MARSH AREA

WOODED OR SHRUB AREA

#### FEDERAL PROJECT **NOVEMBER 2021** STATE PROJECT STATE OF WISCONSIN CONTRACT ORDER OF SHEETS 8110-00-78 WISC 2022028 1 Section No. **DEPARTMENT OF TRANSPORTATION** Section No. Typical Sections and Details Estimate of Quantities Section No. Section No. Miscellaneous Quantities PLAN OF PROPOSED IMPROVEMENT Right of Way Plat Section No. Plan and Profile Section No. Section No. Standard Detail Drawings Section No. **CONNORSVILLE - BLOOMER** Computer Earthwork Data **CULVERT C-17-0047** Cross Sections **STH 64** TOTAL SHEETS = 74 **DUNN BEGIN PROJECT** STA 111+91 STATE PROJECT NUMBER X: 170510.2414 8110-00-78 Y: 260244.2267 R-13-W R-12-W **EXISTING CULVERTS** C-17-2354 1280 C-17-2355 ST 490TH 1250TH **END PROJECT** 1250TH AVE STA 116+38 31 X: 170938.8698 Y: 260114.8085 1220TH AVE DESIGN DESIGNATION AADT 2020 = 3900 12110TH AVE A.A.D.T. 2040 = 4400 = 587 D.H.V. D.D. = 61/39 DESIGN SPEED = 60 MPH = XXX.XXX 1190TH AVE CONVENTIONAL SYMBOLS 1170TH A¥E 1160TH AVE GRADE LINE CORPORATE LIMITS ST ORIGINAL GROUND PROPERTY LINE MARSH OR ROCK PROFILE LOTTINE (To be noted as such) LIMITED HIGHWAY EASEMENT SPECIAL DITCH AVE STATE OF WISCONSIN EXISTING RIGHT OF WAY GRADE ELEVATION PROPOSED OR NEW R/W LINE DEPARTMENT OF TRANSPORTATION 1130TH AVE SLOPE INTERCEPT CULVERT (Profile View) PREPARED BY UTILITIES NW REGION EAU CLAIRE REFERENCE LINE Surveyor ELECTRIC Designer EXISTING CULVERT FIBER OPTIC Project Manage PROPOSED CULVERT Regional Examiner (Box or Pipe) R-13-W R-12-W SANITARY SEWER COMBUSTIBLE FLUIDS STORM SEWER TELEPHONE

POWER POLE

TELEPHONE POLE

TOTAL NET LENGTH OF CENTERLINE = 0.085 MI

SCALE I

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HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN

COORDINATE REFERENCE SYSTEM (WISCRS) DUNN COUNTY, NAD 83

(2011) IN U.S. SURVEY FEET. POSITIONS SHOWN ARE GRID COORDINATES.

GRID BEARINGS AND GRID DISTANCES, GRID DISTANCES ARE THE SAME AS GROUND DISTANCES. ELEVATIONS ARE REFERENCED TO NAV 88 (2012).

ames Koenig

ATF: 9/2/2021

#### LIST OF STANDARD ABBREVIATIONS

ABUT AC AGG ABUTMENT ACRE AGGREGATE AHEAD **APPROX** APPROXIMATE AEW ASPH APRON ENDWALL ASPHALTTC ADT AVG AZ BK BEG BM AVERAGE DAILY TRAFFIC AVERAGE A7TMLITH BACK BEGIN BENCH MARK CL CONC CENTER LINE CONCRETE CONSTRUCTION CO CTH COUNTY COUNTY TRUNK HIGHWAY X-SEC CROSS SECTION CR CFS CRUSHED CUBIC FEET/SECOND CUBIC YARD CY OR CU YD CULV CULVERT CP DOT DHV CULVERT PIPE DEPARTMENT OF TRANSPORTATION DESIGN HOUR VOLUME

DIA DIAMETER
DD DIRECTIONAL DISTRIBUTION
DISCH OR DIS DISCHARGE
EA EACH
ELECT ELECTRIC
EL OR ELEV ELEVATION
EMB EMBANKMENT
EBS EXCAVATION BELOW SUBGRADE
EXIST EXISTING
FERT FERTILIZE
FE FIELD ENTRANCE

EBS EXCAVATION BELOW SUBGRADE
EXIST EXISTING
FERT FERTILIZE
FE FIELD ENTRANCE
FIN FINISHED
FT FOOT
FL FLOW LINE
GA GAUGE
HORIZ HORIZONTAL
CWT HUNDREDWEIGHT
INL INLET
LT LEFT
LHF LEFT-HAND FORWARD

LIF LEFT HAND FORWARD
LIN LINEAR
LIN FT LINEAR FOOT
LS LUMP SUM
MAX MAXIMUM
MI MILE
MISC MISCELLANEOUS
NE NORTH EAST
NW NORTH WEST
PAV'T PAVEMENT
PC POINT OF CURVATURE
PI POINT OF INNERSECT!
PT POINT OF TANGENCY

PC PI PT POT POINT OF INTERSECTION POINT OF TANGENCY POINT ON TANGENT PRIVATE ENTRANCE PE PROJ PROJECT. RANGE REQUIRED REQ'D RTGHT RT RHF RW RD SHR SL SE STD STD STA SPPA RIGHT-HAND FORWARD RIGHT OF WAY ROAD SHRINKAGE SLOPE SOUTH EAST SOUTH WEST STANDARD

SDD STANDARD DETAIL DRAWINGS
STH STATE TRUNK HIGHWAY
STA STATION
SPPA STRUCTURAL PLATE PIPE ARCH
STRUCT STRUCTURE
SURF SURFACE
TEL TELEPHONE
TN TOWN

JIG UNDERGROUND
/ VELOCITY OR DESIGN SPEED
/C VERTICAL CURVE

#### UTILITIES

COMMUNICATION
MOSAIC TELECOM
DENNIS RUSSETT
401 S. 1ST STREET
P.O. BOX 664
CAMERON, WI 54822-0664
715-458-5378
ctcdennis@mosaictelecom.com

ELECTRIC-DISTRIBUTION
DUNN ENERGY COOPERATIVE
MIKE ANDRASCHKO
N5725 600TH STREET
P.O. BOX 220
MENOMONIE, WI 54751-0220
715-232-6240
mandra@dunnenergy.com

GAS WE ENERGIES STEVEN CHAVERS 104 W. SOUTH STREET RICE LAKE, WI 54868 715-234-9605 (OFFICE) 715-213-4327 (MOBILE) Steven.chavers@we-energies.com 24-HOUR EMERGENCY 800-261-5325

#### WISCONSIN DOT

DEPARTMENT OF TRANSPORTATION NORTHWEST REGION 718 WEST CLAIREMONT AVE EAU CLAIRE WI 54701 ATTN: JIM KOENIG EMAIL:James.Koenig@dot.wi.gov PH:715-838-8391

#### WISCONSIN DNR - LIASON

DEPARTMENT OF NATURAL RESOURCES
WEST CENTRAL REGION
1300 W. CLAIREMONT AVE
EAU CLAIRE, WI 54701
ATTN: AMY LESIK
EMAIL: AmyL.Lesik@Wisconsin.gov
PH: 715-836-6571

### DUNN COUNTY HIGHWAY DEPT.

3303 US HIGHWAY 12 EAST MENOMONIE, WI 54751 PH: (715) 232-2181 SHOP PH: (715) 232-3888



www.DiggersHotline.com

GENERAL NOTES

COORDINATES AND BEARINGS ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), DUNN COUNTY NAD 83(1991).

NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT APPROVAL OF THE ENGINEER.

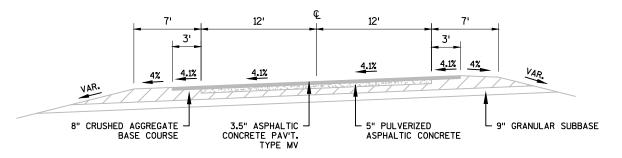
WHEN THE QUANTITY OF THE ITEMS OF BASE AGGREGATE OR HMA PAVEMENT IS MEASURED FOR PAYMENT BY THE TON, THE DEPTH OR THICKNESS OF THE LAYER SHOWN IN THE PLANS IS APPROXIMATE, THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF MATERIAL AS DIRECTED BY THE ENGINEER.

5-INCH HMA PAVEMENT SHALL BE PLACED IN TWO LIFTS. USE A TACK COAT APPLICATION RATE OF 0.05 GAL/SY RETWEEN LIFTS.

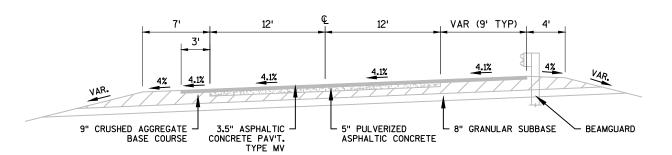
THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLAN ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

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

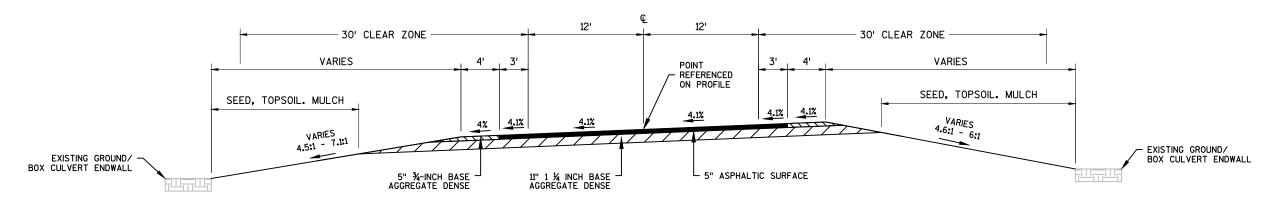
PROJECT NO:8110-00-78 HWY:STH 64 COUNTY:DUNN GENERAL NOTES SHEET



EXISTING TYPICAL SECTION
STH 64
STA 111+91 - STA 113+77.1
STA 115+01.6 - STA 116+38

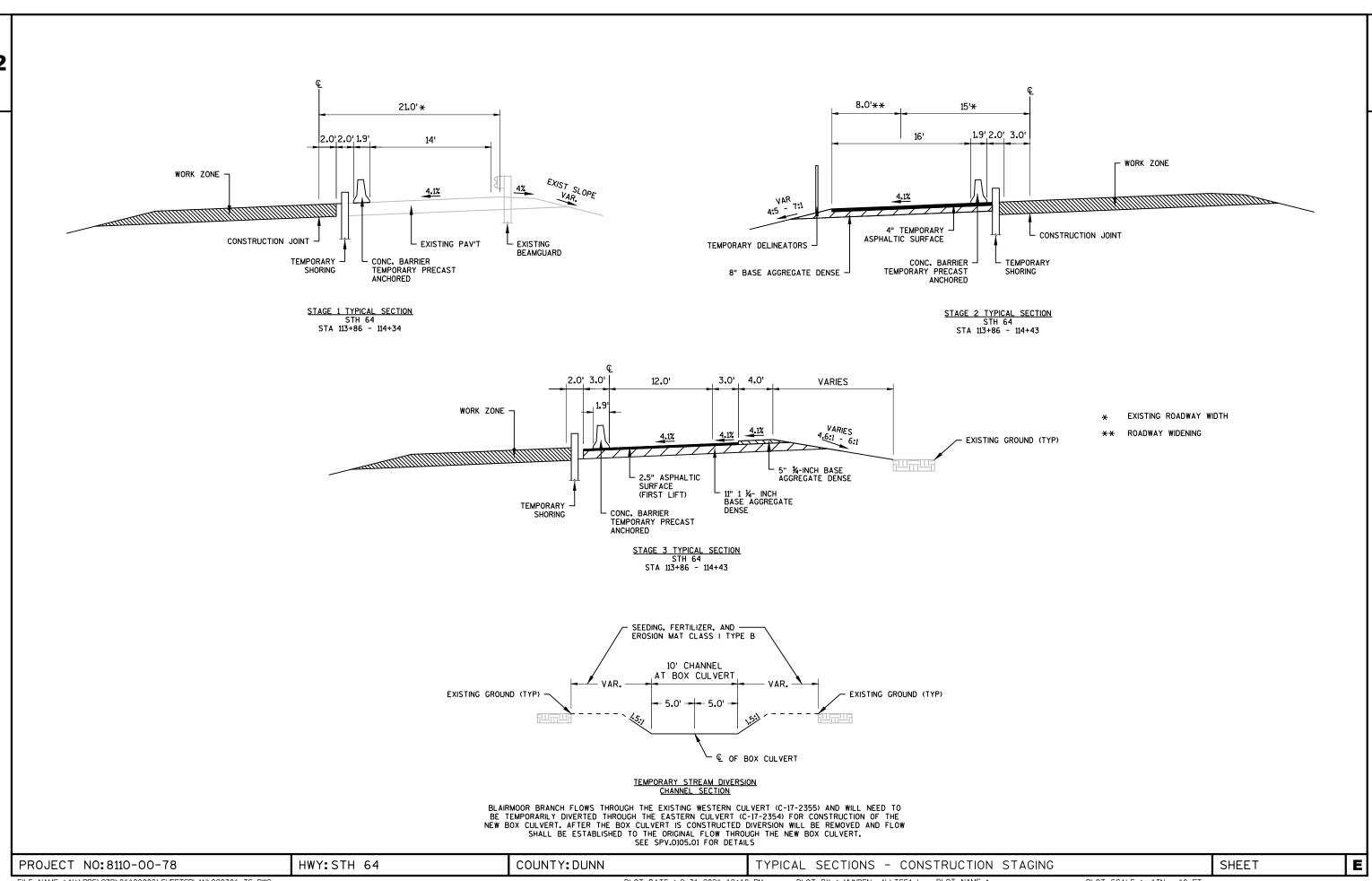


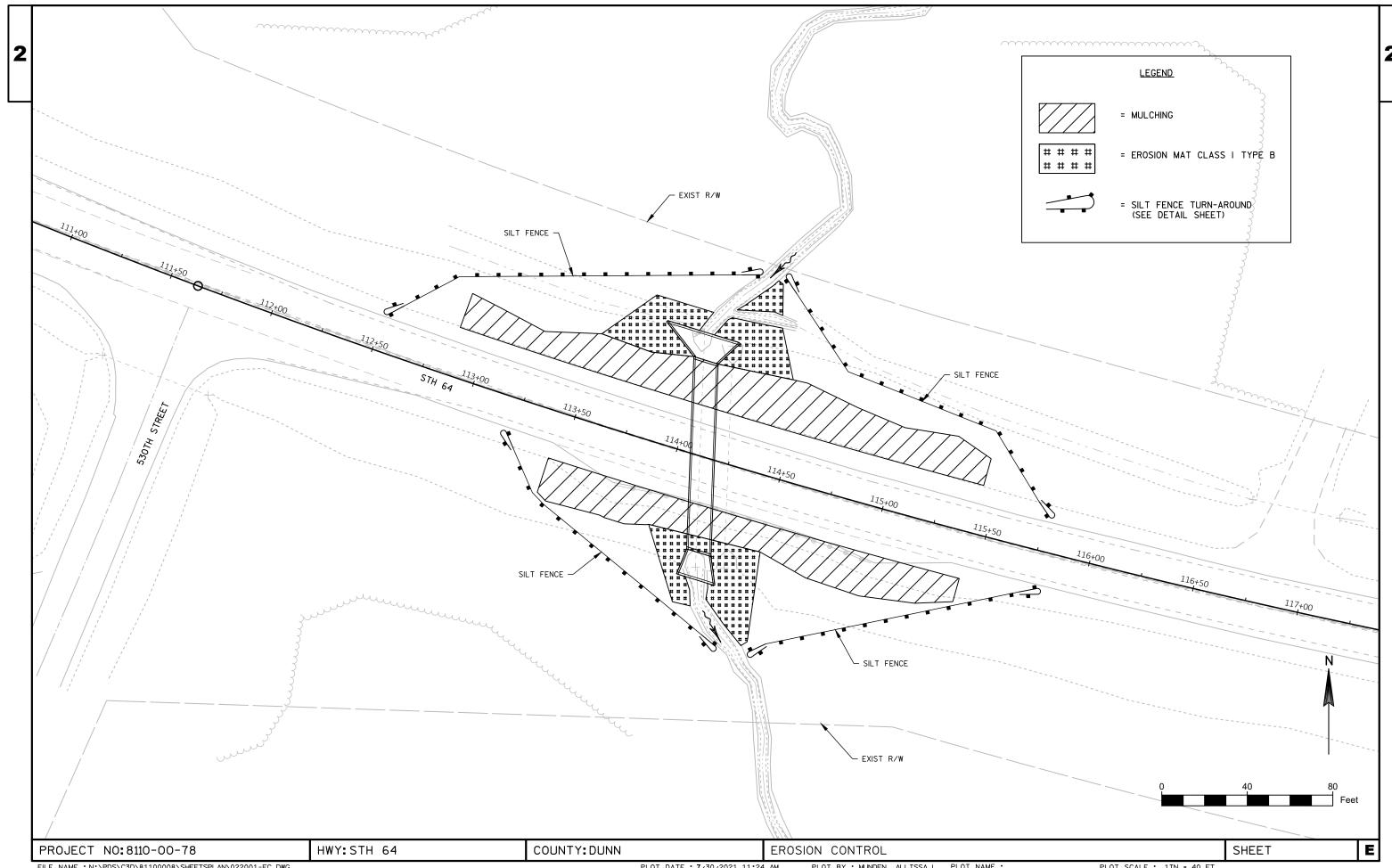
EXISTING TYPICAL SECTION STH 64 STA 113+77.1 - STA 115+01.6



# FINISHED TYPICAL SECTION STH 64

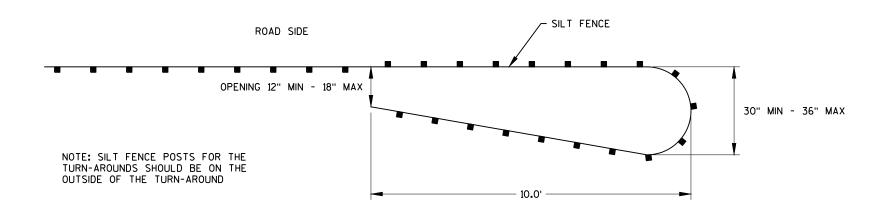
REPAIR LEFT SHOULDER AND SLOPE STA 112+86 - 115+43 REPAIR RIGHT SHOULDER AND SLOPE STA 113+44 - 115+43 FULL PAVEMENT AND SHOULDER REPLACEMENT STA 113+86 - 114+43

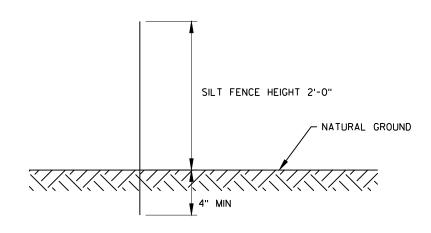




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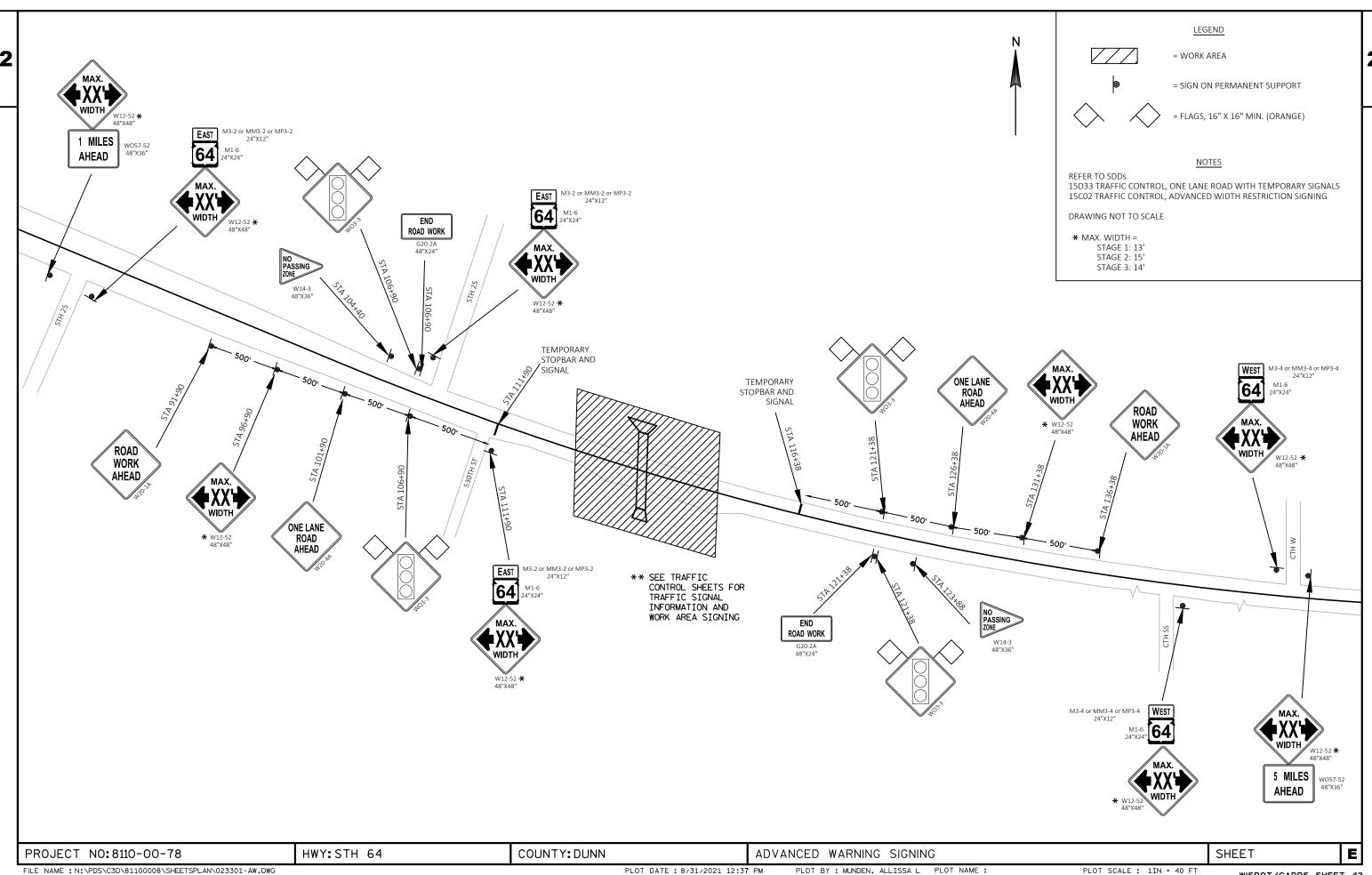


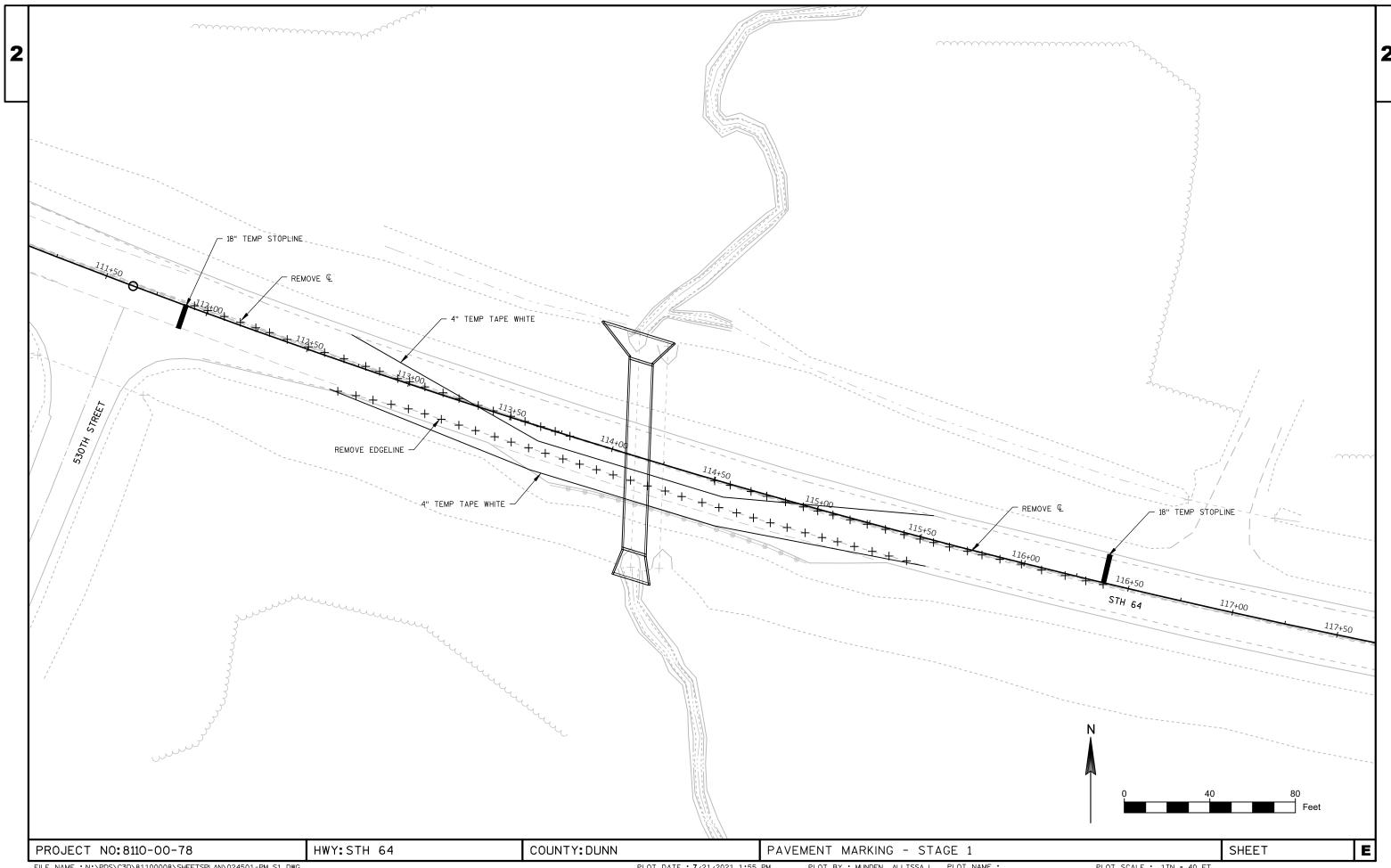


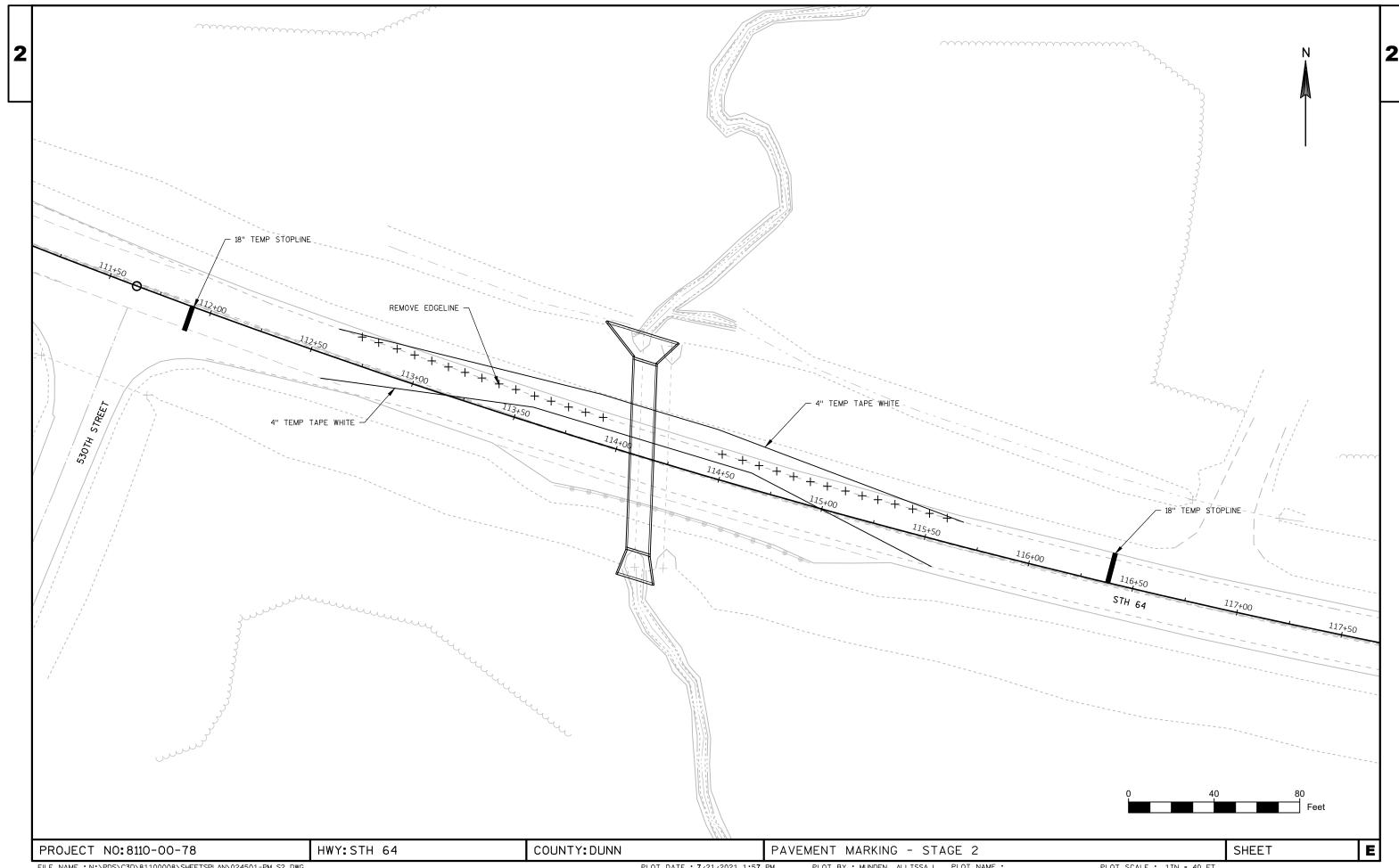
PLAN VIEW

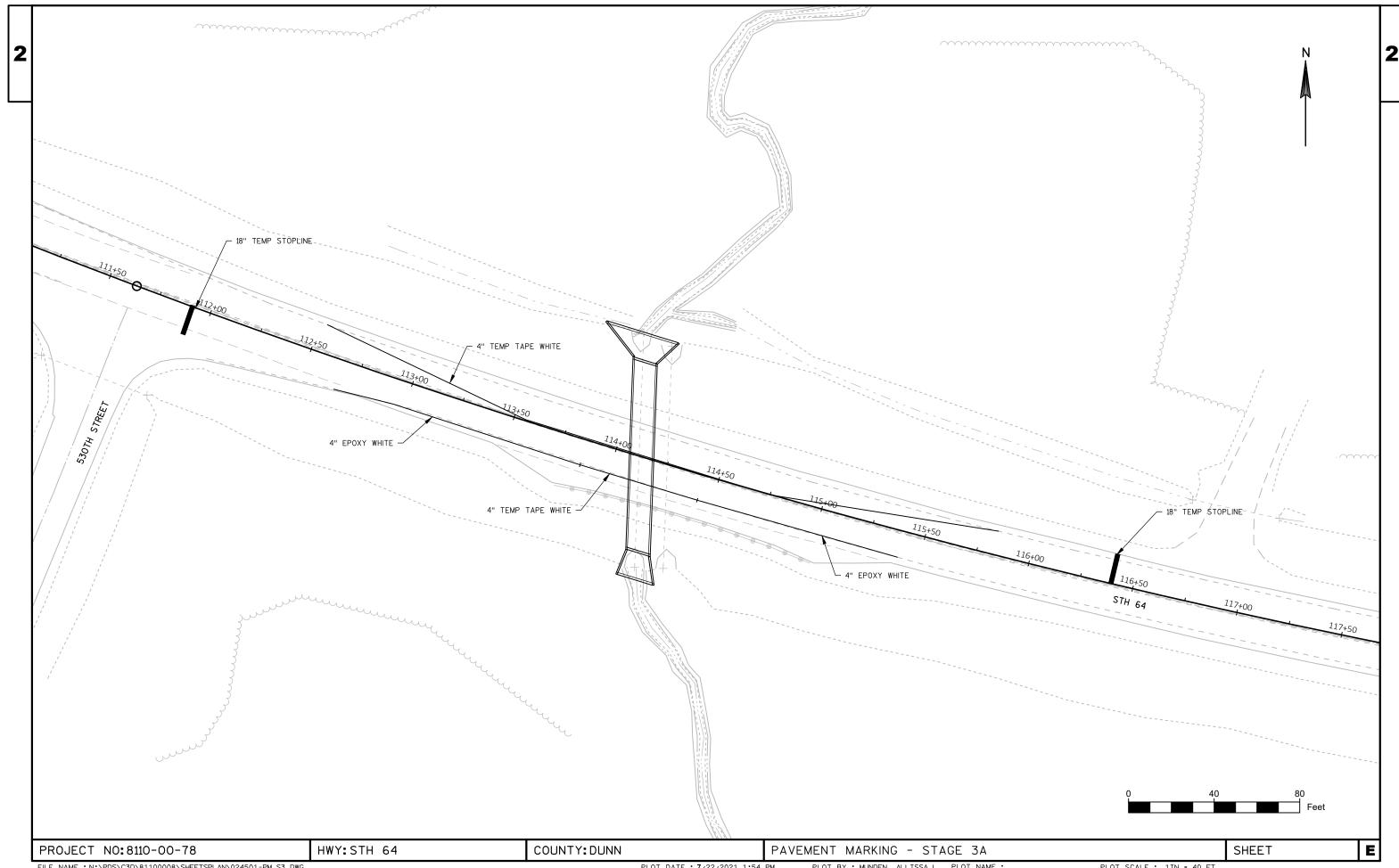
SIDE VIEW

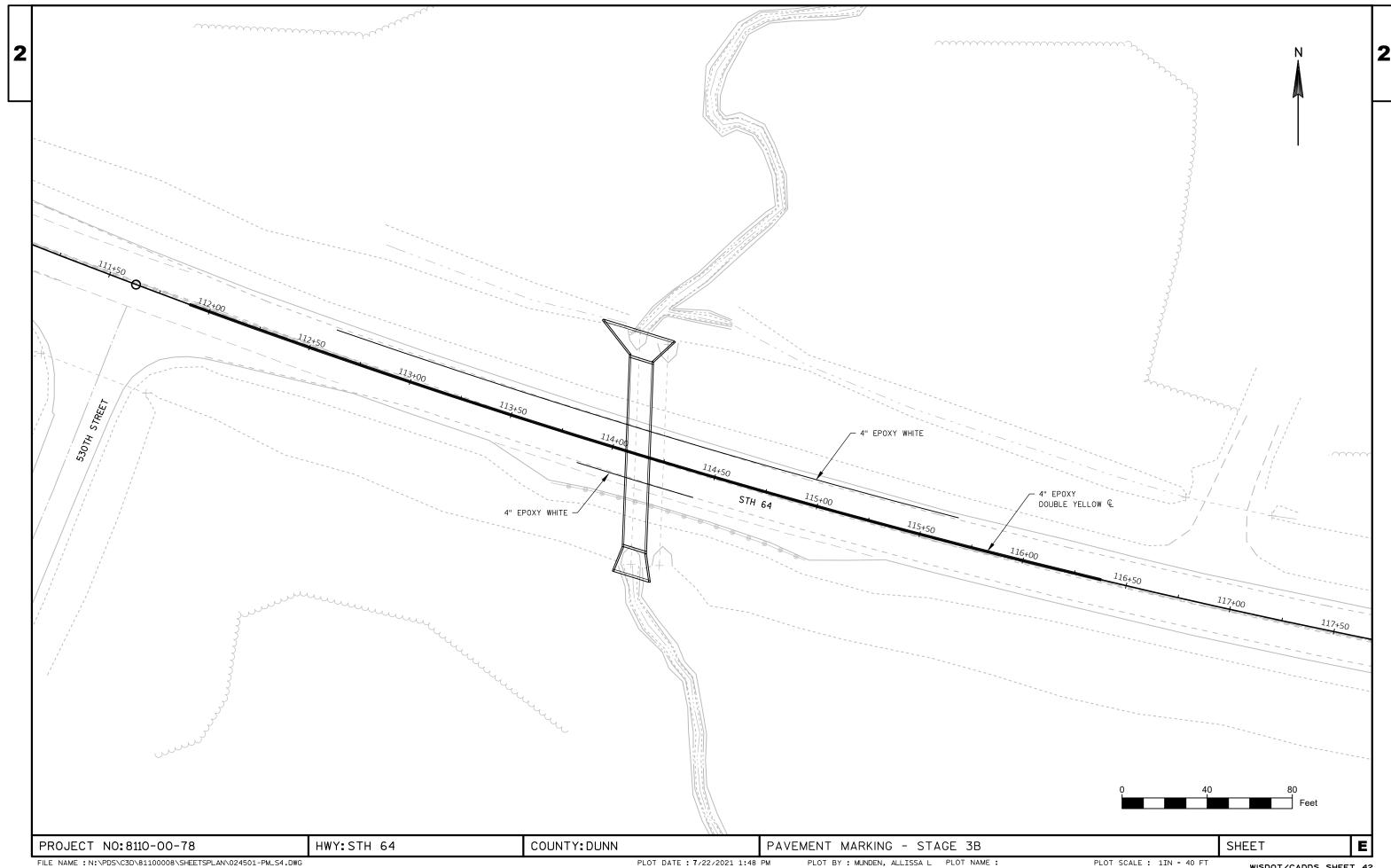
PROJECT NO:8110-00-78 HWY:STH 64 COUNTY:DUNN SILT FENCE TURN-AROUND DETAIL SHEET **E** 

