

GENERAL NOTES

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

NO TREES OR SHRUBS ARE TO BE REMOVED UNLESS SUCH TREES OR SHRUBS HAVE FIRST BEEN INDICATED FOR REMOVAL BY THE ENGINEER IN THE FIELD.

EXISTING DRIVEWAYS SHALL BE RESTORED IN KIND AND THEIR LOCATION VERIFIED BY THE ENGINEER IN THE

HMA PAVEMENT QUANTITIES WERE CALCULATED USING 112 LB/SY/IN.

PAVING LIMITS AT INTERSECTIONS ARE TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

APPLY TACK COAT AT A RATE OF 0.05 GAL/SY BETWEEN LAYERS OF HMA PAVEMENT.

CURVE DATA IS BASED ON THE ARC DEFINITION.

THE CONTRACTOR'S PAVING OPERATIONS SHALL BE CONSISTENT WITH THE PLAN TYPICAL SECTIONS AND CONSTRUCTED TO PREVENT HMA LONGITUDINAL JOINTS FROM BEING LOCATED WITHIN A DRIVING, TURNING,

CONTACTS

DESIGN CONSULTANT

JEWELL ASSOCIATES ENGINEERS, INC. 3406 OAKWOOD HILLS PARKWAY, SUITE 300 EAU CLAIRE, WI 54701 ATTN: DAN GERLING, P.E PH: (715) 900-2602 EMAIL: daniel.gerling@jewellassoc.com

PIERCE COUNTY HIGHWAY DEPARTMENT

CHAD JOHNSON, P.E., COMMISSIONER 621 W. CAIRNS STREET ELLSWORTH, WI 54011 PH: (715) 273-5096 EXT. 6791 EMAIL: chad.johnson@co.pierce.wi.us

WISDOT LOCAL PROGRAM PROJECT MANAGER

944 VANDERPERREN WAY GREEN BAY, WI 54304 ATTN: MATTHEW BERG, P.E. PH: (920) 492-4147 EMAIL: matthew.berg@dot.wi.gov

WDNR LIAISON

STATE OF WISCONSIN DNR WEST CENTRAL REGION HQ 1300 WEST CLAIREMONT AVENUE EAU CLAIRE, WI 54701 ATTN: AMY LESIK PH: (715) 836-6571 CELL: (715) 495-1903 EMAIL: amyL.lesik@wisconsin.gov

LIST OF STANDARD ABBREVIATIONS

ABUT	Abutment	INV	Invert	RDWY	Roadway
AC	Acre	IP	Iron Pipe or Pin	SALV	Salvaged
AGG	Aggregate	IRS	Iron Rod Set	SAN S	Sanitary Sewer
AH	Ahead	JT	Joint	SEC	Section
<	Angle	JCT	Junction	SHLDR	Shoulder
ASPH	Asphaltic	LHF	Left-Hand Forward	SHR	Shrinkage
AVG	Average	L	Length of Curve	SW	Sidewalk
ADT	Average Daily Traffic	LIN FT	Linear Foot	S	
BAD	Base Aggregate Dense	or LF	Linearroot	SQ.	South Square
BK	Back	LC	Long Chord of Curve	SF or SQ FT	
BF	Back Face	MH	Manhole	SY or SQ YD	Square Feet Square Yard
BM	Bench Mark	MB	Mailbox	STD ST SQ 1D	Standard
BR	Bridge	ML or M/L	Match Line	SDD	
C or C/L	Center Line	N	North		Standard Detail Drawings
CC	Center to Center	Y	North Grid Coordinate	STH	State Trunk Highways
C.E.	Commercial Entrance	ÖD	Outside Diameter	STA	Station
CTH	County Trunk Highway	PLE	Permanent Limited	SS	Storm Sewer
CR	Creek		Easement	SG	Subgrade
CR	Crushed	PT	Point	SE	Superelevation
CY or CU YD	Cubic Yard	PC	Point of Curvature	SL or S/L	Survey Line
CP OF CO 1D	Culvert Pipe	PI	Point of Intersection	SV	Septic Vent
C & G	Curb and Gutter	PRC	Point of Reverse	Т	Tangent
D	Degree of Curve	DT	Curvature	TEL	Telephone
DHV	Design Hour Volume	PT	Point of Tangency	TEMP	Temporary
DIA	Diameter	POC	Point On Curve	TI	Temporary Interest
E	East	POT	Point on Tangent	TLE	Temporary Limited
X	East Grid Coordinate	PVC	Polyvinyl Chloride		Easement
ELEC	Electric (al)	PCC	Portland Cement Concrete	t The	Ton
EL or ELEV	Elevation	LB	Pound	T or TN	Town
ESALS	Equivalent Single Axle	PSI	Pounds Per Square Inch	TRANS	Transition
LJALJ	Loads	P.E.	Private Entrance	TL or T/L	Transit Line
EBS	Excavation Below	R	Radius	T	Trucks (percent of)
	Subgrade	RR	Railroad	TYP	Typical
FF	Face to Face	R .	Range	UNCL	Unclassified
F.E.	Field Entrance	RL or R/L	Reference Line	UG	Underground Cable
F	Fill	RP	Reference Point	USH	United States Highway
FG	Finished Grade	RCCP	Reinforced Concrete	VAR	Variable
FL or F/L	Flow Line	2502	Culvert Pipe	V	Velocity or Design Speed
FT	Foot	REQD	Required	VERT	Vertical
FTG	Footing	RES	Residence or Residential	VC	Vertical Curve
GN	Grid North	RW	Retaining Wall	VOL	Volume
HT	Height	RT	Right	WM	Water Main
CWT	Hundredweight	RHF	Right-Hand Forward	WV	Water Valve
HYD	Hydrant	R/W	Right-of-Way	W	West
INL	Inlet	RD	Road	WB	Westbound
ID	Inside Diameter	R	River	YD	Yard

CONTROL POINT TABLE POINT NO STA. OFFSET ELEV. 257,581.17 555,684.51 1125.11 11+27.43 40.58' RT. 1 37+21.21 40.66' LT. 257,605.66 558,279.31 1145.63 44.71' RT. 560,093.73 3 64+92.16 258.888.38 1129.82 91+30.73 53.28' RT. 260,202.65 562,097.93 1064.38 262,886.66 5 122+38 36 30.72' LT. 563,444.82 842.75 150+88.15 37.37' RT. 264,171.51 565,769.89 774.82

ORDER OF SECTION 2 SHEETS:

NOTE: ALL CONTROL POINTS ARE 3/4" REBAR.

UTILITIES

ELECTRICITY

PIERCE-PEPIN COOPERATIVE SERVICES ATTN: BRAD RISTOW W7725 US HIGHWAY 10 P.O. BOX 420 ELLSWORTH, WI 54011 OFFICE: (715) 273-2473 EMAIL: bristow@piercepepin.coop

COMMUNICATION LINE

LUMEN ATTN: KYLE SCHLAMPP 20 S WILSON AVENUE RICE LAKE, WI 54868 OFFICE: (715) 475-2029 CELL: (715) 292-0082 EMAIL: kyle.schlampp@lumen.com

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

* DENOTES UTILITY IS NOT A MEMBER OF DIGGERS HOTLINE

		HYDROLOGIC SOIL GROUP										
A		4	В С			D						
			RANGE CENT)			RANGE CENT)	:		RANGE CENT)	:	SLOPE (PERC	RANGE CENT)
LAND USE	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56
MEDIAN STRIP-TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22 .28	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40
SIDE SLOPE- TURF			.25 .32			.27 .34			.28 .36			.30 .38
PAVEMENT												
ASPHALT						.70	95					
CONCRETE	.8095											
BRICK	CK .7080											
DRIVES, WALKS	DRIVES, WALKS .7585											
ROOFS .7595												
GRAVEL ROADS,	GRAVEL ROADS, SHOULDERS .4060											

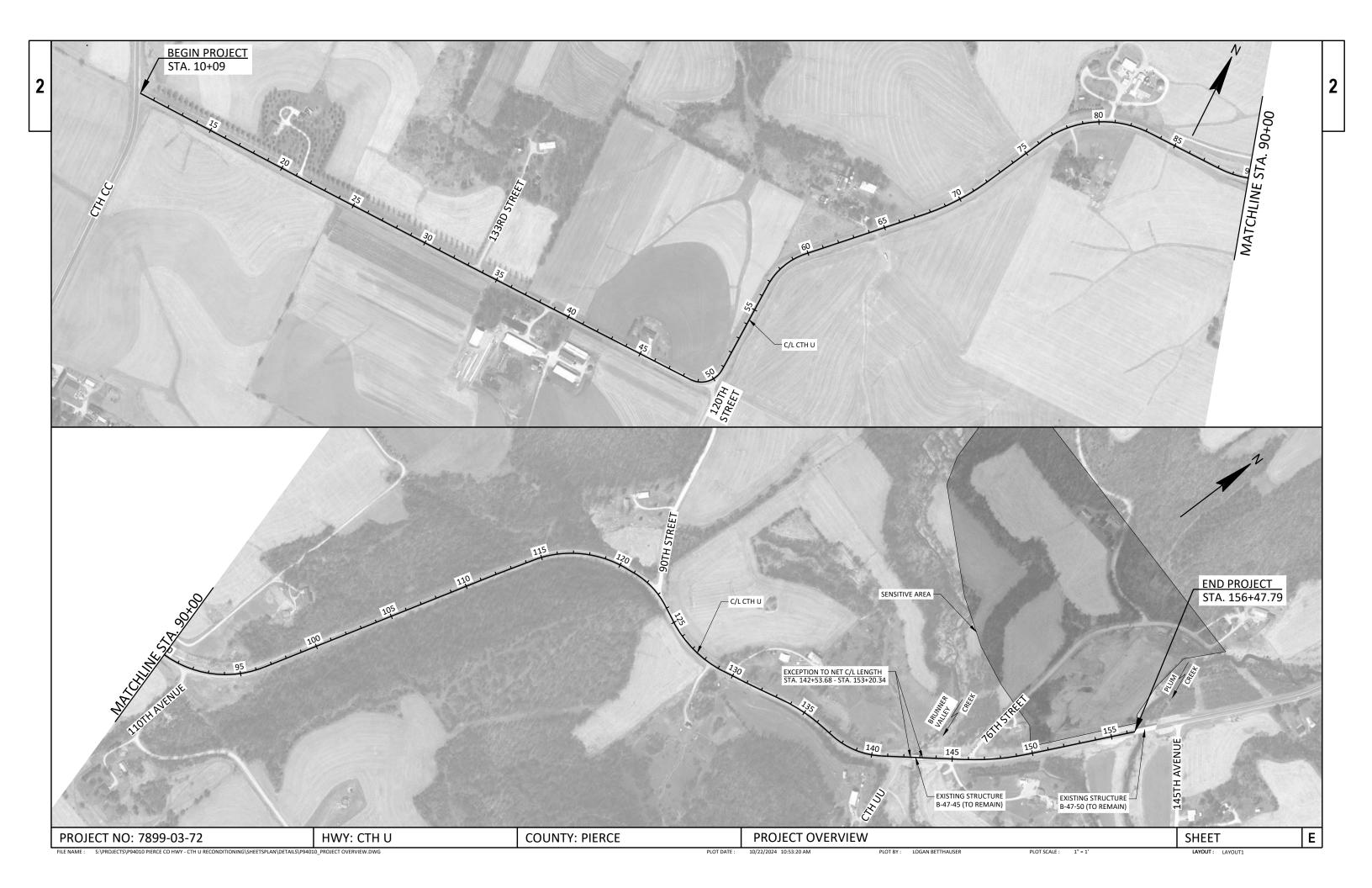
TOTAL PROJECT AREA = 9.40 ACRES

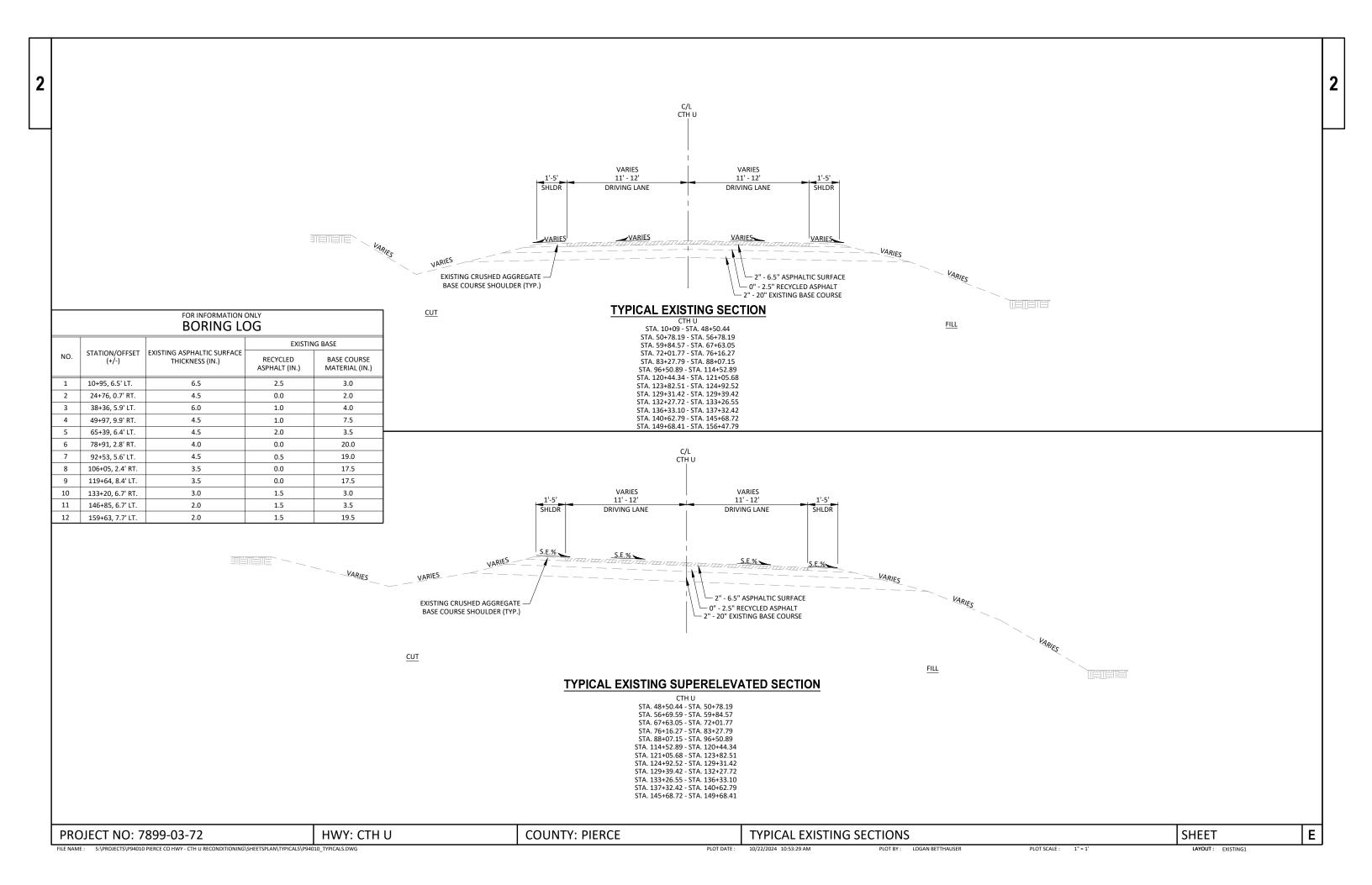
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.00 ACRES

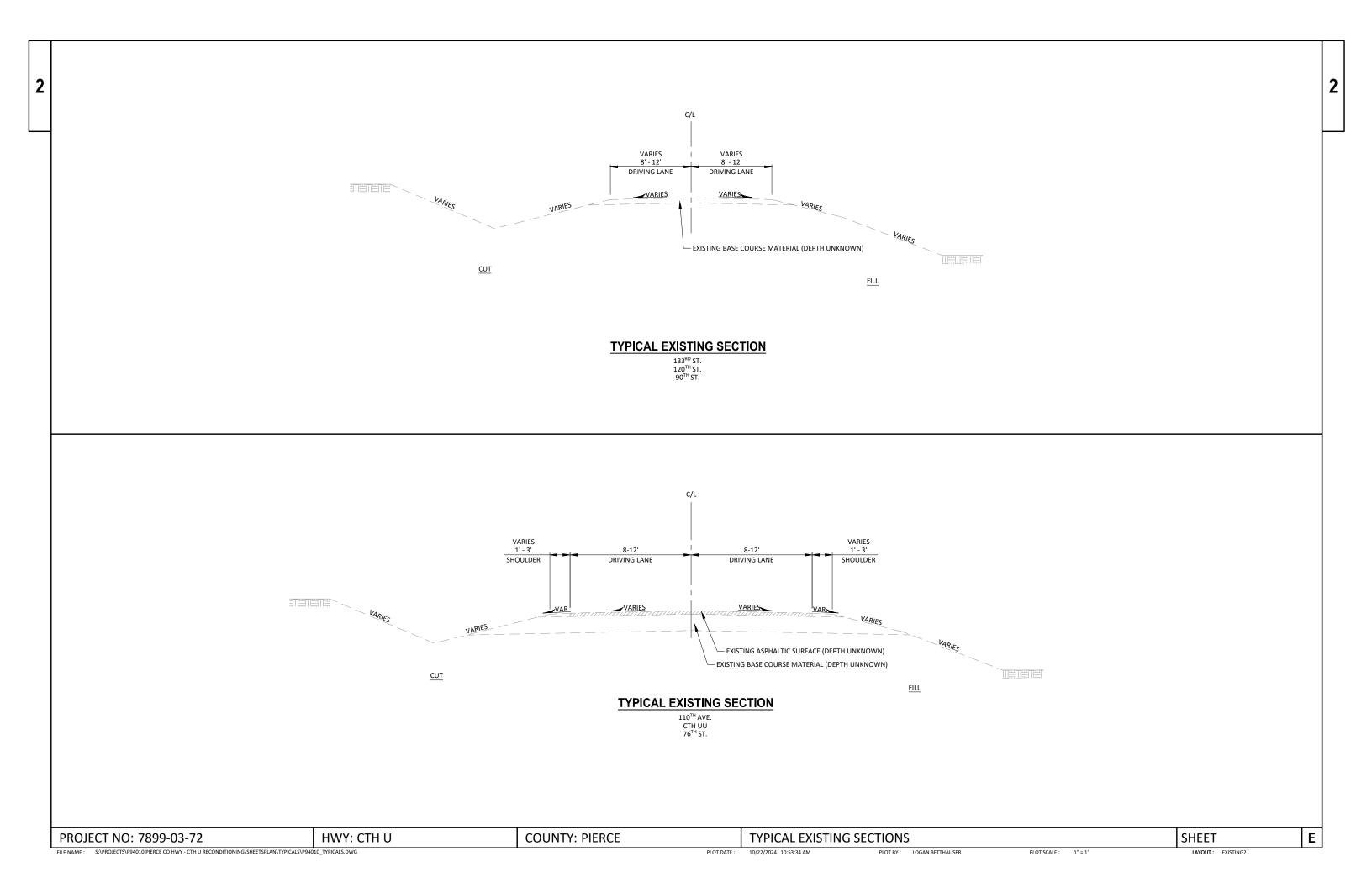
PROJECT NO: 7899-03-72 **COUNTY: PIERCE** GENERAL NOTES, UTILITIES, CONTACTS, & ABBREVIATIONS Ε HWY: CTH U SHEET

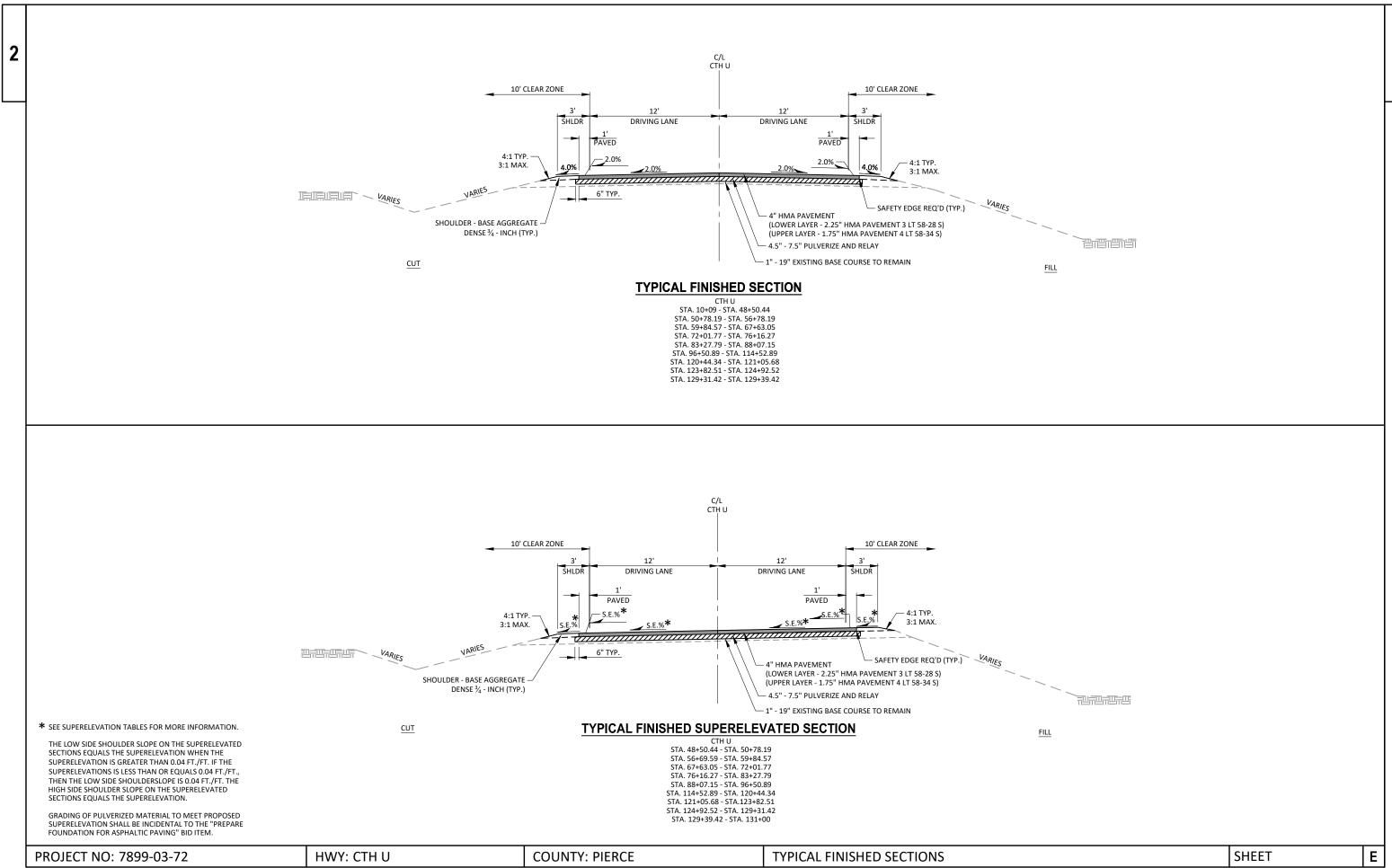
- WRITTEN MATERIAL - PROJECT OVERVIEW - TYPICAL SECTIONS - CONSTRUCTION DETAILS - TRAFFIC CONTROL PLAN

- ALIGNMENT LAYOUT











<u>CUT</u>

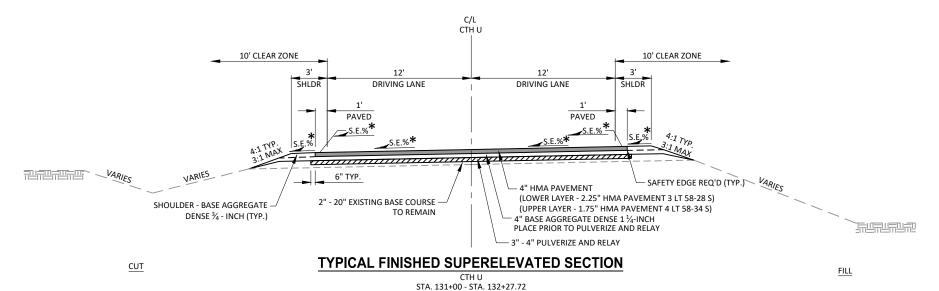
C/L CTH U 10' CLEAR ZONE 10' CLEAR ZONE DRIVING LANE DRIVING LANE PAVED PAVED A Million Marie Ma VARIES SAFETY EDGE 6" TYP. REQ'D (TYP.) - 4" HMA PAVEMENT SHOULDER - BASE AGGREGATE -(LOWER LAYER - 2.25" HMA PAVEMENT 3 LT 58-28 S) DENSE 3/4 - INCH (TYP.) (UPPER LAYER - 1.75" HMA PAVEMENT 4 LT 58-34 S) 2" - 20" EXISTING BASE COURSE -- 4" BASE AGGREGATE DENSE 1 ½-INCH PLACE PRIOR TO PULVERIZE AND RELAY - 3" - 4" PULVERIZE AND RELAY

FILL

Ε

CTH U STA. 132+27.72 - STA. 133+26.55 STA. 136+33.10 - STA. 137+32.42 STA. 140+62.79 - STA. 145+68.72 STA. 149+68.41 - STA. 156+47.79

TYPICAL FINISHED SECTION



* SEE SUPERELEVATION TABLES FOR MORE INFORMATION.

THE LOW SIDE SHOULDER SLOPE ON THE SUPERELEVATED SECTIONS EQUALS THE SUPERELEVATION WHEN THE SUPERELEVATION IS GREATER THAN 0.04 FT./FT. IF THE SUPERELEVATIONS IS LESS THAN OR EQUALS 0.04 FT./FT., THEN THE LOW SIDE SHOULDERSLOPE S 0.04 FT./FT. THE HIGH SIDE SHOULDER SLOPE ON THE SUPERELEVATED SECTIONS EQUALS THE SUPERELEVATION.

GRADING OF PULVERIZED MATERIAL TO MEET PROPOSED SUPERELEVATION SHALL BE INCIDENTAL TO THE "PREPARE FOUNDATION FOR ASPHALTIC PAVING" BID ITEM.

STA. 133+26.55 - STA. 136+33.10 STA. 137+32.42 - STA. 140+62.79 STA. 145+68.72 - STA. 149+68.41

PROJECT NO: 7899-03-72 HWY: CTH U

FILE NAME: SAPROJECTS POPULO PIERCE CO HWY: CTH U RECONDITIONING SHEETS PLANTY PICALS PAGE 18"-1"

FILE NAME: SAPROJECTS POPULO PIERCE CO HWY: CTH U RECONDITIONING SHEETS PLANTY PICALS PAGE 18"-1"

FILE NAME: SAPROJECTS POPULO PIERCE CO HWY: CTH U RECONDITIONING SHEETS PLANTY PICALS PAGE 18"-1"

FILE NAME: SAPROJECTS POPULO PIERCE CO HWY: CTH U RECONDITIONING SHEETS PLANTY PICALS PAGE 18"-1"

FILE NAME: SAPROJECTS POPULO PIERCE CO HWY: CTH U RECONDITIONING SHEETS PLANTY PICALS PAGE 18"-1"

FILE NAME: SAPROJECTS POPULO PIERCE CO HWY: CTH U RECONDITIONING SHEETS PLANTY PICALS PAGE 18"-1"

FILE NAME: SAPROJECTS POPULO PIERCE CO HWY: CTH U RECONDITIONING SHEETS PLANTY PICALS PAGE 18"-1"

FILE NAME: SAPROJECTS POPULO PIERCE CO HWY: CTH U RECONDITIONING SHEETS PLANTY PICALS PAGE 18"-1"

FILE NAME: SAPROJECTS POPULO PIERCE CO HWY: CTH U RECONDITIONING SHEETS PLANTY PICALS PAGE 18"-1"

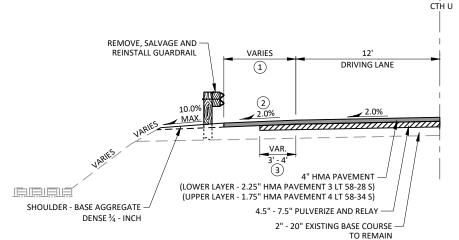
FILE NAME: SAPROJECTS POPULO PIERCE PAGE 18"-1"

FILE NAME: SAPROJECTS PAGE 18"-1"

FILE NAME: SAPROJECTS POPULO PIERCE PAGE 18"-1"

FILE NAME: SAPROJECTS PAGE 18"

FILE NAME: SAPROJECTS



NOTES:
BEAM GUARD ON LEFT IS SHOWN. BEAM GUARD ON RIGHT IS MIRRORED.

1 LIMITS OF PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS.

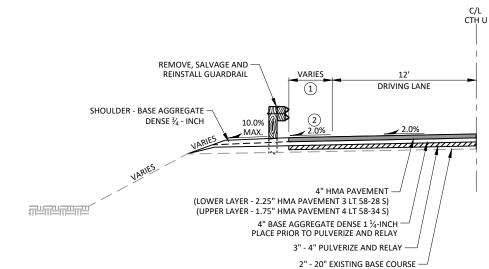
WIDTH VARIES:

6' - 8' (STA. 96+92 - STA. 104+52, RT.) 8' - 10' (STA. 102+15 - STA. 108+52, LT.)

- (2) PAVED SHOULDER CROSS SLOPE VARIES FROM A MINIMUM OF 2.0% TO A MAXIMUM OF 4.0%.
- 3 PULVERIZE AND RELAY FULL WIDTH OF EXISTING PAVED

TYPICAL HALF FINISHED BEAM GUARD SECTION

CTH U STA. 96+92 - STA. 104+52, RT. STA. 102+15 - STA. 108+52, LT.



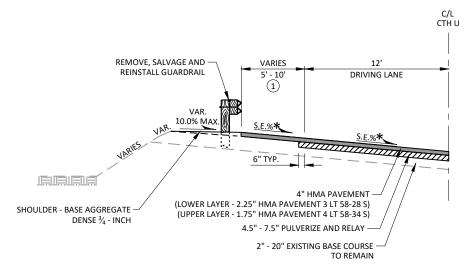
 $\frac{\text{NOTES:}}{\text{BEAM GUARD ON LEFT IS SHOWN.}} \ \ \text{BEAM GUARD ON RIGHT IS MIRRORED.}$

- 1 WIDTH VARIES:
- 4' 7' (STA. 141+51 STA. 144+06, LT.) 5' - 8' (STA. 141+80 - STA. 144+06, RT.)
- 3' 5' (STA. 155+14 STA. 156+48, RT.)
- 3' 5' (STA. 155+71 STA. 156+56, LT.)
- (2) PAVED SHOULDER CROSS SLOPE VARIES FROM A MINIMUM OF 2.0% TO A MAXIMUM OF 4.0%.

TYPICAL HALF FINISHED BEAM GUARD SECTION

2

CTH U STA. 141+50 - STA. 144+06, LT. STA. 141+80 - STA. 144+06, RT. STA. 155+14 + STA. 156+47.79, RT. STA. 155+71 - STA. 156+47.79, LT



BEAM GUARD ON LEFT IS SHOWN. BEAM GUARD ON RIGHT IS MIRRORED.

- 1) LIMITS OF PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS.
- * SEE SUPERELEVATION TABLES FOR MORE INFORMATION.

TYPICAL HALF FINISHED SUPERELEVATED BEAM GUARD SECTION

CTH U STA. 114+30 - STA. 122+23, LT.

