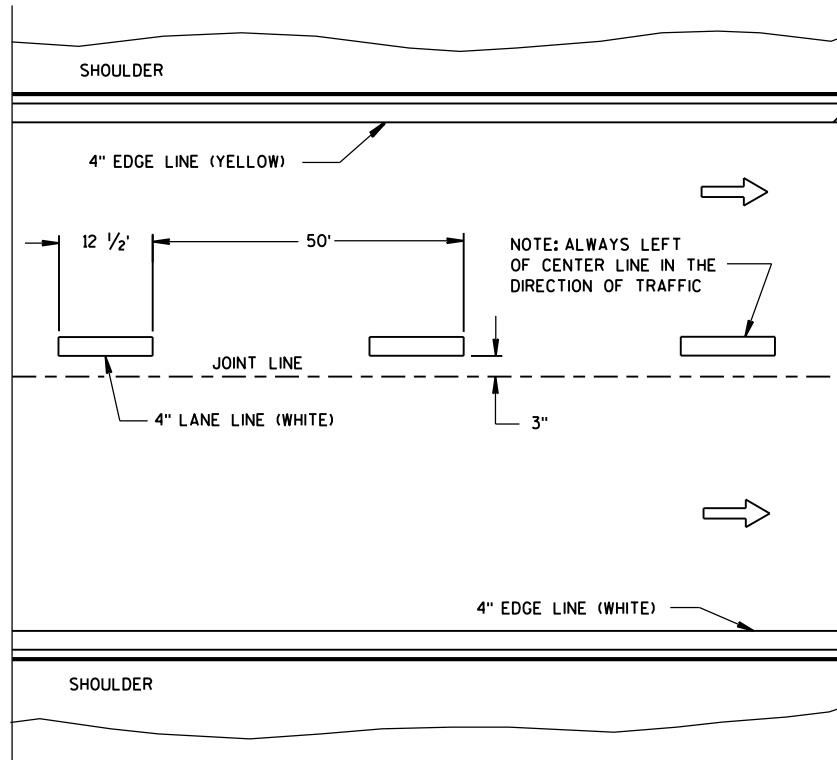
TRAFFIC CONTROL, ADVANCE
WARNING SIGNS 45 M.P.H.
OR GREATER TWO-WAY
UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2015 /S/ Peter Amokobe Atepe
DATE STATEWIDE WORK ZONE TRAFFIC
FHWA SAFETY ENGINEER

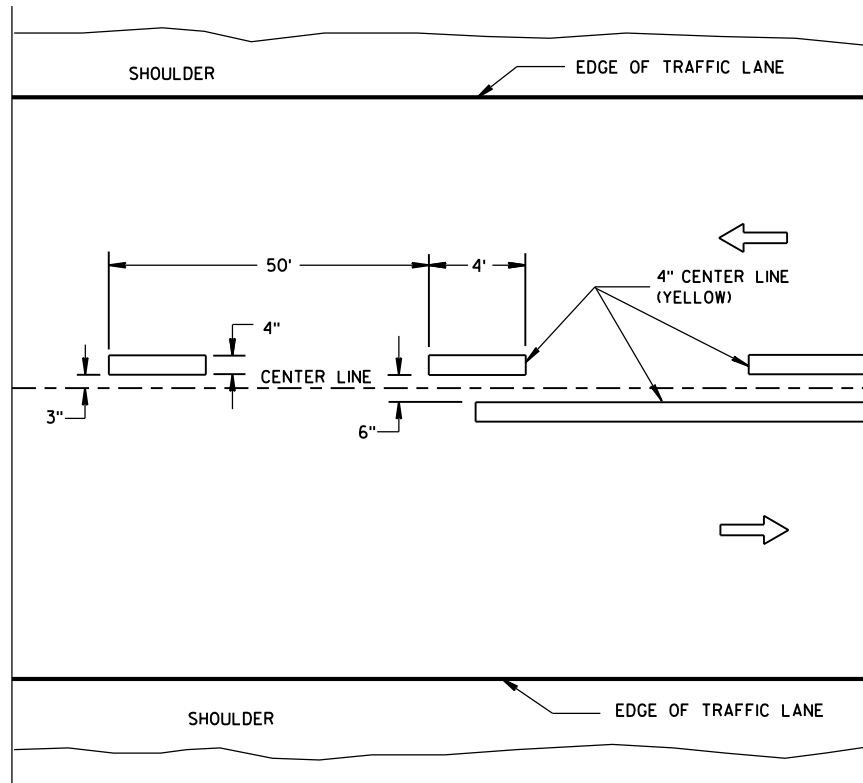


TWO WAY TRAFFIC

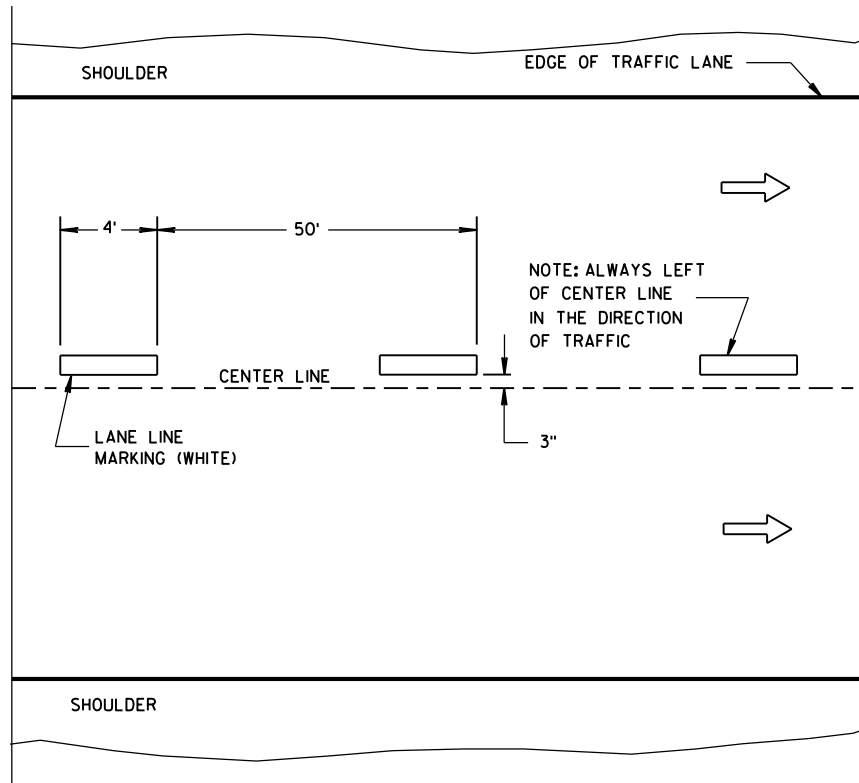


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY PAVEMENT MARKING

GENERAL NOTES

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

- ① NO PASSING ZONE W14-3 SIGN SHALL BE LOCATED WITHIN 50 FEET OF THE "T" MARKING.

NOTE

ARROW SYMBOL (→) SHOWS DIRECTION OF TRAVEL

LEGEND

- ├── "T" MARKING
- POST MOUNTED SIGN

LONGITUDINAL MARKING
(MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2016 /S/ Matthew R. Rauch
DATE STATE SIGNING AND MARKING ENGINEER
FHWA

LEGEND

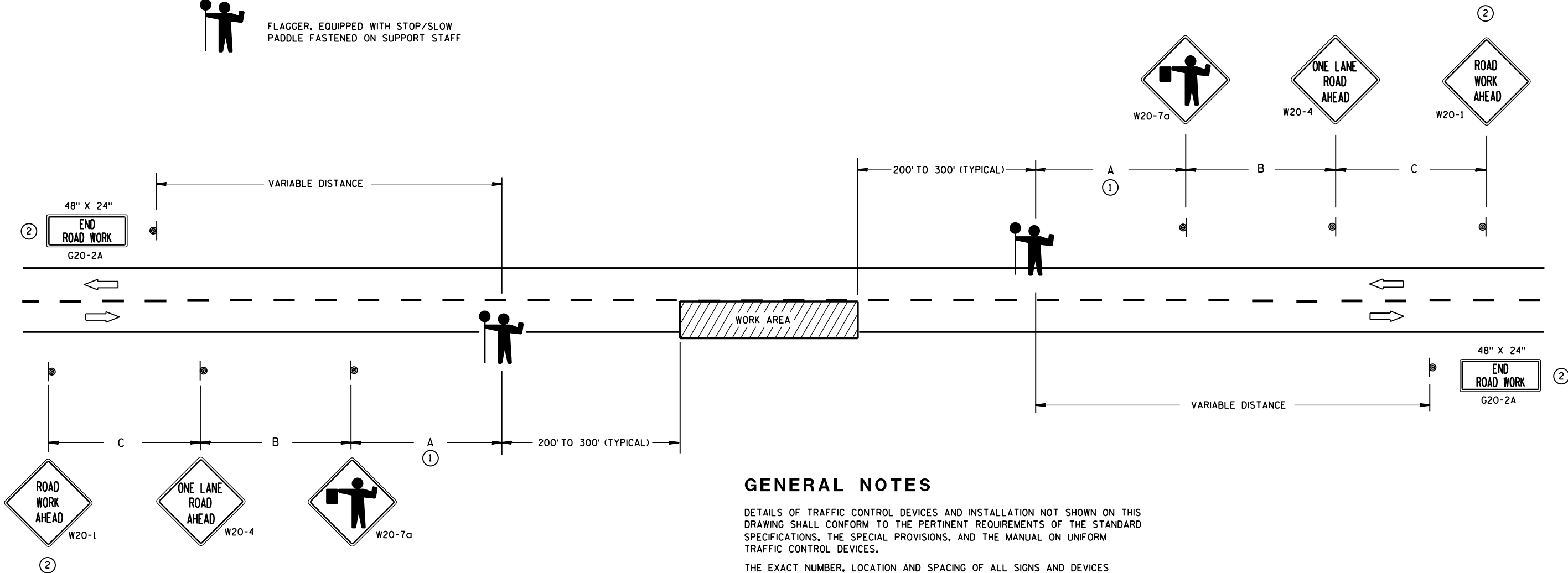
-  SIGN ON PORTABLE OR PERMANENT SUPPORT
-  DIRECTION OF TRAFFIC
-  WORK AREA
-  FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

SIGN SPACING TABLE

SPEED LIMIT	SIGN SPACING A,B,C
25-35 MPH	200'
35-40 MPH	350'
45-55 MPH	500'



USE OF THE "BE PREPARED TO STOP" SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7a AND W20-4 SIGNS. A 500' TYPICAL SPACING SHALL BE PROVIDED BETWEEN THE SIGNS.



GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

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

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT, COVER OR REMOVE ALL TEMPORARY TRAFFIC CONTROL SIGNS.

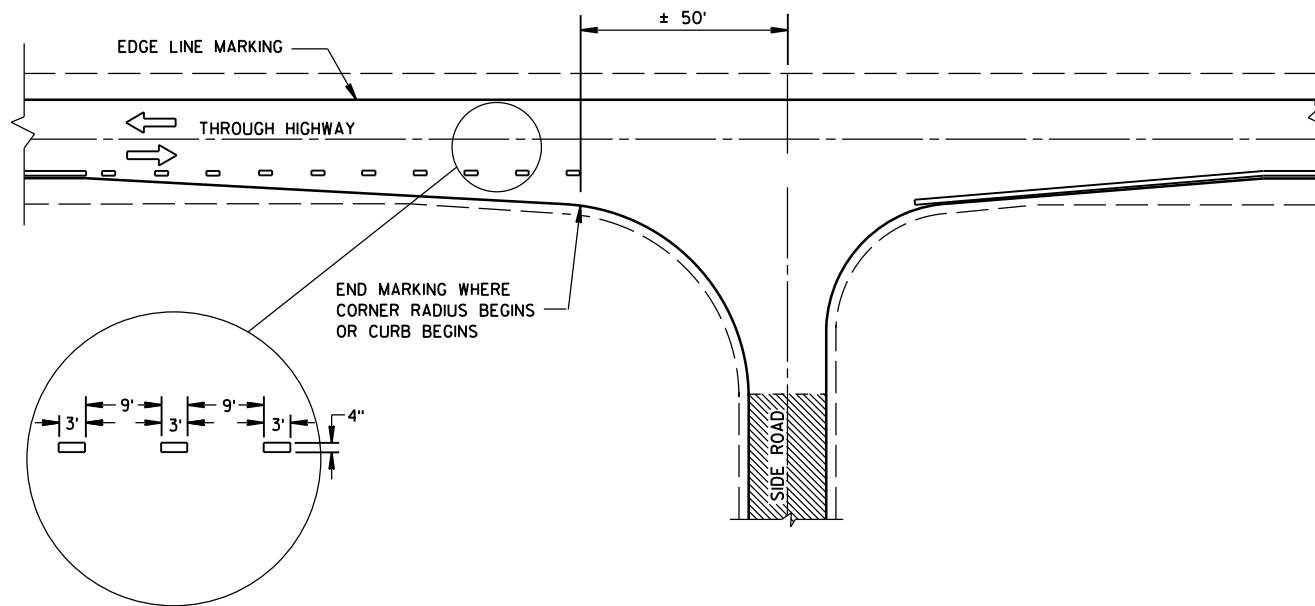
ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

- ① FOR A MOVING WORK OPERATION, SIGNING FOR BOTH DIRECTIONS SHALL BE REESTABLISHED (AS SIMULTANEOUSLY AS PRACTICAL) AT APPROXIMATELY 3500 FOOT INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.
- ② SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
8/2013 /S/ Travis Feltes
DATE STATE TRAFFIC ENGINEER OF DESIGN
FHWA



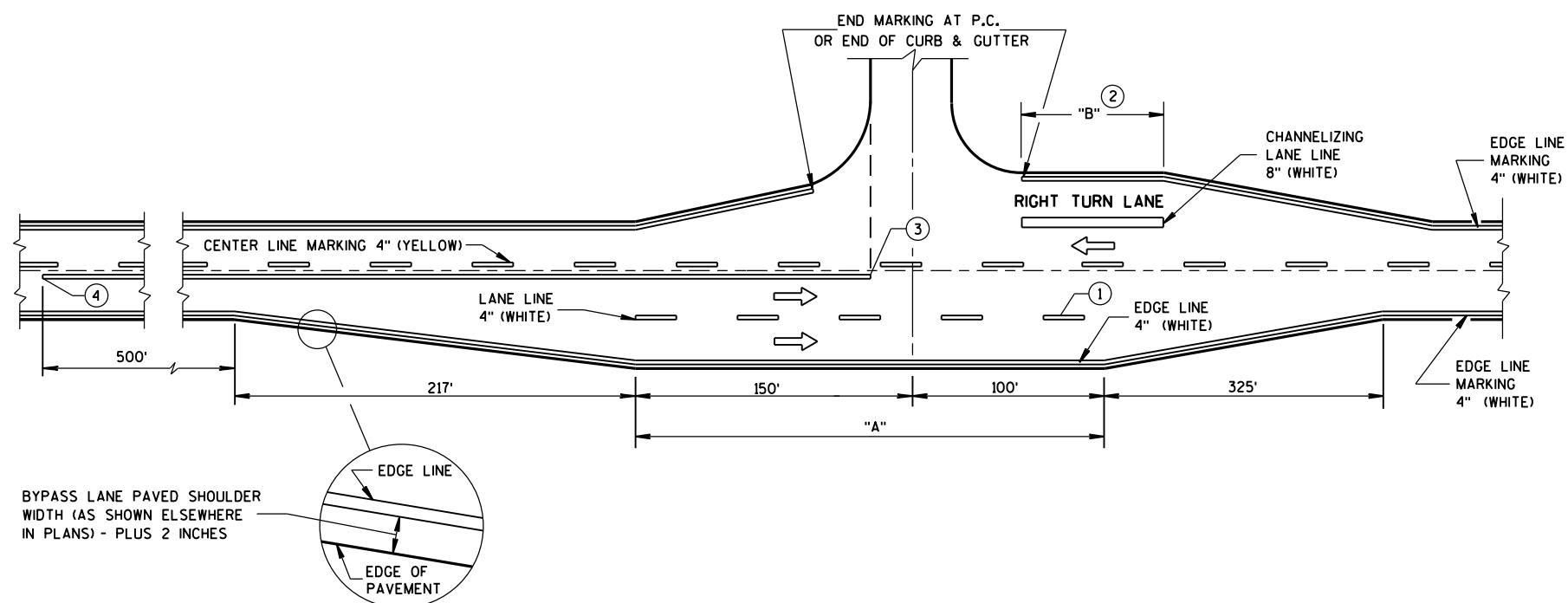
MINOR INTERSECTION WITHOUT CURBS

GENERAL NOTES

EDGE LINES SHALL BE OMITTED THROUGH INTERSECTIONS. EDGE LINES SHALL BE CONTINUED THROUGH DRIVEWAYS.

- ① WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.
- ② WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.
- ③ BARRIER LINE ENDS AT SIDE ROAD PAVEMENT/SURFACE EDGE EXTENSION.
- ④ BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.

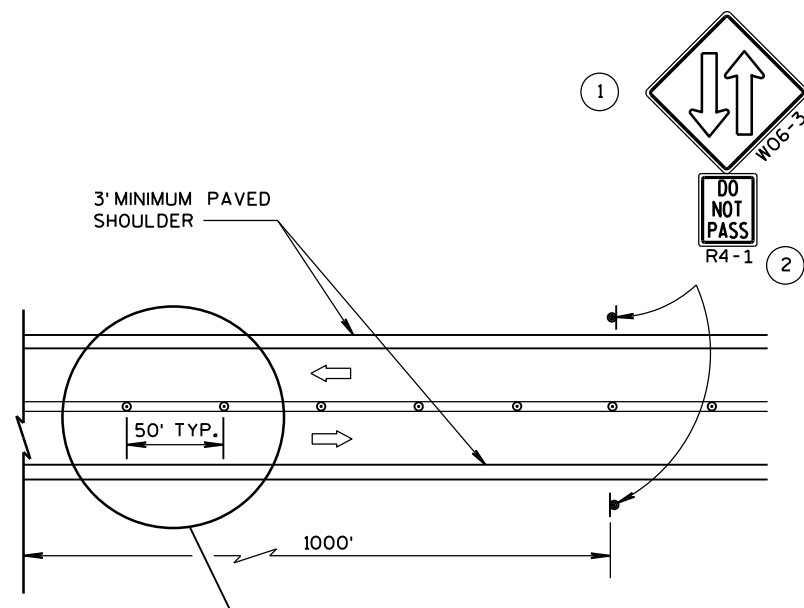
ARROW SYMBOL () SHOWS DIRECTION OF TRAVEL



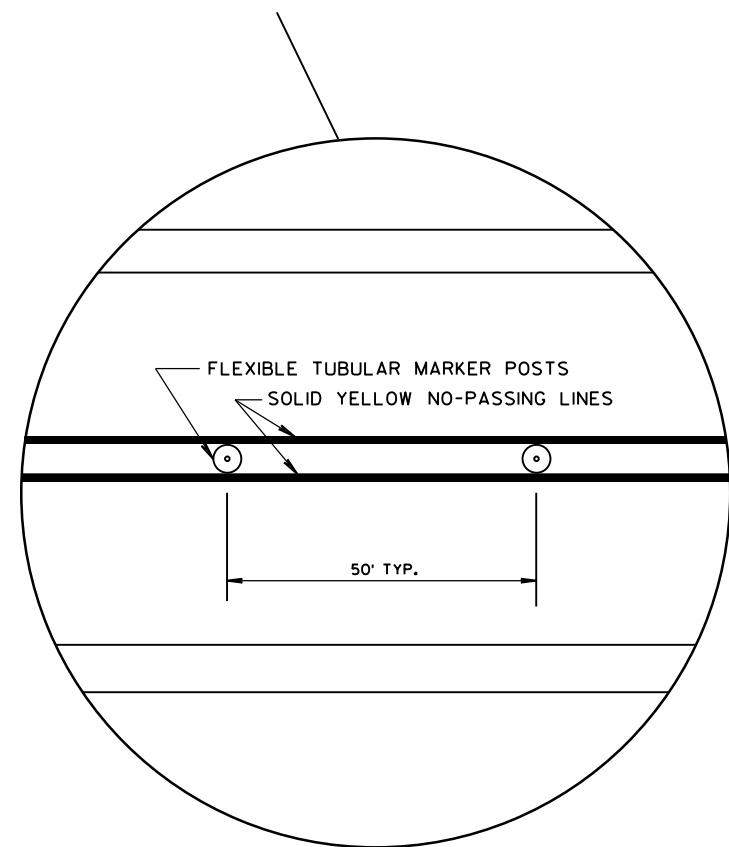
MAJOR INTERSECTIONS
(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANES)

**PAVEMENT MARKING
(INTERSECTIONS)**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



TWO LANE, TWO WAY OPERATION



LEGEND

- ⊙ SIGN ON PERMANENT SUPPORT
- ⊙ DELINEATOR FLEXIBLE/TUBULAR MARKER
- ➡ DIRECTION OF TRAFFIC

GENERAL NOTES

ALL SIGNS ARE 48"x48" UNLESS OTHERS NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

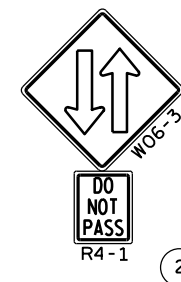
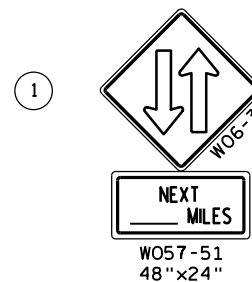
ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON "COVERED" OR "DOWNED" SIGNS.

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

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIRABLE) DISTANCE TO EXISTING SIGNS.

A SINGLE ROW OF FLEXIBLE TUBULAR MARKERS ON CENTERLINE EXTEND FOR THE ENTIRE LENGTH OF TWO-WAY TRAFFIC AT 50-FOOT SPACING.

COVER EXISTING CENTERLINE STRIPE WITH TEMPORARY PAVEMENT MARKING, 4-INCH DOUBLE YELLOW.



THE WO6-3 WITH THE WO57-51 SHALL BE LOCATED 200 FEET BEYOND THE END OF THE ACCELERATION LANE OF EACH ENTRANCE RAMP AND/OR 500 FEET BEYOND ANY SIDEROAD. THE WO6-3 WITH THE R4-1 SHALL BE LOCATED 1000 FEET BEYOND THE WO6-3 AND THE WO57-51 AND THE SIGNS SHALL BE ALTERNATED WITH ONE MILE INTERVALS BETWEEN WO6-3 SIGNS.

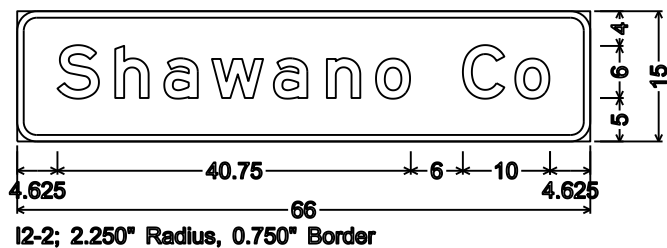
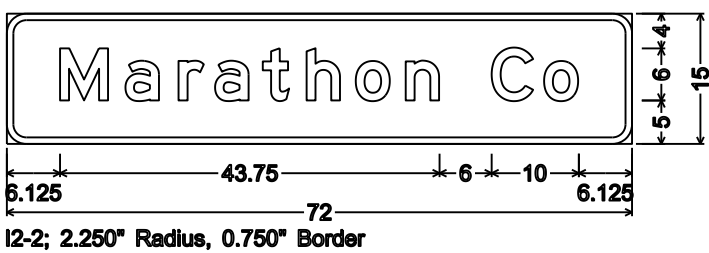
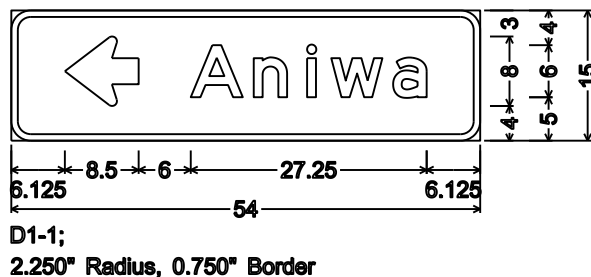
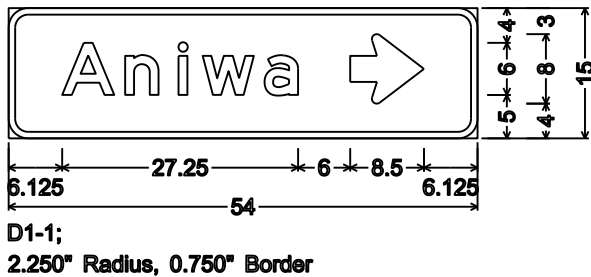
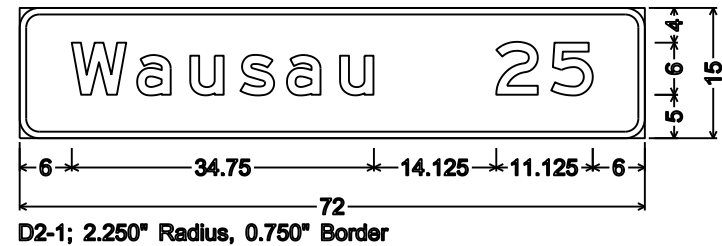
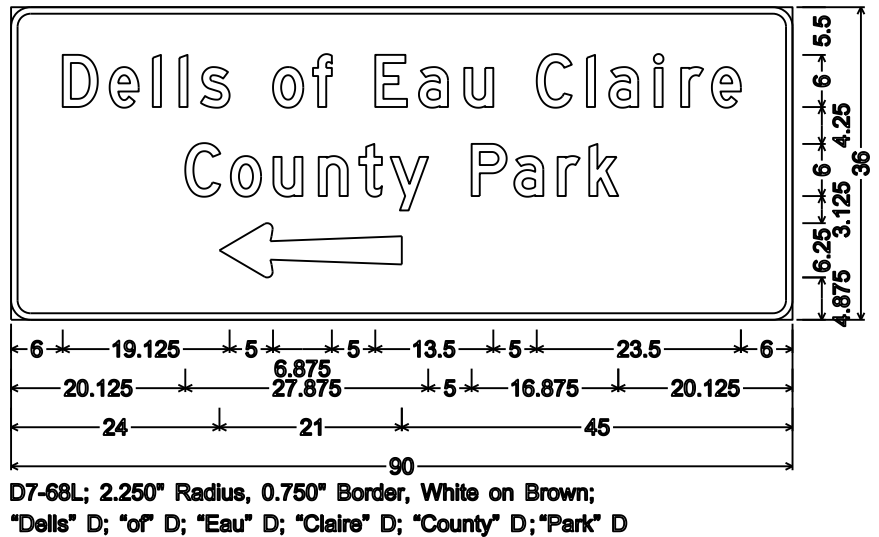
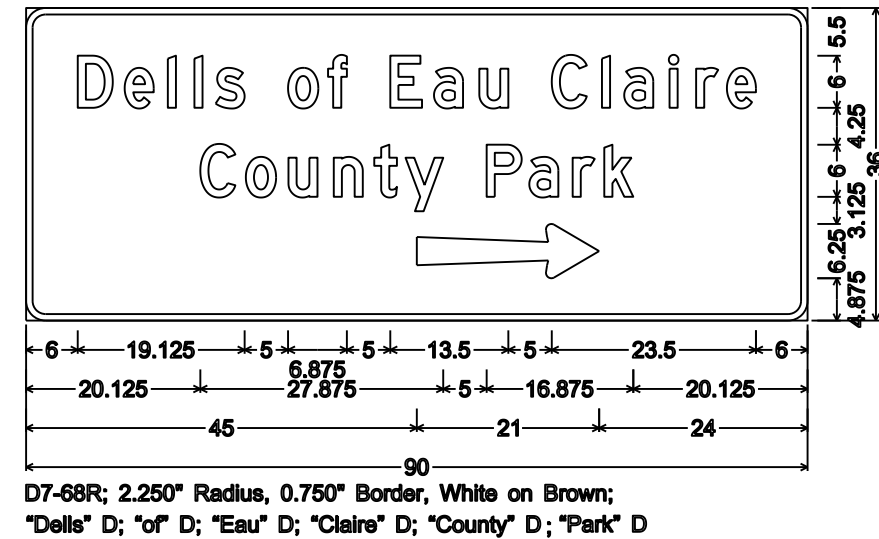
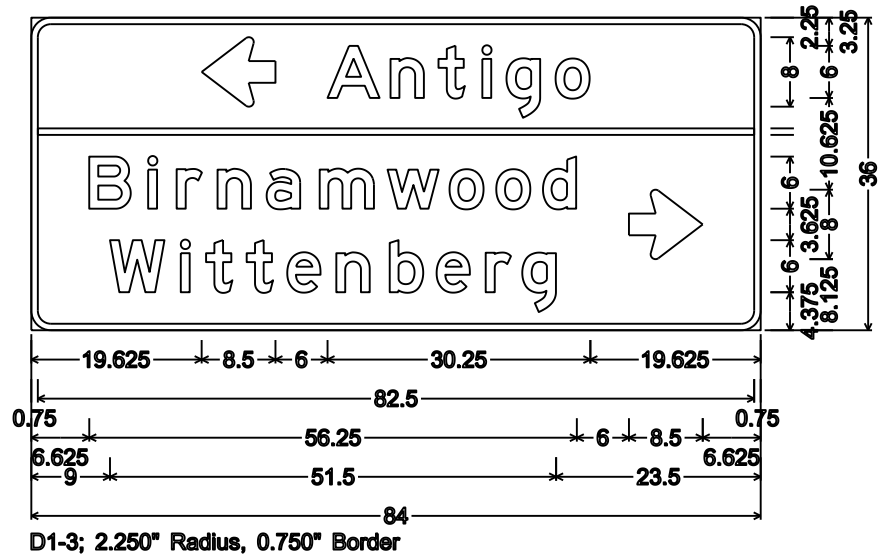
CONVENTIONAL: 24"x30"
FREEWAY AND EXPRESSWAY: 36"x48"

TRAFFIC CONTROL,
TWO LANE TWO
WAY OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

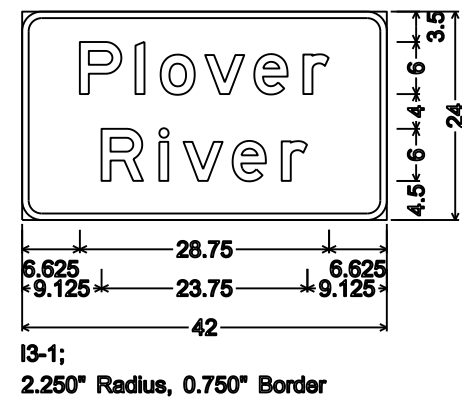
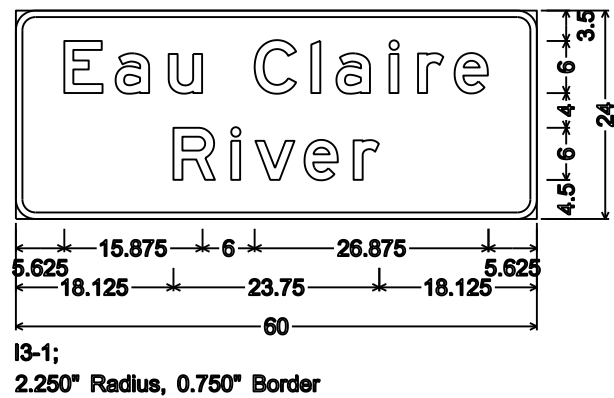
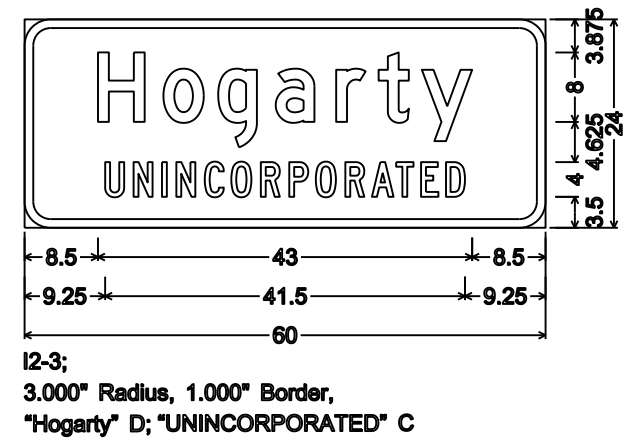
APPROVED

8/2013 /S/ Travis Feltes
DATE STATE TRAFFIC ENGINEER OF DESIGN
FHWA

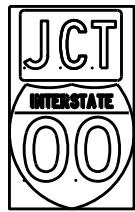


NOTES

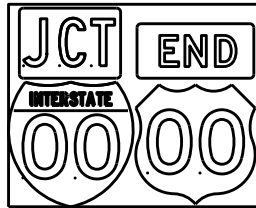
1. All Signs Type II - Type H Reflective
2. Color:
Background - Green except as noted
Message - White
3. Message Series - E except as noted



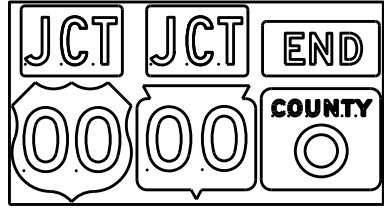
TYPICAL ASSEMBLIES



J1-1



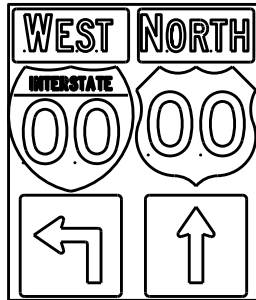
J1-2



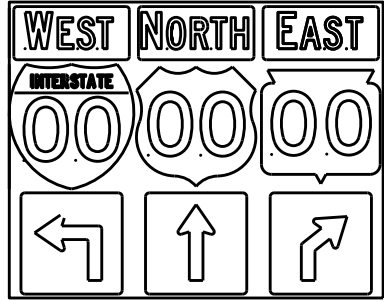
J1-3



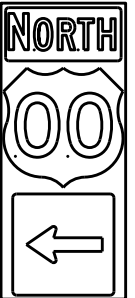
J2-1



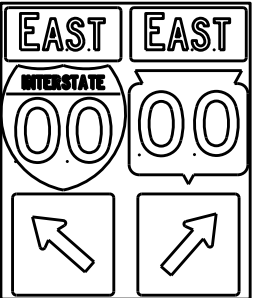
J2-2



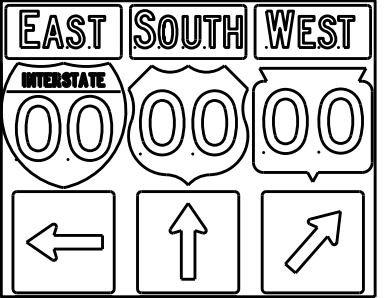
J2-3



J3-1



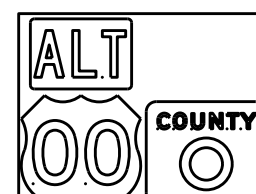
J3-2



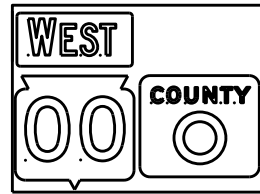
J3-3



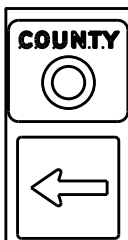
J4-1



J4-2



J4-2



J13-1



J12-1



J32-1



J33-1



J23-1

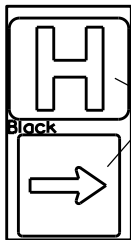


J22-1



JV

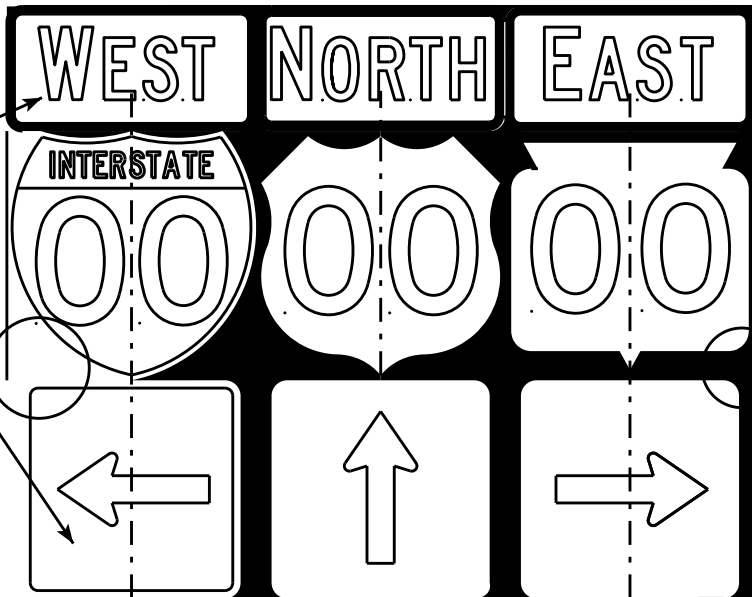
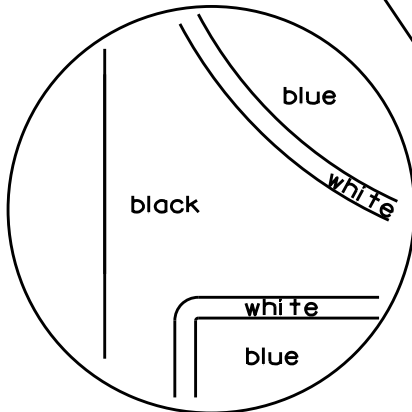
(Typical Vertical J-Assembly
See Note 10 and 11)