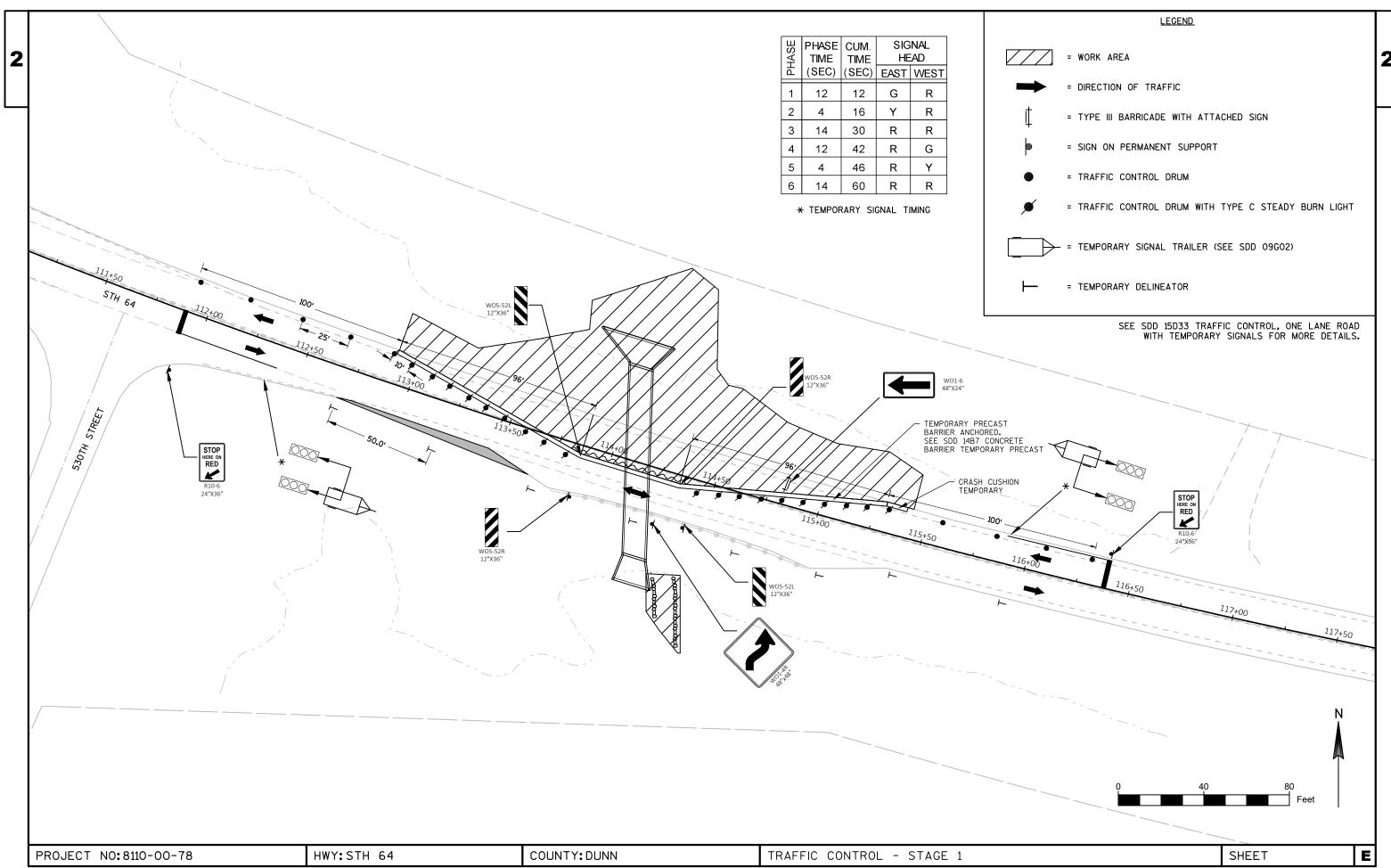


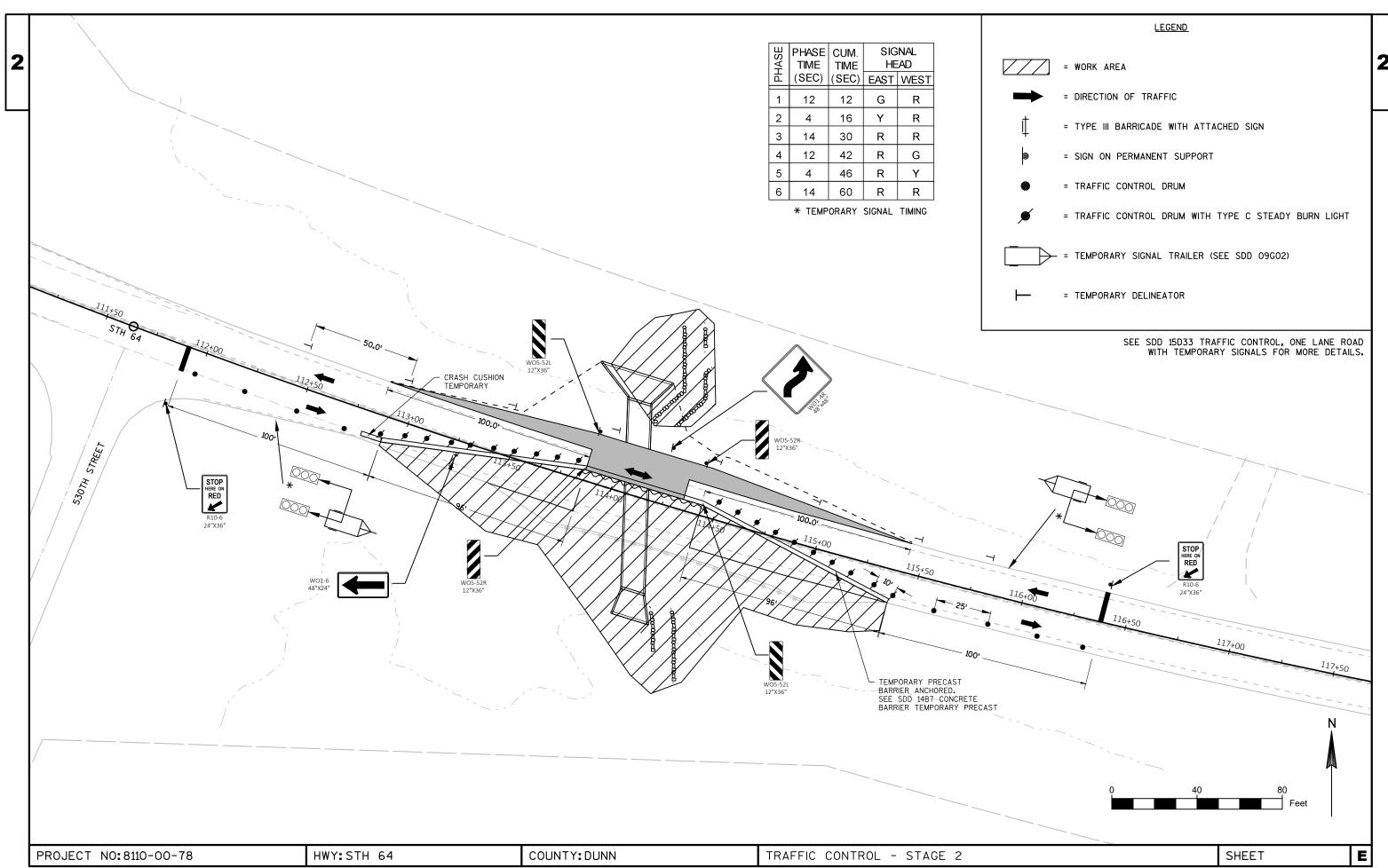


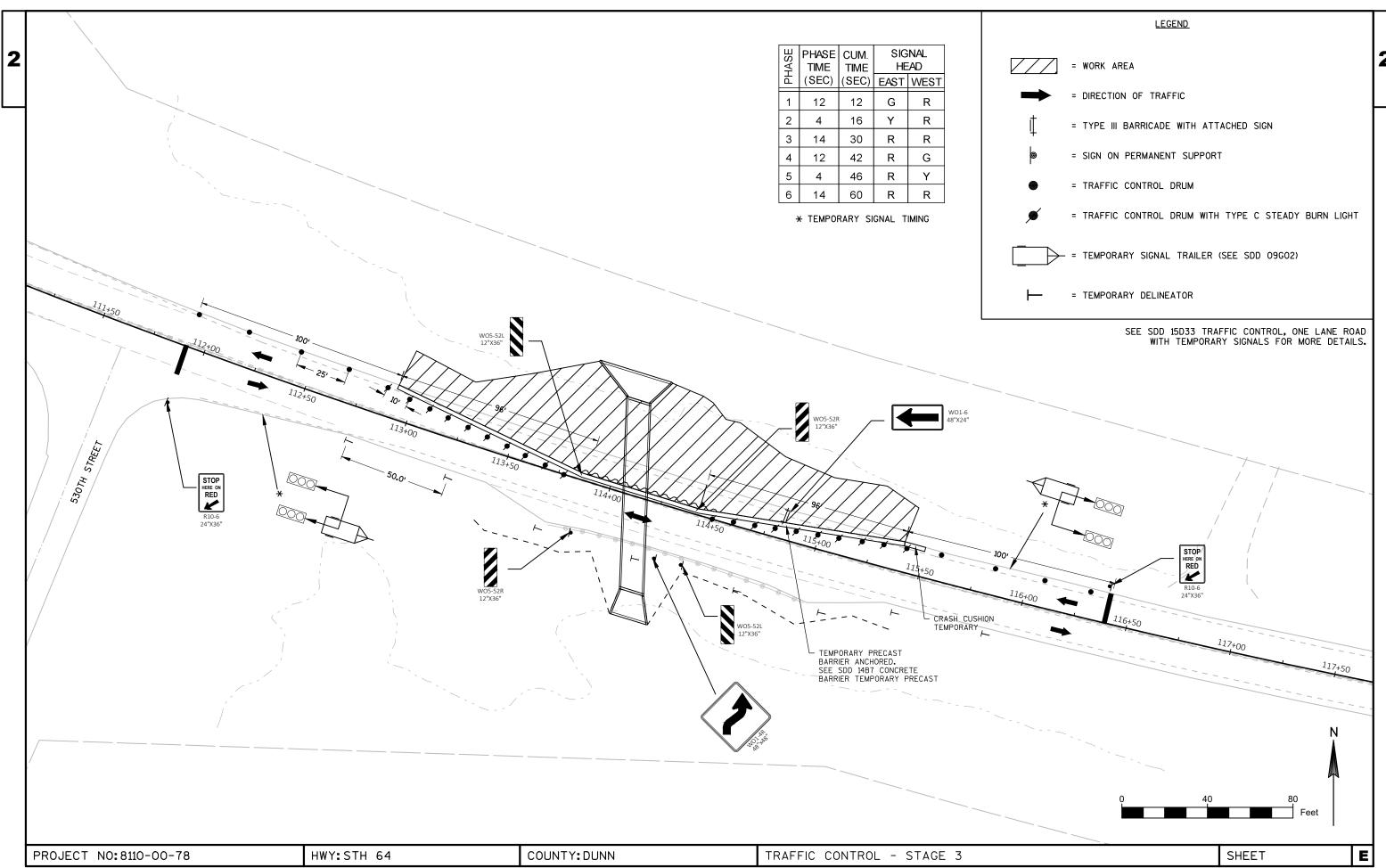


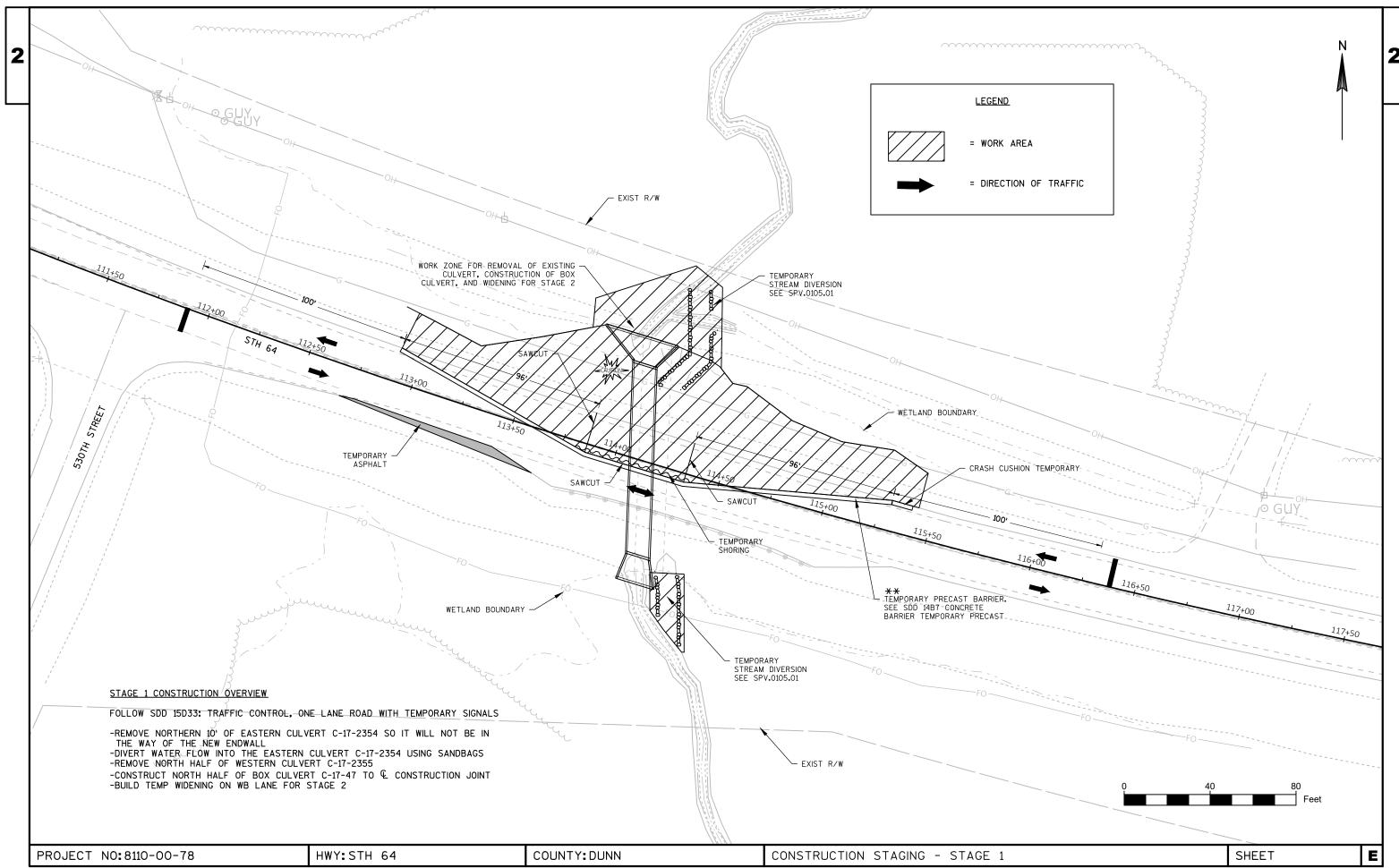


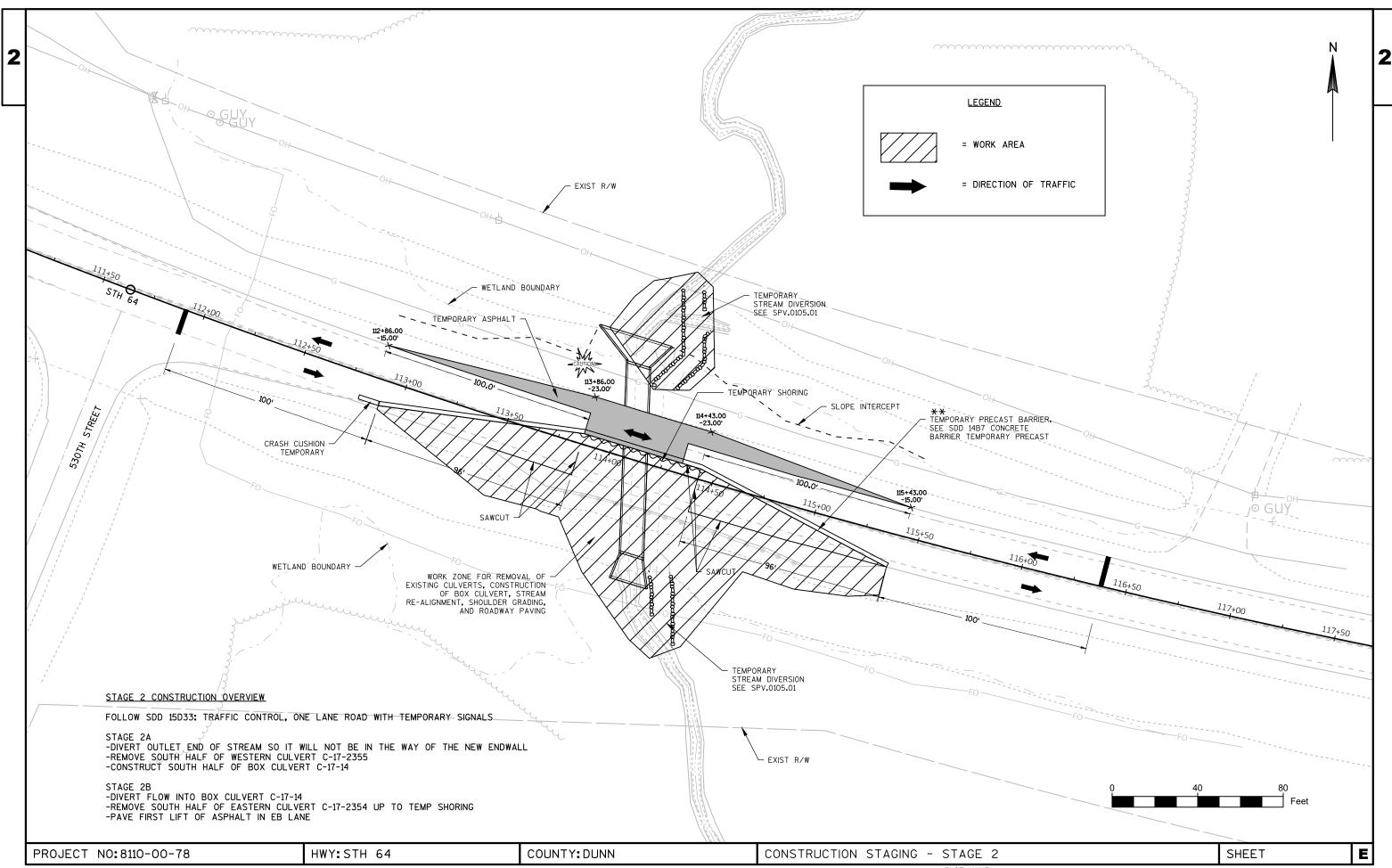


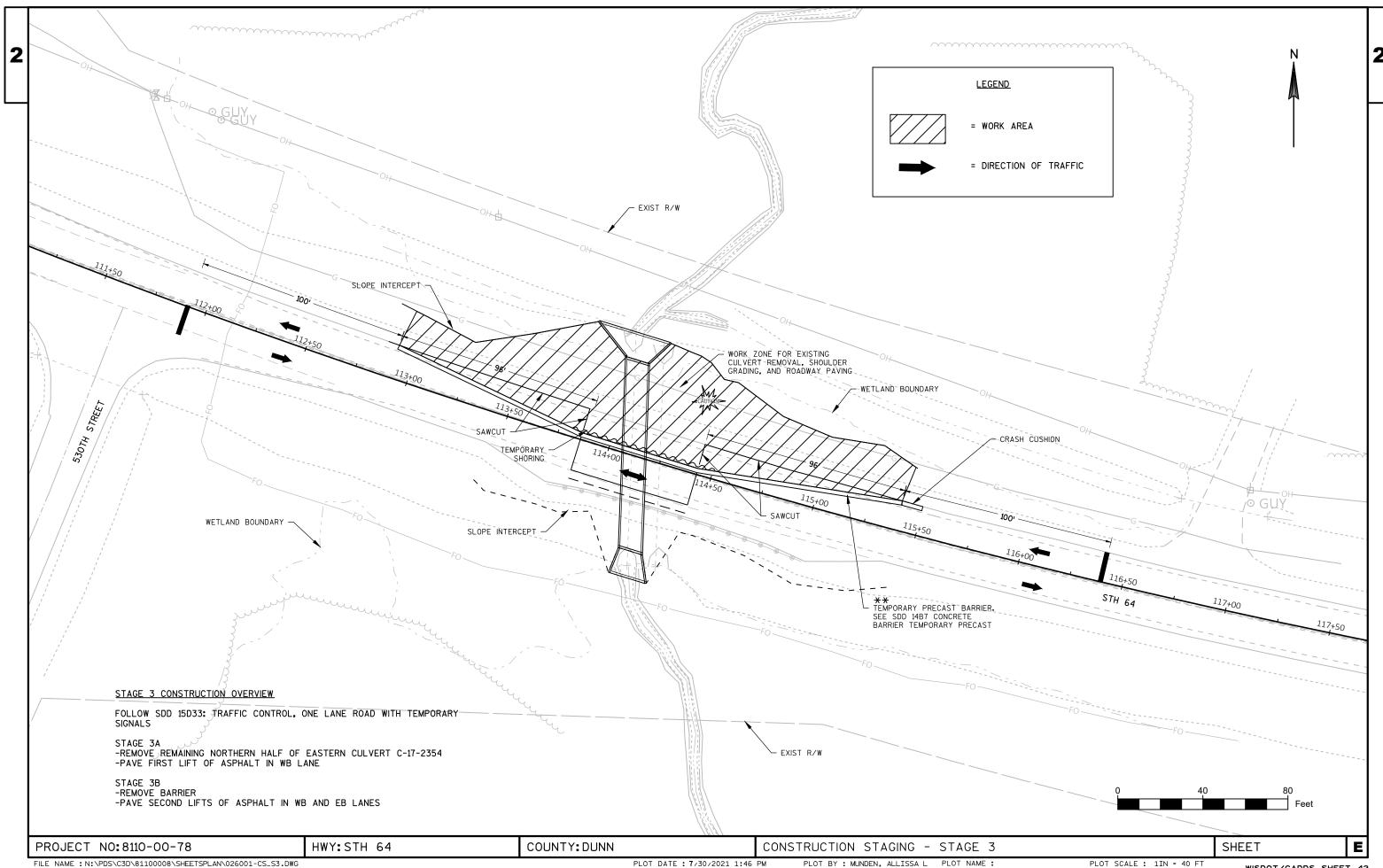












ี 21	10	-00	-78

					8110-00-78	
Line	Item	Item Description	Unit	Total	Qty	
0002	201.0105	Clearing	STA	2.000	2.000	
0004	203.0260	Removing Structure Over Waterway Minimal Debris (structure) 01. C-17-2354/2355	EACH	1.000	1.000	
0006	204.0165	Removing Guardrail	LF	126.000	126.000	
8000	205.0100	Excavation Common	CY	495.000	495.000	
0010	206.2000	Excavation for Structures Culverts (structure) 01. C-17-0047	LS	1.000	1.000	
0012	208.0100	Borrow	CY	612.000	612.000	
0014	210.2500	Backfill Structure Type B	TON	1,286.000	1,286.000	
0016	213.0100	Finishing Roadway (project) 01. 8110-00-78	EACH	1.000	1.000	
0018	305.0110	Base Aggregate Dense 3/4-Inch	TON	75.000	75.000	
0020	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	545.000	545.000	
0022	311.0115	Breaker Run	CY	83.000	83.000	
0024	455.0605	Tack Coat	GAL	20.700	20.700	
0026	465.0105	Asphaltic Surface	TON	55.000	55.000	
0028	465.0125	Asphaltic Surface Temporary	TON	51.000	51.000	
0030	502.4205	Adhesive Anchors No. 5 Bar	EACH	36.000	36.000	
0032	504.0100	Concrete Masonry Culverts	CY	114.000	114.000	
0034	505.0400	Bar Steel Reinforcement HS Structures	LB	22,260.000	22,260.000	
0036	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	1,570.000	1,570.000	
0038	511.1200	Temporary Shoring (structure) 01. C-17-0047	SF	1,100.000	1,100.000	
0040	516.0500	Rubberized Membrane Waterproofing	SY	29.000	29.000	
0042	603.8000	Concrete Barrier Temporary Precast Delivered	LF	260.000	260.000	
0044	603.8125	Concrete Barrier Temporary Precast Installed	LF	780.000	780.000	
0046	603.8500	Anchoring Concrete Barrier Temporary Precast	LF	780.000	780.000	
0048	606.0300	Riprap Heavy	CY	48.000	48.000	
0050	614.0905	Crash Cushions Temporary	EACH	3.000	3.000	
0052	618.0100	Maintenance And Repair of Haul Roads (project) 01. 8110-00-78	EACH	1.000	1.000	
0054	619.1000	Mobilization	EACH	1.000	1.000	
0056	624.0100	Water	MGAL	8.000	8.000	
0058	625.0500	Salvaged Topsoil	SY	1,065.000	1,065.000	
0060	627.0200	Mulching	SY	886.000	886.000	
0062	628.1504	Silt Fence	LF	741.000	741.000	
0064	628.1520	Silt Fence Maintenance Mobilizations Erosion Control	LF EACH	741.000	741.000 4.000	
0066	628.1905			4.000 2.000	2.000	
0068	628.1910 628.2004	Mobilizations Emergency Erosion Control	EACH SY			
0070 0072	629.0210	Erosion Mat Class I Type B Fertilizer Type B	CWT	321.000 0.800	321.000 0.800	
0072	630.0120	Seeding Mixture No. 20	LB	33.000	33.000	
0074	630.0200	Seeding Temporary	LB	19.000	19.000	
0078	630.0500	Seed Water	MGAL	27.000	27.000	
0080	633.1100	Delineators Temporary	EACH	24.000	24.000	
0082	633.5200	Markers Culvert End	EACH	2.000	2.000	
0082	642.5001	Field Office Type B	EACH	1.000	1.000	
0084	643.0300	Traffic Control Drums	DAY	1,988.000	1,988.000	
0088	643.0420	Traffic Control Barricades Type III	DAY	71.000	71.000	
0090	643.0705	Traffic Control Warning Lights Type A	DAY	142.000	142.000	
0090	643.0715	Traffic Control Warning Lights Type C	DAY	1,420.000	1,420.000	
0092	643.0900	Traffic Control Signs	DAY	2,698.000	2,698.000	
0096	643.5000	Traffic Control	EACH	1.000	1.000	
0098	645.0105	Geotextile Type C	SY	270.000	270.000	
5555	5 15.0 100		٠.	0.000	_, 0.000	

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Line	Item	Item Description	Unit	Total	Qty
0100	645.0120	Geotextile Type HR	SY	70.000	70.000
0102	646.1020	Marking Line Epoxy 4-Inch	LF	1,477.000	1,477.000
0104	646.9000	Marking Removal Line 4-Inch	LF	1,331.000	1,331.000
0106	649.0150	Temporary Marking Line Removable Tape 4-Inch	LF	1,578.000	1,578.000
0108	649.0850	Temporary Marking Stop Line Removable Tape 18-Inch	LF	24.000	24.000
0110	650.5000	Construction Staking Base	LF	257.000	257.000
0112	650.6500	Construction Staking Structure Layout (structure) 01. C-17-0047	LS	1.000	1.000
0114	650.9910	Construction Staking Supplemental Control (project) 01. 8110-00-78	LS	1.000	1.000
0116	650.9920	Construction Staking Slope Stakes	LF	257.000	257.000
0118	661.0100	Temporary Traffic Signals for Bridges (structure) C-17-0047	LS	1.000	1.000
0120	690.0150	Sawing Asphalt	LF	479.000	479.000
0122	715.0502	Incentive Strength Concrete Structures	DOL	684.000	684.000
0124	999.2000.S	Installing and Maintaining Bird Deterrent System (Station) 01. 114+18	EACH	1.000	1.000
0126	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	300.000	300.000
0128	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	300.000	300.000
0130	SPV.0060	Special 01. Temporary Stream Diversion Culvert C-17-0047	EACH	1.000	1.000