PROJECT NO: 7899-03-72 HWY: CTH U **COUNTY: PIERCE TYPICAL FINISHED SECTIONS** SHEET Ε PLOT SCALE: 1" = 1' LAYOUT: PROPOSED GUARD

SUPERELEVATION TABLE-CURVE 1

STATION	LEFT(%)	RIGHT(%)			
47+48	2.0	2.0			
47+50	2.0	1.9			
47+82	2.0	0.0			
48+00	2.0	1.1			
48+16	2.0	2.0			
48+50	4.0	4.0			
48+85	6.0	6.0			
FULL SUPERELEVATION					
50+44	6.0	6.0			
50+50	5.6	5.6			
50+80	4.0	4.0			
51+00	2.7	2.7			
51+13	2.0	2.0			
51+47	2.0	0.0			
51+50	2.0	0.2			
51+81	2.0	2.0			

SUPERELEVATION TABLE-CURVE 2

LEFT(%)	RIGHT(%)			
2.0	2.0			
0.0	2.0			
0.3	2.0			
2.0	2.0			
2.9	2.9			
3.9	3.9			
5.5	5.5			
5.9	5.9			
FULL SUPERELEVATION				
5.9	5.9			
5.7	5.7			
3.9	3.9			
3.1	3.1			
2.0	2.0			
0.6	2.0			
0.0	2.0			
2.0	2.0			
	2.0 0.0 0.3 2.0 2.9 3.9 5.5 5.9 ERELEVATIO 5.9 5.7 3.9 3.1 2.0 0.6 0.0			

SUPERELEVATION TABLE-CURVE 3

OI LIVELL V	*****	171066			
STATION	LEFT(%)	RIGHT(%)			
66+15	2.0	2.0			
66+50	2.0	0.6			
66+66	2.0	0.0			
67+00	2.0	1.3			
67+17	2.0	2.0			
67+50	3.3	3.3			
67+63	3.8	3.8			
68+00	5.2	5.2			
68+12	5.7	5.7			
FULL SUPERELEVATION					
71+53	5.7	5.7			
72+00	3.9	3.9			
72+01	3.8	3.8			
72+48	2.0	2.0			
72+50	2.0	1.9			
73+00	2.0	0.0			
73+50	2.0	2.0			

SUPERELEVATION TABLE-CURVE 4

STATION	LEFT(%)	RIGHT(%)			
74+84	2.0	2.0			
75+00	1.6	2.0			
75+28	0.0	2.0			
75+50	1.0	2.0			
75+72	2.0	2.0			
76+00	3.3	3.3			
76+16	4.0	4.0			
76+50	5.5	5.5			
76+61	6.0	6.0			
FULL SUPERELEVATION					
82+83	6.0	6.0			
83+00	5.3	5.3			
83+28	4.0	4.0			
83+50	3.0	3.0			
83+72	2.0	2.0			
84+00	0.7	2.0			
84+16	0.0	2.0			
84+50	1.5	2.0			
84+60	2.0	2.0			

SUPERELEVATION TABLE-CURVE 5

• · · · · · · · · · · · · · · · · · · ·						
STATION	LEFT(%)	RIGHT(%)				
86+74	2.0	2.0				
87+00	2.0	0.8				
87+18	2.0	0.0				
87+50	2.0	1.4				
87+63	2.0	2.0				
88+00	3.7	3.7				
88+07	4.0	4.0				
88+50	5.9	5.9				
88+51	6.0	6.0				
FULL SUPE	FULL SUPERELEVATION					
96+07	6.0	6.0				
96+50	4.0	4.0				
96+95	2.0	2.0				
97+00	2.0	1.8				
97+40	2.0	0.0				
97+50	2.0	0.5				
97+84	2.0	2.0				

SUPERELEVATION TABLE-CURVE 6

STATION	LEFT(%)	RIGHT(%)		
113+30	2.0	2.0		
113+50	1.0	2.0		
113+71	0.0	2.0		
114+00	1.4	2.0		
114+12	2.0	2.0		
114+50	3.8	3.8		
114+52	3.9	3.9		
114+93	5.9	5.9		
FULL SUPERELEVATION				
115+02	5.9	5.9		
115+50	6.0	6.0		

SUPERELEVATION TABLE-CURVE 7

STATION	LEFT(%)	RIGHT(%
115+50	6.0	6.0
115+87	6.0	6.0
FULL SUPE	RELEVATIO	N
120+00	6.0	6.0
120+44	4.0	4.0
120+50	4.0	4.0

SUPERELEVATION TABLE-CURVE 8

STATION	LEFT(%)	RIGHT(%)		
120+50	4.0	4.0		
121+00	4.0	4.0		
121+05	4.0	4.0		
121+47	6.0	6.0		
FULL SUPERELEVATION				
123+41	6.0	6.0		
123+50	5.4	5.4		
124+00	2.4	2.4		
124+39	0.0	0.0		

SUPERELEVATION TABLE-CURVE 9

LEFT(%)	RIGHT(%)				
0.0	0.0				
0.7	0.7				
3.7	3.7				
6.0	6.0				
FULL SUPERELEVATION					
6.0	6.0				
5.4	5.4				
3.2	3.2				
2.3	2.3				
	0.0 0.7 3.7 6.0 ERELEVATIO 6.0 5.4 3.2				

SUPERELEVATION TABLE-CURVE 10

STATION	LEFT(%)	RIGHT(%)		
129+69	2.3	2.3		
FULL SUPERELEVATION				
132+08	2.3	2.3		
132+50	0.2	0.2		
132+55	0.0	0.0		

SUPERELEVATION TABLE-CURVE 11

STATION	LEFT(%)	RIGHT(%)
132+55	0.0	0.0
133+00	2.2	2.2
133+50	4.6	4.6
133+78	6.0	6.0
FULL SUPE	RELEVATIO	N
135+82	6.0	6.0
136+00	4.9	4.9
136+50	2.0	2.0
136+83	0.0	0.0

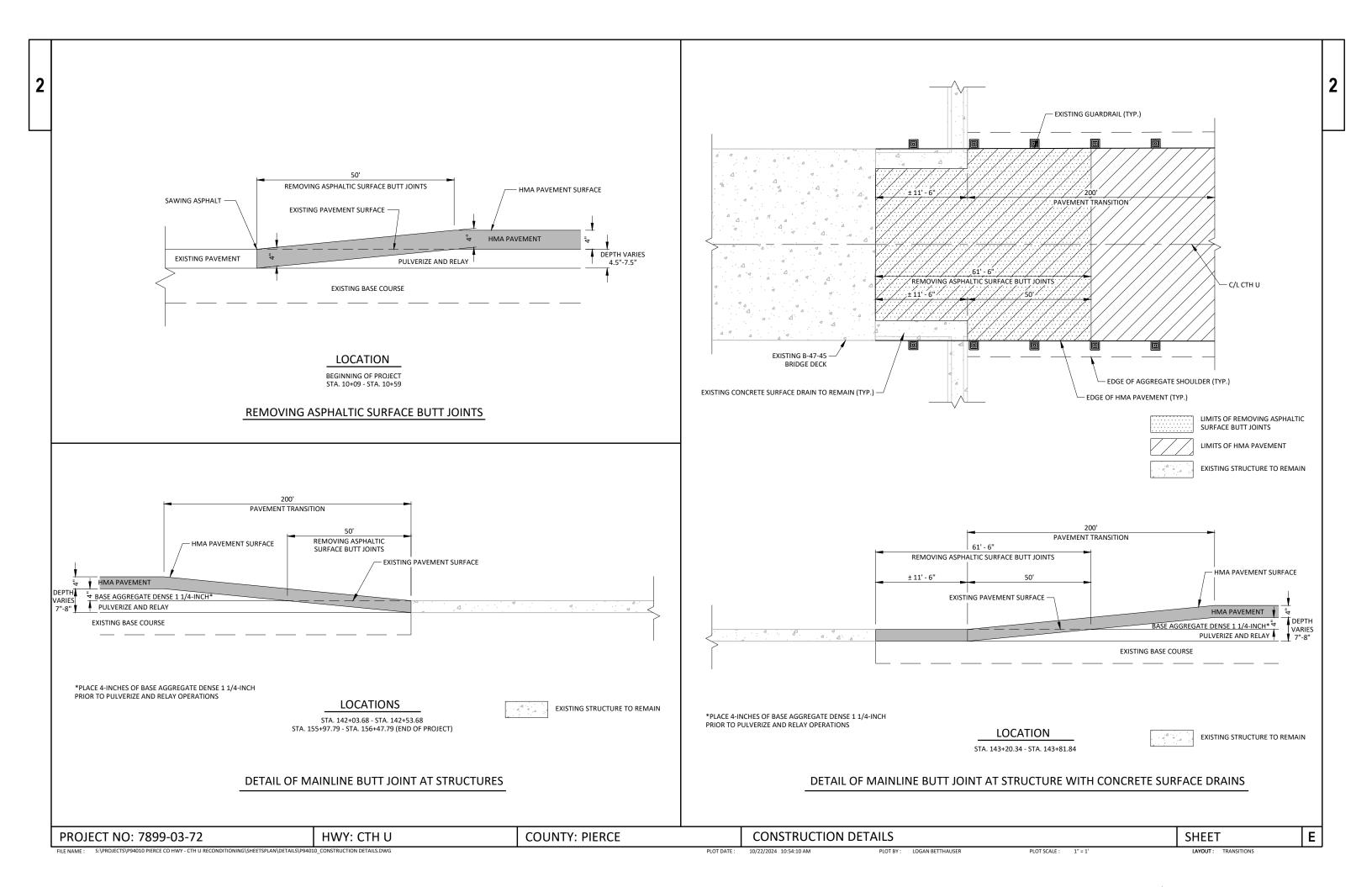
SUPERELEVATION TABLE-CURVE 12

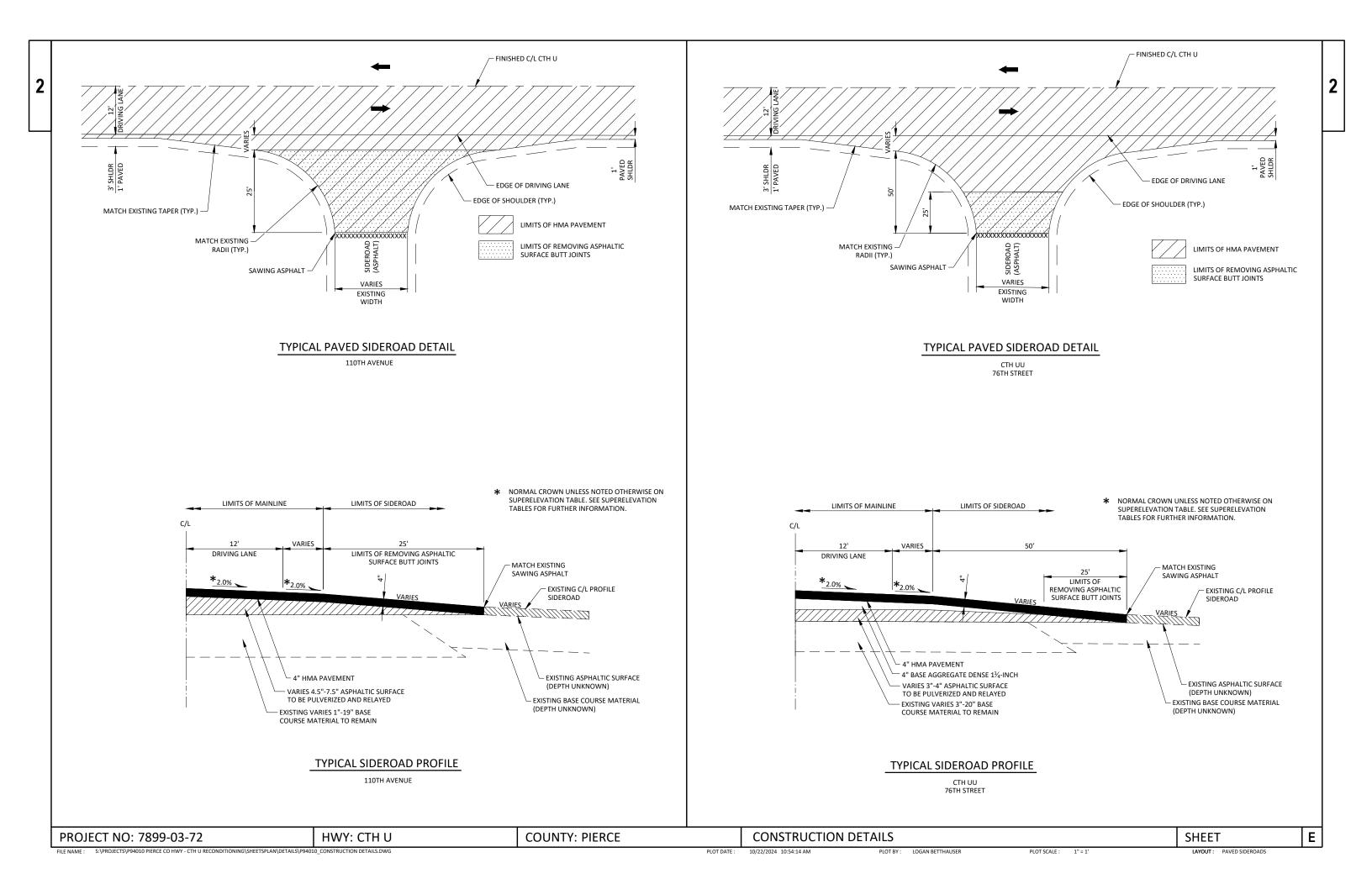
STATION	LEFT(%)	RIGHT(%)
136+83	0.0	0.0
137+00	1.0	1.0
137+50	4.0	4.0
137+74	6.0	6.0
FULL SUPE	RELEVATIO	N
140+21	6.0	6.0
140+50	4.6	4.6
140+63	4.0	4.0
141+00	2.2	2.2
141+04	2.0	2.0
141+45	2.0	0.0
141+50	2.0	0.2
141+86	2.0	2.0

SUPERELEVATION TABLE-CURVE 13

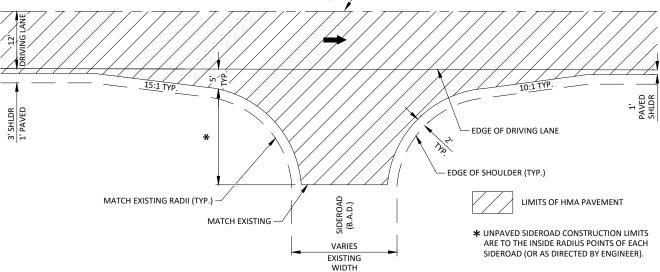
STATION	LEFT(%)	RIGHT(%)
144+26	2.0	2.0
144+50	2.0	1.1
144+77	2.0	0.0
145+00	2.0	0.9
145+28	2.0	2.0
145+50	2.9	2.9
145+69	3.6	3.6
146+00	4.8	4.8
146+15	5.4	5.4
FULL SUPE	RELEVATIO	N
149+22	5.4	5.4
149+50	4.3	4.3
149+68	3.6	3.6
150+00	2.4	2.4
150+09	2.0	2.0
150+50	2.0	0.4
150+60	2.0	0.0
151+00	2.0	1.6
151+11	2.0	2.0

PROJECT NO: 7899-03-72 COUNTY: PIERCE Ε HWY: CTH U SUPERELEVATION TABLES SHEET



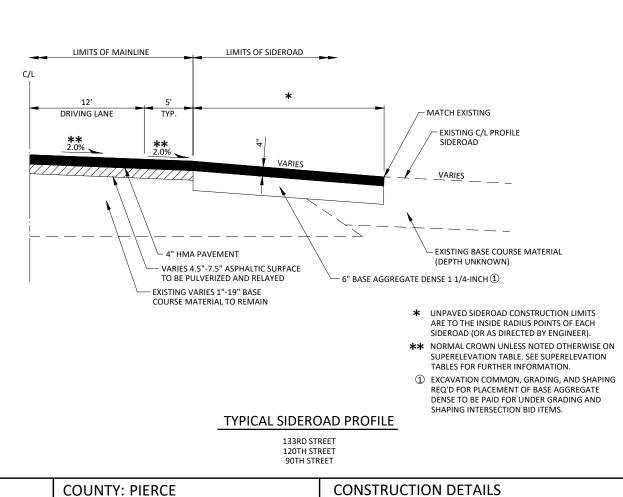






TYPICAL UNPAVED SIDEROAD DETAIL

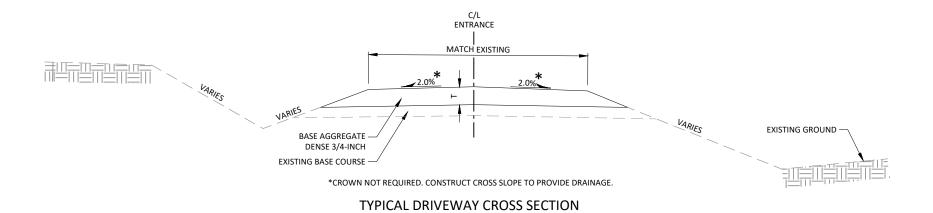
133RD STREET 120TH STREET 90TH STREET



HWY: CTH U

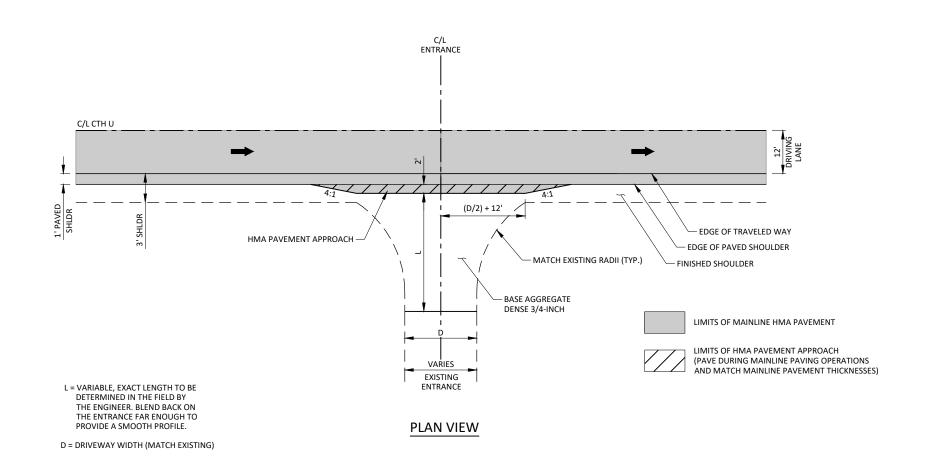
Ε

PROJECT NO: 7899-03-72



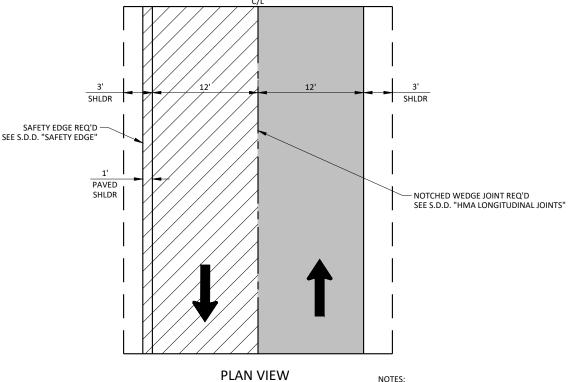
STATION	Т
21+15,LT.	4.0"
34+75, RT.	4.0"
38+65, LT.	4.0"
38+65, RT.	4.0"
45+50, LT.	4.0"
64+00, LT.	4.0"
64+50, RT.	4.0"
78+20, RT.	4.0"
80+75, LT.	4.0"
84+60, RT.	4.0"
84+90, LT.	4.0"
128+50, RT.	4.0"
129+50, RT.	4.0"
129+90, LT.	4.0"
144+25, RT.	4.0"
145+00, RT.	8.0"

THICKNESS VARIES, GRADE TO MATCH EXISTING ENTRANCES. SHAPING OF SURFACES IS INCIDENTAL TO THE BASE AGGREGATE DENSE 3/4-INCH BID ITEM.



TYPICAL P.E. & F.E. ENTRANCE DETAIL

COUNTY: PIERCE PROJECT NO: 7899-03-72 Ε HWY: CTH U **CONSTRUCTION DETAILS SHEET**



PULVERIZE AND RELAY

FIRST PASS 2.25" HMA PAVEMENT

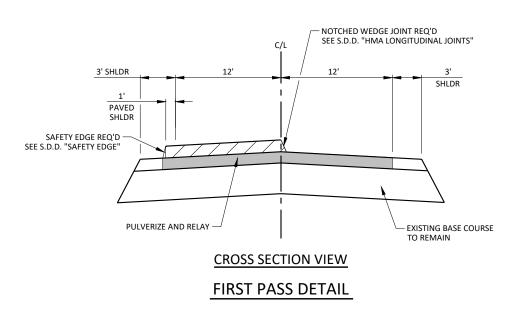
DOCUMENT AND MARK THE LOCATIONS OF EXISTING MARKING LINE PASSING ZONES PRIOR TO PULVERIZE AND RELAY

PLACE "NO CENTERLINE" (W8-12, 36" X 36")AT EACH END OF THE PROJECT AND AFTER EACH SIDE OF THE ROAD PRIOR TO PULVERIZE AND RELAY.

PLACE "NO PASSING ZONE (R4-1, 24"x30"), "UNEVEN LANES" (W8-11, 36"x36"), "LOW SHOULDER" (W8-9, 36"x36"), OR "SHOULDER DROPOFF" (W8-9A, 36"x36") EVERY 2 MILES ALONG

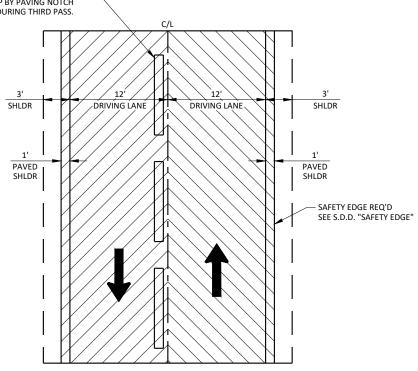
COUNTY: PIERCE

REFER TO STANDARD DETAIL DRAWING "TEMPORARY LONGITUDINAL PAVEMENT MARKING" FOR ADDITIONAL INFORMATION



HWY: CTH U

TEMPORARY MARKING LINE PAINT 4-INCH (SINGLE LINE 4' SKIPS) PLACED AFTER FIRST PASS AND TO REMAIN FOR SECOND AND THIRD PASS. PLACE PAINT SO AS NOT TO BE COVERED UP BY PAVING NOTCH DURING THIRD PASS.

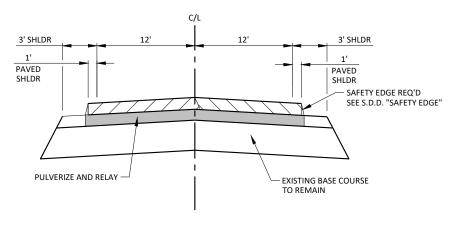


PLAN VIEW

FIRST PASS 2.25" HMA PAVEMENT 3 LT 58-28 S PAVING LIMITS SECOND PASS 2.25" HMA PAVEMENT 3 LT 58-28 S PAVING LIMITS

NOTES: PLACE "NO PASSING ZONE (R4-1, 24"x30"), "UNEVEN LANES" (W8-11, 36"x36"), "LOW SHOULDER" (W8-9, 36"x36"), OR "SHOULDER DROPOFF" (W8-9A, 36"x36") EVERY 2 MILES ALONG THE PROJECT LENGTH.

REFER TO STANDARD DETAIL DRAWING "TEMPORARY LONGITUDINAL PAVEMENT MARKING" FOR ADDITIONAL INFORMATION



CROSS SECTION VIEW SECOND PASS DETAIL

CONSTRUCTION DETAILS: PAVING SEQUENCE OF OPERATIONS

SHEET

FILE NAME: S:\PROJECTS\P94010 PIERCE CO HWY - CTH U RECONDITIONING\SHEETSPLAN\DETAILS\P94010_CONSTRUCTION DETAILS.DWG

PROJECT NO: 7899-03-72

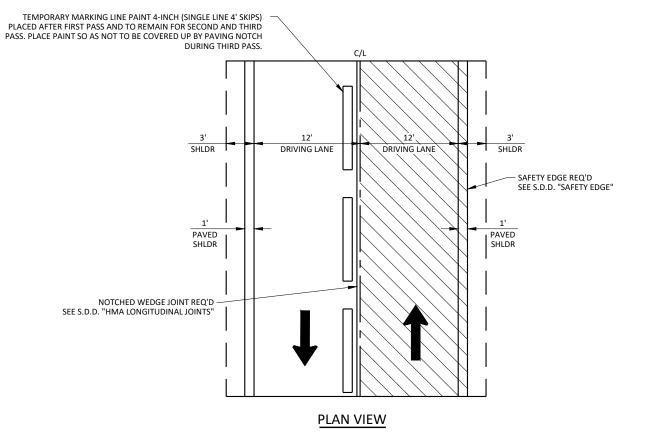
2/12/2025 12:58:12 PM

PLOT BY: DANIEL GERLING

PLOT SCALE : 1" = 1'

LAYOUT: HMA SEQUENCE1

Ε



THIRD PASS 1.75" HMA PAVEMENT 4 LT 58-34 S (SURFACE LAYER) PAVING

SECOND PASS

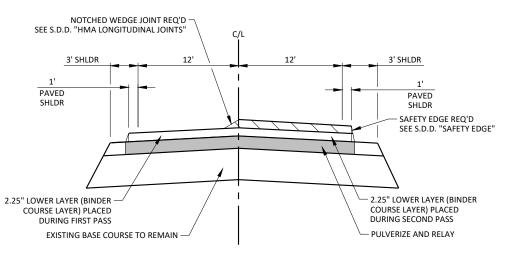
THE PROJECT LENGTH. REFER TO STANDARD DETAIL DRAWING "TEMPORARY LONGITUDINAL PAVEMENT MARKING" FOR ADDITIONAL

PLACE "NO PASSING ZONE (R4-1, 24"x30"), "UNEVEN LANES"

"SHOULDER DROPOFF" (W8-9A, 36"x36") EVERY 2 MILES ALONG

(W8-11, 36"x36"), "LOW SHOULDER" (W8-9, 36"x36"), OR

2.25" LOWER LAYER (BINDER COURSE LAYER) PLACED DURING FIRST AND INFORMATION



CROSS SECTION VIEW THIRD PASS DETAIL

PROJECT NO: 7899-03-72 HWY: CTH U **COUNTY: PIERCE**

CONSTRUCTION DETAILS: PAVING SEQUENCE OF OPERATIONS

PLOT BY: DANIEL GERLING

SHEET

MARKING LINE EPOXY 4-INCH DRIVING LANE DRIVING LANE SHLDR SAFETY EDGE REQ'D -SEE S.D.D. "SAFETY EDGE" PAVED PAVED SHLDR SHLDR

PLAN VIEW

THIRD PASS 1.75" HMA PAVEMENT 4 LT 58-34 S PAVING LIMITS

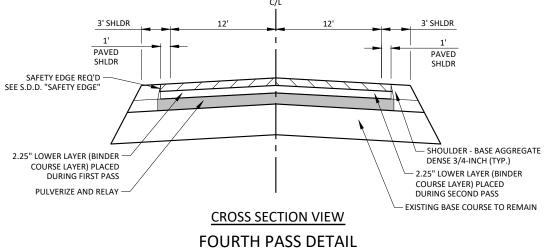
FOURTH PASS 1.75" HMA PAVEMENT 4 LT 58-34 S PAVING LIMITS

NOTE: REFER TO STANDARD DETAIL DRAWING "LONGITUDINAL MARKING (MAINLINE)" FOR ADDITIONAL INFORMATION

PLACE "NO CENTERLINE" (W8-12, 48"x48"), AT THE BEGINNING OF THE PROJECT, AT TWO MILE INTERVALS, AND AFTER COUNTY HIGHWAY INTERSECTIONS.

PLACE "DO NOT PASS" (R4-1, 24"x30") AT THE BEGINNING OF THE PROJECT, AT ONE MILE INTERVALS, AND AFTER COUNTY HIGHWAY INTERSECTIONS.

LEAVE SIGNS IN PLACE UNTIL CENTERLINE PAVEMENT MARKINGS ARE PLACED.



Ε

FILE NAME: S:\PROJECTS\P94010 PIERCE CO HWY - CTH U RECONDITIONING\SHEETSPLAN\DETAILS\P94010 CONSTRUCTION DETAILS.DWG

2/12/2025 12:58:46 PM

PLOT SCALE : 1" = 1'

LAYOUT: HMA SEQUENCE2

GENERAL NOTES FOR TRAFFIC CONTROL

ALL ROADS AND STREETS WITHIN THE WORK ZONES SHALL BE KEPT ACCESSIBLE FOR EMERGENCY VEHICLES, RESIDENTS AND BUSINESSES.

ANY STOP SIGNS WHICH ARE REMOVED FOR A CONSTRUCTION OPERATION SHALL BE IMMEDIATELY

ALL SIGN LAYOUT SHALL BE IN ACCORDANCE WITH THE STANDARD DETAIL DRAWINGS AND WISCONSIN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

PROVIDE AND MAINTAIN ACCESS TO ALL PROPERTY ABUTTING THE ROADWAY CONSTRUCTION WORK THROUGHOUT THE DURATION OF THE PROJECT.

DURING NIGHT SHUTDOWN, ONE LANE IN EACH DIRECTION MUST REMAIN OPEN.

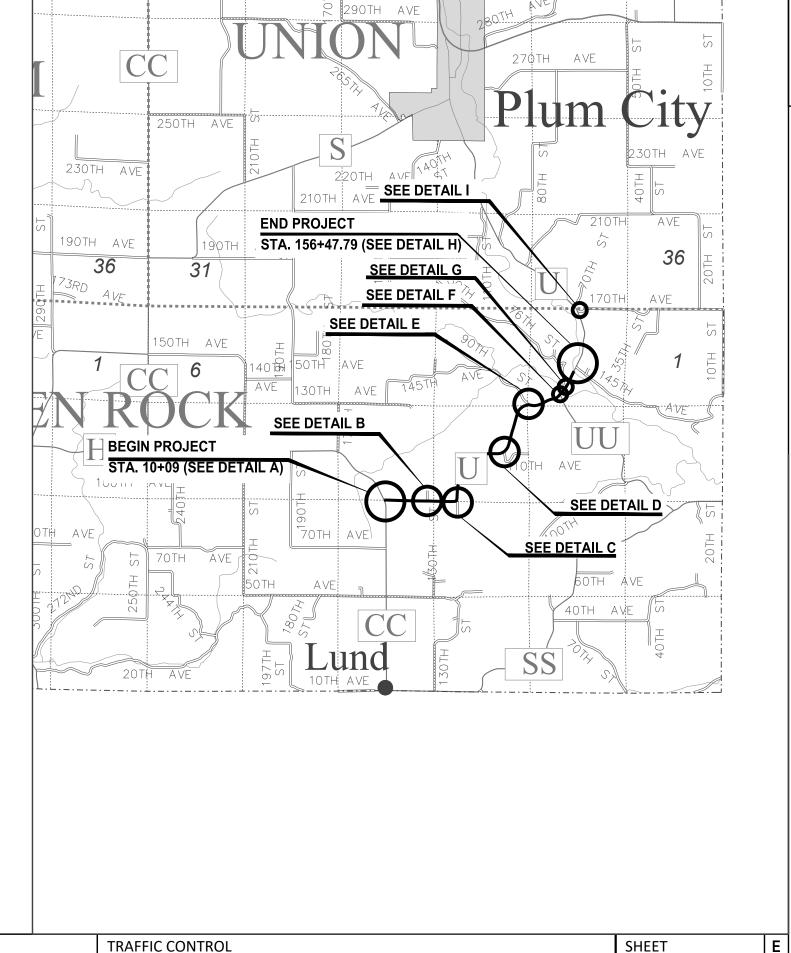
DURING HOURS OF DARKNESS, ALL BARRICADES USED TO SHIELD A HAZARD SHALL BE EQUIPPED WITH TYPE "A" (LOW INTENSITY FLASHING) LIGHTS.