JH-1

Blue Background

[blue background
with interstate]



[black background]

ROUTE MARKERS & COMPONENTS
IN TYPICAL ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

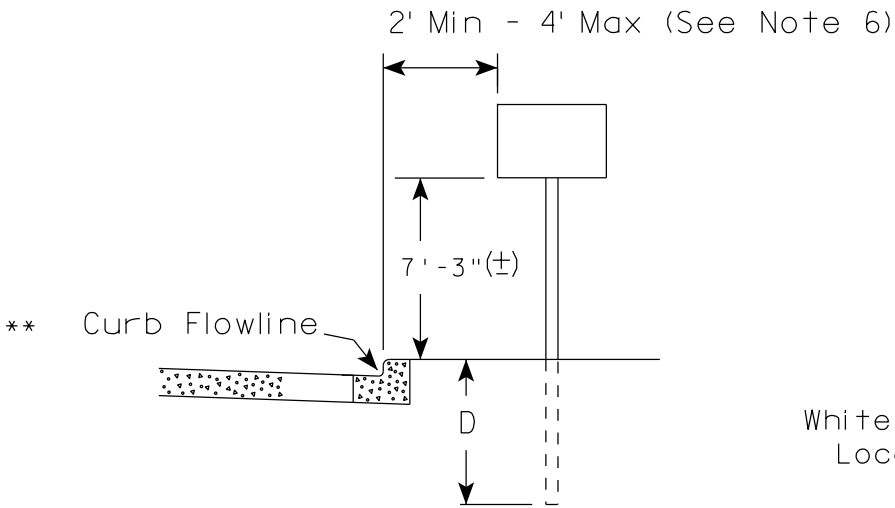
APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 2/06/14 PLATE NO. A2-1S.8

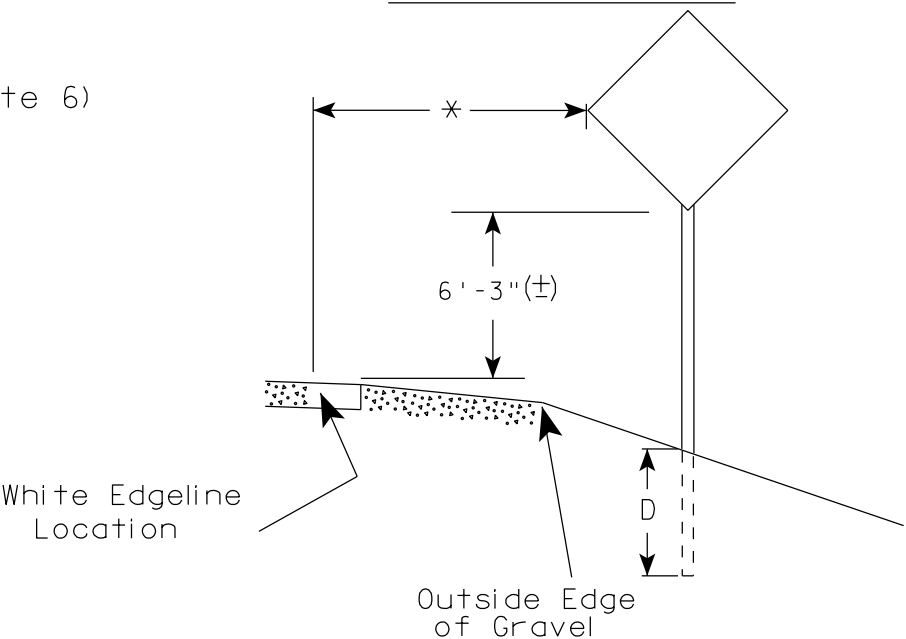
NOTES

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.

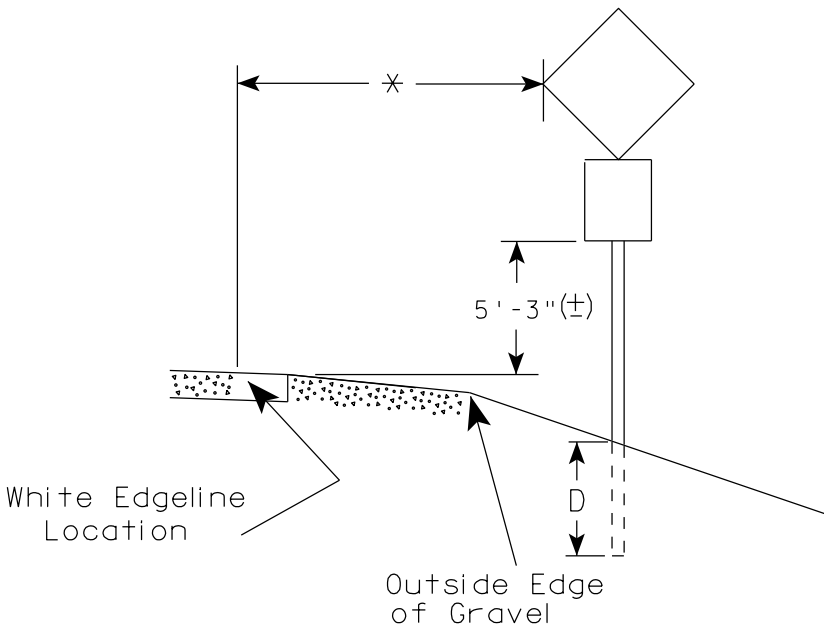
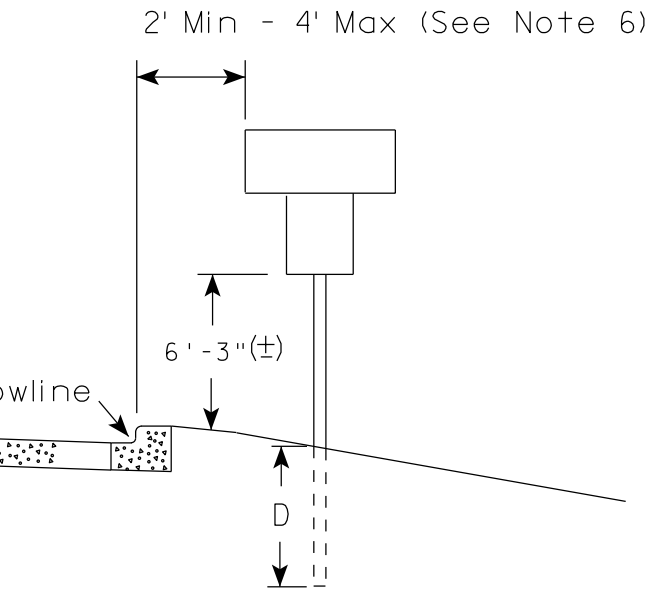
URBAN AREA



RURAL AREA (See Note 2)



- GENERAL NOTES
1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
 2. If signs are mounted on barrier wall, see A4-10 sign plate.
 3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
 4. 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" (±).



POST EMBEDMENT DEPTH

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

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

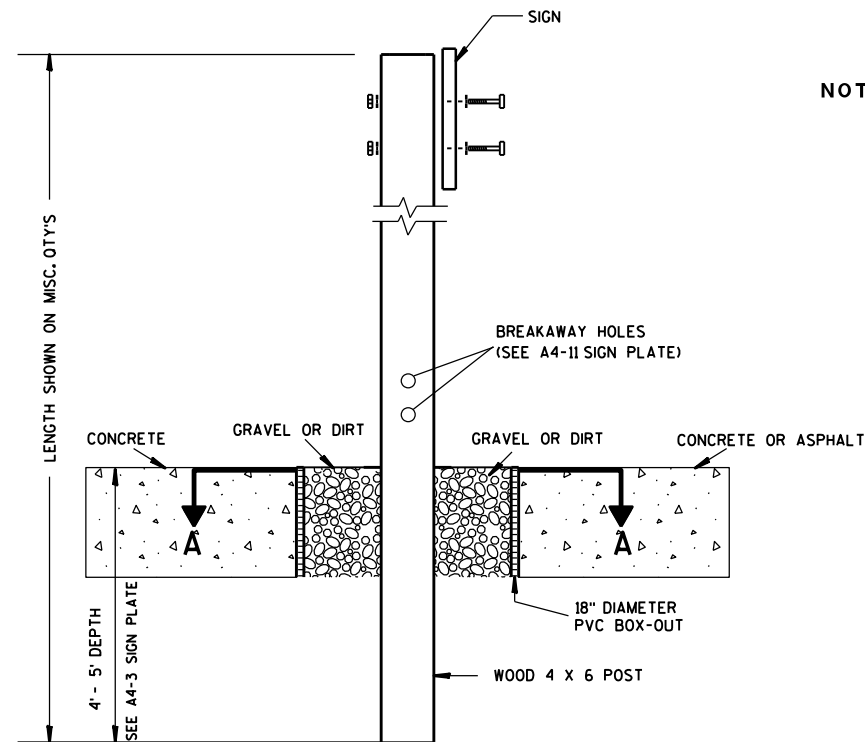
* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

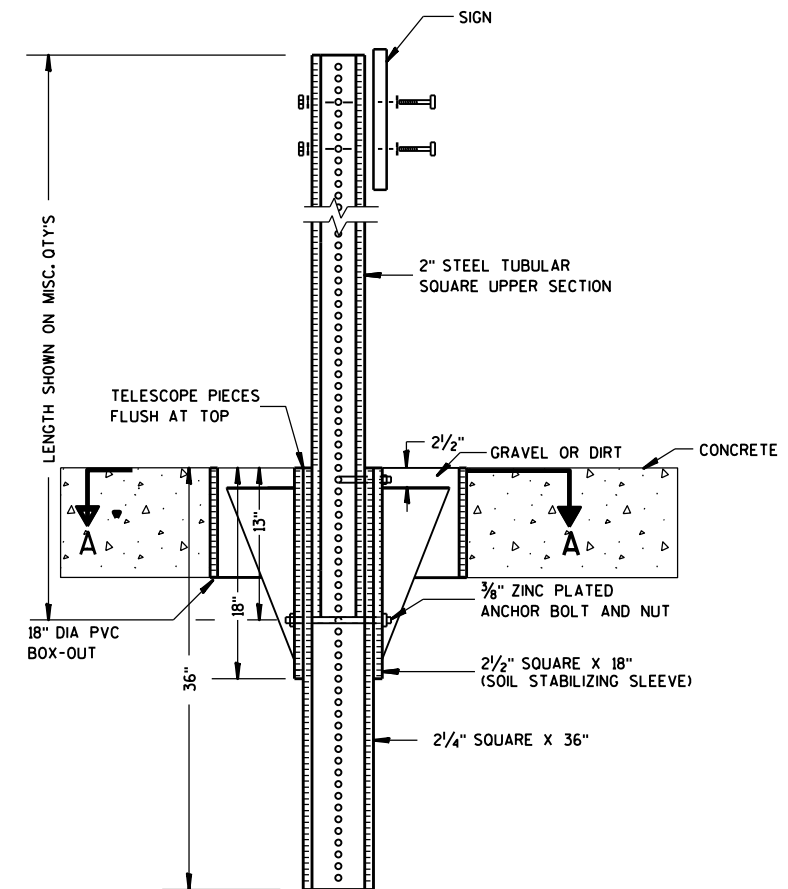
DATE 7/23/15 PLATE NO. A4-3.20



ELEVATION VIEW

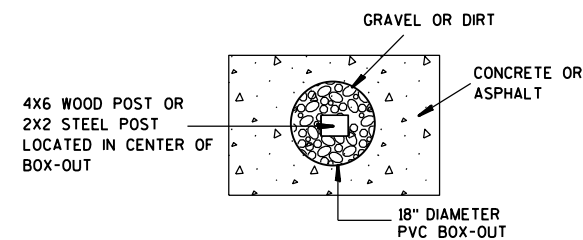
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

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



ELEVATION VIEW

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



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST
BOX-OUTS
A4-3B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

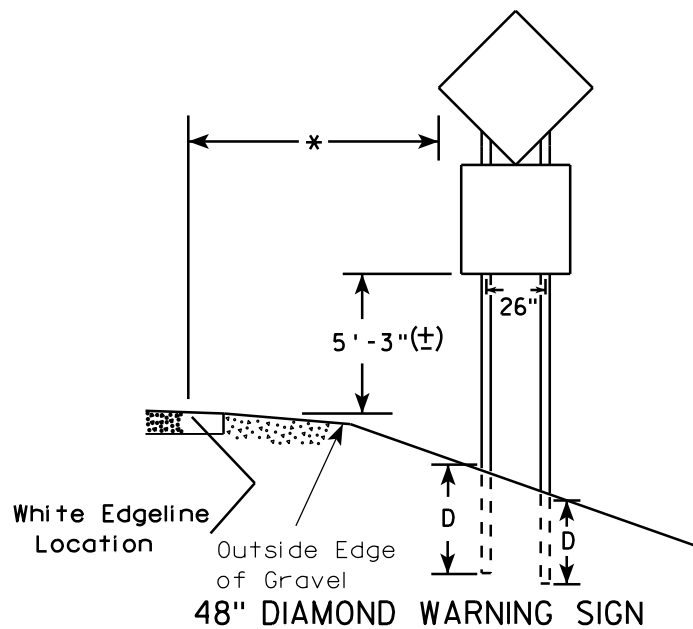
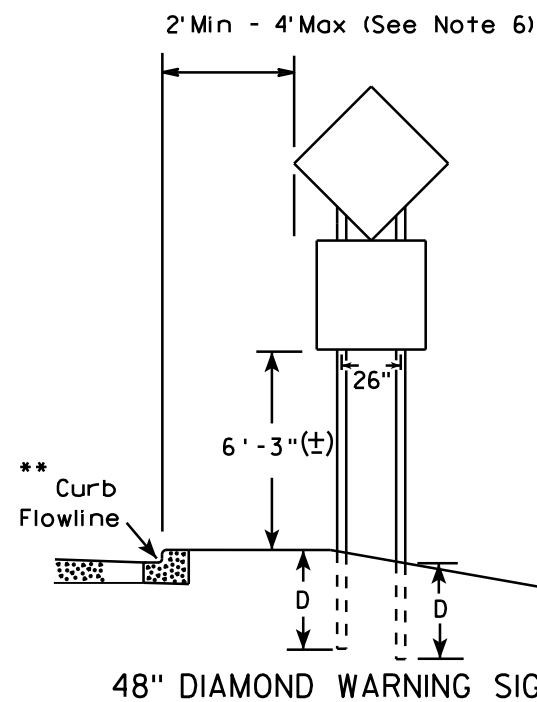
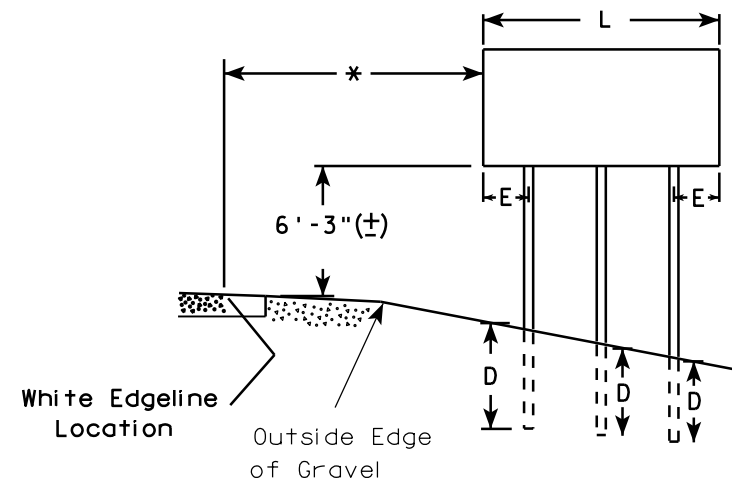
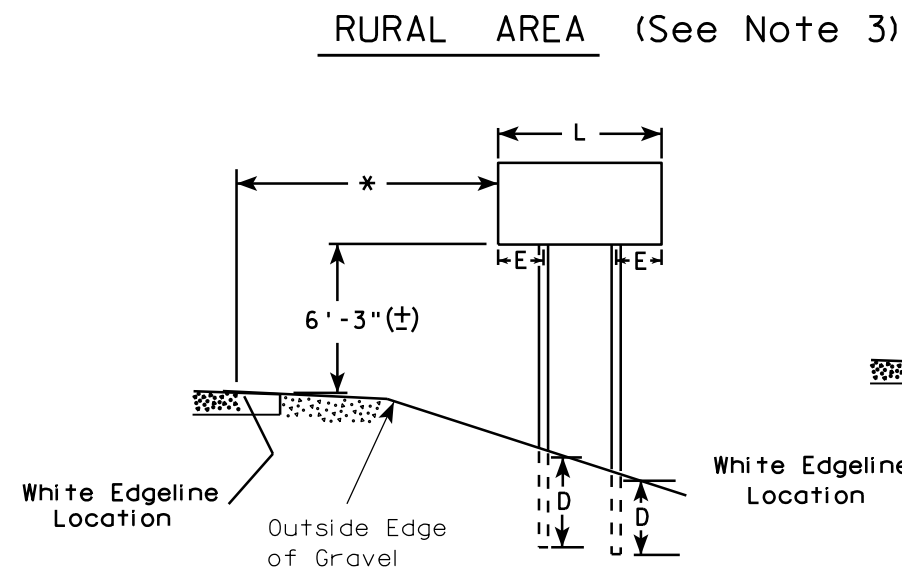
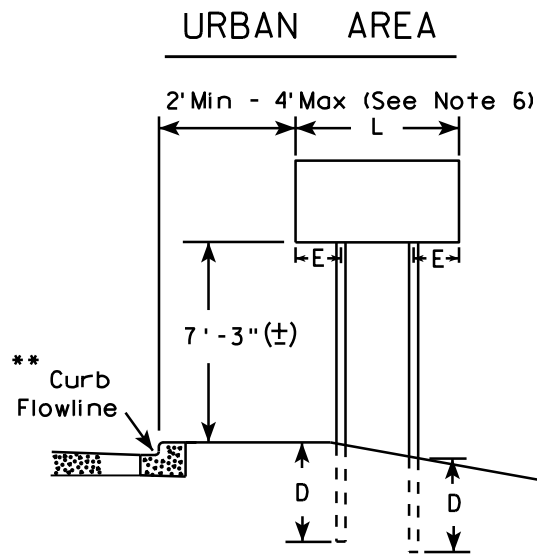
PROJECT NO:

HWY:

COUNTY:

SHEET NO:

E



- 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 and less than 20 S.F. in area.

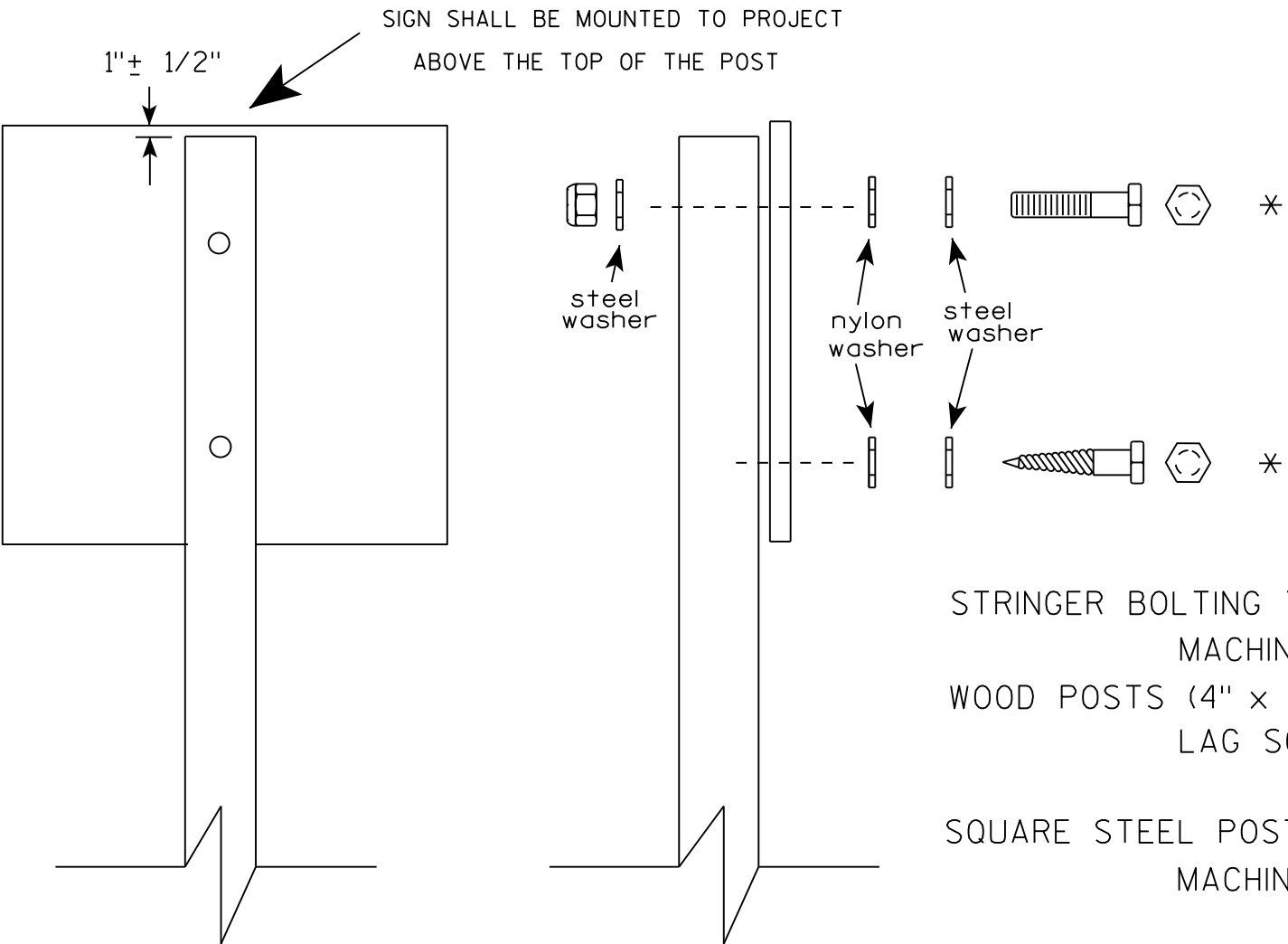
SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)	
L	E
Greater than 48" Less than 60"	12"
60" to 120"	L/5

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	<i>Matthew R. Rauch</i> for State Traffic Engineer
DATE 7/23/15	PLATE NO. A4-4.14



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

- a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3
- b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

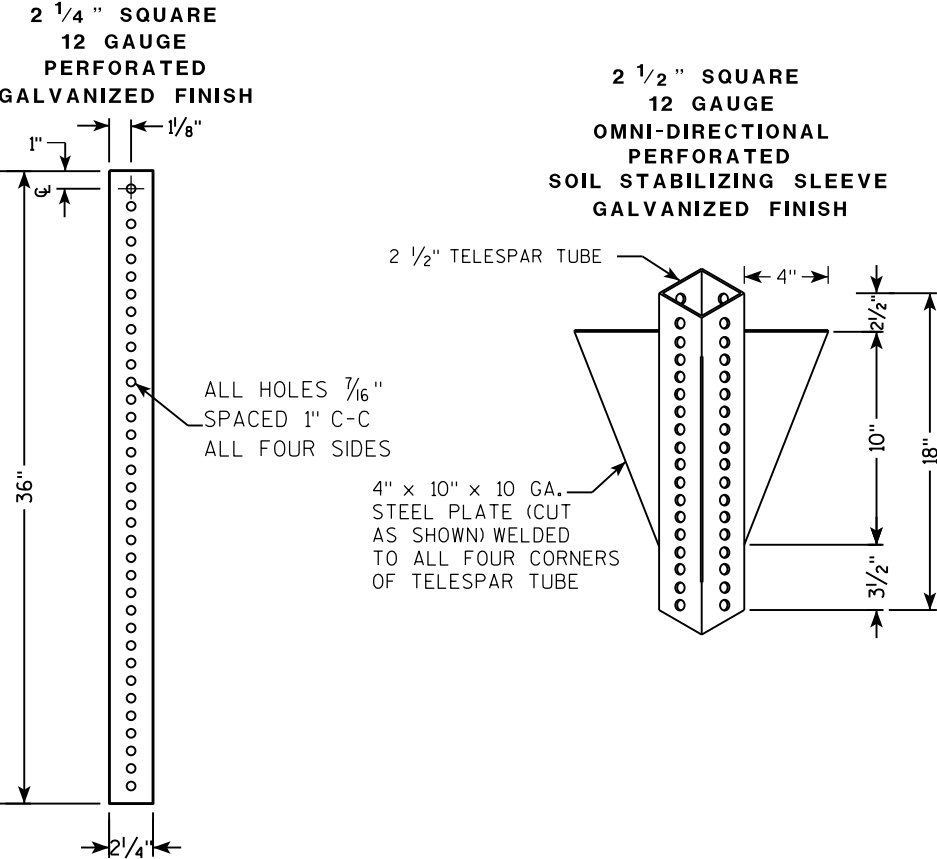
Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

- STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)
- MACHINE BOLTS - 5/16" X 1-3/4" Length w/ lock nuts
- WOOD POSTS (4" x 4" or 4" x 6")
- LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)
 - 3/8" X 4" (STRINGERS ON BACK OF SIGN)
- SQUARE STEEL POSTS (2" x 2")
- MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)
 - 3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)
- RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
- O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH
- WASHERS (ALL POSTS) -
- 1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
 - 1-1/4" O.D. X 3/8" I.D. X .080 NYLON

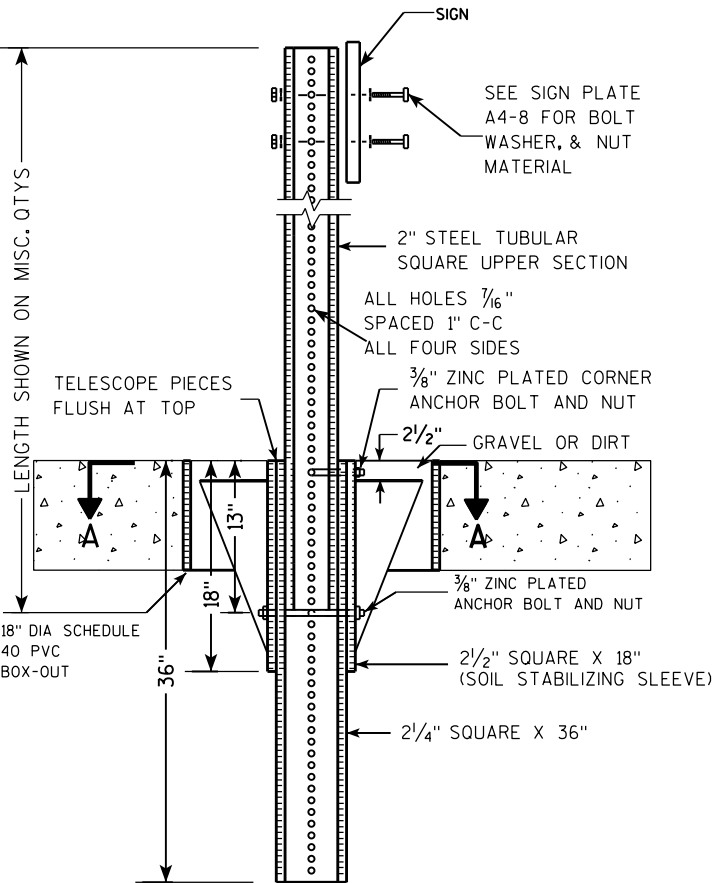
* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R. Rauch</i> For State Traffic Engineer
DATE 8/11/16	PLATE NO. A4-8.8

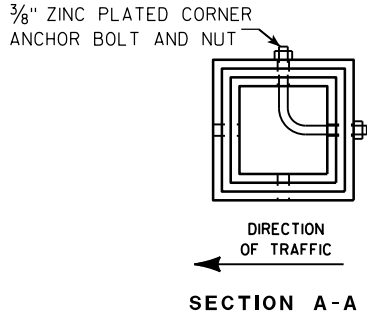
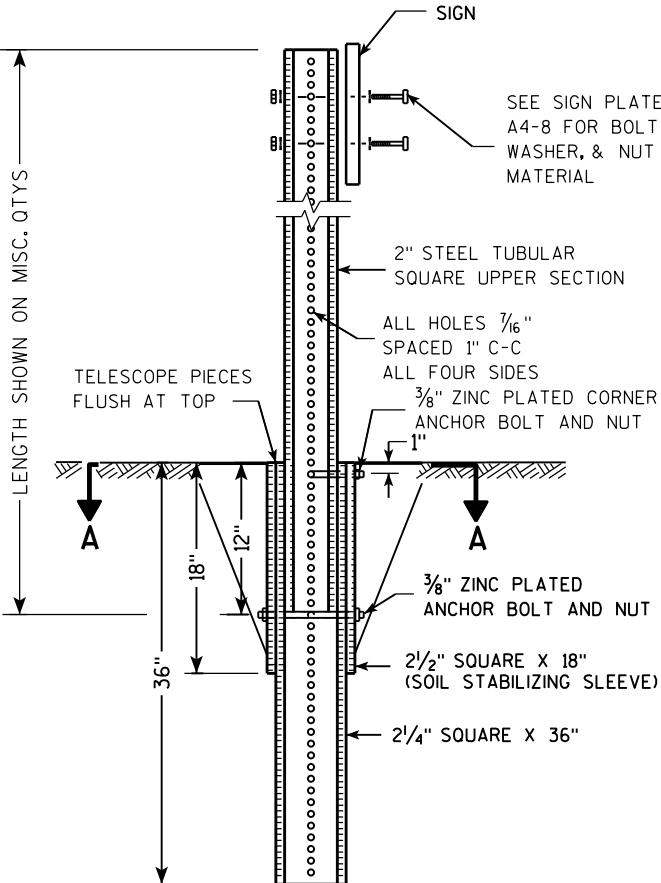
TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM



DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



DETAIL OF TUBULAR STEEL SIGN POST
(IN LOCATIONS OTHER THAN POURED CONCRETE OR ASPHALT)



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

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

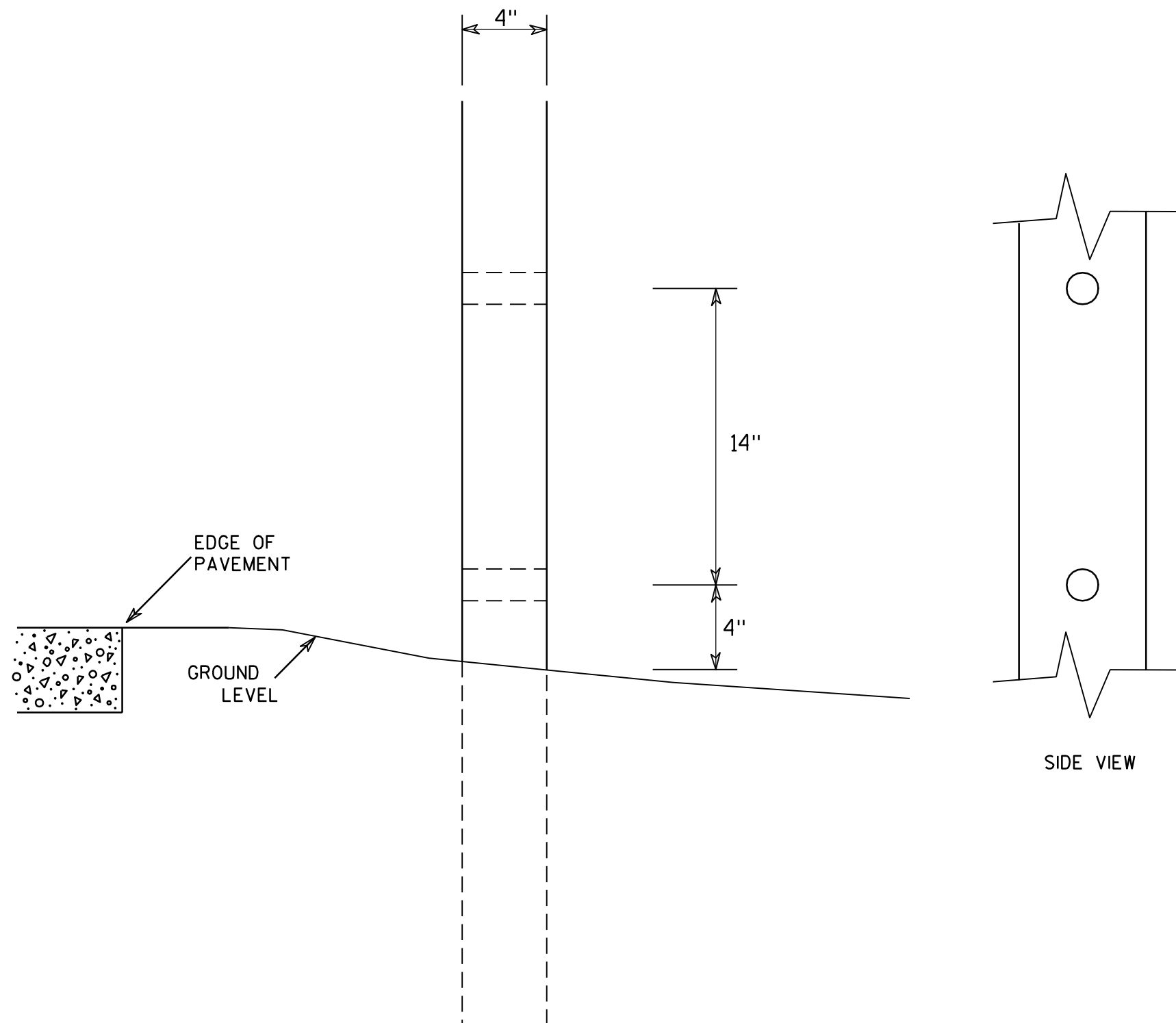
TUBULAR STEEL
SIGN POST
A4-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 2/05/15 PLATE NO. A4-9.9