CLEARING			BASE	AGGREGATE D	ENSE 1 1/4 INCH (2	TON/CY)				TACK CO	<u>AT</u>		
CATEGORY STATION TO STATION	201.0105 LOCATION STA	CATEGORY	STATION TO	O STATION	LOCATION	305.0120 TON	REMARKS	CATEGORY STATI	ON TO STA	ATION LO	CATION	455.0605 GAL	REMARKS
0010 113+00 - 115+00	WB 2	0010 0010 0010	112+86 - 112+86 - 112+86 -	114+43	WIDENING STH 64 EB STH 64 WB	134 161 250	STAGE 1 STAGE 2 STAGE 3	0010 112+ 0010 113+	-86 - 11	5+43 WB V	VIDENING WIDENING AINLINE	1.3 9.9 9.5	STAGE 1 STAGE 1 STAGE 4
REMOVING GUARDI	RAIL				TOTAL 0010	545				TO	TAL 0010	20.7	i .
CATEGORY STATION TO STATION	204.0165 LOCATION LF												
0010 113+77.1 115+01.6	EB 126			<u>ASPHA</u>	TIC SURFACE				TEMPORARY A	ASPHALTIC SURF	FACE (112 LBS/S)	<u>/*IN)</u>	
•	TOTAL 0010 126	CATEGORY S	STATION TO	) STATION	LOCATION	465.0105 TON	REMARKS	CATEGORY STATIO	ON TO STA	TION LOC	CATION	465.0125 TON	REMARKS
205.0100 208.	ROW 0100 :Y REMARKS	0010	113+86 - 113+86 - 113+86 -	114+43 114+43 114+43	MAINLINE EB MAINLINE WB MAINLINE TOTAL 0010	14 14 27	STAGE 2 STAGE 3 STAGE 4	0010 112+6 0010 112+8		5+43 WIE	DENING DENING FAL 0010	6 45 51	STAGE 1 STAGE 2
0010 OVER CULVERT 5 0010 STAGE 3 REMOVAL 90 2 0010 STH 64 AND SHLD 330	BO EW TABLE 2 BY CUT/FILL REPORTS 1 & 2 BY CUT/FILL REPORTS 1 & 2 BY TABLE 1				101AE 0010	55	603 - CONCRET	TE BARRIER TEMPORA	ARY				
0010 TEMP. ASPH REMOVAL 75  TOTAL 0010 495 6	12							DELIVERED	) INSTALLED	ANCHORING 603.85			
BASE AGGREGATE DENSE 3/4 IN	CH (2 TON/CY)	_		CAT	EGORY STATION	TO STATION	LOCATIO		LF	LF	REMARKS		
CATEGORY STATION TO STATION LOCATION	305.0110				0010 112+89.7 0010 112+90.1 0010 112+91.0	- 115+39+3	EB	260 - -	260 260 260	260 260 260	STAGE 1 STAGE 2 STAGE 3		
0010 113+86 - 114+43 SHOULDE 0010 113+86 - 114+43 SHOULDE	R WB 45 STAGE 4						TOTAL 00	260	780	780			
TOTAL 0	010 75						CRASH CUS	SHIONS TEMPORARY					
FINISHING ROADWAY (81	<u>10-00-78)</u> 213.0100			CATEG	ORY LOCATIO	N OFF	614.09 SET EA				TEMP BARRIER		
CATEGORY LOCATION  0010 STH 64				001 001 001	112+90.5	5 11.1	'R 1	STAGE 1 STAGE 2 STAGE 3	CRASH TEST L	EVEL: TL-2 CTION: UNDIRE			
TOTAL 0010	1					TOTAL	-						

				LANDSCAPI	NG								MARKERS CU	LVERT END			
			1001701	SALVAGED TOPSOIL 625.0500	MULCHING 627.0200	TYPE B 628.2004	TYPE B 629.0210	NO. 20 630.0120	SEEDING TEMP 630.0200		<u>-</u>	CATEGORY ST	ATION	OFFSET	633.520 EACH		
ATEGORY	STATION TO	STATION	LOCATION	SY	SY	SY	CWT	LB	LB					39' L FROM CL	1		
0010	113+61.4 -	114+52.8	NORTH ENDWALL			178						0010 1	14+23 3	89' R FROM CL	1		
	114+00 -	114+56.9	SOUTH ENDWALL			143					_			TOTAL 0100	2		
	112+86 -	115+43	NORTH SLOPE	690	513		0.5	19	19								
0010	113+44 -	115+43	SOUTH SLOPE	375	373		0.3	14									
			TOTAL 0100	1065	886	321	0.8	33	19		FIELD OFFIC	E TYPE B			TRAFFIC CON	TROL (8110-0	<u>0-78)</u>
			6	528 - SILT FENCE								642.50					643.5000
			_			E MAINTENA	CF			CATEGOR	RY LOCATIO	ON EACH	<u> </u>	CATEGO	DRY LOC	ATION	EACH
					628.1504					0010	STH 64	. 1		0010	) ST	H 64	1
	CATEGOR	Y STATION	TO STATION	LOCATION	LF	LF		REMARKS									
					<u> </u>						TOTAL 00	010 1			TOTA	AL 0010	1
	0010	112+61.5	- 114+05.4	LT	161	161		-									
	0010	114+33.0	- 115+70.0	LT	157 126	157		-									
	0010 0010	113+27.3 114+64.9	<ul><li>114+35.3</li><li>115+71.5</li></ul>	RT RT	126 121	126 121		-									
	0010		JNDS AT SILT FENCE E		176	176	22' PER T	- URN-AROUNI	)				WATER				
							_							SEED			
				TOTAL 0100	741	741							624.0100	630.0500			
											CATEGORY	LOCATION	MGAL	MGAL	REMA		
										,	0010	STH 64	8	27	USED FOR	LOO IS TO BE	
		MOBILIZATI	ION			628 - MOBILI	ZATIONS ERG	OSION CONTR	<u>OL</u>		0010	3111 04			PLACEMI		
									EMERGENCY			TOTAL 0010	8	27	COMPA	ACTION	
	CATEGORY	LOCATION	619.1000 EACH					628.1905	628.1910								
-	CATEGORI	LOCATION			CATEGO	ORY LOCA	ATION	EACH	EACH								
	0010	STH 64	1		0010	STI	H 64	4	2			643 - TR	AFFIC CONTRO	ı			
		TOTAL 0010	0 1			TOTA	L 0010	4	2			110		_			
						IOIA	_0010	7	_			DRUMS	BARRICADES TYPE III	LIGHTS TYPE A	LIGHTS TYPE C	SIGNS	
												643.0300	643.0420	643.0705	643.0715	643.0900	
						DELL	NEATORS TE	MPORARV		CATEGORY	LOCATION	DAY	DAY	DAY	DAY	DAY	REMARI
MAINT	ENANCE AND	REPAIR OF HA	AUL ROADS (8110-00-0	08)		<u> </u>	HEATONS TE										
			610 0100			0.00		633.1100	DEL 41 DUS	0010	STH 64	868	31	62	620	1178	STAGE
	CATEGORY	LOCATION	618.0100 EACH		CATEG	URY LOC	ATION	EACH	REMARKS	0010	STH 64	868	31	62	620	1178	STAGE
-	CATEGORI	LOCATION	LACIT		001	O RSH	OULDER	8	STAGE 1	0010	STH 64	252	9	18	180	342	STAGE
	0010	STH 64	1		001		OULDER	8	STAGE 1		TOTAL 0010	1988	71	142	1420	2698	=
		TOTAL 004			001		OULDER	8	STAGE 3								
		TOTAL 0010	0 1			TOT	A L 0100	24									
						101/	AL 0100	24									

N:\PDS\C3D\81100008\SHEETSPLAN\030201-MQ.DWG LAYOUT NAME - MQ-2

3

19	STAGE	
48	STAGE 1	

3

PAVEMENT MARKING EPOXY 4-INCH	CONSTRUCTION STAKING BASE	SAWING ASPHALT
646.1020		
CATEGORY STATION TO STATION LOCATION LF REMARKS COLOR	650.5000	690.0150
	CATEGORY STATION TO STATION LOCATION LF	CATEGORY STATION TO STATION LOCATION LF REMARKS
0010 112+66 - 113+86 RIGHT EDGELINE 120 STAGE 3 WHITE	0010 112+86 - 115+43 STH 64 257	0010 113+86 STH 64 WB 19 STAGE 1
0010 114+43 - 115+40 RIGHT EDGELINE 97 STAGE 3 WHITE	0010 112+86 - 115+43 STH 64 257	0010 113+86 STH 64 WB 19 STAGE 1 0010 113+86 - 114+34 4' R OF CL 48 STAGE 1
0010 112+59 - 115+66 LEFT EDGELINE 307 STAGE 4 WHITE	TOTAL 0010 257	0010 113460 - 114434 4 KOFCE 48 STAGE 1
0010 113+86 - 114+43 RIGHT EDGELINE 57 STAGE 4 WHITE		0010 114+34 31H 04 WB 19 31AGE 1
0010 111+90 - 116+38 CENTERLINE 896 STAGE 4 YELLOW		0010 113+44 - 113+86 12' R OF CL 42 STAGE 2
TOTAL 0010		0010 113+86 STH 64 EB 12 STAGE 2
TOTAL 0010 1477	CONSTRUCTION STAKING STRUCTURE LAYOUT (C-17-0047)	0010 114+34 - 114+43 5' L OF CL 9 STAGE 2
	650.6500	0010 114+43 STH 64 EB 21 STAGE 2
MARKING REMOVAL LINE 4-INCH	CATEGORY LOCATION LS	0010 114+43 - 115+38 12' R OF CL 96 STAGE 2
646.9000		
CATEGORY STATION TO STATION LOCATION LF REMARKS	0010 STH 64 1	0010 112+90 - 113+86 12' L OF CL 96 STAGE 3
		0010 113+86 STH 64 WB 10 STAGE 3
0010 111+90 - 113+86 CENTERLINE 392 STAGE 1	TOTAL 0010 1	0010 114+43 STH 64 WB 10 STAGE 3
0010 114+43 - 116+38 CENTERLINE 390 STAGE 1		0010 114+43 - 115+40 12' L OF CL 97 STAGE 3
0010 112+66 - 115+56 RIGHT EDGELINE 290 STAGE 1		
		TOTAL 0010 479
0010 112+59 - 113+86 LEFT EDGELINE 127 STAGE 2	CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (8110-00-78)	
0010 114+34 - 115+66 LEFT EDGELINE 132 STAGE 2	650.9910	TEMPODA DV CTDEAM DIVERCTION CHIVERT C 17 0047
TOTAL 0010 1221	CATEGORY LOCATION LS	TEMPORARY STREAM DIVERSTION CULVERT C-17-0047
TOTAL 0010 1331	<u>CATESONI ECOANION</u> <u>ES</u>	SPV.0060
	0010 STH 64 1	CATEGORY LOCATION EACH
TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH		
649.0850	TOTAL 0010 1	0010 STH 64 1
CATEGORY STATION LOCATION LF		TOTAL 0010 1
		TOTAL WILD
0010 111+90 STH 64 EB 12	CONSTRUCTION STAKING SLOPE STAKES	
0010 116+38 STH 64 WB 12	CONSTRUCTION STAKING SLOPE STAKES	
TOTAL 2010	650.9920	
TOTAL 0010 24	CATEGORY STATION TO STATION LOCATION LF	
TEMPORARY PAVEMENT MARKING TAPE 4-INCH		
	0010 112+86 115+43 STH 64 257	
649.0150	TOTAL 0010 = 257	
CATEGORY STATION TO STATION LOCATION LF REMARKS COLOR	101AL 0010 237	
0010 112+67 - 115+53 LEFT EDGELINE 290 STAGE 1 WHITE		
0010 112+67 - 115+56 RIGHT EDGELINE 292 STAGE 1 WHITE	TEMPORARY TRAFFIC SIGNALS FOR BRIDGES (C-17-0047)	
0010 112.50 115.66 15555051115 222 574.65 2 111175	661 0100	
0010 112+59 115+66 LEFT EDGELINE 306 STAGE 2 WHITE	661.0100	
0010 112+59 - 115+56 RIGHT EDGELINE 302 STAGE 2 WHITE	CATEGORY LOCATION LS	
0010 112+53 - 115+83 LEFT EDGELINE 331 STAGE 3 WHITE	0010 STH 64 1	
0010         112+53         -         115+83         LEFT EDGELINE         331         STAGE 3         WHITE           0010         113+86         114+43         RIGHT EDGELINE         57         STAGE 3         WHITE		
OUTO 113400 114443 VIGILI EDGELINE 3/ 31AGE 3 WHITE	TOTAL 0010 1	
TOTAL 0010 1578		
DROJECT NO. 9110 00 79	COLINITY: DUNN	I CUSET I F
PROJECT NO: 8110-00-78 HWY: STH 64	COUNTY: DUNN MISCELLANEOUS QUANTITIES	SHEET <b>E</b>

FILE NAME : N:\PDS\C3D\81100008\SHEETSPLAN\030201-MQ.DWG LAYOUT NAME - MQ-3

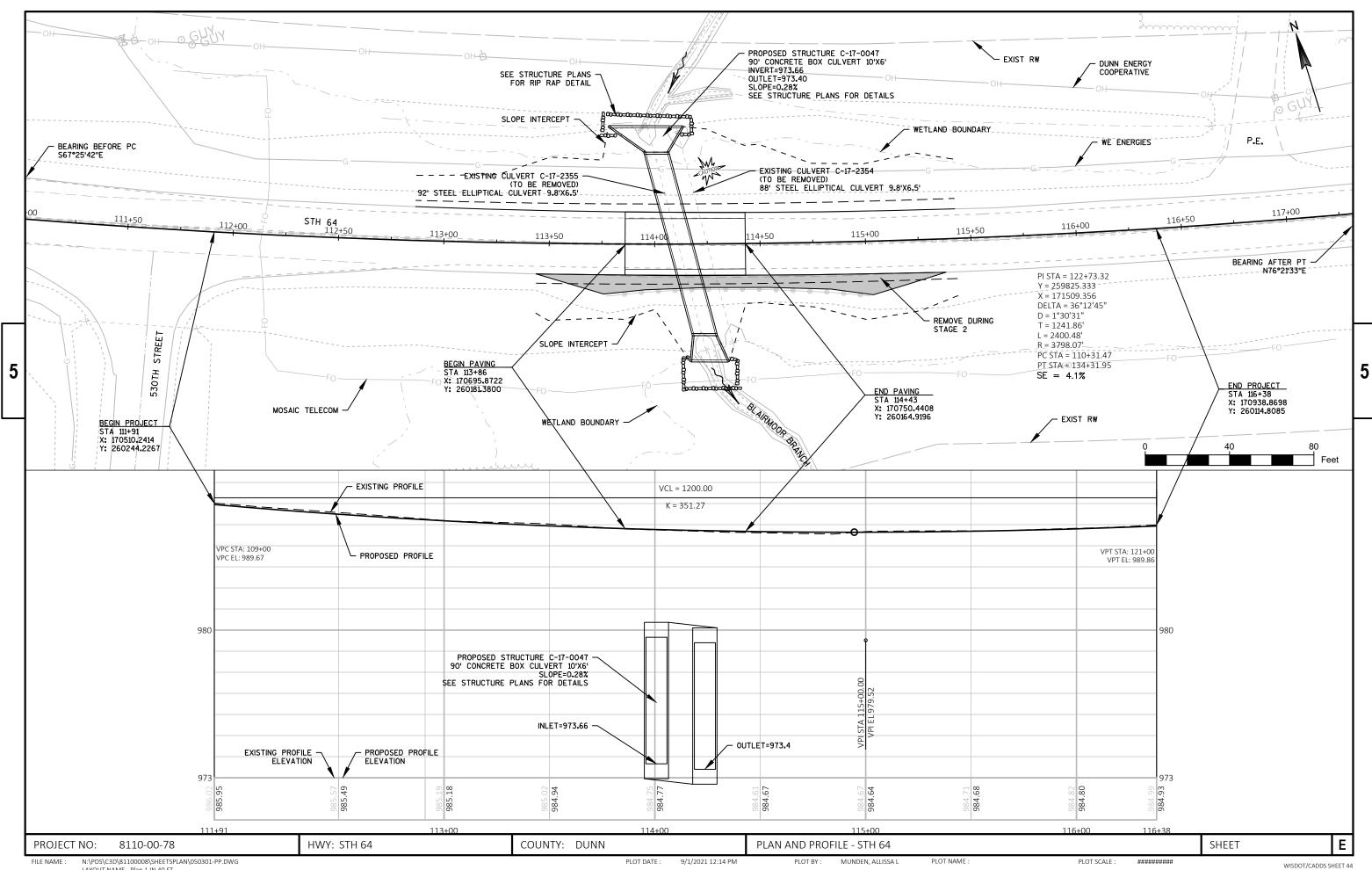
PLOT DATE : 9/7/2021 1:55 PM

PLOT BY: MUNDEN, ALLISSA L

PLOT NAME :

PLOT SCALE : #########

WISDOT/CADDS SHEET 44



# Standard Detail Drawing List

08E09-06	SILT FENCE
09G02-05A	BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION
09G02-05B	BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION
09G02-05C	BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION
12A03-10	NAME PLATE (STRUCTURES)
13C19-03	HMA LONGITUDINAL JOINTS
14B07-15A	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15B	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15C	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15D	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15E	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15F	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15G	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15H	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15I	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B08-02A	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-02B	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-02C	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-02D	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-02E	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15A04-06A	PERMANENT FLEXIBLE DELINEATOR POST
15C02-08F	ADVANCED WIDTH RESTRICTION SIGNING
15C08-20A	LONGITUDINAL MARKING (MAINLINE)
15С11-09В	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-07	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15D33-06	TRAFFIC CONTROL, ONE LANE ROAD WITH TEMPORARY SIGNALS
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS

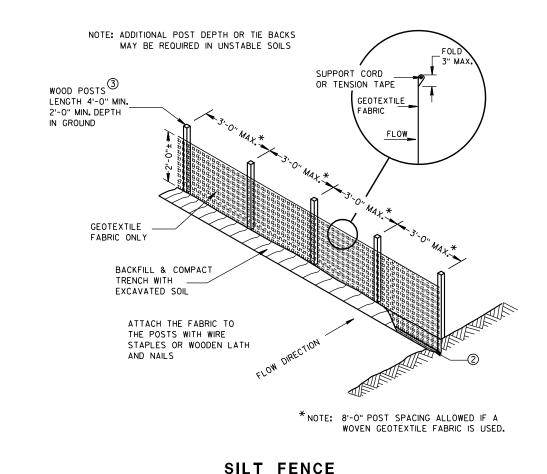
## TYPICAL APPLICATION OF SILT FENCE

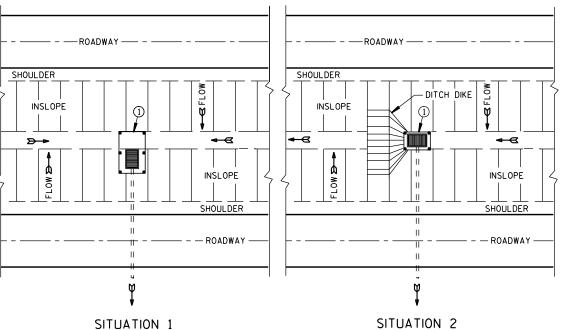
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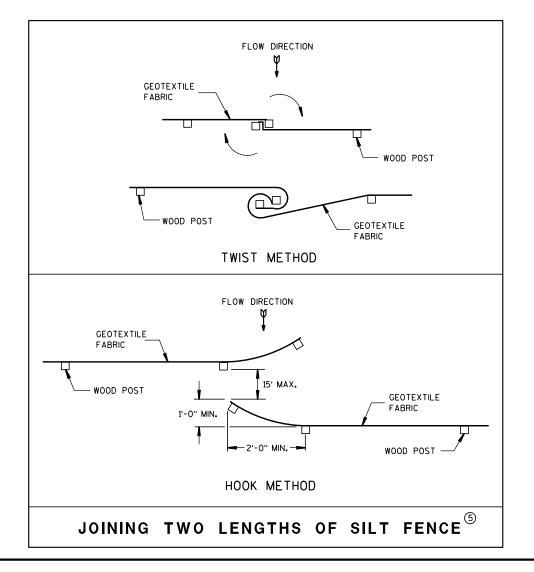
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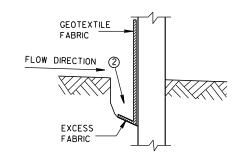
# PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



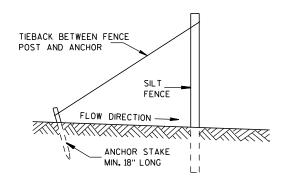
#### GENERAL NOTES

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

- $\bigcirc$  HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
- ② FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- 3 WOOD POSTS SHALL BE A MINIMUM SIZE OF 11/8" X 11/8" OF OAK OR HICKORY.
- 4) SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
- (5) CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



TRENCH DETAIL



SILT FENCE TIE BACK
(WHEN REQUIRED BY THE ENGINEER)

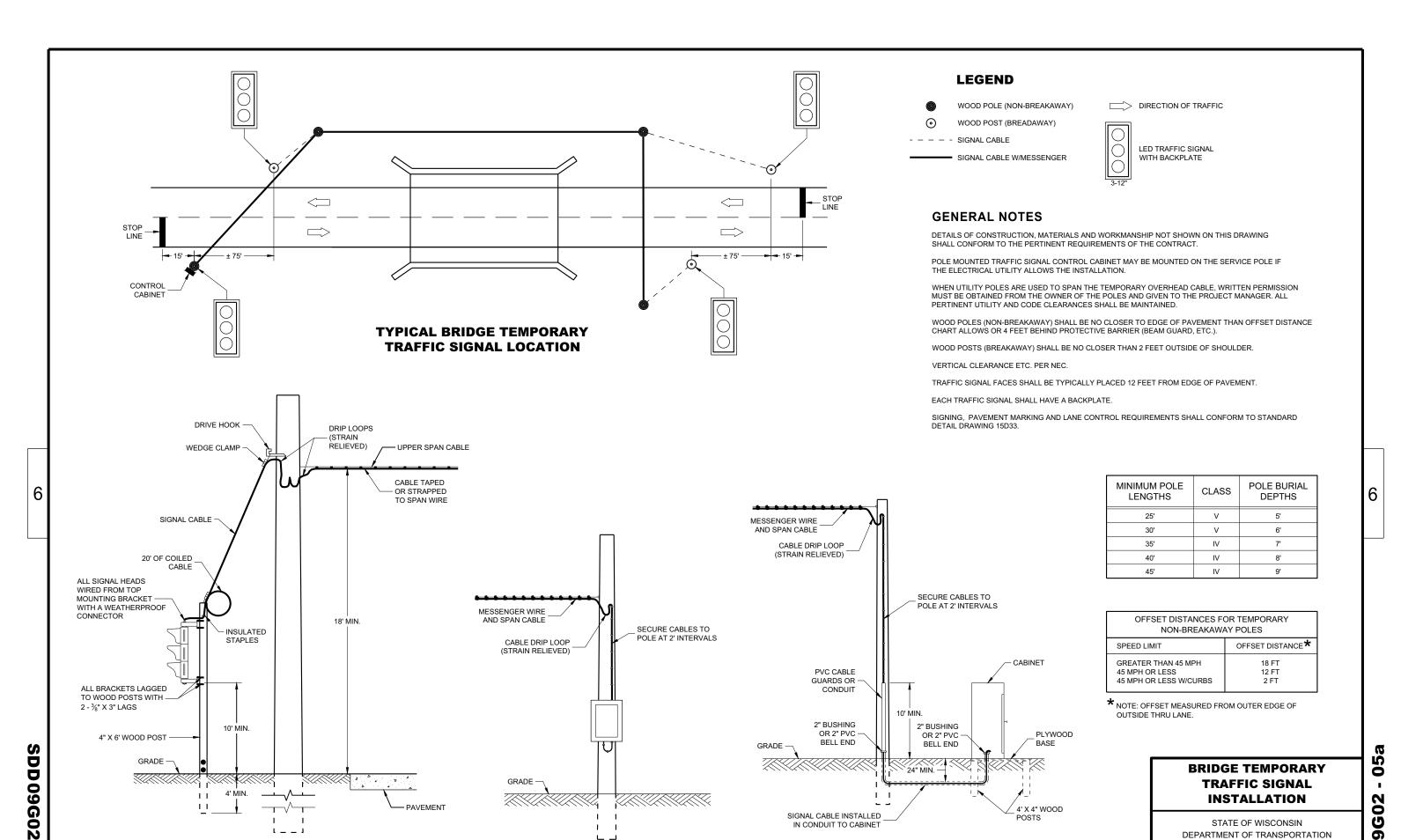
SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

**APPROVED** 4-29-05

/S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER 6

3.D.D. 8 E 9-6



**POLE MOUNT** 

**CABINET INSTALLATION** 

GRADE

- PAVEMENT

4' MIN.

**TYPICAL DROP TO** 

TRAFFIC SIGNAL FACE

### **BRIDGE TEMPORARY** TRAFFIC SIGNAL **INSTALLATION**

0

0

60

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED March 2018

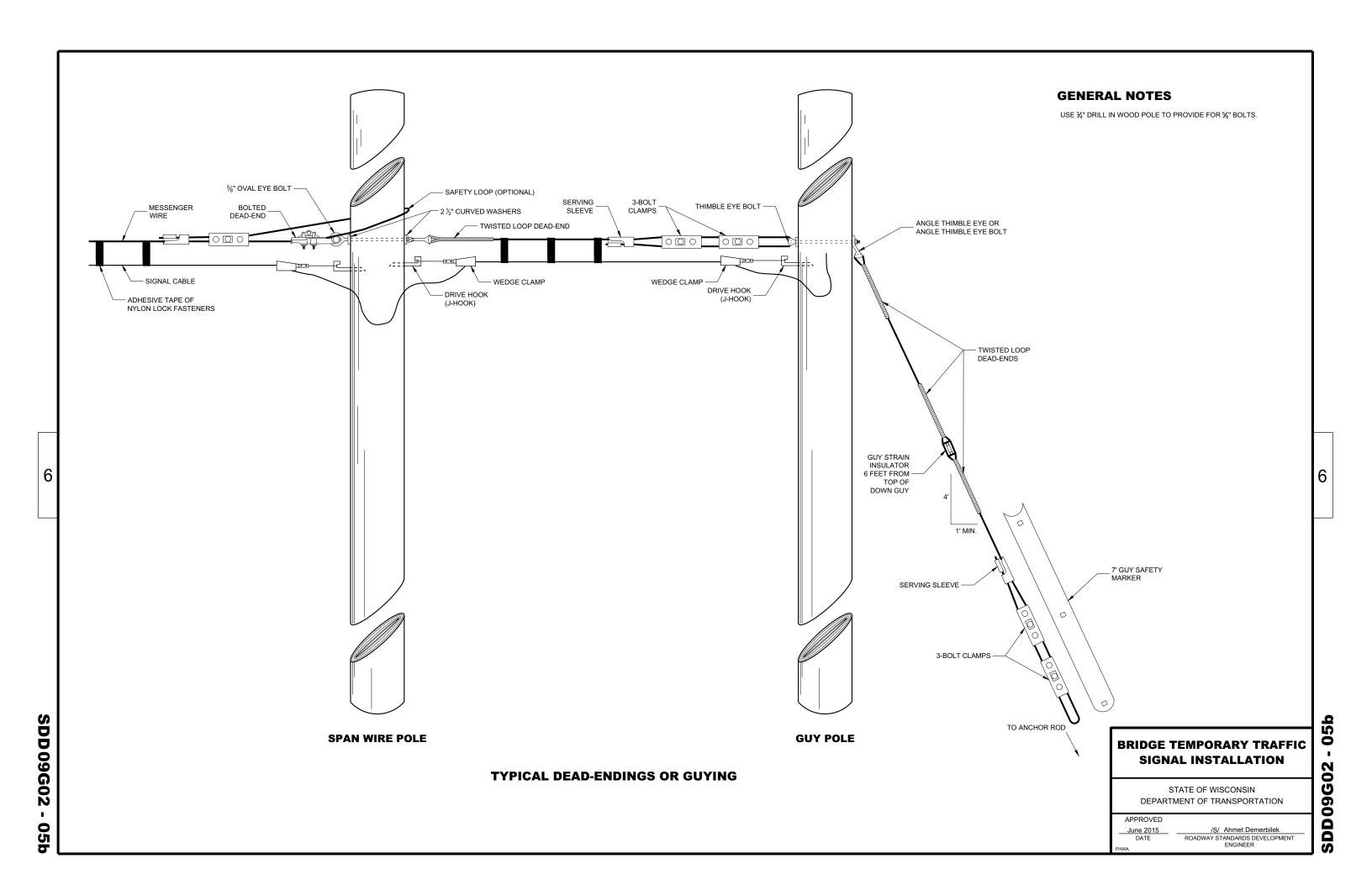
DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER

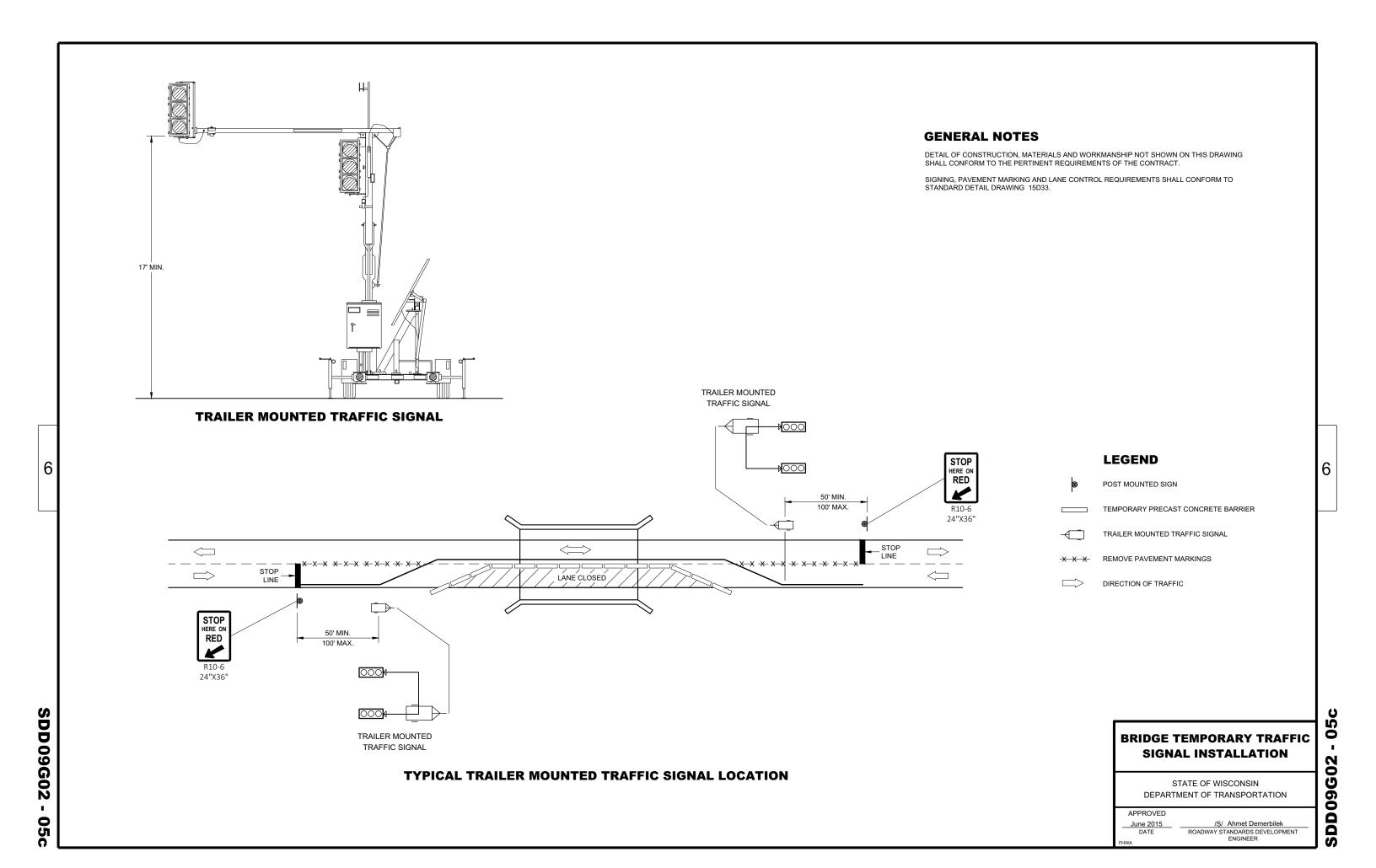
**GROUND MOUNT CABINET INSTALLATION** 

SIGNAL CABLE INSTALLED IN CONDUIT TO CABINET

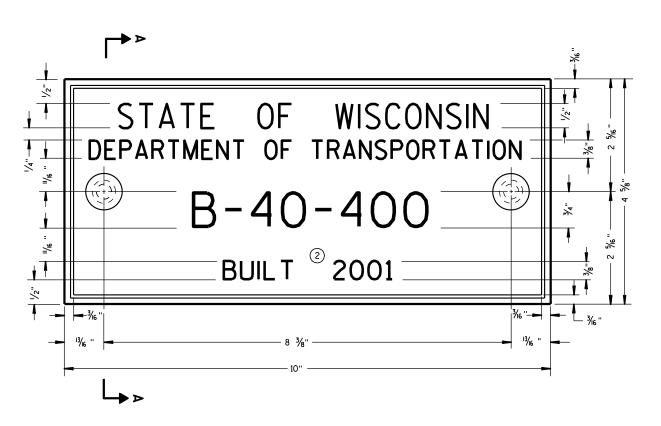
24" MIN.