DRAWINGS SHOW TRAFFIC CONTROL FOR A TYPICAL SITUATION. ADDITIONAL TRAFFIC CONTROL DEVICES MAY BE REQUIRED AND/OR LAYOUT DETAILS MODIFIED DEPENDING ON CONTRACTOR'S METHODS OR SEQUENCES OF OPERATION.

ROAD MACHINERY, FLAGGERS AHEAD, ETC. SIGNS SHALL BE USED AS NEEDED AND SHALL BE REMOVED OR COVERED AT NIGHTS, ON WEEKENDS OR WHEN THE ACTIVITY DOES NOT EXIST.

DRUMS PLACED ADJACENT TO WORK AREAS SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS

FIXED MESSAGE SIGNS (G20-57C) TO BE PLACED 14 DAYS PRIOR TO CONSTRUCTION STARTING. THE "XXX-XX" IN THE FIXED MESSAGE SHALL BE THE DATE OF THE ROAD CLOSURE. FOR EXAMPLE, JUNE 24TH WOULD BE "JUN 24".



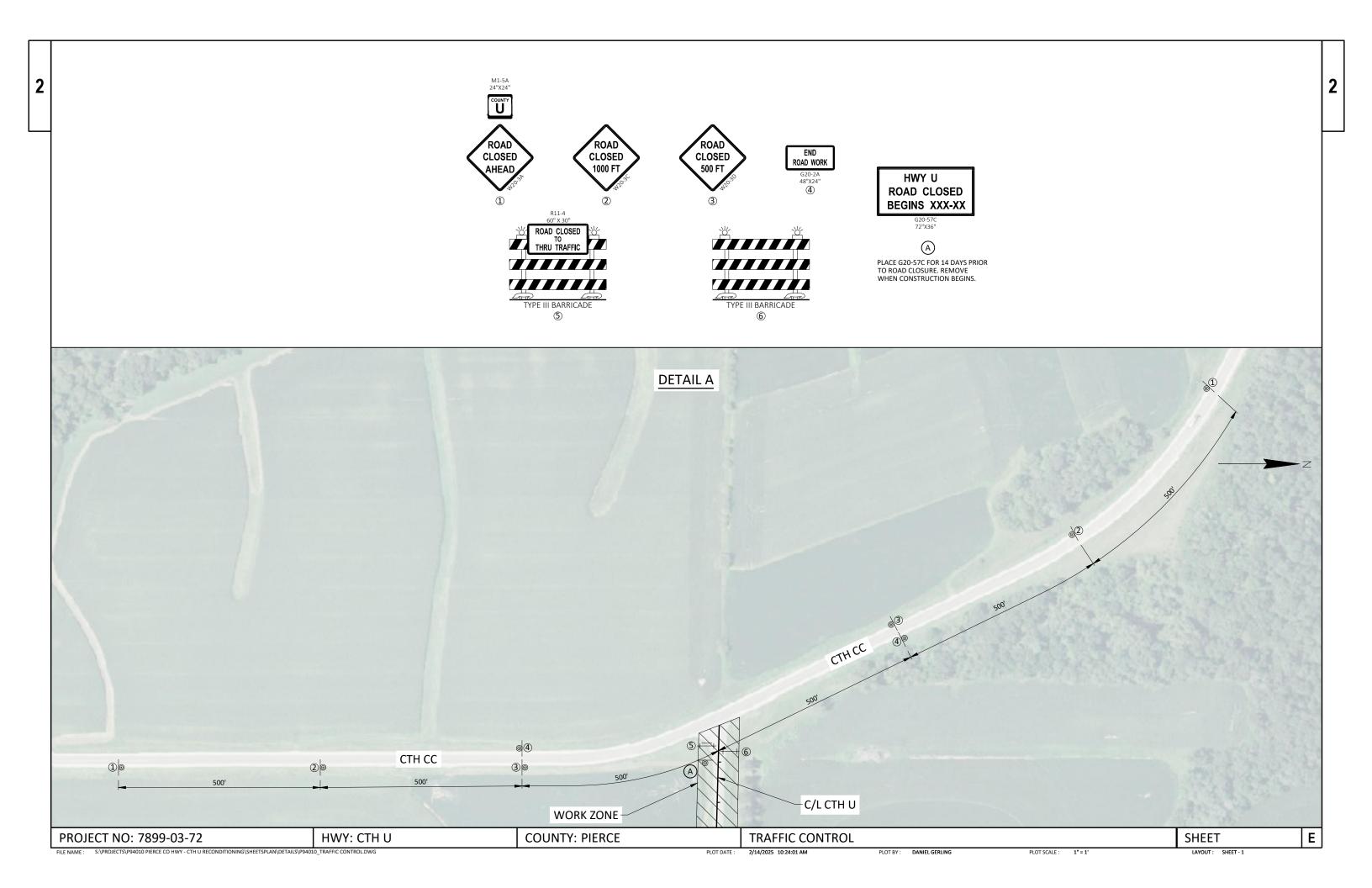
HWY: CTH U PROJECT NO: 7899-03-72

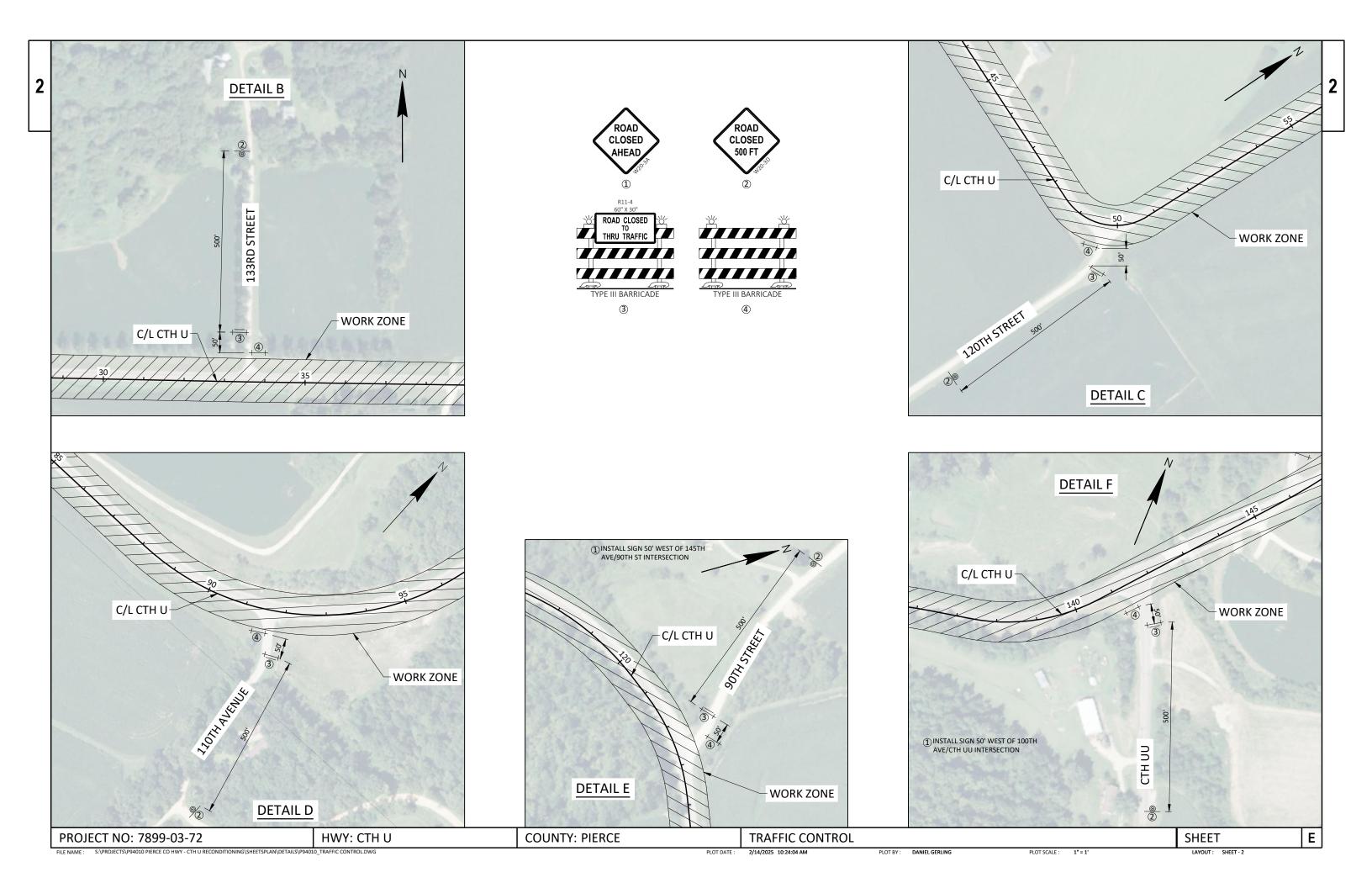
COUNTY: PIERCE

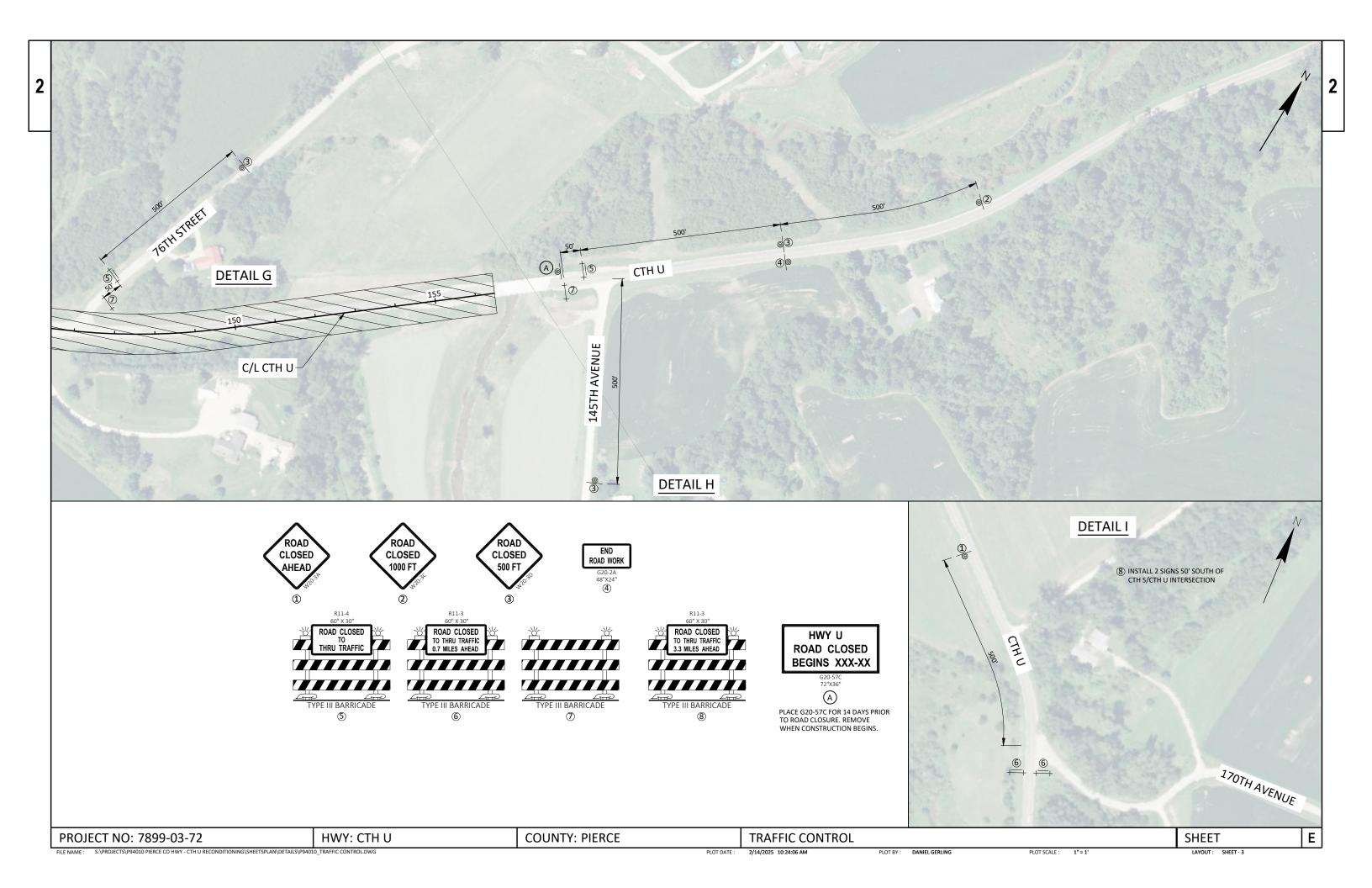
TRAFFIC CONTROL

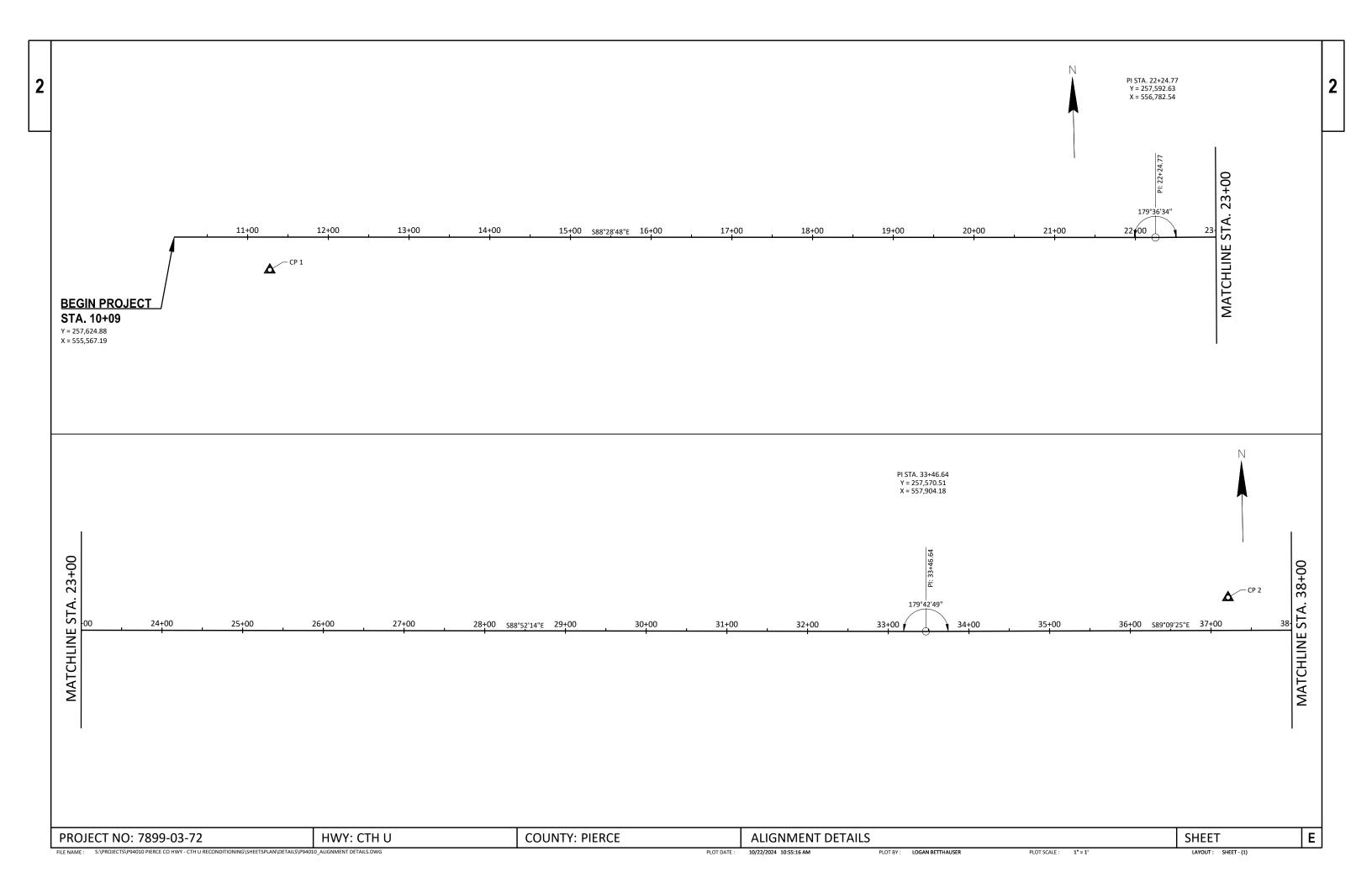
LAYOUT: TF OVERVIEW

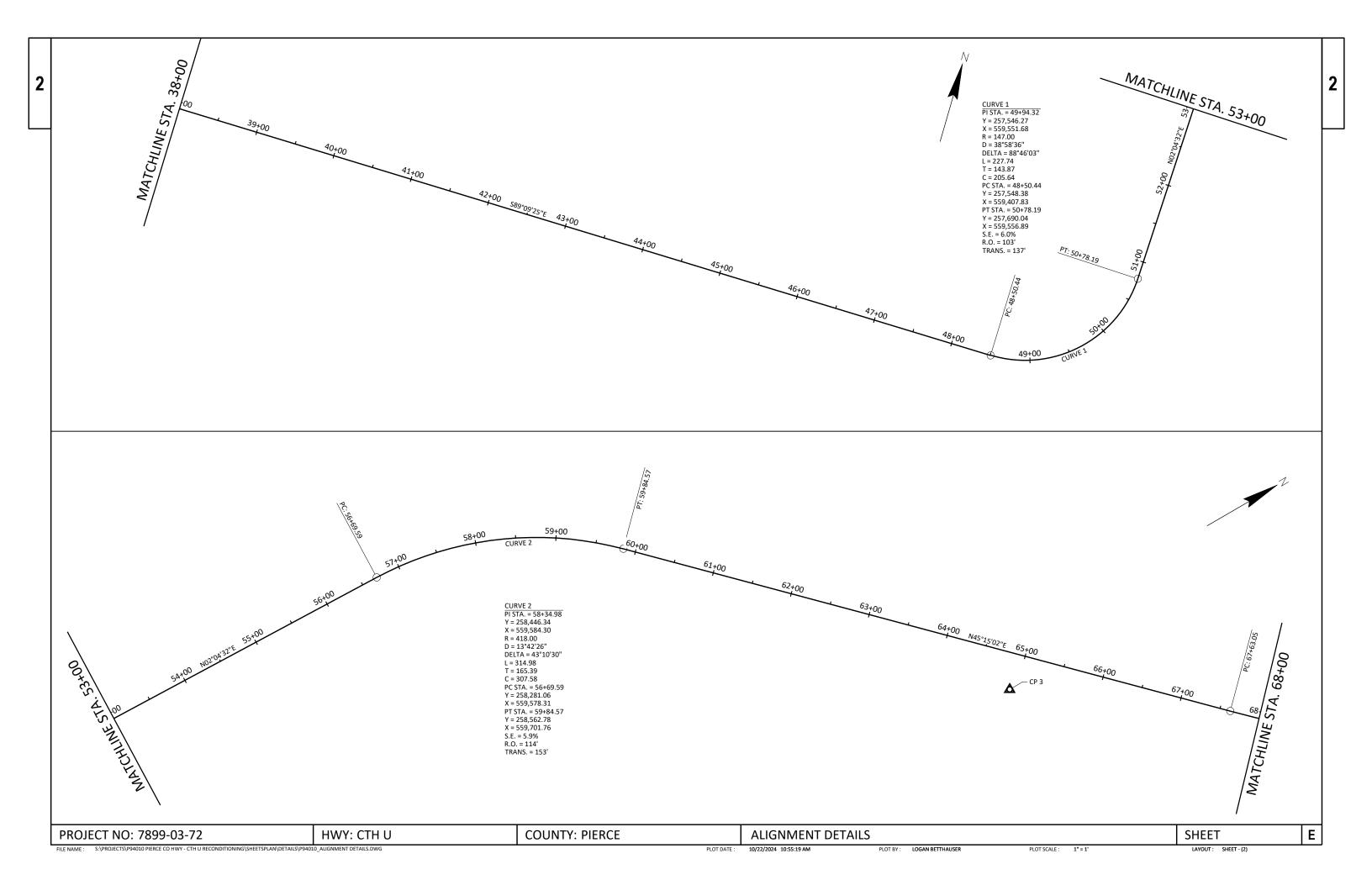
PLOT BY: DANIEL GERLING

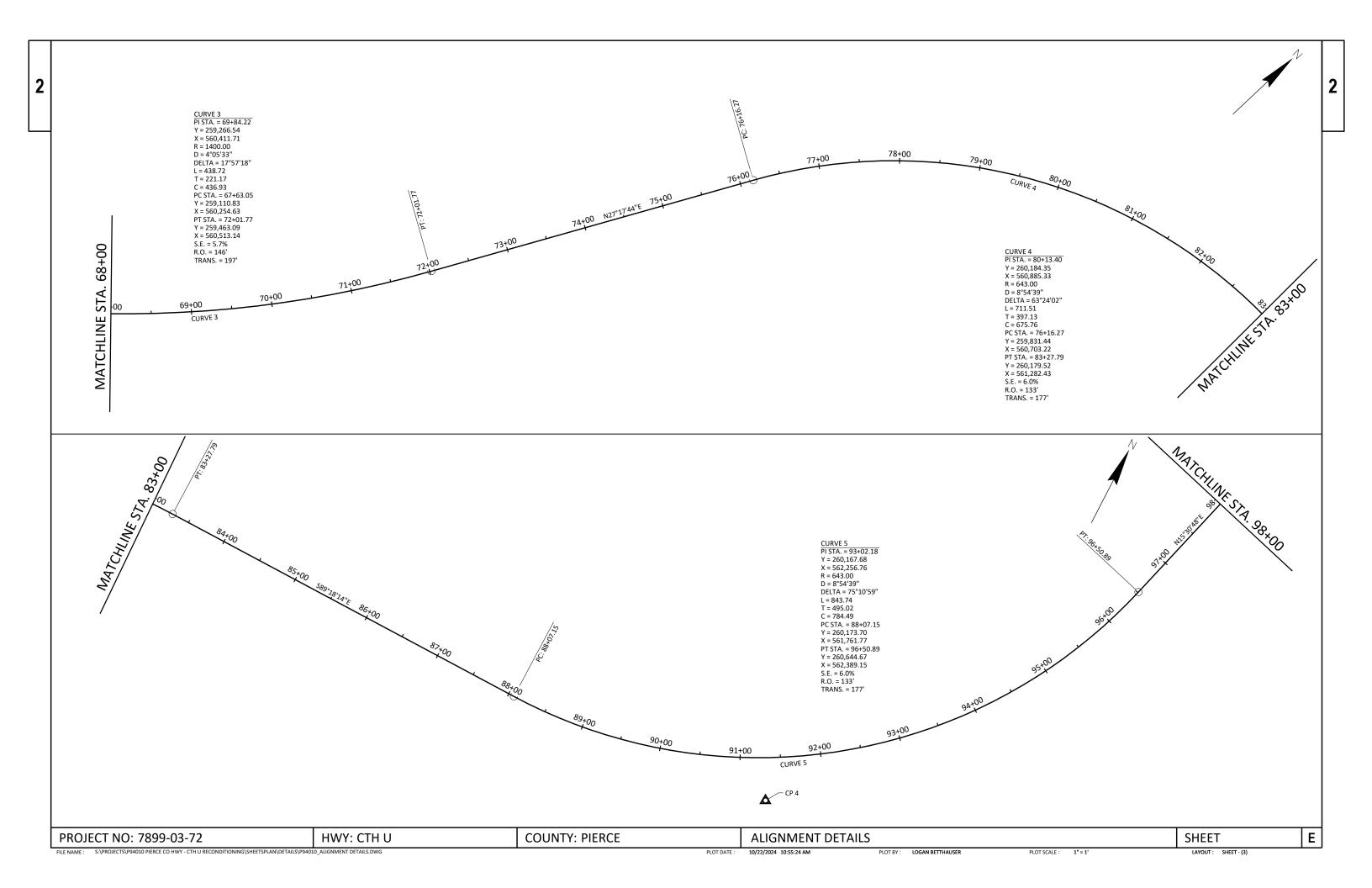


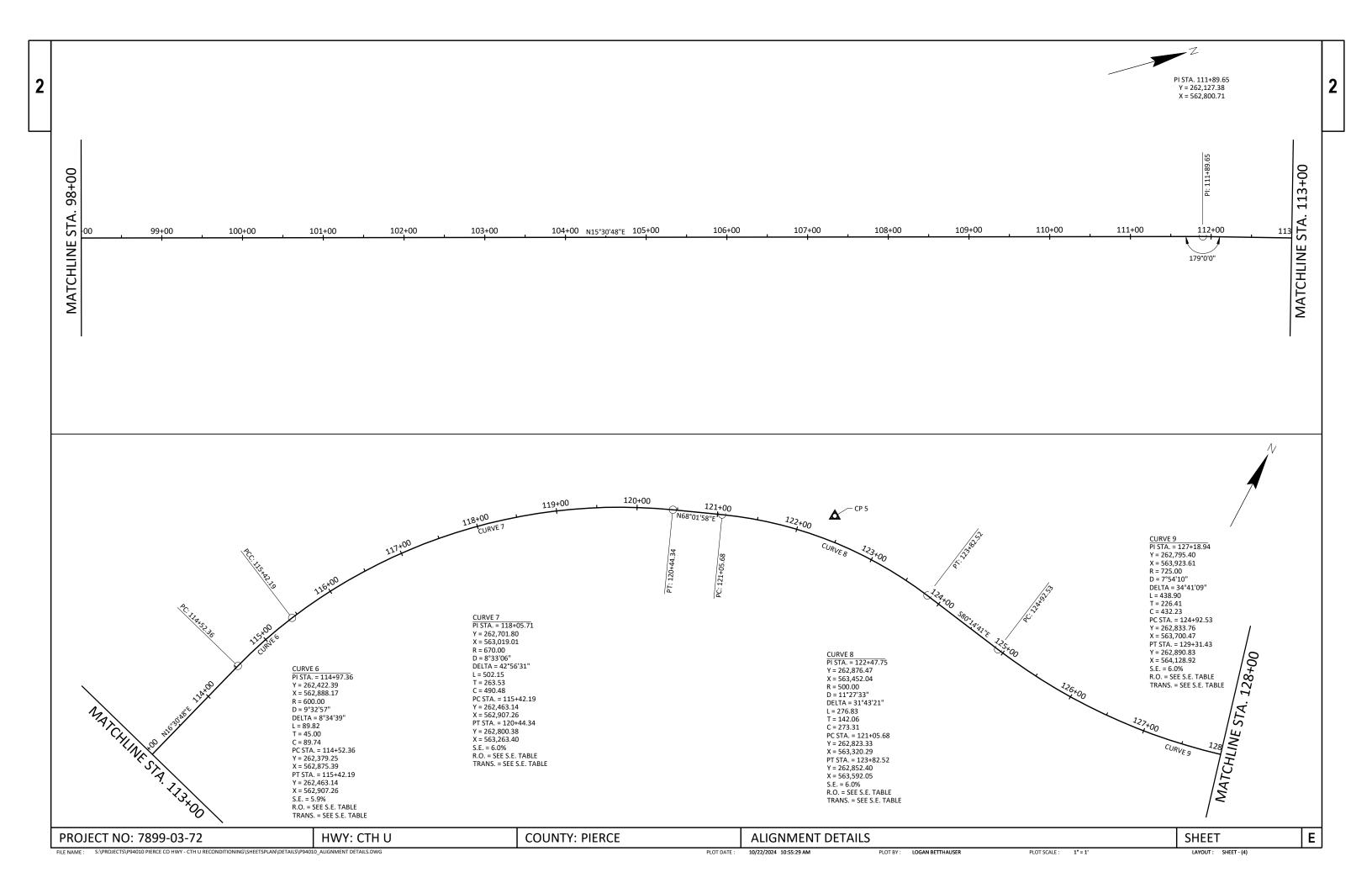


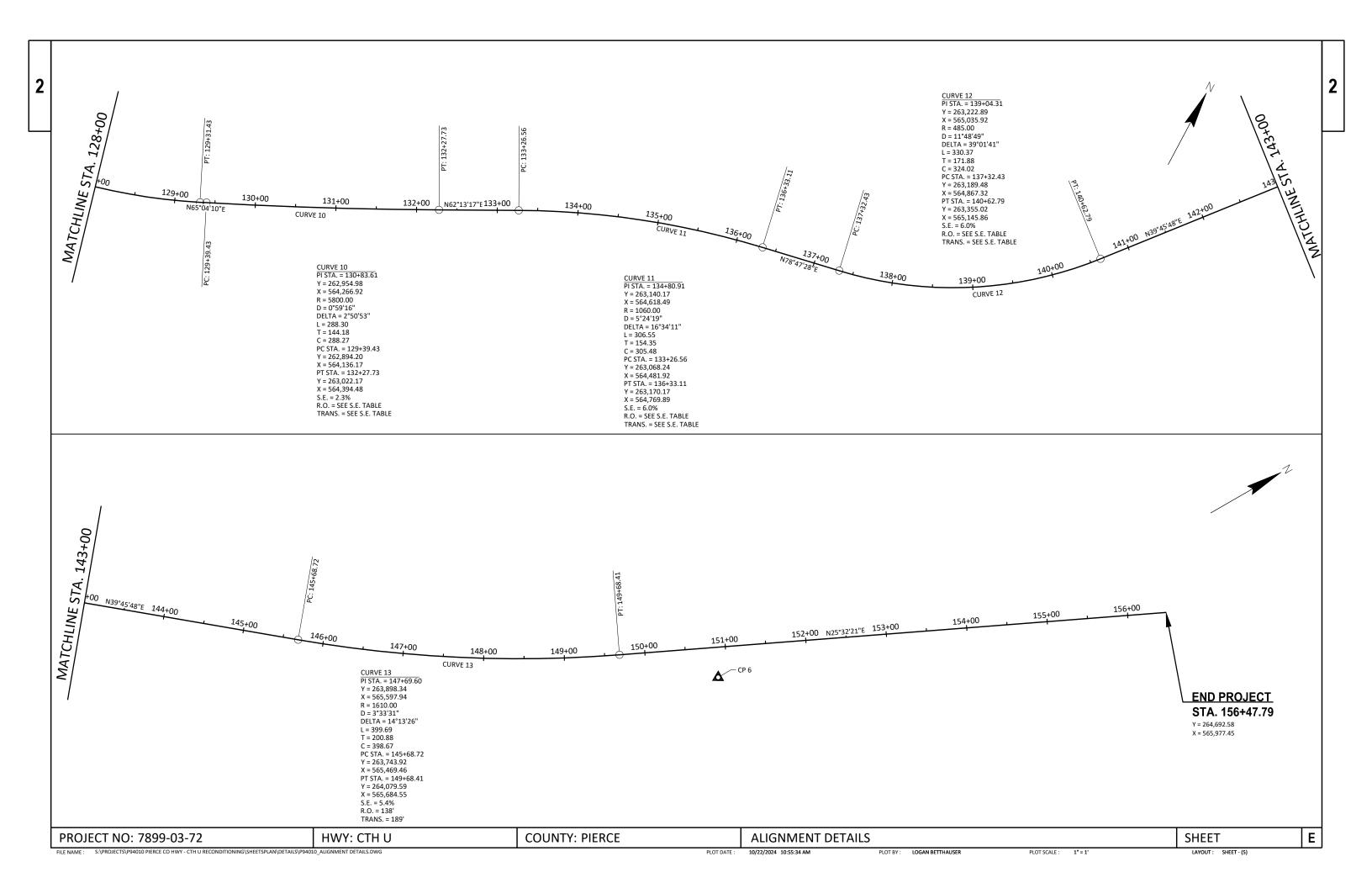












3 |

		3-7	

					7899-03-72	
Line	Item	Item Description	Unit	Total	Qty	
0002	204.0115	Removing Asphaltic Surface Butt Joints	SY	1,423.000	1,423.000	
0004	205.9011.S	Grading and Shaping Intersection (location) 01. 133rd Street	EACH	1.000	1.000	
0006	205.9011.S	Grading and Shaping Intersection (location) 02. 120th Street	EACH	1.000	1.000	
8000	205.9011.S	Grading and Shaping Intersection (location) 03. 90th Street	EACH	1.000	1.000	
0010	211.0101	Prepare Foundation for Asphaltic Paving (project) 01. 7899-03-72	EACH	1.000	1.000	
0012	211.0400	Prepare Foundation for Asphaltic Shoulders	STA	30.000	30.000	
0014	213.0100	Finishing Roadway (project) 01. 7899-03-72	EACH	1.000	1.000	
0016	305.0110	Base Aggregate Dense 3/4-Inch	TON	2,625.000	2,625.000	
0018	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	2,415.000	2,415.000	
0020	325.0100	Pulverize and Relay	SY	44,380.000	44,380.000	
0022	374.1020.S	QMP Pulverize and Relay Compaction	SY	43,800.000	43,800.000	
0024	455.0605	Tack Coat	GAL	2,265.000	2,265.000	
0026	460.2000	Incentive Density HMA Pavement	DOL	6,880.000	6,880.000	
0028	460.5223	HMA Pavement 3 LT 58-28 S	TON	6,075.000	6,075.000	
0030	460.5244	HMA Pavement 4 LT 58-34 S	TON	4,675.000	4,675.000	
0032	614.0925	Salvaged Guardrail End Treatments	EACH	12.000	12.000	
0034	618.0100	Maintenance and Repair of Haul Roads (project) 01. 7899-03-72	EACH	1.000	1.000	
0036	619.1000	Mobilization	EACH	1.000	1.000	
0038	624.0100	Water	MGAL	230.000	230.000	
0040	642.5001	Field Office Type B	EACH	1.000	1.000	
0042	643.0300	Traffic Control Drums	DAY	7,400.000	7,400.000	
0044	643.0420	Traffic Control Barricades Type III	DAY	1,480.000	1,480.000	
0046	643.0705	Traffic Control Warning Lights Type A	DAY	2,960.000	2,960.000	
0048	643.0900	Traffic Control Signs	DAY	3,614.000	3,614.000	
0050	643.1000	Traffic Control Signs Fixed Message	SF	36.000	36.000	
0052	643.3105	Temporary Marking Line Paint 4-Inch	LF	1,175.000	1,175.000	
0054	643.5000	Traffic Control	EACH	1.000	1.000	
0056	646.1020	Marking Line Epoxy 4-Inch	LF	57,901.000	57,901.000	
0058	646.6120	Marking Stop Line Epoxy 18-Inch	LF	56.000	56.000	
0060	648.0100	Locating No-Passing Zones	MI	2.780	2.780	
0062	650.8000	Construction Staking Resurfacing Reference	LF	14,640.000	14,640.000	
0064	650.9911	Construction Staking Supplemental Control (project) 01. 7899-03-72	EACH	1.000	1.000	
0066	690.0150	Sawing Asphalt	LF	127.000	127.000	
0068	740.0440	Incentive IRI Ride	DOL	11,040.000	11,040.000	
0070	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	300.000	300.000	
0072		On-the-Job Training Graduate at \$5.00/HR	HRS	300.000	300.000	
0074	SPV.0060	Special 01. Reestablishing Section Corner Monuments	EACH	2.000	2.000	
0076	SPV.0060	Special 02. Installing Salvaged Guardrail End Treatments	EACH	12.000	12.000	
0078	SPV.0090	Special 01. Remove, Salvage, and Reinstall Guardrail	LF	2,169.000	2,169.000	
30.0		-r	_	_,	_,	