7



GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

7

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

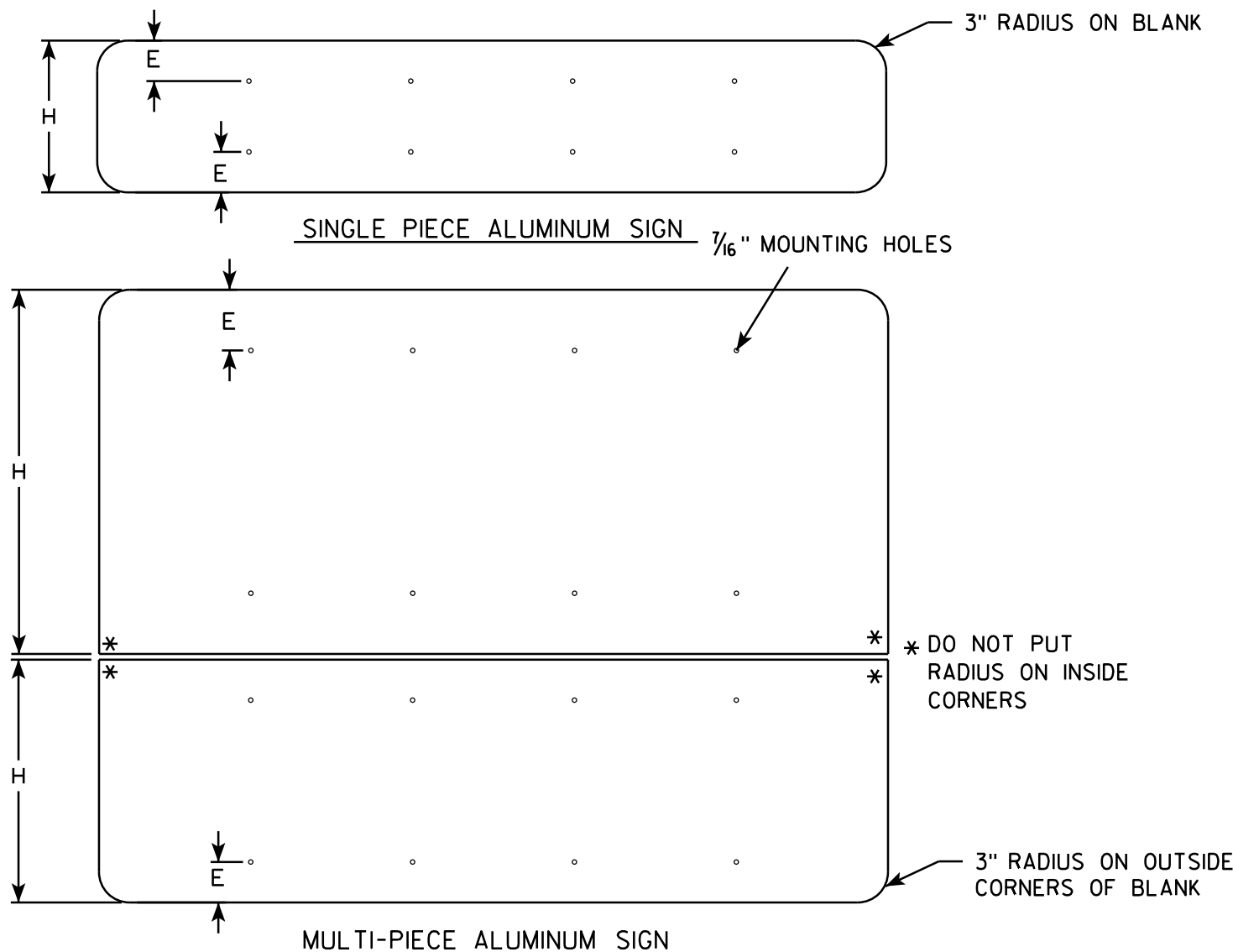
PROJECT NO:

HWY:

COUNTY:

SHEET NO:

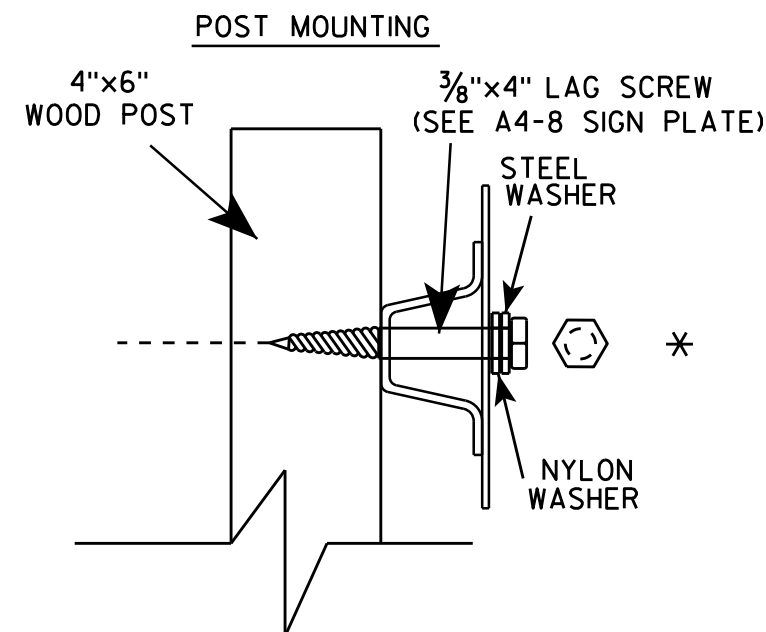
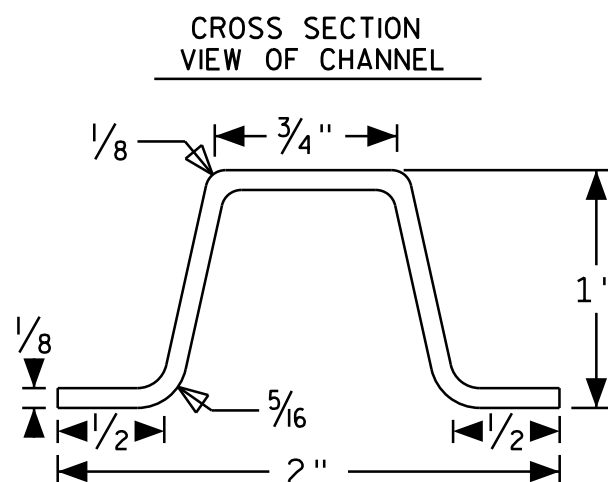
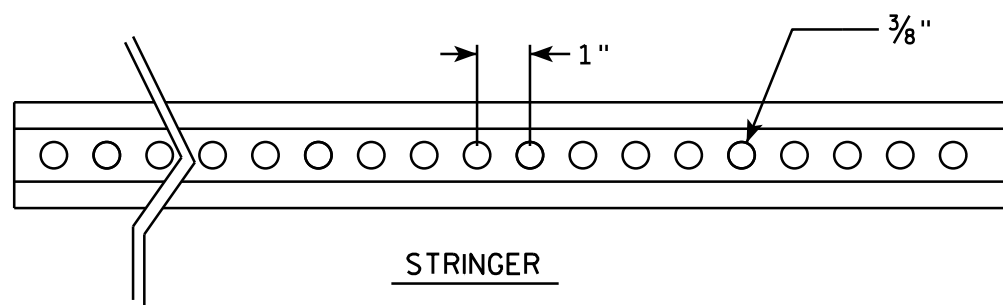
E



GENERAL NOTES

- ALL SIGNS OVER 60" IN WIDTH SHALL HAVE A 3" RADIUS ON THE OUTSIDE CORNERS OF THE ALUMINUM BLANK.
- MOUNTING HOLES SHALL BE 7/16" DIAMETER.
- SEE CHART FOR HOLE SPACING REQUIREMENTS
- FOR SIGN PANELS WITH DIMENSION (H) 36" AND OVER, DIMENSION E SHALL BE 6"
- FOR SIGN PANELS WITH DIMENSION (H) UNDER 36", DIMENSION E SHALL BE 4"
- SIGN STRINGER MATERIAL SHALL CONSIST OF STEEL CHANNEL POST SECTIONS, WEIGHING 1.12 LBS/FT IN ACCORDANCE WITH SECTION 633.2.1 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.
- SEE SIGN PLATE A4-8 FOR SIGN STRINGER BOLTING REQUIREMENTS.

SIGN WIDTH	STRINGER WIDTH	POSTS	HOLE SPACING	MOUNTING HOLES			
78"	72"	2	16"	15"	31"	47"	63"
84"	72"	2	17"	16 1/2"	33 1/2"	50 1/2"	67 1/2"
90"	72"	2	18"	18"	36"	54"	72"
96"	90"	2	19"	19 1/2"	38 1/2"	57 1/2"	76 1/2"
102"	90"	2	20"	21"	41"	61"	81"
108"	90"	2	21"	22 1/2"	43 1/2"	64 1/2"	85 1/2"
114"	108"	3	15"	12"	27"	42"	57" 72" 87" 102"
120"	108"	3	16"	12"	28"	44"	60" 76" 92" 108"
126"	108"	3	17"	12"	29"	46"	63" 80" 97" 114"
132"	126"	3	18"	12"	30"	48"	66" 84" 102" 120"
138"	126"	3	19"	12"	31"	50"	69" 88" 107" 126"
144"	126"	3	20"	12"	32"	52"	72" 92" 112" 132"



SIGN STRINGER MOUNTING REQUIREMENTS

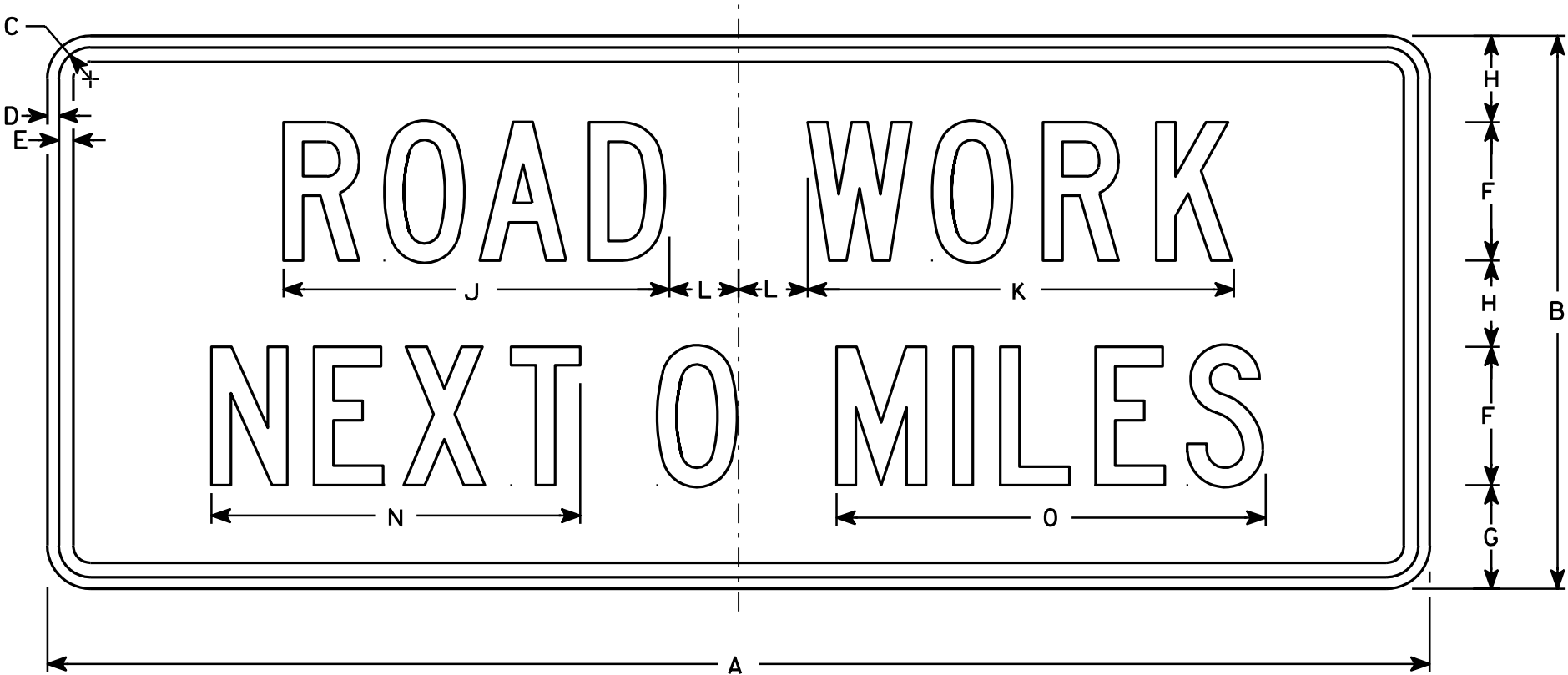
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 4/26/16 PLATE NO. A4-18.1

NOTES

- 1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:
Background - Orange
Message - Black
- 3. Message Series - C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance



G20-1

Metric equivalent
for this sign is:

SIZE	
1	
2	1500 mm X 600 mm
3	
4	1500 mm X 600 mm
5	

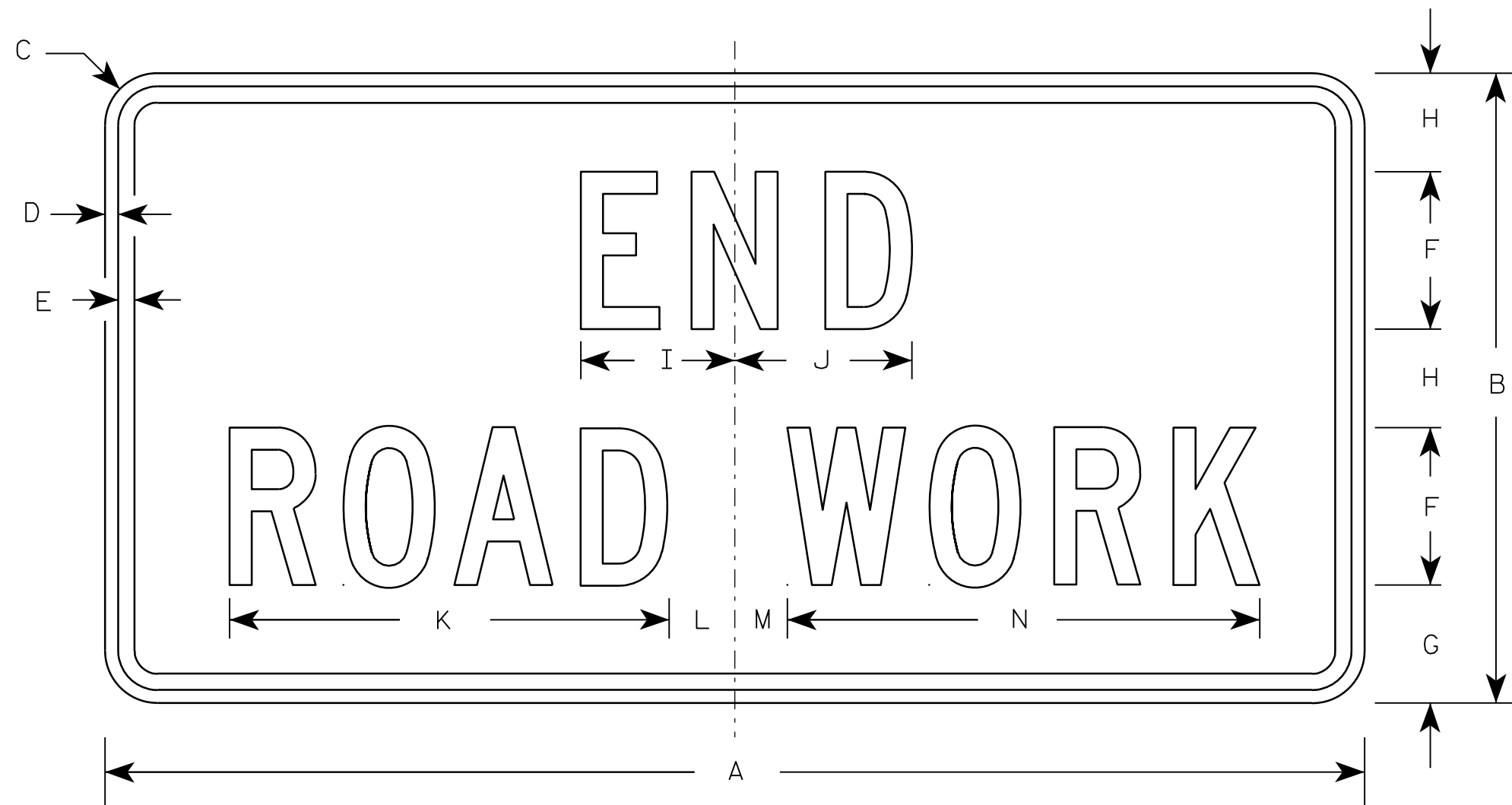
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m ²
1																												
2	60	24	1 3⁄8	1⁄2	5⁄8	6	4 1⁄2	3 3⁄4		16 3⁄4	18 1⁄2	3		16	18 5⁄8												10	.90
3																												
4	60	24	1 3⁄8	1⁄2	5⁄8	6	4 1⁄2	3 3⁄4		16 3⁄4	18 1⁄2	3		16	18 5⁄8												10	.90
5																												

STANDARD SIGN
G20-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED
Chris J. Spay
State Traffic Engineer
DATE 4/8/97 PLATE NO. G20-1.7

7



G20-2A

Metric equivalent
for this sign is:

SIZE	
1	900 mm X 450 mm
2	1200 mm X 600 mm
3	1200 mm X 600 mm
4	1200 mm X 600 mm
5	1200 mm X 600 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area sq. m.
1	36	18	1 1/8	3/8	1/2	4	3 3/4	2 1/2	4 1/8	4 1/8	11 1/8	2	1	12 1/8													4.5	0.41
2	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
3	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
4	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
5	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72

NOTES

- Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- Color:
Background - Orange
Message - Black
- Message Series - C
- 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

PROJECT NO:

HWY:

COUNTY:

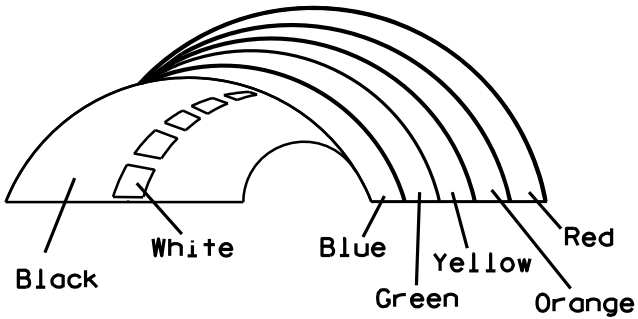
SHEET NO:

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:

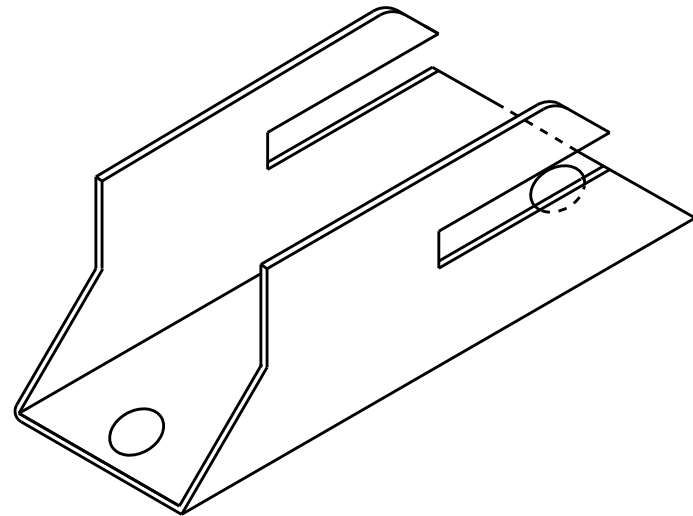
STANDARD SIGN
I55-56

WISCONSIN DEPT OF TRANSPORTATION

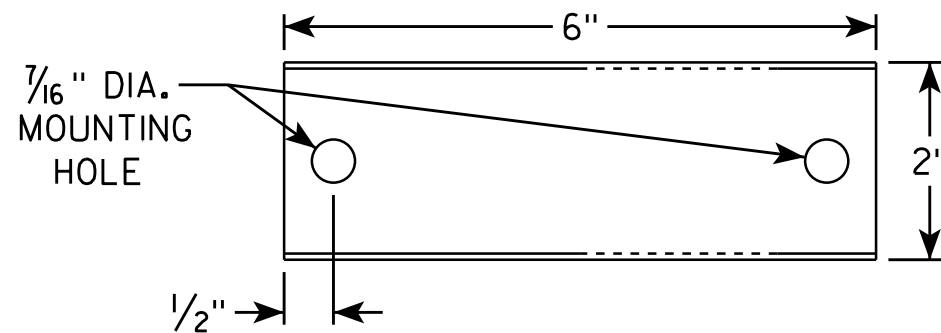
APPROVED *Matthew R. Rauch*
For State Traffic Engineer

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

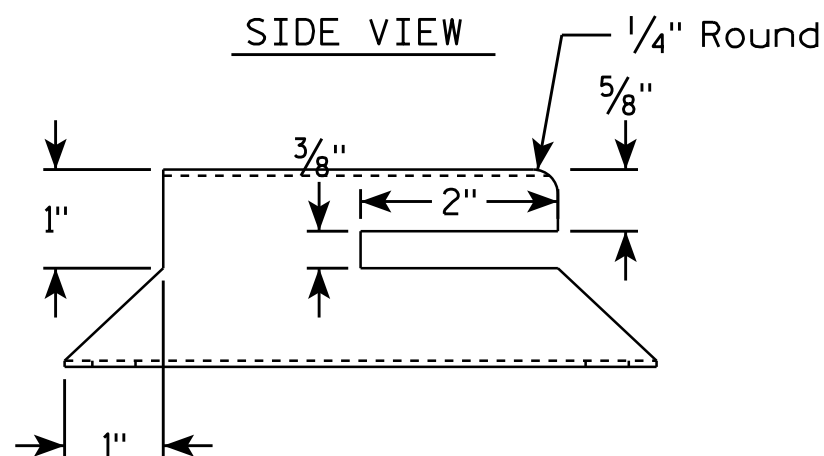
ISOMETRIC VIEW



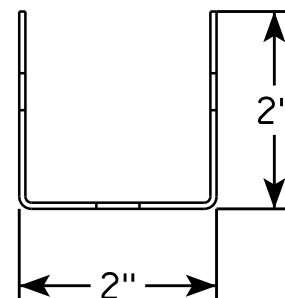
TOP VIEW



SIDE VIEW



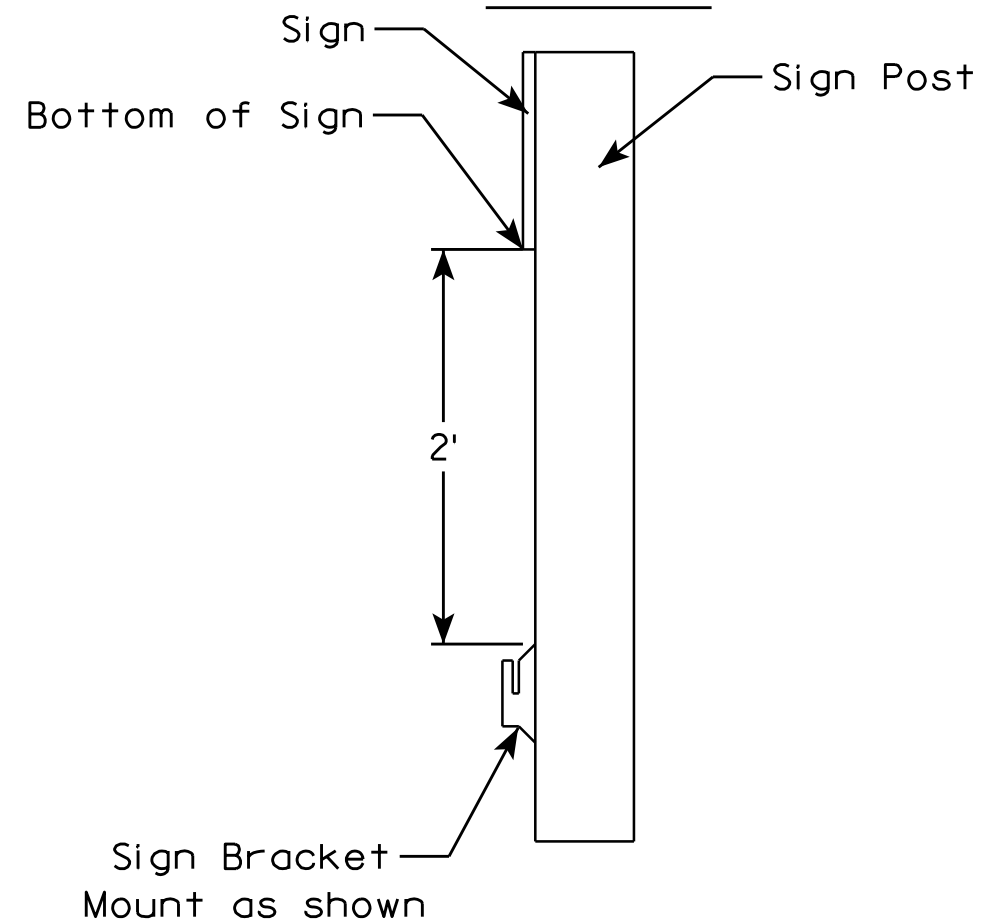
END VIEW



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.

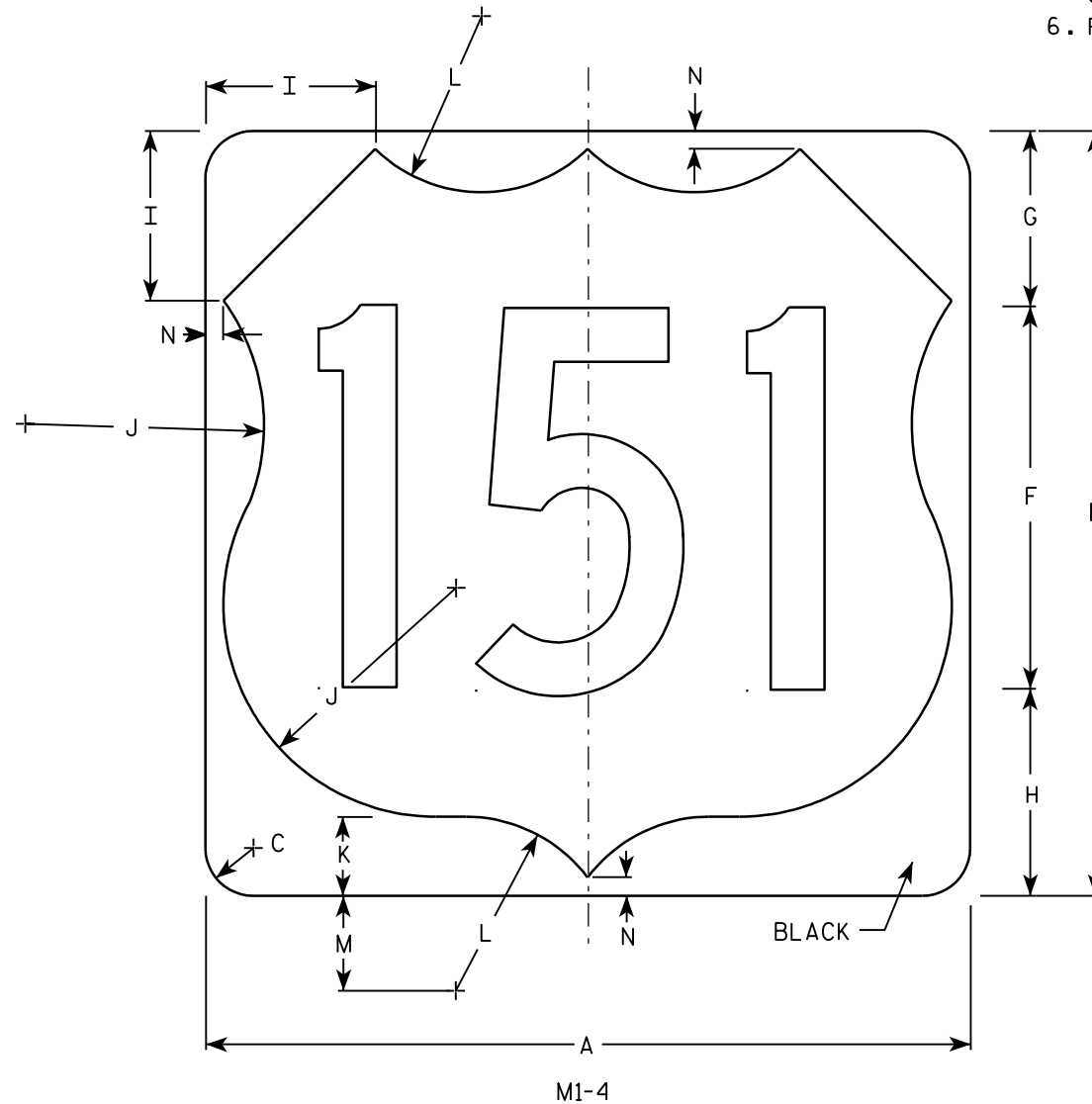
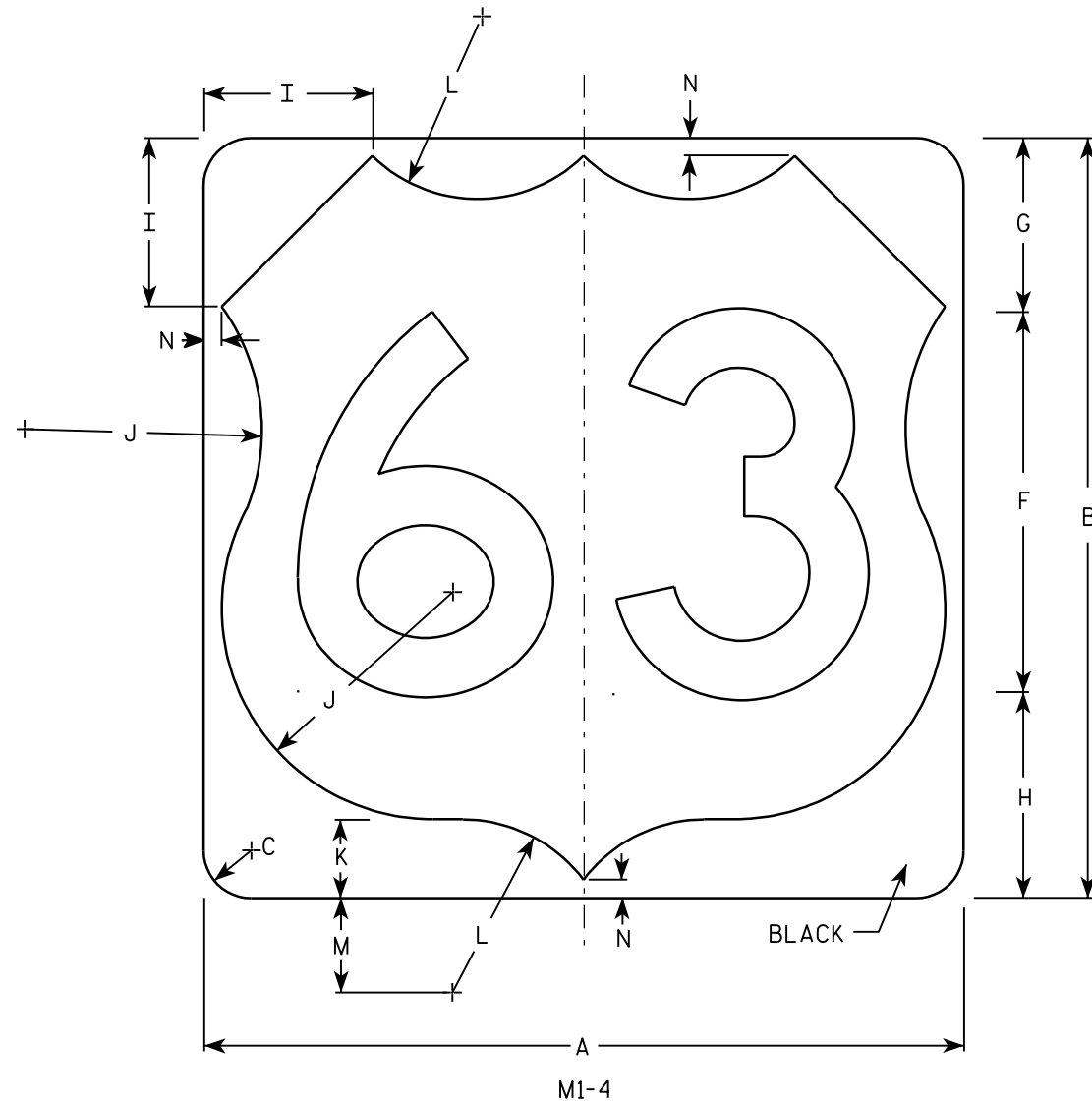
SIDE VIEW



ROLLUP SIGN BRACKET I55-56B	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R. Rauch</i> for State Traffic Engineer
DATE 4/26/16	PLATE NO. I55-56B.2

NOTES

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



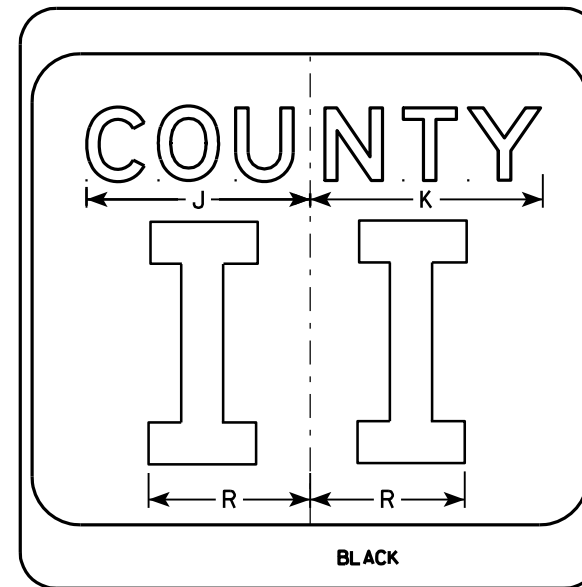
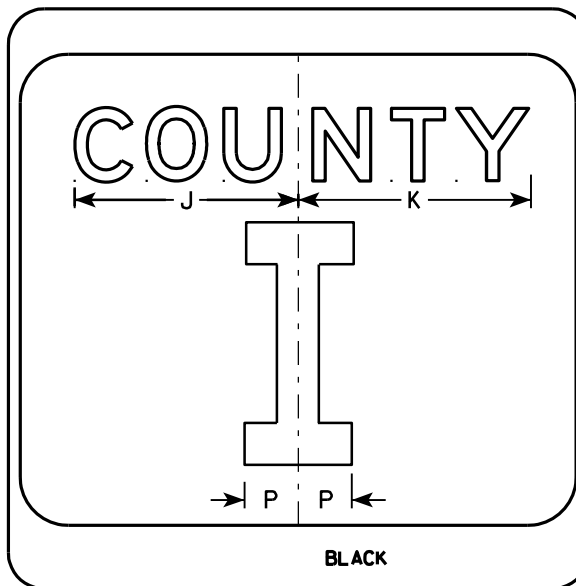
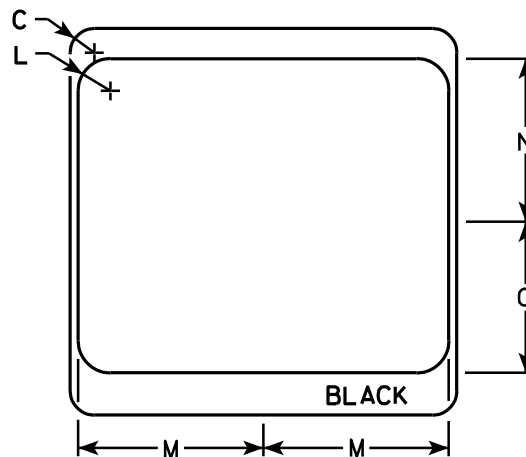
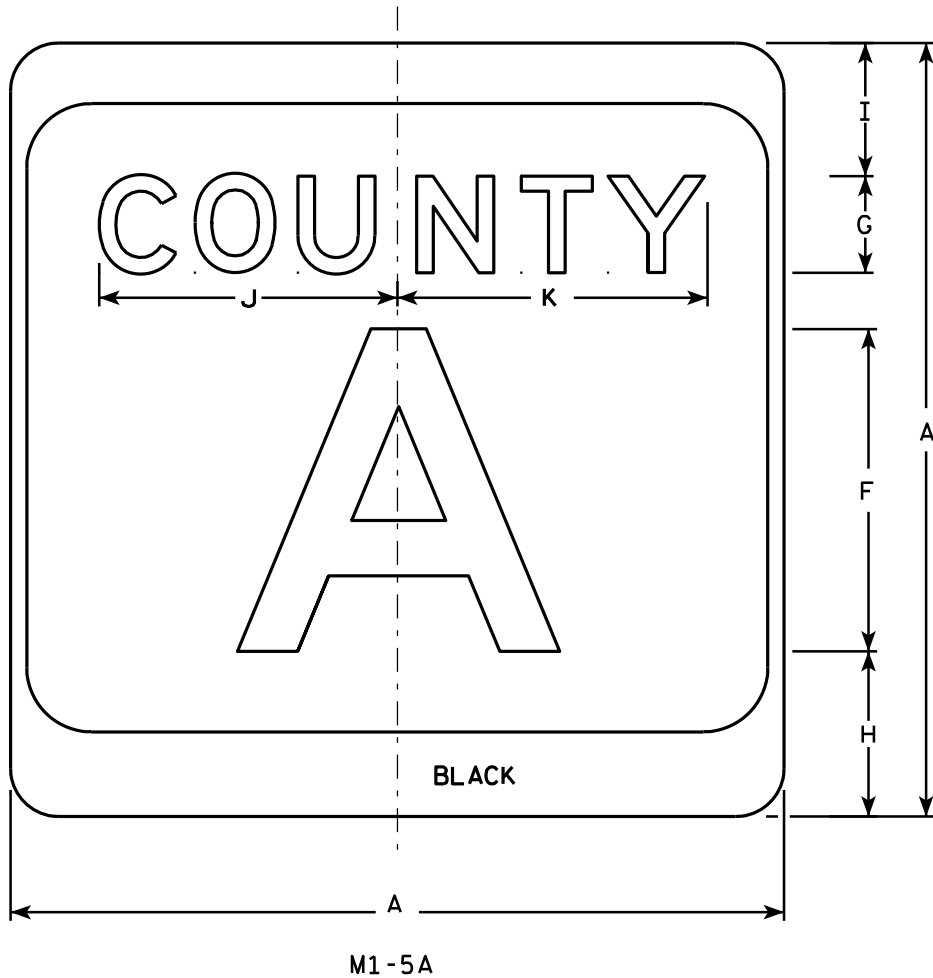
Metric equivalent
for this sign is:

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

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

PROJECT NO: HWY: COUNTY: SHEET NO: 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

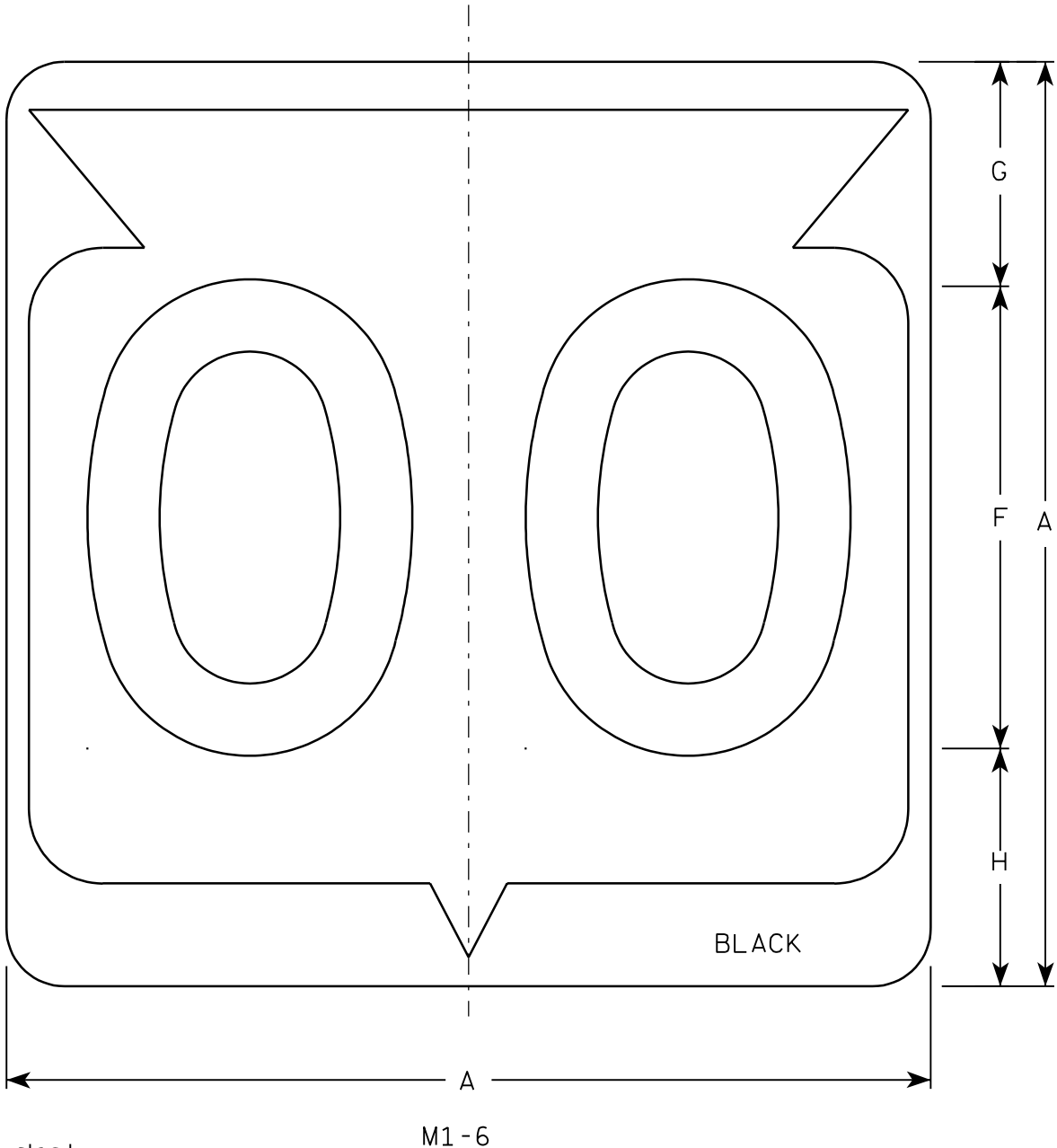
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 5/8	2	11 1/2	10 1/8	9 3/8	2 1/4		6 5/8									4.0
3	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
4	36		2 1/4			16	4	7 5/8	5 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:	E
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7

7



Metric equivalent
for this sign is:

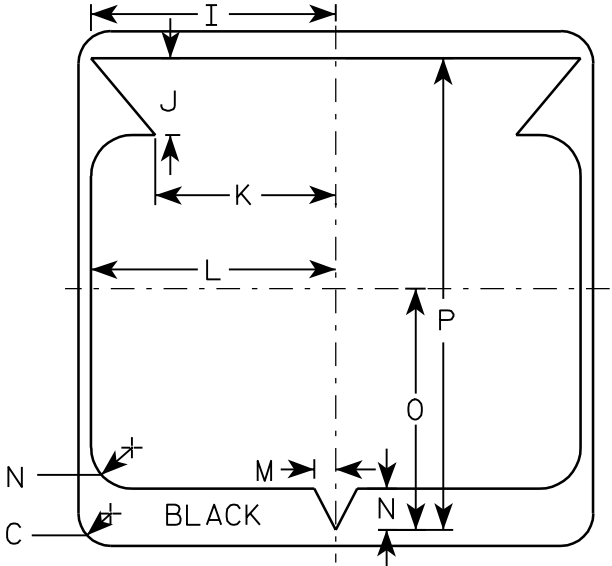
SIZE	
1	
2	600 mm X 600 mm
3	900 mm X 900 mm
4	900 mm X 900 mm
5	900 mm X 900 mm

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:	E
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NOTES

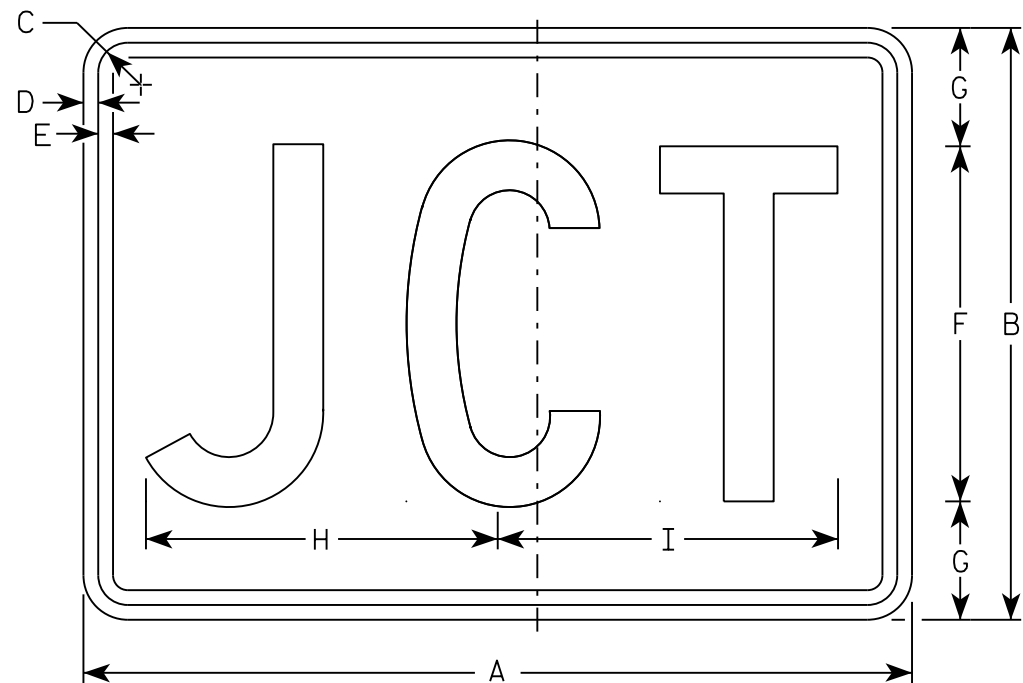
1. Sign is Type II - See Note 6 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - White & Black - See Note 6
Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders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



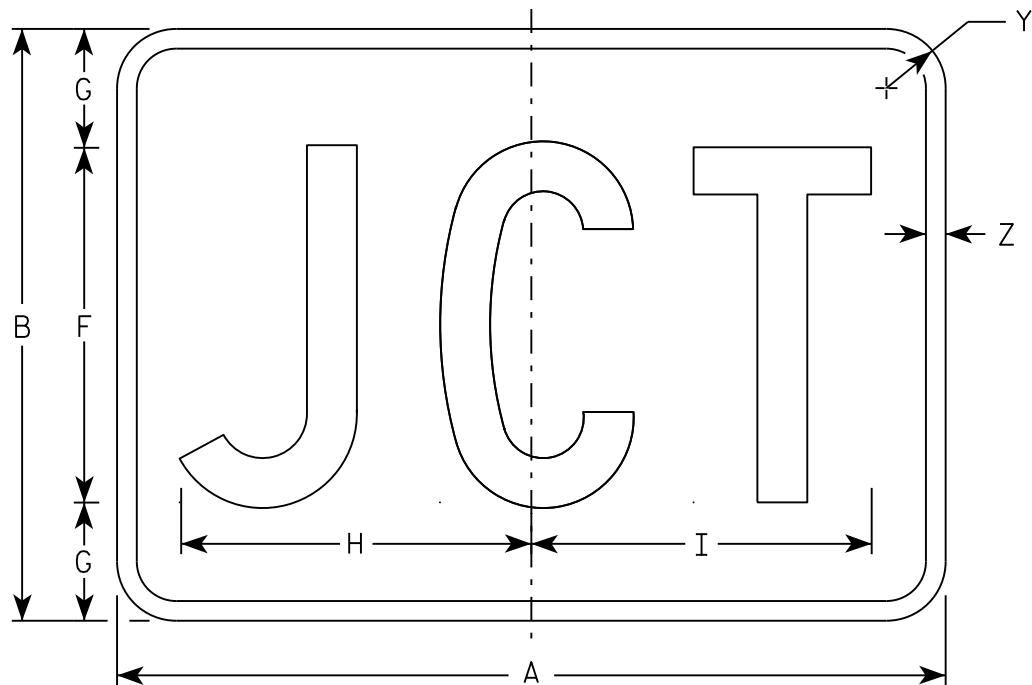
STATE ROUTE MARKER
M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED
Chester J. Spang
for State Traffic Engineer
DATE 3/20/02 PLATE NO. M1-6.9



M2-1
MM2-1
MP2-1



MB2-1
MK2-1
MN2-1
MR2-1

NOTES

- 1. Sign is Type II - Type H
- 2. Color:
 - Background - See note 5
 - Message - See note 5
- 3. Message Series - C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. M2-1 Background - White
 Message - Black
 MB2-1 Background - Blue
 Message - White
 MK2-1 Background - Green
 Message - White
 MM2-1 Background - White
 Message - Green
 MN2-1 Background - Brown
 Message - White
 MP2-1 Background - White
 Message - Blue
 MR2-1 Background - Brown
 Message - Yellow

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21	15	1 1/8	3/8	3/8	9	3	8 7/8	8 5/8																1 1/2	1/2	2.20
3	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40
4	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40
5	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40

STANDARD SIGN

M2 - 1

WISCONSIN DEPT OF TRANSPORTATION

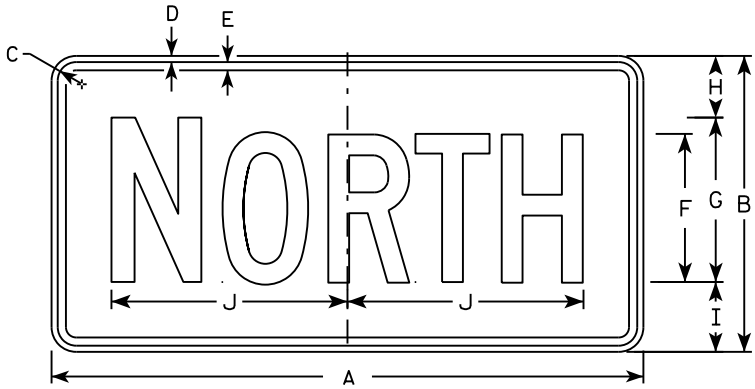
APPROVED

Matthew R. Rauch

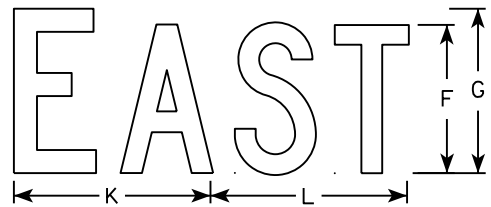
For State Traffic Engineer

DATE 10/15/15

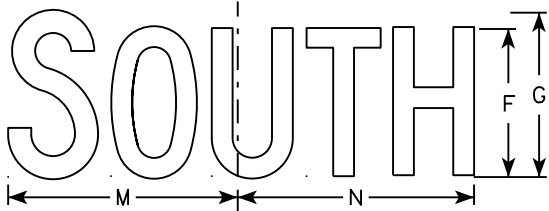
PLATE NO. M2-1.12



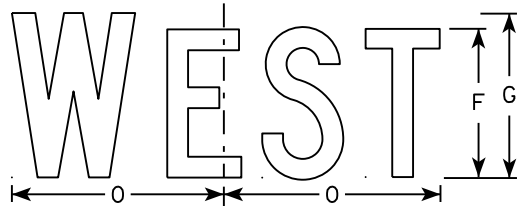
M3-1
MM3-1
MP3-1



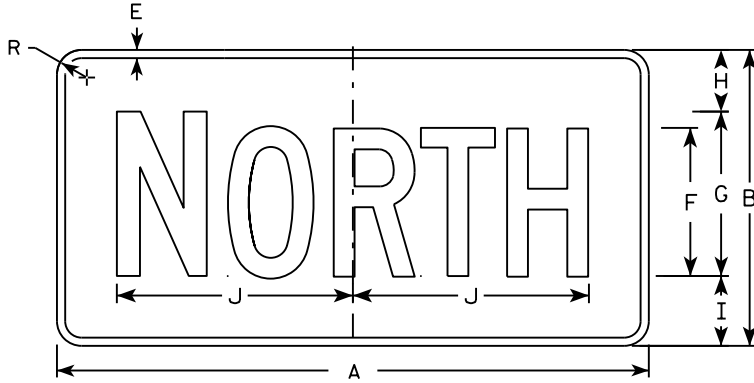
M3-2
MM3-2
MP3-2



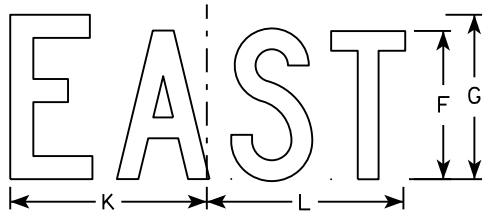
M3-3
MM3-3
MP3-3



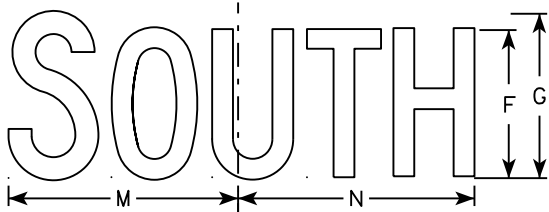
M3-4
MM3-4
MP3-4



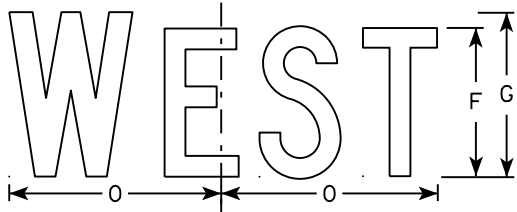
MB3-1
MK3-1
MN3-1



MB3-2
MK3-2
MN3-2



MB3-3
MK3-3
MN3-3



MB3-4
MK3-4
MN3-4

NOTES

1. All Signs Type II - Type H
2. Color:
Background - See note 5
Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M3-1 thru M3-4 Background - White
Message - Black
MB3-1 thru MB3-4 Background - Blue
Message - White
MK3-1 thru MK3-4 Background - Green
Message - White
MM3-1 thru MM3-4 Background - White
Message - Green
MN3-1 thru MN3-4 Background - Brown
Message - White
MP3-1 thru MP3-4 Background - White
Message - Blue
6. Note the first letter of each direction is larger than the remainder of the message.

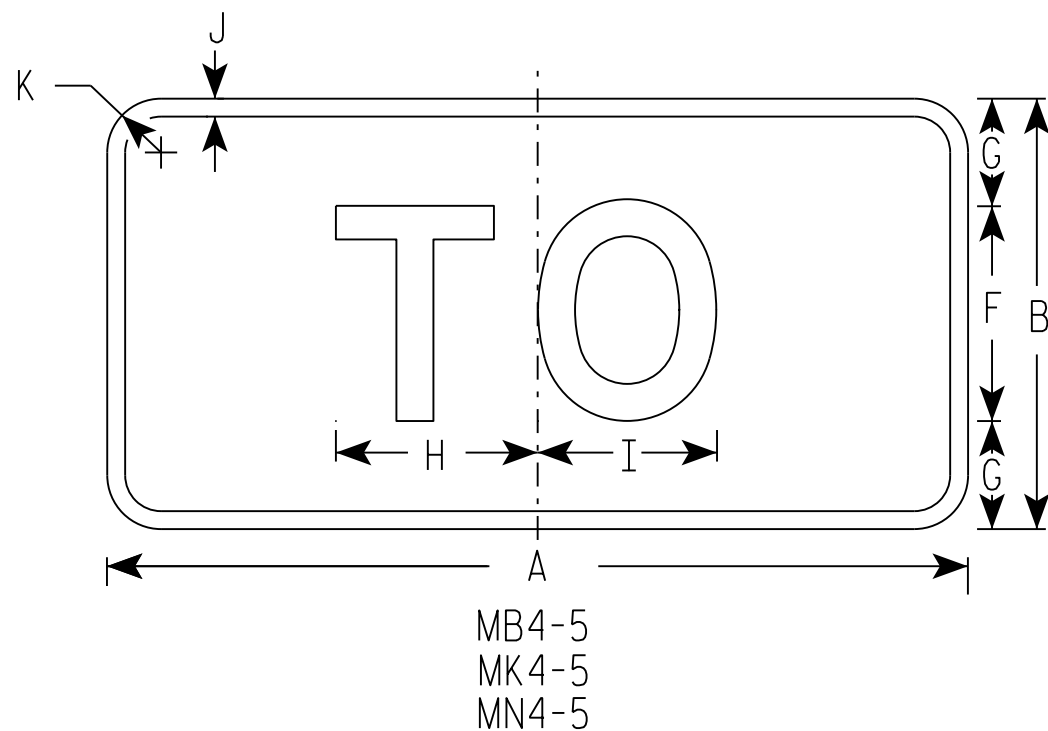
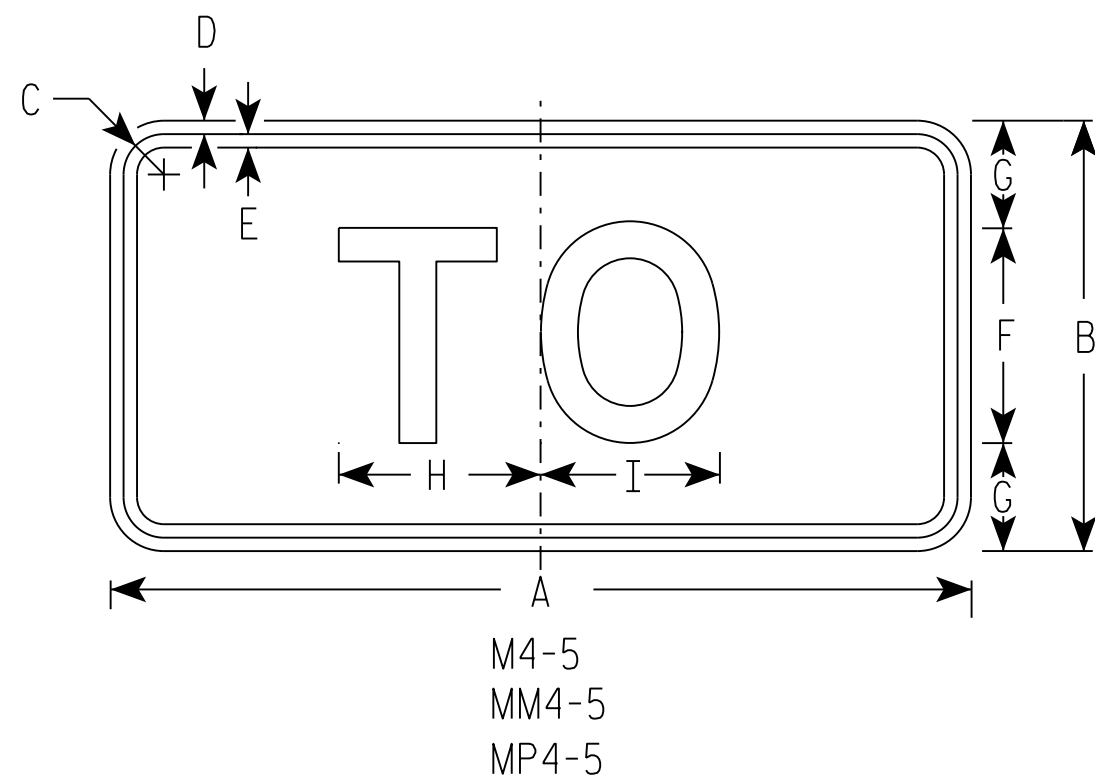
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 7/8	8 3/8	10 1/4	9 3/4	8 3/4			1 1/2									2.00
3	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
4	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
5	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5

STANDARD SIGNS
M3-1 thru M3-4
SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED
Matthew R. Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE NO. M3-1.14



NOTES

1. Sign is Type II - Type H
2. Color:
Background - See note 5
Message - See note 5
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M4-5 Background - White
Message - Black
MB4-5 Background - Blue
Message - White
MK4-5 Background - Green
Message - White
MM4-5 Background - White
Message - Green
MN4-5 Background - Brown
Message - White
MP4-5 Background - White
Message - Blue

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	3	5 3/8	5 1/4	1/2	1 1/2																2.00
3	36	18	1 3/8	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2	1 1/2																4.5
4	36	18	1 3/8	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2	1 1/2																4.5
5	36	18	1 3/8	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2	1 1/2																4.5

STANDARD SIGN

M4 - 5

WISCONSIN DEPT OF TRANSPORTATION

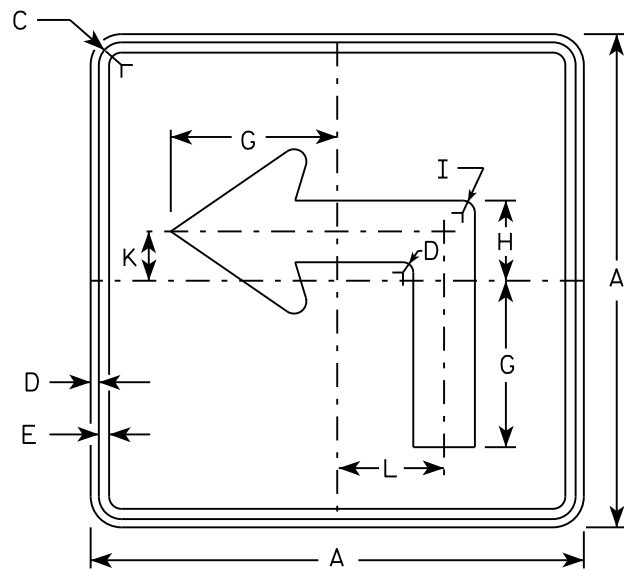
APPROVED

Matthew R. Rauch

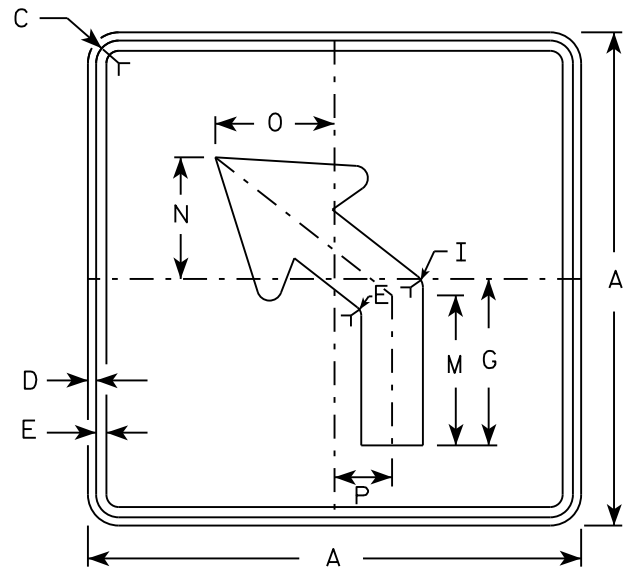
for State Traffic Engineer

DATE 10/15/15

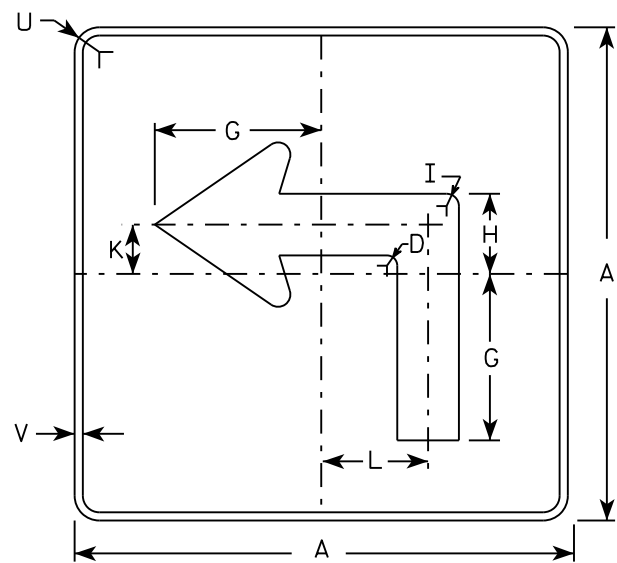
PLATE NO. M4-5.8



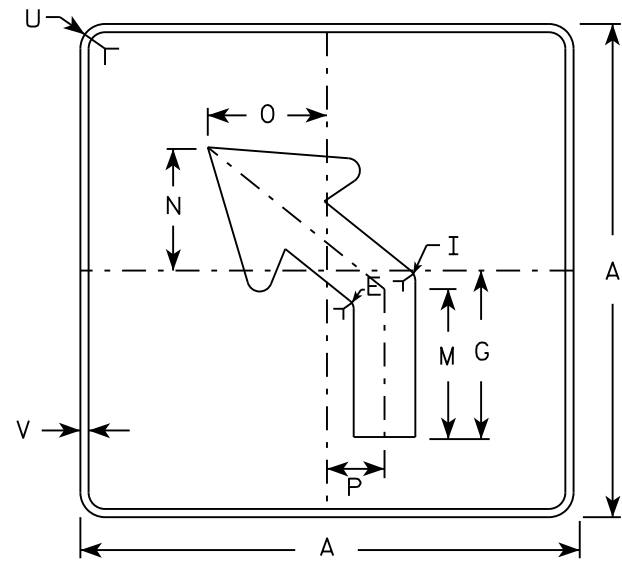
M5-1L
MM5-1L
M05-1L
MP5-1L



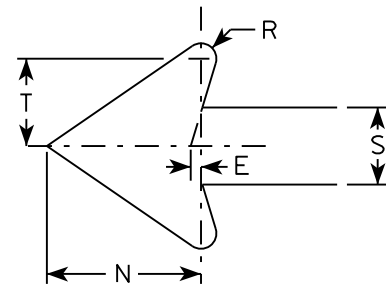
M5-2L
MM5-2L
M05-2L
MP5-2L



MB5-1L
MK5-1L
MN5-1L
MR5-1L



MB5-2L
MK5-2L
MN5-2L
MR5-2L



NOTES

- Signs are Type II - Type H reflective 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.
- | | |
|-----------------|---|
| M5-1 and M5-2 | Background - White |
| | Message - Black |
| MB5-1 and MB5-2 | Background - Blue |
| | Message - White |
| MK5-1 and MK5-2 | Background - Green |
| | Message - White |
| MM5-1 and MM5-2 | Background - White |
| | Message - Green |
| MN5-1 and MN5-2 | Background - Brown |
| | Message - White |
| M05-1 and M05-2 | Background - Orange - Type F Reflective |
| | Message - Black |
| MP5-1 and MP5-2 | Background - White - Type H Reflective |
| | Message - Blue |
| MR5-1 and MR5-2 | Background - Brown |
| | Message - Yellow |
- M5-1R same as M5-1L except arrow points right.
- M5-2R same as M5-2L except arrow tilts right.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3	1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25

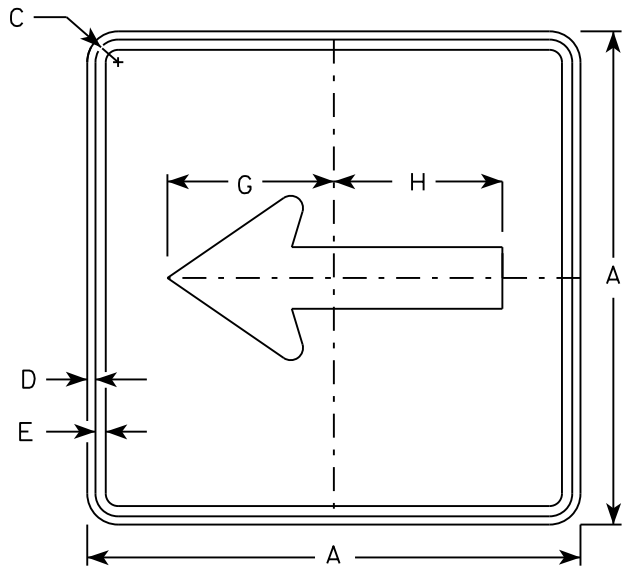
PROJECT NO:	HWY:	COUNTY:	SHEET NO:	E
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STANDARD SIGN
M5-1 & M5-2

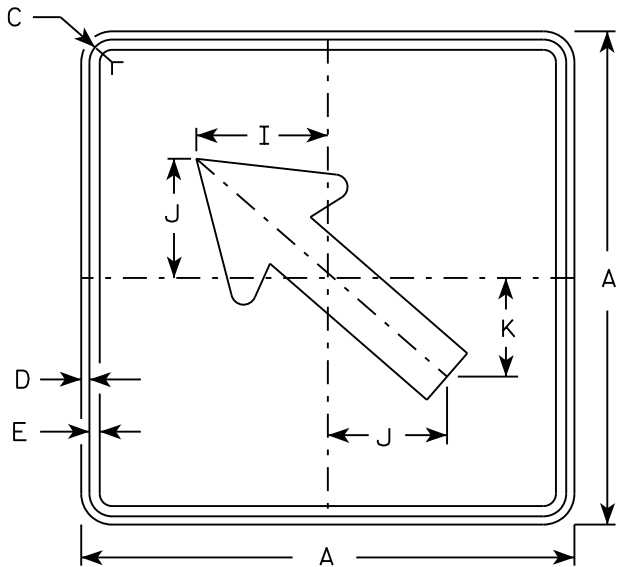
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