4' X 4" WOOD









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

 $\begin{array}{c} \text{FOR MULTI-UNIT STRUCTURES} \\ \text{Line 3 above shall read} \\ \text{B = BRIDGE} \\ \text{C = CULVERT} \\ \text{R = RETAINING WALL} \\ \end{array}$ 

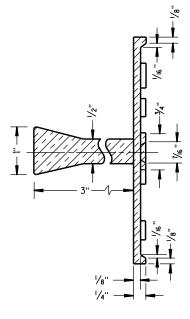
NUMBERING DESIGNATION MULTI-UNIT STRUCTURES

#### **GENERAL NOTES**

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

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

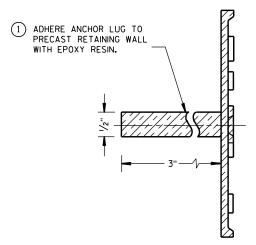
- 1 EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



SPREAD OPEN SO THE TOP OF LUG IS 11/4" WIDE

SECTION A-A

ALTERNATE LUG



ALTERNATE LUG

(FOR ATTACHMENT TO PRECAST STRUCTURES)

# NAME PLATE (STRUCTURES)

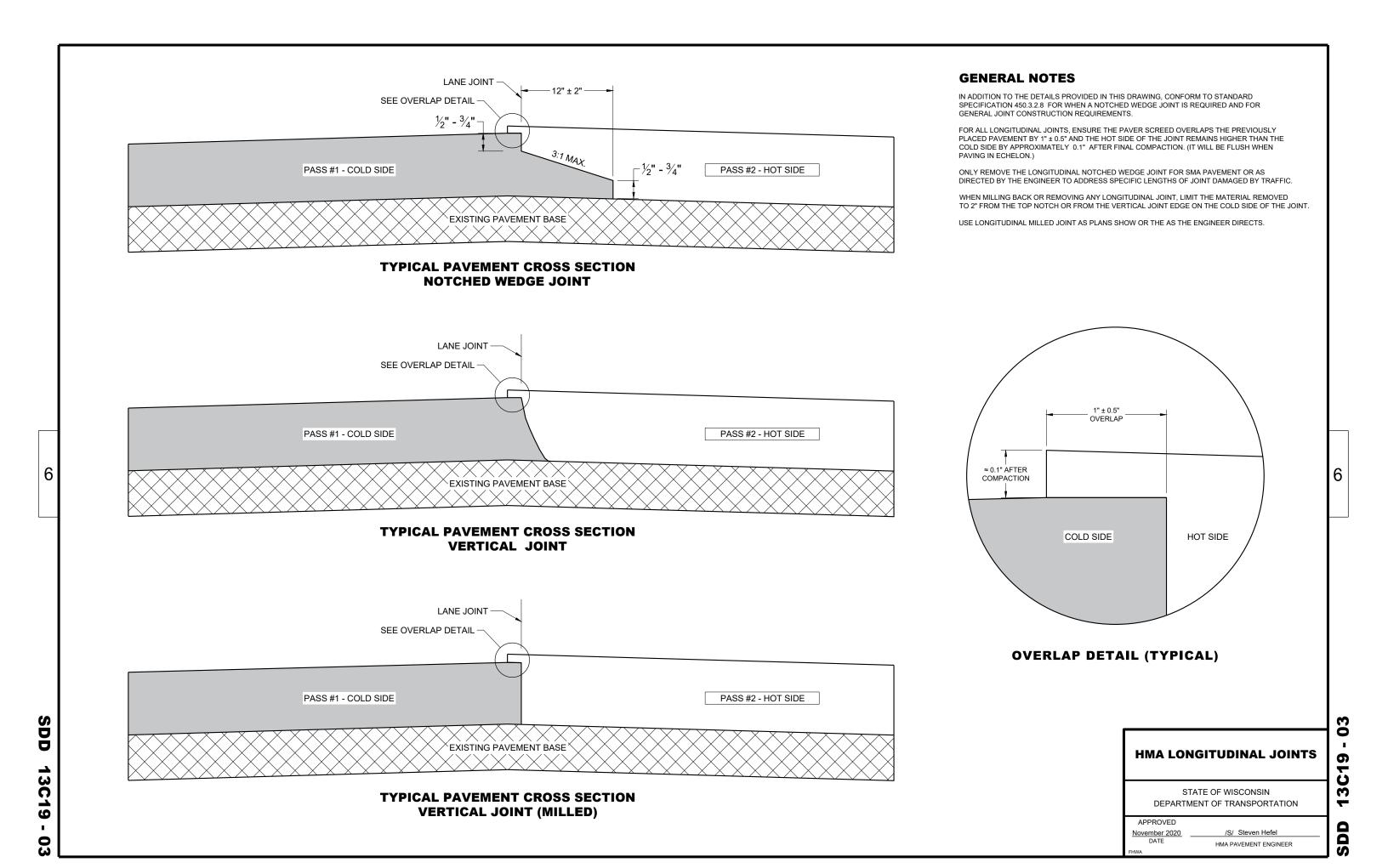
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

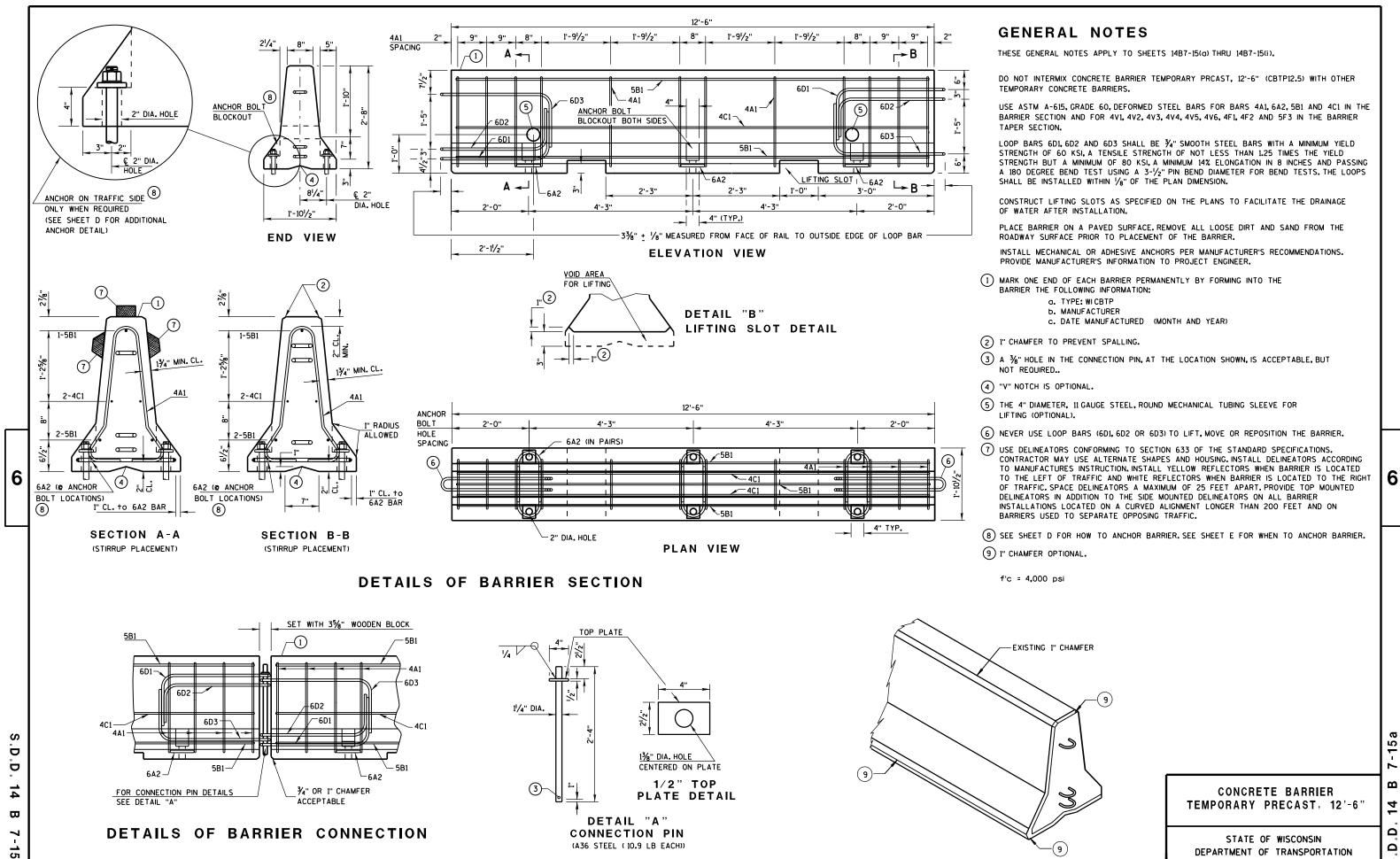
3-10

APPROVED

3/26/IO /S/ Scot Becker

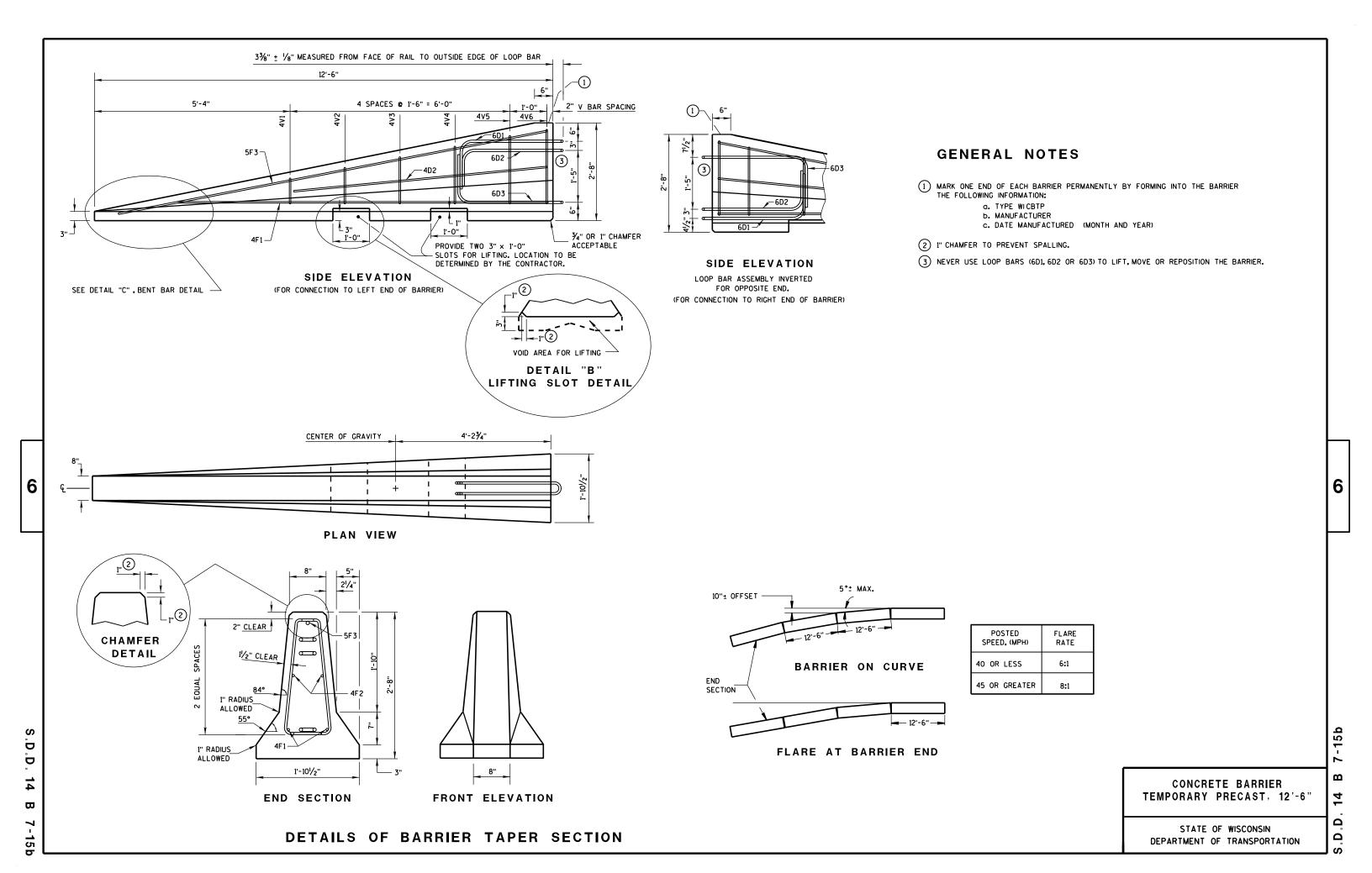
CHIEF STRUCTURAL DEVELOPMENT ENGINEER





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DEPARTMENT OF TRANSPORTATION



BARRIER SECTION

**BILL OF MATERIALS** (PER 12'-6" BARRIER SECTION)

LENGTH

### BARRIER TAPER SECTION BILL OF MATERIALS

(PER 12'-6" BARRIER TAPER SECTION)

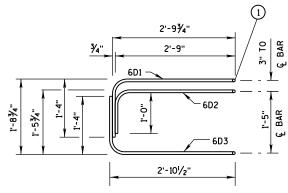
WENTE O BANNEN TALEN SECTION									
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.						
4V1	4	2	1'-11"						
4V2	4	2	2'-2"						
4٧3	4	2	2'-6"						
4V4	4	2	2'-9"						
4V5	4	2	3'-2"						
4V6	4	2	3'-4"						
4F1	4	2	12'-0"						
4F2	4	2	7'-6"						
5F3	5	1	11'-9"						
L	LOOP ASSEMBLY								
6D1	6	1	8'-5"						
6D2	6	1	7'-7"						
6D3	6	1	8'-6"						
•									

2" MIN. CLEAR

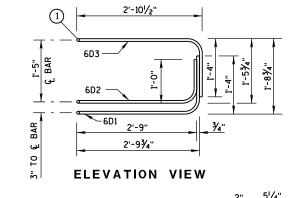
DETAIL "C"

BENT BAR DETAIL

2" MIN. CLEAR

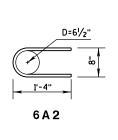


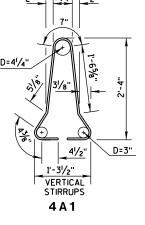












### TAPER BARRIER SECTION

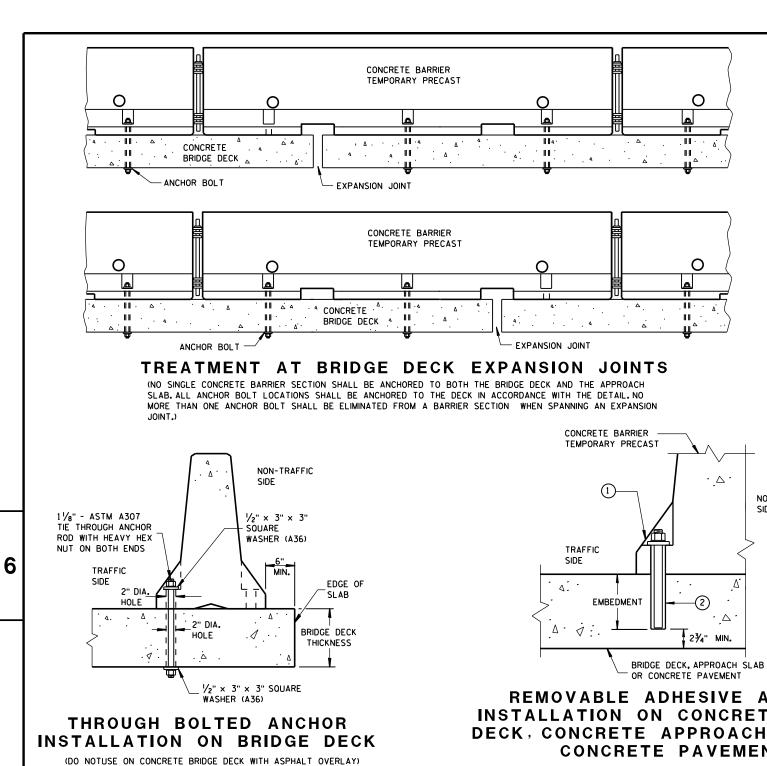
**BARRIER SECTION** 

CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 6

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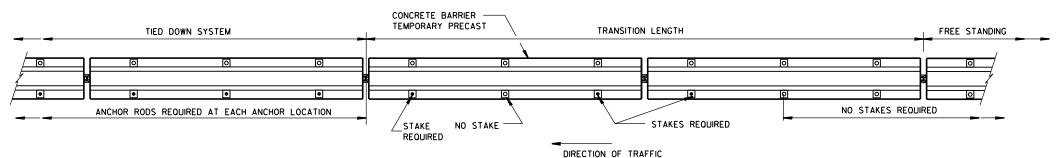
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### REMOVABLE ADHESIVE ANCHOR INSTALLATION ON CONCRETE BRIDGE DECK, CONCRETE APPROACH SLAB, OR **CONCRETE PAVEMENT**

NON-TRAFFIC

(DO NOT USE ON CONCRETE WITH AN ASPHALTIC OVERLAY)



**PLAN VIEW** 

#### FREE STANDING TRANSITION TO TIED-DOWN SYSTEM

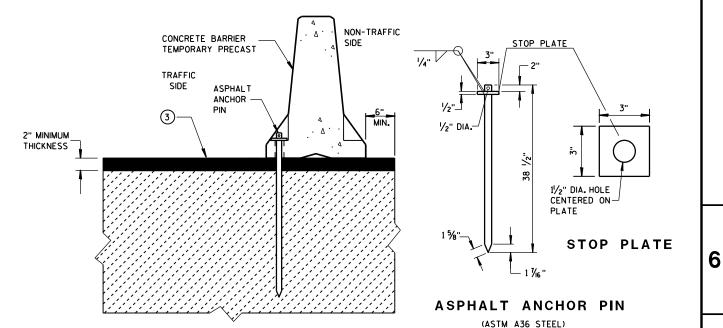
(PLACE TRANSITION IN A TANGENT SECTION OF BARRIER PARALLEL TO THE ROADWAY. IF TRANSITION OCCURS ON STRUCTURAL SLAB, ANCHOR AS SHOWN,)

#### **GENERAL NOTES**

SEE SHEET E FOR WHEN TO ANCHOR. OTHER PARTS OF THE PLAN MAY SHOW ADDITIONAL LOCATIONS REQUIRING ANCHORING.

REMOVE ALL ANCHORS WHEN NO LONGER NEEDED. FILL CONCRETE PAVEMENTS, DECKS AND APPROACH SLABS WITH NON-SHRINK COMMERICAL GROUT FROM THE APPROVED PRODUCT LIST. FILL ASPHALT PAVEMENTS WITH ASTM D6690 TYPE II RUBBERIZED CRACK FILLER.

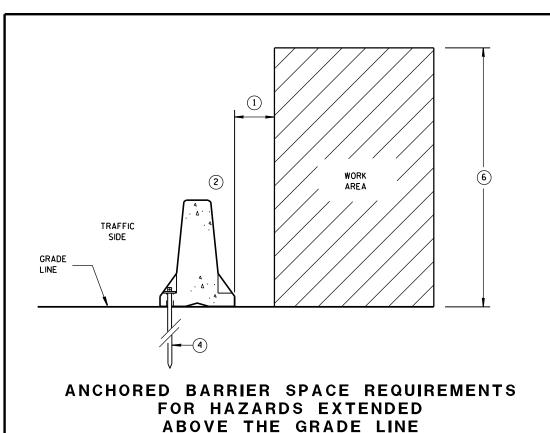
- 1 1/8" DIAMENTER A307 THREADED ROD, 1/2" X 3" X 3" SOUARE PLATE WASHER WITH ASTM A36 STEEL, ASTM A563A HEAVY HEX NUT.
- 2 ADHESIVE ANCHORS WITH A MINIMUM BOND STRENGTH OF 1,800 PSI AND 51/4" EMBEDMENT. SEE 603.2 AND 603.3.1.2 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR MORE INFORMATION ON ADHESIVE ANCHORS.
- (3) ASPHALT SURFACE SHOWN. CONTRACTOR MAY DRILL THROUGH CONCRETE PAVEMENT AND THAN DRIVE ASPHALT ANCHOR PIN.

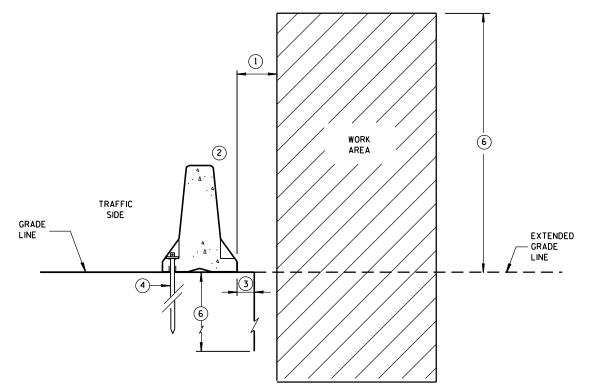


STAKE DOWN INSTALLATION FOR **ASPHALTIC SURFACE** 

> **CONCRETE BARRIER** TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION -15d  $\mathbf{\omega}$ Ω

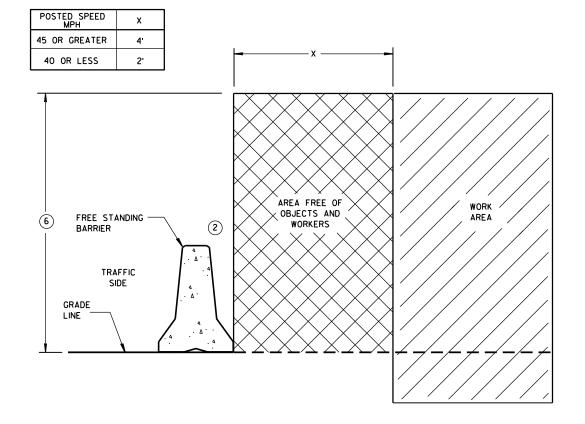


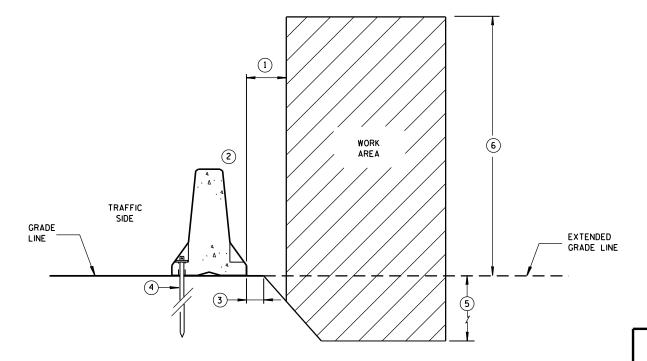


**GENERAL NOTES** 

- 1) WHEN OBJECTS EXTEND ABOVE THE GRADE, A MINIMUM OF 1 FOOT IS REQUIRED FROM BACK OF BARRIER TO OBJECT. SEE OTHER DETAILS FOR FOR THE MINIMUM OFFSET FROM BACK OF BARRIER TO SLOPES OR
- 2 OBJECTS ARE NOT TO BE PLACED ON, MOUNTED TO, OR LEANED AGAINST THE BARRIER WITHOUT PERMISSION OF THE PROJECT ENGINEER.
- (3) SEE OTHER DETAIL ON SHEET "D" FOR SPACE REQUIREMENTS.
- 4 SEE BOLT THROUGH DECK, REMOVABLE ADHESIVE ANCHOR, OR A STAKE DOWN FOR ASPHALTIC SURFACE TREATMENT DETAILS. ASPHALTIC ANCHOR SHOWN.
- (5) DEPTH OF 3 FEET OR MORE.
- (6) Y = 6'-6".

ANCHORED BARRIER SPACE REQUIREMENTS ON VERTICAL DROP OFFS





FREE STANDING BARRIER SPACE REQUIREMENTS

ANCHORED BARRIER SPACE REQUIREMENTS ON SLOPES

**CONCRETE BARRIER** TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

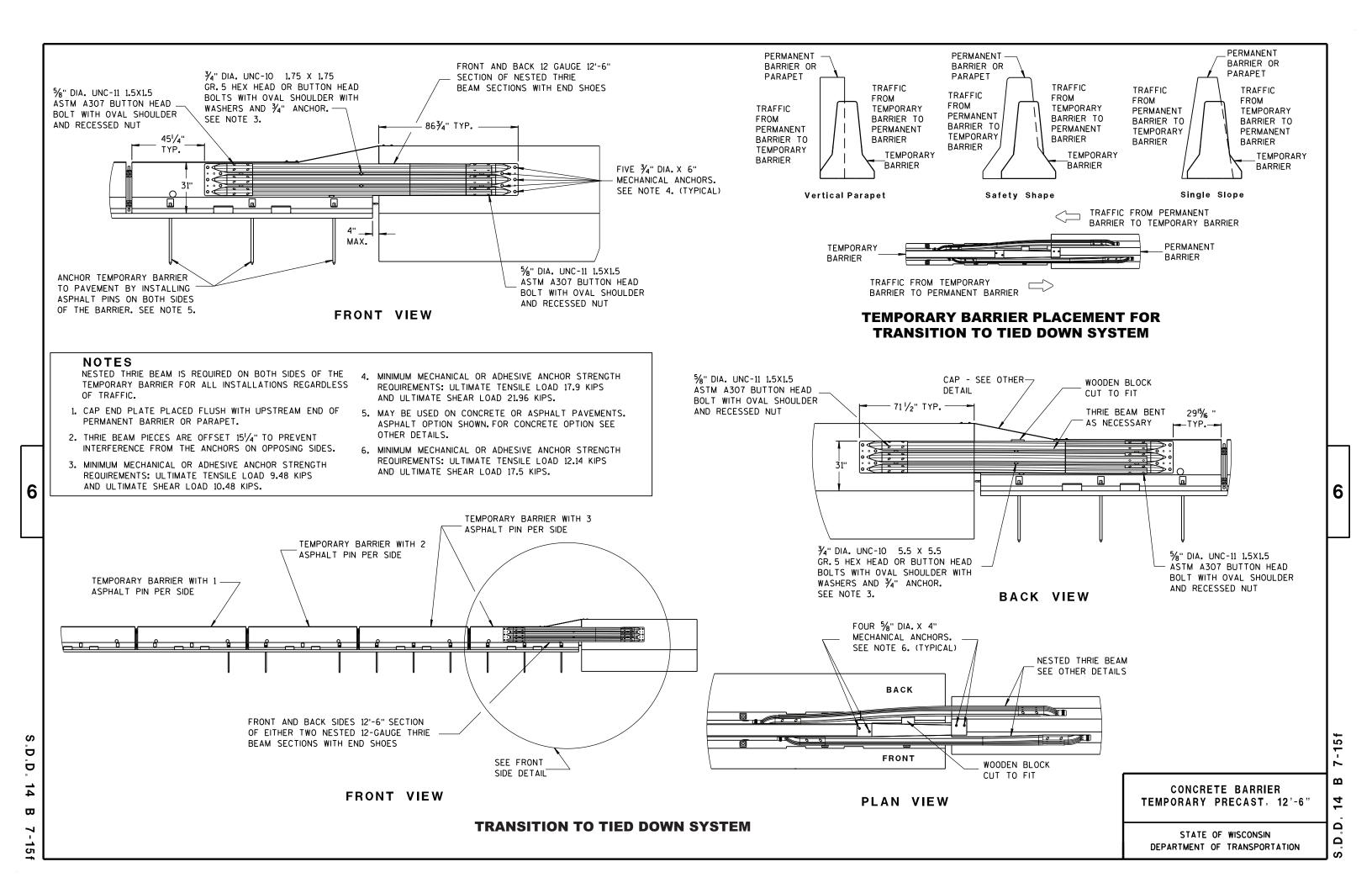
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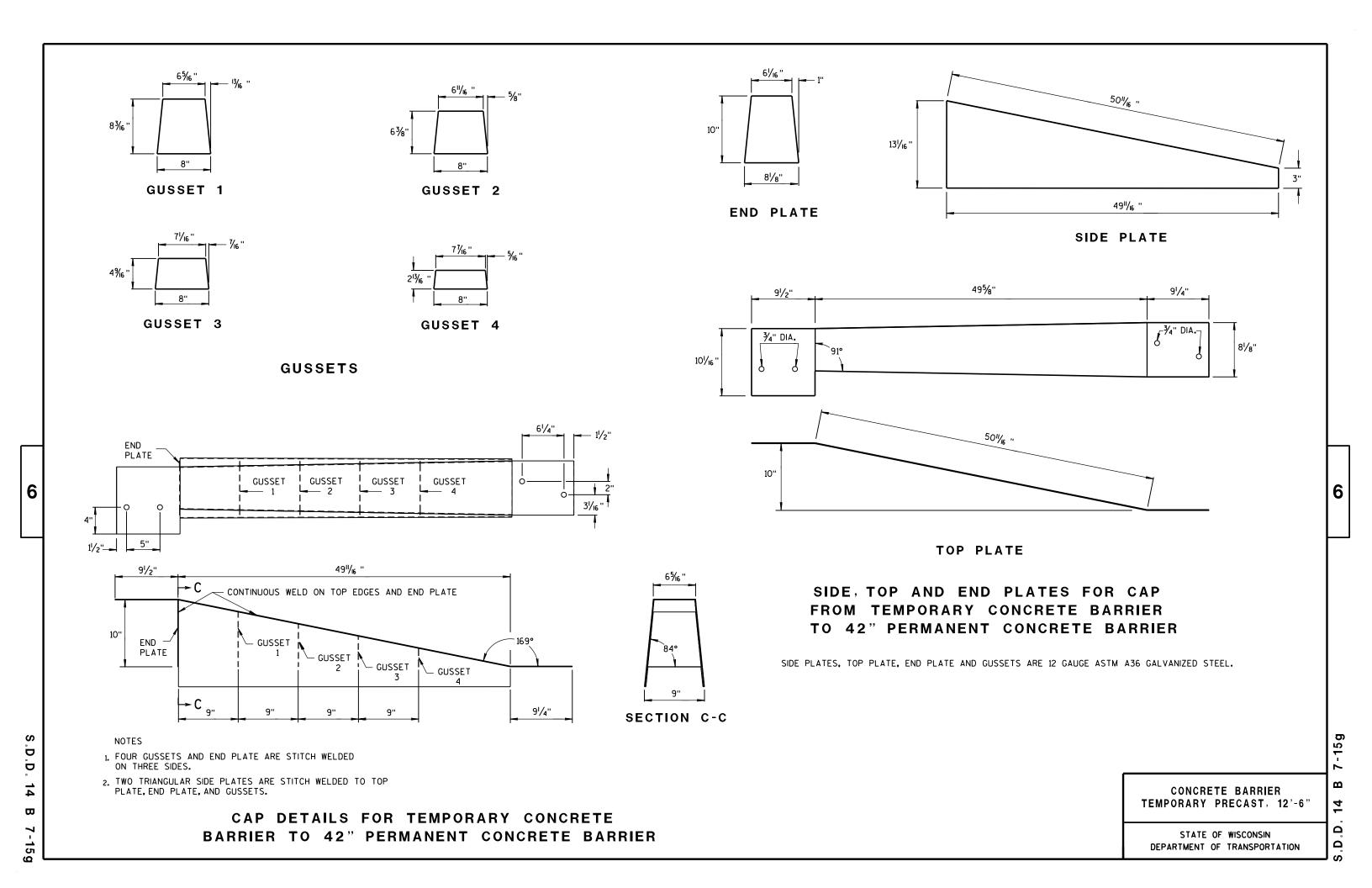
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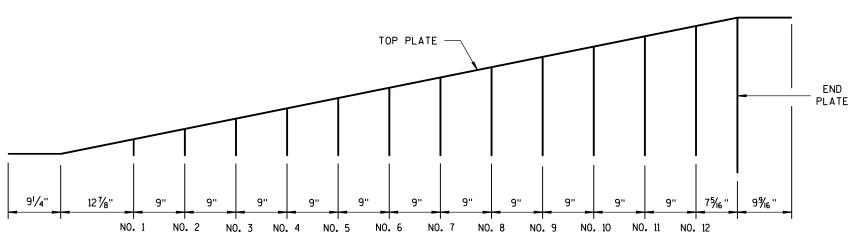
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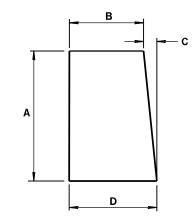
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**GUSSET LOCATION** 



**GUSSETS 1 - 12** 

ALL GUSSETS 1/8" STEEL PLATE

GUSSET DIMENSIONS									
GUSSET NO.	Α	В	D						
1	21/8"	73/4"	1/4"	8					
2	4"/16 "	7% "	1/2"	8					
3	6 <sup>l</sup> /2"	73/8"	11/16 "	81/16"					
4	8%"	73//6"	7⁄8"	81/16 "					
5	101/8"	7''	1 1/16 "	81/16"					
6	11 <sup>15</sup> / <sub>16</sub> ''	6 <sup>13</sup> / <sub>16</sub> "	1 1/4"	81/16"					
7	13¾"	65%"	1 7/6"	81/16"					
8	15% "	6¾6"	1 % "	81/16"					
9	173/8"	61/4"	1 <sup>13</sup> / <sub>16</sub> ''	8½ <sub>6</sub> "					
10	193/6"	6½ <sub>6</sub> "	1 15/16 "	81/16"					
11	21"	57/8"	23/6"	81/16"					
12	22 <sup>13</sup> / <sub>16</sub> "	5 <sup>11</sup> / <sub>16</sub> "	25/6"	8½ <sub>6</sub> "					

SIDE PLATES, TOP PLATE, END PLATE AND GUSSETS ARE 12 GAUGE ASTM A36 STEEL AND GALVANIZED.

GUSSETS AND END PLATE ARE STITCH WELDED ON 3 SIDES.
TWO TRIANGULAR SIDE PLATES ARE STITCH WELDED TO TOP
PLATE, END PLATE AND GUSSETS.