204.0115 STATION - STATION LOCATION (SY) 10+09 - 10+59 MAINLINE 321 91+55 110TH AVE 120 141+60 CTH UU 289 142+03.68 - 142+53.68 MAINLINE 186 143+20.34 - 143+81.84 MAINLINE 229 146+30 76TH ST 108 155+97.79 - 156+47.79 MAINLINE 170 TOTAL = 1,423

REMOVING ASPHALTIC SURFACE

BUTT JOINTS

GRADING AND SHAPING INTERSECTION

LOCATION	205.9011.S.01 (EACH)	205.9011.S.02 (EACH)	205.9011.S.03 (EACH)	EXCAVATION COMMON* (CY)
133RD STREET	1	-	-	15
120TH STREET	-	1	-	30
90TH STREET	-	-	1	25
TOTALS =	1	1	1	

*QUANTITIES SHOWN ARE FOR INFORMATION ONLY AND ARE INCIDENTAL TO THE 205.9011 **BID ITEMS**

PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS

STATION - STATION	LOCATION	211.0400
		(STA)
96+63 - 101+75	MAINLINE, RT.	6
101+75 - 104+77	MAINLINE	3
104+77 - 108+86	MAINLINE, LT.	4
114+06 - 122+23	MAINLINE, LT.	9
141+03 - 141+73	MAINLINE, LT.	1
141+73 - 144+66	MAINLINE	3
154+79 - 155+32	MAINLINE, RT.	2
155+32 - 156+38	MAINLINE	1
156+38 - 156+56	MAINLINE, LT.	1

TOTAL = 30

BASE AGGREGATE DENSE

		305.0110 BASE AGGREGATE	305.0120 BASE AGGREGATE	624.0100
		DENSE 3/4-INCH	DENSE 1 1/4-INCH	WATER*
STATION - STATION	LOCATION	(TON)	(TON)	(MGAL)
10+09 - 156+47.79	SHOULDERS	2,390	-	36
131+00 - 156+47.79	MAINLINE	-	2,280	34
33+50, LT.	133RD STREET	-	30	1
49+70, RT.	120TH STREET	-	55	1
122+80, LT.	90TH STREET	-	50	1
-	P.E. / F.E.	235	-	2
	_			
	TOTALS =	2,625	2,415	75

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

PULVERIZE AND RELAY

		325.0100 PULVERIZE	374.1020.S QMP PULVERIZE AND	624.0100
		AND RELAY	RELAY COMPACTION	WATER*
STATION - STATION	LOCATION	(SY)	(SY)	(MGAL)
10+59 - 142+03.68	MAINLINE	40,150	40,150	135
143+81.84 - 155+97.79	MAINLINE	3,650	3,650	15
91+55	110TH AVE	115	-	1
141+60	CTH UU	310	-	3
146+30	76TH ST	155	-	1
	TOTALS =	44,380	43,800	155

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

HMA PAVEMENT

		211.0101 PREPARE FOUNDATION	455.0605	460.5223	460.5244
		FOR ASPHALTIC PAVING			HMA PAVEMENT
		(01. 7899-03-72)	TACK COAT	3 LT 58-28 S	4 LT 58-34 S
STATION - STATION	LOCATION	(EACH)	(GAL)	(TON)	(TON)
10+09 - 142+53.68	MAINLINE	-	2,000	5,405	4,155
143+20.34 - 156+47.79	MAINLINE	-	200	545	420
33+50, LT.	133RD STREET	-	5	10	10
49+70, RT.	120TH STREET	-	10	20	15
91+55, RT.	110TH AVENUE	-	10	15	15
122+80, LT.	90TH STREET	-	10	20	15
141+60, RT.	CTH UU	-	20	40	30
146+30, LT.	76TH STREET	-	10	20	15
PROJEC	Т	1	-	-	-
	TOTALS =	1	2,265	6,075	4,675

Ε PROJECT NO: 7899-03-72 HWY: CTH U COUNTY: PIERCE MISCELLANEOUS QUANTITIES SHEET:

MGS GUARDRAIL

		614.0925 SALVAGED GUARDRAIL END	SPV.0060.02 INSTALLING SALVAGED GUARDRAIL END	SPV.0090.01 REMOVE, SALVAGE, AND REINSTALL	
		TREATMENTS	TREATMENTS	GUARDRAIL	
STATION - STATION	LOCATION	(EACH)	(EACH)	(LF)	COMMENTS
96+93 - 97+46	MAINLINE, RT.	1	1	-	
97+46 - 103+99	MAINLINE, RT.	-	-	653	MGS GUARDRAIL 3K
102+12 - 102+66	MAINLINE, LT.	1	1	-	
102+65 - 107+99	MAINLINE, LT.	-	-	533	MGS GUARDRAIL 3K
103+99 - 104+52	MAINLINE, RT.	1	1	-	
107+99 - 108+52	MAINLINE, LT.	1	1	-	
114+31 - 114+84	MAINLINE, LT.	1	1	-	
114+84 - 121+70	MAINLINE, LT.	-	-	686	MGS GUARDRAIL 3K
121+70 - 122+23	MAINLINE, LT.	1	1	-	
141+51 - 142+04	MAINLINE, LT.	1	1	-	
141+61 - 141+73	MAINLINE, RT./ CTH UU	1	1	-	
142+04 - 142+53	MAINLINE, LT.	-	-	49	MGS THRIE BEAM TRANSITION
141+73 - 142+54	MAINLINE, RT.	-	-	81	STEEL PLATE BEAM GUARD CLASS A
143+20 - 143+52	MAINLINE, LT.	-	-	32	MGS THRIE BEAM TRANSITION
143+20 - 143+53	MAINLINE, RT.	-	-	33	MGS THRIE BEAM TRANSITION
143+52 - 144+06	MAINLINE, LT.	1	1	-	
143+53 - 144+06	MAINLINE, RT.	1	1	-	
155+16 - 155+69	MAINLINE, RT.	1	1	-	
155+69 - 156+38	MAINLINE, RT.	-	-	69	MGS GUARDRAIL 3/MGS THRIE BEAM TRANSITION
155+71 - 156+24	MAINLINE, LT.	1	1	-	
156+24 - 156+56	MAINLINE, LT.	-	-	32	MGS THRIE BEAM TRANSITION
	TOTALS =	12	12	2,169	

TRAFFIC CONTROL

	CALENDAR DAY	643.0 TRAFFIC (TRAFFIC	.0420 CONTROL DES TYPE III	643. TRAFFIC WARNING LIG	CONTROL		0900 FFIC	643.1000 TRAFFIC CONTROL SIGNS FIXED MESSAGE	643.5000 TRAFFIC CONTROL	
LOCATION	DURATION	(COUNT)	(DAY)	(COUNT)		(COUNT)	(DAY)	(COUNT)	(DAY)	(SF)	(EACH)	COMMENTS
CTHU	74	-	-	8	592	16	1,184	10	740	-	-	DETAIL A, H, & I
CTH U (PULVERIZE & RELAY/PAVING OPERATIONS)	32	-	-	-	-	-	-	32	1,024	-	-	(14 EA) W8-12; (6 EA) R4-1; W8-11; W8-9A
CTHCC	74	-	-	-	-	-	-	10	740	-	-	DETAIL A
133RD STREET	74	-	-	2	148	4	296	2	148	-	-	DETAIL B
120TH STREET	74	-	-	2	148	4	296	2	148	-	-	DETAIL C
110TH AVENUE	74	-	-	2	148	4	296	2	148	-	-	DETAIL D
90TH STREET	74	-	-	2	148	4	296	3	222	-	-	DETAIL E
CTH UU	74	-	-	2	148	4	296	3	222	-	-	DETAIL F
76TH STREET	74	-	-	2	148	4	296	2	148	-	-	DETAIL G
145TH AVENUE	74	-	-	-	-	-	-	1	74	-	-	DETAIL H
PROJECT	74	100	7,400	-	-	-	-	-	-	36	1	
TOTALS =			7,400		1,480		2,960		3,614	36	1	

PROJECT NO: 7899-03-72 HWY: CTH U COUNTY: PIERCE MISCELLANEOUS QUANTITIES SHEET: **E**

			643.3105		646.1020		646.6120
			TEMPORARY	MARKING	LINE EPO	(Y 4-INCH	MARKING STOP
			MARKING LINE	YELLOW	WHITE	YELLOW	LINE EPOXY
			PAINT 4-INCH	SOLID	SOLID	DASHED	18-INCH
STATION - STATION	LOCATION	DESCRIPTION	(LF)	(LF)	(LF)	(LF)	(LF)
10+09	MAINLINE	STOP LINE	-	-	-	-	28
10+09 - 156+47.79	MAINLINE	CENTERLINE	1,175	-	-	-	-
10+09 - 147+75	MAINLINE	DOUBLE YELLOW	-	27,532	-	-	-
10+09 - 147+75	MAINLINE	EDGE LINE LT. & RT.	-	-	27,532	-	-
141+50 - 141+78	CTH UU	STOP LINE	-	-	-	-	28
147+75 - 156+47.79	MAINLINE	DASHED YELLOW NB, SOLID YELLOW SB	-	873	-	218	=
147+75 - 156+38.70	MAINLINE	EDGE LINE RT.	-	-	864	-	-
147+75 - 156+56.5	MAINLINE	EDGE LINE LT.	-	-	882	-	-
		_					
		SUBTOTALS =	1,175	28,405	29,278	218	56
		TOTALS =	1,175		57,901		56

CONSTRUCTION STAKING

650.8000 650.9911 CONSTRUCTION CONSTRUCTION STAKING STAKING SUPPLEMENTAL RESURFACING CONTROL REFERENCE (01.7899-03-72) STATION - STATION LOCATION (LF) (EACH) 10+09 - 156+47.79 MAINLINE 14,640 TOTALS = 14,640

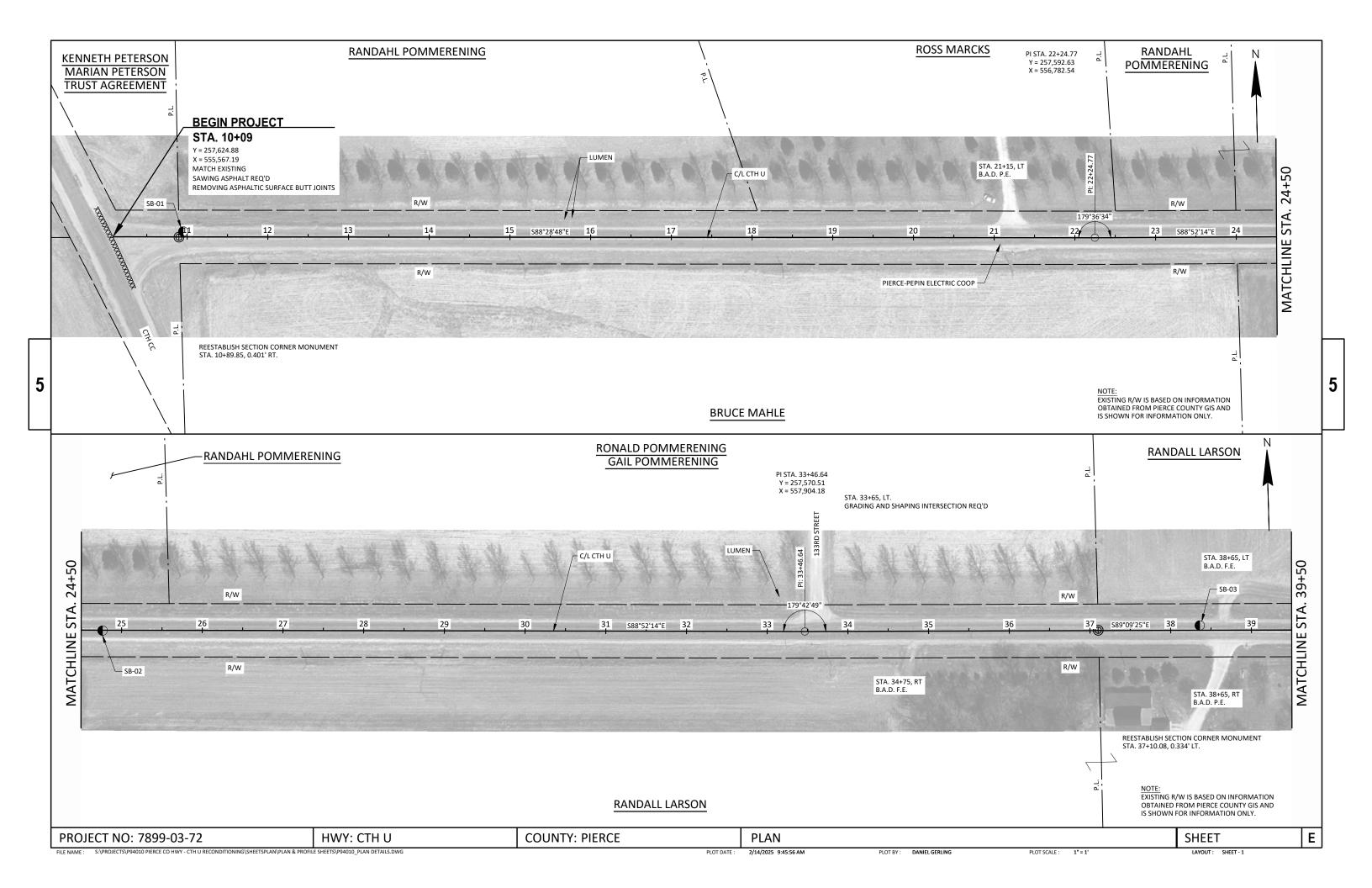
SAWING ASPHALT

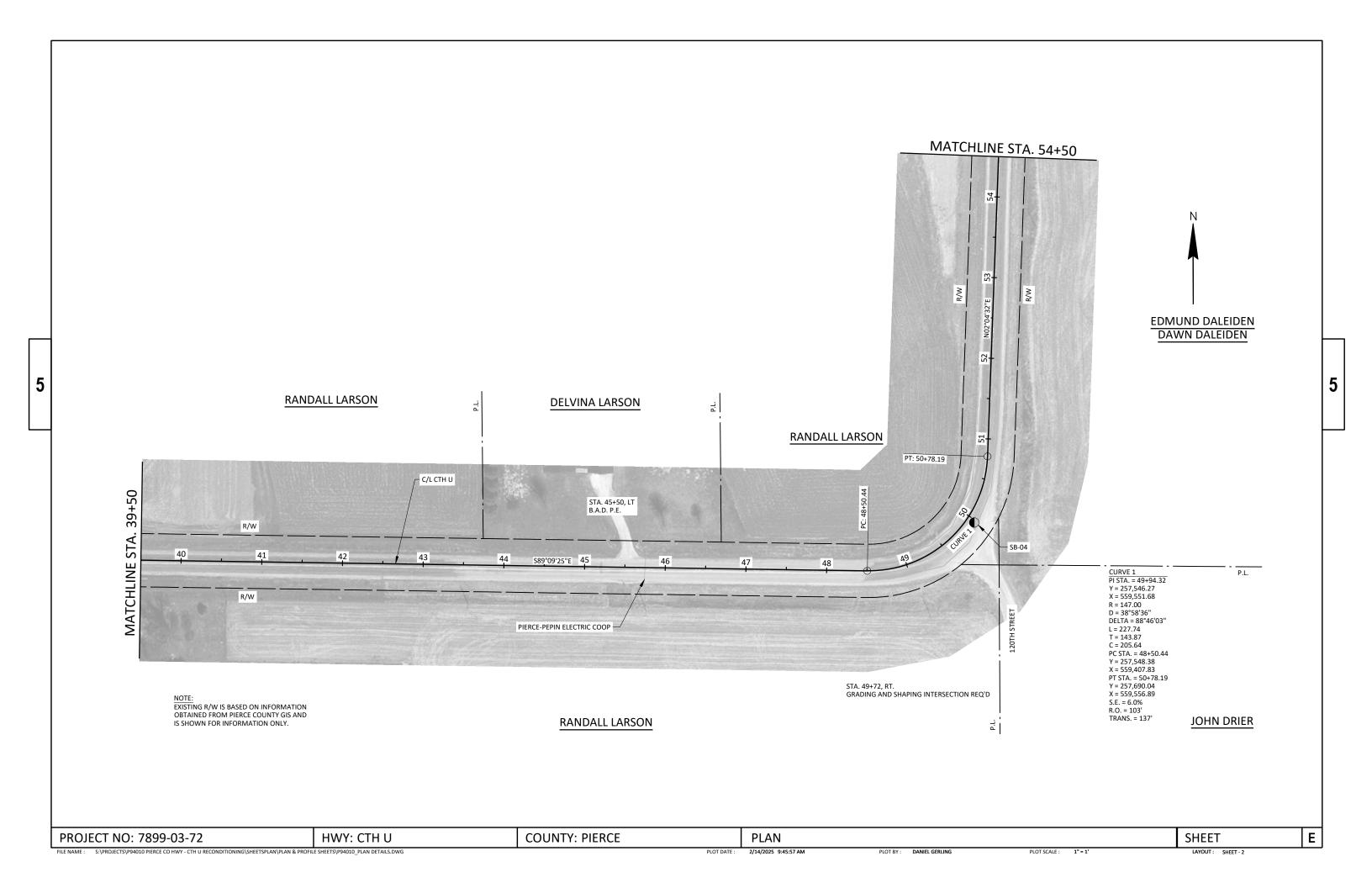
		690.0150
STATION - STATION	LOCATION	(LF)
10+09	MAINLINE	35
91+70	110TH AVE	28
141+50	CTH UU	40
146+25	76TH ST	24
	TOTAL =	127

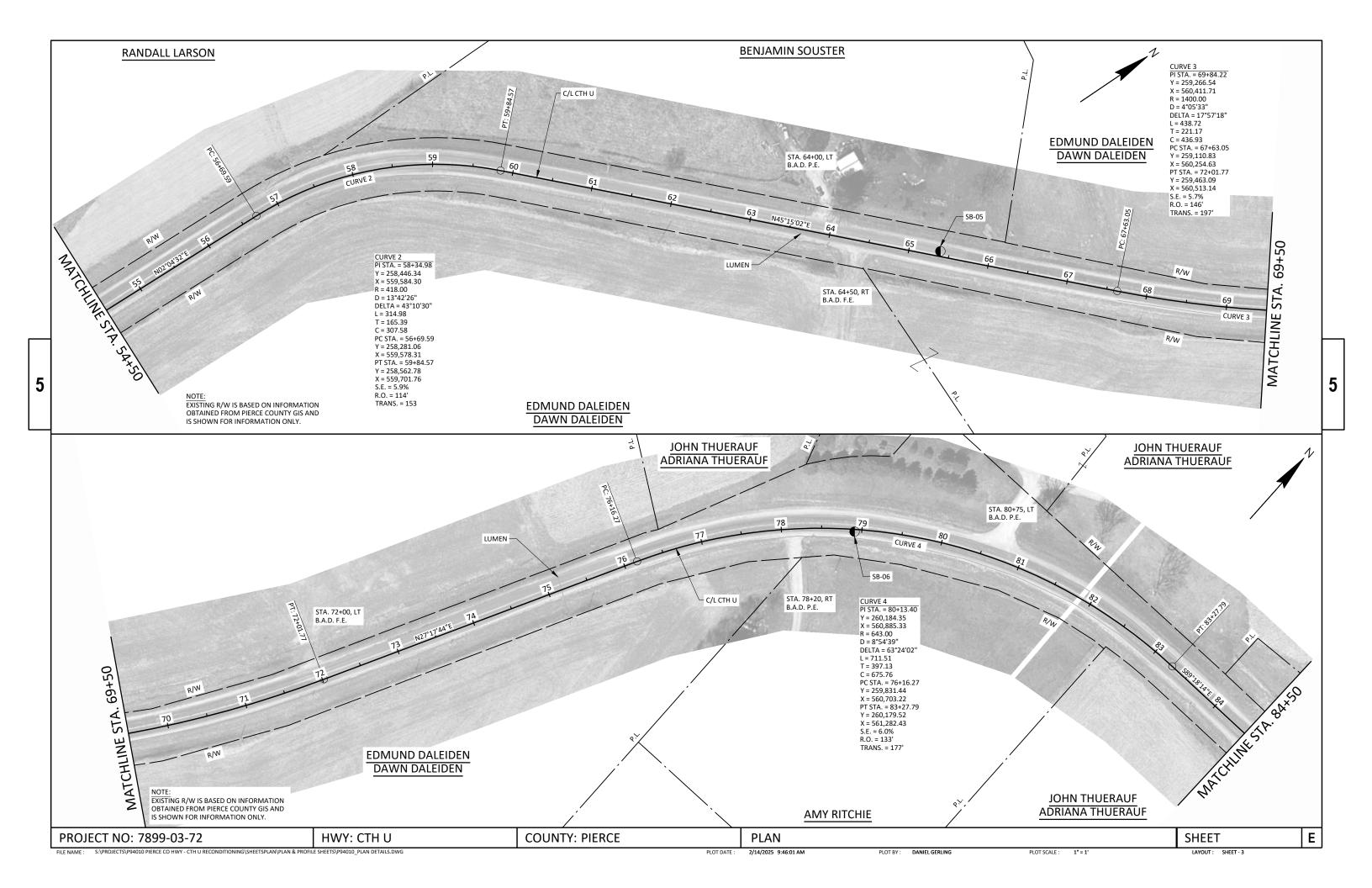
REESTABLISH SECTION CORNER MONUMENT

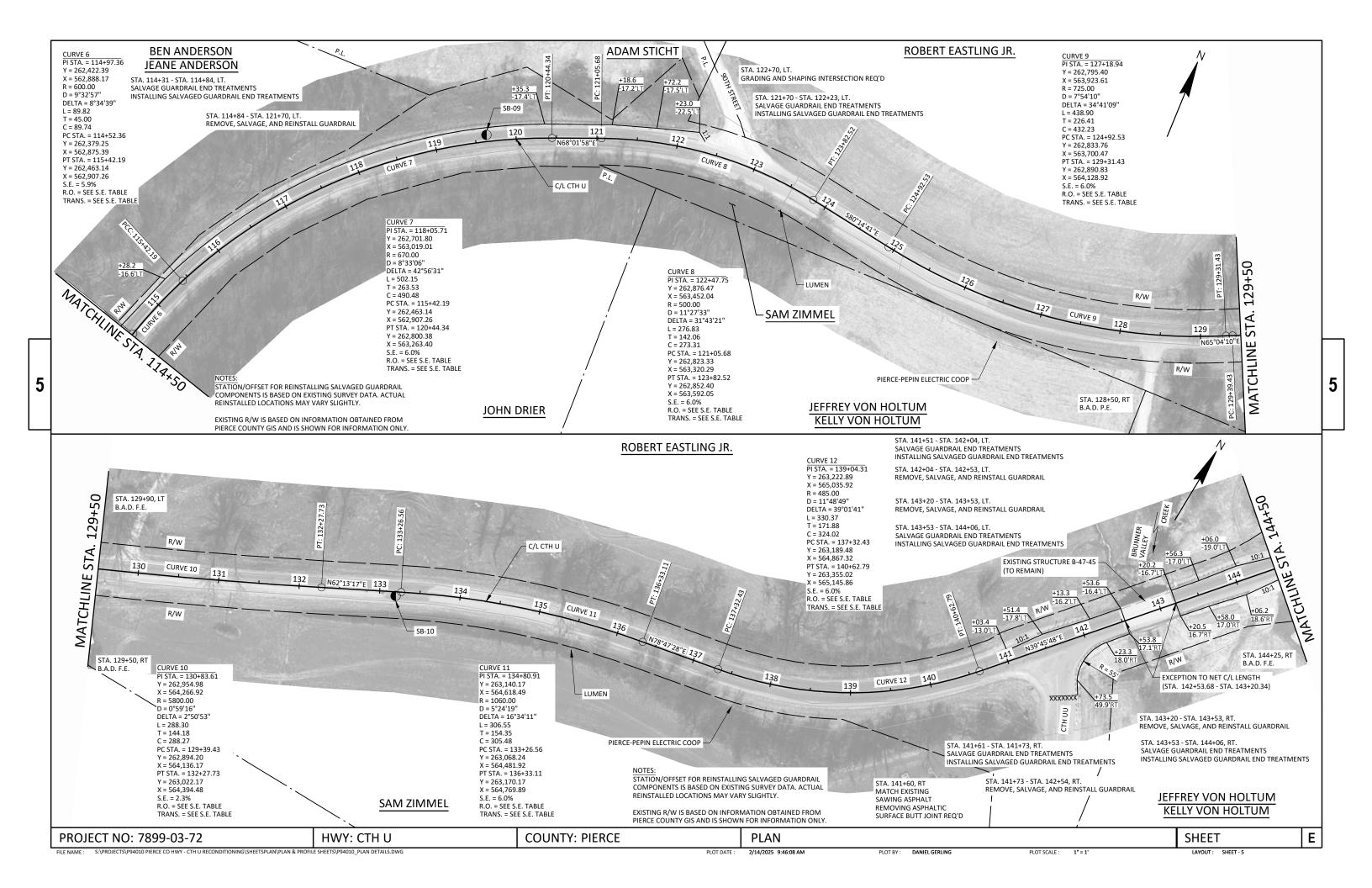
STATION	LOCATION	SPV.0060.01 (EACH)
10+89.85	0.401', RT	1
37+10.08	0.334', LT	1
	TOTAL =	2

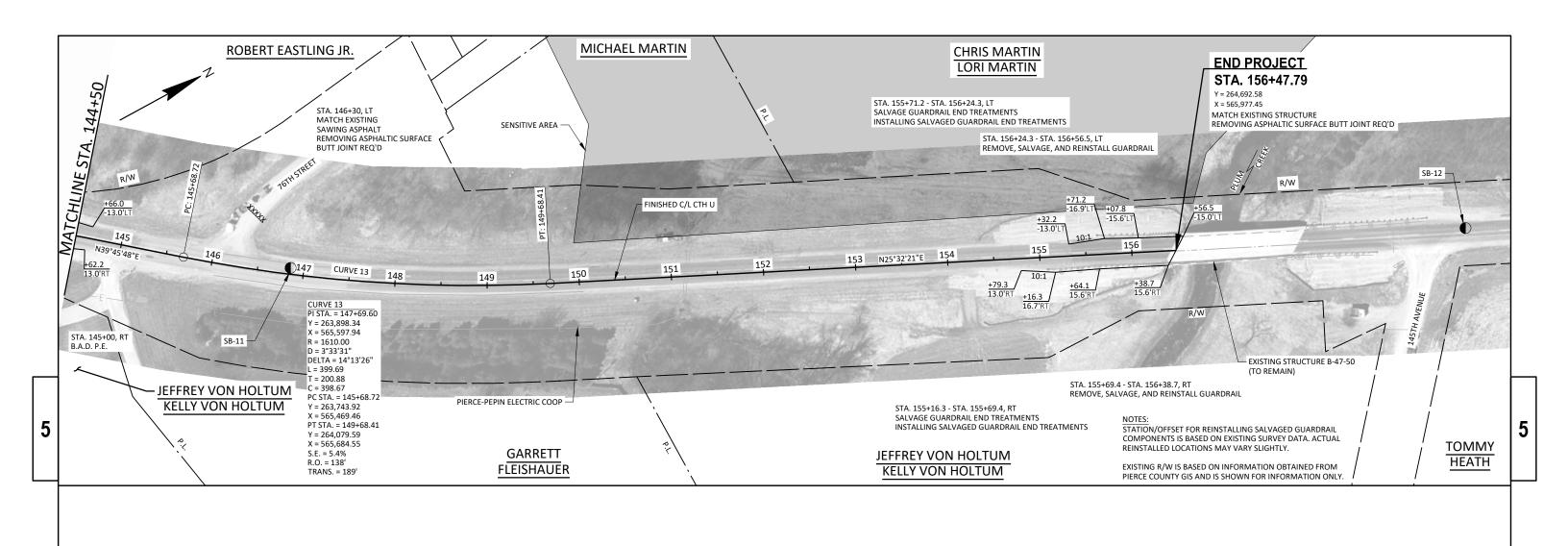
PROJECT NO: 7899-03-72 HWY: CTH U COUNTY: PIERCE MISCELLANEOUS QUANTITIES SHEET: **E**