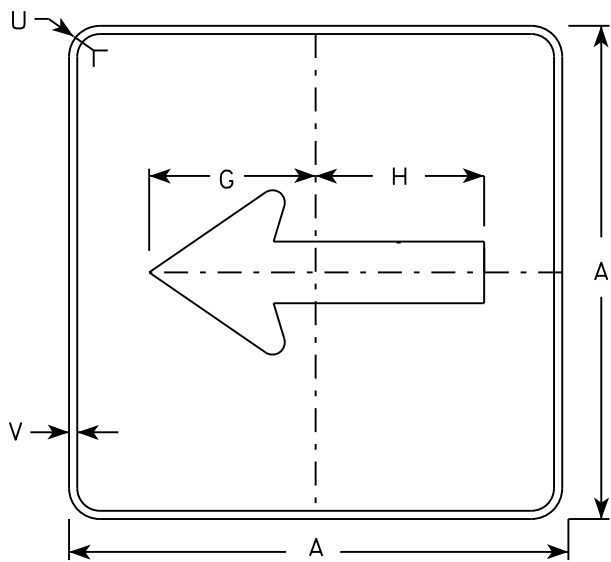
DATE 10/15/15 PLATE NO. M5-1.13



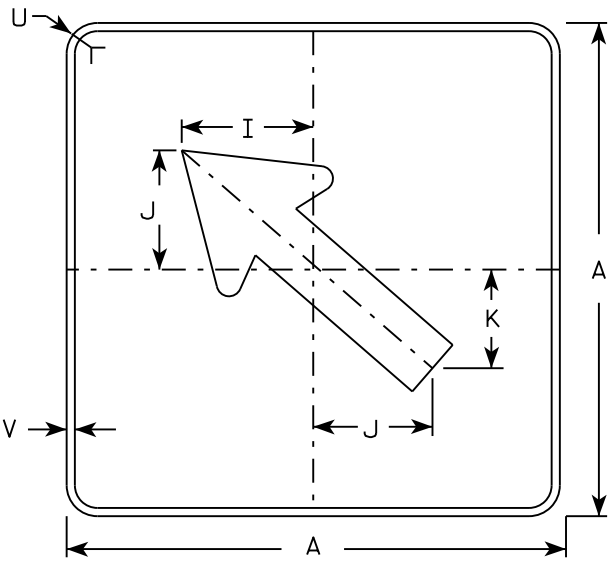
M6 - 1
MM6 - 1
M06 - 1
MP6 - 1



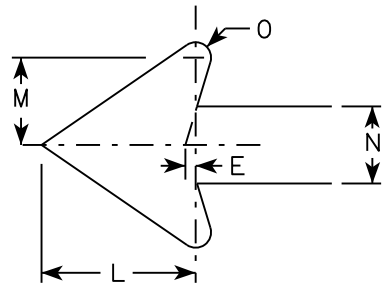
M6 - 2
MM6 - 2
M06 - 2
MP6 - 2



MB6 - 1
MK6 - 1
MN6 - 1
MR6 - 1



MB6 - 2
MK6 - 2
MN6 - 2
MR6 - 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
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	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2						1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25

PROJECT NO:

HWY:

COUNTY:

SHEET NO:

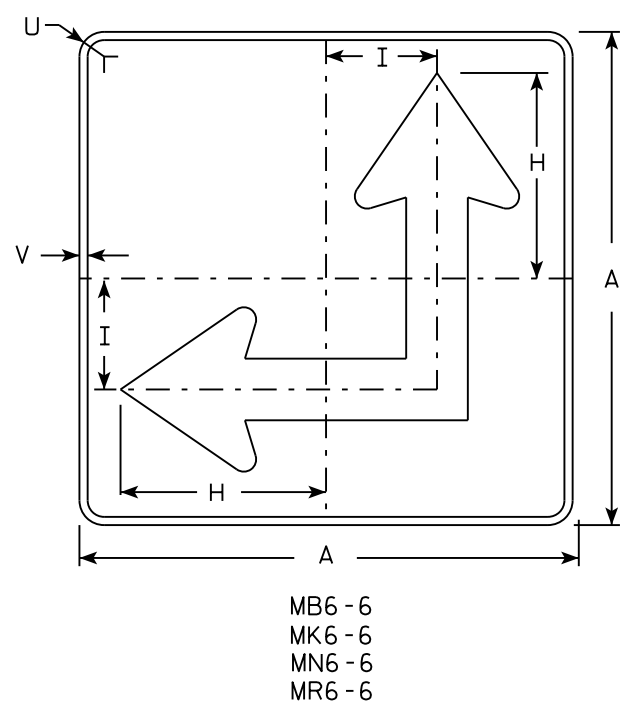
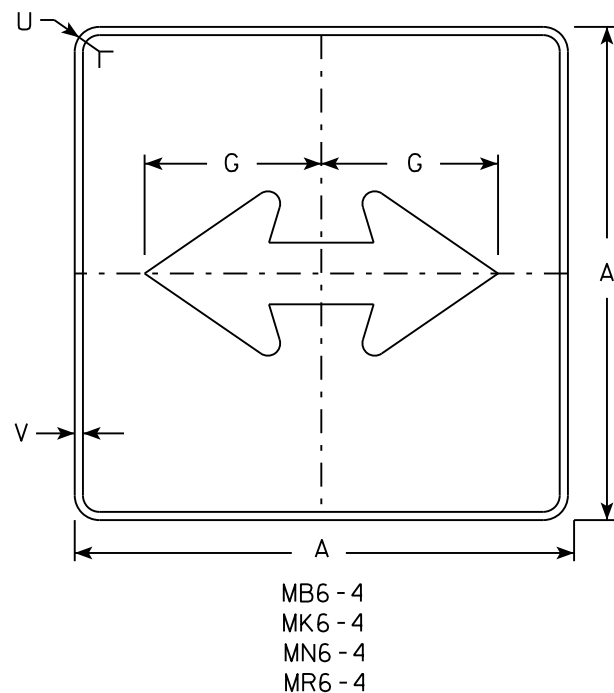
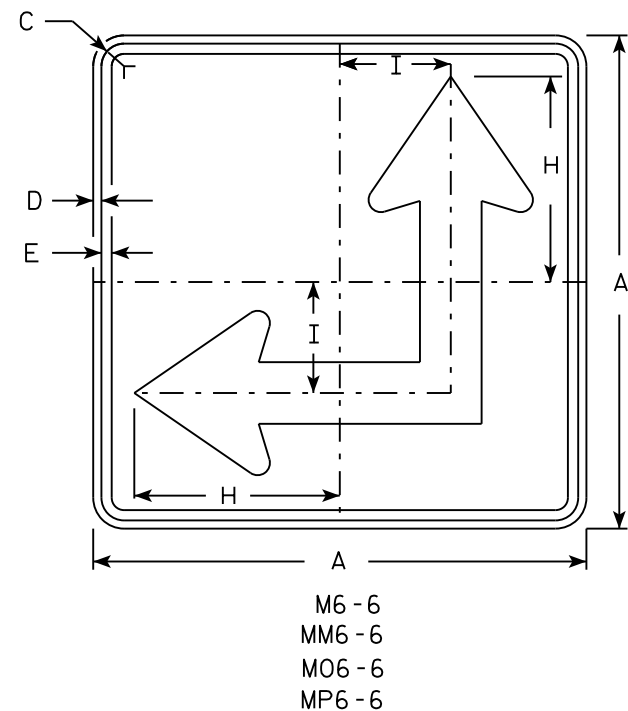
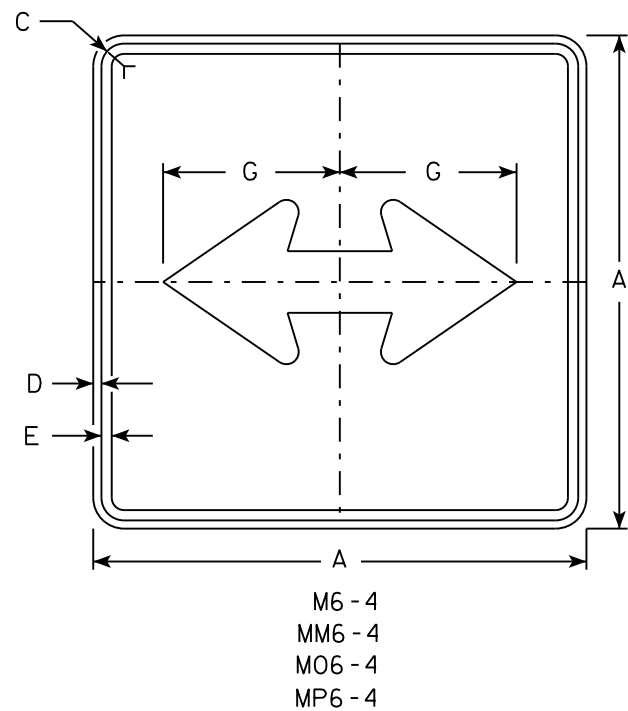
E

STANDARD SIGN
M6 - 1 & M6 - 2
SERIES

WISCONSIN DEPT OF TRANSPORTATION

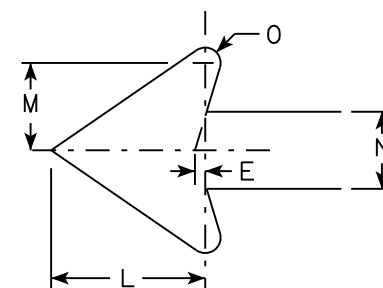
APPROVED
Matthew R. Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE NO. M6-1.15



NOTES

1. Signs are Type II - Type H except as Shown
2. Color:
Background - See Note 4
Message - See Note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-4 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
M06-4 and M06-6 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
5. 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

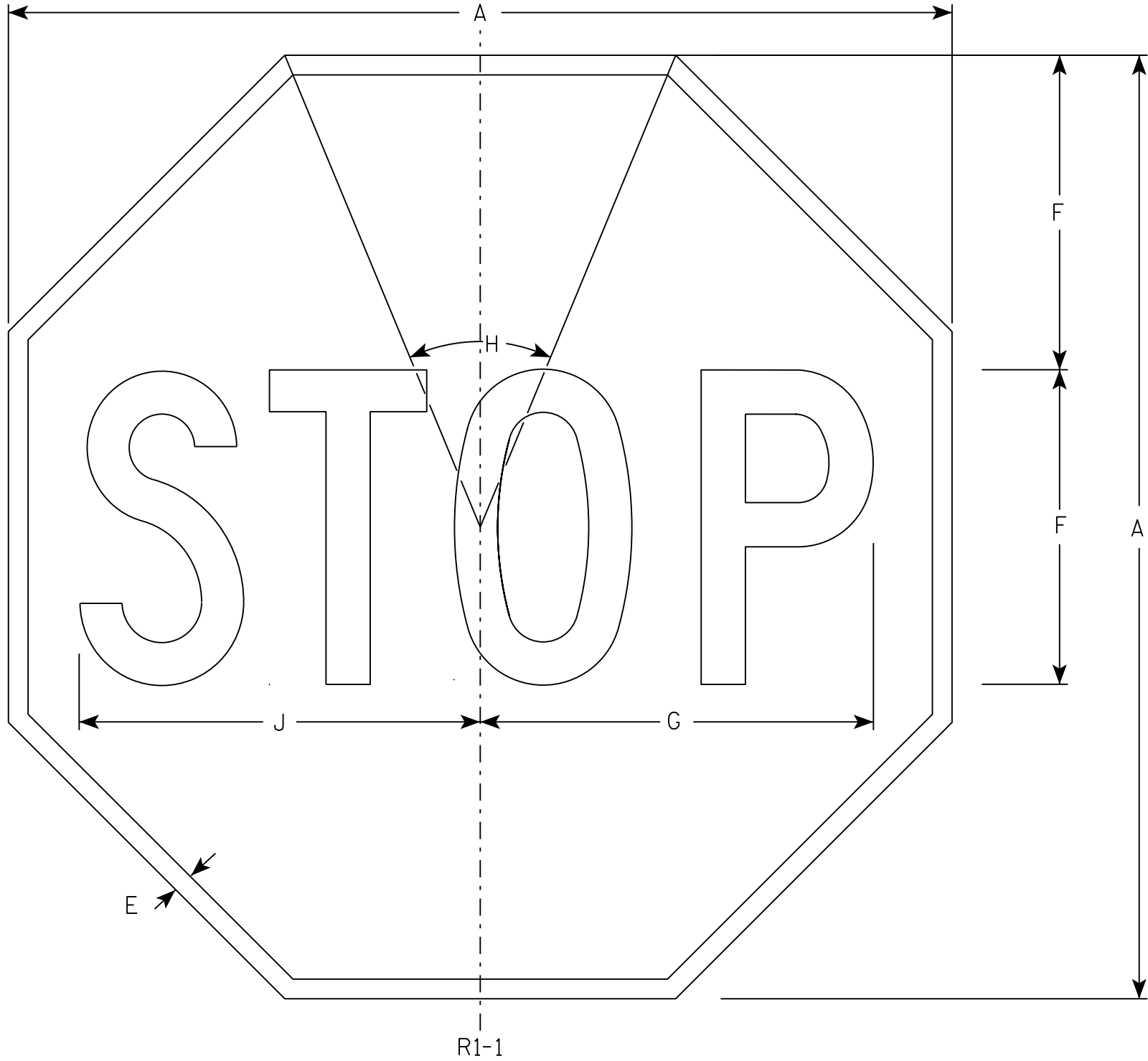
PROJECT NO:	HWY:	COUNTY:	SHEET NO:	E
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STANDARD SIGN
M6 - 4 & M6 - 6
SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 10/15/15 PLATE NO. M6-4.10



NOTES

- 1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:
Background - Red
Message - White
- 3. Message Series - C

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2S	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2M	36				3/4	12	15	45°		15 3/8																	7.46
3	36				3/4	12	15	45°		15 3/8																	7.46
4	48				1	16	20	45°		20 1/2																	13.25
5	48				1	16	20	45°		20 1/2																	13.25
6	18				3/8	6	7 3/4	45°		7 3/4																	1.86
7	12				1/4	4	5	45°		5 1/8																	0.78

STANDARD SIGN

R1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

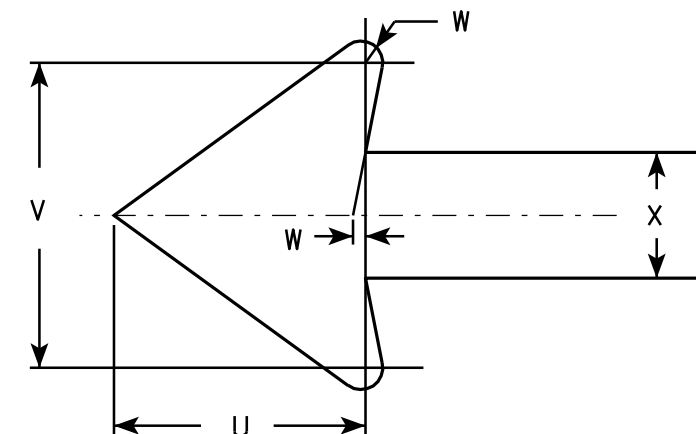
DATE 11/12/15 PLATE NO. R1-1.13



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																											

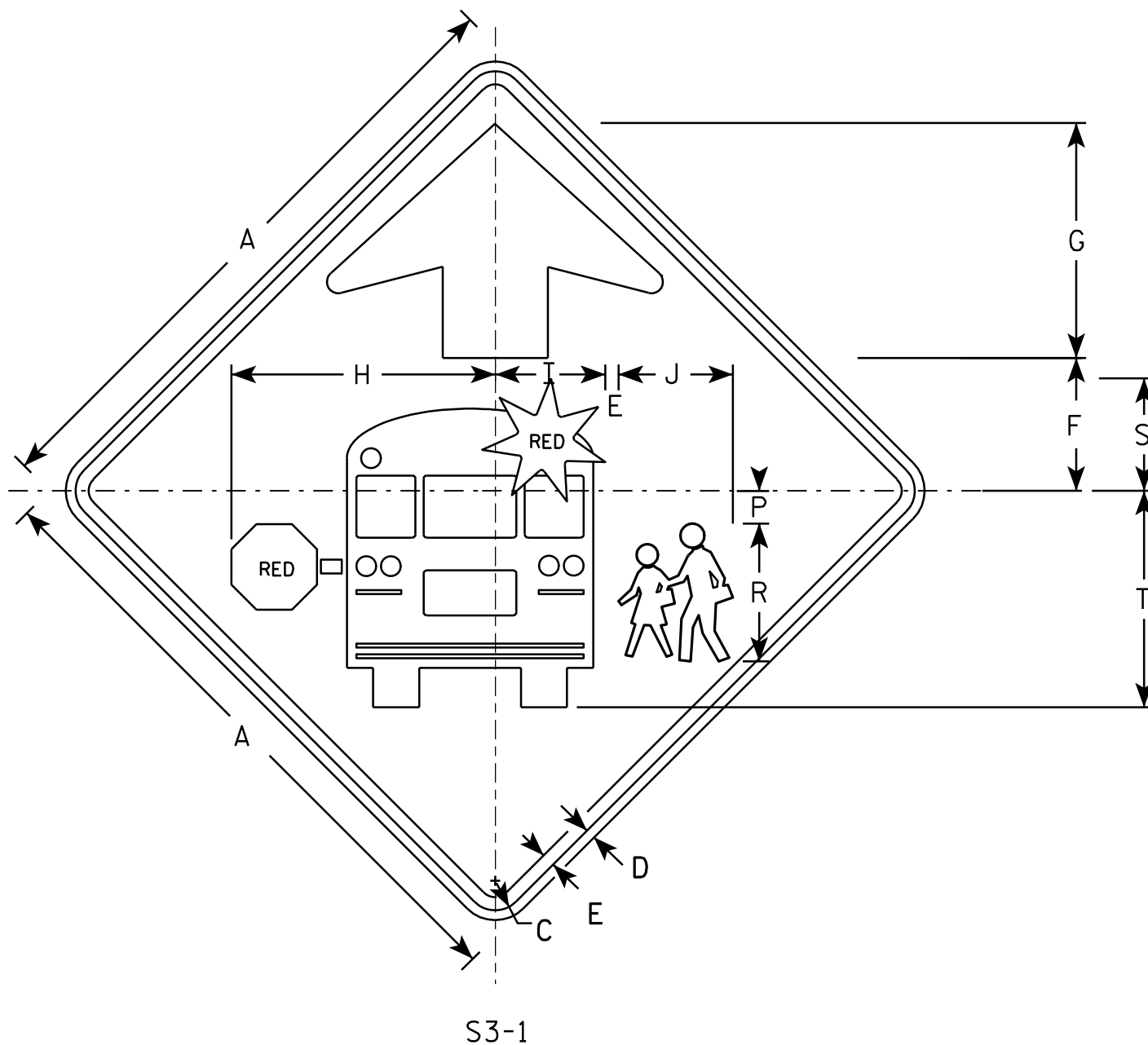
STANDARD SIGN R7-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

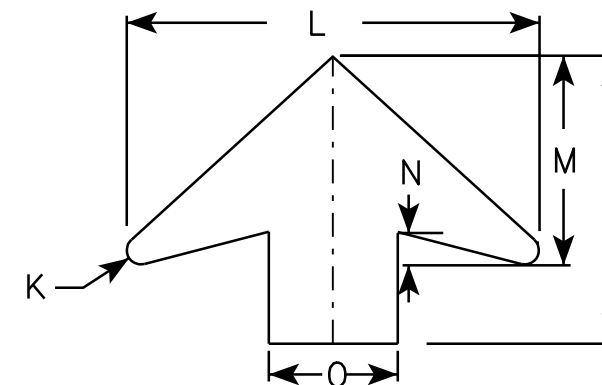
DATE 3/31/2011 PLATE NO. R7-1.9

PROJECT NO: HWY: COUNTY: SHEET NO: E

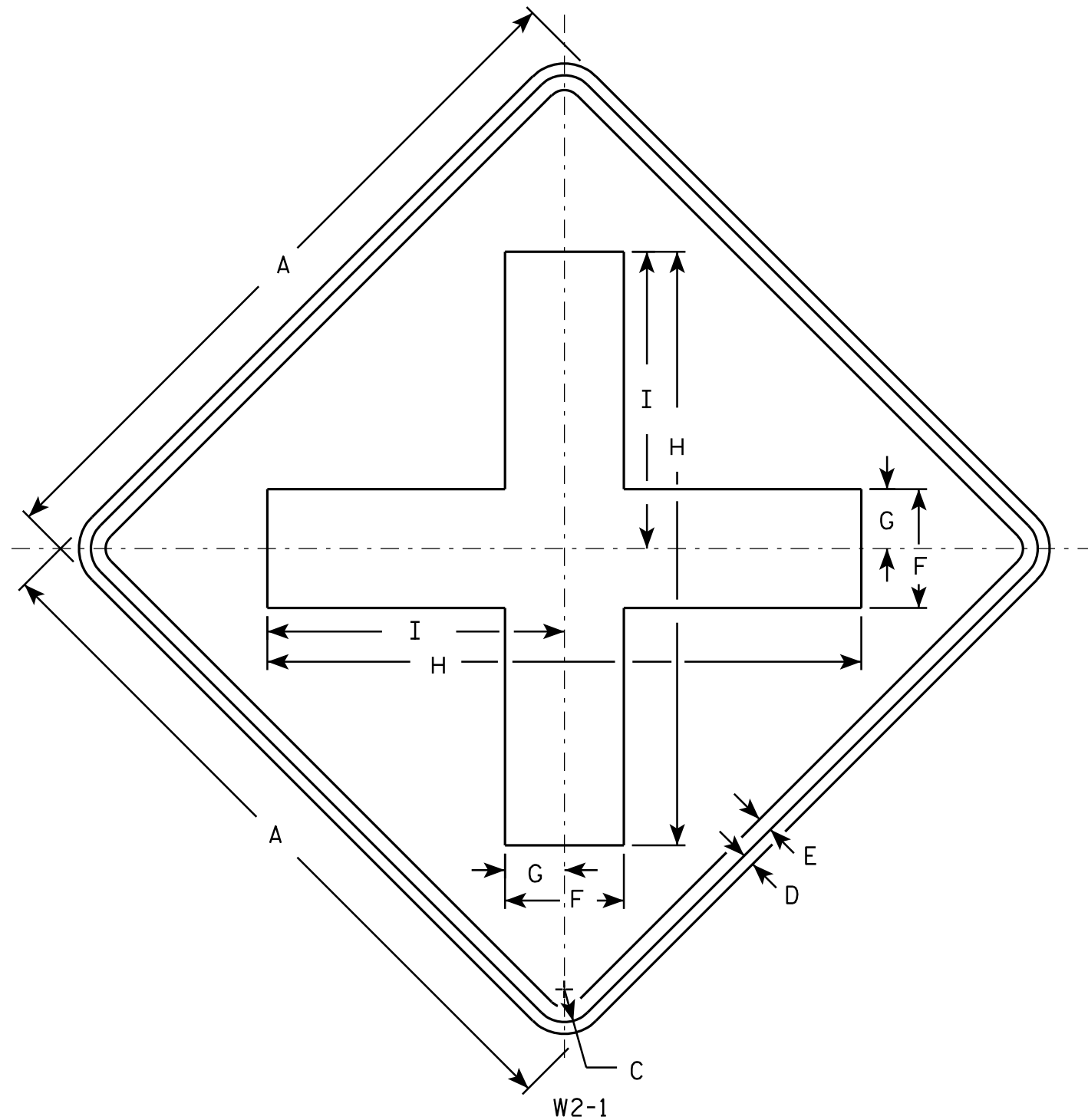


NOTES

1. All Signs Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
 - Background - YELLOW-GREEN
 - Message - BLACK except as noted
 - Circles except PEDS- RED BACKGROUND
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.

[illegible]

STANDARD SIGN	
S3-1	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<u>Matthew R. Rauch</u> for State Traffic Engineer
DATE <u>6/8/10</u>	PLATE NO. <u>S3-16</u>



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Yellow
Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	4	2	20	10																		4.0
2S	30		1 3/8	1/2	5/8	5	2 1/2	25	12 1/2																		6.25
2M	30		1 3/8	1/2	5/8	5	2 1/2	25	12 1/2																		6.25
3	36		1 5/8	5/8	3/4	6	3	30	15																		9.0
4	48		2 1/4	3/4	1	8	4	40	20																		16.0
5																											

STANDARD SIGN

W2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 5/29/12 PLATE NO. W2-1.9

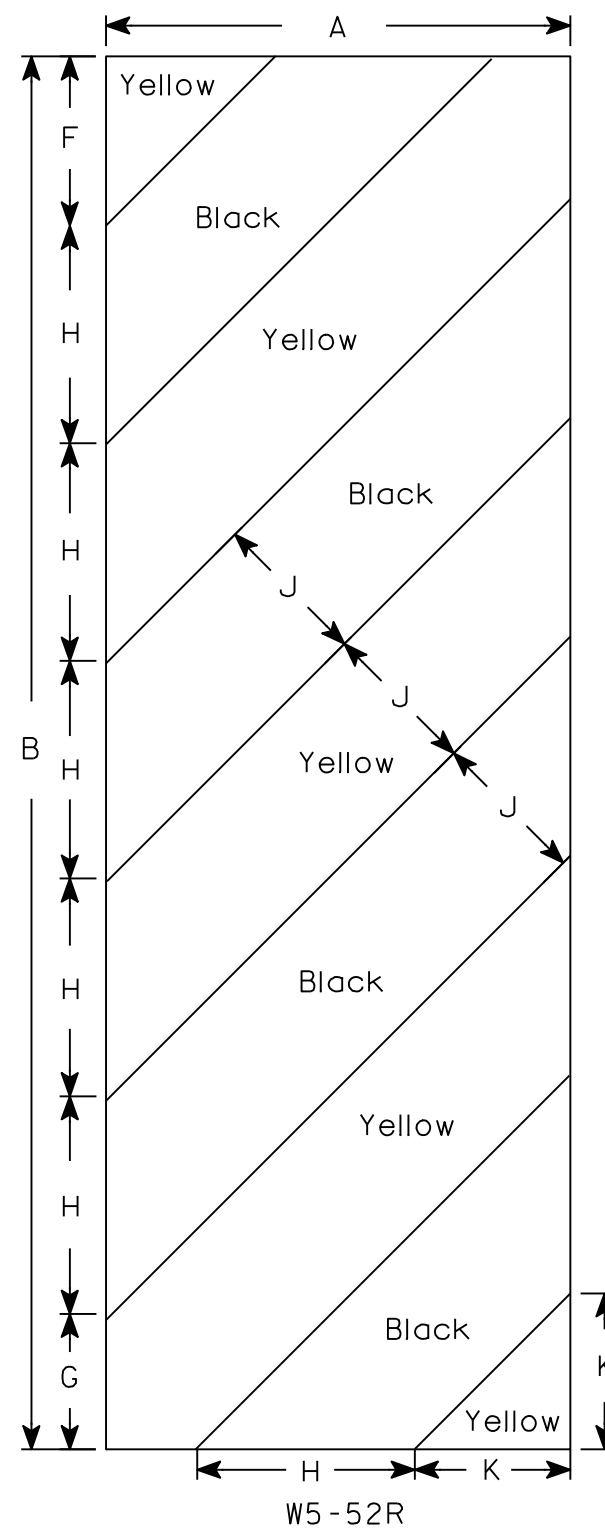
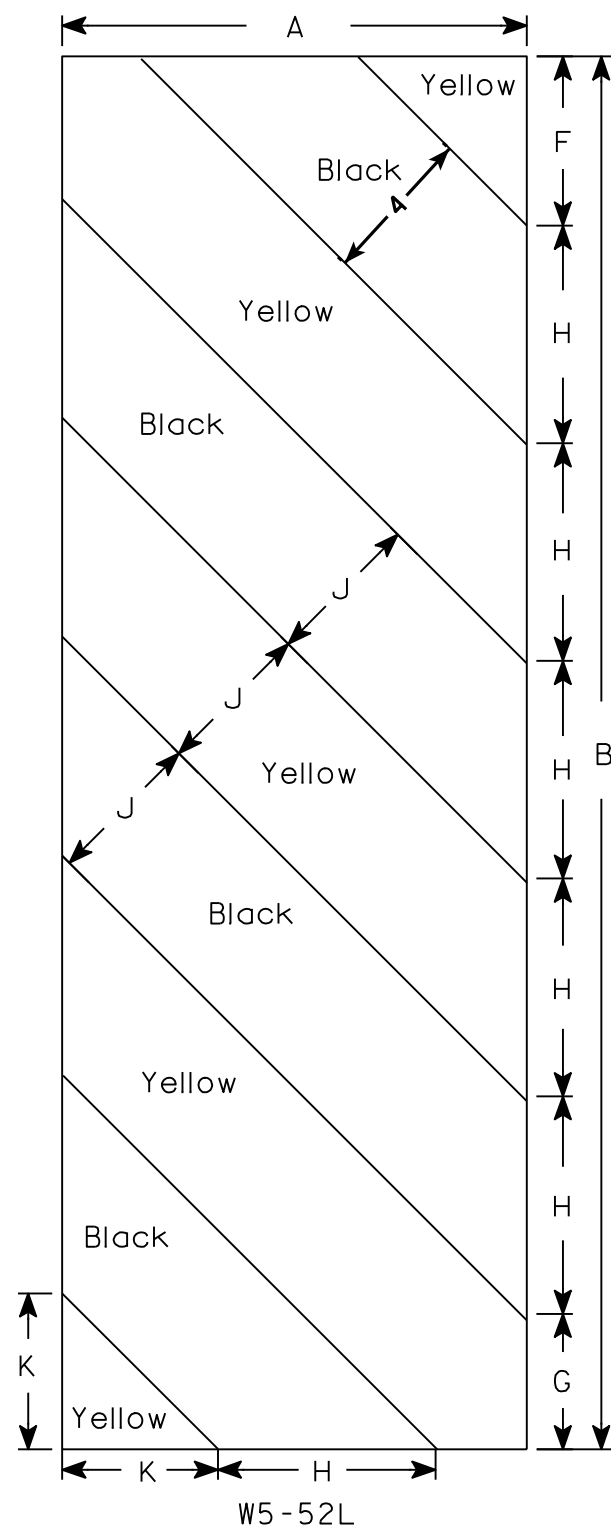
PROJECT NO:

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 - 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

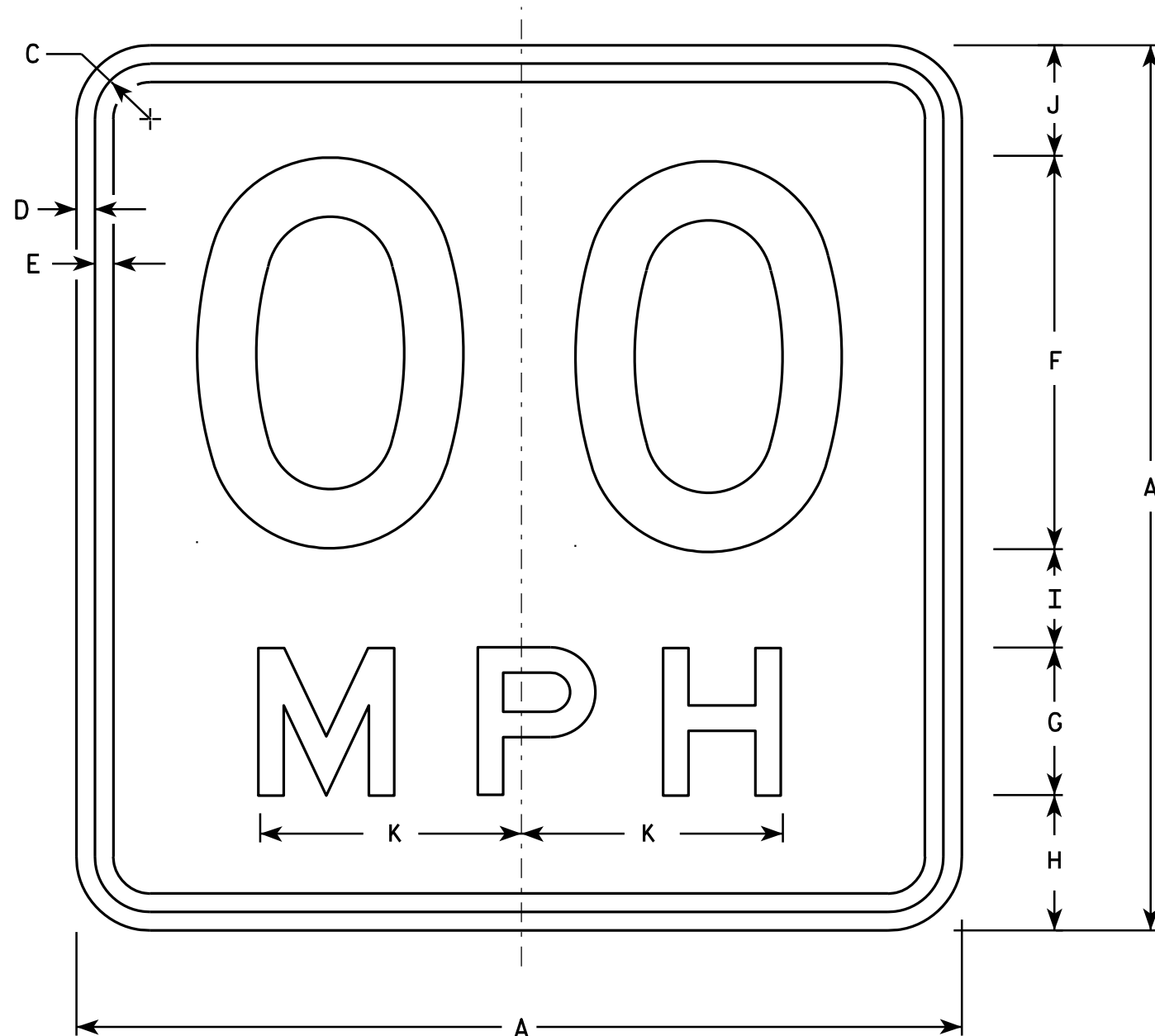
PROJECT NO:

HWY:

COUNTY:

SHEET NO:

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:

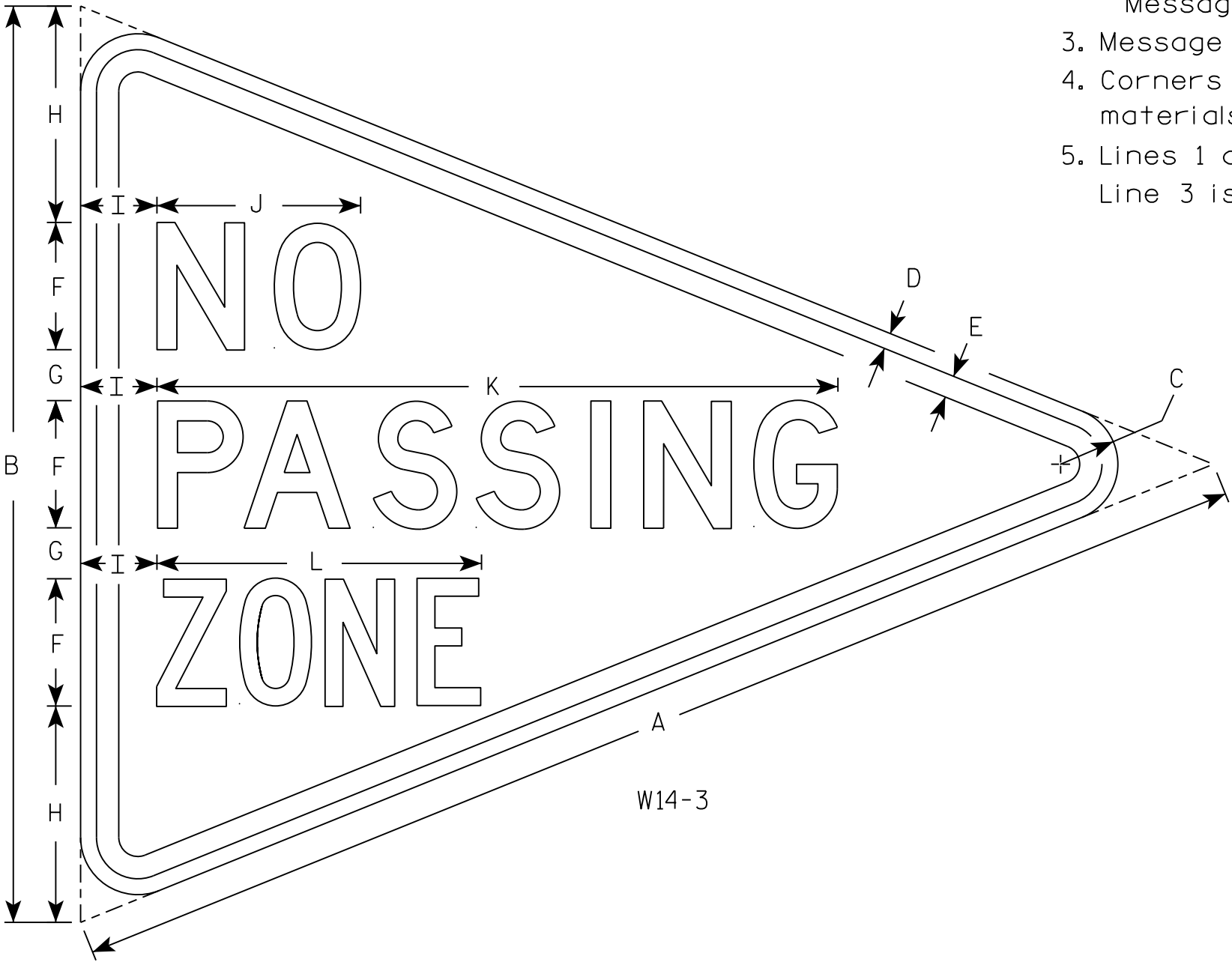
COUNTY:

SHEET NO:

E

NOTES

- 1. Sign is Type II - Type F Reflective
- 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.



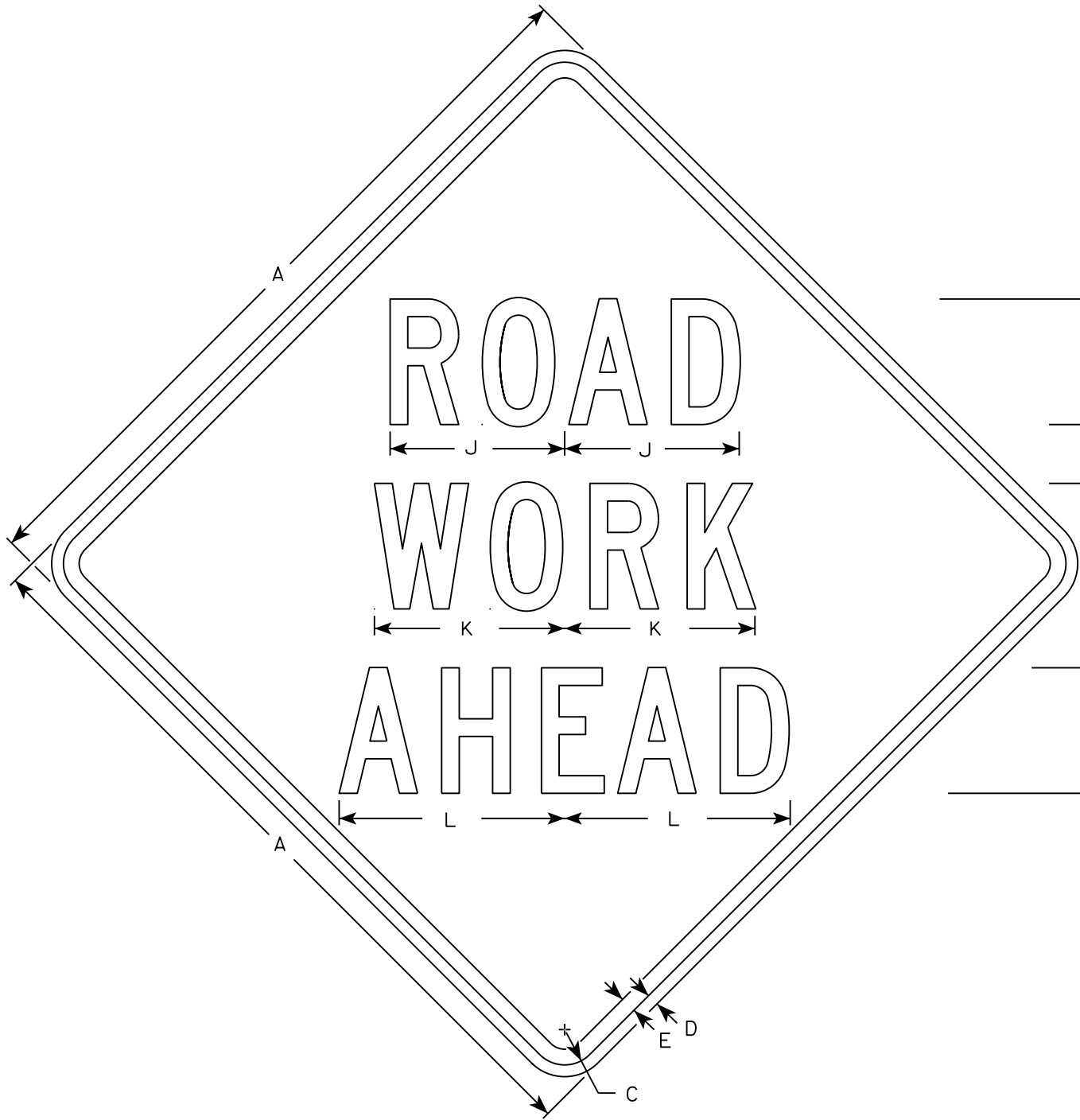
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	36	2 1/4	5/8	7/8	5	2	8 1/2	3	8	26 3/4	12 3/4															5.56
2M																											
3																											
4																											
5																											

STANDARD SIGN
W14-3

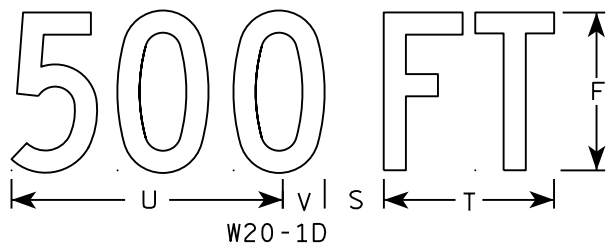
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

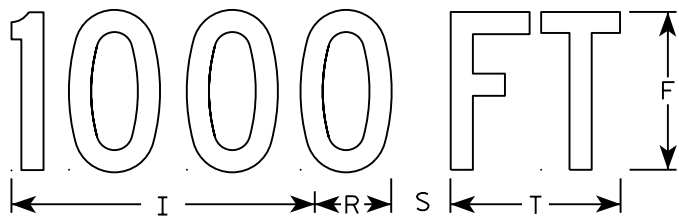
DATE 2/23/17 PLATE NO. W14-3.10



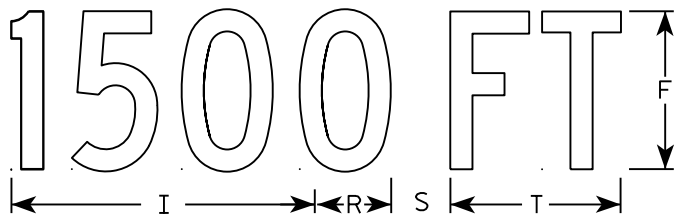
W20-1A



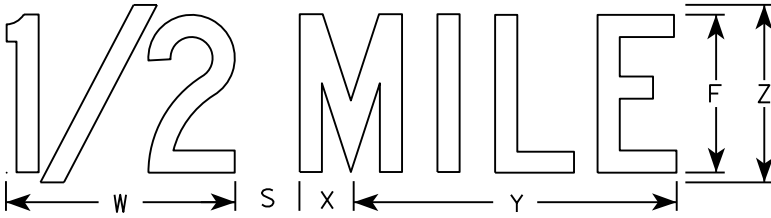
W20-1D



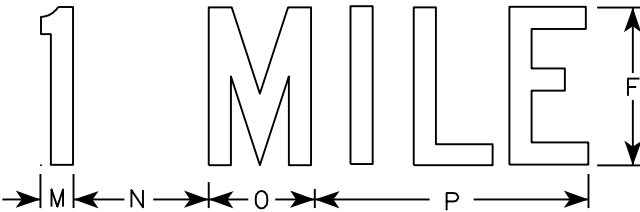
W20-1C



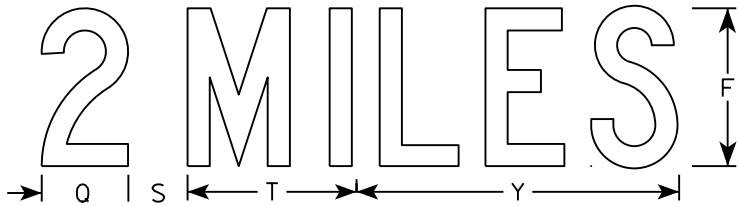
W20-1B



W20-1G



W20-1F



W20-1E

NOTES

- 1. Sign is Type II - Type F Reflective
- 2. Color:
Background - Orange
Message - Black
- 3. Message Series - C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

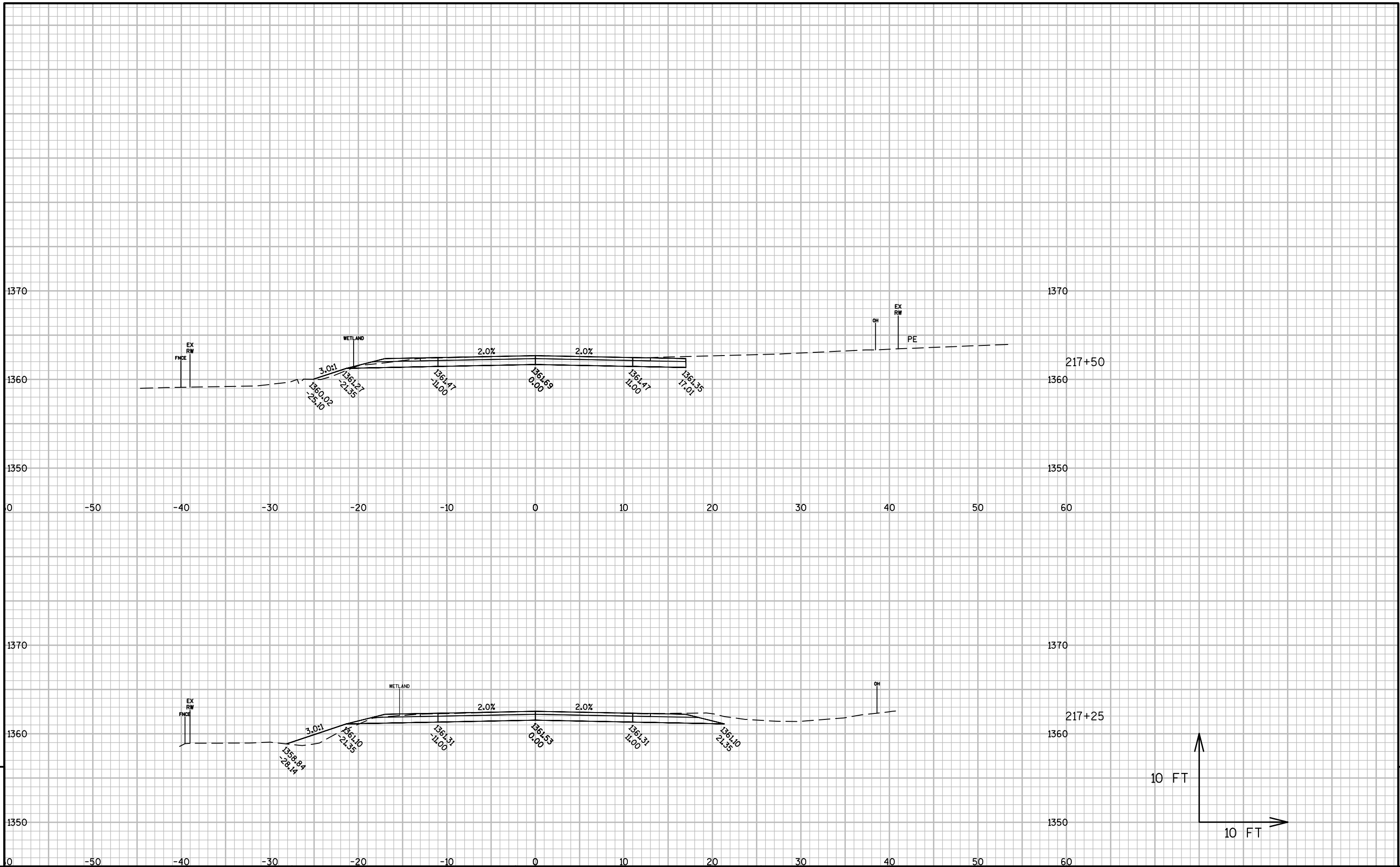
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 3/8	1/2	5/8	5	2 5/8	3 1/4	10 1/8	7	7 5/8	8 7/8	1 1/8	4 1/2	3 1/2	9		2 1/2	2 1/4	5 5/8	9	1 3/8	8	1 3/4	10 3/4	6	9.0
2S	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
2M	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
3	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
4	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
5	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0

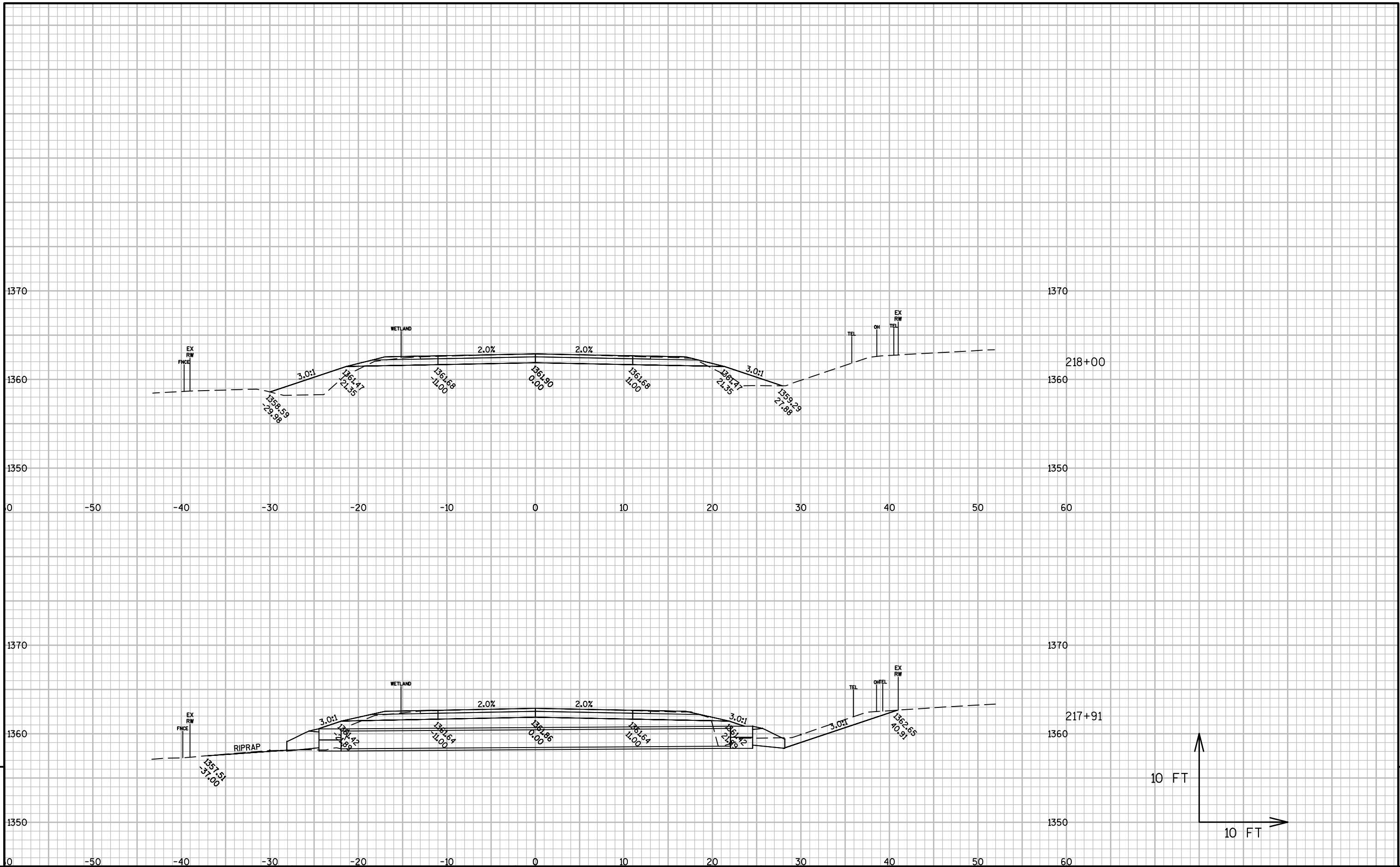
STANDARD SIGN
W20-1A, B, C, D, F & G

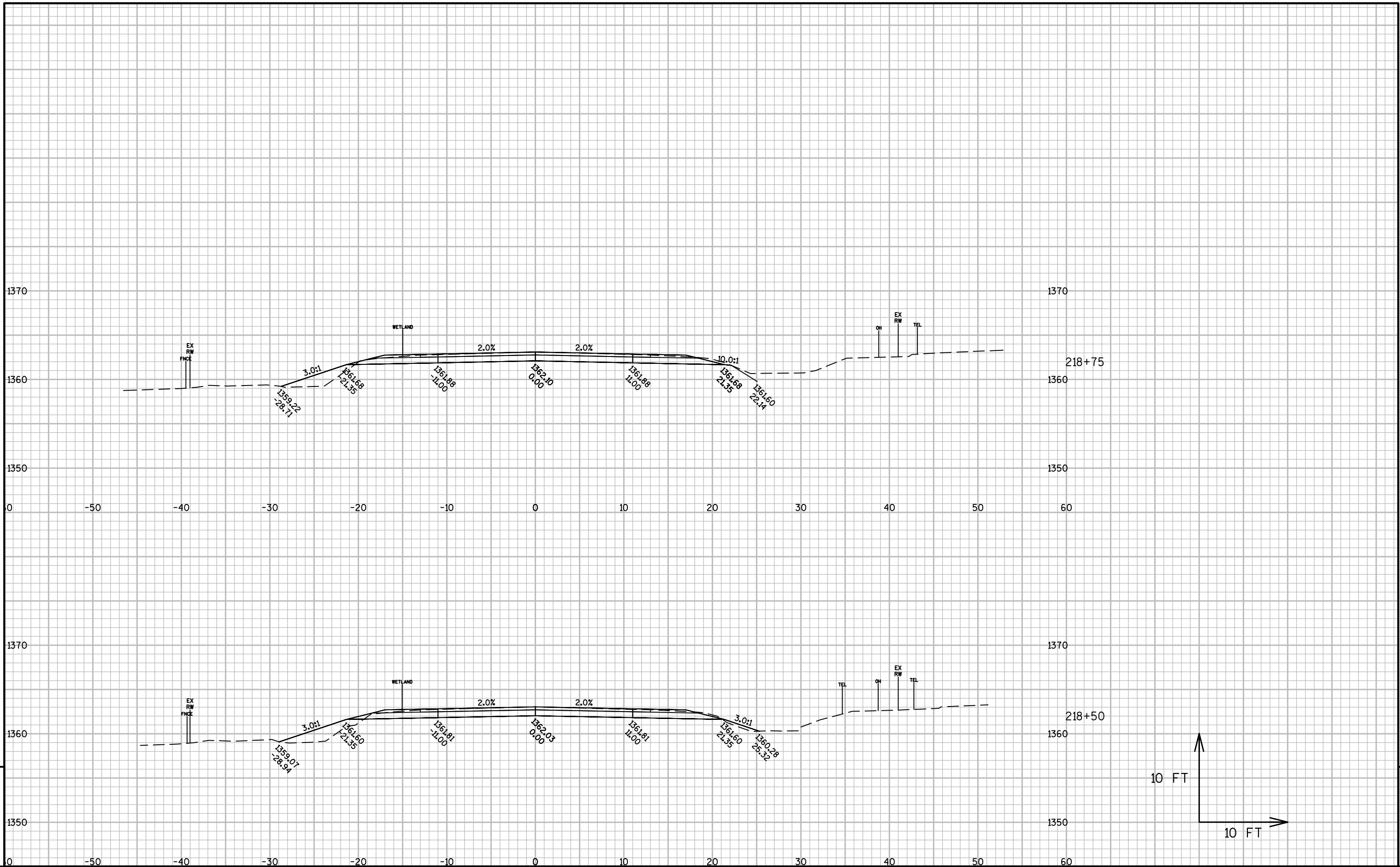
WISCONSIN DEPT OF TRANSPORTATION

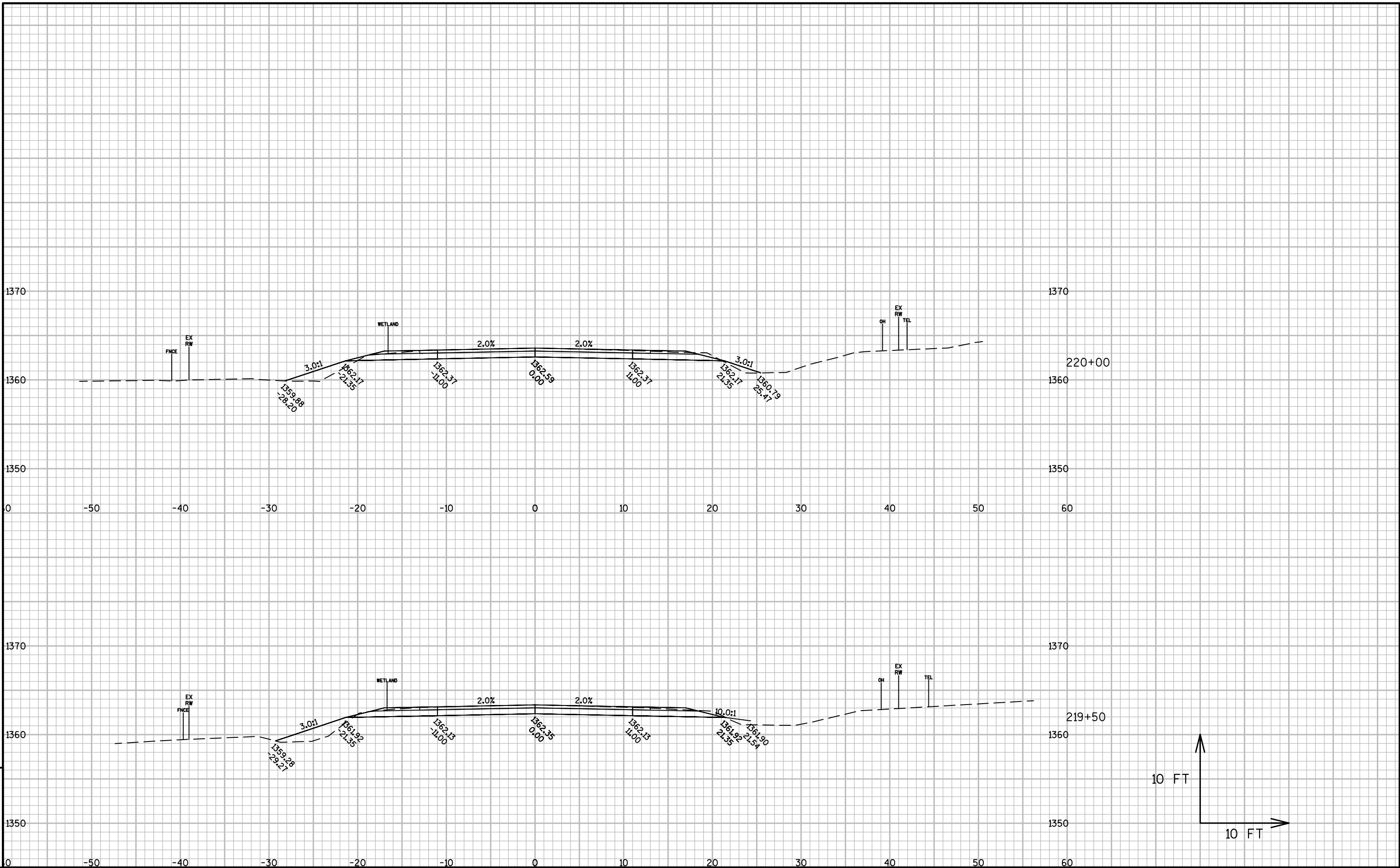
APPROVED *Matthew R. Rauch*
for State Traffic Engineer

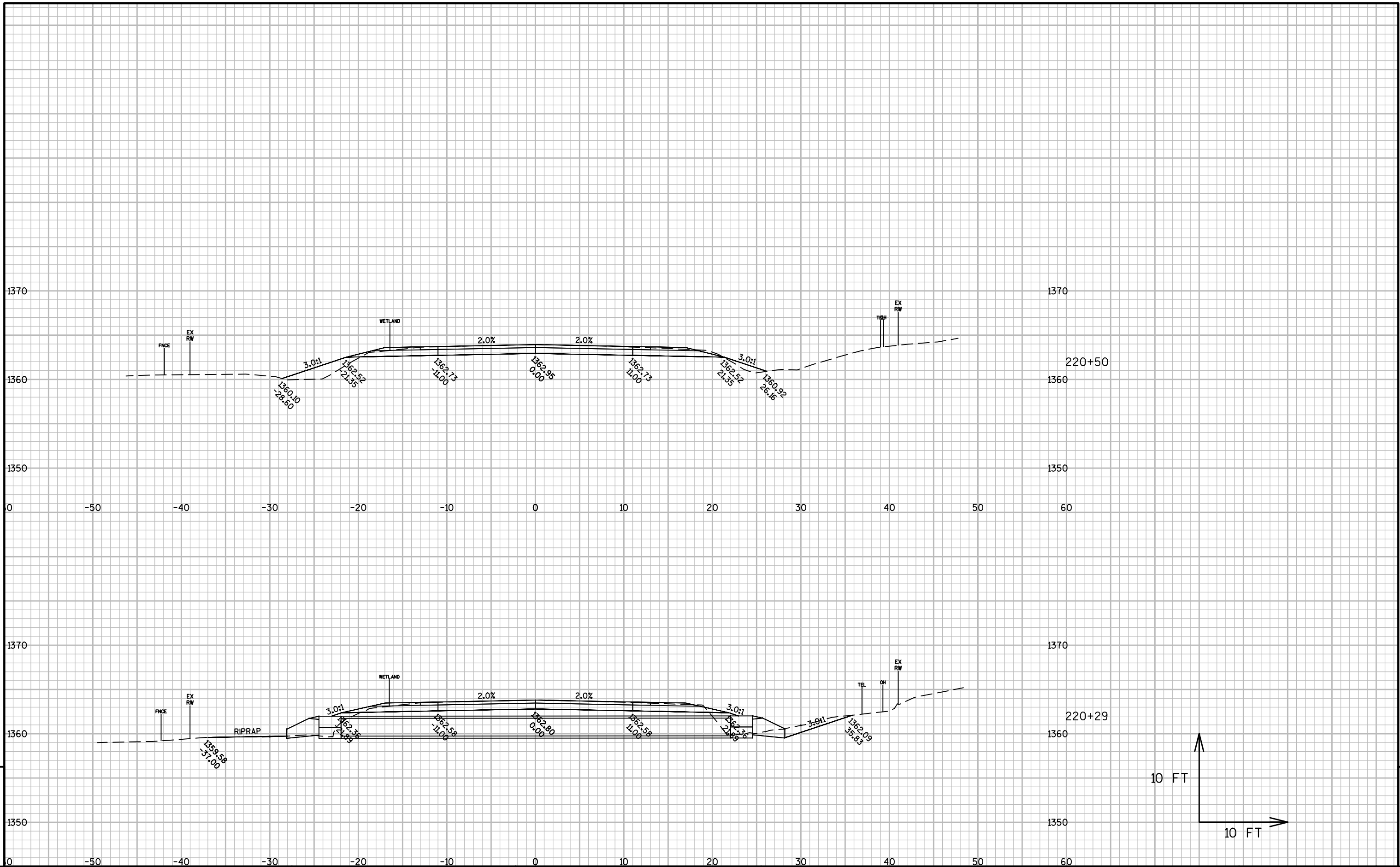
DATE 5/07/15 PLATE NO. W20-1.10



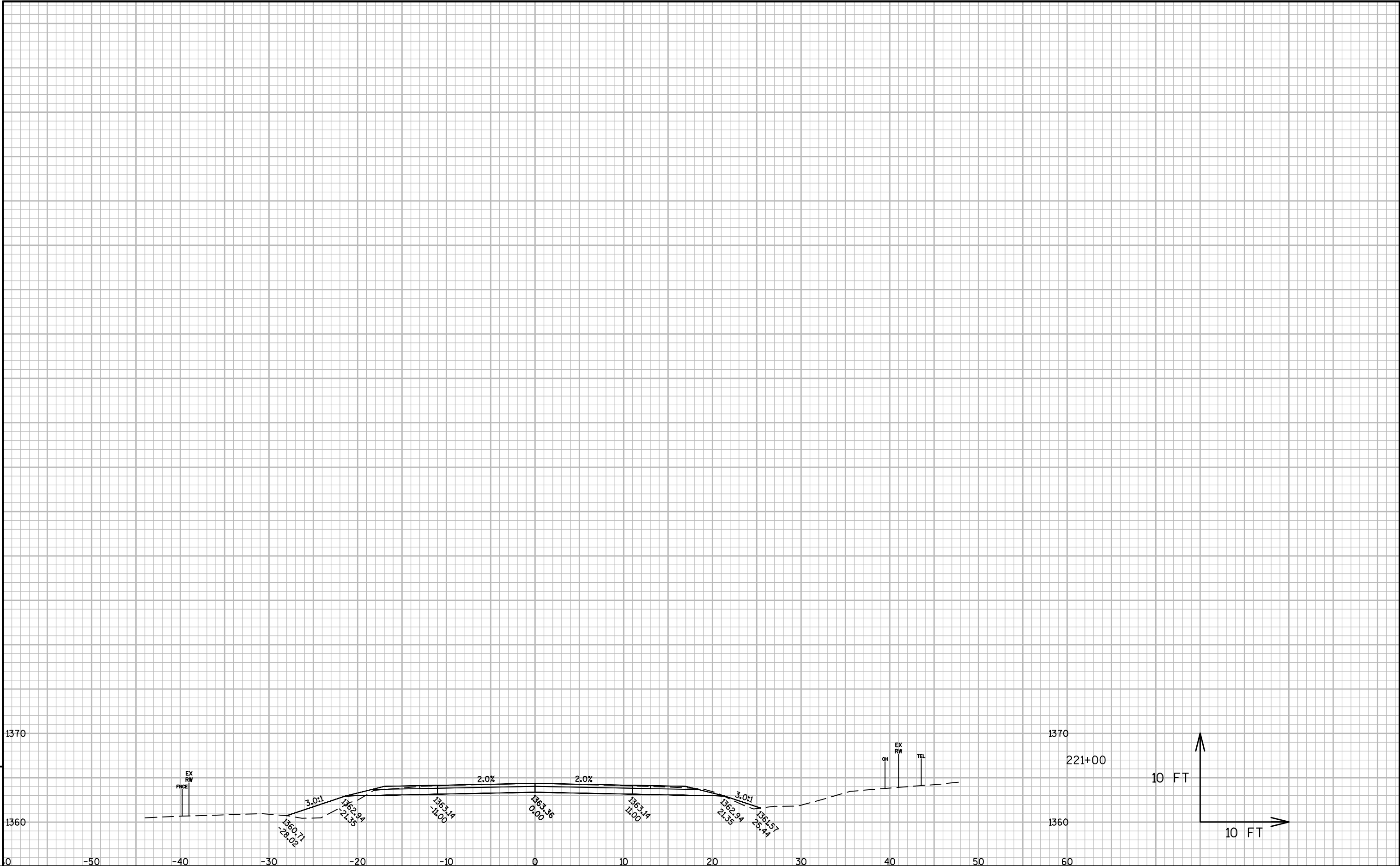




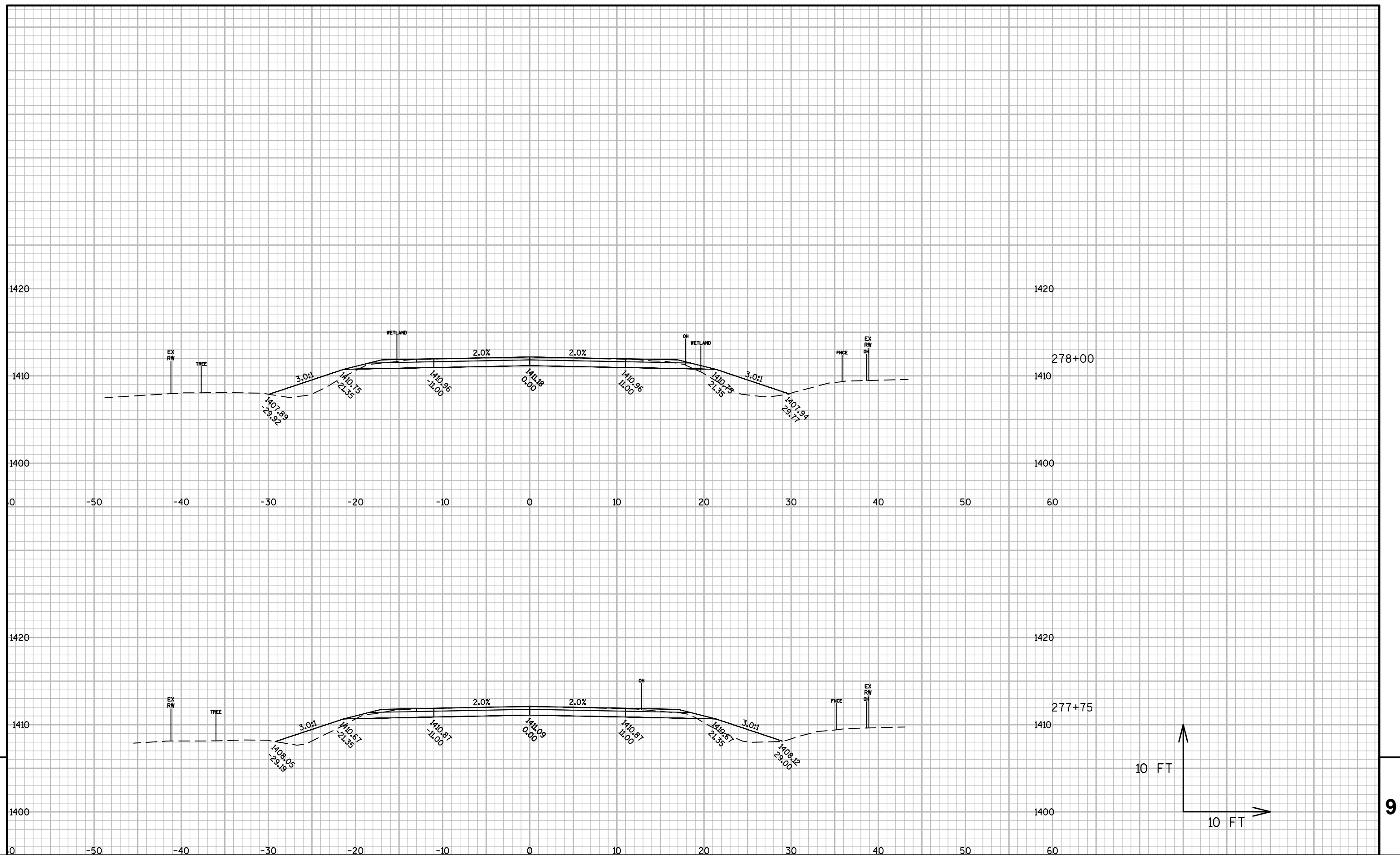


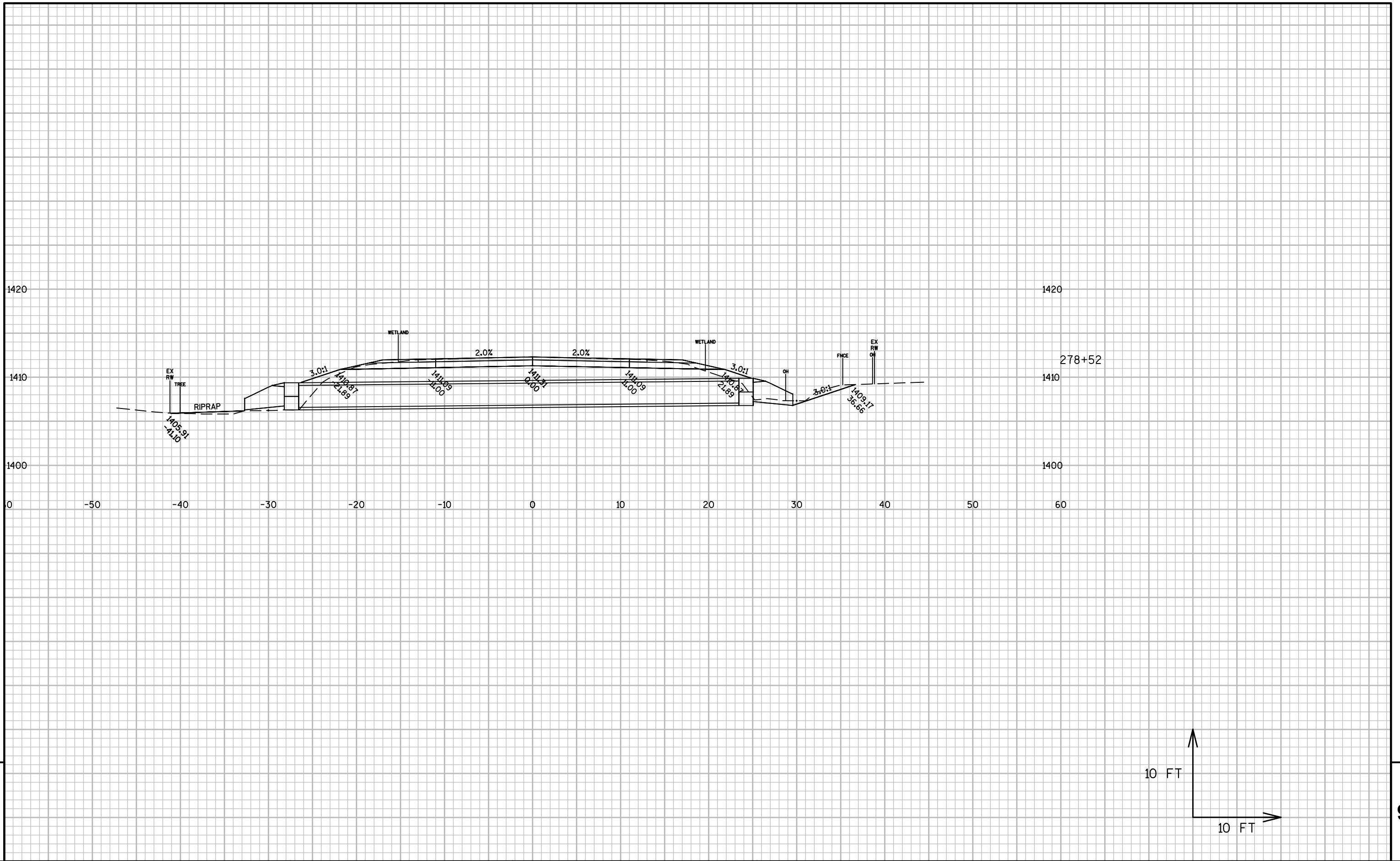


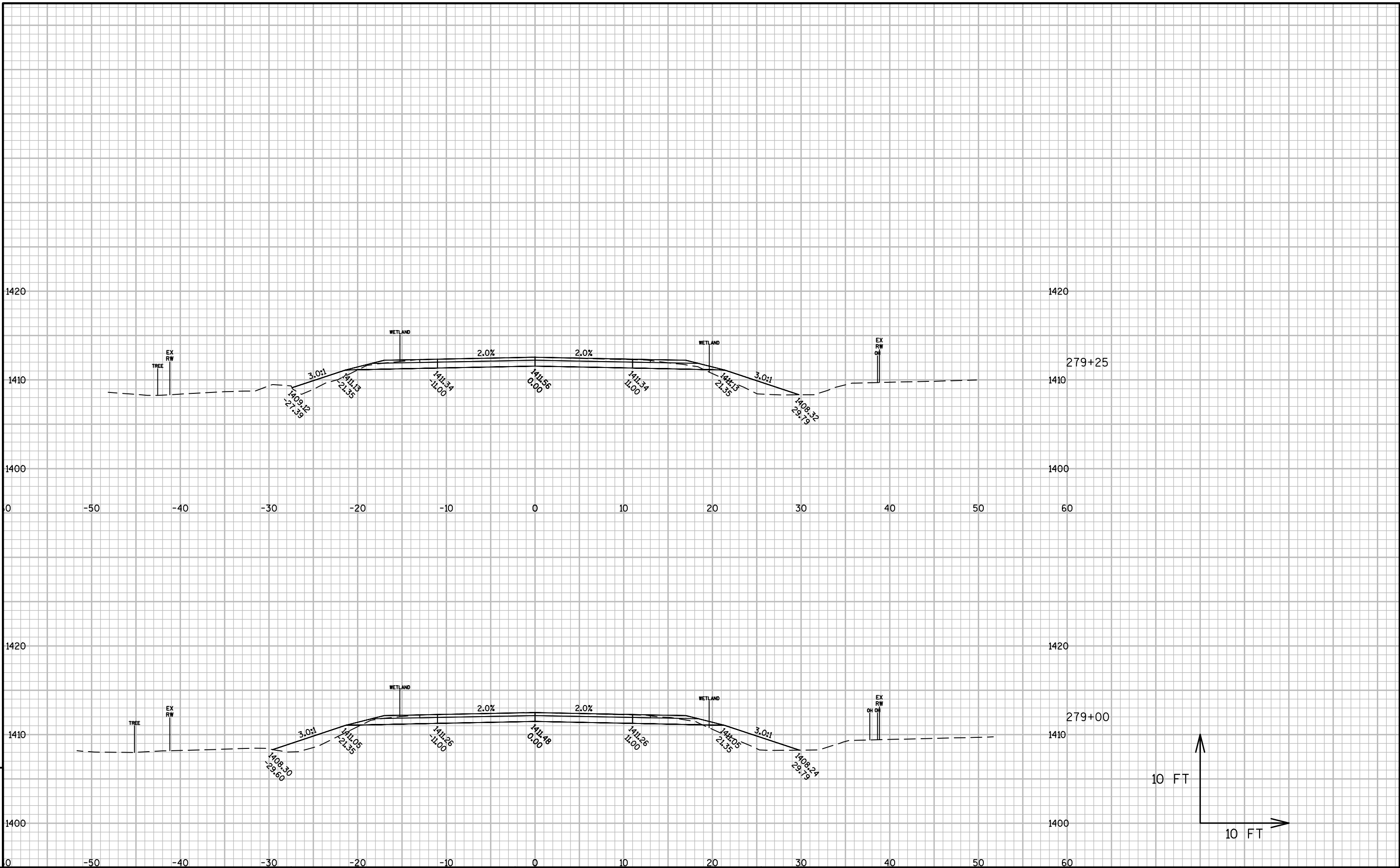
9

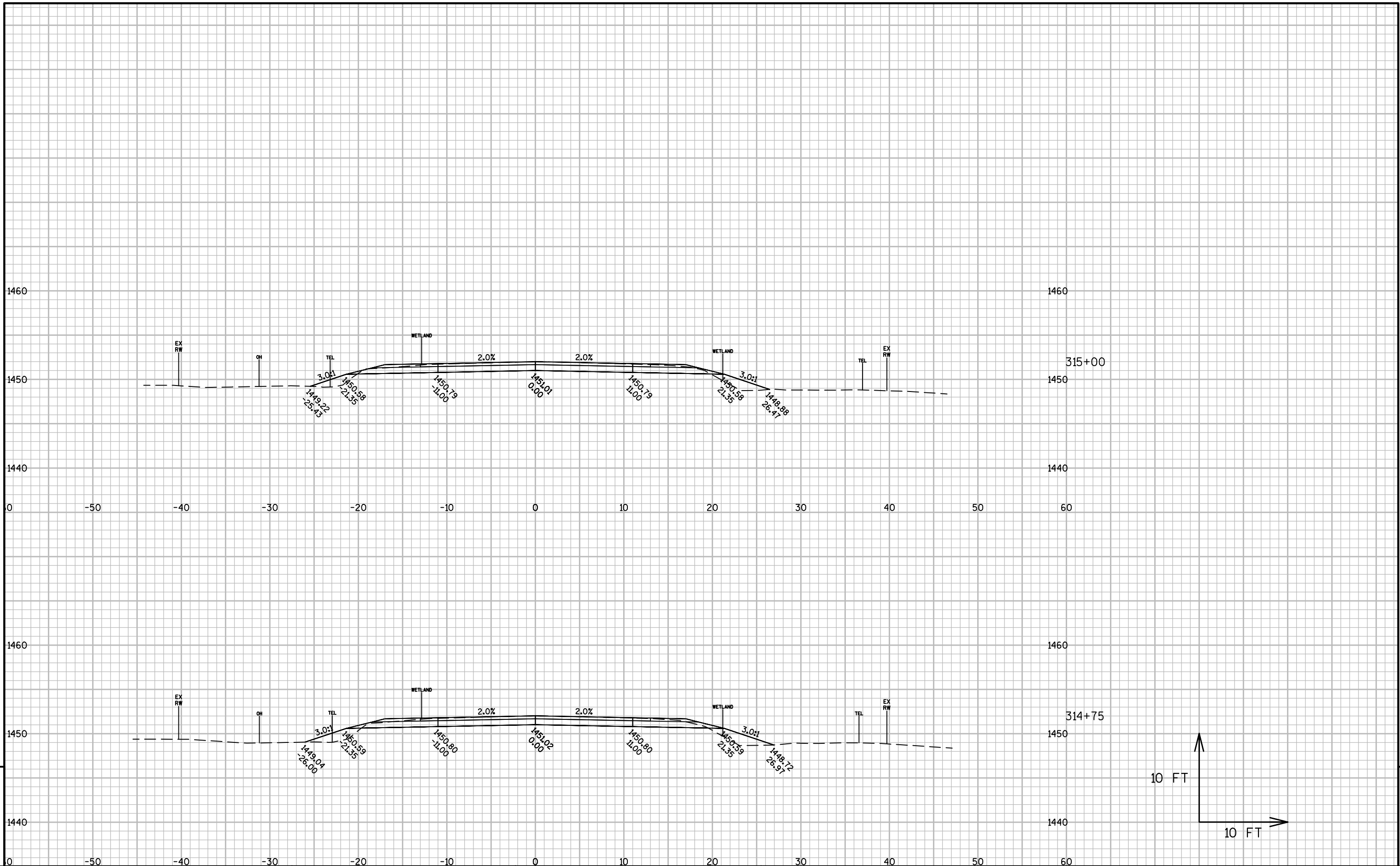


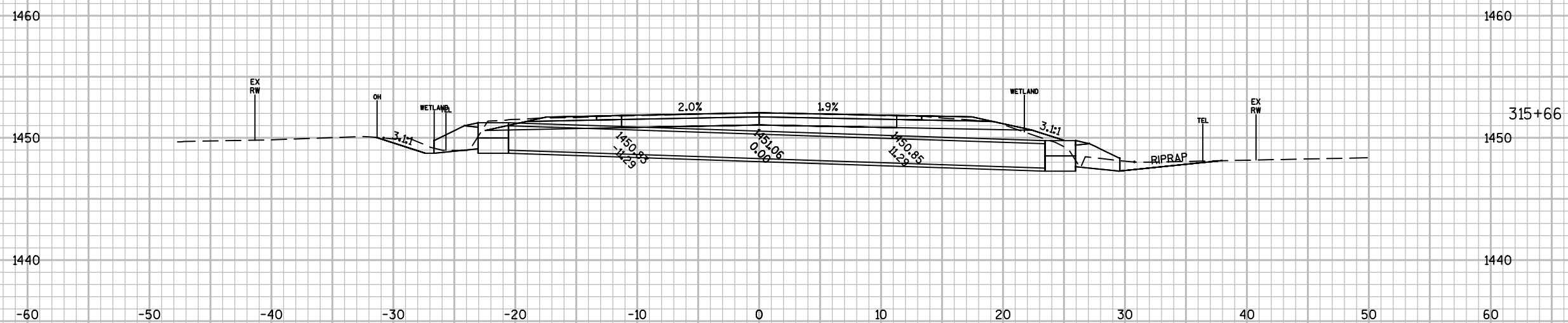
9



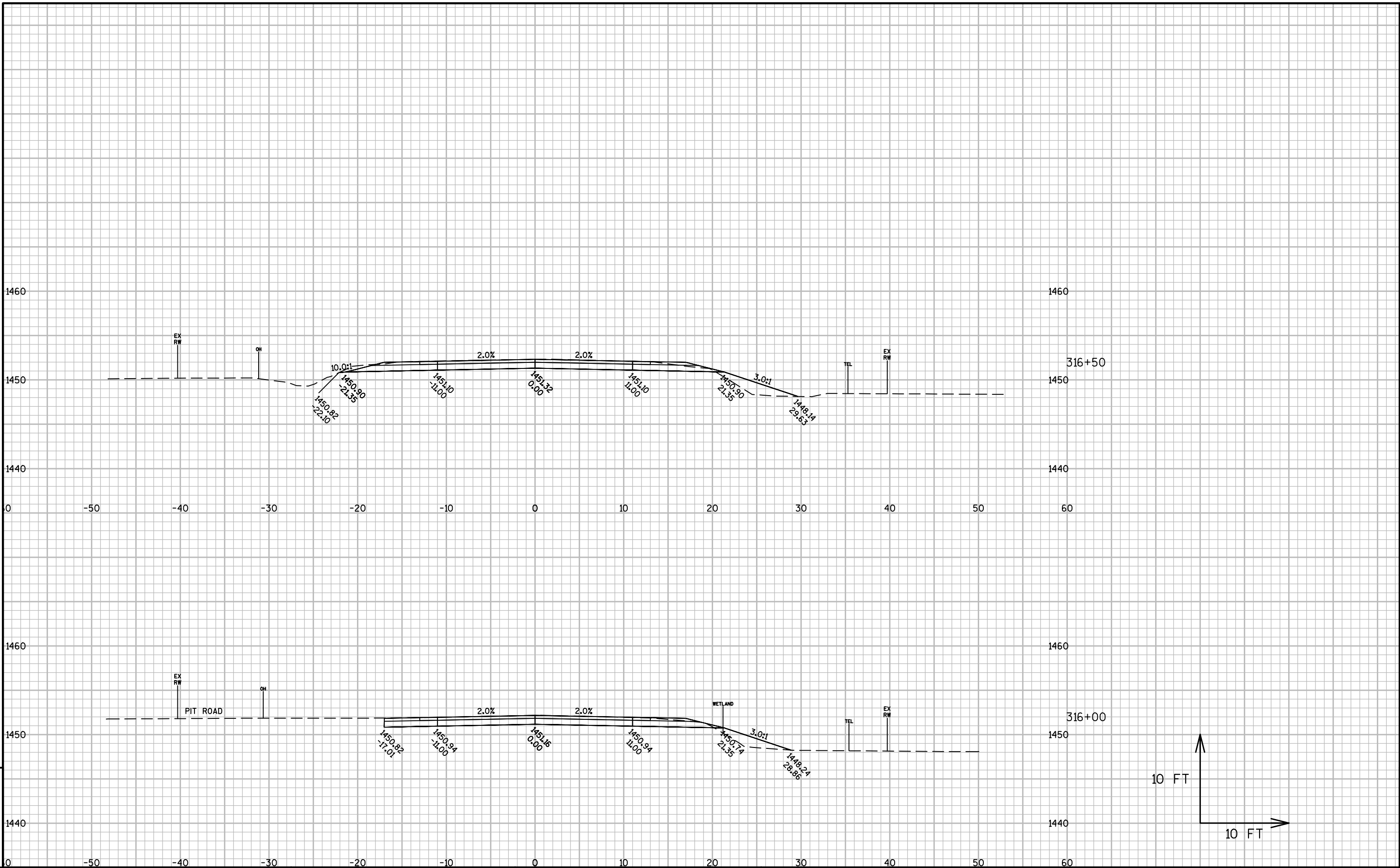


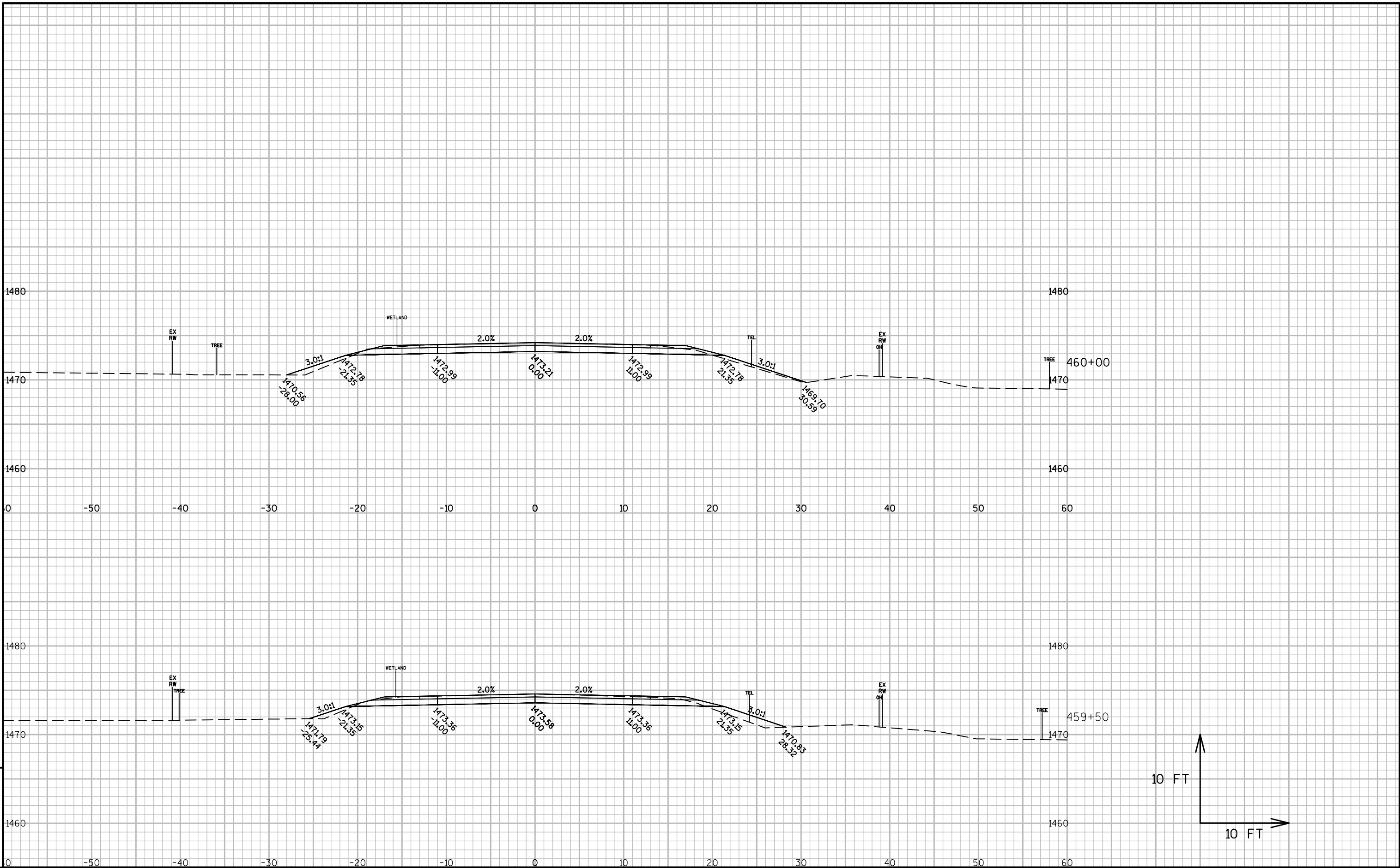


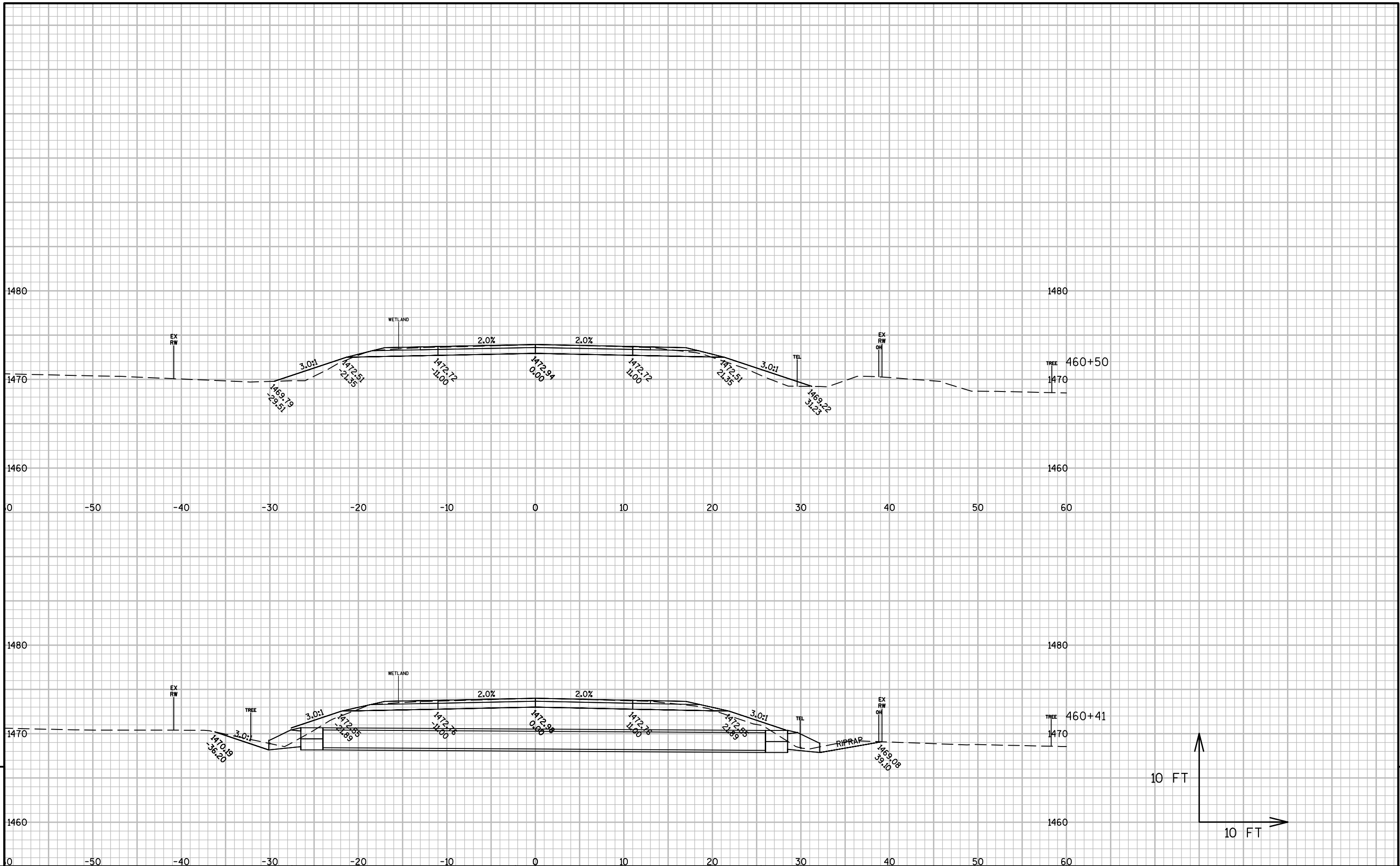


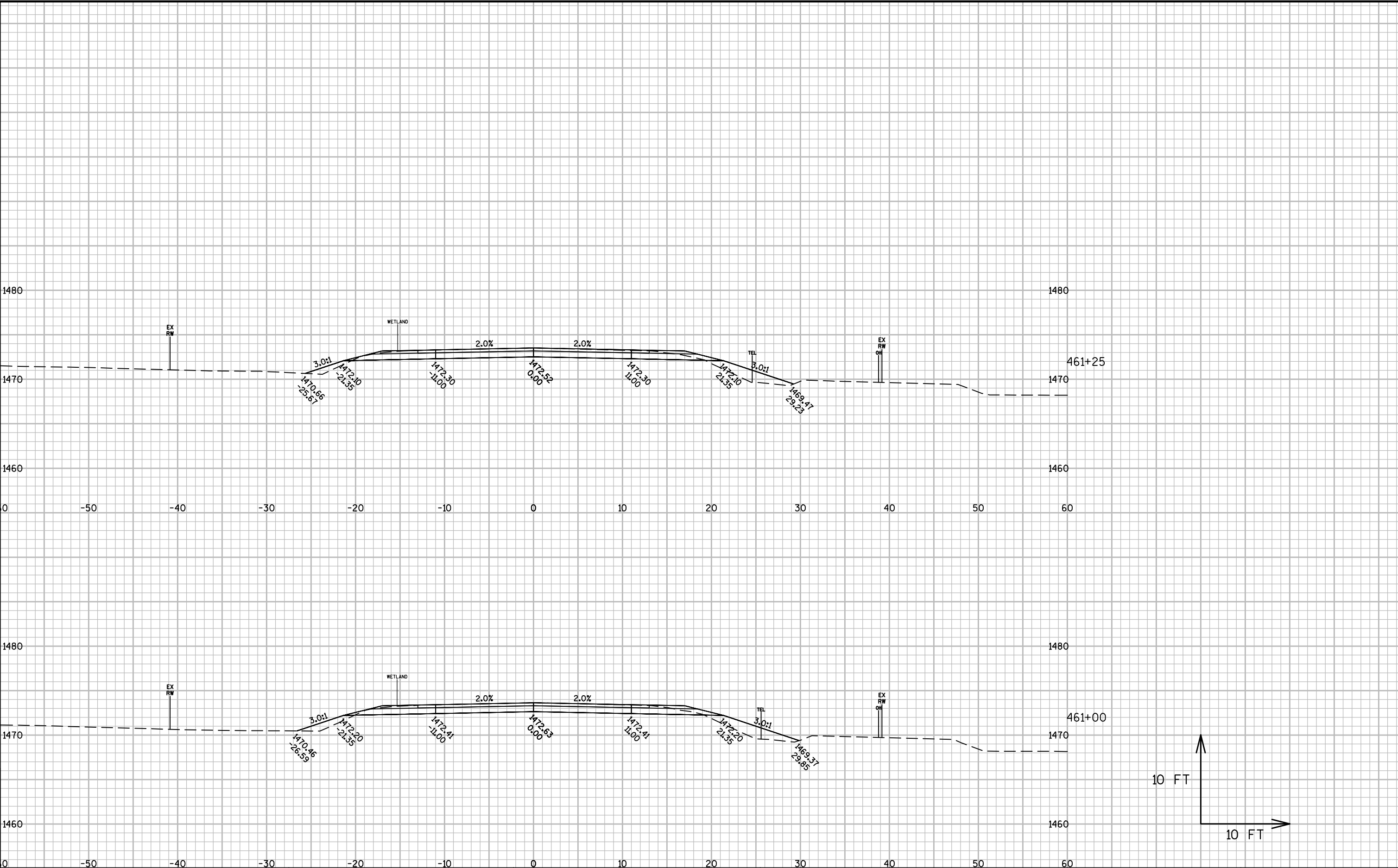


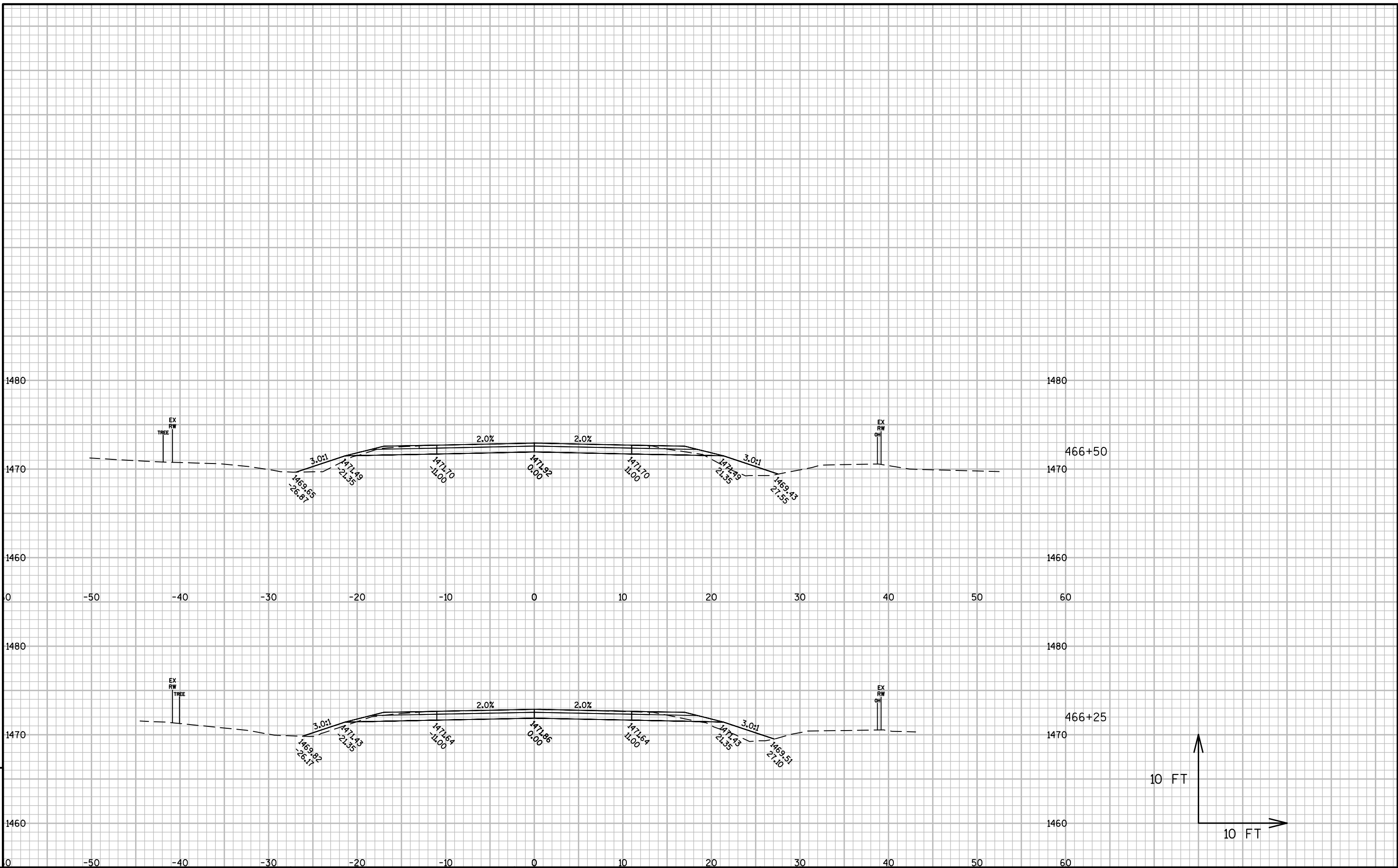
PROJECT NO: 9010-03-60

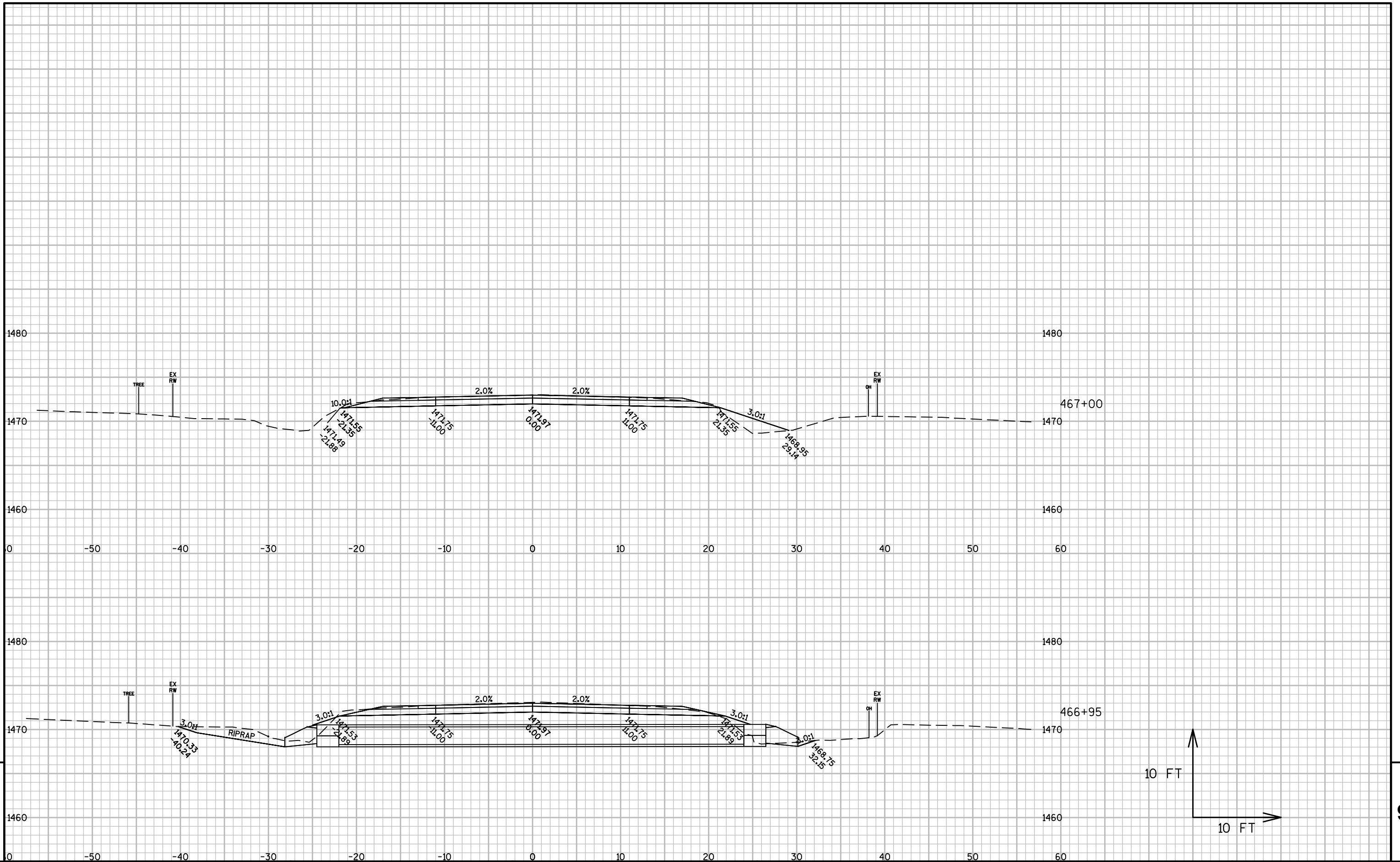


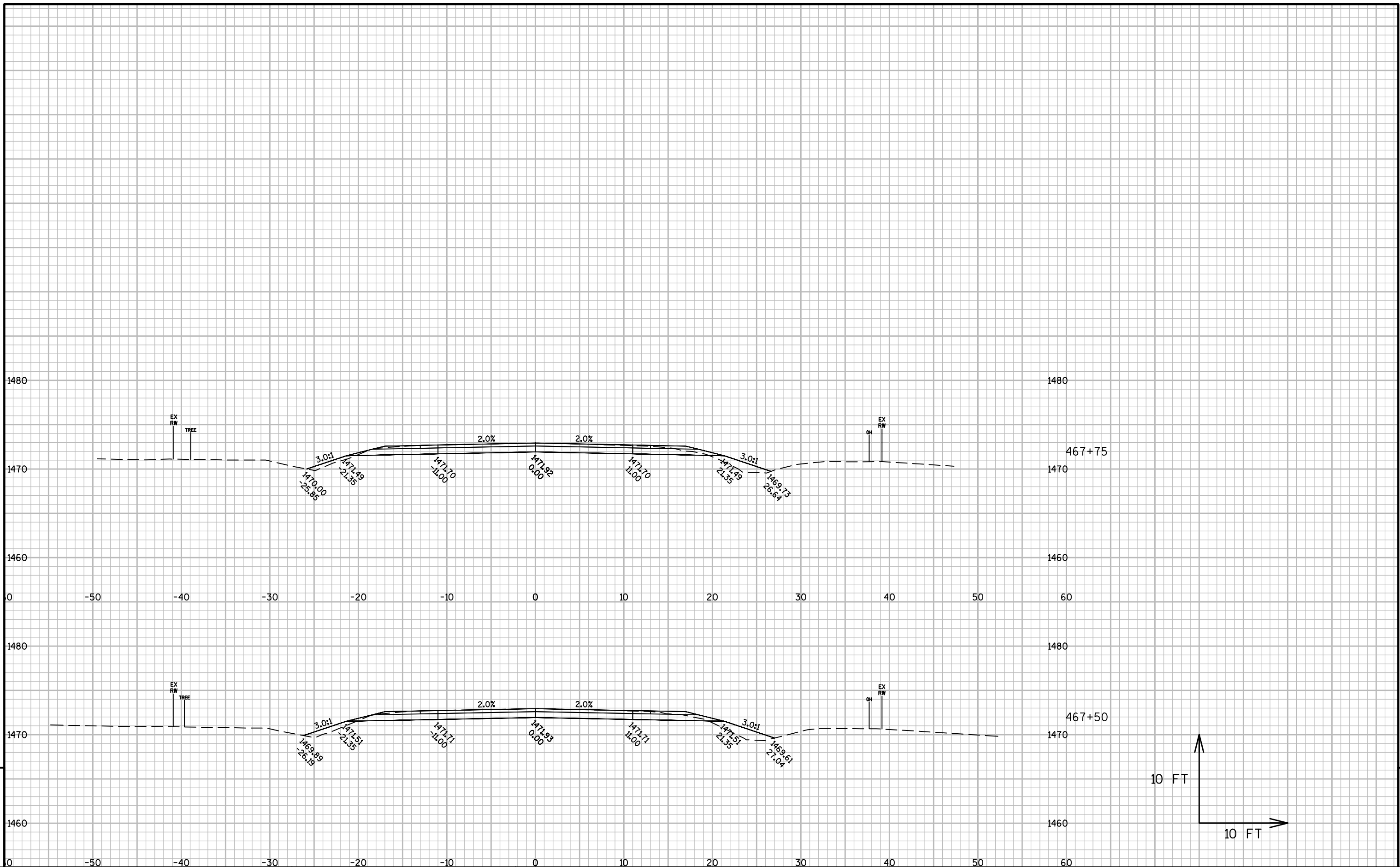


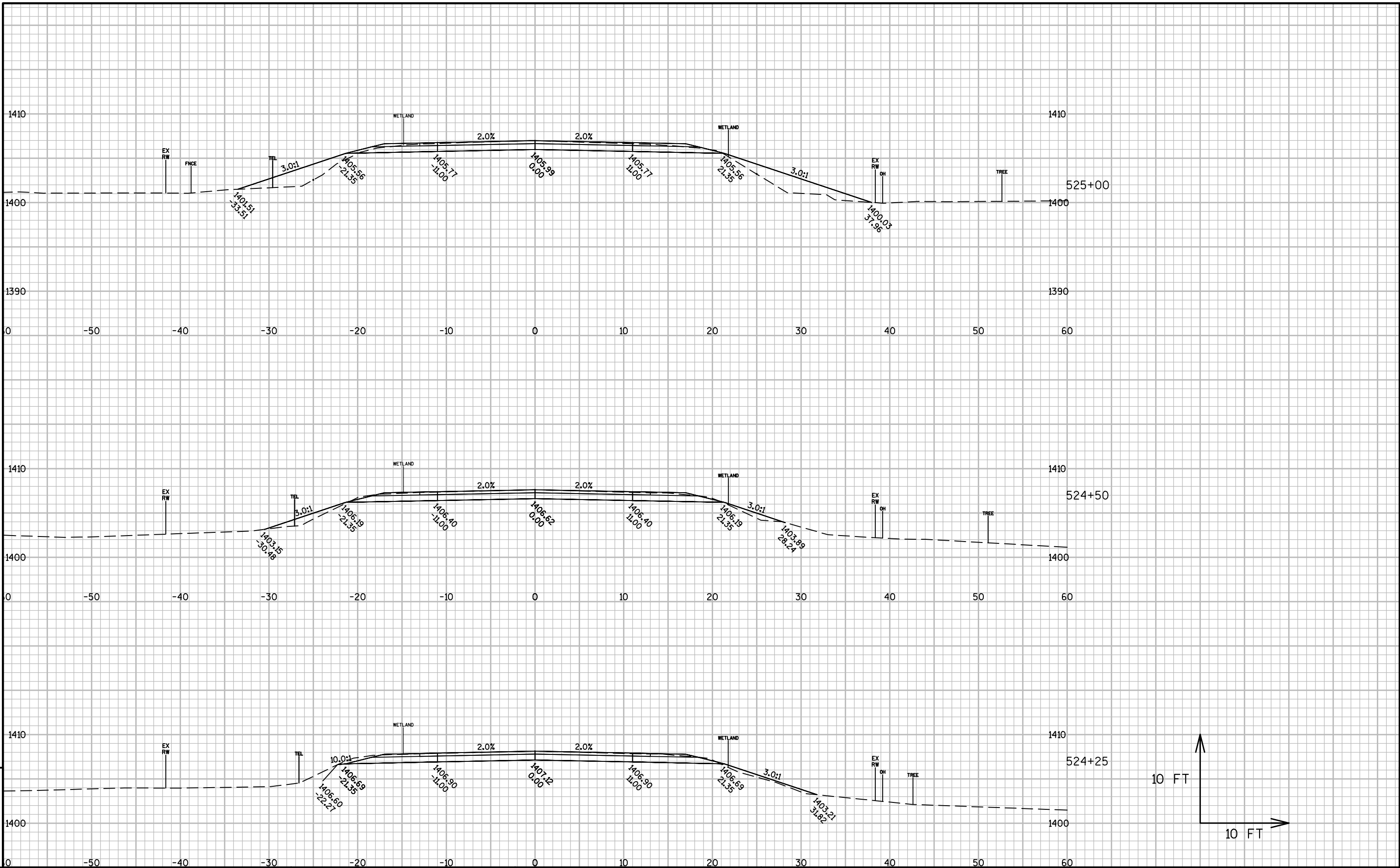


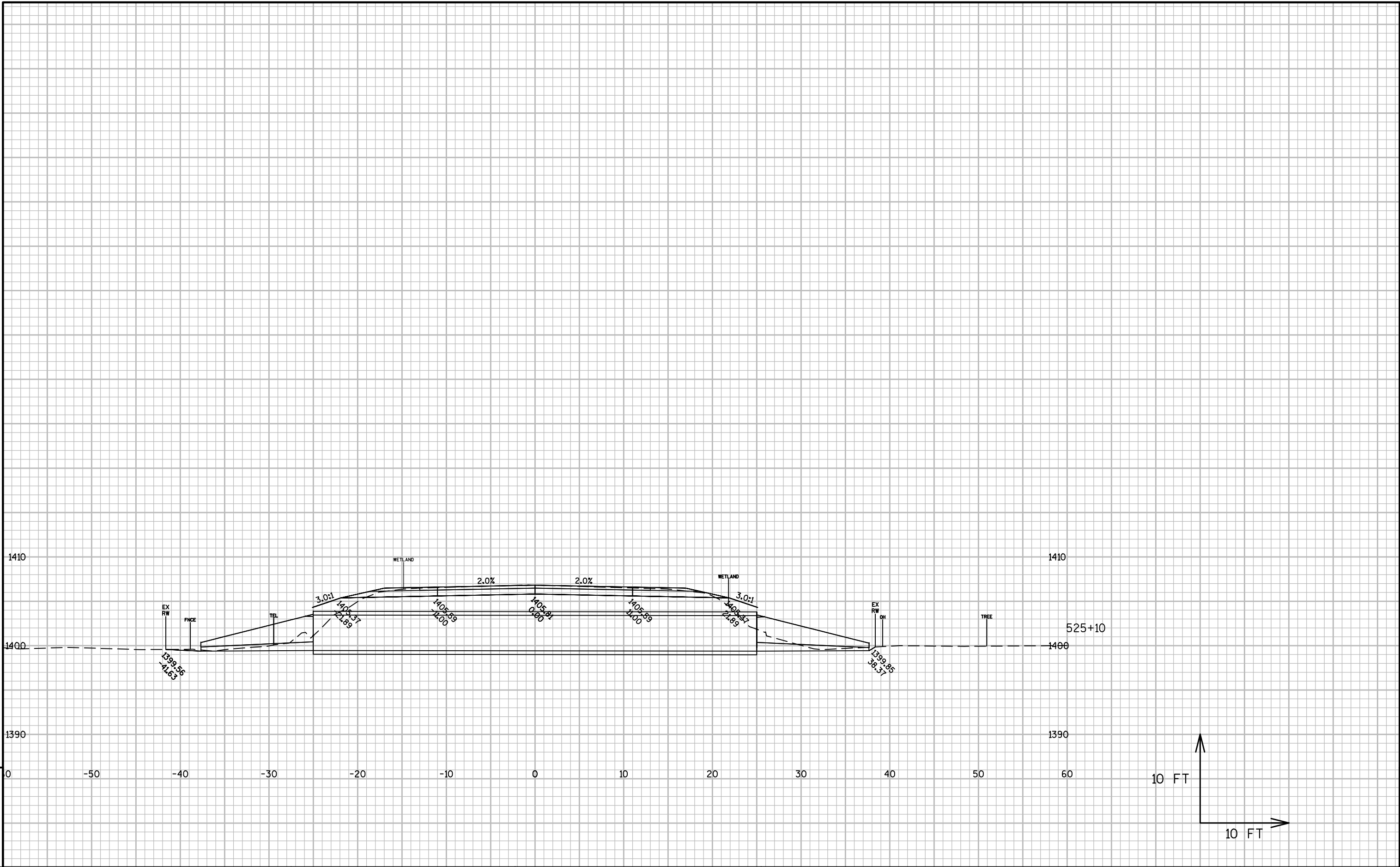


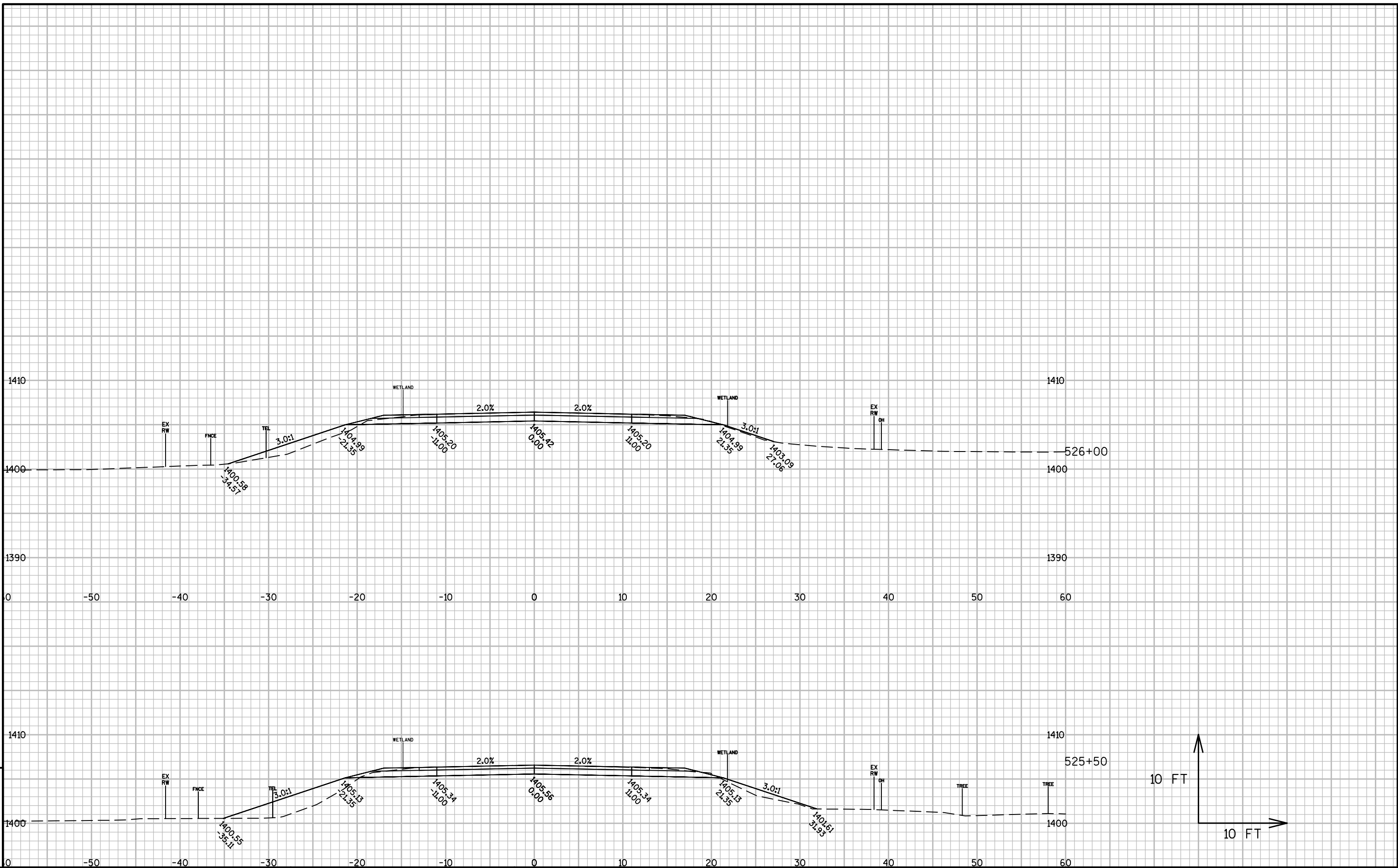


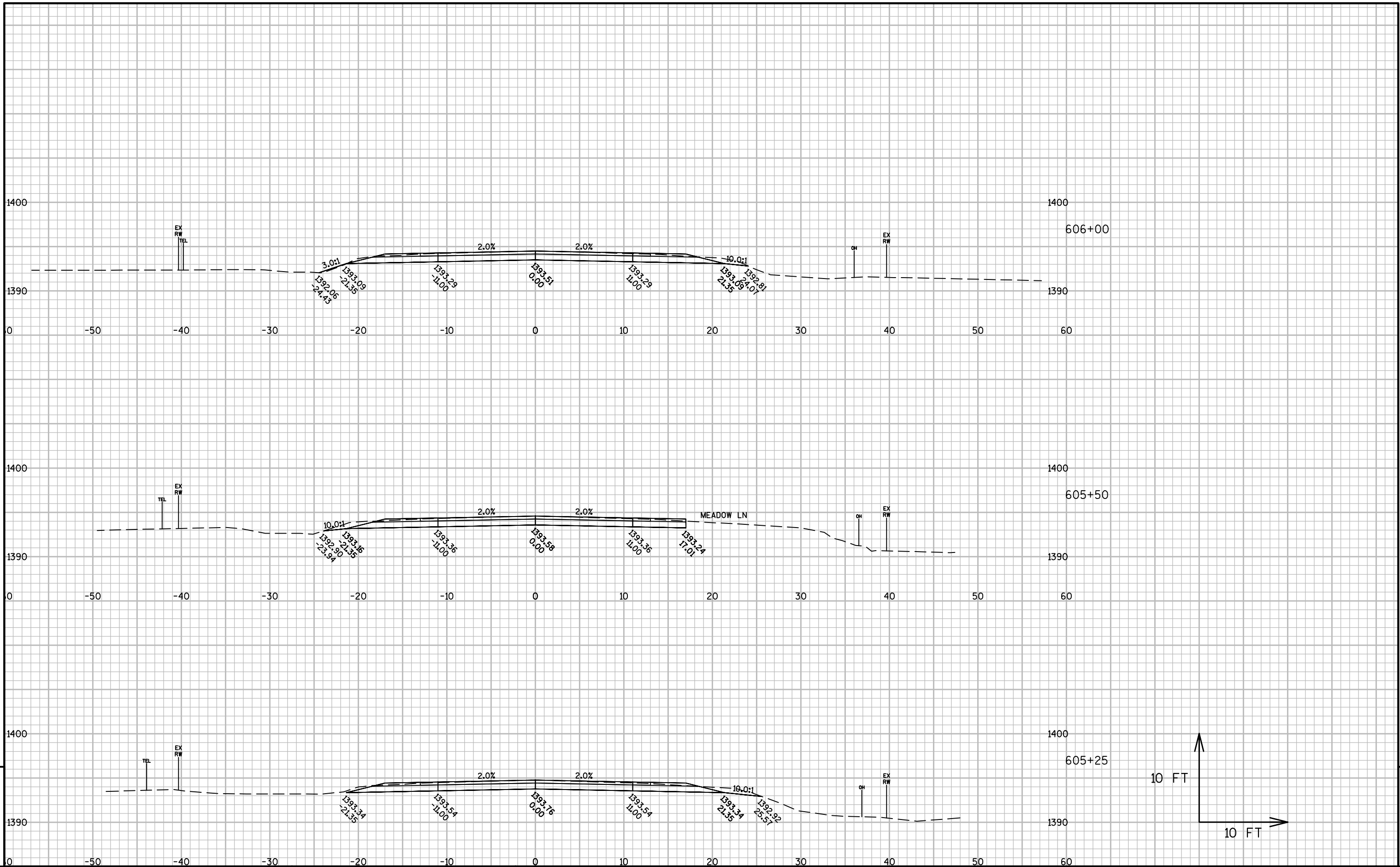


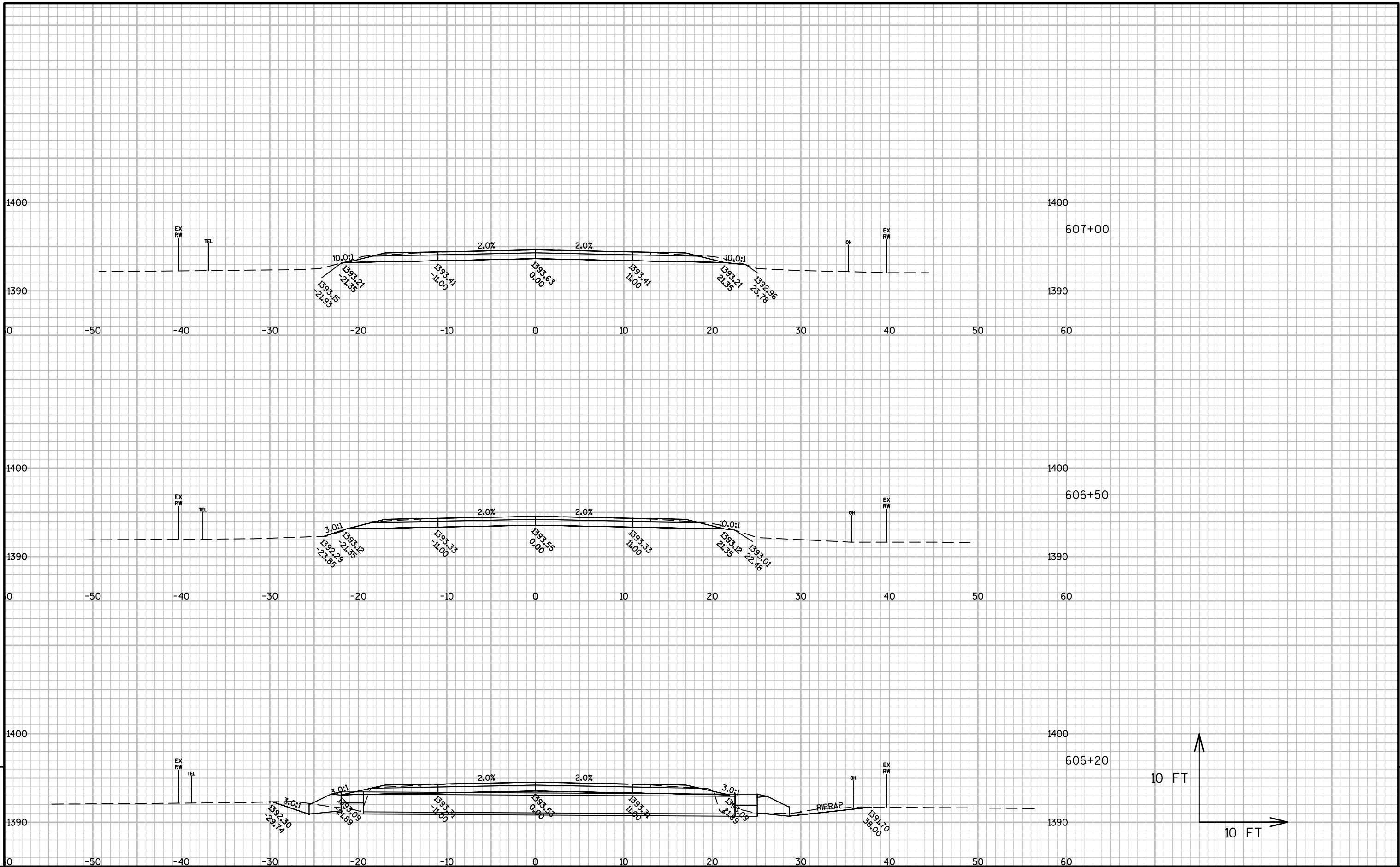


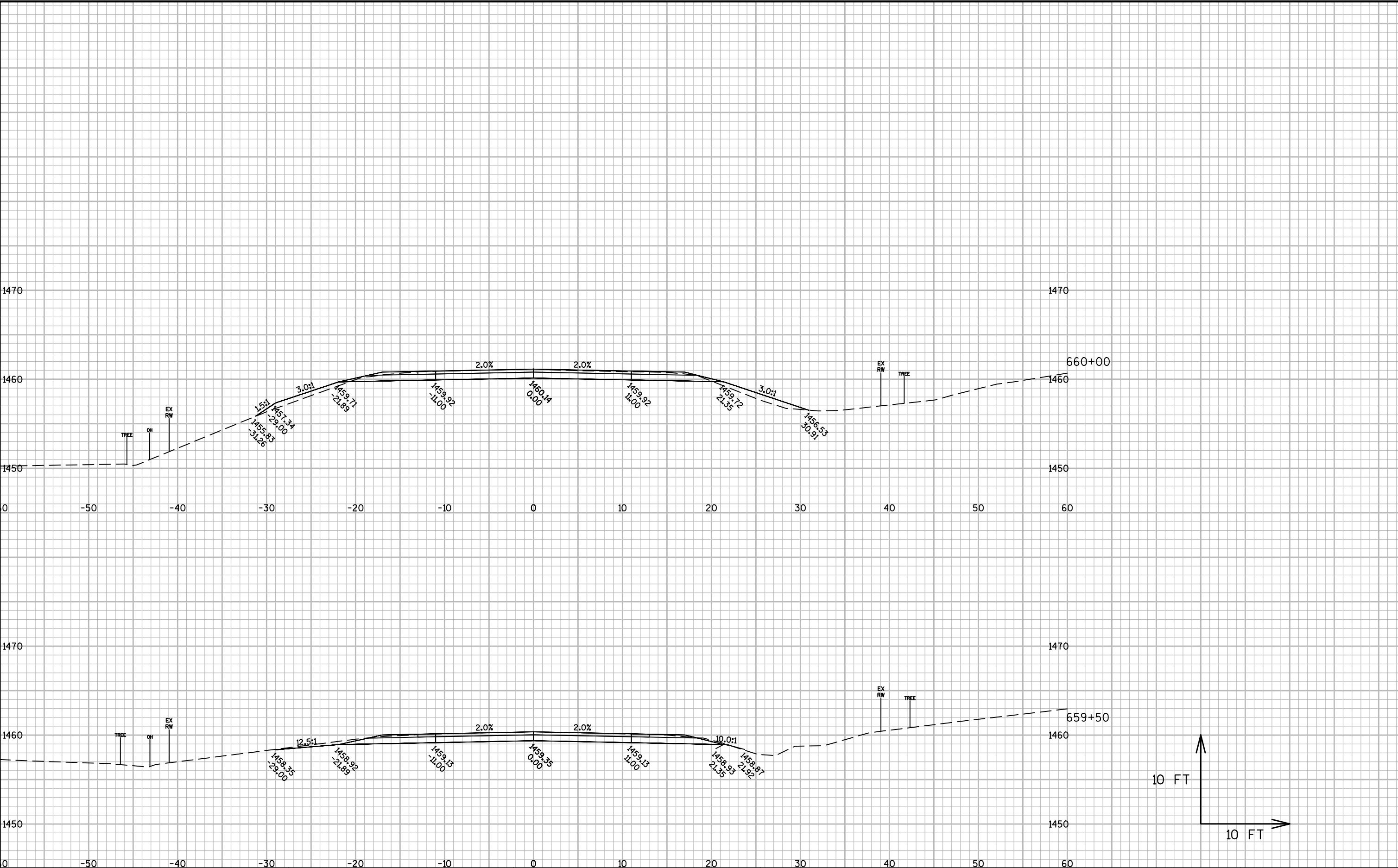


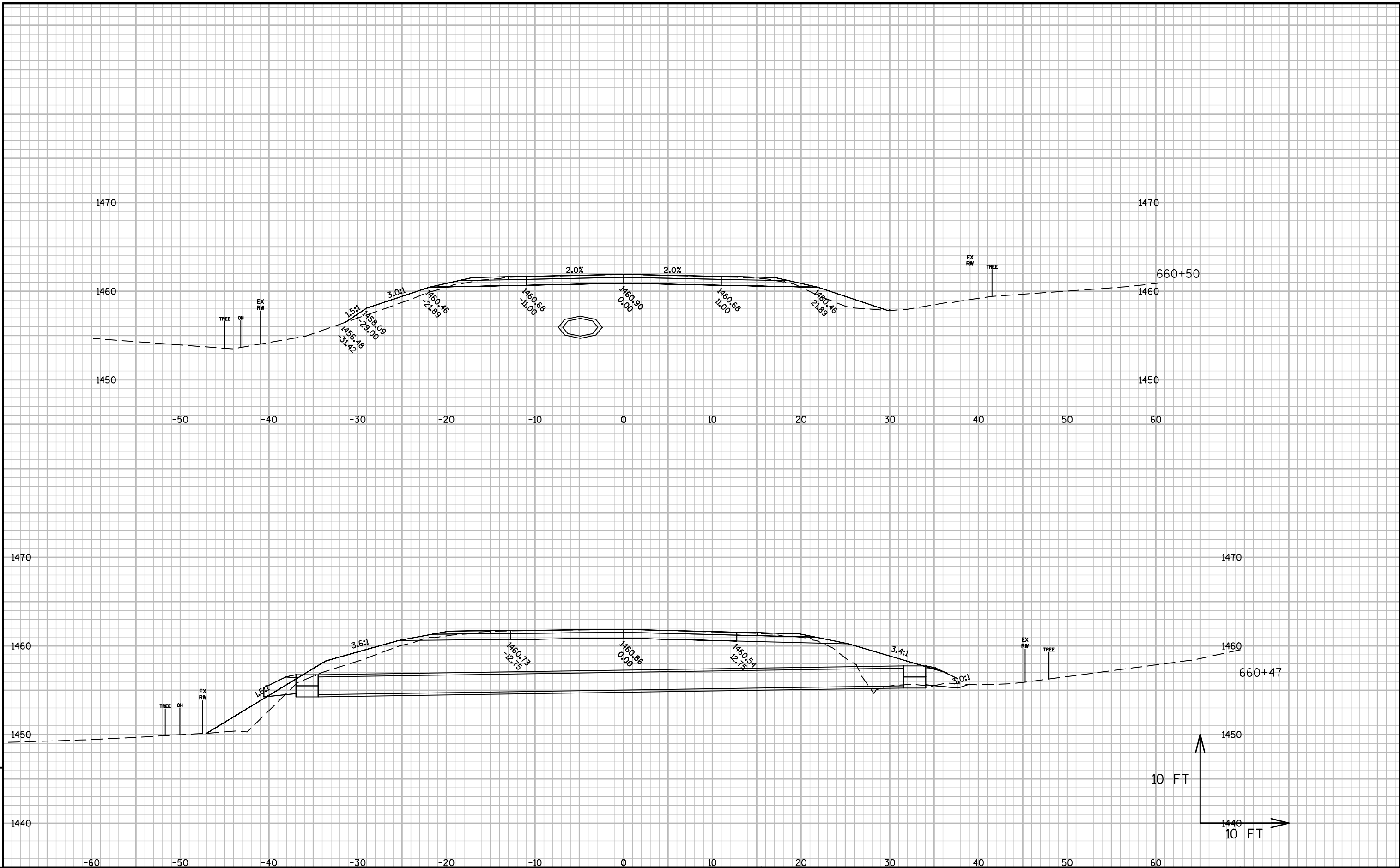


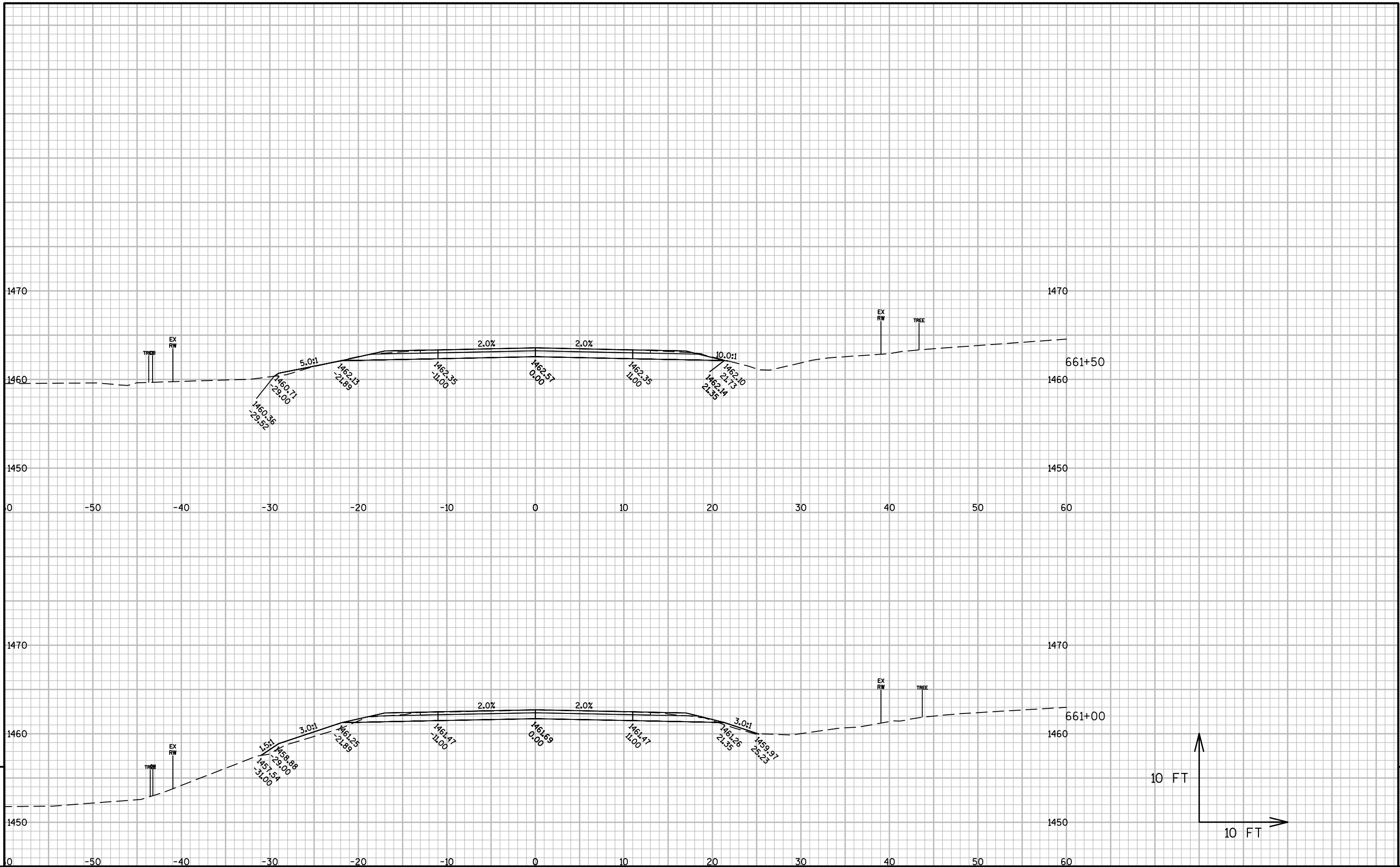


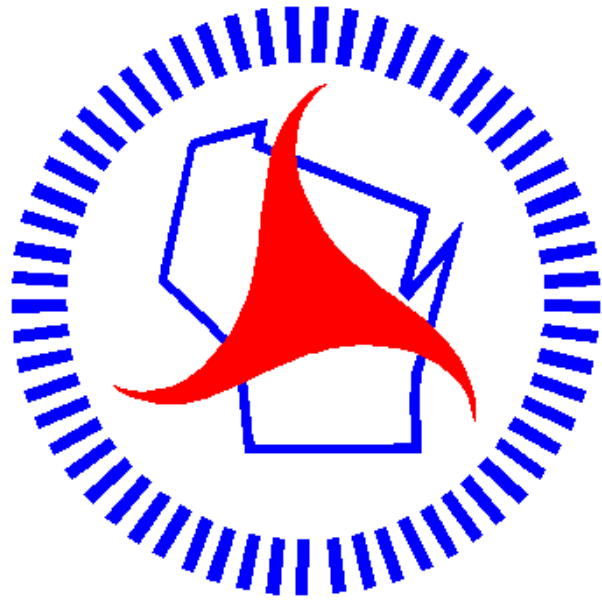












Wisconsin Department of Transportation

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