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

7-15h

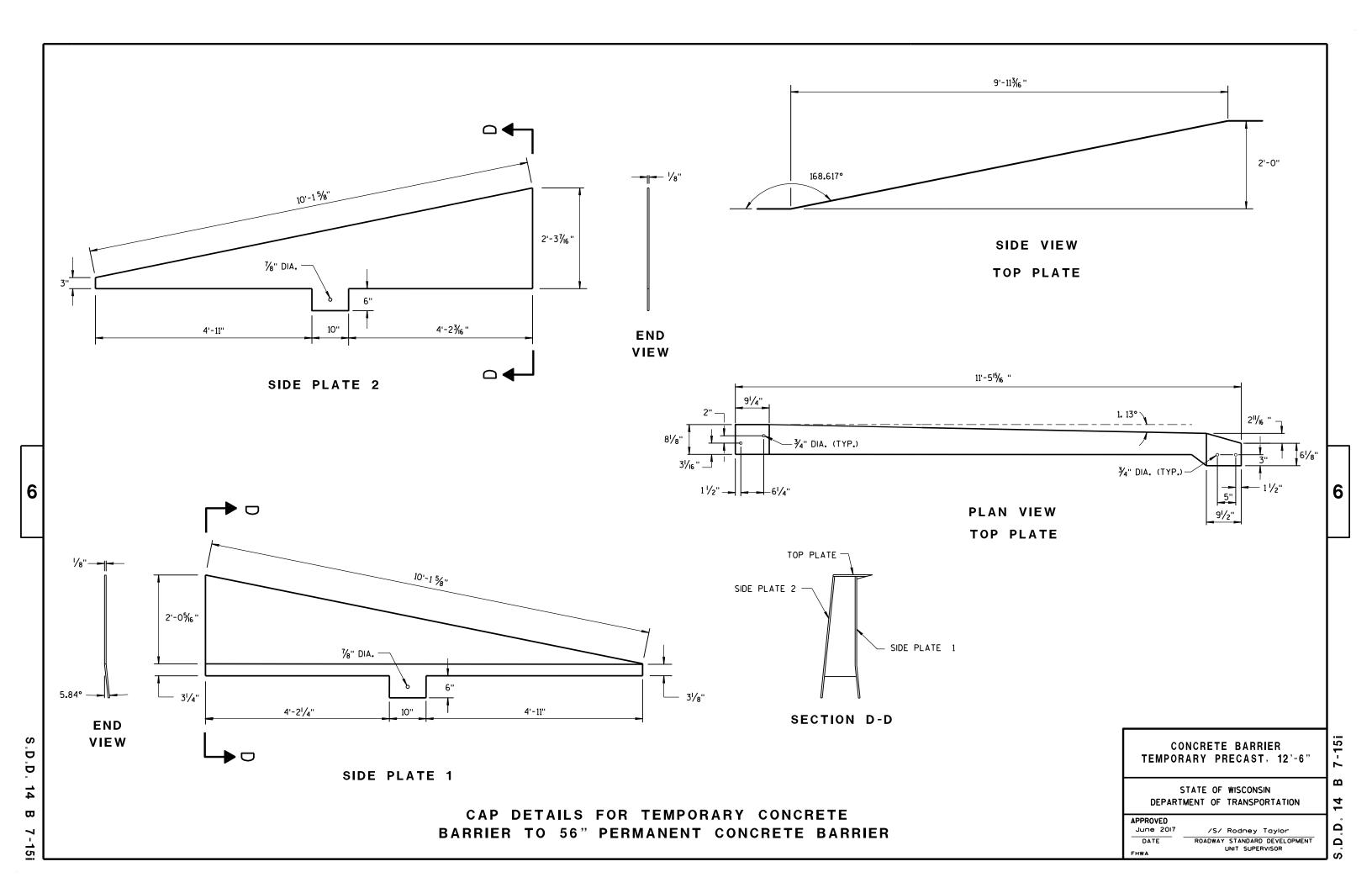
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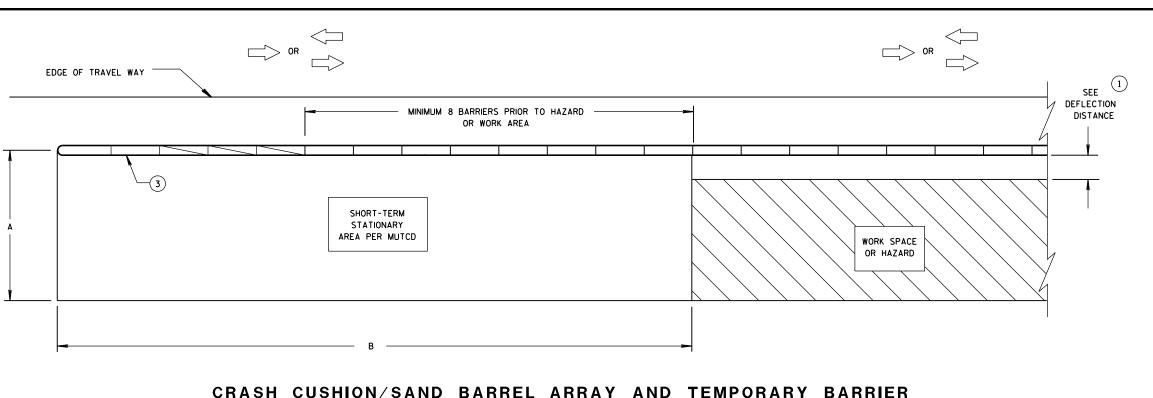
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S.D.D. 14 B 7-15h

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CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 56" PERMANENT CONCRETE BARRIER





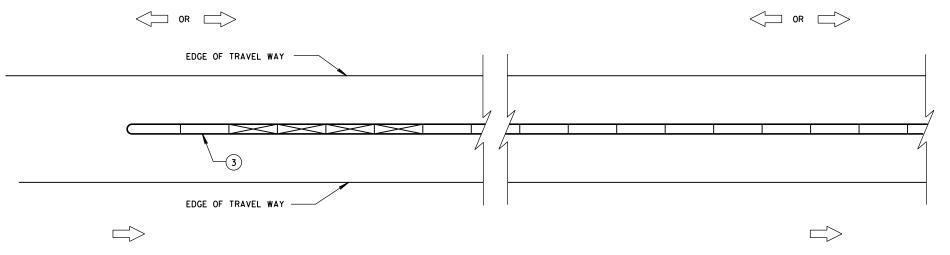
## DIMENSION A TABLE (2)

		DIMENS	ION A
FACILITY	POSTED SPEED MPH	MIN. FT	MAX. FT
FREEWAY/EXPRESSWAY	ALL	15	20
NON-FREEWAY/EXPRESSWAY	GREATER THAN OR EQUAL TO 45	10	15
NON-FREEWAY/EXPRESSWAY	LESS THAN 45	8	10
AADT LESS THAN 1,500	ALL	8	10

## DIMENSION B TABLE (2)

POSTED	DIMENSION
SPEEDS	В
MPH	FT
20	115
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645

## CRASH CUSHION/SAND BARREL ARRAY AND TEMPORARY BARRIER INSTALLATION FOR TRAFFIC ON ONE SIDE OF BARRIER



# CRASH CUSHION/SAND BARREL ARRAY AND TEMPORARY BARRIER INSTALLATION FOR TRAFFIC ON BOTH SIDES OF BARRIER

#### **GENERAL NOTES**

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SEE STANDARD DETAIL DRAWING 14B7 FOR MORE INFORMATION.

DETAILS PROVIDE A GENERAL LAYOUT OF TEMPORARY CONCRETE BARRIER, CRASH CUSHIONS, SAND BARREL ARRAYS AND TIE DOWN TRANSITIONS. DETAILS PROVIDED MAY NOT FIT ALL POSSIBLE SITUATIONS OR SITE CONDITIONS. SEE OTHER SECTIONS OF THE CONTRACT OR PROJECT ENGINEER FOR MORE DETAILS.

ADDITIONAL TEMPORARY BARRIER MAY BE REQUIRED TO PROTECT TRAVELING PUBLIC FROM HAZARDS, CONTRACTOR'S OPERATIONS OR TO CONTROL TRAFFIC.

TEMPORARY BARRIER MAY BE REQUIRED TO BE ANCHORED TO PAVEMENT OR BRIDGE DECK.

FOR DETAILS ON CRASH CUSHION OR SAND BARREL ARRAYS SEE OTHER SECTIONS OF THE PLAN AND MANUFACTURE'S DETAILS.

SLOPES LEADING TO TEMPORARY BARRIER, CRASH CUSHION OR SAND BARREL ARRAY ARE 10:1 OR LESS.

- 1) FOR DEFLECTION INFORMATION SEE STANDARD DETAIL DRAWING 14B7.
- 2 VALUES PROVIDED MAY NOT FIT ALL POSSIBLE SITUATIONS OR SITE CONDITIONS. SEE OTHER SECTIONS OF THE CONTRACT OR PROJECT ENGINEER FOR MORE DETAILS.
- (3) ANCHOR TEMPORARY BARRIER ACCORDING TO CRASH CUSHION OR SAND BARREL MANUFACTURER'S RECOMMENDATIONS. IF MANUFACTURER'S RECOMMENDATIONS ARE NOT PROVIDED, ANCHOR 3 PINS ON TRAFFIC SIDE.

#### CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

LEGEND

DIRECTION OF TRAVEL

CRASH CUSHION OR SAND BARREL ARRAY

SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS

SEE BI-DIRECTIONAL TRANSITION
TO TIED-DOWN SYSTEM DETAILS

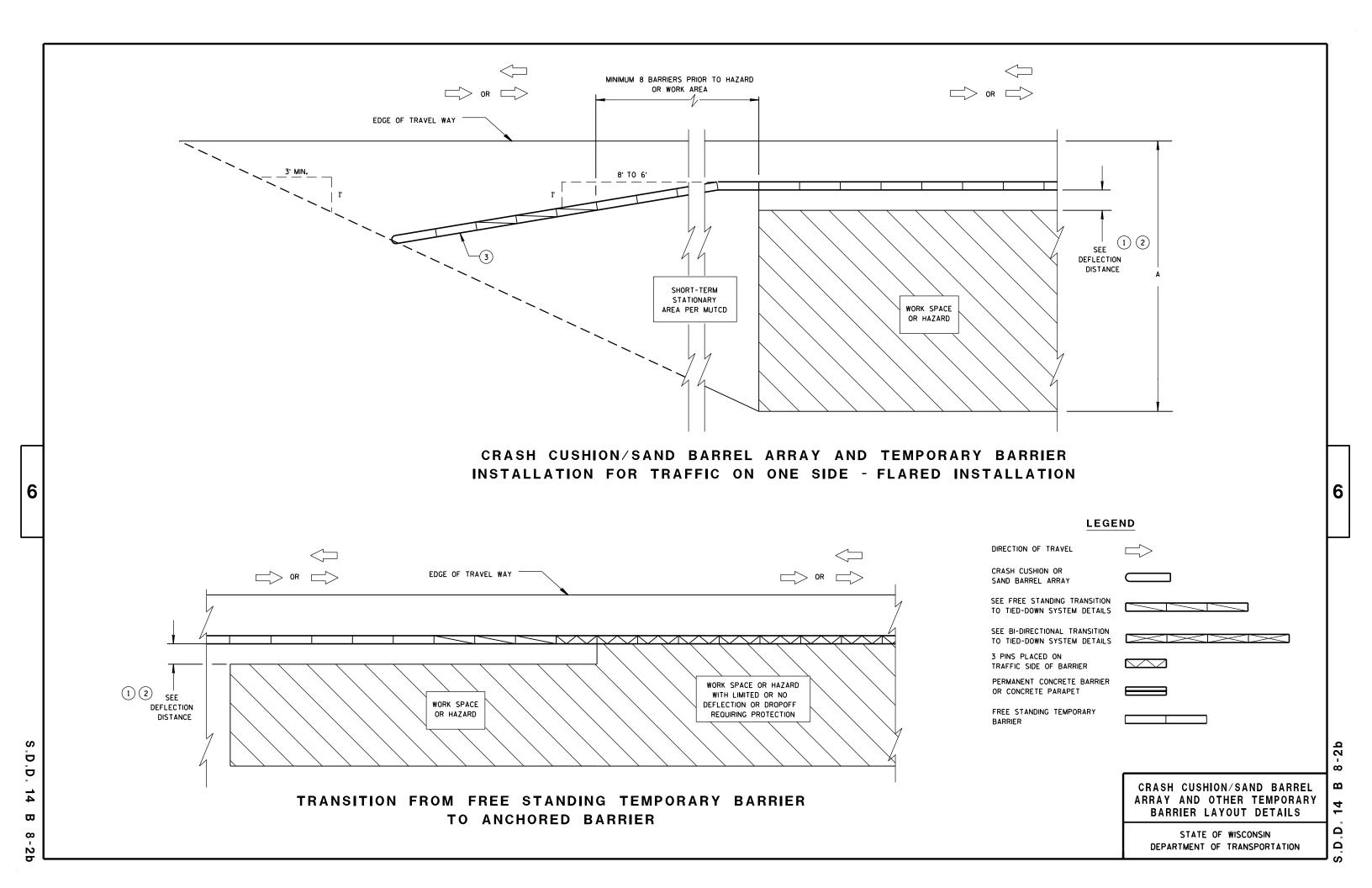
3 PINS PLACED ON TRAFFIC SIDE OF BARRIER

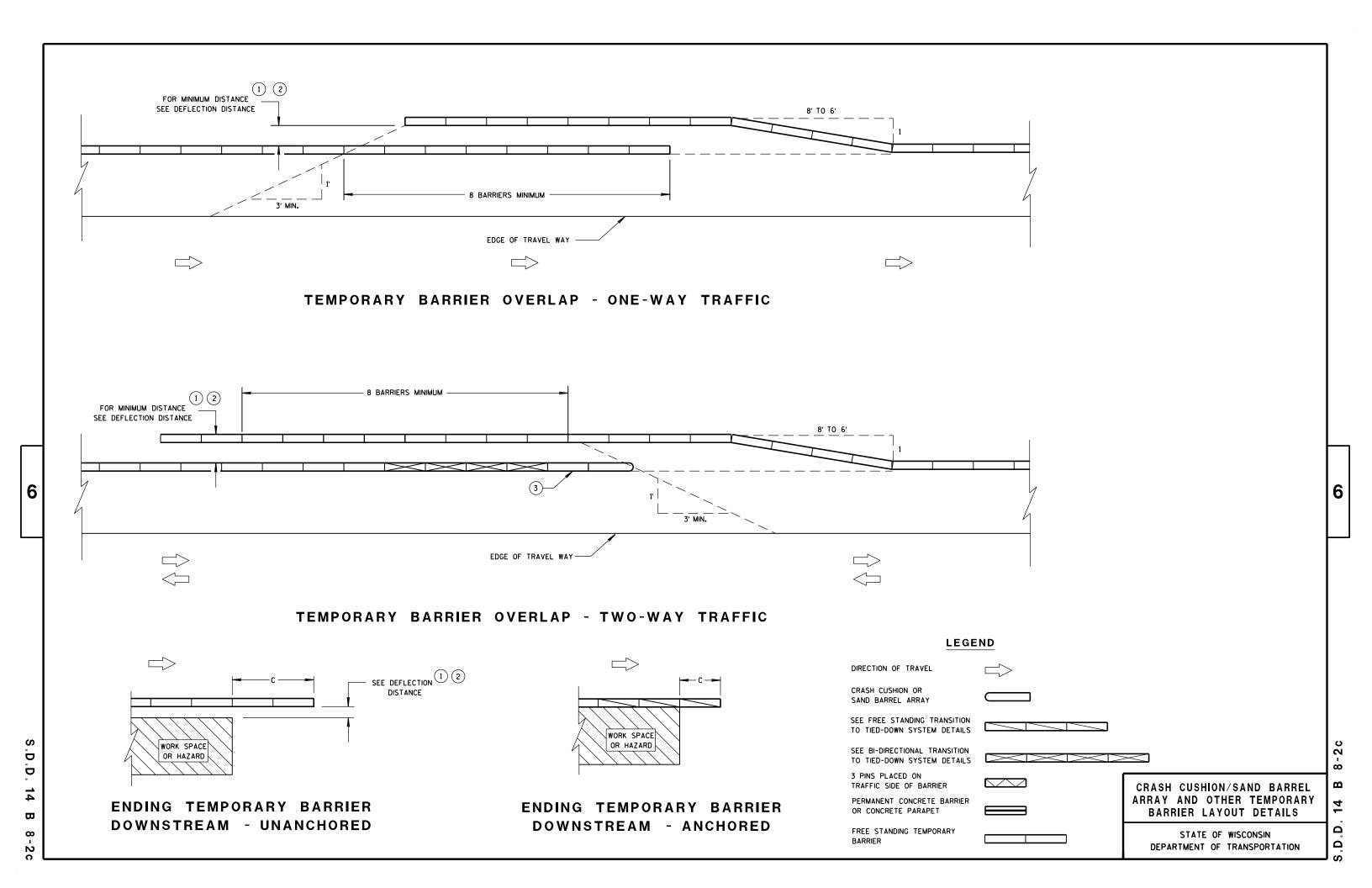
PERMANENT CONCRETE BARRIER
OR CONCRETE PARAPET

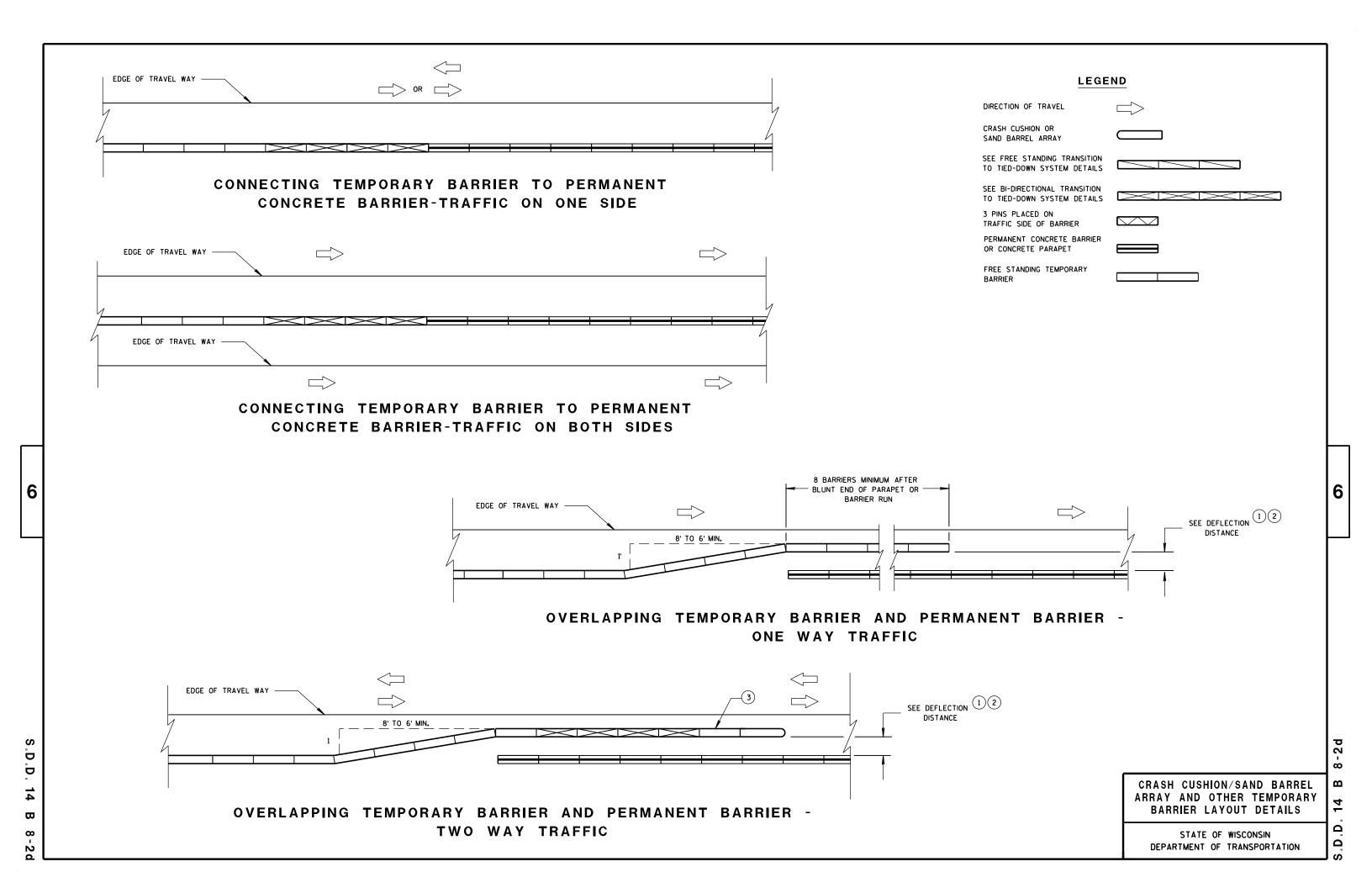
FREE STANDING TEMPORARY BARRIER

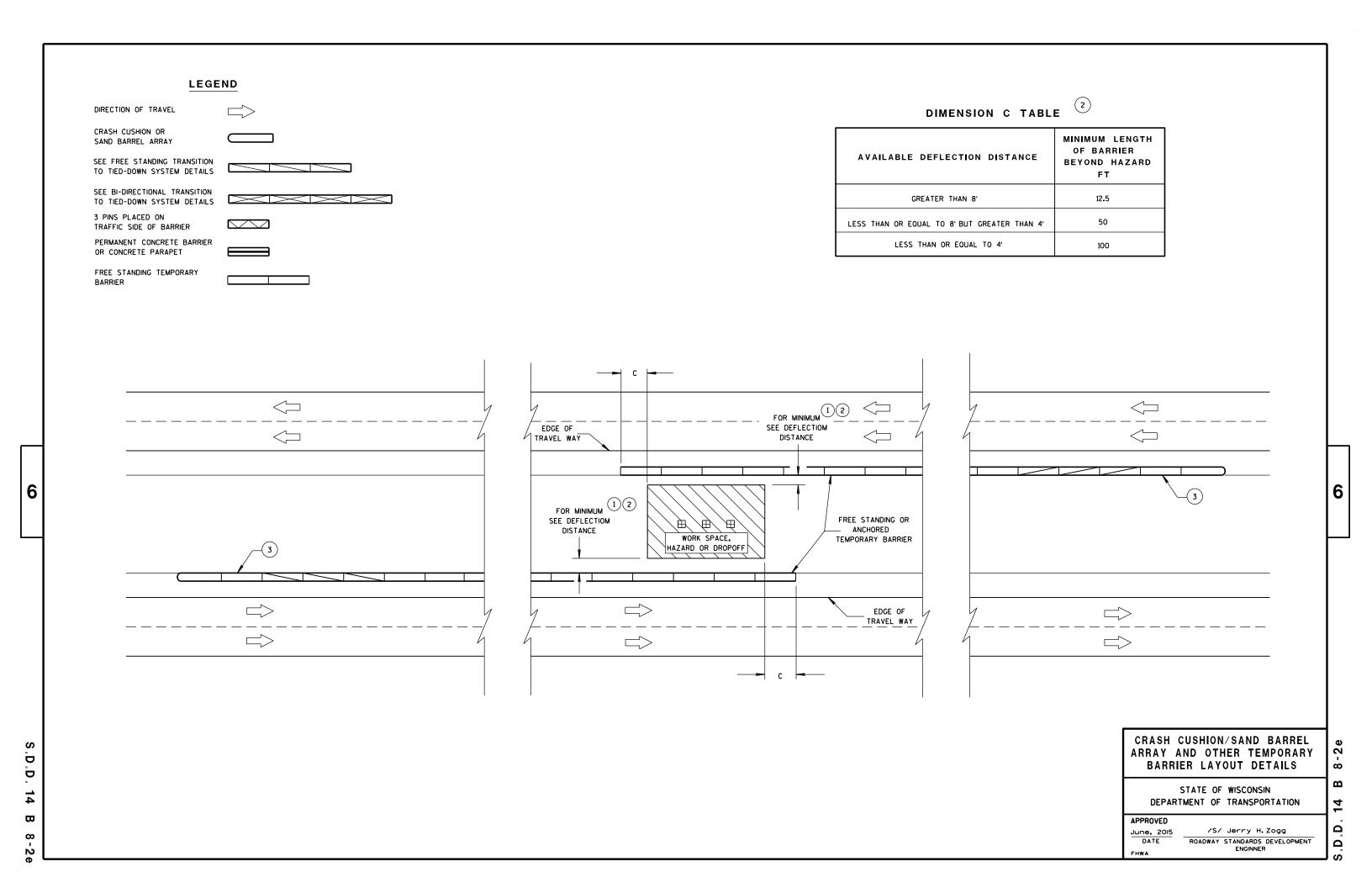
14 B 8-2a

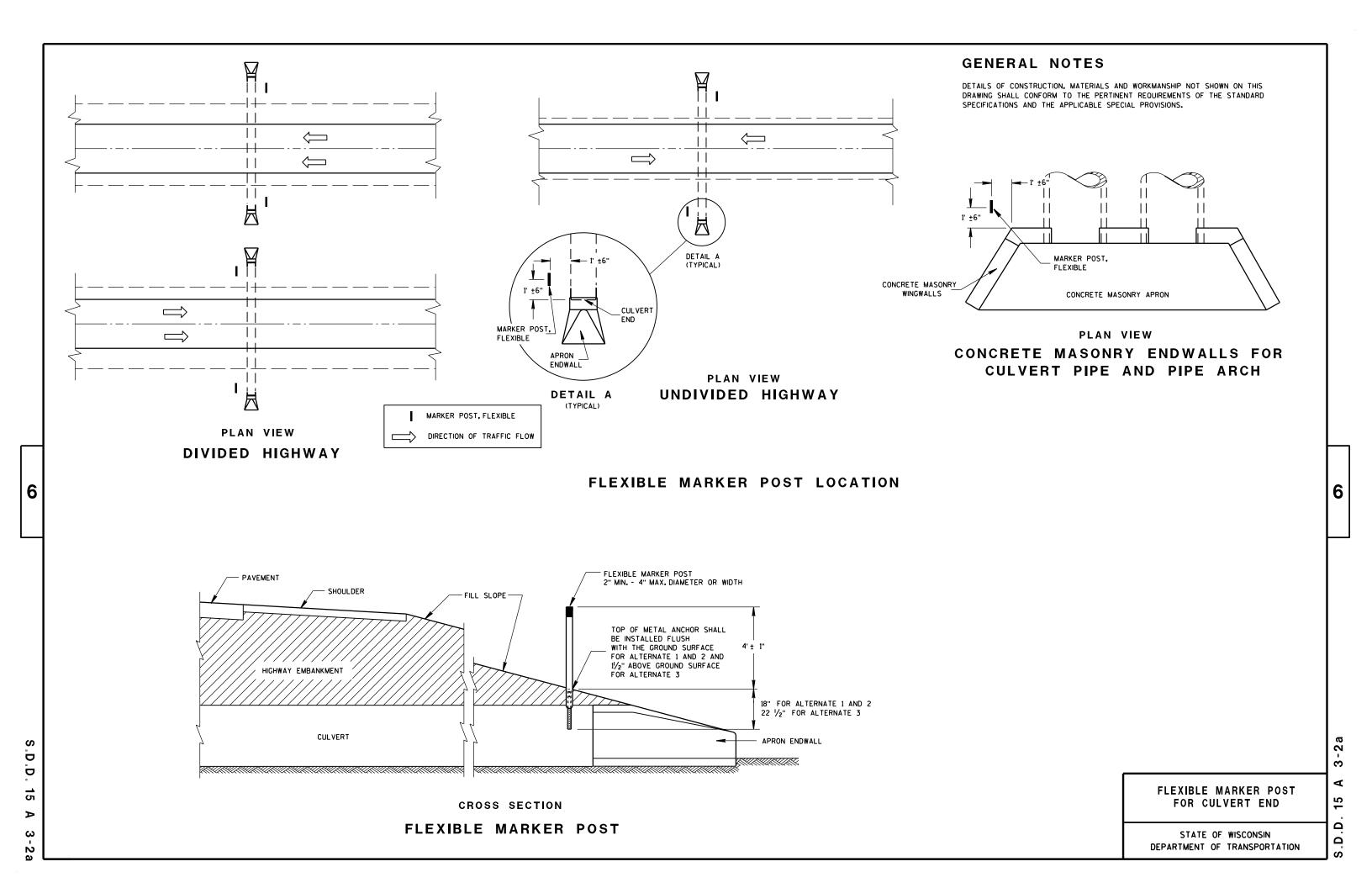
S.D.D. 14

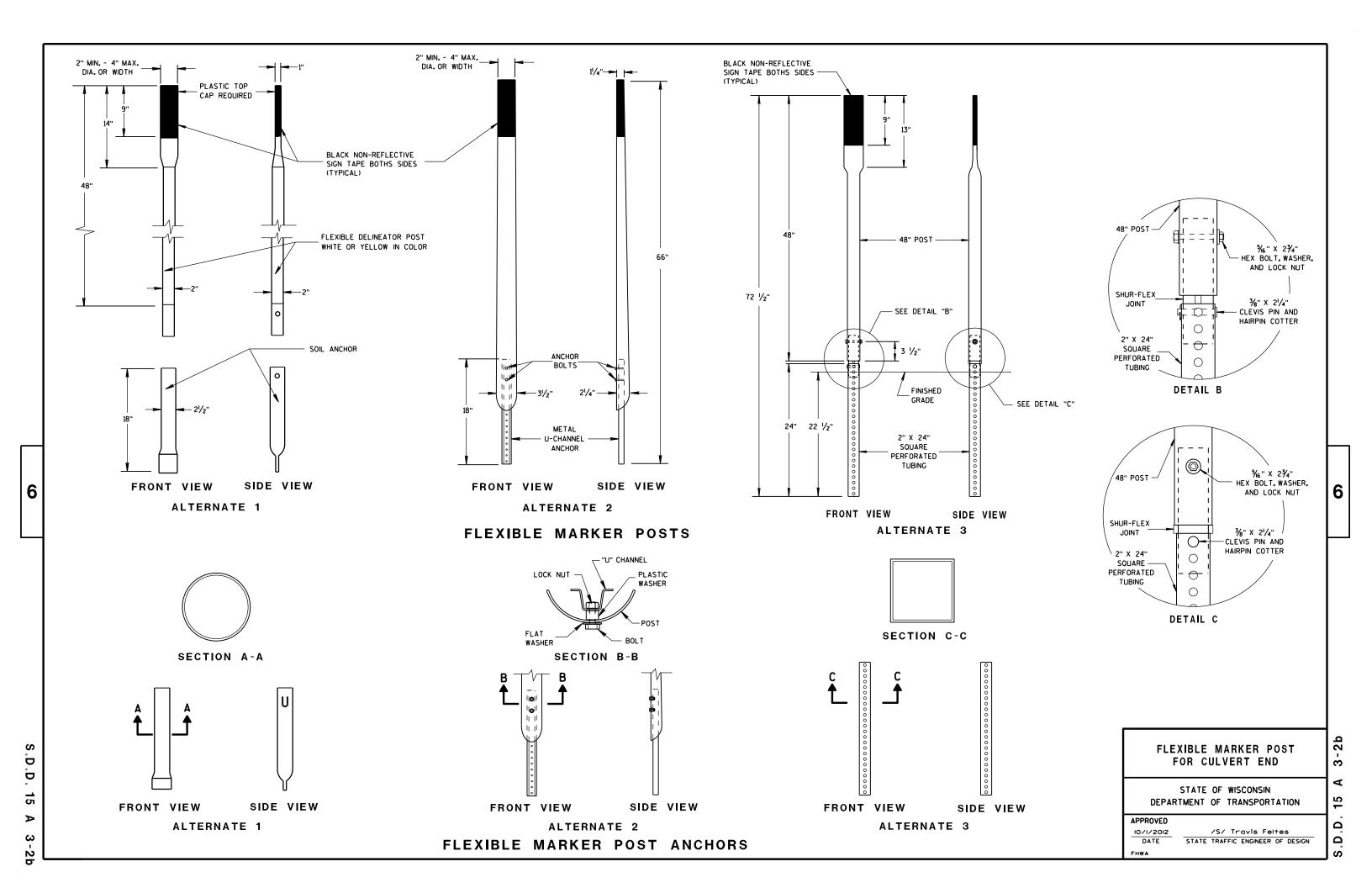


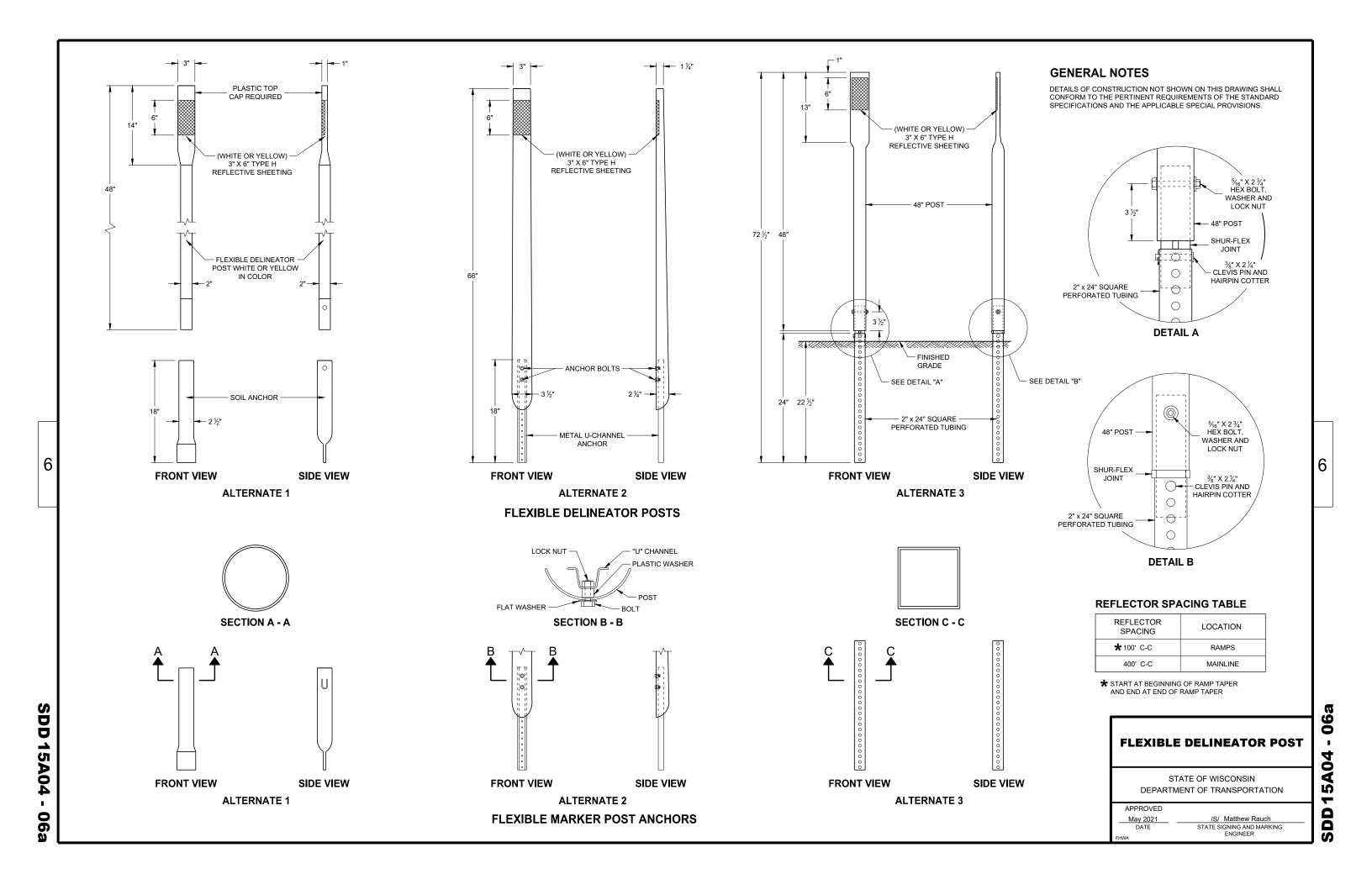


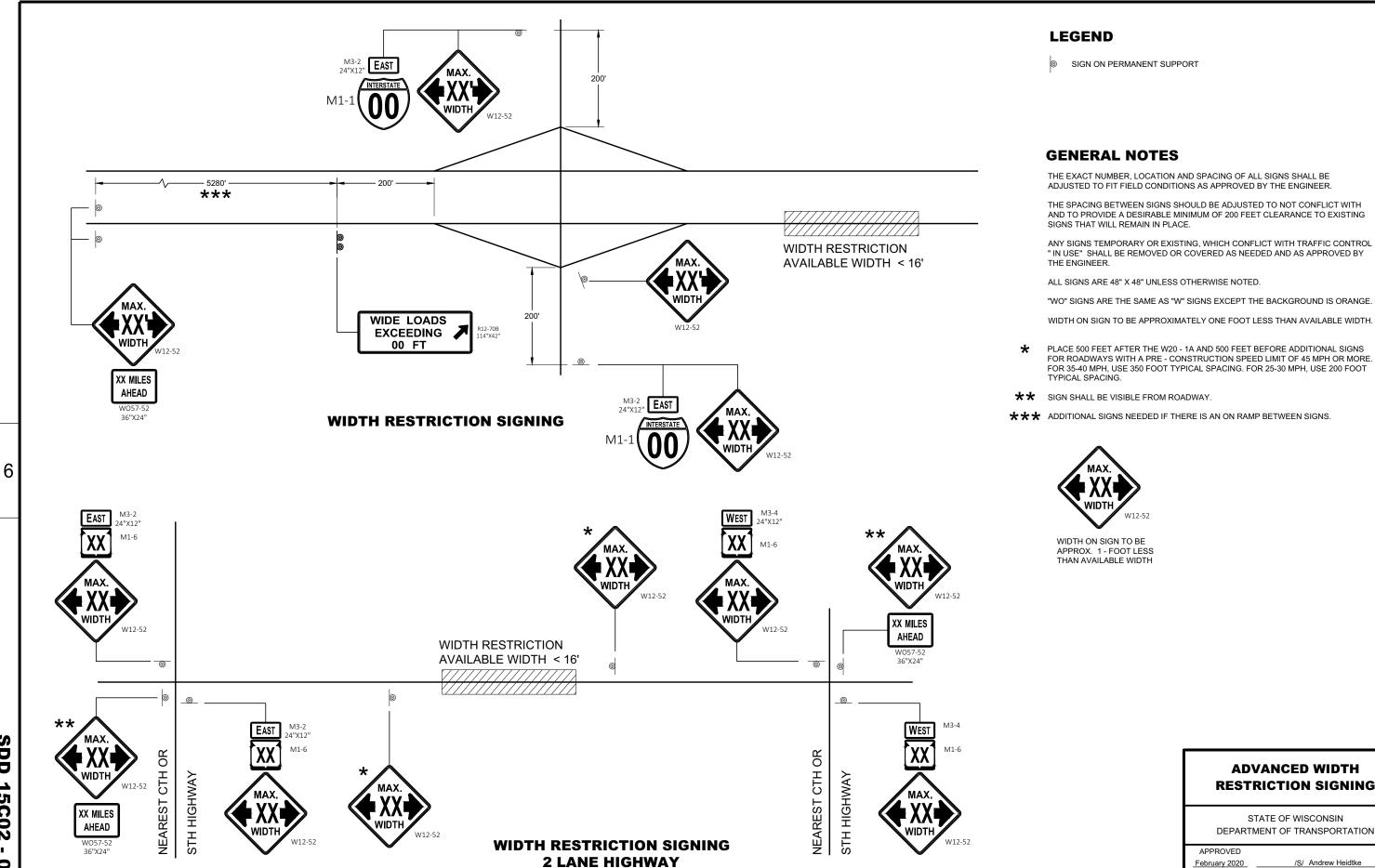












AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING

"IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY

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

FOR ROADWAYS WITH A PRE - CONSTRUCTION SPEED LIMIT OF 45 MPH OR MORE. FOR 35-40 MPH, USE 350 FOOT TYPICAL SPACING. FOR 25-30 MPH, USE 200 FOOT

\*\*\* ADDITIONAL SIGNS NEEDED IF THERE IS AN ON RAMP BETWEEN SIGNS.

#### **ADVANCED WIDTH RESTRICTION SIGNING**

08

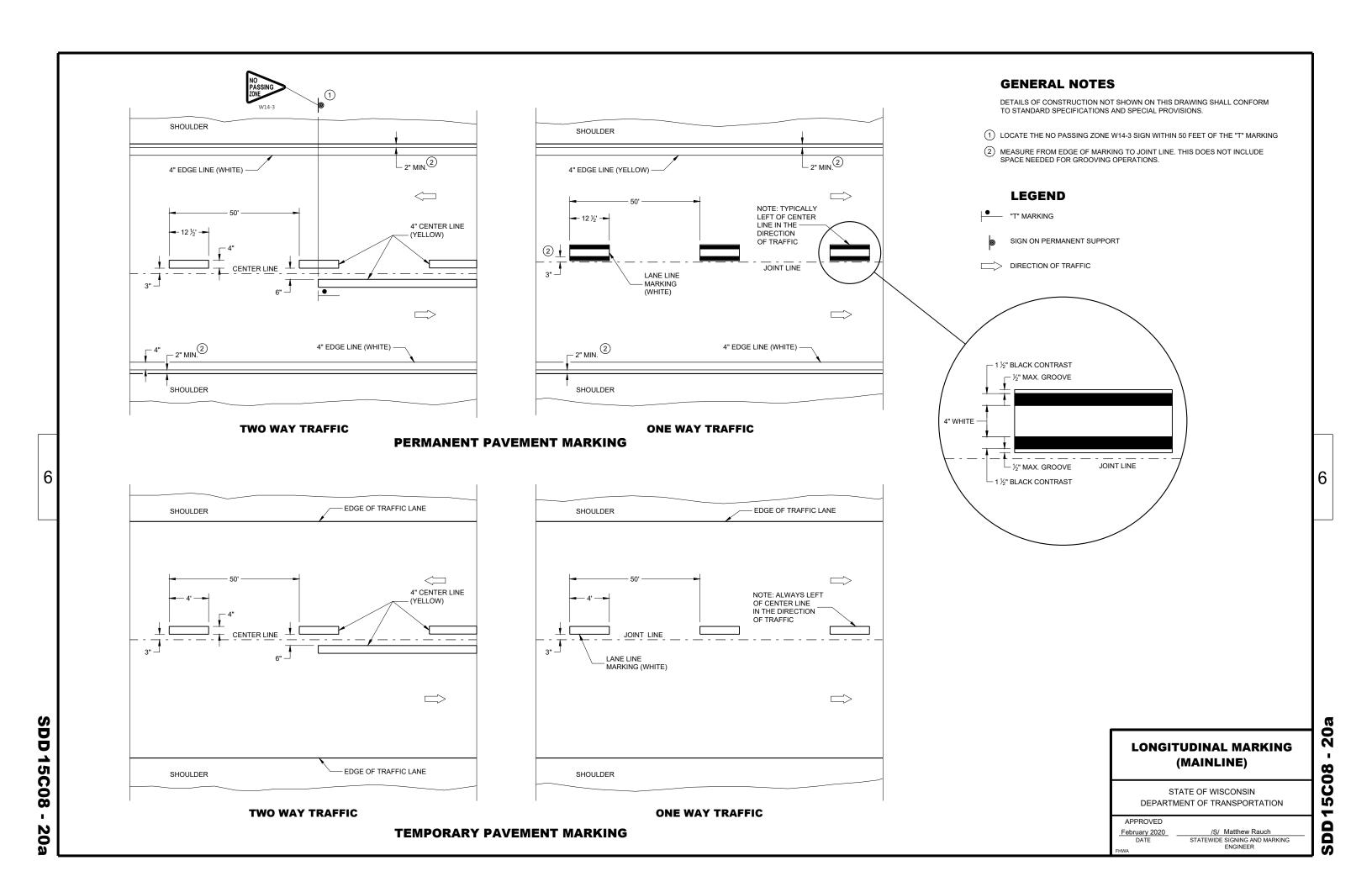
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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

February 2020 DATE /S/ Andrew Heidtke WORK ZONE ENGINEER

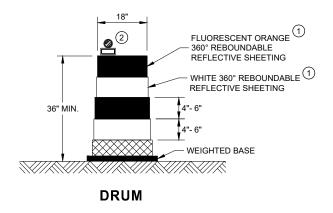
SDD 15C02 08f

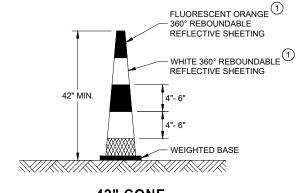


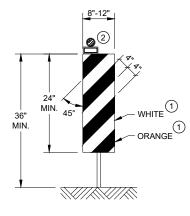
# <u>60</u> 15C

#### **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.



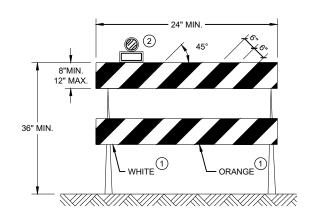




#### **42" CONE** DO NOT USE IN TAPERS ½ SPACING OF DRUMS

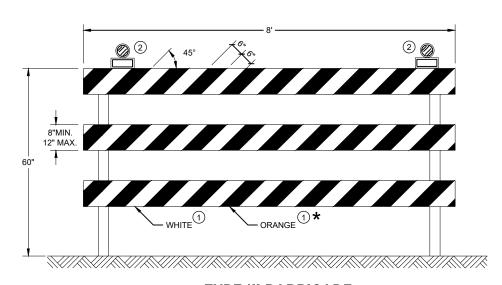
### **VERTICAL PANEL**

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

APPROVED	
May 2021	/S/ Andrew Heidtke
DATE	WORK ZONE ENGINEER
FHWA	

RUMBLE

STRIPS

ROAD

WORK

#### **GENERAL NOTES FLAGGING LEGEND** DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE SIGN ON PORTABLE OR STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT REMOVE TEMPORARY PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON PERMANENT SUPPORT PORTABLE RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING. UNIFORM TRAFFIC CONTROL DEVICES. ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED. FOR MOVING WORK OPERATIONS, POST ADDITIONAL W20-7A FLAGGER SIGNS AT APPROXIMATELY 3,500' INTERVALS IN THE MOVING TEMPORARY PORTABLE RUMBLE WORK OPERATION OR AS APPROVED BY THE ENGINEER. STRIP ARRAY "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE. SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA. THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS, DEVICES, AND LOCATION OF ALL FLAGGERS SHALL BE DIRECTION OF TRAFFIC ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER. WHEN THE DISTANCE BETWEEN FLAGGERS EXCEEDS 2 MILES, A PILOT CAR IS REQUIRED. WHEN CURVES REDUCE SIGHT DISTANCE BELOW 400', A PILOT CAR IS REQUIRED. THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP WORK AREA **TEMPORARY PORTABLE RUMBLE STRIPS** WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL UTILIZE TEMPORARY PORTABLE RUMBLE STRIPS ON ALL FLAGGING OPERATIONS. TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER. FLAGGER, EQUIPPED WITH STOP/SLOW EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS SPACED ACCORDING TO MANUFACTURER'S PADDLE FASTENED ON SUPPORT STAFF RECOMMENDATION, PLACED TRANSVERSE ACROSS THE LANE AT LOCATIONS SHOWN. ONLY USE TEMPORARY PORTABLE RUMBLE STRIPS FOR THE APPROVED PRODUCTS LIST. INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS. PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS. DO NOT INSTALL TEMPORARY PORTABLE RUMBLE STRIPS ON GRAVEL, MILLED SURFACES, OR ASPHALT THAT HAS BEEN PAVED LESS THAN 12 HOURS. **SIGN AND TEMPORARY RUMBLE** STRIP ARRAY SPACING TABLE 5' MIN BE SPEED LIMIT SPACING "A" USE OF WO3-4 SIGN IS OPTIONAL. WHEN USED, PREPARED THIS SIGN SHALL BE LOCATED BETWEEN THE 25-30 MPH TO STOP W20-7A AND W20-4A SIGNS, USING SPACING "A" 350' 35-40 MPH STOP/SLOW PADDLE ŔUMBLĖ 45-55 MPH 500' WO3-4 WORK **ON SUPPORT STAFF** ROAD STRIPS 1 VARIABLE DISTANCE - 200' - 300' (TYP.) END ROAD WORK |||3 WORK AREA A/2 END ROAD WORK 200' - 300' (TYP.) VARIABLE DISTANCE

### TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

**FLAGGING OPERATION** STATE OF WISCONSIN

2

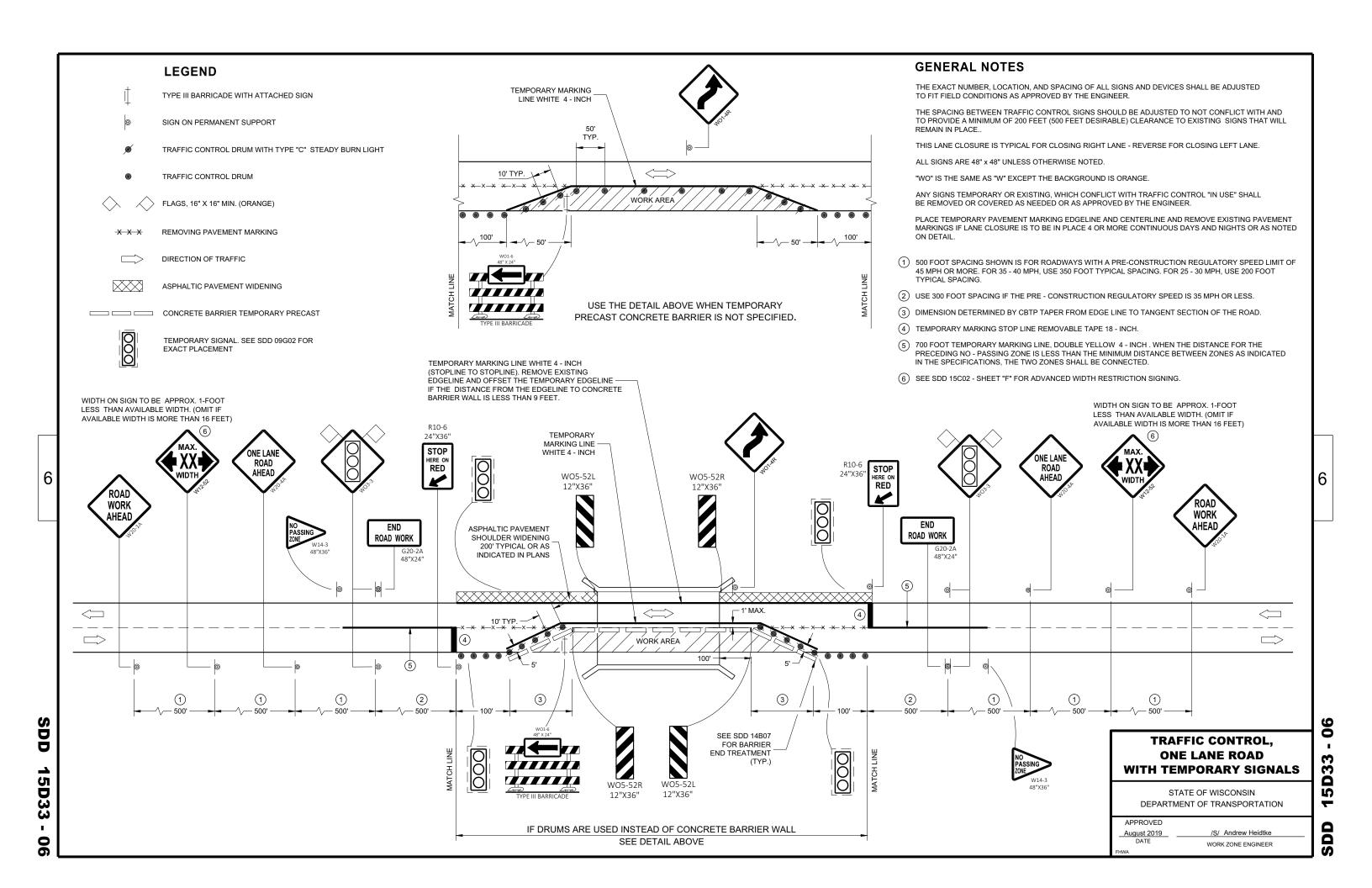
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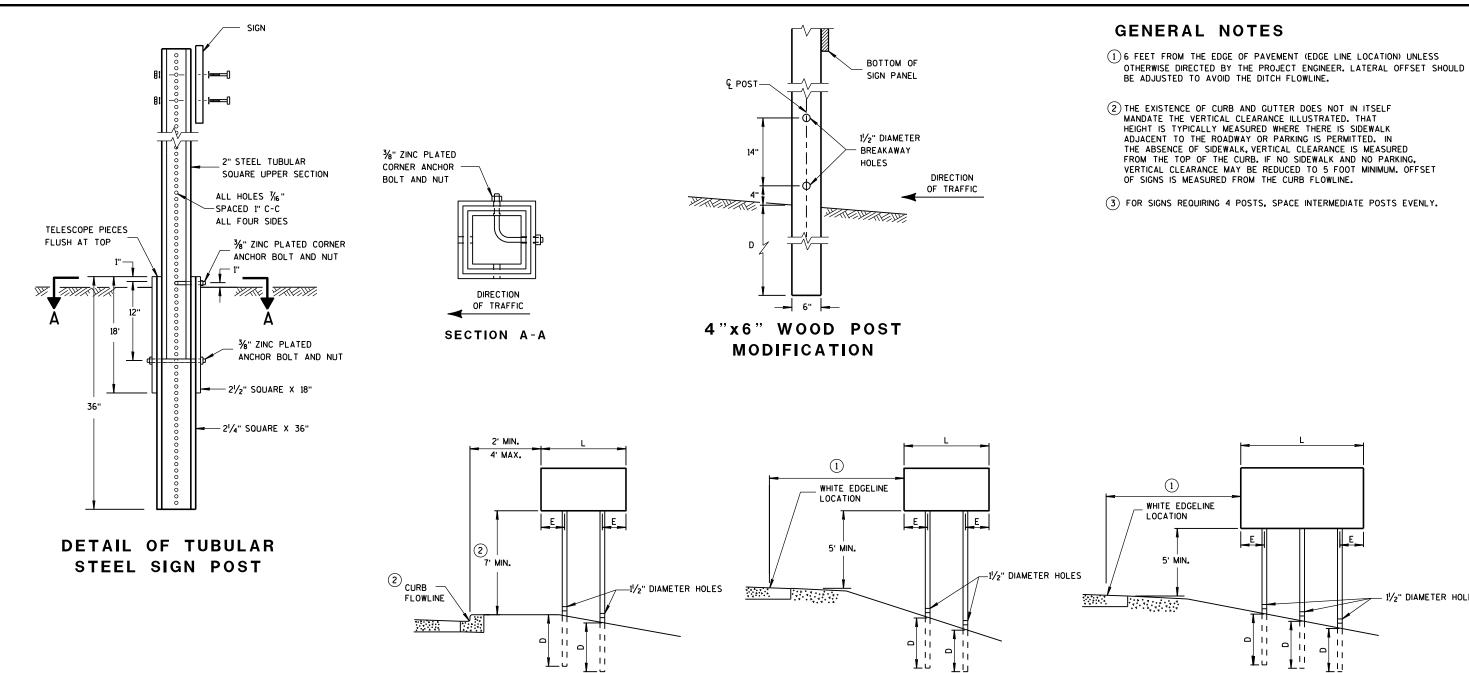
TRAFFIC CONTROL FOR

LANE CLOSURE WITH

DEPARTMENT OF TRANSPORTATION

APPROVED May 2019 DATE WORK ZONE ENGINEER





TUBULAR STEEL POSTS

6

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15

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AREA OF SIGN INSTALLATION (SO. FT.)	NUMBER OF REQUIRED TUBULAR STEEL POSTS
9 OR LESS	1
GREATER THAN 9 LESS THAN OR EQUAL TO 18	2
GREATER THAN 18 LESS THAN OR EQUAL TO 27	3

SIGNS WIDER THAN 3 FEET OR LARGER THAN 9 SO.FT. SHALL BE MOUNTED ON MULTIPLE POSTS (SEE ABOVE TABLE). SIGNS LARGER THAN 27 SO.FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.

URBAN AREA

RURAL AREA

## POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

WOOD POST **EMBEDMENT DEPTH** 

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

4" X 6" WOOD POST

POST SPACING REQUIREM	NUMBER OF		
L	E	WOOD POSTS REQUIRED	
48" OR LESS AND LESS THAN 20 SO.FT.	-	1	
LESS THAN 60"	12"	2	,
60" TO 120"	L/5	2	
GREATER THAN 120" LESS THAN 168"	12"	3	
168" AND GREATER	12"	4	

SEE NOTE (3)

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

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- 11/2" DIAMETER HOLES

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

-11

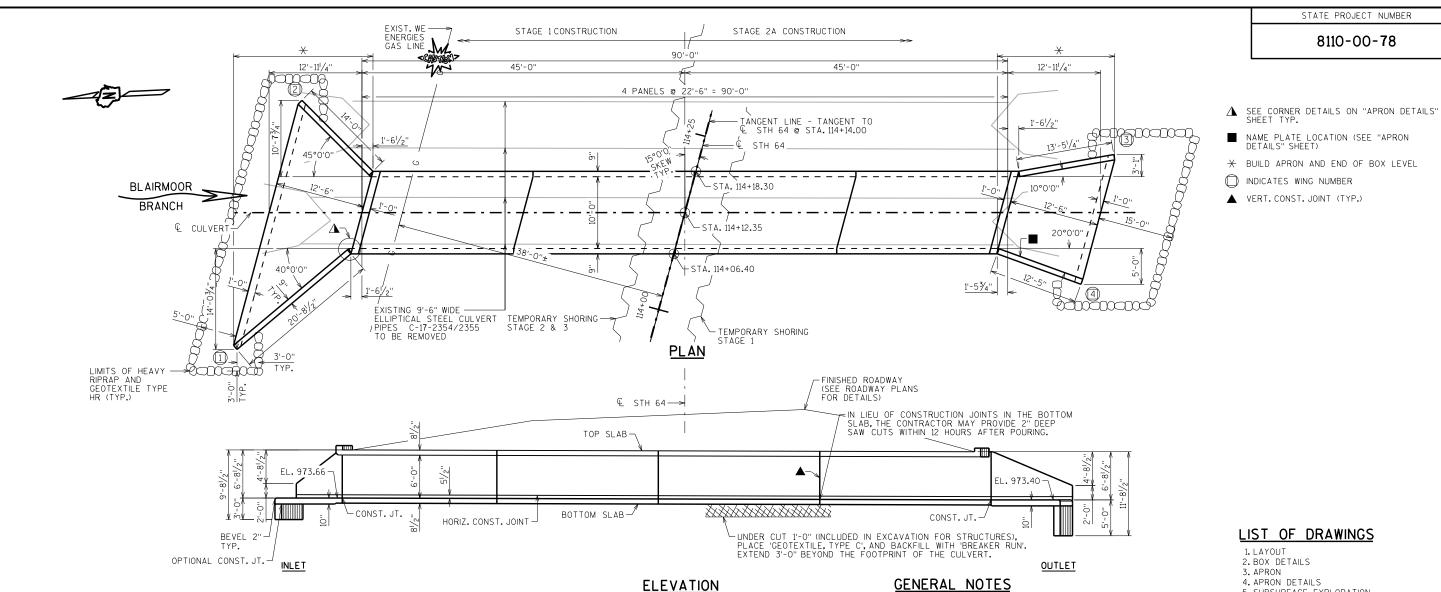
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DEPARTMENT OF TRANSPORTATION

/S/ Andrew Heidtke WORK ZONE ENGINEER

APPROVED

June 2017 DATE



#### DESIGN DATA

#### LIVE LOAD:

DESIGN LOADING: HL-93
INVENTORY RATING FACTOR: RF = 1.05
OPERATING RATING FACTOR: RF = 1.35
WISCONSIN STANDARD PERMIT VEHICLE (WIS.-SPV): 255(KIPS)

#### EARTHLOAD:

8

DESIGNED FOR 4.0 TO 7.0 FT. OF FILL.

#### MATERIAL PROPERTIES:

f'c = 3,500 P.S.I.fy = 60,000 P.S.I. BAR STEEL REINFORCEMENT:

TRAFFIC VOLUME

ADT = 3,900 (2020)

R.D.S. = 55 M.P.H.

STH 64

#### HYDRAULIC DATA

#### 100 YEAR FREQUENCY

 $Q_{100} = 550$  C.F.S. VEL.<sub>100</sub> = 12 F.P.S. HW.<sub>100</sub> = EL. 981.41 WATERWAY AREA = 60 SQ. FT. DRAINAGE AREA = 3.9 SQ. MI. ROADWAY OVERTOPPING = N/A SCOUR CRITICAL CODE = 8

#### 2 YEAR FREQUENCY

Q<sub>2</sub> = 135 C.F.S. VEL.2 = 4.1 F.P.S. HW.<sub>2</sub> = EL. 977.47

#### TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
203.0260	REMOVING STRUCTURE OVER WATERWAY MINIMAL DEBRIS (C-17-2354/2355)	EACH	1
206.2000	EXCAVATION FOR STRUCTURES CULVERTS C-17-47	LS	1
210.2500	BACKFILL STRUCTURE TYPE B	TON	1,286
311.0115	BREAKER RUN	CY	83
502.4205	ADHESIVE ANCHORS NO. 5 BAR	EACH	36
504.0100	CONCRETE MASONRY CULVERTS	CY	114
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	22,260
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	1,570
511.1200	TEMPROARY SHORING C-17-47	SF	1,100
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	29
606.0300	RIPRAP HEAVY	CY	48
645.0105	GEOTEXTILE TYPE C	SY	2 <b>7</b> 0
645.0120	GEOTEXTILE TYPE HR	SY	70
	NON-BID ITEMS		
	FILLER	SIZE	3/4''

#### **GENERAL NOTES**

DRAWINGS SHALL NOT BE SCALED.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BEVEL EXPOSED EDGES OF CONCRETE 3/4" UNLESS OTHERWISE NOTED. THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES CULVERTS C-17-47" SHALL BE THE EXISTING GROUNDLINE.

ALL VOLUME WHICH CANNOT BE PLACED BEFORE CULVERT CONSTRUCTION AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL WITHIN THE LENGTH OF THE CULVERT INCLUDING THE APRON WING WALLS.

THE QUANTITY FOR BACKFILL STRUCTURE IS CALCULATED BASED ON THE

THE CONCRETE IN THE CUTOFF WALLS MAY BE PLACED UNDERWATER IF THE EXCAVATION CANNOT BE DEWATERED.

PLACE 18" (MIN.) WIDE SHEET OF "RUBBERIZED MEMBRANE WATERPROOFING" ON TOP SLAB OVER ALL CONSTRUCTION JOINTS AND EXTEND DOWN TO BOTTOM OF OUTSIDE WALLS.

THE CONTRACTOR MAY FURNISH A PRECAST CONCRETE BOX CULVERT IN LIEU OF THE CAST-IN-PLACE BOX CULVERT WITH THE ACCEPTANCE OF THE SHOP DRAWINGS BY THE STRUCTURES DESIGN SECTION. THE PRECAST CONCRETE BOX CULVERT SHALL CONFORM TO PRECAST DETAILS ON CHAPTER 36 STANDARDS OF THE CURRENT WISC. DOT BRIDGE MANUAL. PAYMENT FOR THE PRECAST CULVERT SHALL BE BASED ON THE QUANTITIES AND PRICES BID FOR THE ITEMS LISTED IN THE "TOTAL ESTIMATED QUANTITIES".

THE CONTRACTOR MAY ELECT TO SUBSTITUTE #10R #2 CONCRETE COARSE AGGREGATE, SELECT CRUSHED MATERIAL OR OTHER GRANULAR MATERIAL AS APPROVED BY THE FIELD ENGINEER, IN LIEU OF THE BREAKER RUN, TO BE UTILIZED AS A CONSTRUCTION PLATFORM FOR THE BOX. THE CONTRACTOR IS RESPONSIBLE FOR BASE STABILITY WITH ANY SUBSTITUTED MATERIAL.

STREAM DIVERSION FOR STAGING TO BE PAID FOR UNDER ROADWAY BID ITEM "TEMPORARY STREAM DIVERSION CULVERT C-17-47".

4. APRON DETAILS

5. SUBSURFACE EXPLORATION

6. STAGES 1& 2A

7. STAGES 2B & 3

STACIE WEIS (608) 261-6109

DOMINIQUE BECHLE (608) 261-8205

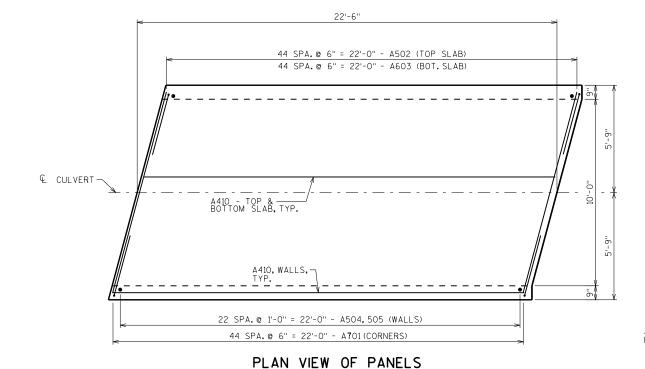
NO. DATE BY **BUREAU OF** MM CHIEF STRUCTURES DESIGN ENGINEER DATE

#### STRUCTURE C-17-47

STH 64 OVER BLAIRMOOR BRANCH WHEELER DESIGN SPEC.

AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS SEW CK'D. MJL BY SEW CK'D. MJL SHEET 1 OF

LAYOUT

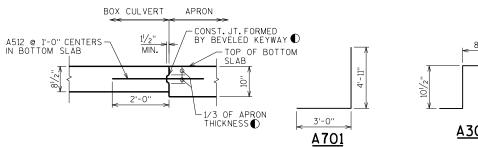


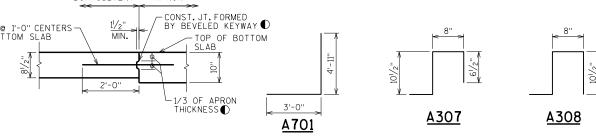
#### BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

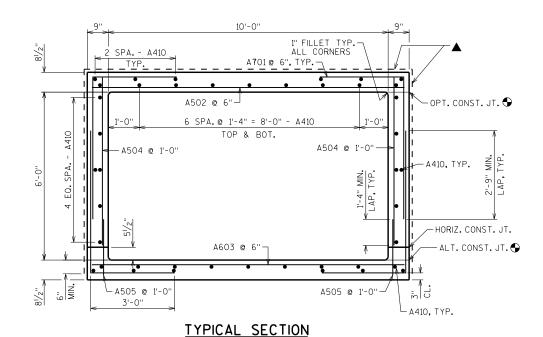
	BAR MARK	ORY	NO. REQ'D.	LENGTH	SEN N	BAR SERIES	LOCATION
	A <b>7</b> 01		<b>7</b> 20	<b>7</b> '-9"	Х		CORNERS
	A502		180	11'-6''			TOP SLAB - TRANS.
	A603		180	11'-6''			BOT. SLAB - TRANS.
	A504		184	6'-0"			WALLS - VERT.
	A505		184	2'-3''			WALLS - VERT DOWELS
	A406		4	11'-6''			HEADER - HORIZ.
	A30 <b>7</b>		16	2'-4"	Х		HEADER - VERT INLET
	A308		16	2'-8"	Х		HEADER - VERT OUTLET
	A509		<b>7</b> 2	4'-0"			VERT. CONST. JT.
	A410		168	22'-2"			TOP & BOT. SLAB & WALL LONGIT.
☆	A511		36	2'-6"			STAGING VERT. CONST. JT.
	A512		24	4'-0''			BOX APRON CONNECTION

☆ ADHESIVE ANCHORS NO.5 BAR AT STAGING JOINT.

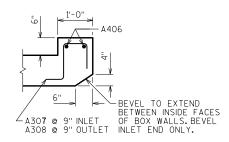




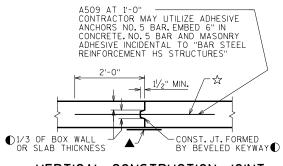
#### APRON CONNECTION DETAIL



THRU PANELS

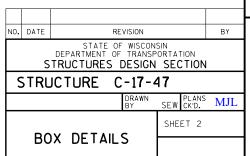


#### SECTION THRU HEADER



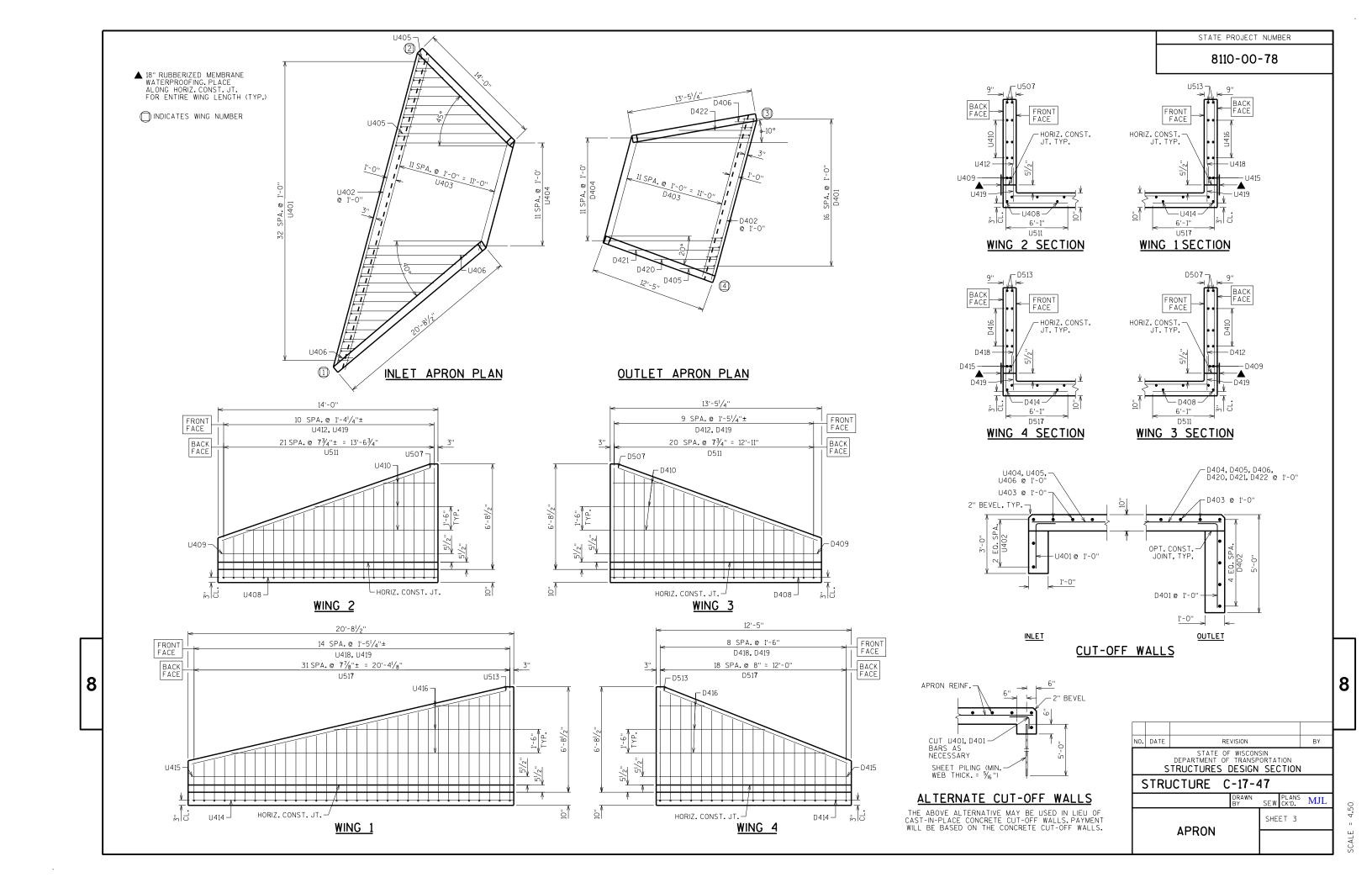
VERTICAL CONSTRUCTION JOINT

- IN LIEU OF CONSTRUCTION JOINTS IN THE BOTTOM SLAB, THE CONTRACTOR MAY USE 2" DEEP SAW CUTS WITHIN 12 HOURS AFTER POURING.
- ▲ 18" MIN. WIDTH RUBBERIZED MEMBRANE WATERPROOFING UP WALLS & ACROSS TOP SLAB AT VERTICAL CONSTRUCTION JOINTS. EXTEND 6" MIN. BELOW TOP OF BOTTOM SLAB.
- ◆ OMIT 1" FILLET IF JT. USED



8

= 2.50



8110-00-78

BILL OF BARS

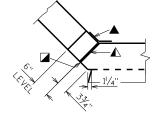
NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

BAR MARK	00 A	NO. REQ'D.	LENGTH	SEL Y	BAR SERIES	LOCATION
U401		33	3'-5"	Х		INLET APRON AND CUTOFF WALL - VERT.
U402		3	34'-9"			INLET APRON AND CUTOFF WALL - HORIZ.
U403		12	23'-0"		lacktriangle	INLET APRON
U404		12	12'-6"			INLET APRON
U405		9	6'-6"		lacktriangle	INLET APRON
U406		12	6'-7"		lacktriangle	INLET APRON
U50 <b>7</b>	Х	2	14'-5"			WING 2 - HORIZ TOP BOTH FACES
U408		2	13'-8"			WING 2 - HORIZ APRON BOT. SLAB
U409	Х	2	13'-8''			WING 2 - HORIZ BOTH FACES
U410	Х	6	7'-10''		lacktriangle	WING 2 - HORIZ BOTH FACES
U511	Х	22	10'-8"	Х	lacktriangle	WING 2 - VERT BACK FACE
U412	Х	11	3'-9"		lacktriangle	WING 2 - VERT FRONT FACE
U513	Х	2	20'-10"			WING 1 - HORIZ TOP BOTH FACES
U414		2	20'-3"			WING 1 - HORIZ APRON BOT. SLAB
U415	Х	2	20'-3"			WING 1 - HORIZ BOTH FACES
U416	Х	6	11'-4''		lacktriangle	WING 1 - HORIZ BOTH FACES
U51 <b>7</b>	Х	32	10'-8"	Х	lacktriangle	WING 1 - VERT BACK FACE
U418	Х	15	3'-9"		lacktriangle	WING 1 - VERT FRONT FACE
U419	Х	26	2'-3"			WINGS 1 & 2 - DOWELS - FRONT FACE
D401		17	5'-5"	Х		OUTLET APRON AND CUTOFF WALL - VERT
D402		5	17'-11			OUTLET APRON AND CUTOFF WALL - HORIZ.
D403		12	14'-9"		lacktriangle	OUTLET APRON
D404		12	12'-6"			OUTLET APRON
D405		1	3'-9"			OUTLET APRON
D406		1	2'-3"			OUTLET APRON
D50 <b>7</b>	Х	2	13'-11"			WING 3 - HORIZ TOP BOTH FACES
D408		2	13'-0"			WING 3 - HROIZ APRON BOT. SLAB
D409	Х	2	13'-0"			WING 3 - HORIZ BOTH FACES
D410	Х	6	7'-4"		lacktriangle	WING 3 - HORIZ BOTH FACES
D511	Х	21	10'-8"	Х	lacktriangle	WING 3 - VERT BACK FACE
D412	Х	10	3'-9"		lacktriangle	WING 3 - VERT FRONT FACE
D513	Х	2	12'-10"			WING 4 - HORIZ TOP BOTH FACES
D414		2	12'-0"			WING 4 - HORIZ APRON BOT. SLAB
D415	Х	2	12'-0"			WING 4 - HORIZ BOTH FACES
D416	Х	6	6'-10''		lacktriangle	WING 4 - HORIZ BOTH FACES
D517	Х	19	10'-8"	Х	lack	WING 4 - VERT BACK FACE
D418	Х	9	3'-9"		lacktriangle	WING 4 - VERT FRONT FACE
D419	Х	19	2'-3"			WINGS 3 & 4 - DOWELS - FRONT FACE
D420		1	6'-9"			OUTLET APRON
D421		1	9'-10''			OUTLET APRON
D422		1	7'-7"			OUTLET APRON

#### BAR SERIES TABLE

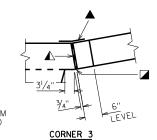
<u> </u>		
BAR MARK	NO. REQ'D.	LENGTH
U403	1 SERIES OF 12	11'-11'' TO 34'-0''
U405	1 SERIES OF 9	1'-5" TO 11'-6"
U406	1 SERIES OF 12	1'-6" TO 11'-9"
U410	2 SERIES OF 3	3'-6'' T0 12'-1''
U511	1 SERIES OF 22	8'-4'' T0 13'-0''
U412	1 SERIES OF 11	1'-5" T0 6'-0"
U416	2 SERIES OF 3	4'-10'' T0 1 <b>7</b> '-10''
U51 <b>7</b>	1 SERIES OF 32	8'-4'' T0 13'-0''
U418	1 SERIES OF 15	1'-5" T0 6'-0"
D403	1 SERIES OF 12	11'-8'' TO 1 <b>7</b> '-9''
D410	2 SERIES OF 3	3'-2'' TO 11'-6"
D511	1 SERIES OF 21	8'-4'' T0 13'-0''
D412	1 SERIES OF 10	1'-5" T0 6'-0"
D416	2 SERIES OF 3	3'-0'' T0 10'-8''
D517	1 SERIES OF 19	8'-4'' T0 13'-0''
D418	1 SERIES OF 9	1'-5" T0 6'-0"

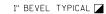
BUNDLE AND TAG EACH SERIES SEPARATELY.

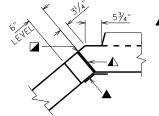


♠ ¾4" FILLER TYPICAL.

EXTEND FILLER FROM
HORIZ. CONST. JT. TO
TOP OF WING.



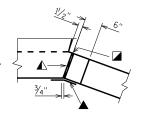




CORNER 1

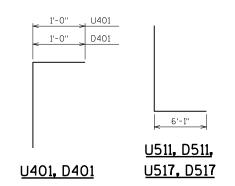
CORNER 2

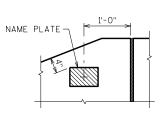
▲ 18" RUBBERIZED MEMBRANE WATER-PROOFING.EXTEND FROM HORIZ.CONST. JT. TO TOP OF WALL.



CORNER 4

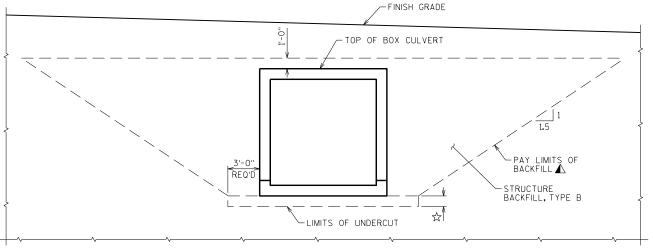
#### CORNER DETAILS





NAME PLATE LOCATION WING 4

⚠ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

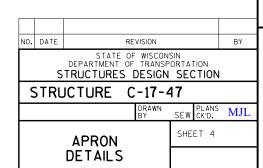


TYPICAL SECTION

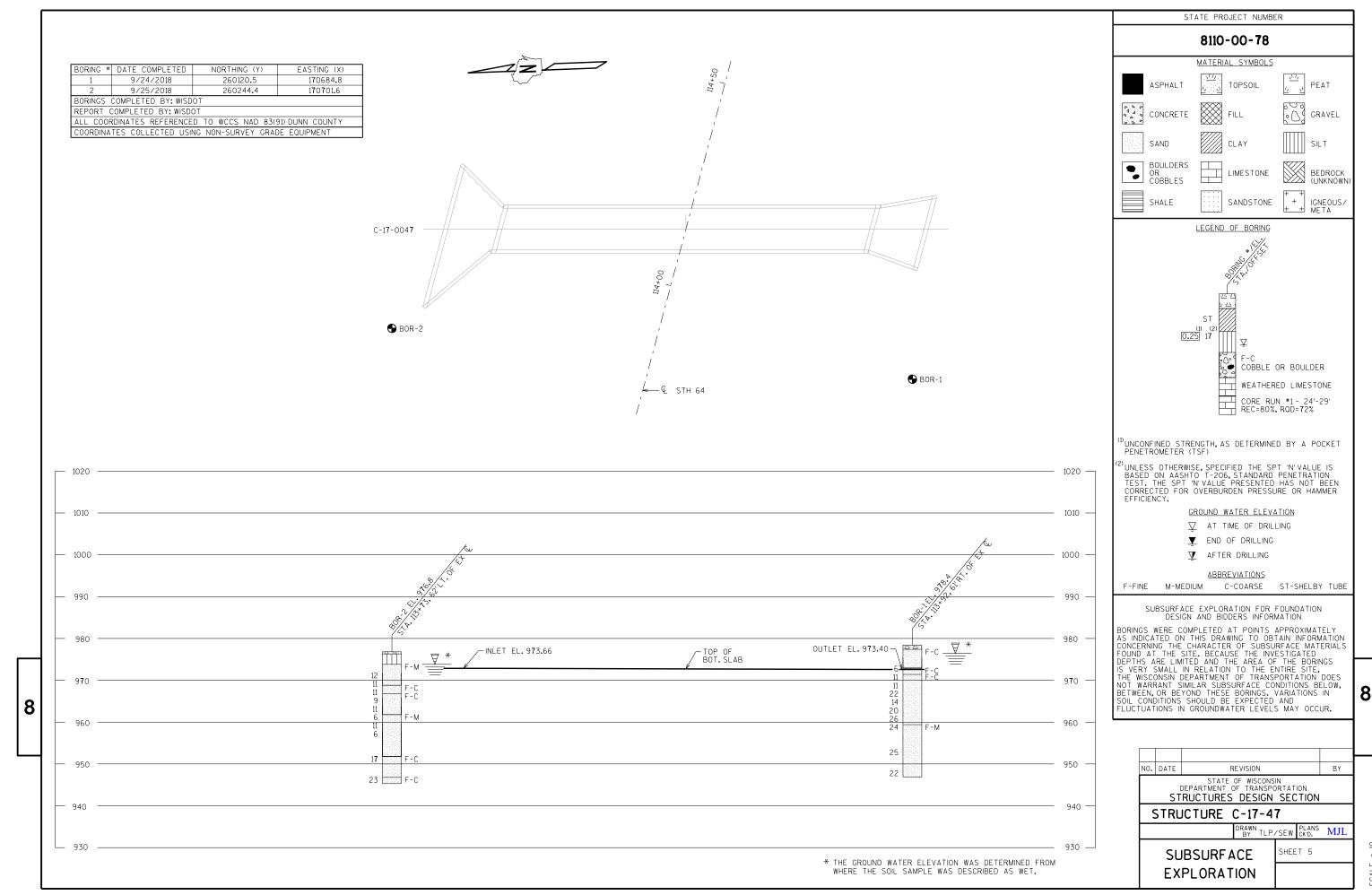
THRU BOX CULVERT

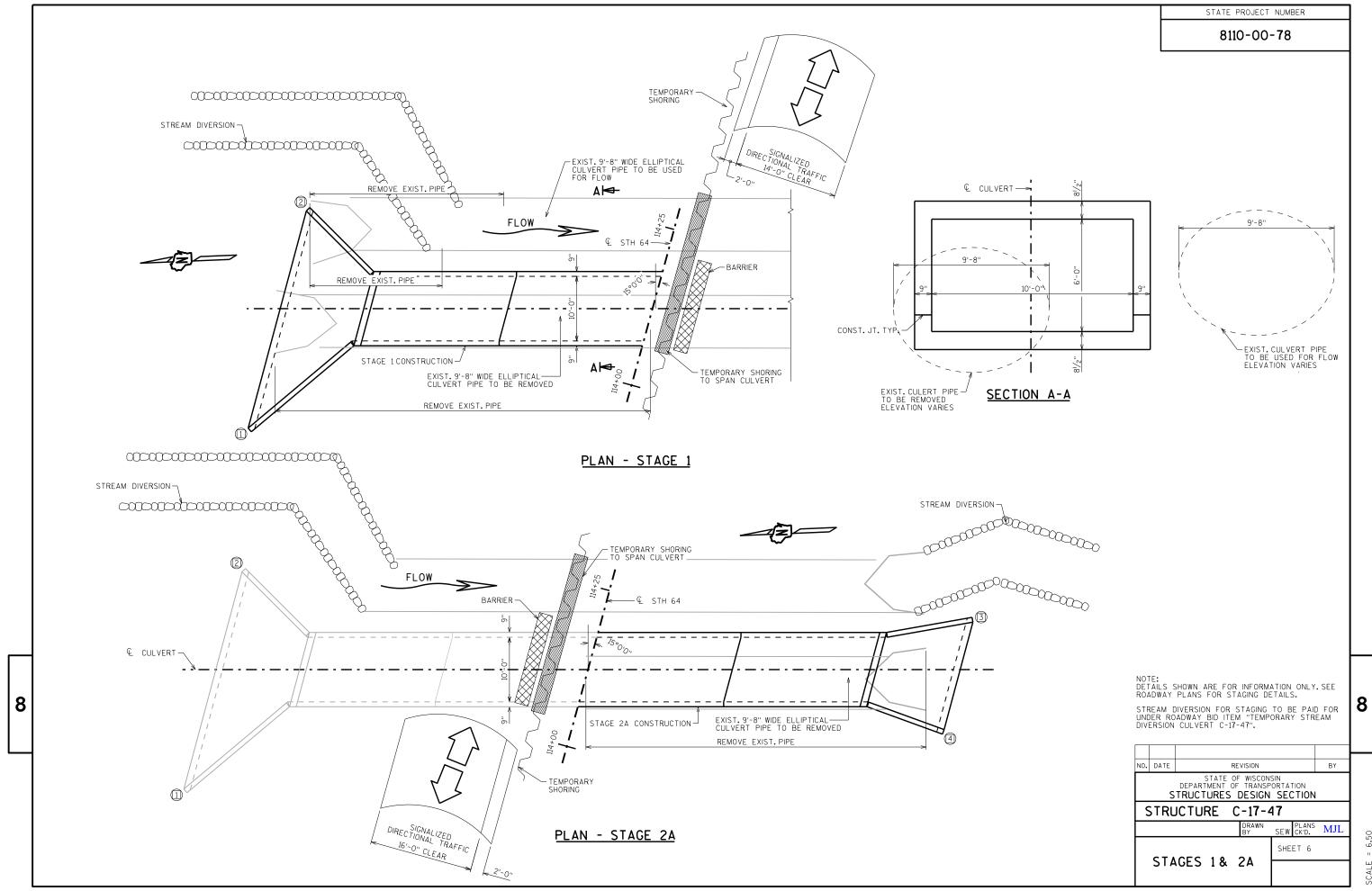
⚠ BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

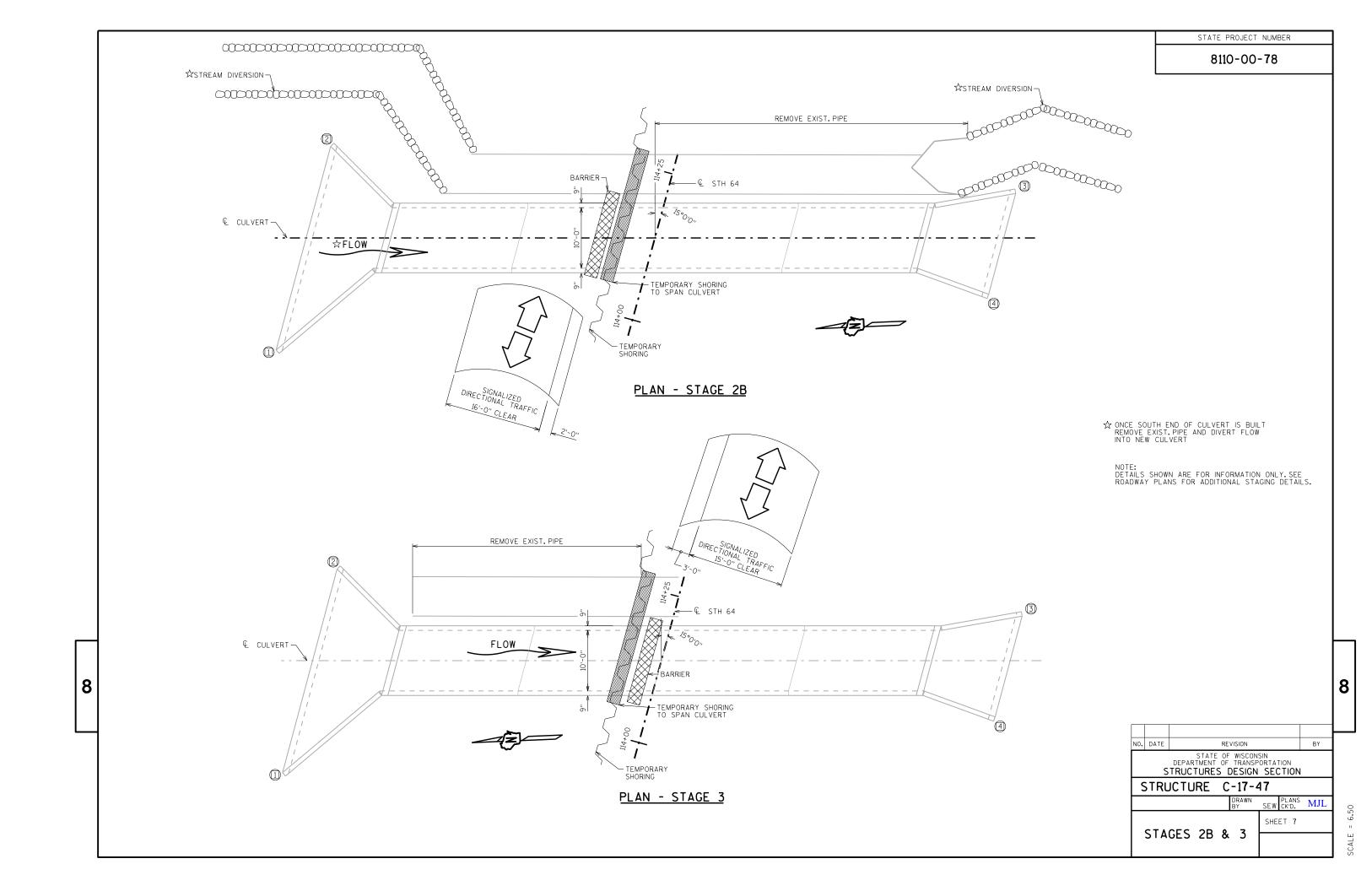
☆ UNDER CUT 1'-0".EXCAVATION FOR UNDER CUT TO BE INCLUDED IN EXCAVATION FOR STRUCTURES.PLACE "GEOTEXTILE TYPE C" AND BACKFILL WITH "BREAKER RUN".



8







Total Volume Table									
Station	Cut Area	Fill Area	Cut Vol	Unusable Cut	Cum Cut Vol	Fill Vol	Cum Fill Vol		
112+86.00	12.00	0.00	0.00	0.00	0.00	0.00	0.00		
113+00.00	12.49	0.00	6.35	6.35	6.35	0.00	0.00		
113+25.00	11.92	0.29	11.30	11.30	17.65	0.17	0.17		
113+50.00	25.96	0.00	17.54	17.54	35.19	0.17	0.33		
113+75.00	28.27	0.00	25.10	25.10	60.29	0.00	0.33		
113+86.00	81.70	0.05	22.40	22.40	82.69	0.01	0.34		
114+00.00	66.47	0.00	38.42	38.42	121.11	0.02	0.36		
114+25.00	78.62	6.10	67.17	67.17	188.28	3.53	3.89		
114+43.00	70.78	0.00	49.80	49.80	238.08	2.54	6.43		
114+50.00	30.66	0.00	13.15	13.15	251.23	0.00	6.43		
114+75.00	21.31	0.00	24.06	24.06	275.30	0.00	6.43		
115+00.00	25.87	0.23	21.84	21.84	297.14	0.13	6.57		
115+25.00	18.80	2.17	20.68	20.68	317.82	1.39	7.96		
115+43.00	16.84	0.62	11.88	11.88	329.69	1.16	9.12		

ASPHALT PAVEMENT REMOVAL IS INCLUDED IN THIS TABLE, TEMPORARY ASPHALT REMOVAL IS NOT. SEE MQ TABLE FOR TEMPORARY ASPHALT REMOVAL CUT QUANTITY.

\*1.25 fill factor

#### CUT/FILL REPORT 1: STAGE 3 COMMON EXCAVATION FOR CULVERT REMOVAL

Volume	Volume Summary							
Name	Туре	Cut Factor	Fill Factor	2d Area (Sq. Ft.)	Cut (Cu. Yd.)	Fill (Cu. Yd.)	Net (Cu. Yd.)	
stage 3 culvert removal	full	1.000	1.000	331.76	90.23	0.00	90.23 <cut></cut>	

TABLE 2: BORROW BETWEEN CULVERT BACKFILL AND ROAD BASE

	Total Volume Table						
	Station	Cut Area	Fill Area	Fill Vol	Cum Fill Vol		
STATIONING ALONG	0+00.00	0.00	0.00	0.00	0.00		
	0+10.00	41.16	0.65	0.15	0.15		
	0+20.00	14.33	73.16	17.09	17.24		
	0+30.00	6.44	181.12	58.86	76.10		
	0+40.00	0.00	210.29	90.60	166.70		
	0+50.00	0.00	191.28	92.96	259.65		
LENGTH	0+60.00	0.00	164.81	82.43	342.08		
OF BOX CULVERT	0+70.00	0.55	146.25	72.01	414.09		
\	0+80.00	3.34	124.47	62.67	476.76		
	0+90.00	7.06	104.10	52.91	529.67		
	1+00.00	19.80	53.07	36.38	566.05		
	1+10.00	6.48	0.37	12.37	578.42		
	1+20.00	0.00	0.00	0.08	578.50		
1	1+23.77	0.00	0.00	0.00	578.50		

\*1.25 fill factor

#### CUT/FILL REPORT 2: STAGE 3 BORROW FOR CULVERT REMOVAL

Volume Summary							
Name	Type	Cut Factor	Fill Factor	2d Area (Sq. Ft.)	Cut (Cu. Yd.)	Fill (Cu. Yd.)	Net (Cu. Yd.)
stage 3 culvert removal	full	1.000	1.250	331.76	0.00	112.79*	112.79*