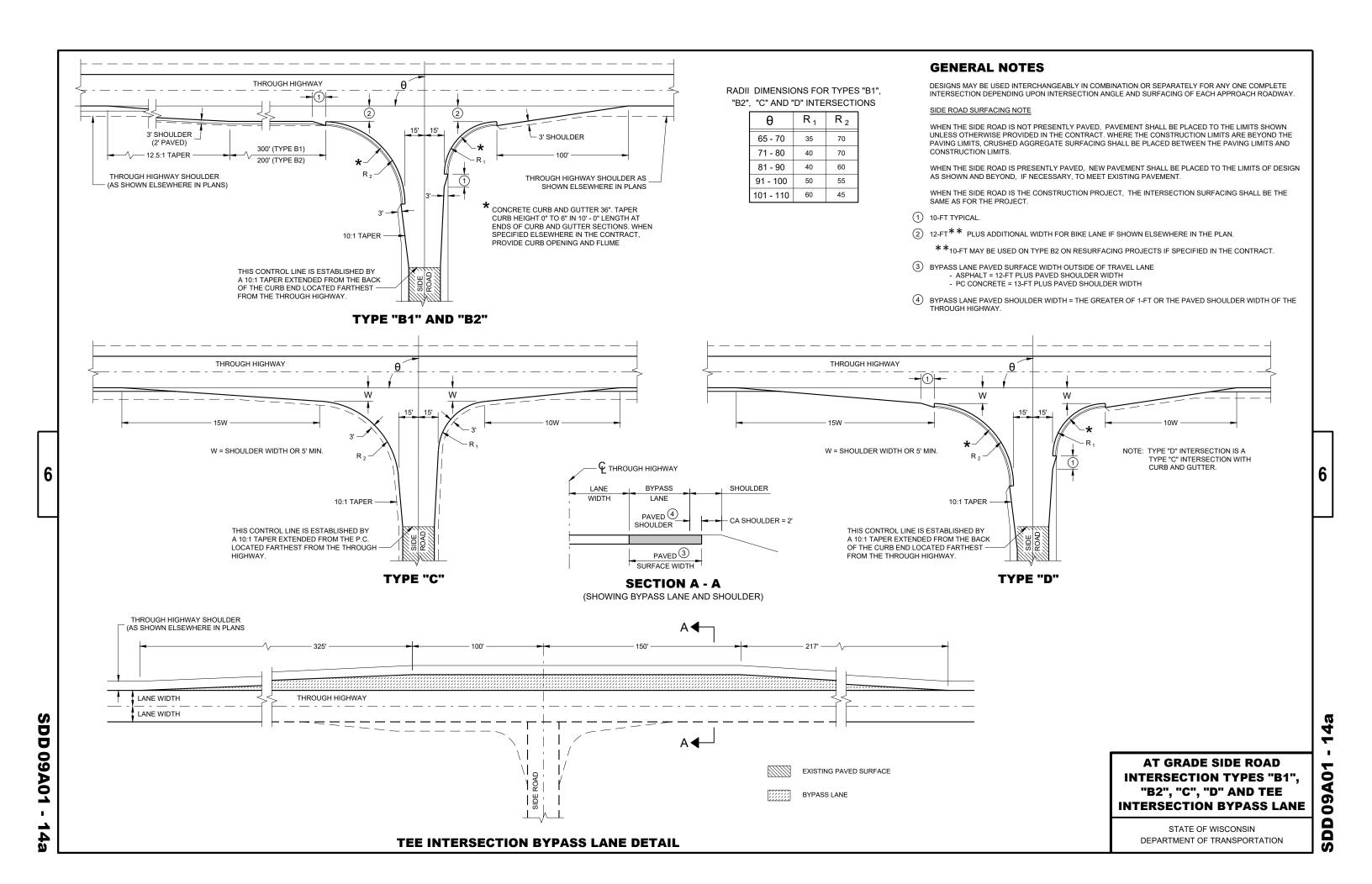


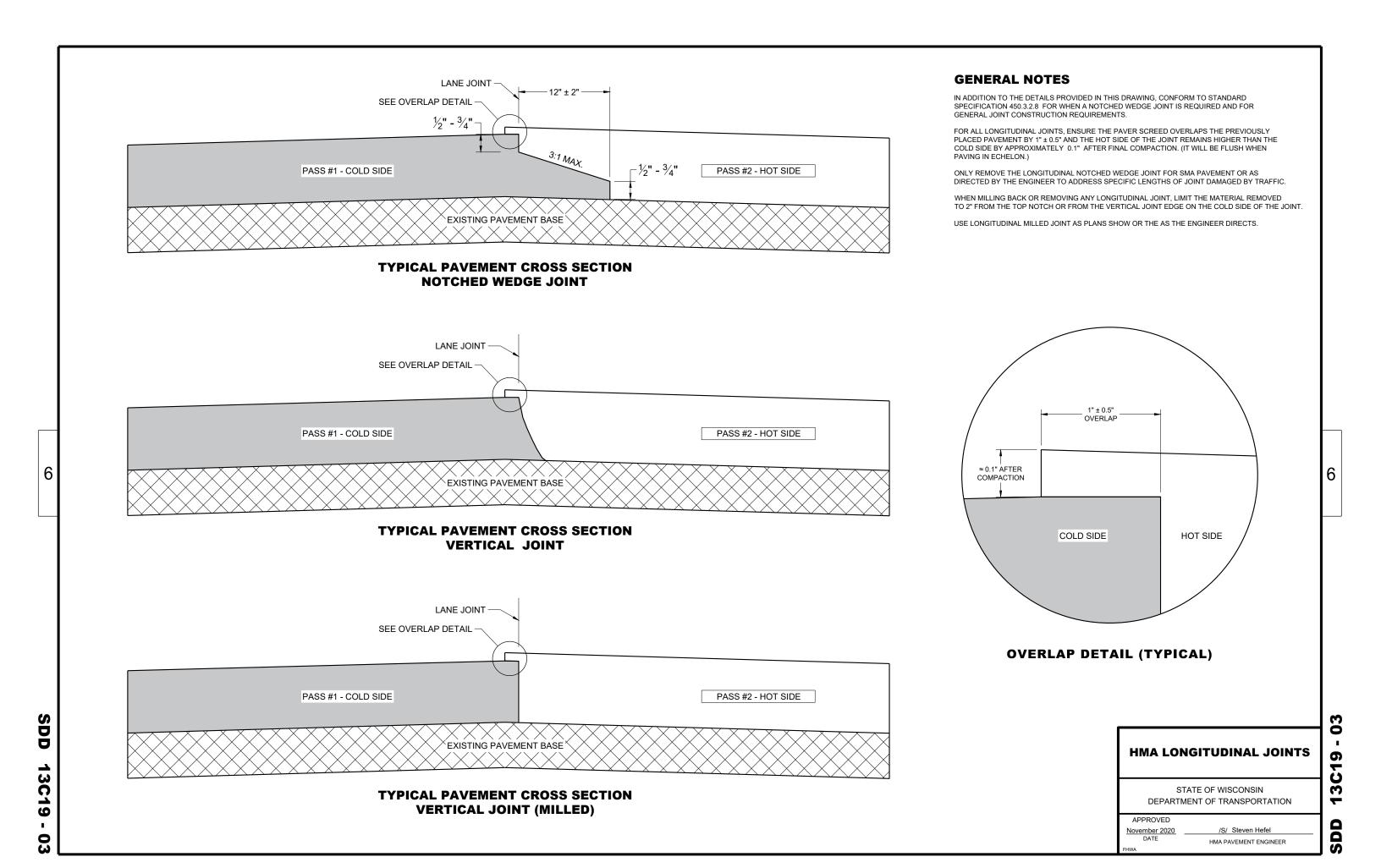


THIS FRAME LEFT INTENTIONALLY BLANK

Standard Detail Drawing List

09A01-14A	AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND D AND TEE INTERSECTION BYPASS LANE
13C19-03	HMA LONGITUDINAL JOINTS
14B15-11A	STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION & ELEMENTS
14B15-11B	STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION & ELEMENTS
14B15-11C	STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS
14B20-12A	STEEL THRIE BEAM STRUCTURE APPROACH
14B20-12B	STEEL THRIE BEAM STRUCTURE APPROACH, CONNECTION TO SQUARE END PARAPETS
14B24-09A	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
14в24-09в	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
14B24-09C	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
14B29-01	SAFETY EDGE
14B42-07A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07D	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-04A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B45-05A	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05B	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05C	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05D	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
15C02-09A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15С02-09В	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C03-05	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C08-23A	PERMANENT LONGITUDINAL PAVEMENT MARKINGS
15C08-23B	TEMPORARY LONGITUDINAL PAVEMENT MARKING
15C11-10B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-09A	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C19-09A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C33-05	STOP LINE AND CROSSWALK PAVEMENT MARKING
15C35-06A	PAVEMENT MARKING (INTERSECTIONS)
15D39-02	TRAFFIC CONTROL, DROP-OFF SIGNING
15D45-03	TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH LOOSE GRAVEL



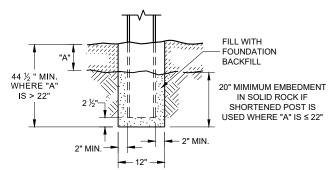


GENERAL NOTES

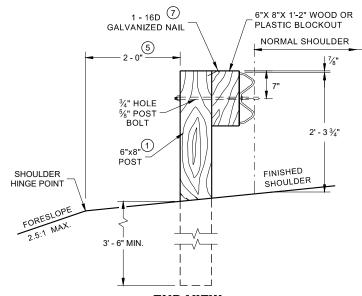
- WOOD OR STEEL POSTS (w6X9 OR w6X8.5) AND NOTCHED PLASTIC BLOCKOUTS ARE ACCEPTABLE ALTERNATIVES FOR 6"X8" WOOD POSTS WITH WOOD OR PLASTIC BLOCKOUTS USE APPROVED NOTCHED PLASTIC BLOCKOUTS WITH STEEL POSTS. APPROVED PLASTIC BLOCKOUT DESIGNS MAY VARY FROM THIS TYPICAL DETAIL WHEN USED IN CONJUNCTION WITH STEEL POSTS. DO NOT MIX STEEL AND WOOD POSTS IN A SINGLE INSTALLATION.
- (2) USE STRUCTURAL STEEL POSTS CONFORMING TO ASTM A 36. GALVANIZED POSTS ACCORDING TO AASHTO M 111. EITHER SET THE POSTS IN DRILLED HOLES OR DRIVE TO GRADE. REMOVE MUSHROOMING CAUSED BY DRIVING AND REPAIR DAMAGE SPELTER COATING ON GALVANIZED
- (3) INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE
- (4) USE EITHER WOOD OR APPROVED PLASTIC BLOCKOUTS ON WOOD POSTS.
- (5) IF THE DISTACE FROM BACK OF POST TO SHOULDER HIGHE POINT IS LESS THAN 2 FEET, INSTALL LONGER POST AT HALF POST SPACING, W BEAM (LHW).
- (6) IF ROCK IS ENCOUNTERED DURING EXCAVATION, THE ENGINEER MAY APPROVE USING A 12 INCHES IN DIAMETER POST HOLE EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2 1/2" INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT ADEQUATELY.
- (7) WHEN USING STEEL POSTS AND WOOD BLOCKOUTS, INSTALL FOUR 16d GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE

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

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



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

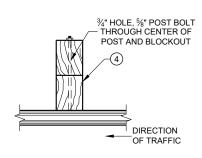


SDD

14B

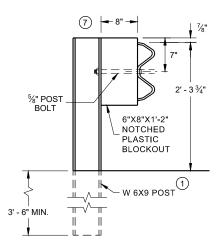
15

END VIEW LOCATED ALONG A ROADWAY SHOULDER STANDARD INSTALLATION

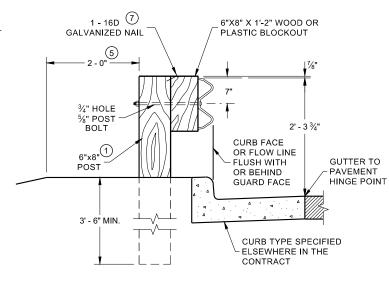


PLAN VIEW

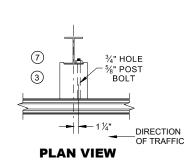
WOOD POST, BLOCKOUT AND BEAM



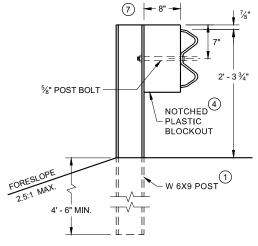
END VIEW STEEL POST AND NOTCHED PLASTIC BLOCKOUT ALTERNATIVE STANDARD INSTALLATION



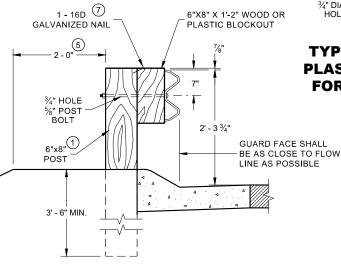
END VIEW LOCATED ALONG A CURBED ROADWAY



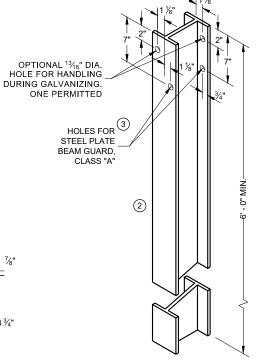
WOOD POST, BLOCKOUT AND BEAM



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

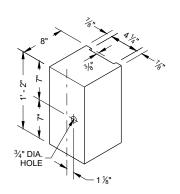


LOCATED ALONG A MOUNTABLE CURBED ROADWAY

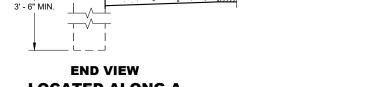


STEEL POST & HOLE **PUNCHING DETAIL** (W 6 X 9) (1)

ALL HOLES 13/16" DIAMETER EXCEPT AS NOTED

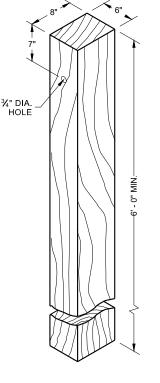


TYPICAL NOTCHED PLASTIC BLOCKOUT **FOR STEEL POSTS**

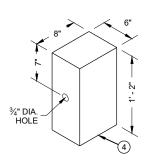




STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION



WOOD POST (6" X 8") NOMINAL



WOOD OR PLASTIC BLOCKOUT FOR WOOD POSTS

6

4B POST SPACING STANDARD INSTALLATION

12'-6" OR 25'-0"

FRONT VIEW

SECTION THRU W

SYMMETRICAL

BEAM

ABOUT & -12 GAGE

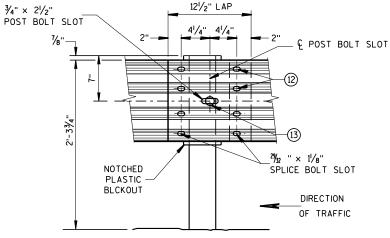
121/2" LAP WOOD OR PLASTIC BLOCKOUT FINISHED SHOULDER DIRECTION OF TRAFFIC FRONT VIEW

BEAM SPLICE AT WOOD POST AND POST MOUNTING DETAIL

GENERAL NOTES

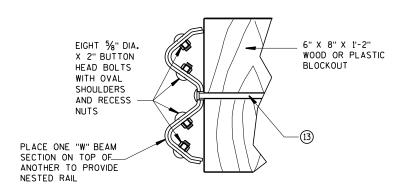
FURNISH GUARDRAIL DEFLECTORS FROM APPROVED PRODUCTS LIST.

- (9) DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINA, START REFLECTORS AT POST *9 AND SPACE EVENLY EVERY 100 FEET (MAX.) TO THE END OF GUARDRAIL RUN, USING A MINIMUM OF 3 REFLECTORS.
- (12) 8 1/8" \$ X 2" BUTTON HEAD BOLTS WITH OVAL SHOULDERS & RECESS NUTS.
- (13) 5%" DIA. BUTTON HEAD BOLT AND RECESS NUT WITH 5%" DIA. F844 FLAT WASHER UNDER NUT.



FRONT VIEW BEAM SPLICE AT STEEL POST

TYPICAL SPLICING DETAILS OF STEEL PLATE BEAM GUARD



NESTED W BEAM (NW)

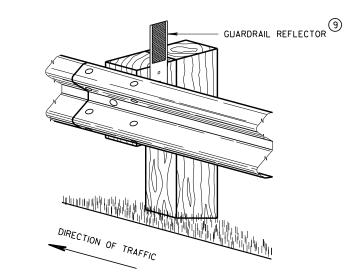
USE ALL OTHER STANDARD BEAM GUARD DETAILS FOR CONSTRUCTING NESTED W BEAM (NW)

EFFECTIVE LENGTH OF BEAM 3'-11/2" C-C 3'-11/2" C-C 3'-1¹/₂" C-C 3'-1¹/₂" C-C POST SPACING SPACING **SPACING** SPACING FINISHED DIRECTION OF SHOULDER TRAFFIC

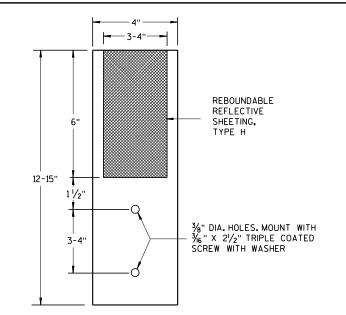
FRONT VIEW

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

* USE DOUBLE SIDED WHITE GUADRAIL REFLECTORS ON ROADWAYS WITH BI-DIRECTIONAL TRAFFIC (NO MEDIAN), USE SINGLE SIDED WHITE (RIGHT SIDE) AND SINGLE SIDED YELLOW (LEFT SIDE) ON ROADWAYS WITH MEDIAN SEPARATION.



4" X 12" GUARDRAIL REFLECTOR DETAIL AND TYPICAL INSTALLATION *



4"x 12" GUARDRAIL REFLECTOR

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

6

15-11b

 $\mathbf{\omega}$

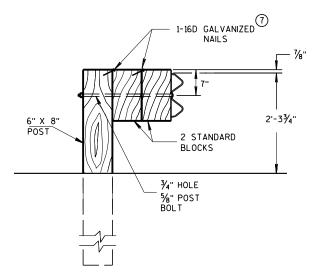
Ω

Δ

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

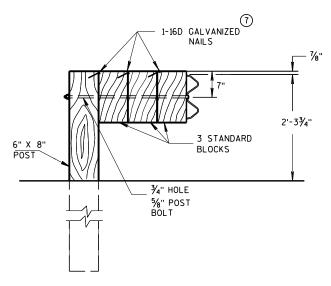
6

S D Ď 14 ₩ 15



DETAIL FOR DOUBLE BLOCKS

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

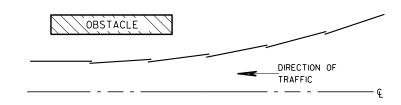


DETAIL FOR TRIPLE BLOCKS

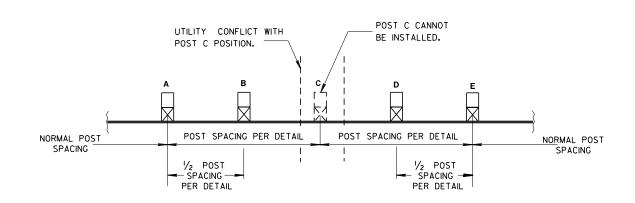
TRIPLE BLOCK DETAIL IS LIMITED TO ONE LOCATION WITHIN A BEAM GUARD RUN.

NOTES: USE DOUBLE OR TRIPLE BLOCKS WHEN UNDERGROUND OBSTACLES PREVENT THE POST FROM BEING INSTALLED.

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



PLAN VIEW BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017

DATE

FHWΔ

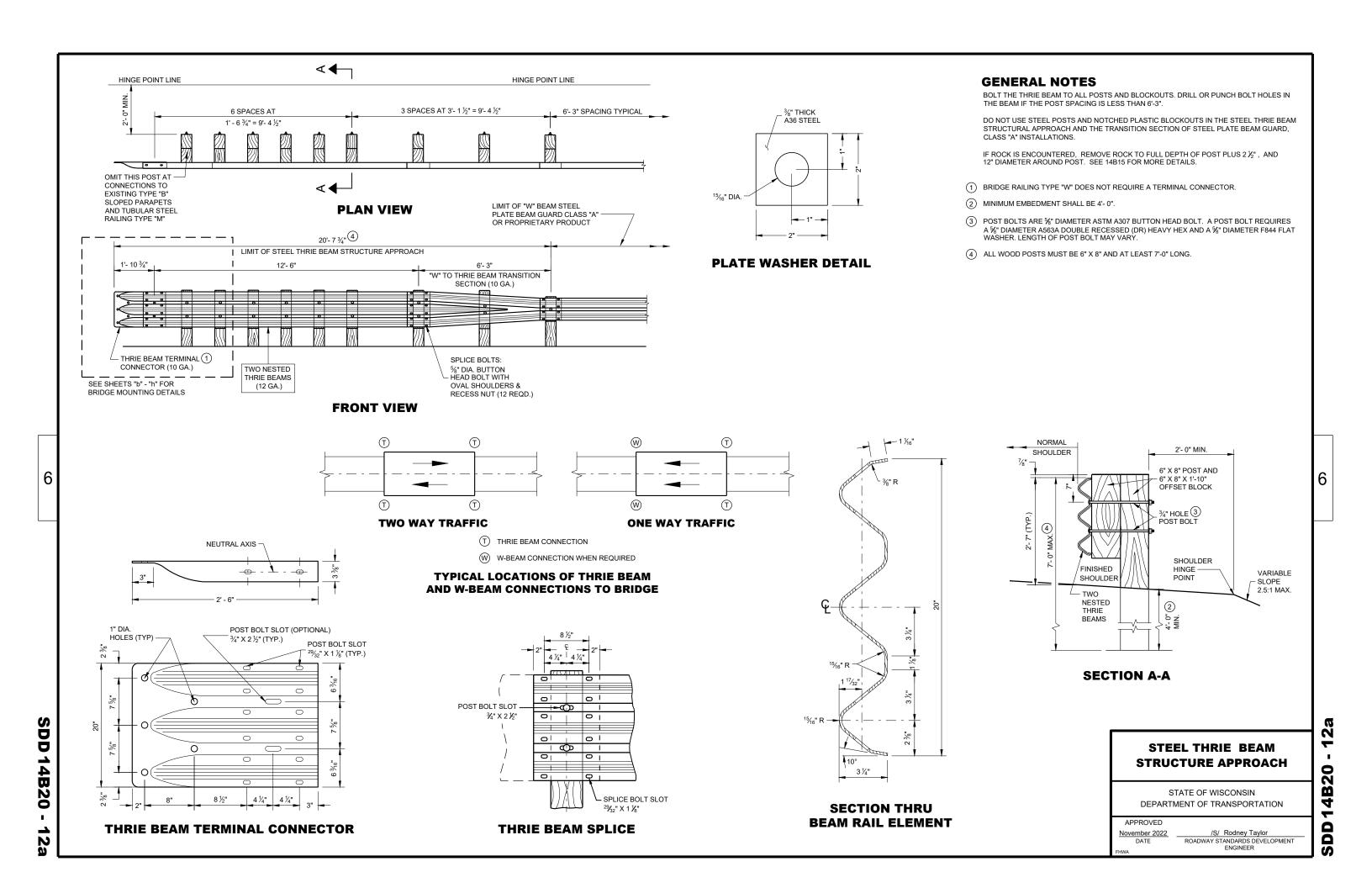
/S/ Rodney Taylor

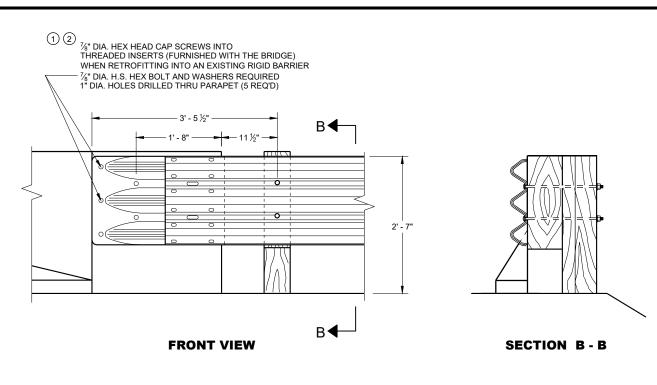
ROADWAY STANDARDS DEVELOPMENT
UNIT SUPERVISOR

6

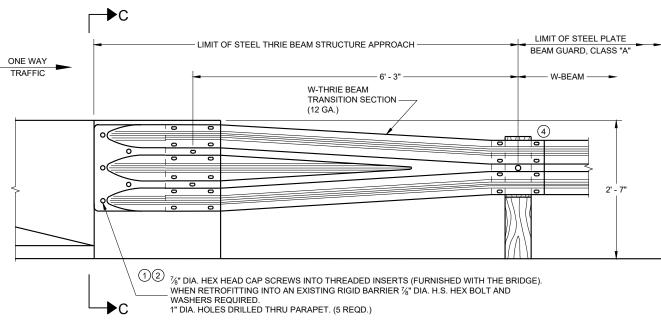
Ω

Ω





THRIE BEAM CONNECTION TO BRIDGE **PARAPET WITH SQUARE ENDS**



FRONT VIEW

W BEAM TRANSITION AND CONNECTION TO **BRIDGE PARAPETS WITH SQUARE ENDS**

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGE)

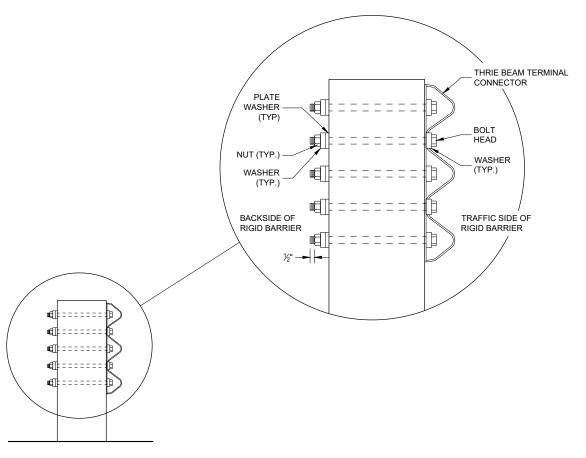
GENERAL NOTES

THESE ARE TYPICAL CONNECTION DETAILS. ADJUST THE POSITION OF CONNECTIONS TO EXISTING BRIDGES TO FIT THE ACTUAL BRIDGE AND SITE DIMENSIONS.

BOLTS, NUTS AND WASHERS SHALL CONFORM TO ASTM A325, A449 AND GALVANIZED PER STANDARD SPECIFICATIONS 614.

- 1) DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.
- (2) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM TERMINAL CONNECTOR. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/8" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.
- 3 THE RECESS FOR A W-BEAM CONNECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, SHALL BE FILLED WITH A TREATED TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 ½".
- (4) W6 X 9 OR W6 X 8.5 STEEL POSTS AND NOTCHED PLASTIC BLOCKOUTS ARE ACCEPTABLE ALTERNATIVES FOR 6" X 8" WOOD POST WITH WOOD OR PLASTIC BLOCKOUTS, USE APPROVED NOTCHED PLASTIC BLOCKOUTS WITH STEEL POSTS

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



SECTION C - C

STEEL THRIE BEAM STRUCTURE **APPROACH, CONNECTION TO SQUARE END PARAPETS**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

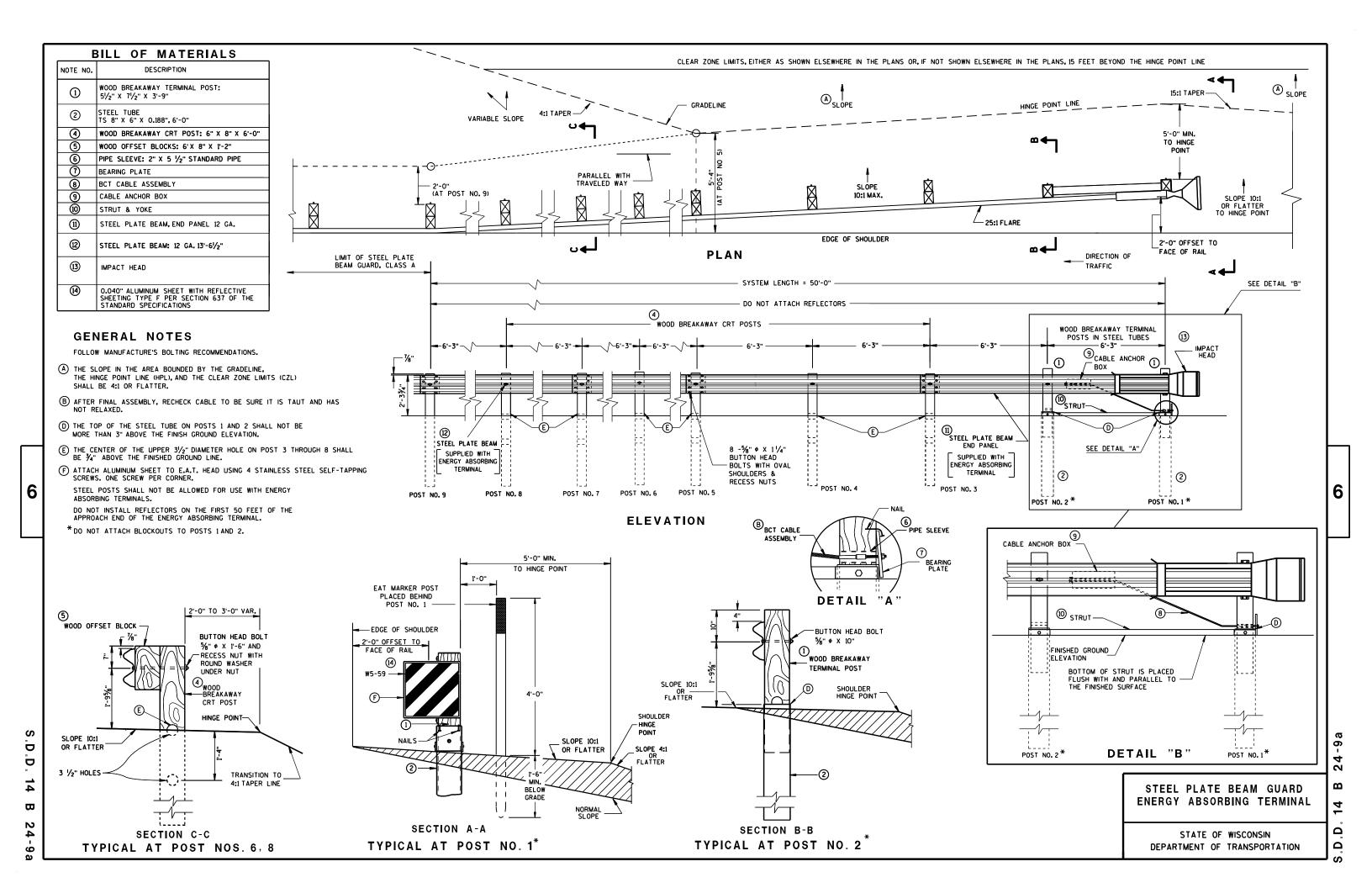
November 2022 DATE

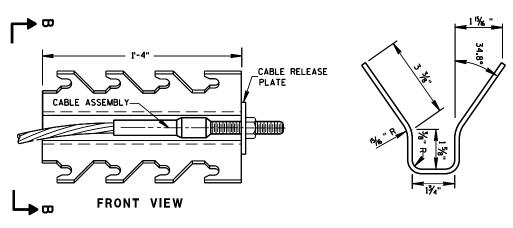
/S/ Rodney Taylor

ROADWAY STANDARDS DEVELOPMENT
ENGINEER

SDD 14B20

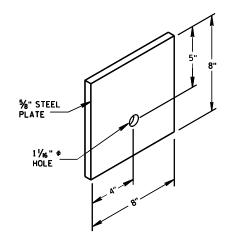
<u>4</u>





SECTION B-B

(9) CABLE ANCHOR BOX



[⊙]STEEL BEARING PLATE

STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL

6

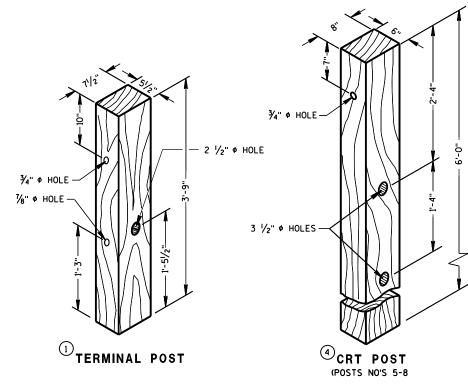
24-9b

14

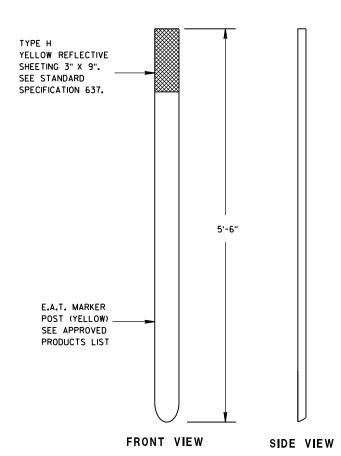
S.D.D.

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

(4) REFLECTIVE SHEETING DETAILS



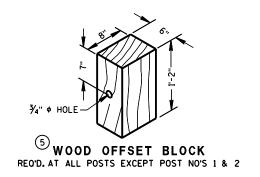
WOOD BREAKAWAY POSTS



E.A.T. MARKER POST

GENERAL NOTES

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



24-90

 $\mathbf{\omega}$

۵

Ω

6

STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL

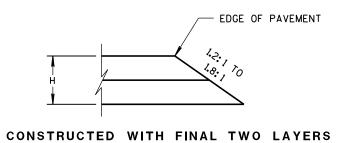
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

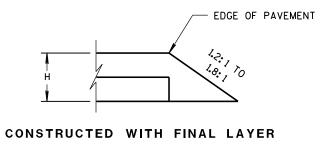
APPROVED June 2017

/S/ Rodney Taylor ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

6

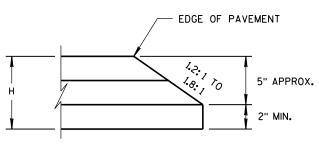
D D ₩ 24-9c



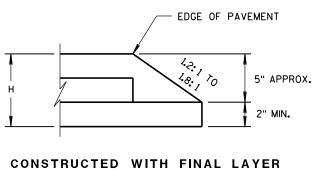


FOR H 5" OR LESS

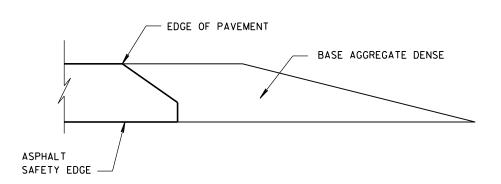
FOR H 5" OR LESS







FOR H GREATER THAN 5"



HMA PAVEMENT AND HMA OVERLAYS

FINISHED SHOULDER AGGREGATE PLACEMENT

SAFETY EDGE SM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

 $\mathbf{\omega}$

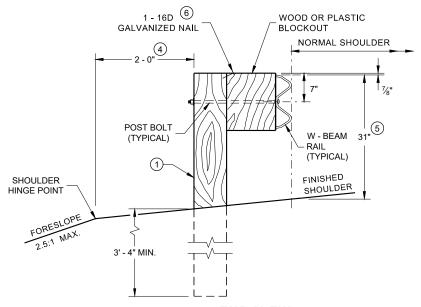
Ω

Ω

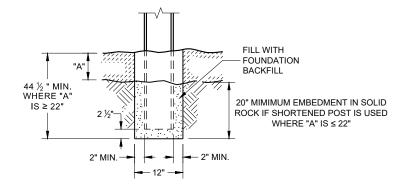
APPROVED

DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER

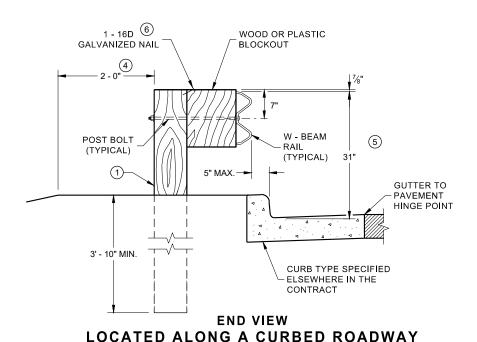
- ② USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.
- (3) IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2 1/2" INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS TO BE FREE OF LARGE ROCKS.
- 4 WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).
- $\fill \ensuremath{\texttt{5}}$ FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS \$\pm1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27 % " TO 32".
- (6) WHEN USING STEEL POST AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.
- \bigcirc TOTAL POST LENGTH FOR TYPE K IS 7' 0". TOTAL POST LENGTH FOR OTHER MGS TYPES IS 6' 0".

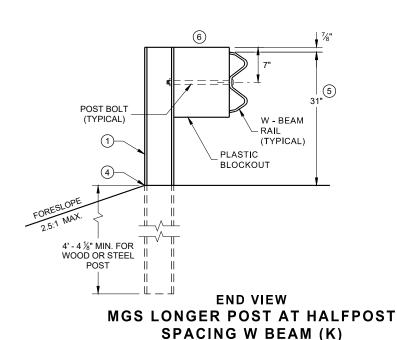


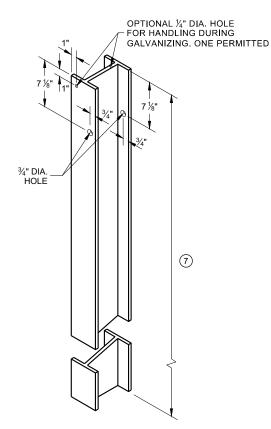
END VIEW
LOCATED ALONG A ROADWAY SHOULDER
STANDARD INSTALLATION



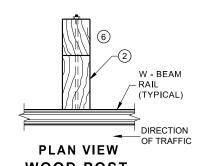
SETTING STEEL OR WOOD POST IN ROCK



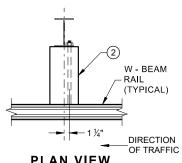




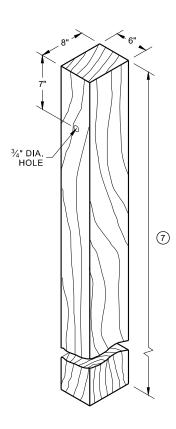
STEEL POST & HOLE PUNCHING DETAIL (W 6 X 9) (1)



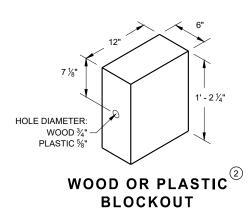
PLAN VIEW
WOOD POST,
BLOCKOUT & BEAM



PLAN VIEW
STEEL POST,
PLASTIC BLOCKOUT & BEAM



WOOD POST (6" X 8") NOMINAL



MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

3' 1½" C -C 3' 1½" C - C POST SPACING POST SPACING

6' 3" C - C

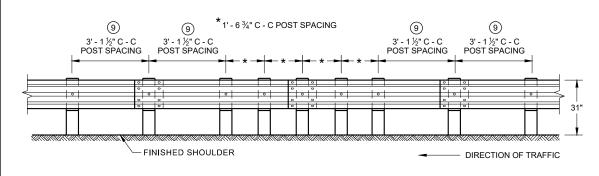
POST SPACING

DIRECTION OF TRAFFIC

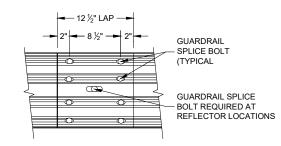
6' - 3" C -C

POST SPACING

FINISHED SHOULDER



FRONT VIEW
QUARTER POST SPACING (QS)



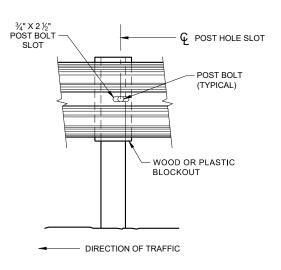
FRONT VIEW
MID-SPAN BEAM SPLICE

GENERAL NOTES

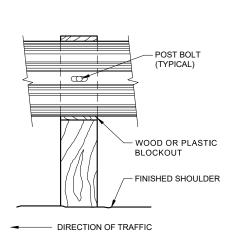
- 8 DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.
- (9) 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.

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

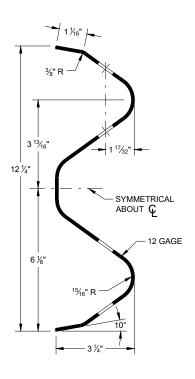
GUARD RAIL SPLICE BOLTS ARE A %" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES %" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.



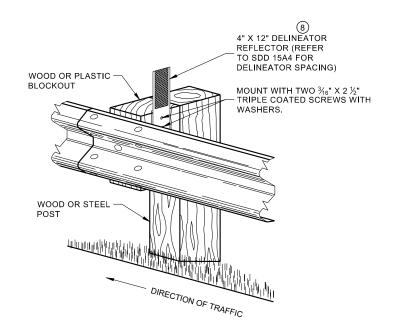
FRONT VIEW AT STEEL POST



FRONT VIEW AT WOOD POST



SECTION THRU W-BEAM RAIL



ONE SIDED REFLECTOR DETAIL
AND TYPICAL INSTALLATION

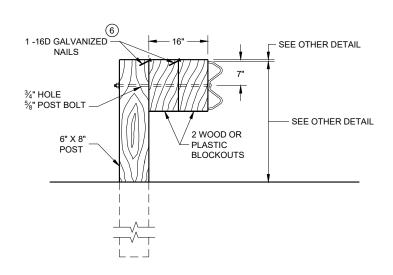
MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

07b

SDD

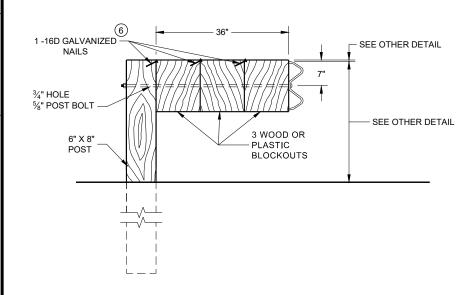
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6



DETAIL FOR 16" BLOCKOUT DEPTH

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



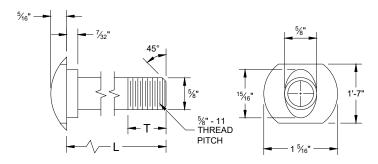
DETAIL FOR 36" BLOCKOUT DEPTH

NOTES: UNDER SPECIAL CIRCUMSTANCES, SUCH AS AVOIDING OBSTACLES THAT ARE NOT RELOCATED, IT IS ACCEPTABLE TO INSTALL ADDITIONAL BLOCKOUTS TO OBTAIN UP TO 36" DEPTH FOR ONE OR TWO POSTS IN A SECTION OF GUARDRAIL.

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

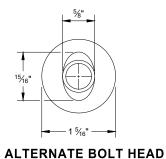
NOTE:

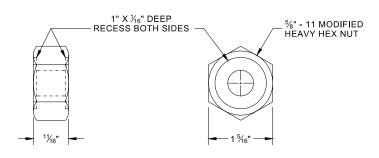
- 1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF $\frac{3}{16}$ ".
- 2. IF THE BOLT EXTENDS MORE THAN $\mbox{\ensuremath{\mbox{\sc M}}}\mbox{\sc "}\mbox{\sc FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.}$



POST BOLT TABLE

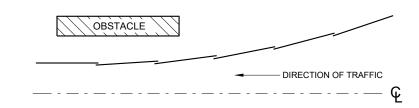
L	T (MIN.)
1 1/4"	1 1/8"
2"	1 3/4"
10"	4"
14"	4 1/16"
18"	4"
21"	4 1/16"
25"	4"



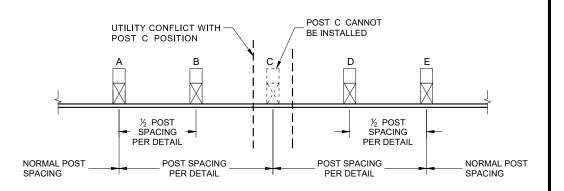


POST BOLT, SPLICE BOLT **AND RECESS NUT**

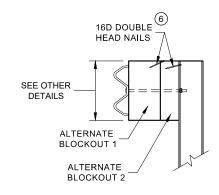
WHEN USING STEEL POST AD WOOD BLOCKOUTS, INSTALL FOUR 16D (6) GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

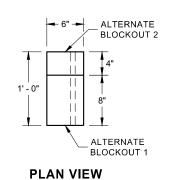


PLAN VIEW BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION





SIDE VIEW

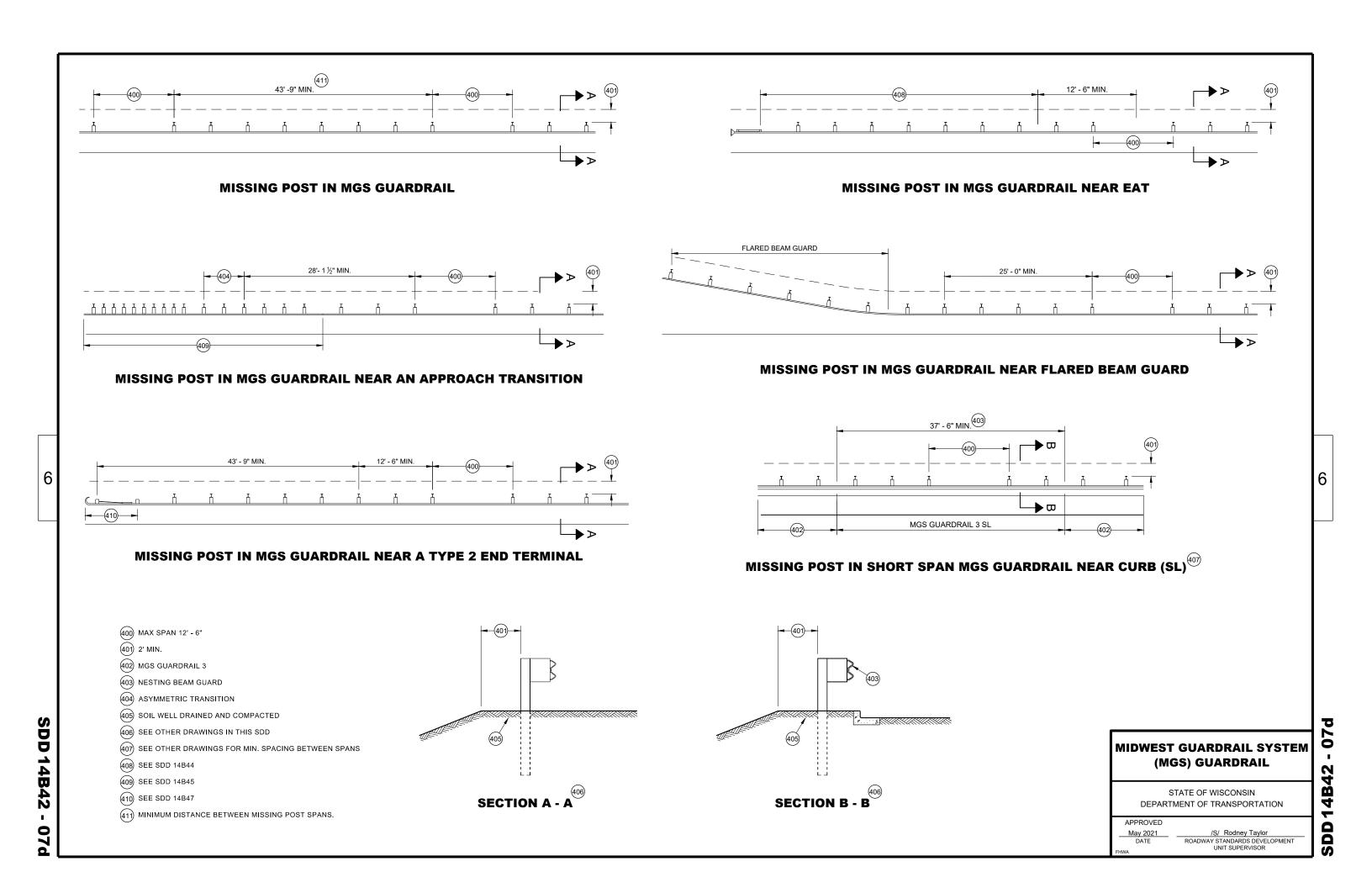
ALTERNATE WOOD BLOCKOUT DETAIL

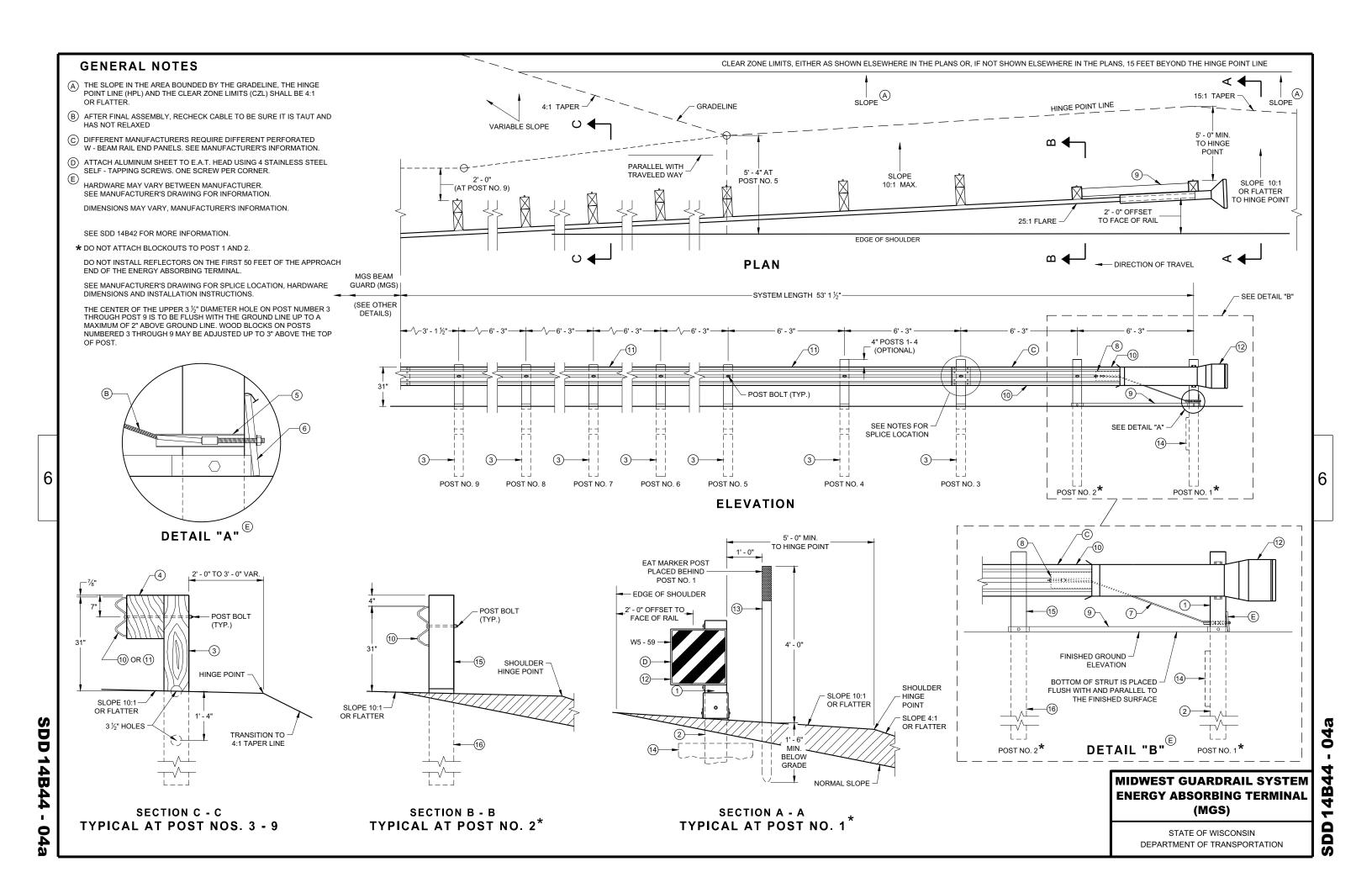
MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

07

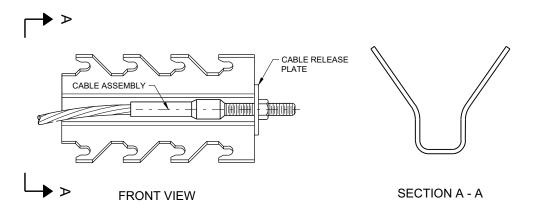
SD

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

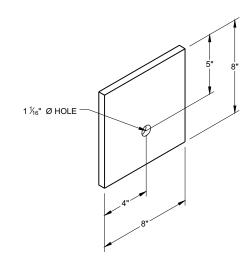




GENERIC GROUND STRUT



GENERIC ANCHOR CABLE BOX ^{(9) (E)}



BEARING PLATE

MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

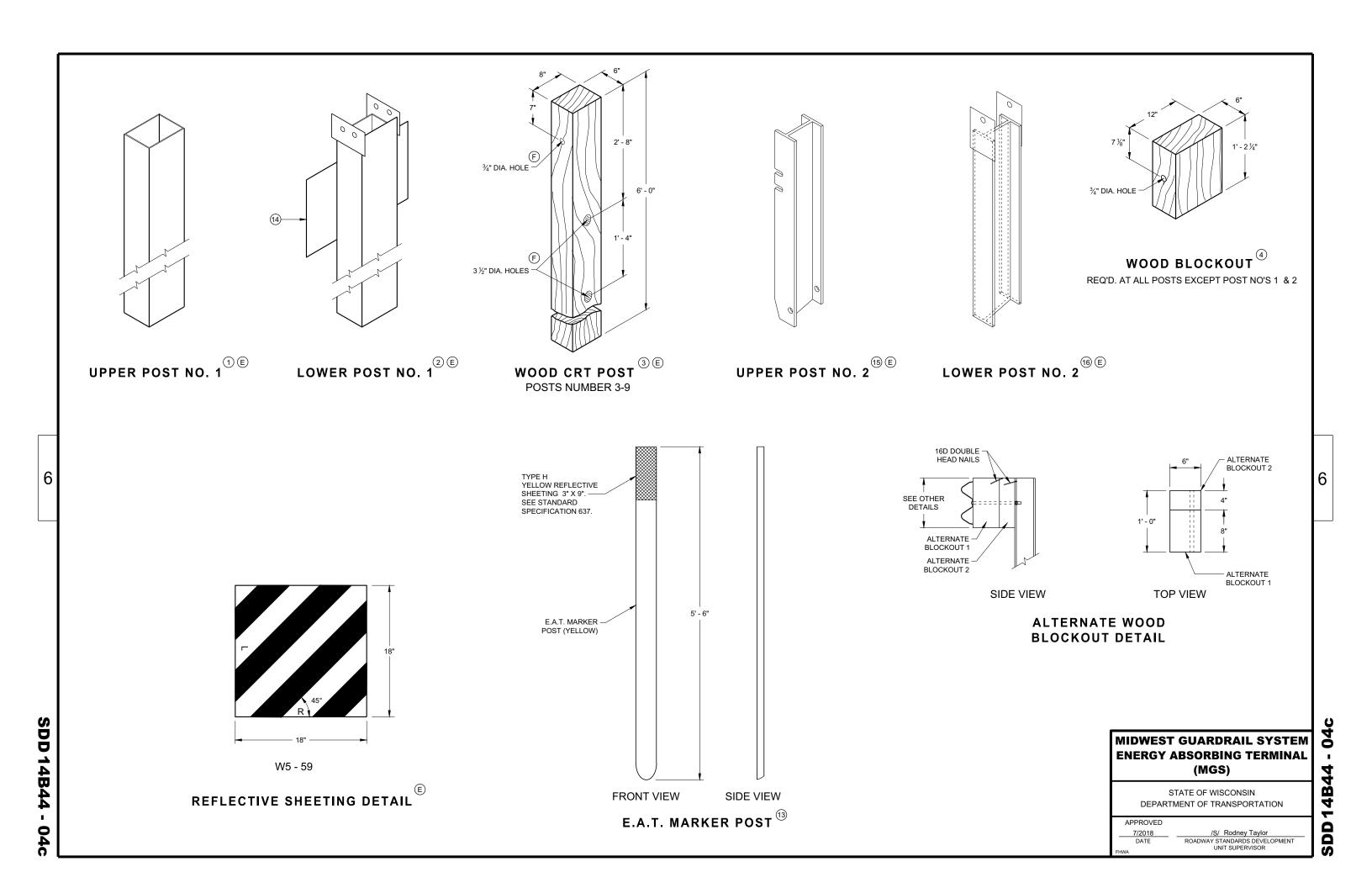
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