113 CY BORROW - 90 CY USABLE CUT = 23 CY BORROW

\*1.25 fill factor

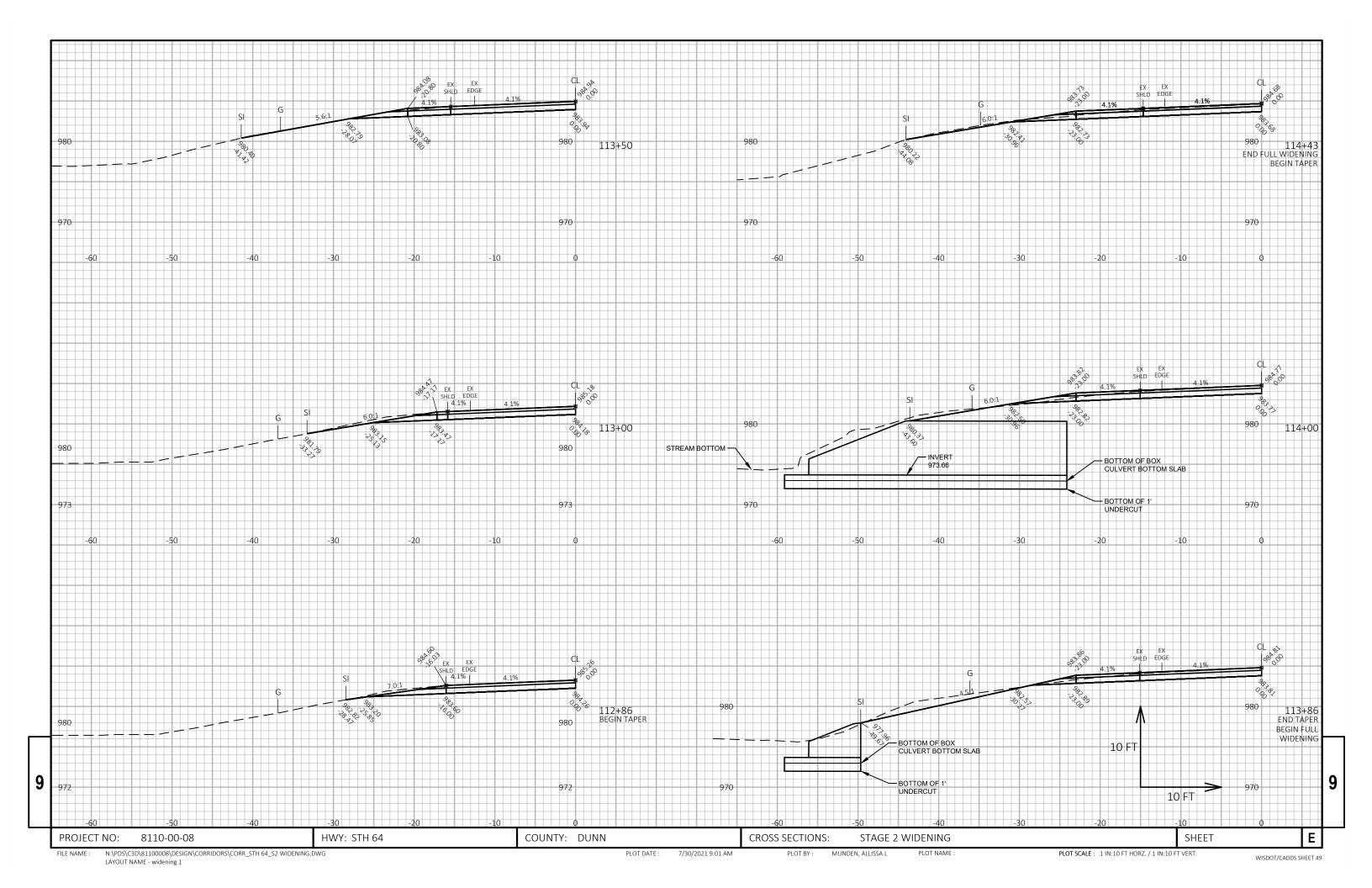
SHEET

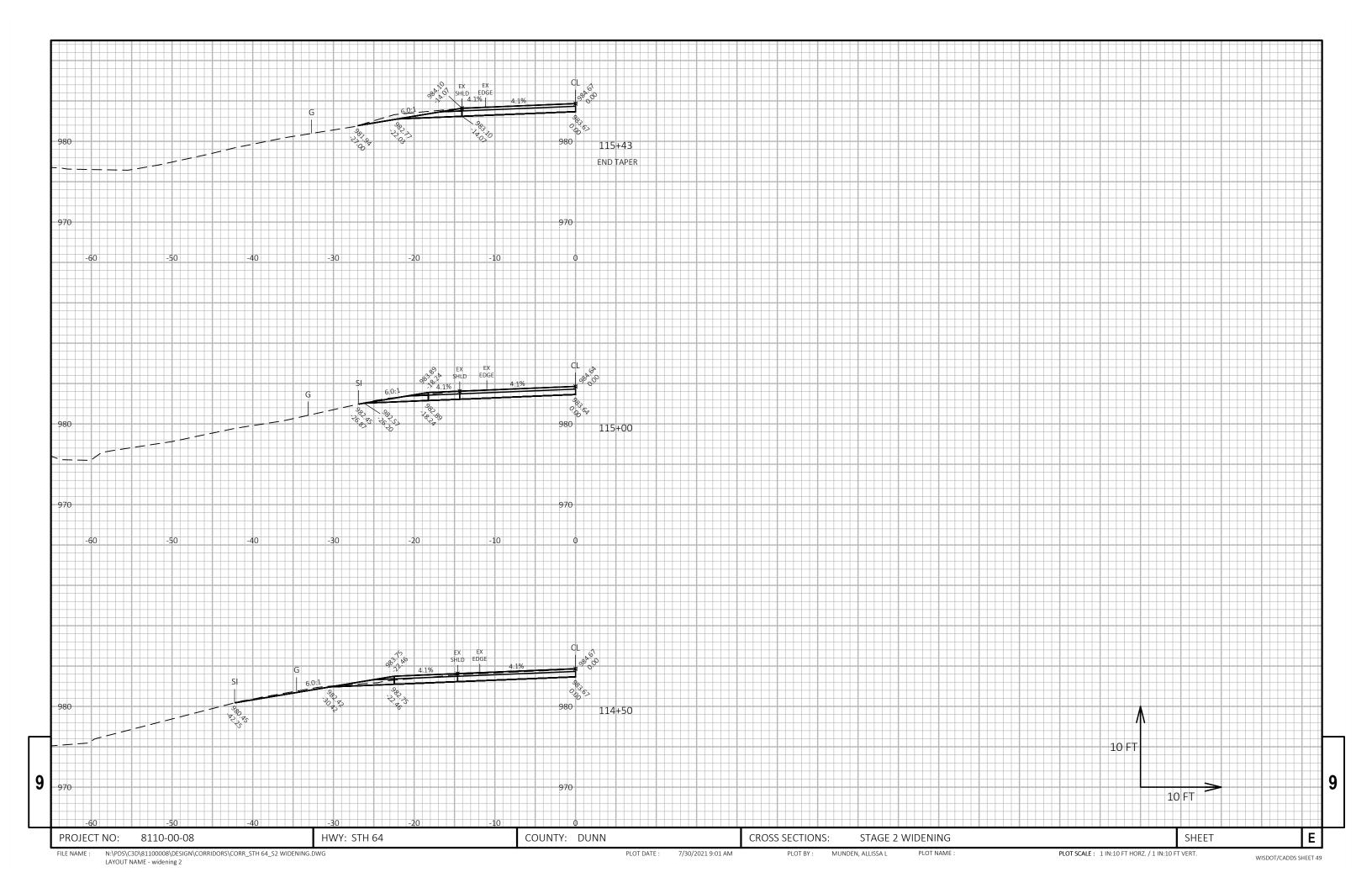
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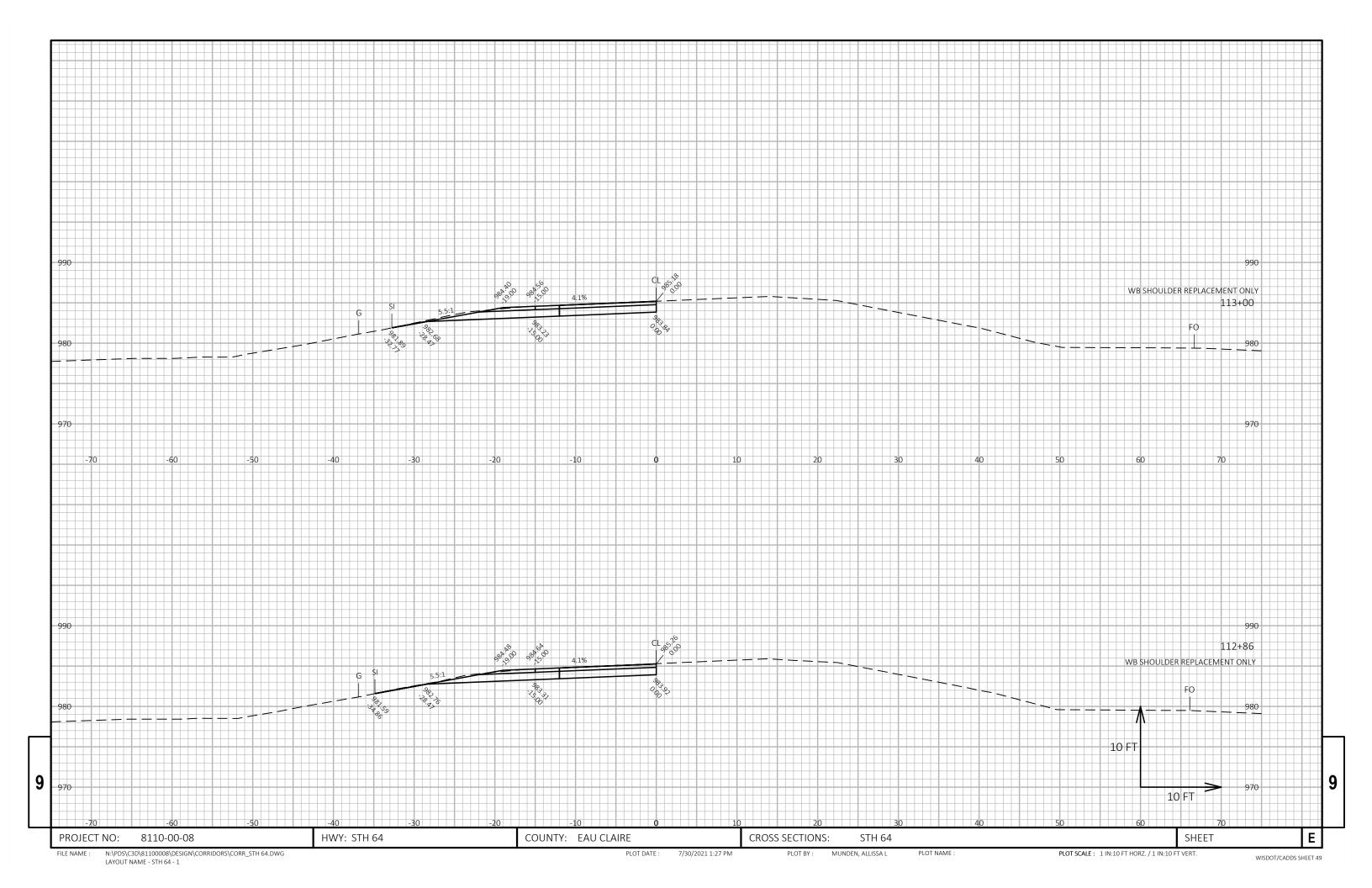
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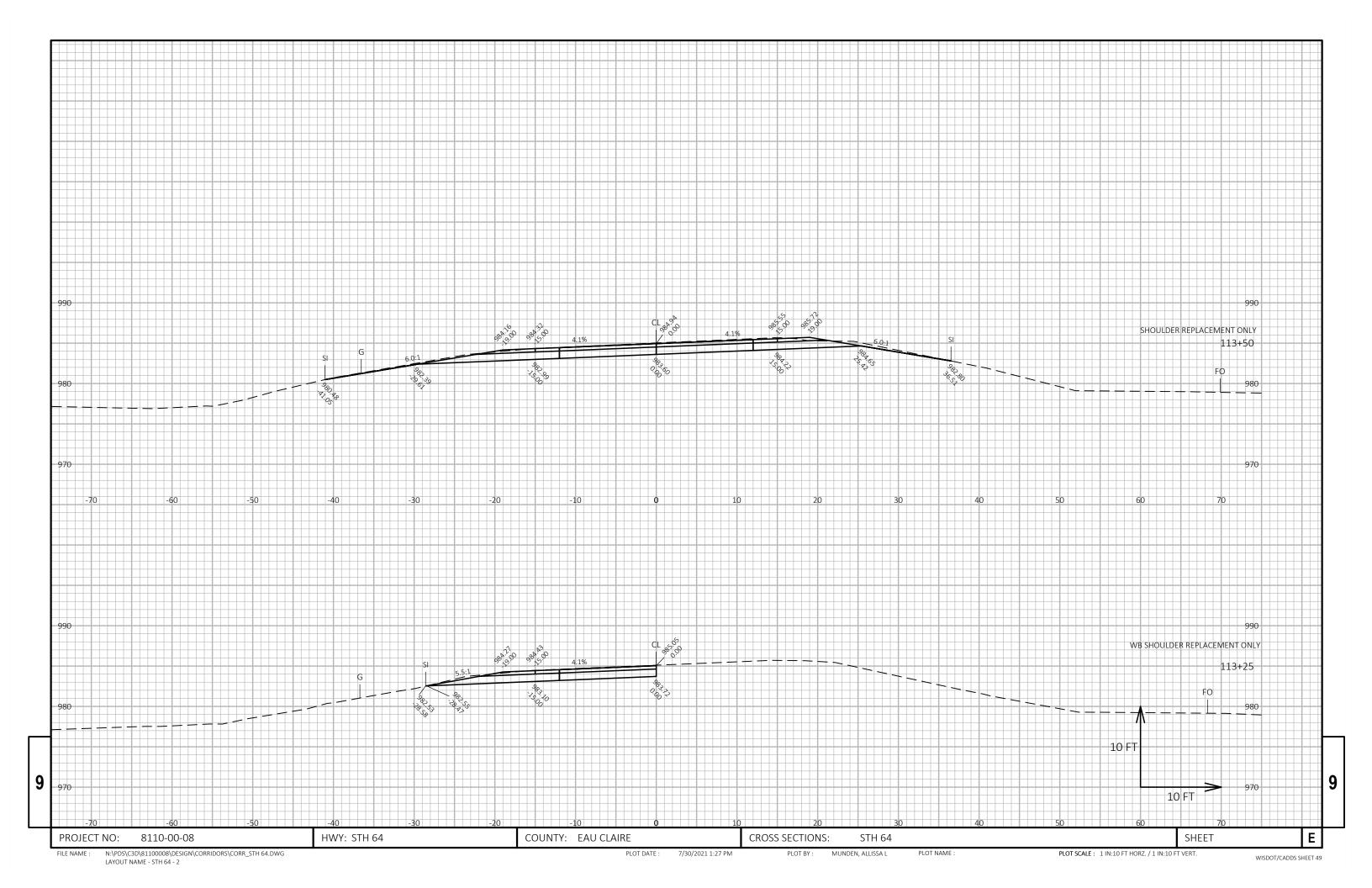
WISDOT/CADDS SHEET 44

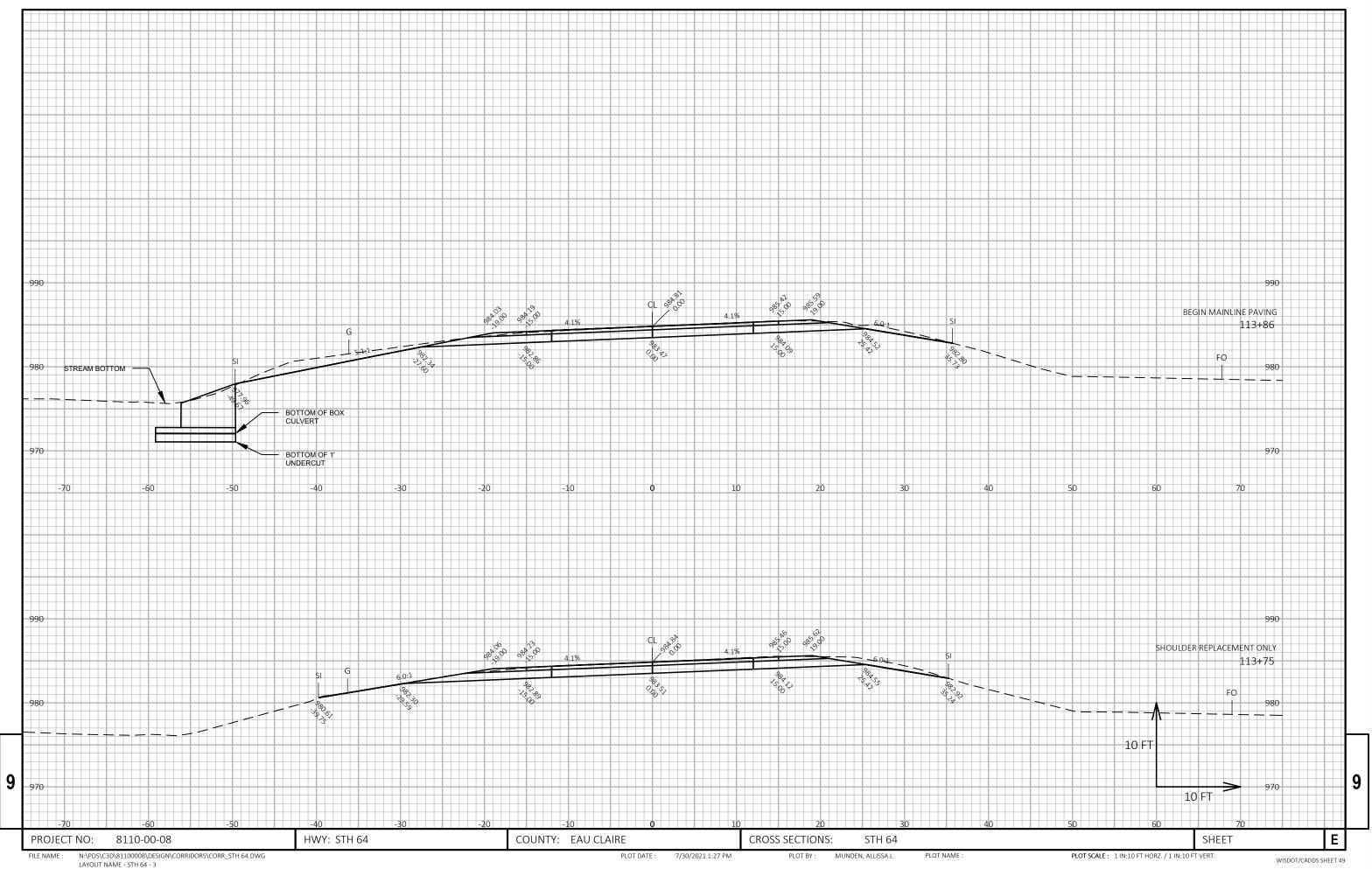
N:\PDS\C3D\81100008\DESIGN\SURFACES\SURF\_BORROW CALC.DWG PLOT DATE : 9/1/2021 12:09 PM PLOT BY: MUNDEN, ALLISSA L PLOT NAME : PLOT SCALE :

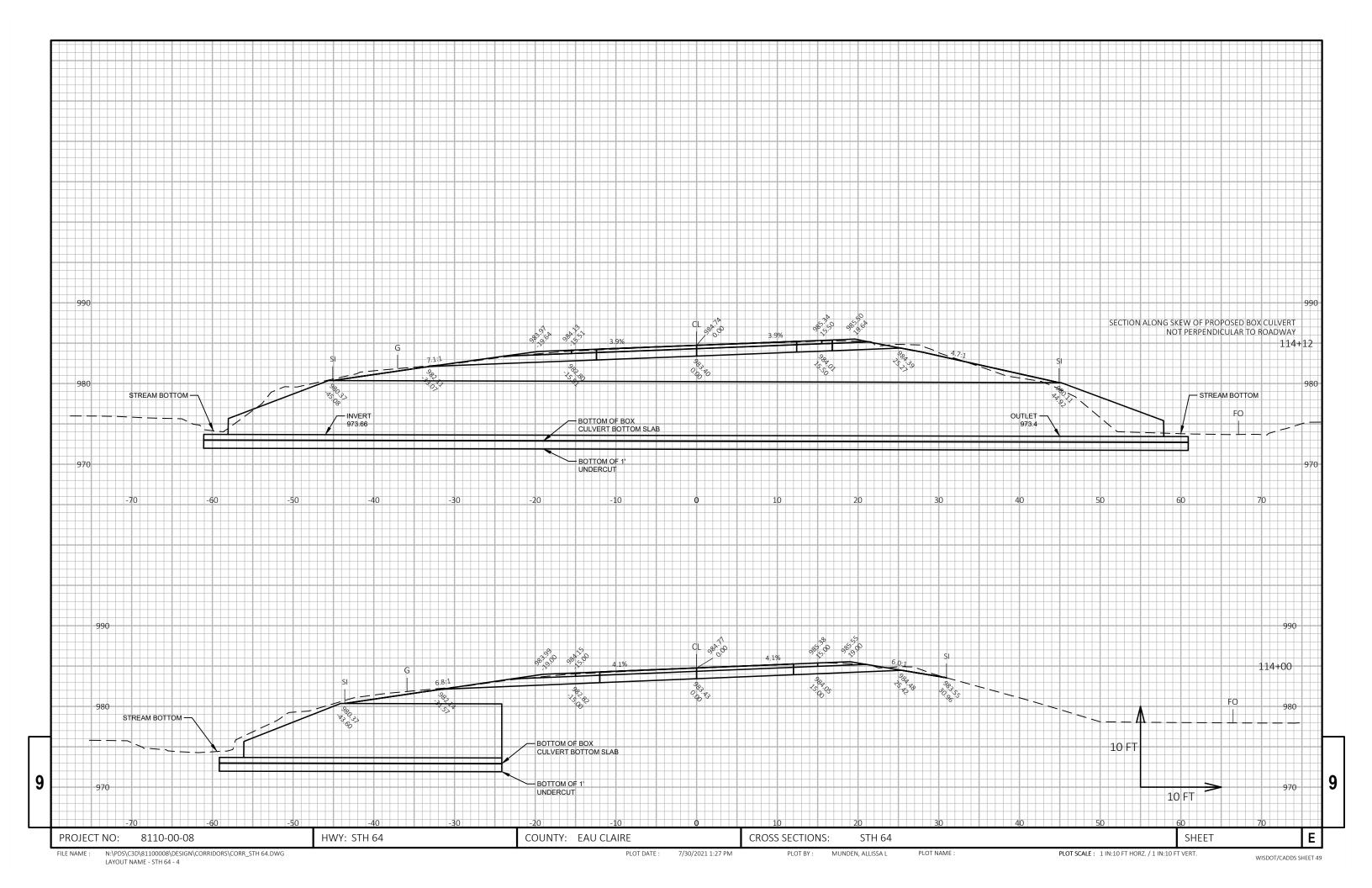


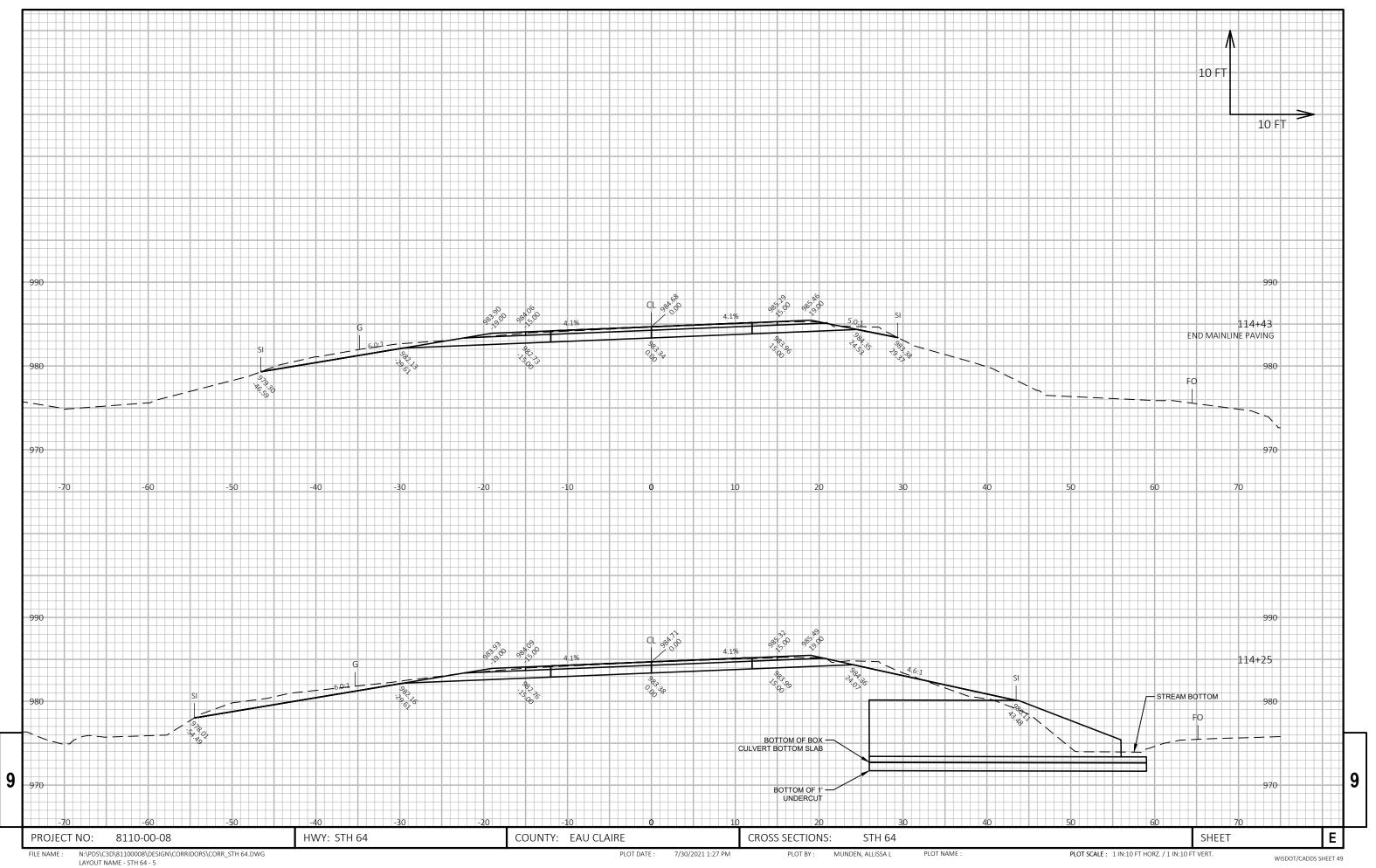


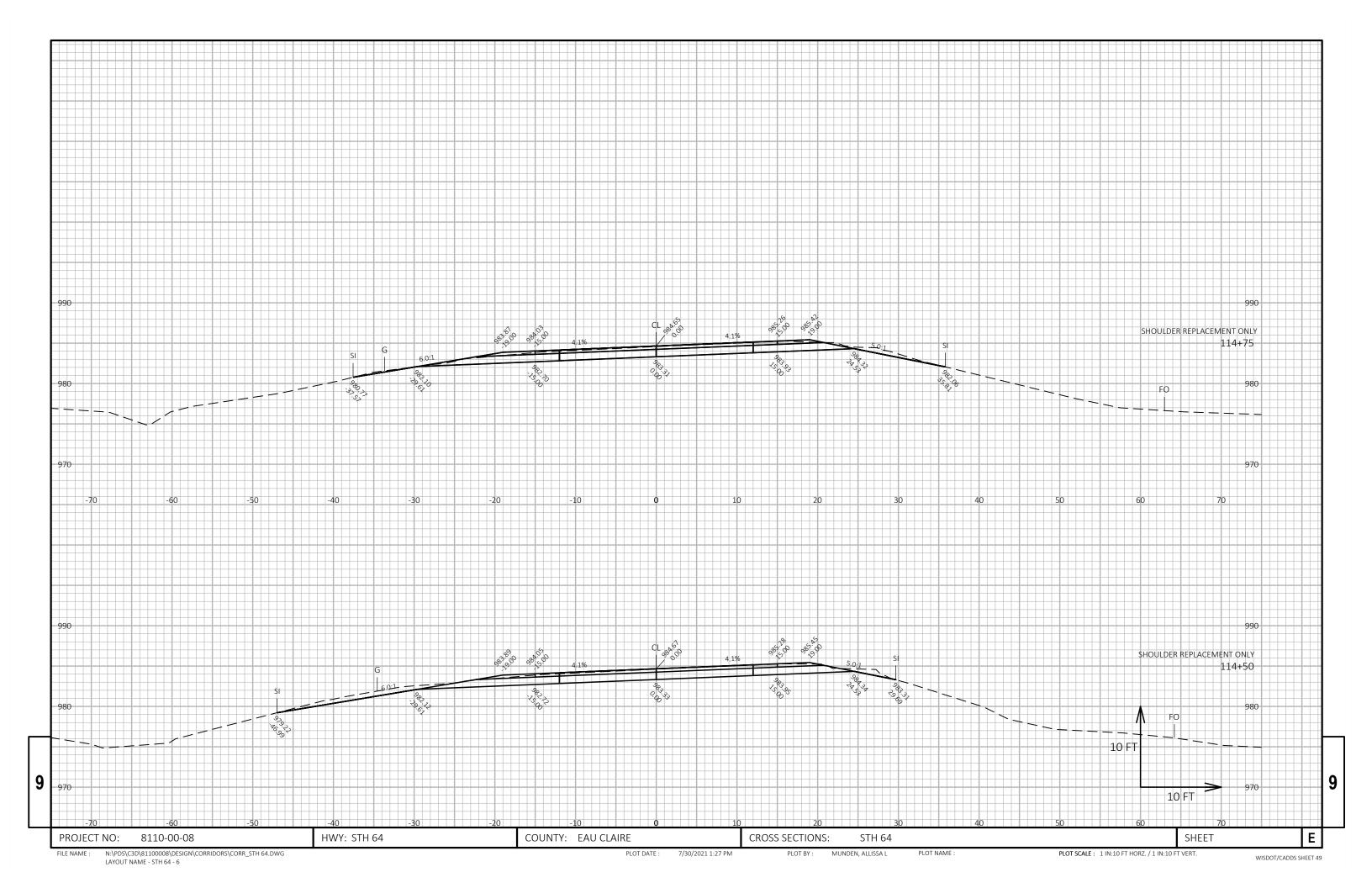


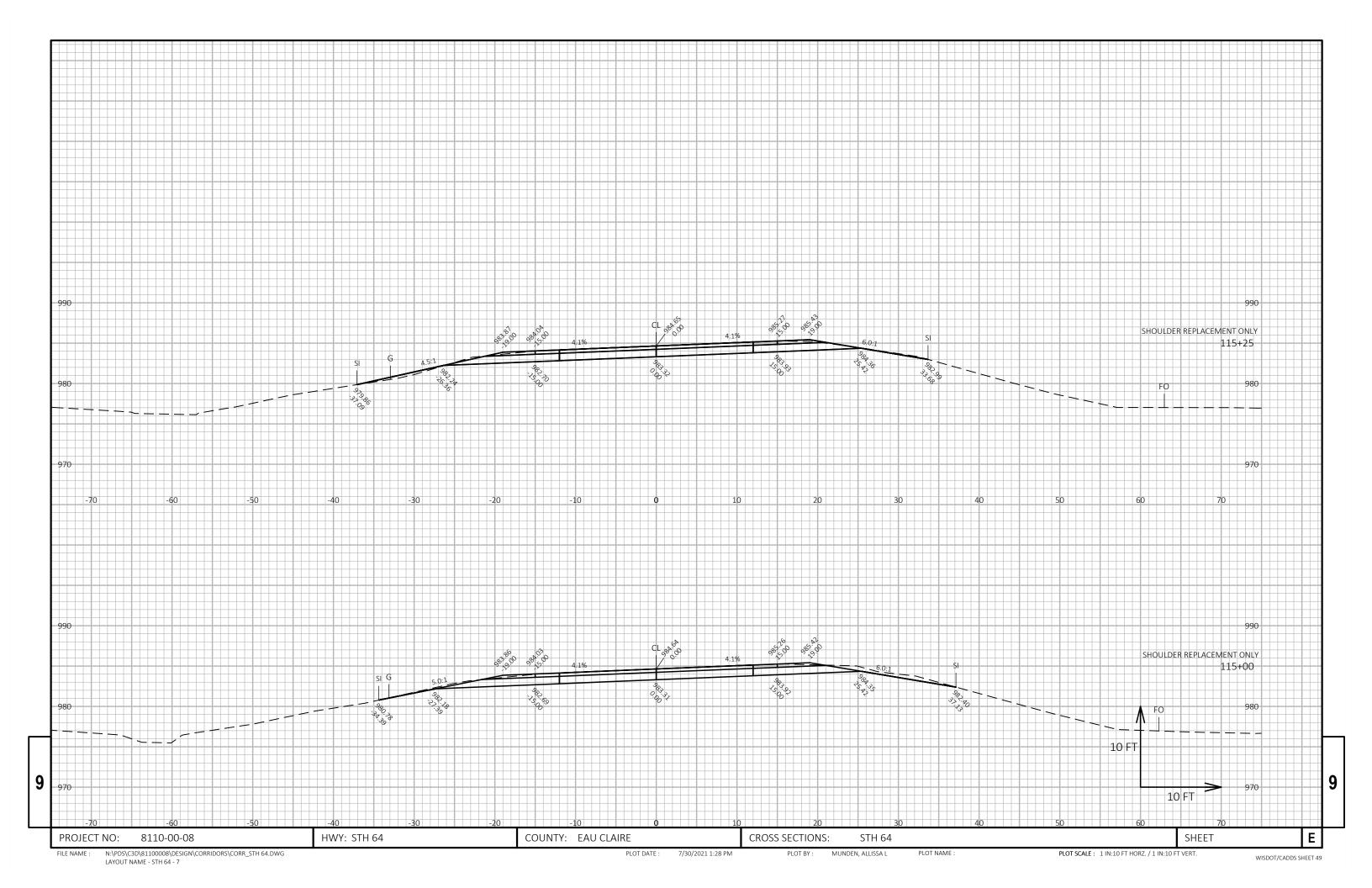


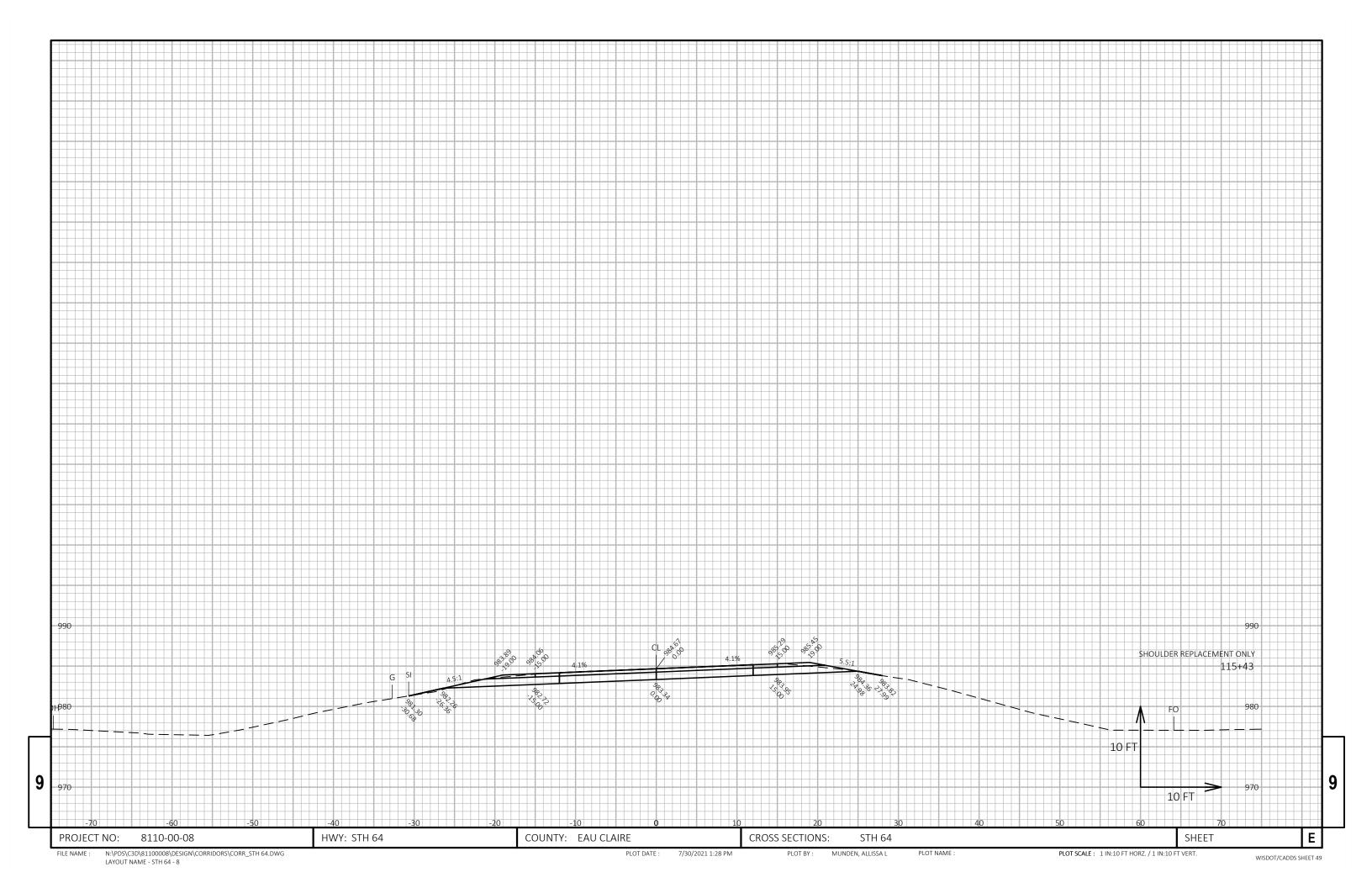












Notes



# Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

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