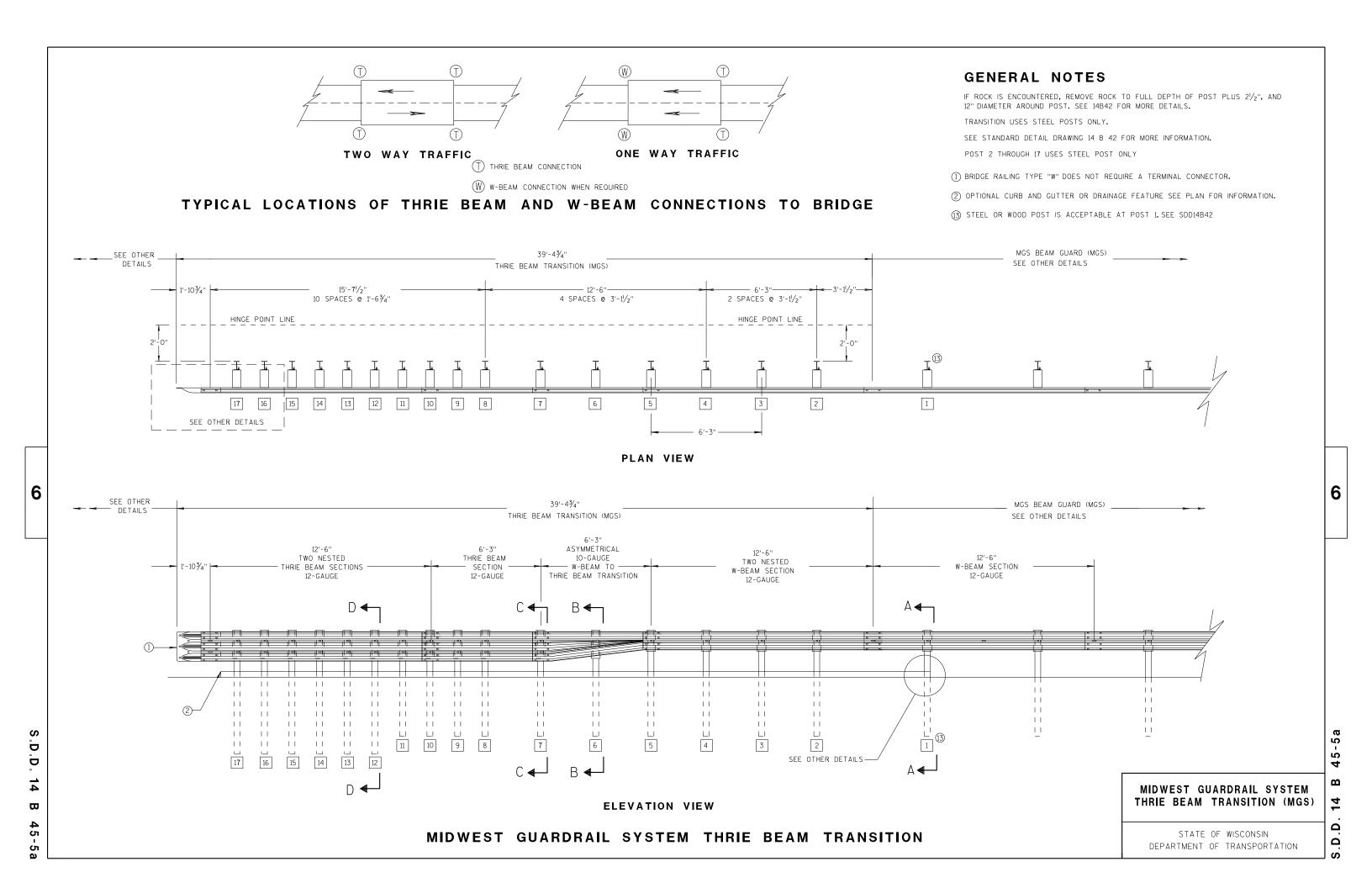
6

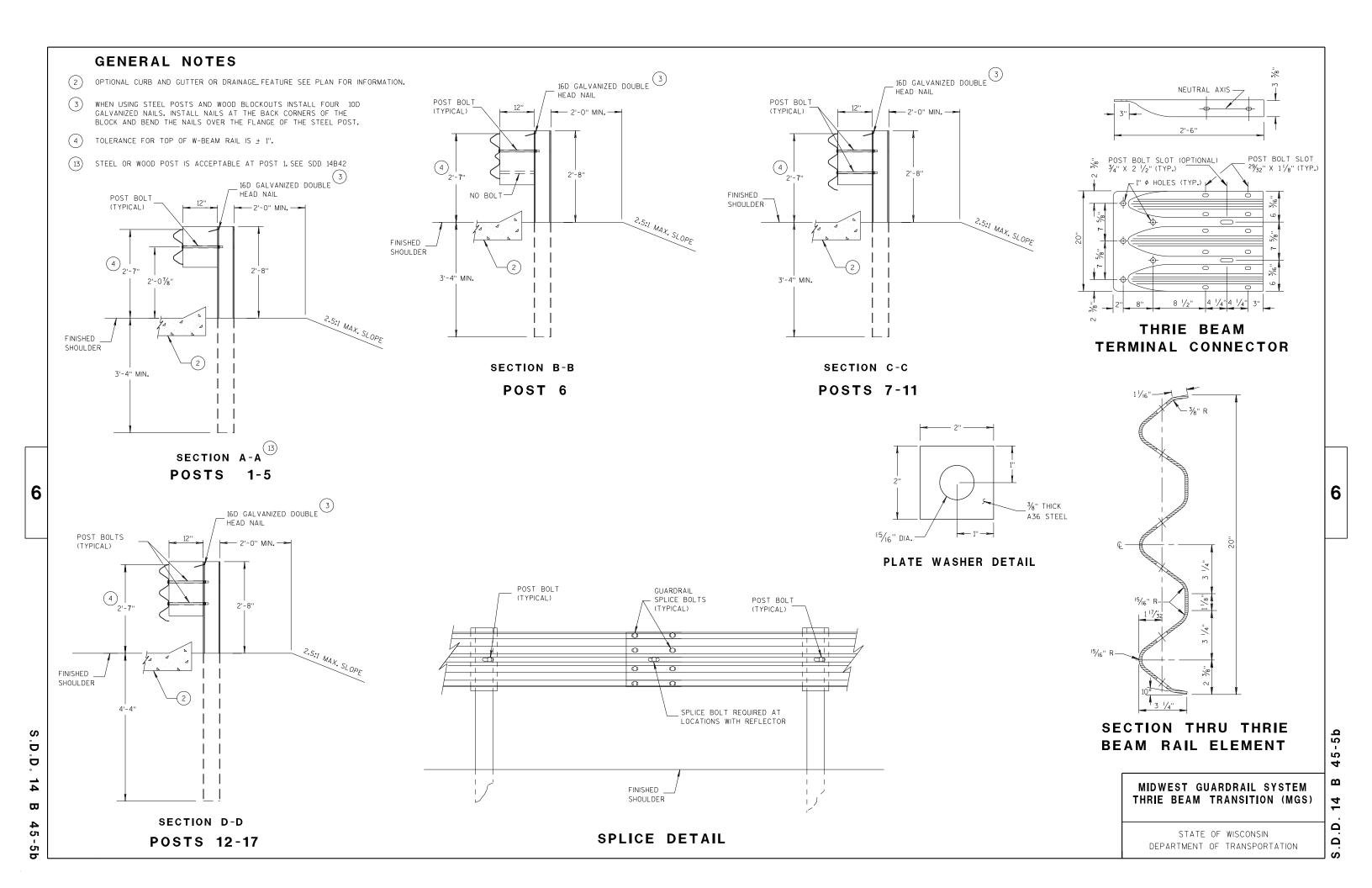
O

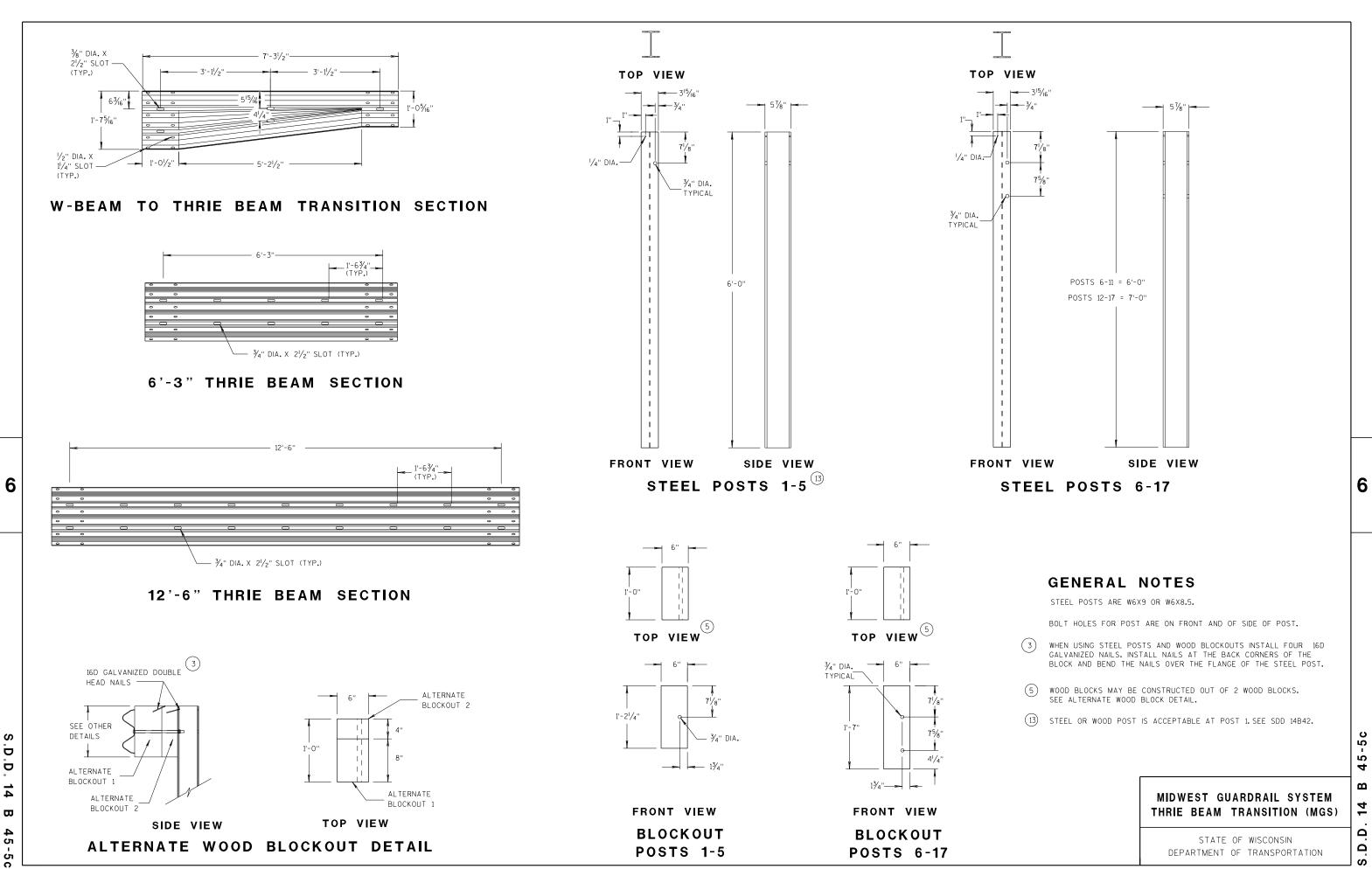
SDD

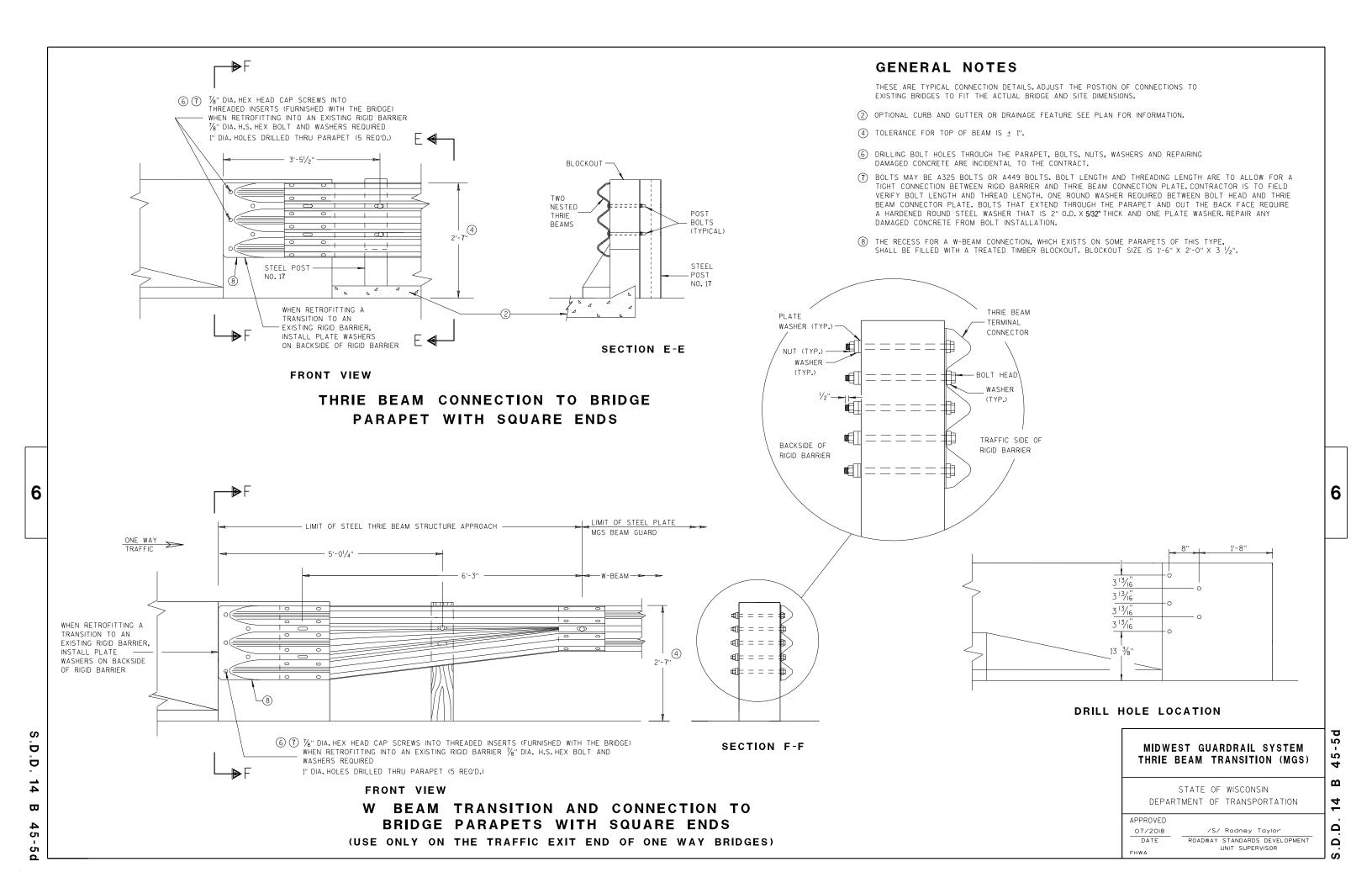
SDD 14B44 - 04

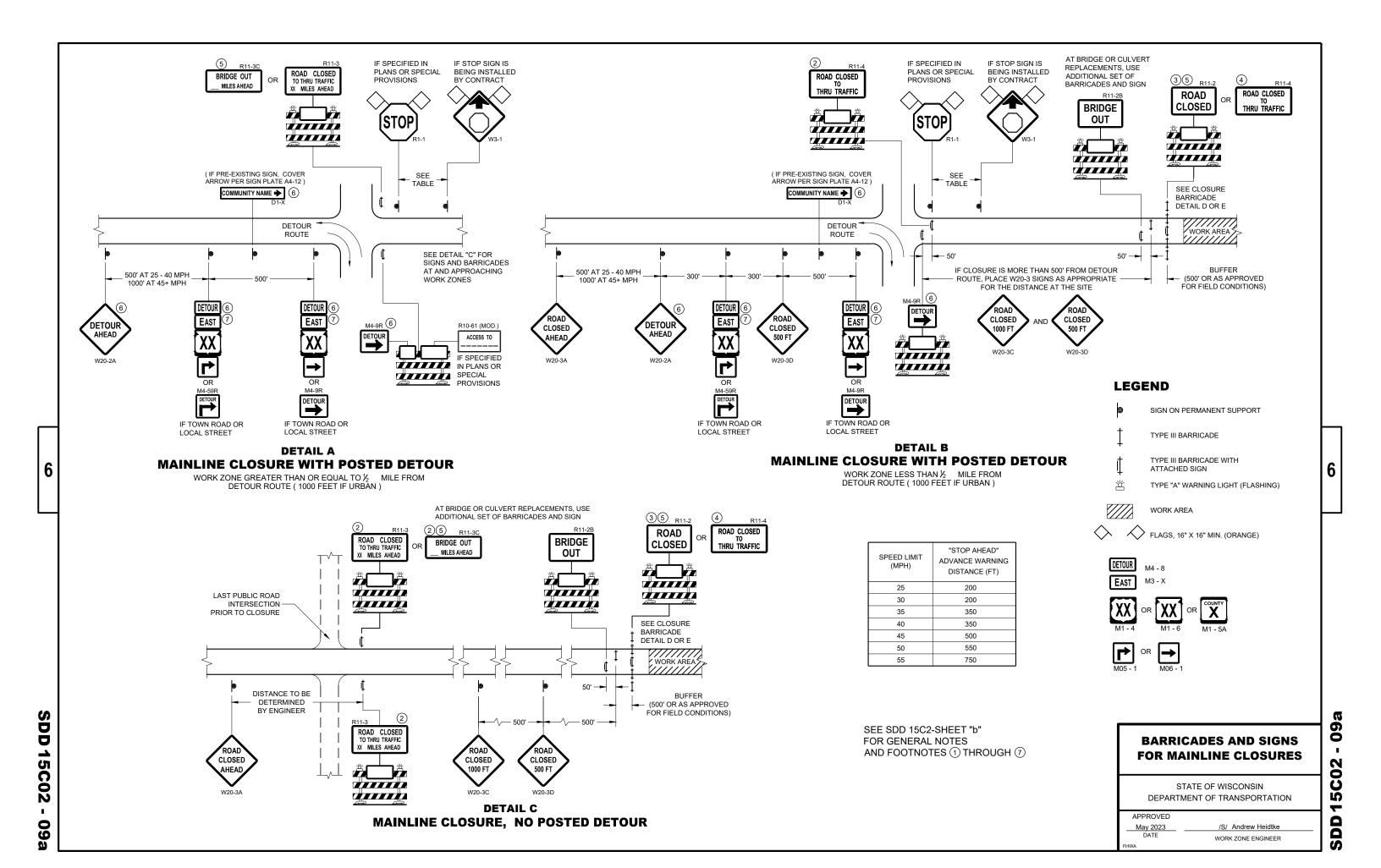


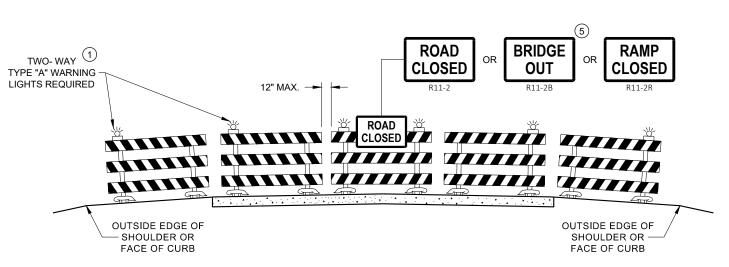




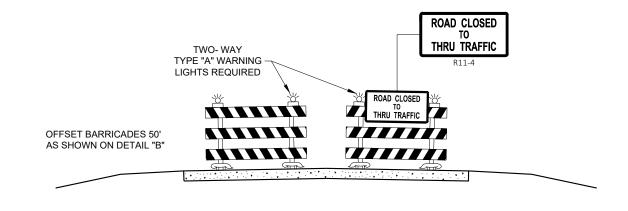








DETAIL D ROAD CLOSURE BARRICADE DETAIL APPROACH VIEW



DETAIL E LANE CLOSURE BARRICADE DETAIL **APPROACH VIEW**

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

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

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

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

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

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

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

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

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

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

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

R11 - 2 SHALL BE 48" X 30"

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

M4 - 9 SHALL BE 30" X 24"

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

M4 - 8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)

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

MO5 - 1 AND MO6 - 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS) D1 - X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

R1 - 1 SHALL BE 36" X 36"

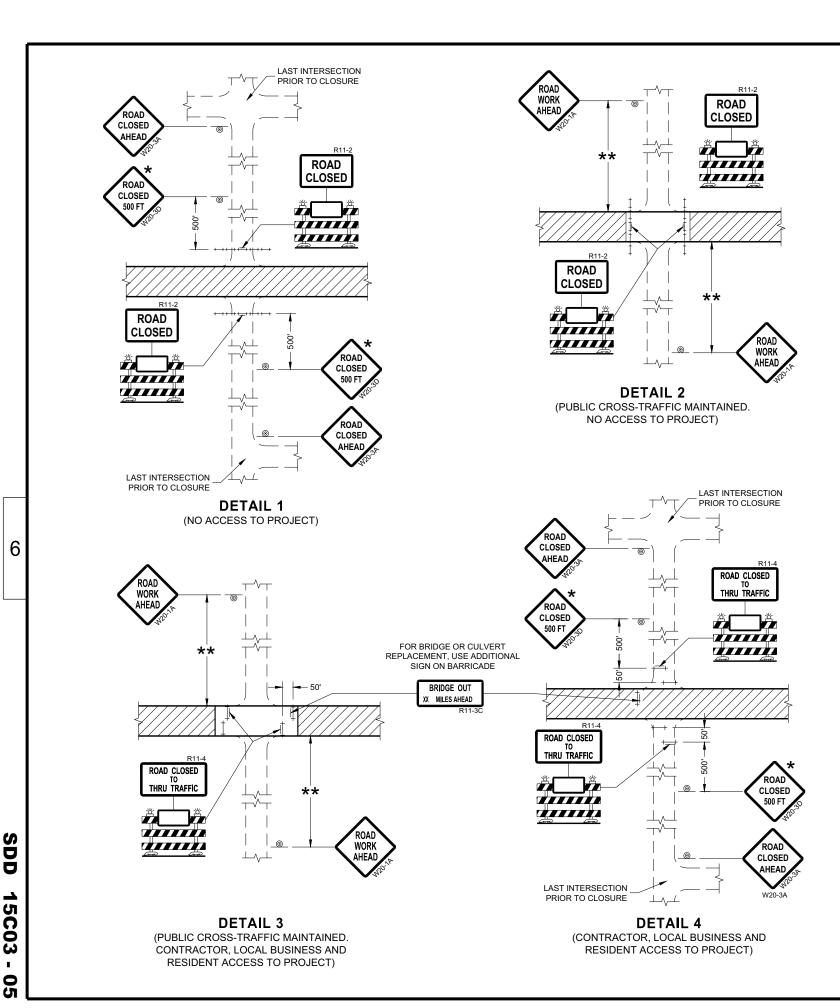
- TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT **SPACING**
- THESE SIGNS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

BARRICADES AND SIGNS FOR **VARIOUS CLOSURES**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED May 2023 DATE WORK ZONE ENGINEER

Ò 0 Ŋ



GENERAL NOTES

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

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

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

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

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

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

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

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

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

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW: R11-2 SHALL BE 48" X 30". R11-4 AND R11-3 SHALL BE 60" X 30".

- ★ OMIT THE "ROAD CLOSED 500 FT." SIGN IF THE LAST INTERSECTION IS 500 FEET OR LESS FROM THE WORK ZONE.
- ** 500' MAX. OR AT LAST INTERSECTION, WHICHEVER IS CLOSEST.

LEGEND

SIGN ON PERMANENT SUPPORT

TYPE III BARRICADE

TYPE III BARRICADE WITH ATTACHED SIGN

TYPE "A" WARNING LIGHT (FLASHING)

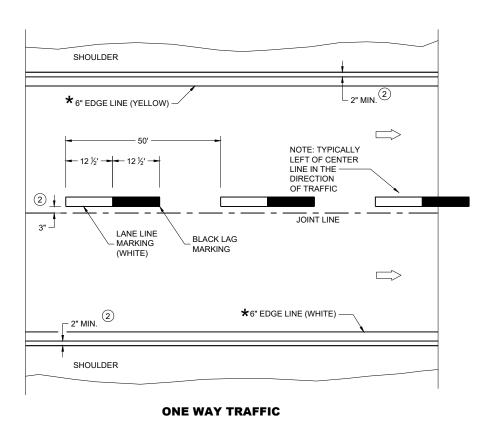
WORK AREA

BARRICADES AND SIGNS FOR **SIDEROAD CLOSURES**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED July 2018 DATE /S/ Andrew Heidtke WORK ZONE ENGINEER ŭ

S



PERMANENT PAVEMENT MARKING

GENERAL NOTES

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

- 1) LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING
- (2) MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

LEGEND

"T" MARKING

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

PERMANENT LONGITUDINAL **PAVEMENT MARKINGS**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

May 2023 DATE

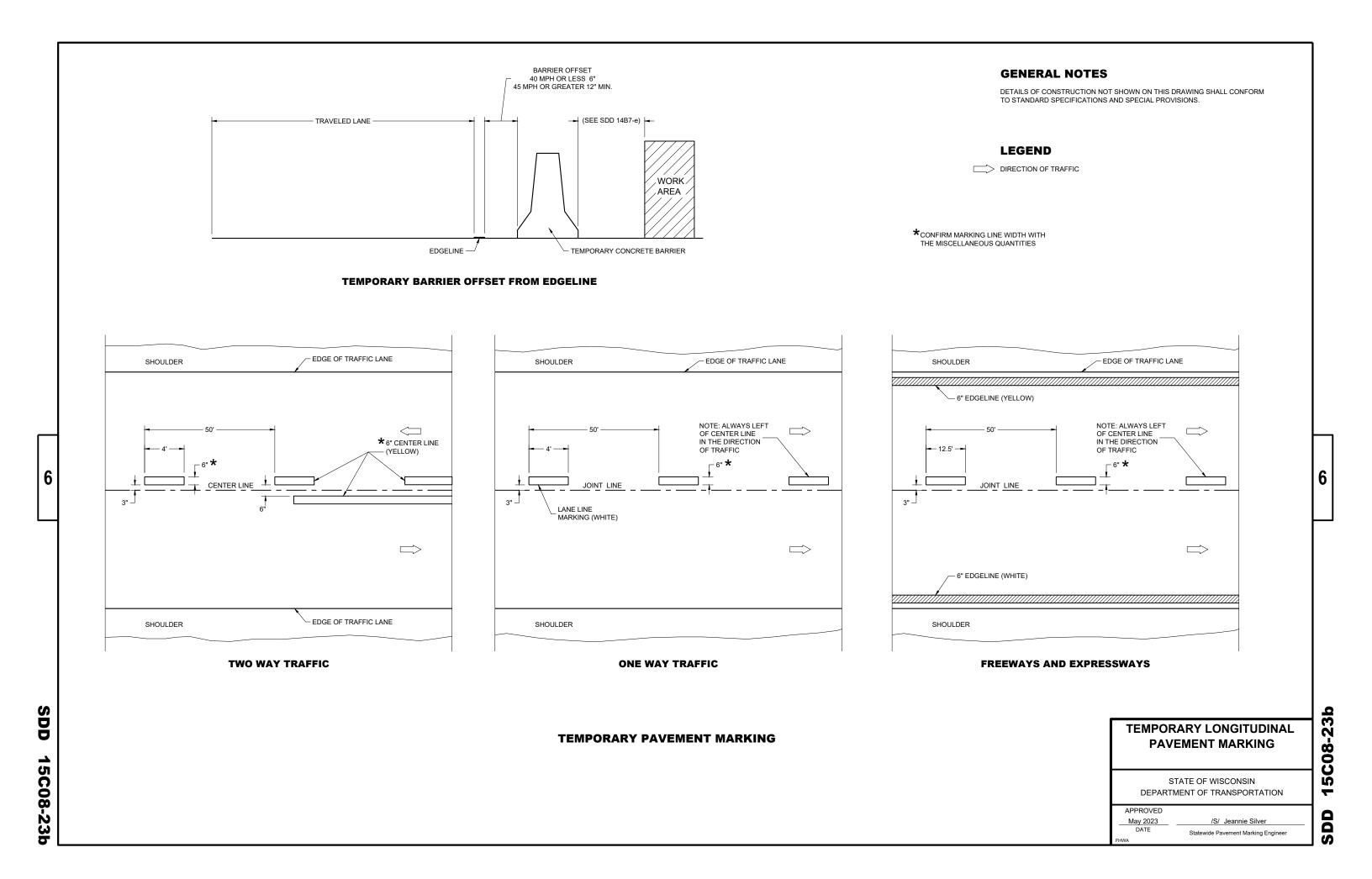
/S/ Jeannie Silver Statewide Pavement Marking Engineer

6

SDD

C08-23 Ŋ SD

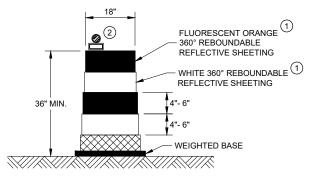
15C08-23a



SDD 15C11

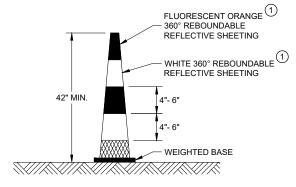
GENERAL NOTES

- (1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
- (2) LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.



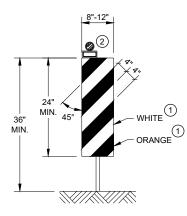
DRUM

BALLAST WIDTHS RANGE FROM 24"-36"



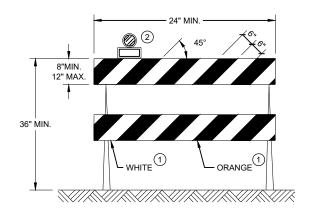
42" CONE

DO NOT USE IN TAPERS ½ SPACING OF DRUMS BALLAST WIDTHS RANGE FROM 14"-20"



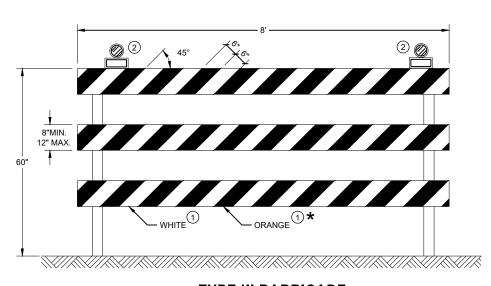
VERTICAL PANEL

THE STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE II BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE III BARRICADE

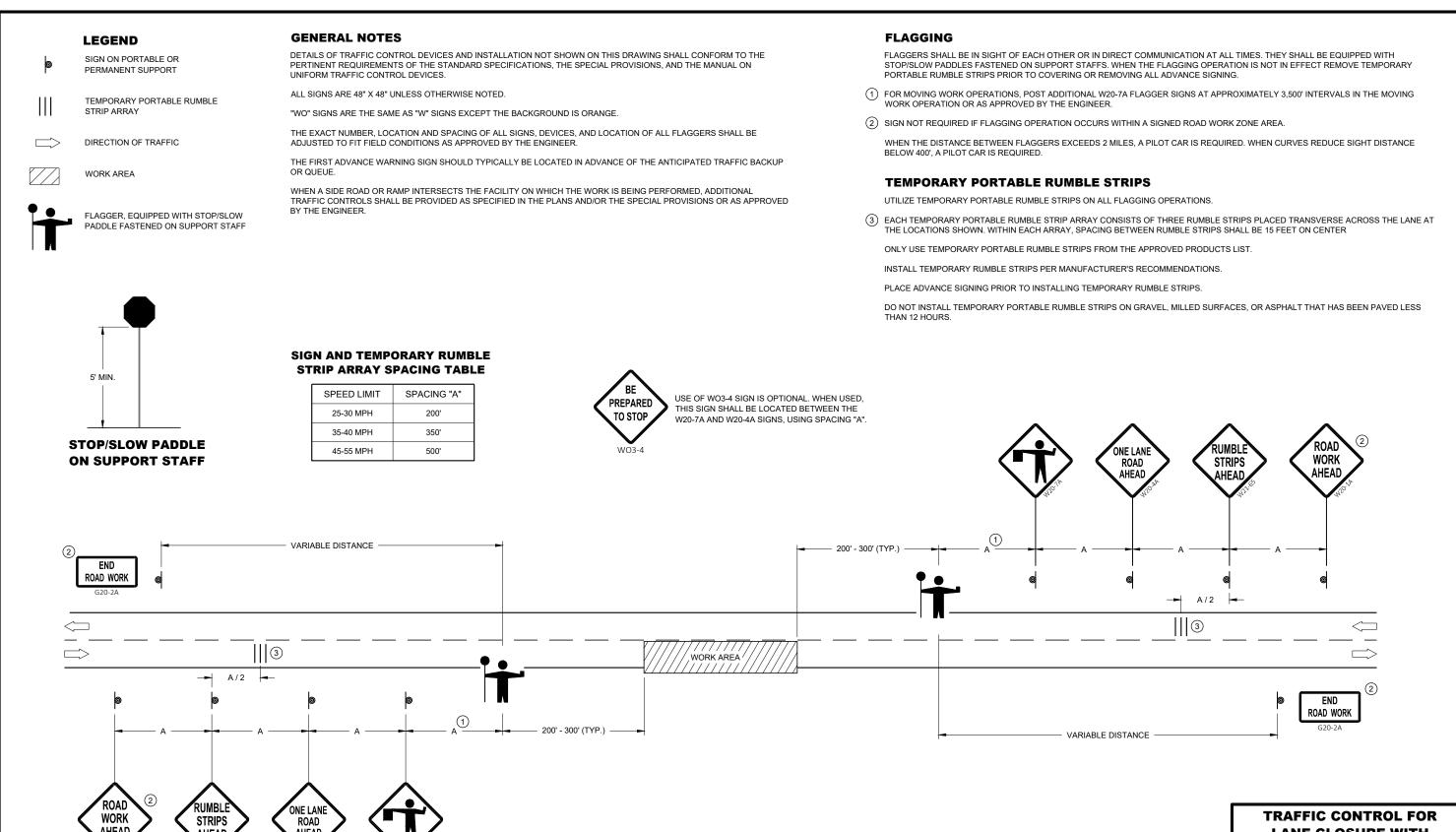
IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 15C

APPROVED	
November 2022	/S/ Andrew Heidtke
DATE	WORK ZONE ENGINEER



LANE CLOSURE WITH **FLAGGING OPERATION** 0

2

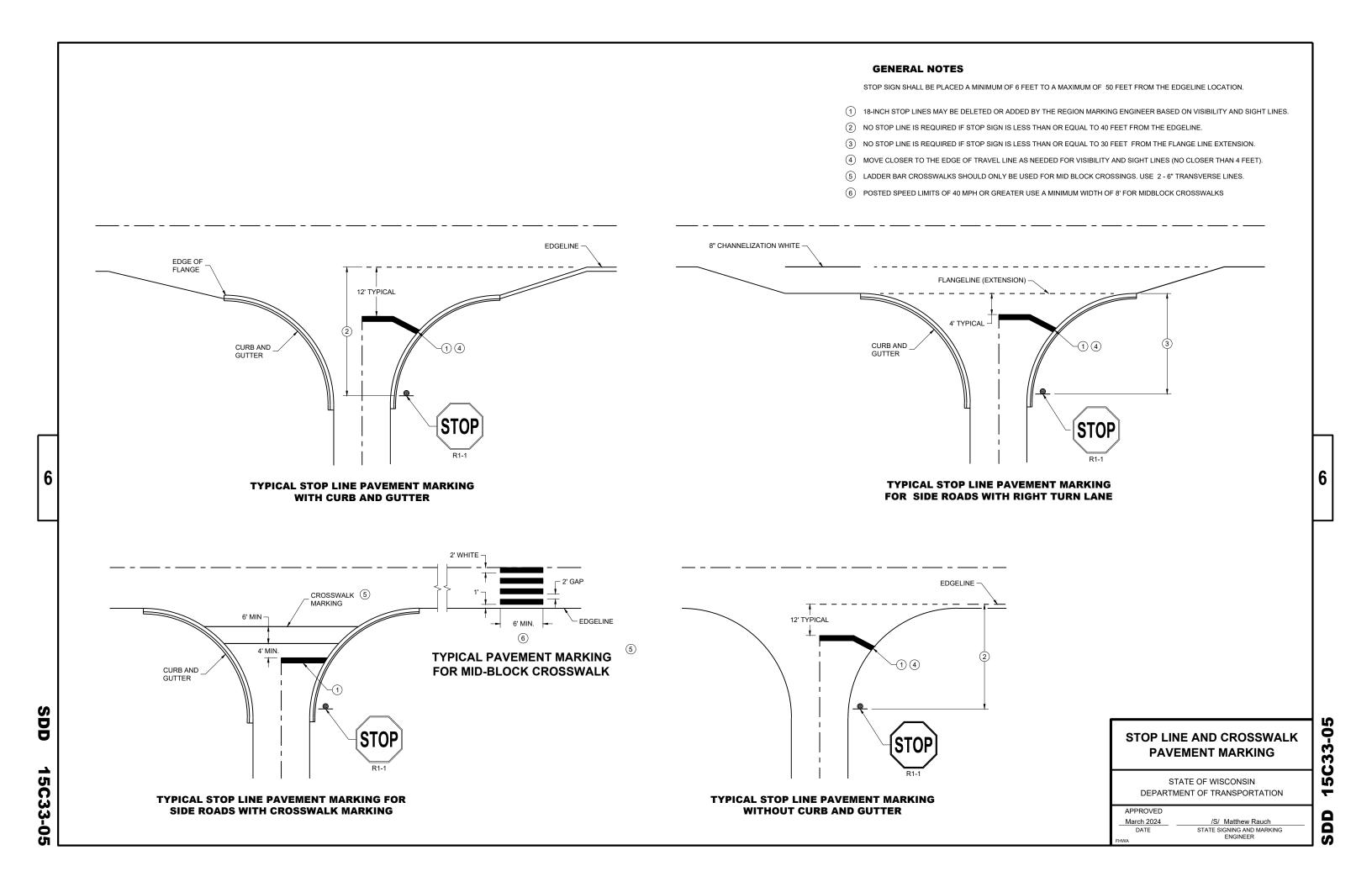
Ŋ

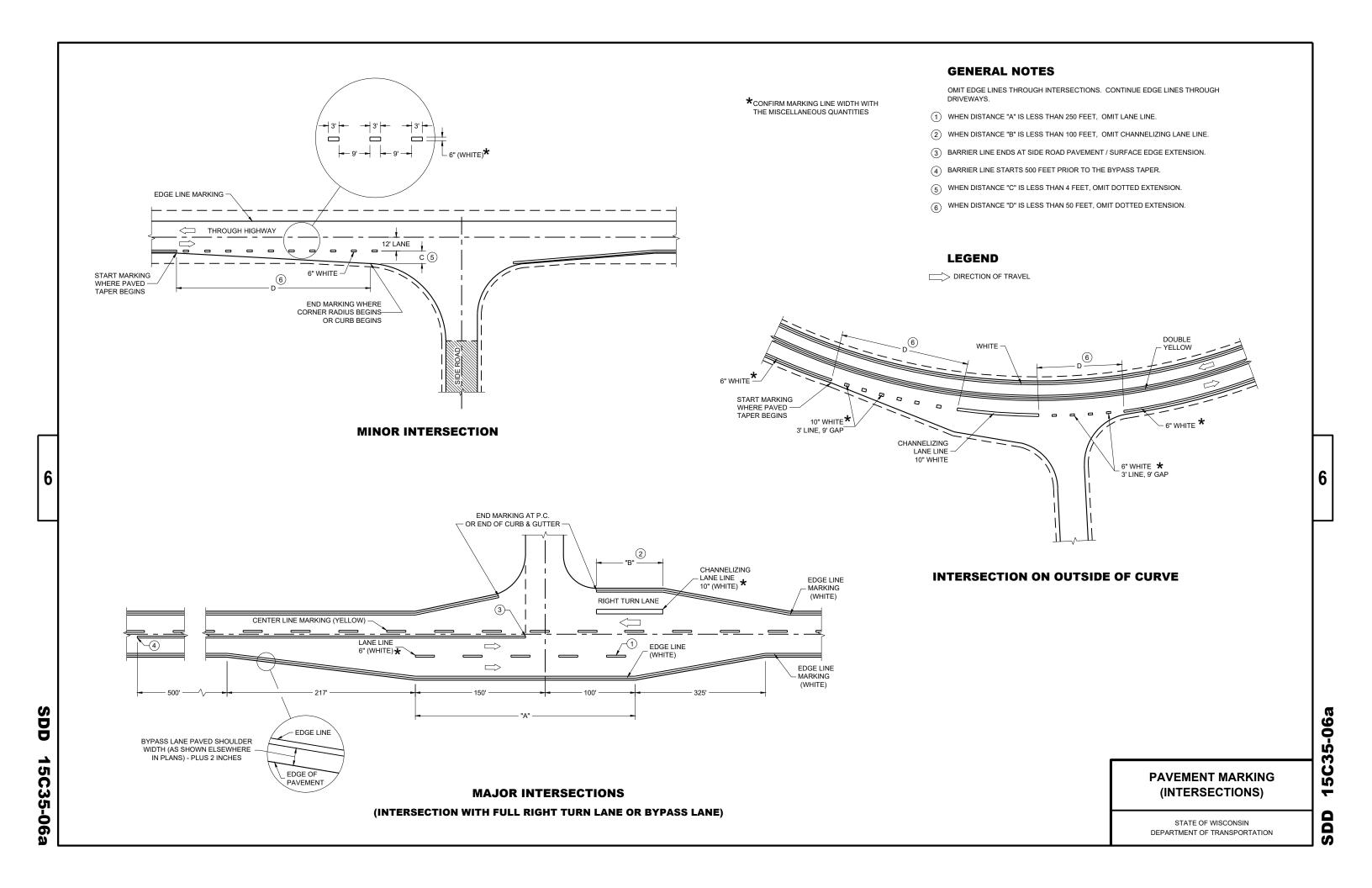
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

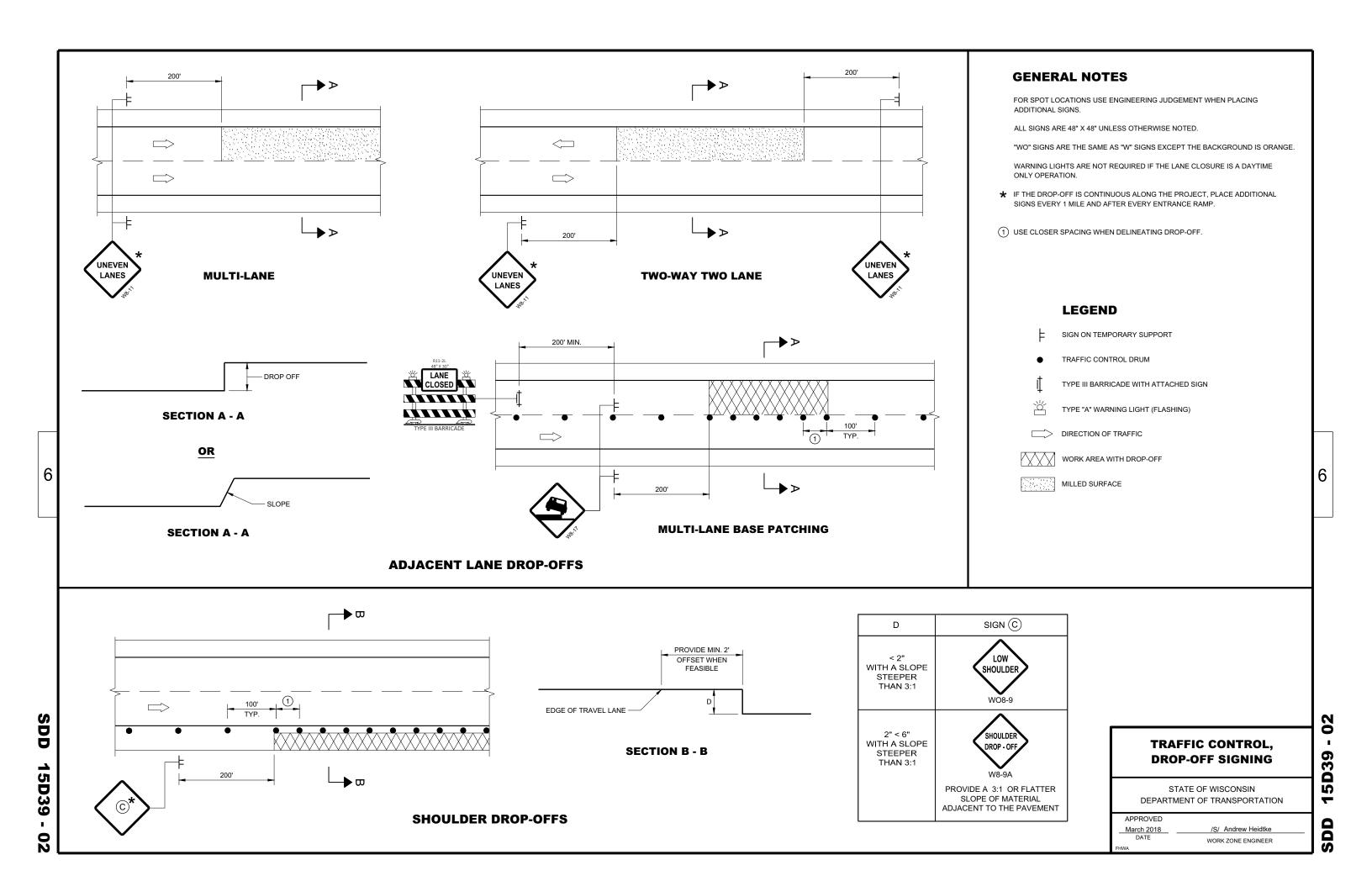
APPROVED May 2022 DATE /S/ Andrew Heidtke WORK ZONE ENGINEER

19-9

D







45





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 or behind barrier wall, see A4-10 sign plate.

The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" (\pm) 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" (\pm) 3".

- 3. For expressways and freeways, mounting height is 7'- 3" (\pm) 3" or 6'-3" (\pm) 3" depending upon existence of a sub-sign.
- 4. Minimum mounting height for signs mounted on traffic signal poles is 5' 3'' ($\frac{+}{-}$) 3''.
- 5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 6. Folding signs shall be mounted at a height of 5'-3'' (\pm) 3'' or as directd by the Engineer.

2' Min - 4' Max (See Note 5)



White Edgeline
Location

Outside Edge
of Gravel

POST EMBEDMENT DEPTH

Area of Sign	
Installation	D
(Sq.Ft.)	(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.

PLOT BY : mscj9h

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R Rawh

For State Traffic Engineer

DATE 12/6/23 PLATE NO. __A4-3.23

Ε

PROJECT NO: HWY: COUNTY: SHEET NO:



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



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

HWY:



PLAN VIEW

COUNTY:

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer

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

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN

PROJECT NO:

PLOT DATE : 27-JAN-2014 09:48

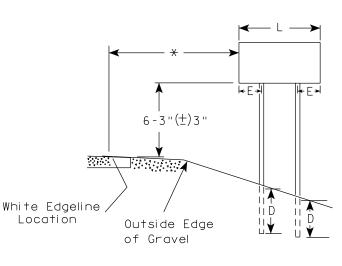
PLOT NAME :

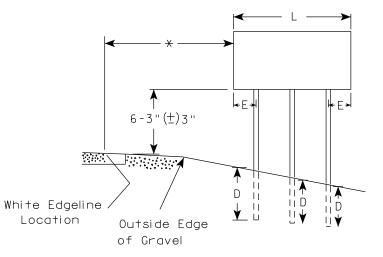
PLOT BY: mscsja

PLOT SCALE: 13.659812:1.000000

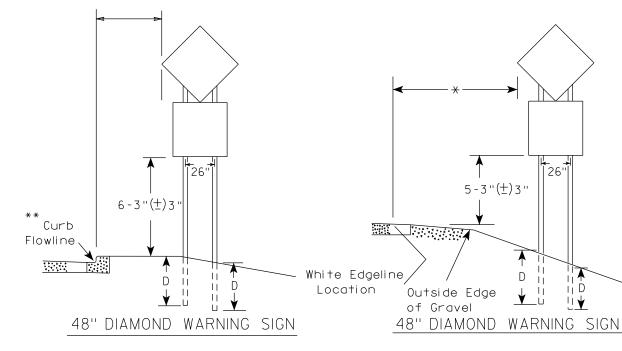
APPROVED

WISDOT/CADDS SHEET 42





2'Min - 4'Max (See Note 6)



	SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)	
	L	E
***	Greater than 48" Less than 60"	12"
	60" to 108"	L/5

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)		
L	E	
Greater than 108" to 144"	12''	

GENERAL NOTES

- 1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
- 2. See tables below for required number of posts.
- 3. For expressways and freeways, mounting height is 7'-3" (±) 3" or 6'-3" (±) 3" depending upon existence of sub-sign.
- 4. The (±) tolerance for mounting height is 3 inches.
- 5. J-Assemblies are considered to be one sign for mounting height.
- 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 7. Folding signs shall be mounted at a height of 5'-3'' (\pm) 3'' or as directed by the engineer.
- 8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±) 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" (±) 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.
- $\star\star\star$ See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

DATE 12/6/23 PLATE NO. A4-4.16

SHEET NO:

Ε

PROJECT NO: HWY:

FILE NAME : C:\CAEfiles\Project\tr_stdplate\A44.dgn

COUNTY:

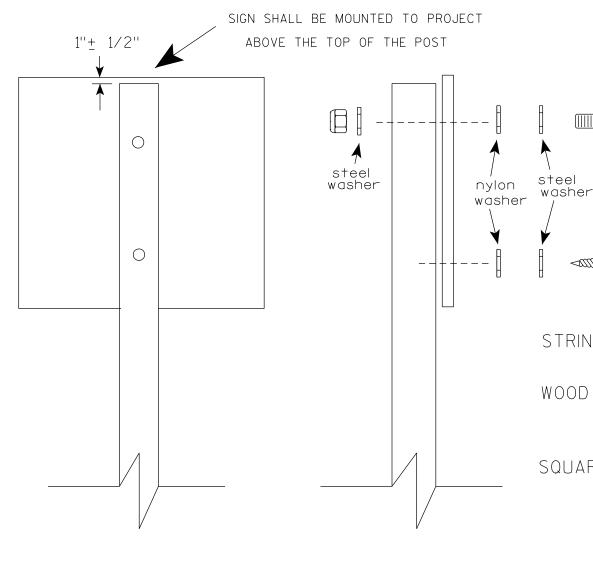
I T .

PLOT DATE: 6-DEC 2023 11:31

PLOT BY : mscj9h

PLOT NAME :

PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42



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 - $\frac{5}{16}$ " X 1-3/4" Length w/ lock nuts

WOOD POSTS $(4'' \times 6'')$

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 - 1/32 " (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 $\frac{3}{8}$ " I.D. X $\frac{1}{16}$ " STEEL 1-1/4" O.D. X $\frac{3}{8}$ " 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 Matther

≠or State Traffic Engineer

SHEET NO:

DATE 4/1/2020

PLATE NO. <u>A4-8.9</u>

PLOT DATE: 01-APRIL-2020

PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

Ε

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A48.DGN

PROJECT NO:



PROJECT NO: HWY: COUNTY: SHEET NO: FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN PLOT DATE: 05-FEB-2015 17:09 PLOT BY: mscsja PLOT NAME : PLOT SCALE: 13.659812:1.000000

DATE 2/05/15

PLATE NO. <u>A4-9.9</u>

For State Traffic Engineer



BANDING



SINGLE SIGN





WASHER PLACEMENT



HWY:

WASHERS (ALL POSTS) -

1-1/4" O.D. X³/₈" I.D. X¹/₁₆" STEEL 1-1/4" O.D. $\times \frac{3}{8}$ " I.D. \times .080 NYLON FOR ALL TYPE H SIGNS

CHANNEL

GENERAL NOTES

- 1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
- 2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
- 3. Banding and assembly bracket shall be stainless steel. All bands shall be $\frac{3}{4}$ " in width and 0.025" thickness.
- 4. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
 - a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
 - b. Electro-galvanized in accordance with ASTM designation: B 633, Type III, SC 3

"J" ASSEMBLY



STANDARD SIGN SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

DATE 6/10/19

PLATE NO. A5-9.4

Ε

State Traffic Engineer

COUNTY:

PLOT NAME :

PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42

PROJECT NO:

VIEW FROM TOP

GENERAL NOTES

- 1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WISDOT STANDARD SPECIFICATIONS
- 2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, $\frac{3}{4}$ " WIDTH AND 0.025" THICKNESS
- 3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS.

 SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
- 4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
- 5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
 - a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
 - b. Electro-galvanized in accordance with ASTM Designation: B 633, TYPE III, SC 3
- 6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
- 7. STEEL WASHERS SHALL BE $1^{1}/_{4}$ " O.D. X $3/_{8}$ " I.D. X $1/_{16}$ "
- 8. NYLON WASHERS SHALL BE $1^{1}/_{4}$ " O.D. X $3/_{8}$ " I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

 \rightarrow LAG BOLTS SHALL BE $\frac{3}{8}$ " X $\frac{2}{2}$ "

BLOCK BANDING DETAIL (V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

Manher R

APPROVED

DATE 4/19/2022 PLATE NO. A5-10.3

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A510.dgn

PROJECT NO:

PLOT DATE: 19-APRIL 2022 11:55

SIGN

PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

Ε

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.

C —		
		H
		F H B
		F G G
←		→
I	G20-2A	ı

SIZE D 4.5 36 3/8 1/23 3/4 | 2 1/2 | 4 1/8 | 4 1/8 | 11 1/8 12 1/8 18 1 1/2 4 1/2 3 3/4 5 7/8 6 3/4 16 3/4 2 1/2 1 3/4 18 1/2 5/8 48 1 1/8 1/2 8.0 2M 1 1/8 4 1/2 3 3/4 5 7/8 6 3/4 16 3/4 2 1/2 1 3/4 18 1/2 48 5/8 24 1/2 8.0 48 1 1/8 5/8 4 1/2 3 3/4 5 7/8 6 3/4 16 3/4 2 1/2 1 3/4 18 1/2 24 1/2 8.0 4 1/2 3 3/4 4 48 24 1 1/8 1/2 5/8 5 % 6 $\frac{3}{4}$ | 16 $\frac{3}{4}$ | 2 $\frac{1}{2}$ | 1 $\frac{3}{4}$ | 18 $\frac{1}{2}$ 8.0 5 48 24 | 1 $\frac{7}{8}$ 1/2 5/8 4 1/2 | 3 3/4 | 5 7/8 | 6 3/4 | 16 3/4 | 2 1/2 | 1 3/4 | 18 1/2 | 6 8.0

COUNTY:

STANDARD SIGN G20-2A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew & Raw

SHEET NO:

For State Traffic Engineer

DATE 1/26/2023 PLATE NO. G20-2A.10

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\G202A.dgn

HWY:

PROJECT NO:

PLOT DATE: 26-JAN 2023 8:27

PLOT BY : dotc4c

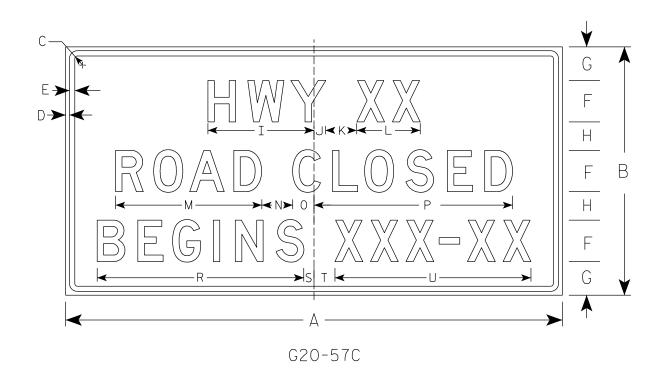
PLOT NAME :

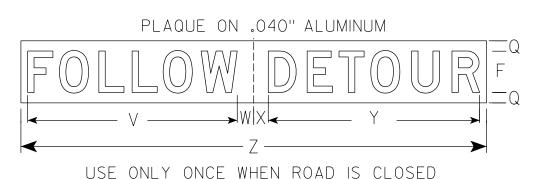
PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42

- 1. Sign is Type II Type F Reflective
- 2. Color:

Background - Orange Message – Black

- 3. Message Series D
- 4. Substitute appropriate numeral and adjust spacing to achieve proper balance.





SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	Х	Y	Z	Area sq. ft.
1 1																											
2																											
3	72	36	1 1/8	1/2	5/8	6	5	4	15 5/8	1 5/8	5	9 1/4	21 1/8	5	2 1/8	29	2	30	1 3/4	3 1/4	28 3/8	40 1/2	2	2	29 ¾	66	18.0
4	96	48	2 1/4	3/4	1	8	6 1/2	5 1/2	20 5/8	2 1/4	6	12 1/4	28 1/4	6	4 1/8	38 3/8	2	39 7/8	2	4	37 1/8	29 ¾	3 1/8	2 1/8	40 1/8	90	32.0
15																											

STANDARD SIGN G20-57C

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

Matther R Rauch tor State Traffic Engineer

DATE <u>9/25/19</u>

PLATE NO. G20-57C.1

Ε

FILE NAME : C:\CAEfiles\Projects\tr_stdplate_G2057C.dgn

HWY:

PROJECT NO:

PLOT DATE: 25-SEPT-2019

PLOT SCALE: \$\$.....plo†scale.....\$\$ WISDOT/CADDS SHEET 42

COUNTY:

PLOT BY : dotctc

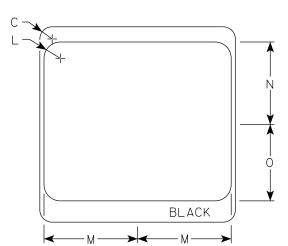
PLOT NAME :

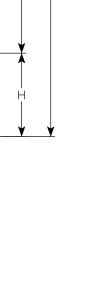
NOTES

- 1. Sign is Type II Type H Reflective
- 2. Color:

Background - White & Black Message – Black

- 3. Message Series see Note 4
- 4. 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.
- 5. Substitute appropriate letters & optically center to achieve proper balance.

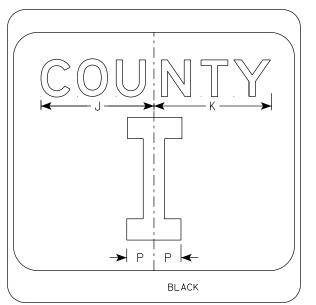


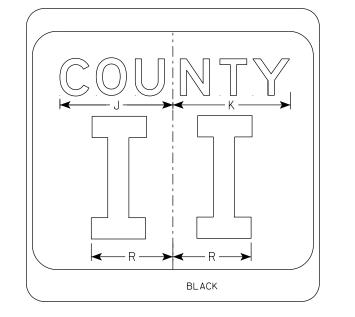


BLACK

HWY:

M1-5A





SIZE	А	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	Χ	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
2M	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 %	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 1/8	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 1/8	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 1/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0

COUNTY:

CTH MARKER M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

DATE 11/8/2022

PLATE NO. M1-5A.9

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M15A.dgn

PROJECT NO:

PLOT DATE: 8-NOV 2022 8:26

PLOT BY : dotc4c

PLOT NAME :

PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42



- 1. Sign is Type II Type H Reflective
- 2. Color:

Background - White Message - Black

- 3. Message Series C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Substitute appropriate numerals to nearest quarter mile and optically adjust spacing to achieve proper balance.

R11-3

** See Note 5

HWY:

В	C	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	Х	Υ	Z	Area sq. ft.
18	1 1/2	3/8	3/8	4	3	2	11 1/4	3	1 1/8	15 3/8	2	3 3/4	8 1/4	5/8		1 3/8	13 1/4	8 3/8	7/8	10 1/2	7 1/8				4.5
30	1 7/8	1/2	5/8	6	5	3 1/2	16 1/8	5	1 3/8	23 1/4	3	6 1/4	13	1 1/8		1 1/8	22 1/8	14	1 1/2	17 1/2	11 1/8				12.5
30	1 1/8	1/2	5/8	6	5	3 1/2	16 1/8	5	1 3/8	23 1/4	3	6 1/4	13 %	1 1/8		1 1/8	22 1/8	14	1 1/2	17 1/2	11 7/8				12.5
)	30	30 1 7/8	18 1 ½ ¾ 30 1 ⅓ ½	18 1 ½ ¾ ¾ ¾ 30 1 ¾ ½ 5%	18 1 ½ 3/8 3/8 4 30 1 7/8 ½ 5/8 6	18 1 ½ 3/8 3/8 4 3 30 1 ½ ½ 5/8 6 5	18 1 ½ 3/8 3/8 4 3 2 30 1 ½ 5/8 6 5 3 ½	18 1 ½ 3/8 3/8 4 3 2 11 ¼ 30 1 ½ 5/8 6 5 3 ½ 16 ¾	18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 30 1 ¾ ½ 5/8 6 5 3 ½ 16 ¾ 5	18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ⅓ 30 1 ¾ ½ 5/8 6 5 3 ½ 16 ¾ 5 1 ¾	18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ½ 15 3/8 30 1 ½ 5/8 6 5 3 ½ 16 ½ 5 1 3/8 23 ¼	18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ½ 15 3/8 2 30 1 ¾ ½ 5/8 6 5 3 ½ 16 ¾ 5 1 3/8 23 ¼ 3	18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ⅓ 15 ¾ 15 ¾ 2 3 ¾ 30 1 ¾ ½ 5/8 6 5 3 ½ 16 ¾ 5 1 ¾ 23 ¼ 3 6 ¼	18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ⅓ 15 ¾ 2 3 ¾ 8 ¼ 30 1 ¾ ½ 5/8 6 5 3 ½ 16 ¾ 5 1 ¾ 23 ¼ 3 6 ¼ 13 ¾	18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ⅓ 15 ¾ 2 3 ¾ 8 ¼ 5/8 30 1 ¾ ½ 5/8 6 5 3 ½ 16 ¾ 5 1 ¾ 23 ¼ 3 6 ¼ 13 ½ 1 ½	18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ⅓ 15 ¾ 2 3 ¾ 8 ¼ 5/8 30 1 ¾ ½ 5/8 6 5 3 ½ 16 ¾ 5 1 ¾ 23 ¼ 3 6 ¼ 13 ¾ 1 ½	18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ⅓ 15 ¾ 2 3 ¾ 8 ¼ 5/8 1 ¾ 30 1 ¾ ½ 5/8 6 5 3 ½ 16 ¾ 5 1 ¾ 23 ¼ 3 6 ¼ 13 ½ 1 ½	18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ⅓8 15 ¾8 2 3 ¾4 8 ¼4 5/8 1 ¾8 13 ¼4 30 1 ¾8 ½ 5/8 6 5 3 ½ 16 ¾8 5 1 ¾8 23 ¼4 3 6 ¼4 13 ½8 1 ⅓8 1 ¾8 22 ⅓8	18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ⅓8 15 ¾8 2 3 ¾4 8 ¼4 5/8 1 ¾8 13 ¼4 8 ¾8 30 1 ¾8 ½ 5/8 6 5 3 ½ 16 ¾8 5 1 ¾8 23 ¼4 3 6 ¼4 13 ½8 1 ⅓8 1 ¾8 12 ½8 14	18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ⅓8 15 ¾8 2 3 ¾4 8 ¼4 5/8 1 ¾8 13 ¼4 8 ¾8 ½8 30 1 ¾8 ½ 5/8 6 5 3 ½ 16 ¾8 5 1 ¾8 23 ¼4 3 6 ¼4 13 ½8 1 ⅓8 11 ¾8 22 ⅓8 14 1 ½2	18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ⅓8 15 ¾8 2 3 ¾4 8 ¼4 5/8 1 ¾8 13 ¼4 8 ¾8 ¼8 10 ½ 30 1 ¾8 ½ 5/8 6 5 3 ½ 16 ¾8 5 1 ¾8 23 ¼4 3 6 ¼4 13 ½8 1 ⅓8 1 ¾8 12 ½8 14 1 ½2 17 ½2	18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ⅓ 15 ¾ 2 3 ¾ 8 ¼ 5/8 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ½ 1 ¼ 1 ¼ 1 ¼ 1 ½ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ¼ <t< td=""><td>18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ⅓ 15 ¾ 2 3 ¾ 8 ¼ 5/8 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ½ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ <t< td=""><td>18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ⅓ 15 ¾ 2 3 ¾ 8 ¼ 5/8 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¼ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ <t< td=""><td>18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ⅓ 15 ¾ 2 3 ¾ 8 ¼ 5/8 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ <t< td=""></t<></td></t<></td></t<></td></t<>	18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ⅓ 15 ¾ 2 3 ¾ 8 ¼ 5/8 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ½ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ <t< td=""><td>18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ⅓ 15 ¾ 2 3 ¾ 8 ¼ 5/8 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¼ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ <t< td=""><td>18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ⅓ 15 ¾ 2 3 ¾ 8 ¼ 5/8 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ <t< td=""></t<></td></t<></td></t<>	18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ⅓ 15 ¾ 2 3 ¾ 8 ¼ 5/8 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¼ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ <t< td=""><td>18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ⅓ 15 ¾ 2 3 ¾ 8 ¼ 5/8 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ <t< td=""></t<></td></t<>	18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ⅓ 15 ¾ 2 3 ¾ 8 ¼ 5/8 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ 1 ½ <t< td=""></t<>

COUNTY:

STANDARD SIGN R11-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matther & Rawh

For State Traffic Engineer

SHEET NO:

DATE <u>2/5/24</u> PLATE NO. <u>R11-3.10</u>

Ε

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\R113.DGN

PROJECT NO:

PLOT DATE : 5-FEB 2024 2:30

PLOT BY: mscj9h

PLOT NAME :

PLOT SCALE: \$\$.....plotscale.....\$\$
WISDOT/CADDS SHEET 42

NOTES

- 1. Sign is Type II Type H Reflective
- 2. Color:

Background - White Message - Black

- 3. Message Series C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



K11-2

SIZE	Α	В	С	D	E	F	G	Ι	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	X	Υ	Z	Area sq. ft.
1																											
25	60	30	1 1/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
2M	60	30	1 1/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
3																											
4																											
5																											

COUNTY:

STANDARD SIGN R11 - 4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew K Kaush For State Traffic Engineer

SHEET NO:

DATE 2/5/24

PLATE NO. R11-4.4

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\R114.dgn

HWY:

PROJECT NO:

PLOT DATE : 5-FEB 2024 2:54

PLOT BY: mscj9h

PLOT NAME: PLOT SCALE: \$\$.

PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42

7



- 1. Sign is Type II Type F Reflective
- 2. Color:

Background - Orange Message - Black

- 3. Message Series see note 5
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Lines 1 and 2 are Series D.
 Line 3 is Series D for AHEAD and
 Series C for all other distances.

1
W20-3D
$\begin{array}{c c} \hline & & & \\ \hline $
W20-3B
W20-3G

W20-3A

HWY:

SIZE	А	В	С	D	Е	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	Х	Y Z	Area sq. ft.
1	36		2 1/4	5/8	3/4	5	3 3/8	3 1/2	1 1/8	4	8 3/8	8 1/8	12 1/2	11	9	6	10 1/8	2 1/2	1 1/8	5 5/8	8	1 3/8	4 1/2	3 1/2	10 3/4 1 3/4	9.0
25	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 %	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 %	1 1/8	6	4 5/8	14 3/8 2 3/8	16.0
2M	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 %	12	8	13 1/2	3 3/8	2 %	7 1/2	10 %	1 1/8	6	4 5/8	14 3/8 2 3/8	16.0
3	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14	12	8	13 1/2	3 3/8	2 %	7 1/2	10 %	1 1/8	6	4 5/8	14 3/8 2 3/8	16.0
4	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 %	1 1/8	6	4 5/8	14 3/8 2 3/8	16.0
5	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 1/8	6	4 5/8	14 3/8 2 3/8	16.0

STANDARD SIGN W20-3A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer

DATE 1/10/2024 PLATE NO. W20-3.8

SHEET NO:

HEET NO:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W203.DGN

PROJECT NO:

COUNTY: PLOT DATE: 10-JAN 2024 12:02

PLOT BY : dotc4c

PLOT NAME :



Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov