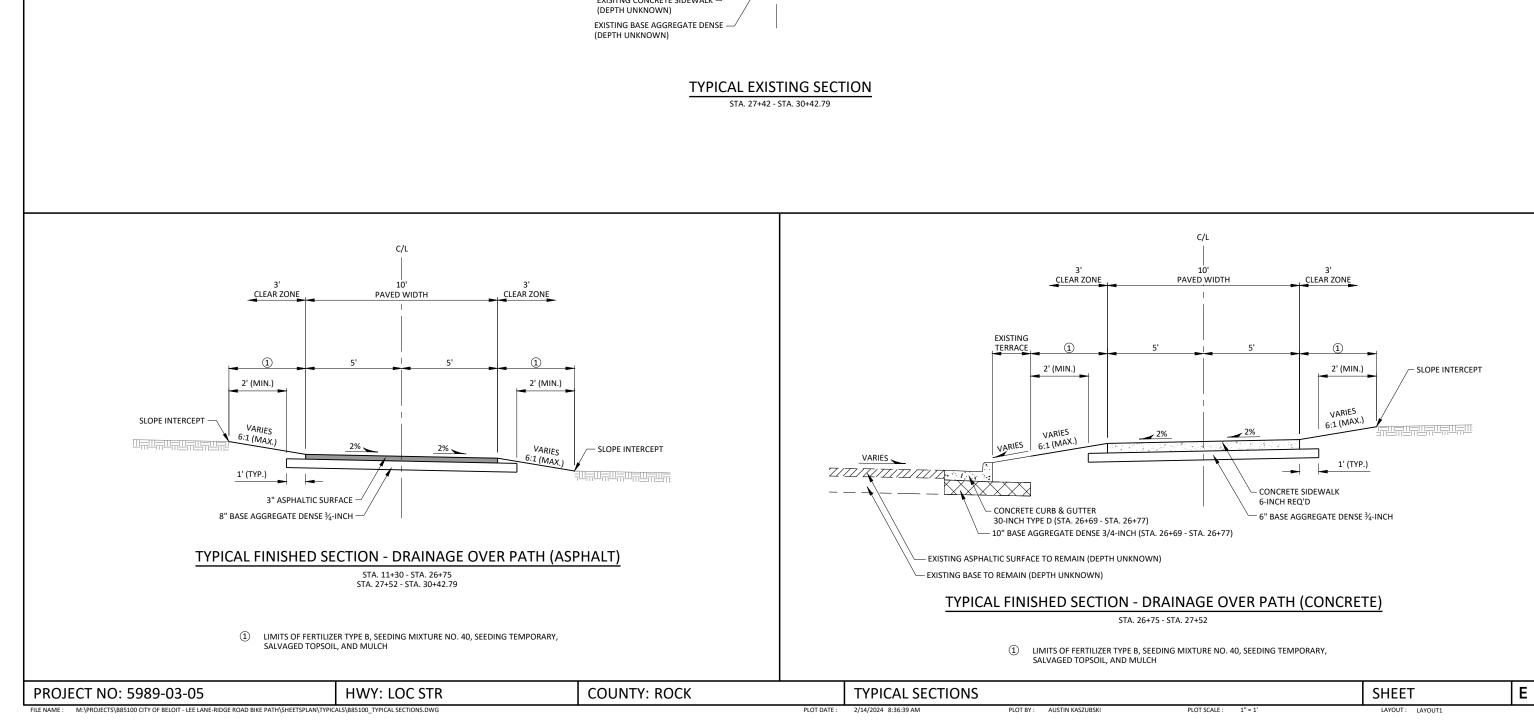


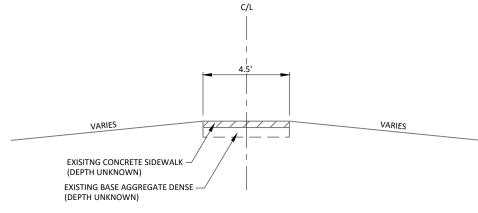
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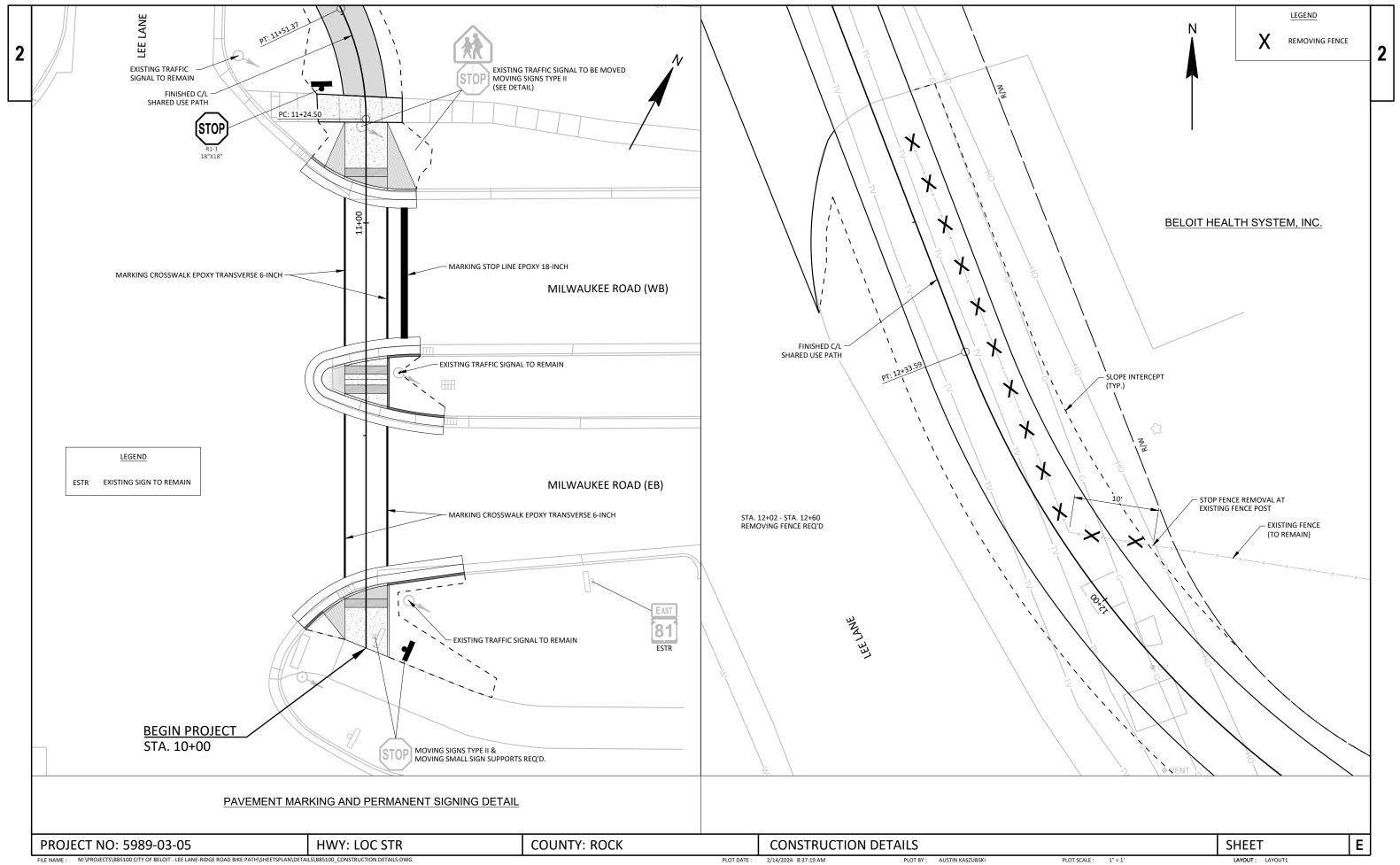
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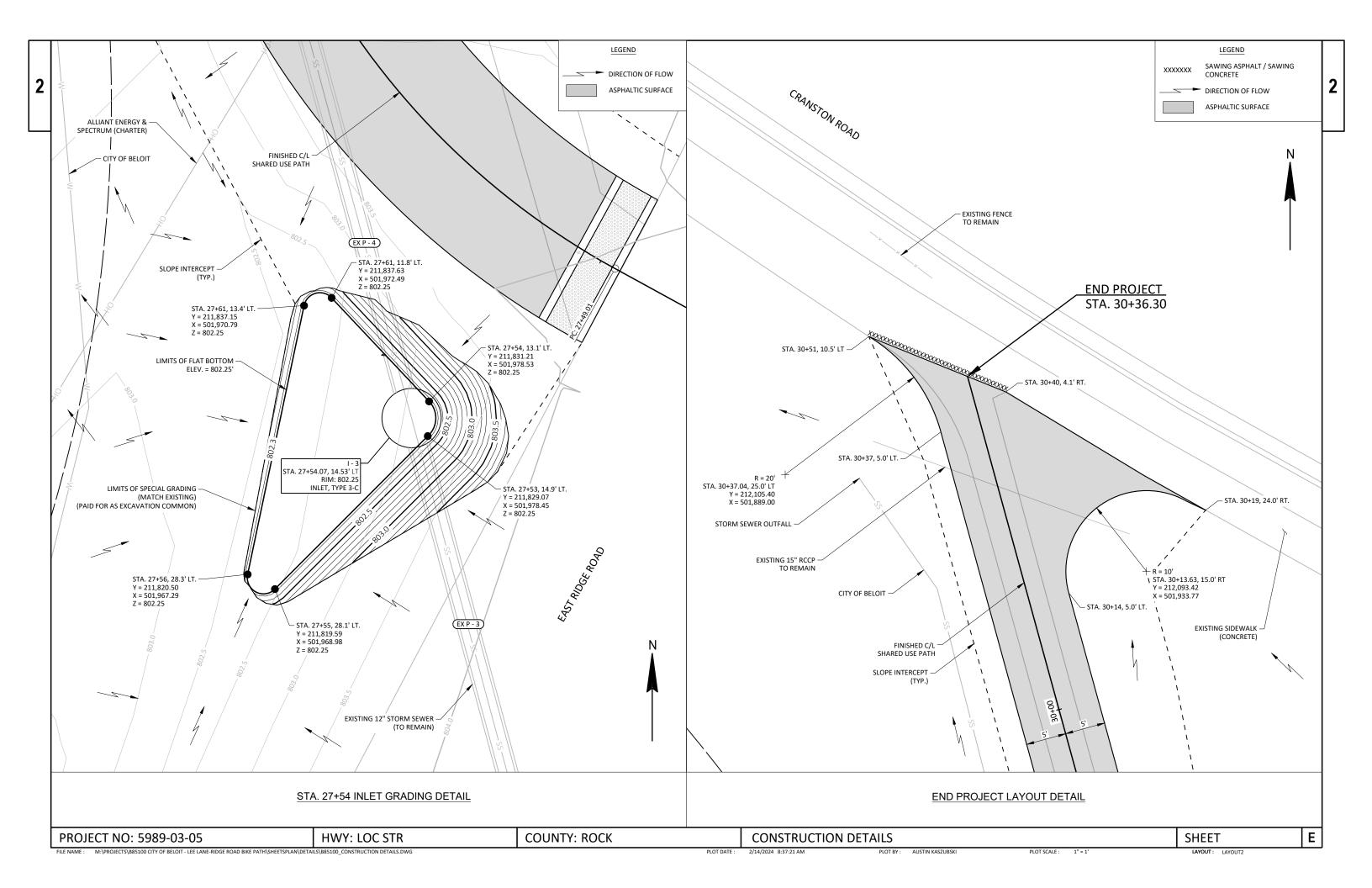
	FE	EDERAL PROJ	ECT
STATE PROJECT	P	ROJECT	CONTRACT
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	CITY	of	BELOIT
	ilaland	14	itut
	(Date)	(City	Engineer)
	ORIGI	AL PLANS PREPAR	ED BY
		1/15	
		lates enginee eers - Architects - 1	
	- S2		
		SCONS/	1.
		JEFFREY D SMITH E-36291 VERONA WI	
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	THE REAL PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY ADDR	TE OF WISCON NT OF TRANSF	
	PREPARED BY		
	Surveyor	R.H. BATTERN	1AN & CO., INC.
	Designer	And a state state of the state	ES ENGINEERS, INC.
	Project Manager	-	EARSON, P.E.
	Regional Examiner Regional Supervisor	10-10-10-10-10-10-10-10-10-10-10-10-10-1	EMP, P.E.
SIN			
GRID	APPROVED FOR THE DEPAF	RTMENT 31	5
DISTANCES	01/16/24	116	ha
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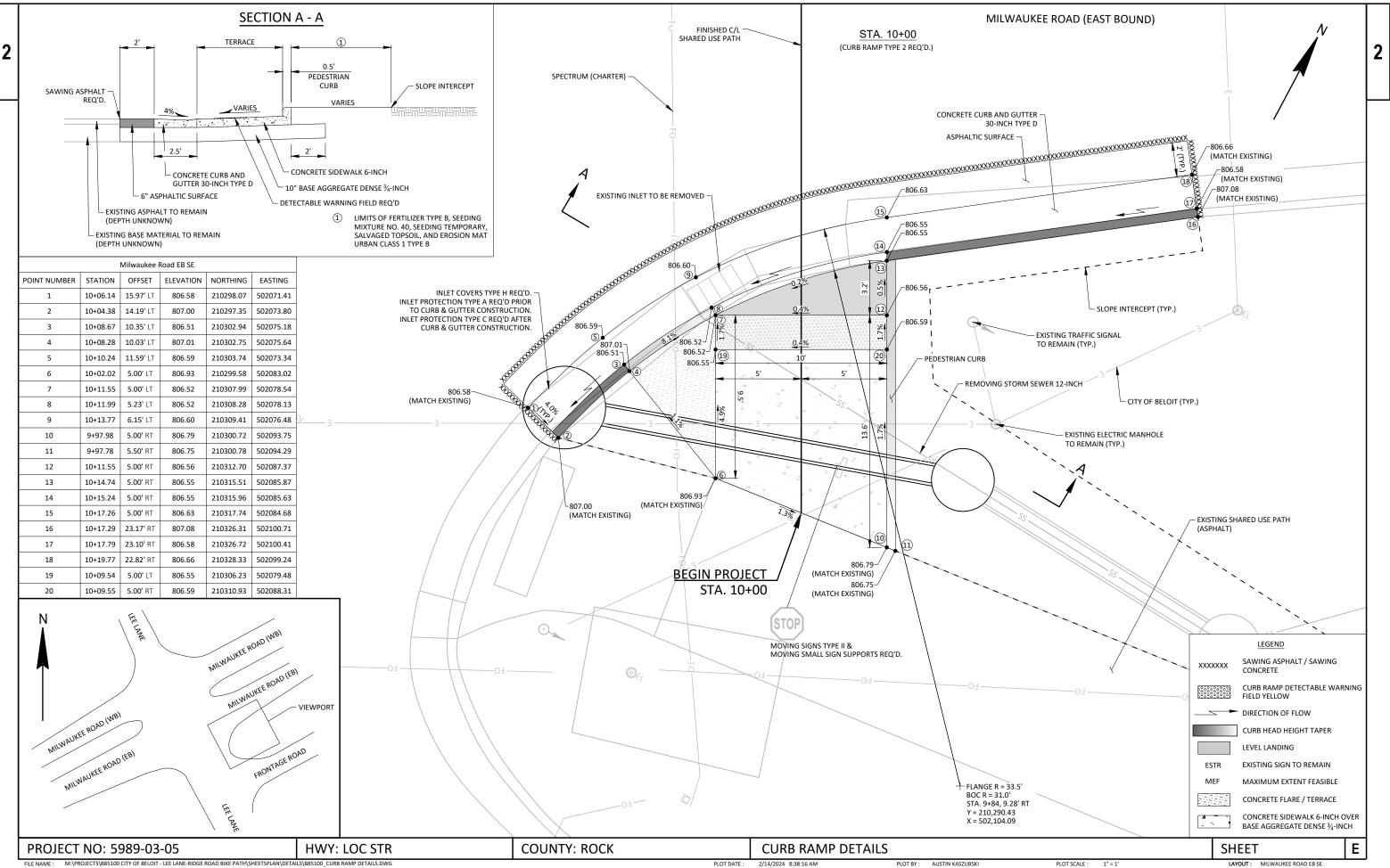
	GENERAL NOTES	CON	TACTS			LIST OF STA	NDARD ABBREVIATIO	NS		
2	EROSION CONTROL ITEMS IN THE MISC. QUAN. ARE SUGGESTED. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD. MAINTAIN EROSION CONTROL ITEMS UNTIL SUCH TIME AS THE ENGINEER DETERMINES THE MEASURE IS NO LONGER NECESSARY. DISTURBED AREAS SHOWN WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED LANE EDGES ARE TO BE FERTILIZED (TYPE B), SEEDED (USE SEEDING TEMPORARY, & SEED MIX NO. 40), AND MULCH AS DIRECTED BY THE ENGINEER.	DESIGN CONSULTANT: JEWELL ASSOCIATES ENGINEERS, INC. 1001 FOURIER DRIVE, SUITE 104 MADISON, WI 53717 ATTN: JEFF SMITH, P.E. PH: (608) 459-6091 EMAIL: jeff.smith@jewellassoc.com	CITY OF BELOIT: SCOT PRINDIVILLE, P.E. 2400 SPRINGBROOK ROAD BELOIT, WI 53511 PH: (608) 364-6690 EMAIL: PrindivilleS@beloitwi.gov	ABUT AC AGG AH < ASPH AVG ADT	Abutment Acre Aggregate Ahead Angle Asphaltic Average Average Daily Traffic	INV IP IRS JT JCT LHF L LIN FT	Invert Iron Pipe or Pin Iron Rod Set Joint Junction Left-Hand Forward Length of Curve Linear Foot	RDWY SALV SAN S SEC SHLDR SHR SW S	Roadway Salvaged Sanitary Sewer Section Shoulder Shrinkage Sidewalk South	
	WHEN THE QUANTITY OF THE ITEM OF BASE AGGREGATE DENSE OR ASPHALTIC SURFACE IS MEASURED FOR PAYMENT BY THE TON, THE DEPTH OR THICKNESS OF THE COURSE SHOWN ON THE PLANS IS APPROXIMATE, AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER IN THE FIELD. ASPHALTIC SURFACE QUANTITIES WERE CALCULATED USING 112 LB/SY/IN. 3-INCHES OF ASPHALTIC SURFACE SHALL BE CONSTRUCTED WITH A SINGLE 3-INCH LAYER OF ASPHALTIC SURFACE.	WDNR LIAISON: WISCONSIN DEPT. OF NATURAL RESOURCES 3911 FISH HATCHERY ROAD FITCHBURG, WI 53711 ATTN: SHELLEY NELSON PH: (608) 444-2835 EMAIL: shelley.nelson@wisconsin.gov		BAD BK BF BM BR C or C/L CC C.E. CTH CR	Base Aggregate Dense Back Back Face Bench Mark Bridge Center Line Center to Center Commercial Entrance County Trunk Highway Creek	OT LF LC MH MB ML oT M/L N Y OD PLE PT	Long Chord of Curve Manhole Mailbox Match Line North North Grid Coordinate Outside Diameter Permanent Limited Easement Point	SQ SF or SQ FT SY or SQ YD STD STH STA SS SG SE	Square Square Feet Square Yard Standard Standard Detail Drawings State Trunk Highways Station Storm Sewer Subgrade Supgrelevation	
	PAVING LIMITS AT DRIVEWAYS ARE TO BE DETERMINED IN THE FIELD BY THE ENGINEER.		ITIES	CR CY or CU YD CP	Crushed Cubic Yard Culvert Pipe	PC PI	Point of Curvature Point of Intersection	SL or S/L SV	Survey Line Septic Vent	
	ADJUST DITCH GRADING AS NECESSARY TO FIELD CONDITIONS AND AS DIRECTED BY THE ENGINEER IN THE	OTIL			Curb and Gutter Degree of Curve	PRC PT	Point of Reverse Curvature Point of Tangency	T TEL	Tangent Telephone	
	FIELD. CURVE DATA IS BASED ON THE ARC DEFINITION. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE (OR ARE) 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. NOT ALL UTILITIES ARE MEMBERS OF DIGGERS HOTLINE.	ELECTRICITY ALLIANT ENERGY ATTN: NICHOLAS DACHNIWSKYJ 935 WBR TOWNLINE ROAD BELOIT, WI 53511 PH: (608) 364-6566 CELL: (608) 444-9362 EMAIL: nicholasdachniwskyj@alliantenergy.com	GAS ALLIANT ENERGY ATTN:NICHOLAS DACHNIWSKYJ 935 WBR TOWNLINE ROAD BELOIT, WI 53511 PH: (608) 364-6566 CELL: (608) 444-9362 EMAIL: nicholasdachniwskyj@alliantenergy.com	DHV DIA E X ELEC EL or ELEV ESALS EBS	Design Hour Volume Diameter East East Grid Coordinate Electric (al) Elevation Equivalent Single Axle Loads Excavation Below	POC POT PVC PCC LB PSI P.E. R RR	Point Of Angency Point On Curve Point on Tangent Polyvinyl Chloride Portland Cement Concrete Pound Pounds Per Square Inch Private Entrance Radius Railroad	TEMP TI TLE T or TN TRANS TL or T/L T TYP	Temporary Temporary Interest Temporary Limited Easement Ton Town Transition Transit Line Trucks (percent of) Typical	
	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.	CITY OF BELOIT (TRAFFIC SIGNALS) ATTN: SCOT PRINDIVILLE, P.E. 2400 SPRINGBROOK ROAD BELOIT, WI 53511 PH: (608) 364-6690 CELL: (608) 207-5913 EMAIL: PrindivilleS@beloitwi.gov	COMMUNICATION LINE SPECTRUM (CHARTER) ATTN: TOMMY ROWE 1348 PLAINFIELD AVENUE JANESVILLE, WI 53545 CELL: (608) 206-5741	FF F.E. F FG FL or F/L FT FTG GN HT	Subgrade Face to Face Field Entrance Fill Finished Grade Flow Line Foot Line Footing Grid North Height	R RL or R/L RP RCCP REQD RES RW RT	Range Reference Line Reference Point Reinforced Concrete Culvert Pipe Required Residence or Residential Retaining Wall Right	UNCL UG USH VAR V VERT VC VOL WM	Unclassified Unclassified United States Highway Variable Velocity or Design Speed Vertical Vertical Curve Volume Water Main	
		WATER CITY OF BELOIT ATTN: MIKE TINDER 2400 SPRINGBROOK COURT BELOIT, WI 53511 PH: (608) 364-6690 CELL: (608) 751-9501	EMAIL: tommy.rowe@charter.com AT&T ATTN: MICHAEL VANBOVEN 411 7TH STREET RACINE, WI 53403 PH: (262) 676-3958	CWT HYD INL ID	Hundredweight Hydrant Inlet Inside Diameter	RHF R/W RD R	Right-Hand Forward Right-of-Way Road River	WV W WB YD	Water Valve West Westbound Yard	_
		EMAIL: tinderm@beloitwi.gov SANITARY SEWER CITY OF BELOIT ATTN: JOSHUA SHERE 2400 SPRINGBROOK COURT BELOIT, WI 53511 PH: (608) 364-6690 CELL: (608) 751-4629 EMAIL: sherej@beloitwi.gov	EMAIL: mv3658@att.com METRONET ATTN: MARK BENFORD 20 S DUGAN ROAD SUGAR GROVE, IL 60554 PH: (815) 272-4521 CELL: (815) 274-4521 EMAIL: mark.benford@metronet.com WINDSTREAM ATTN: LORI KETTER 969 WAUBE LN GREEN BAY, WI 54304 CELL: (920) 410-6902 EMAIL: lori.ketter@windstream.com		- T - C - C - S	ORDER OF GENERAL NOTES TYPICAL SECTIONS CONSTRUCTION DE' CURB RAMP DETAIL STORM SEWER TRAFFIC CONTROL				
			(800) 242-8511 ersHotline.com							
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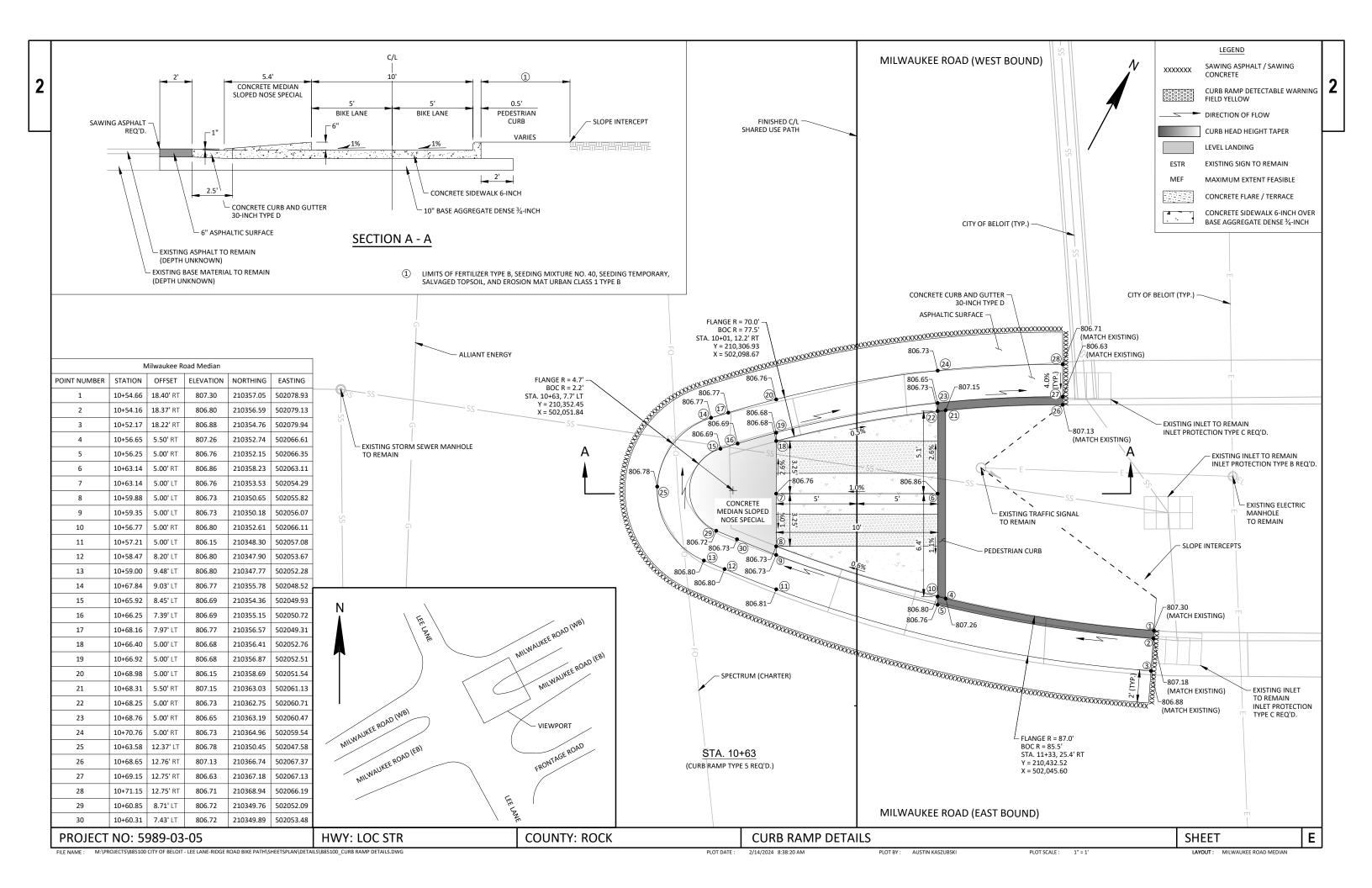


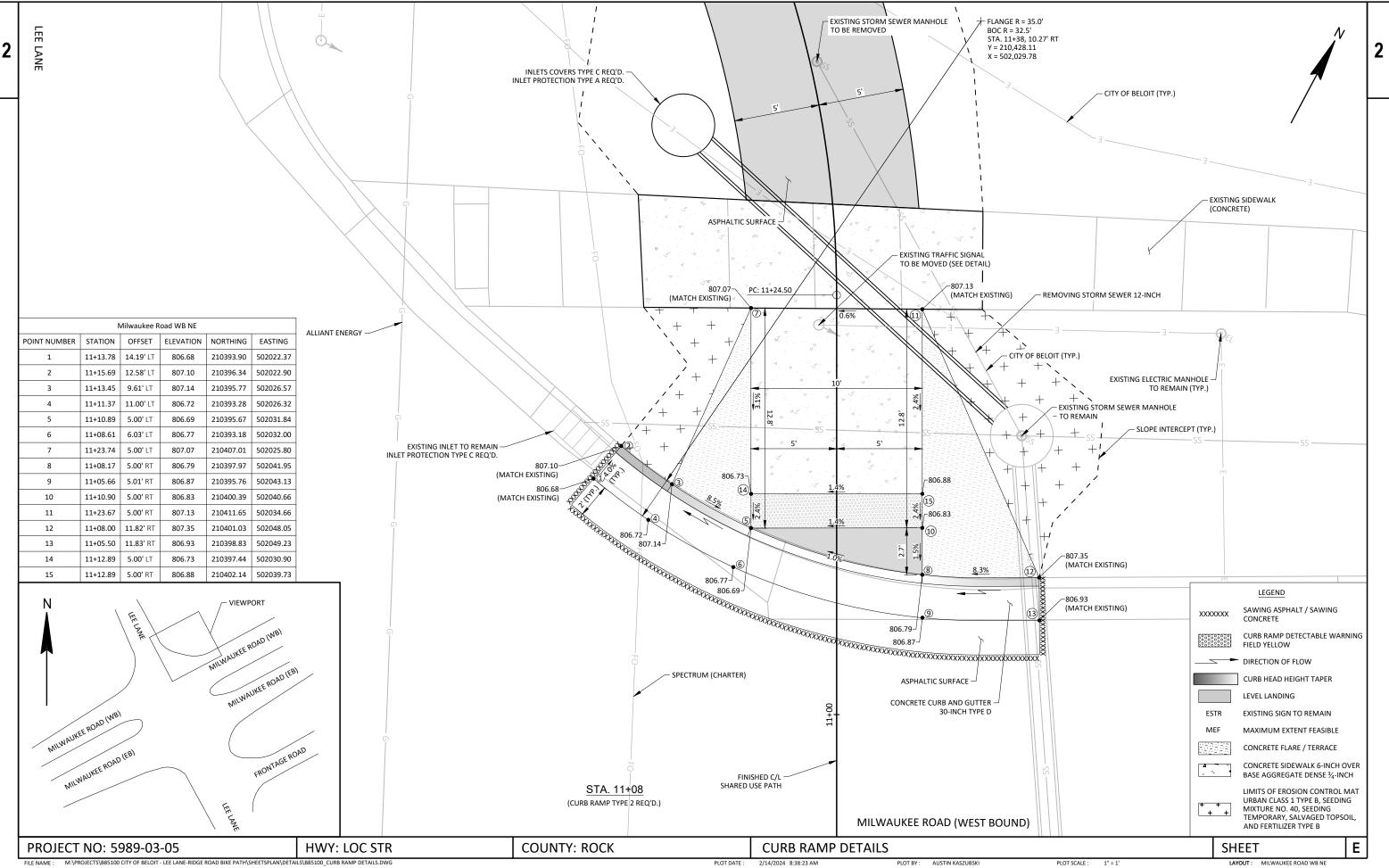




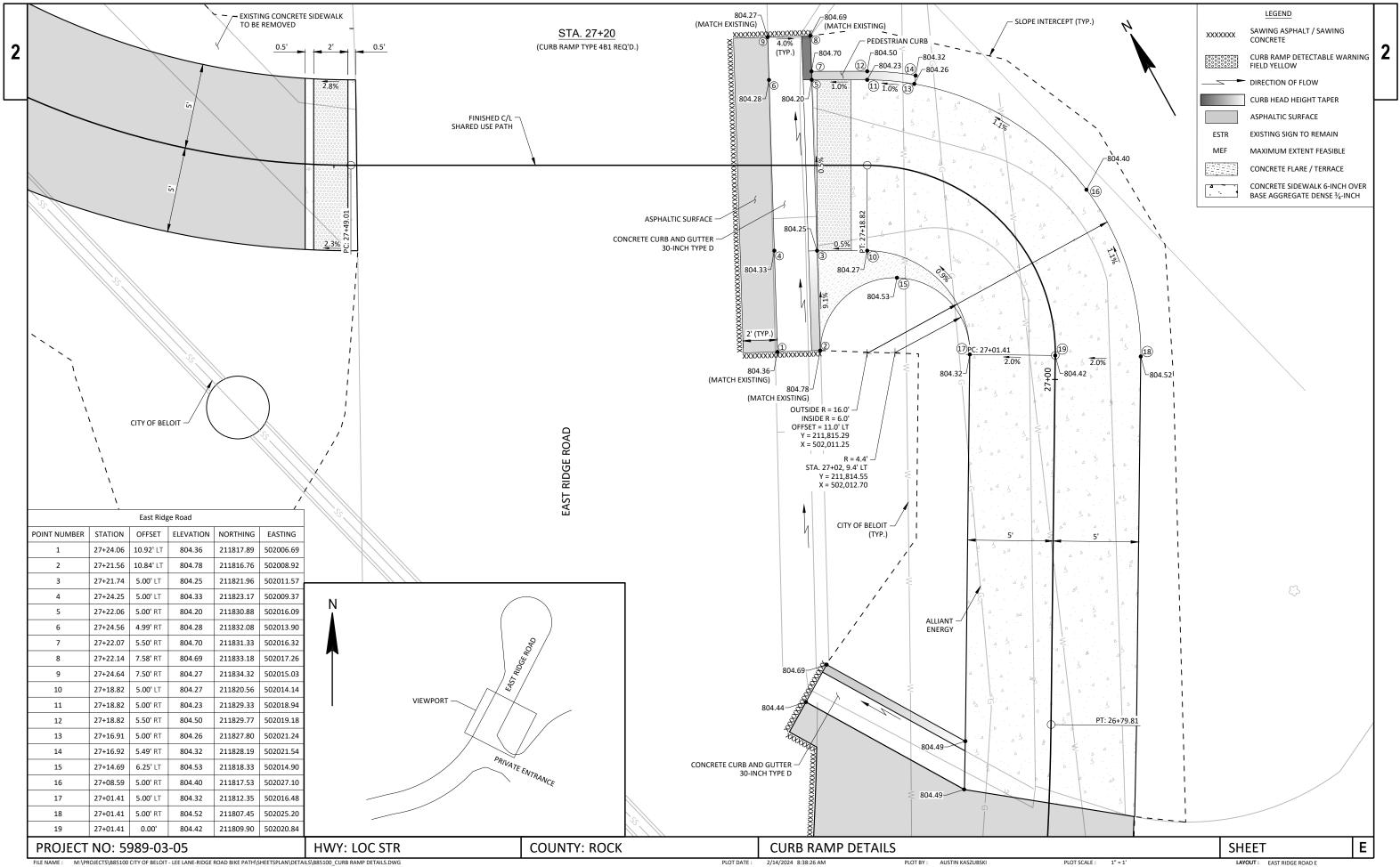


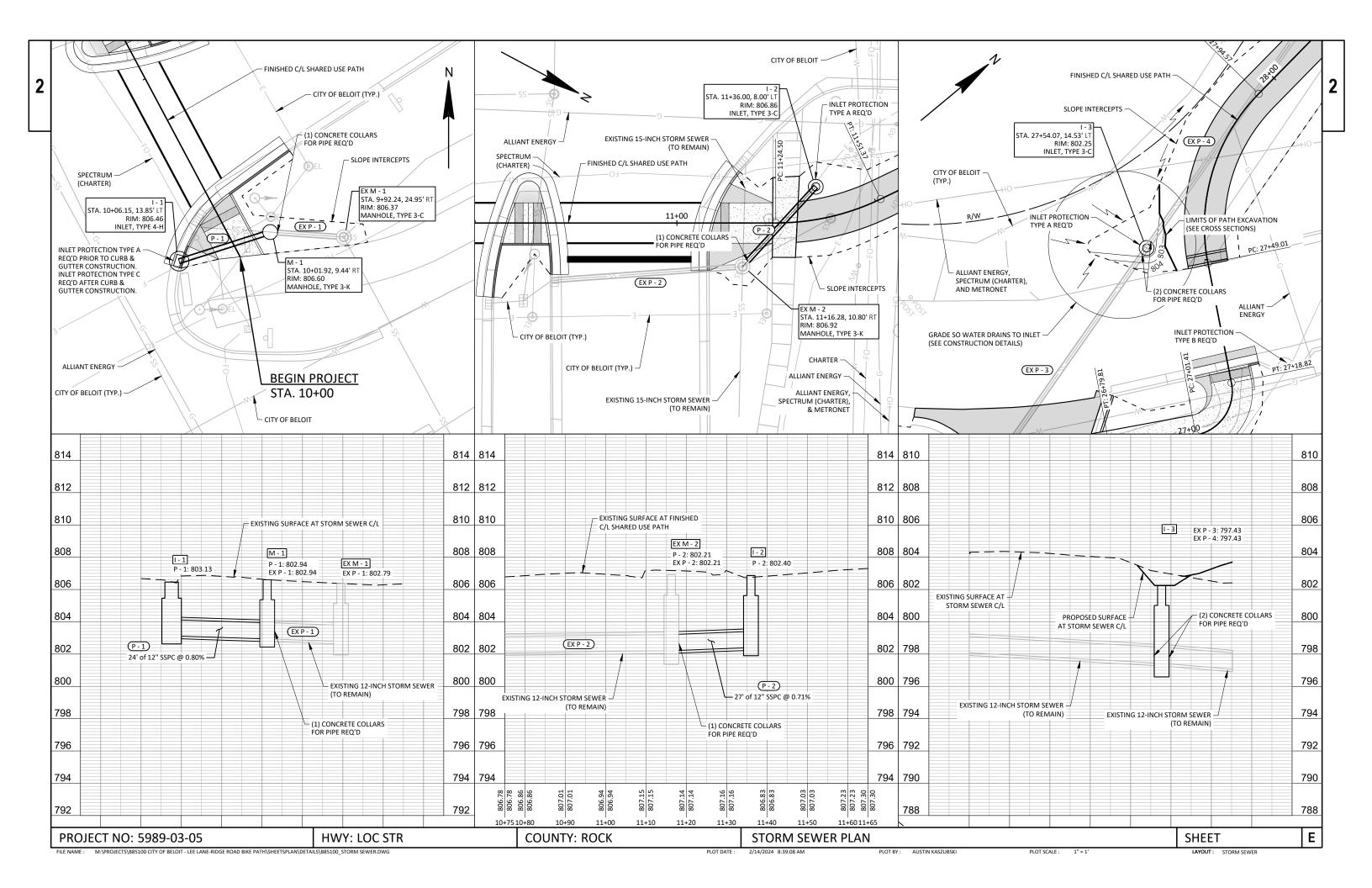
PLOT DATE : 2/14/2024 8:38:16 AM PLOT BY : AUSTIN KASZUBSKI

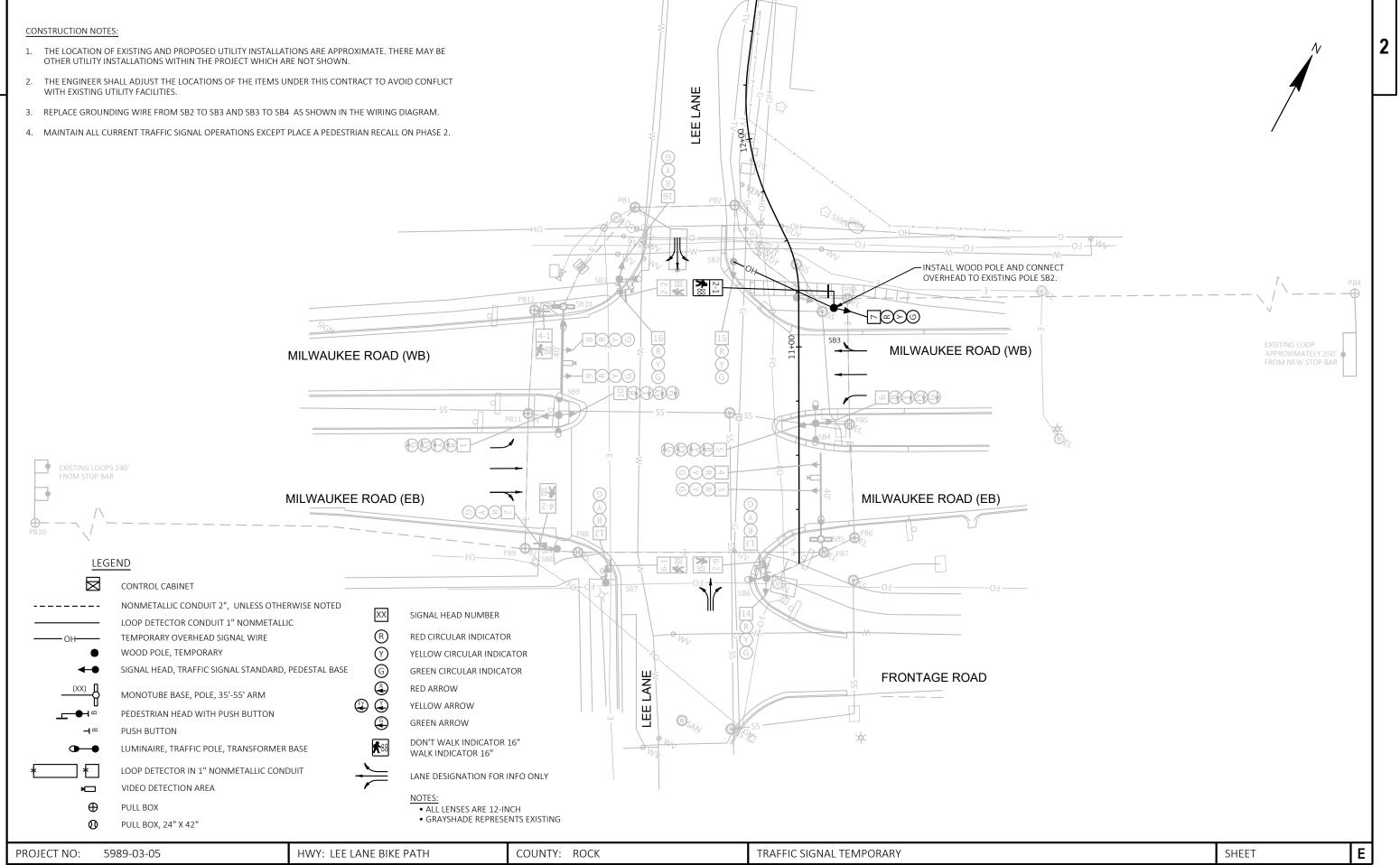




PLOT DATE : 2/14/2024 8:38:23 AM PLOT BY : AUSTIN KASZUBSKI





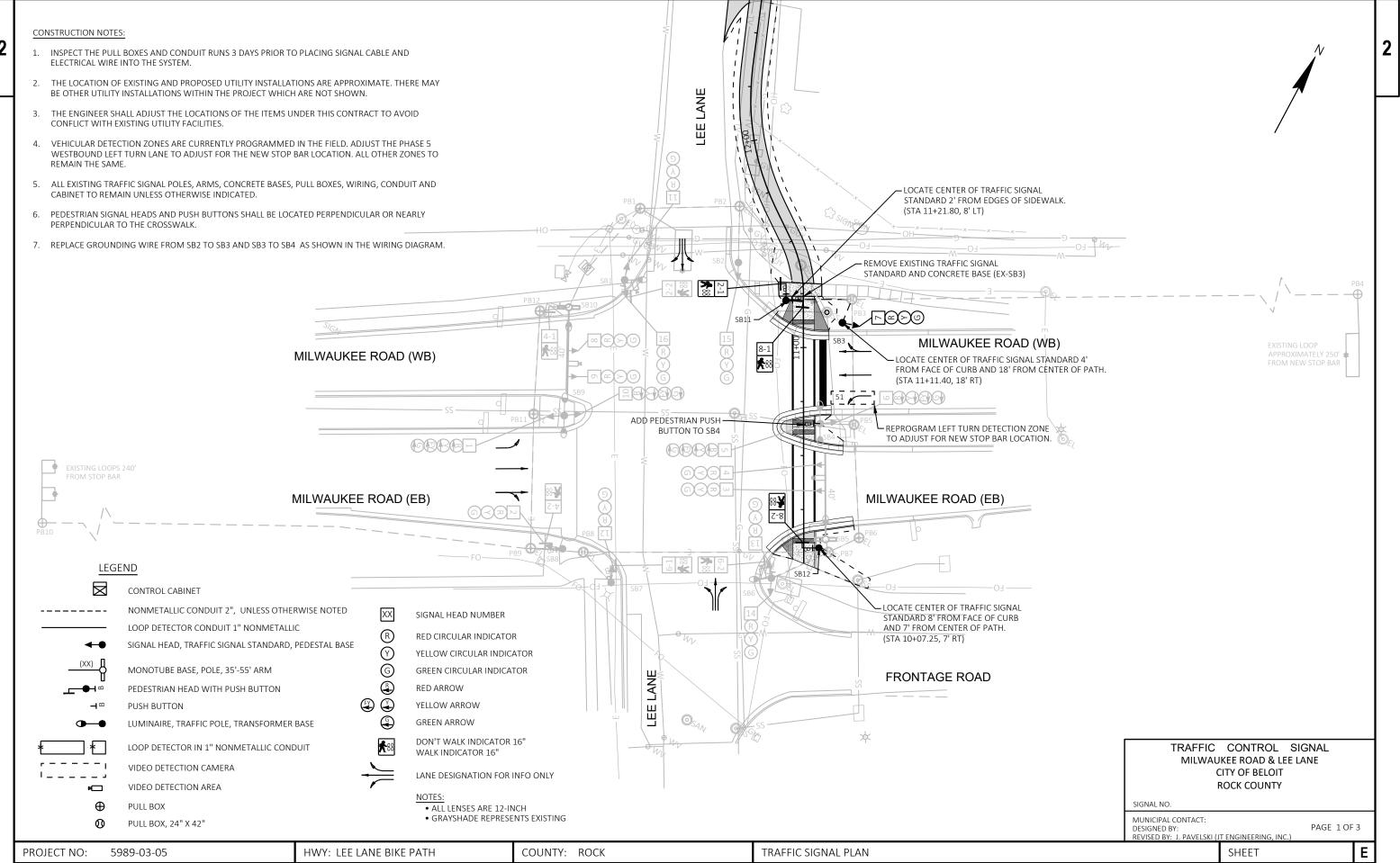


FILE NAME : X:\PROJECTS\ROCK\230130 STH 18 & LEE LANE SIGNAL MOD\DESIGN\C3D\SHEETSPLAN\024101-ST.DWG LAYOUT NAME - 024101-st

2

JIM PAVELSKI PLOT NAME :

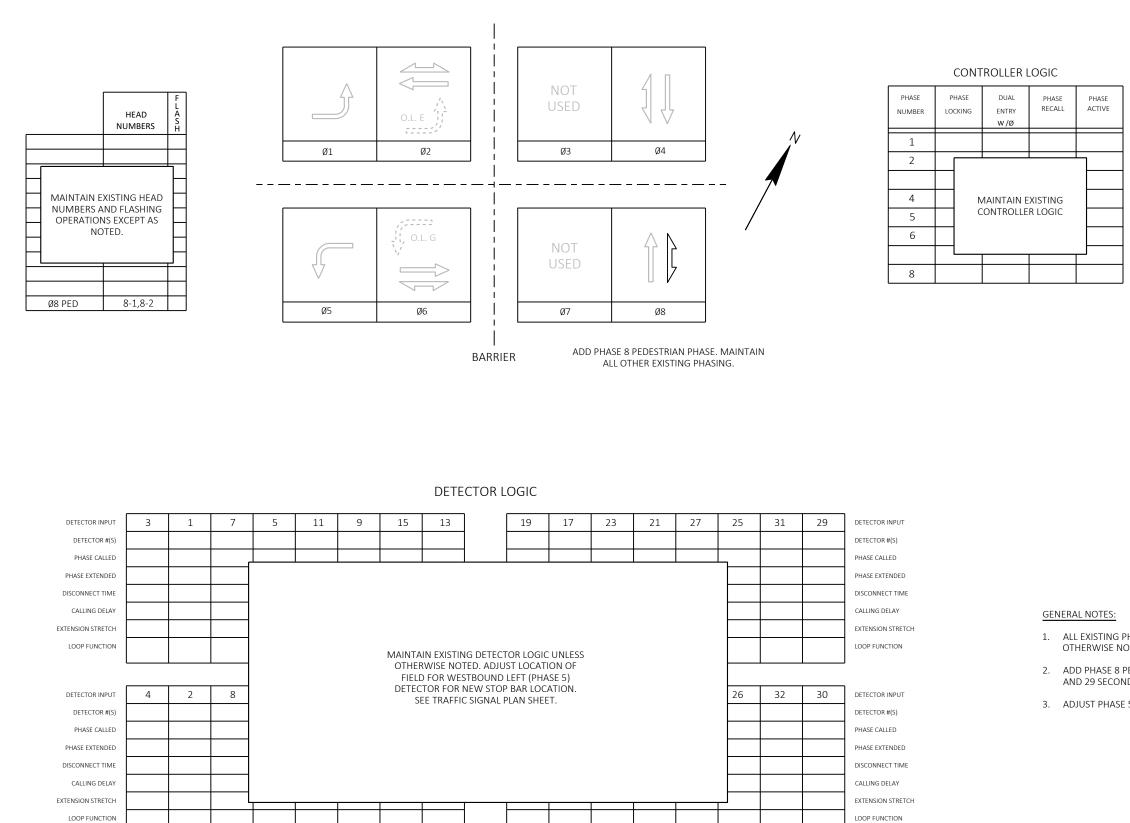
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PLOT BY : JIM PAVELSKI

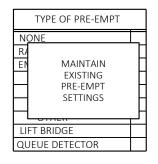
PLOT NAME :

2



PROJECT NO: 5989-03-05	HWY: LEE LANE BIKE PATH	COUNTY: ROCK		TRAFFIC SIGNAL	. PLAN	
FILE NAME : X:\PROJECTS\ROCK\230130 STH 18 & LEE LANE SIGNAL MOD\DESIGN\C3 LAYOUT NAME - 024301-ph	PLOT DATE	9/1/2023 9:33 AM	PLOT BY :	JIM PAVELSKI	PLOT NAME :	

TYPE OF REMOTE COMMUNICATION					
NONE	MAINTAIN	1			
FIBER	EXISTING				
CELL MC	COMMUNICATION				
PHONE	SETTINGS				



	TYPE OF LIGHTING		
BY OTHE IN TRAF IN SEPA	MAINTAIN EXISTING LIGHTING	NET	

TYPE OF INTERCONNECT						
NONE (						
TBC	MAINTAIN EXISTING					
CLOSED	COORDINATION					
CLOSED	SETTINGS					
RADIO						

1. ALL EXISTING PHASING, TIMINGS, AND SETTINGS SHALL BE MAINTAINED UNLESS OTHERWISE NOTED.

2. ADD PHASE 8 PEDESTRIAN PHASE. TIMING SHALL CONSIST OF 7 SECONDS OF "WALK" AND 29 SECONDS OF FLASHING "DON'T WALK."

3. ADJUST PHASE 5 VIDEO DETECTION ZONE FOR THE NEW STOP BAR LOCATION.

TRAFFIC CONTROL SIGNAL MILWAUKEE ROAD & LEE LANE CITY OF BELOIT ROCK COUNTY
SIGNAL NO.
MUNICIPAL CONTACT: DESIGNED BY: REVISED BY: J. PAVELSKI (JT ENGINEERING, INC.)
SHEET <b>E</b>

CABLE	ROUTING	CHART

			SIGNAL INDICATION WIRE COLOR								
TC1 TO	# OF COND. AWG 14	HEAD NO.	RED	YELLOW	<red></red>	<yellow></yellow>	<green></green>	<flashing YELLOW&gt;</flashing 	D/WALK	WALK	PED BUTTON
SB3	5	7	RED	ORG	GRN						
SB11	12	5				RED	ORG	GRN	BLK		
		6				RED/BLK	ORG/BLK	GRN/BLK	BLU		
		PH8 B									WHT/BLK
SB11	12	2-1							BLK	BLU	
		PH2 B									WHT/BLK
		8-1							RED	GRN	
		PH8 B									ORG
SB12	5	8-2							RED	GRN	
		PH8 B									ORG
	SB3 SB11 SB11	ICI 10         AWG 14           SB3         5           SB11         12           SB11         12	ICL 10         AWG 14         NO.           SB3         5         7           SB11         12         5           6         PH8 B           SB11         12         2-1           PH2 B         8-1           SB12         5         8-2	ICL 10         AWG 14         NO.         RED           SB3         5         7         RED           SB11         12         5         6           SB11         12         2         6           SB11         12         2-1         12           SB11         12         2-1         12           SB11         12         2-1         12           SB11         12         2-1         12           SB12         5         8-1         12	ICL 100         AWG 14         NO.         RED         HELLOW           SB3         5         7         RED         ORG           SB11         12         5             6               SB11         12         5              SB11         12         2-1              SB11         12         2-1              SB11         12         2-1               SB11         12         8-1                SB12         5         8-2	NO.         RED         RELLOW         RELLOW	TC1 TO         # OF COND. AWG 14         HEAD NO.         RED         YELLOW <red> <yellow>           SB3         5         7         RED         ORG         GRN         RED           SB11         12         5         Image: Constant of the second of t</yellow></red>	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	TC1 TO# OF COND. AWG 14HEAD NO.REDYELLOW <red>YELLOW&gt;<green>SB357REDORGGRNIISB11125IIREDORGGRNB11125IIREDORGGRNPH8IIIGRIIIIGR/BLKGRN/BLKSB11122-1II</green></red>	TC1 TO# OF COND. AWG 14HEAD NO.REDYELLOW <red><yellow><green>D/WALKSB357REDORGGRNIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII</green></yellow></red>	TC1 TO# OF COND. AWG 14HEAD NO.REDYELLOW <red><yellow><green><flashing </flashing YELLOW&gt;D/WALKWALKSB357REDORGGRNII</green></yellow></red>

### NOTES:

1. USE WHITE CONDUCTOR IN THE SIGNAL CABLE AS THE GROUNDED CONDUCTOR FOR ALL TRAFFIC SIGNAL INDICATIONS.

2. AT THE SIGNAL BASES, CONNECT ONE TERMINAL FROM THE PEDESTRIAN PUSH BUTTONS TO THE COLOR INDICATED IN THE CHART. CONNECT THE OTHER TERMINAL TO THE GROUNDED CONDUCTOR.

3. ALL OTHER WIRING TO REMAIN IN PLACE.

PROJECT NO:	5989-03-05	HWY: LEE LANE BIKE PATH	COUNTY: ROCK			CABLE ROUTING	G CHART	
FILE NAME : X:\PROJECTS\ROCK\230130 STH 18 & LEE LANE SIGNAL MOD\DESIGN\C3D\SHEETSPLAN\024201-SP.DWG				PLOT DATE :	8/31/2023 10:42 AM	PLOT BY :	JIM PAVELSKI	PLOT NAME :

FROM SB2 SB11 SB3

2

2

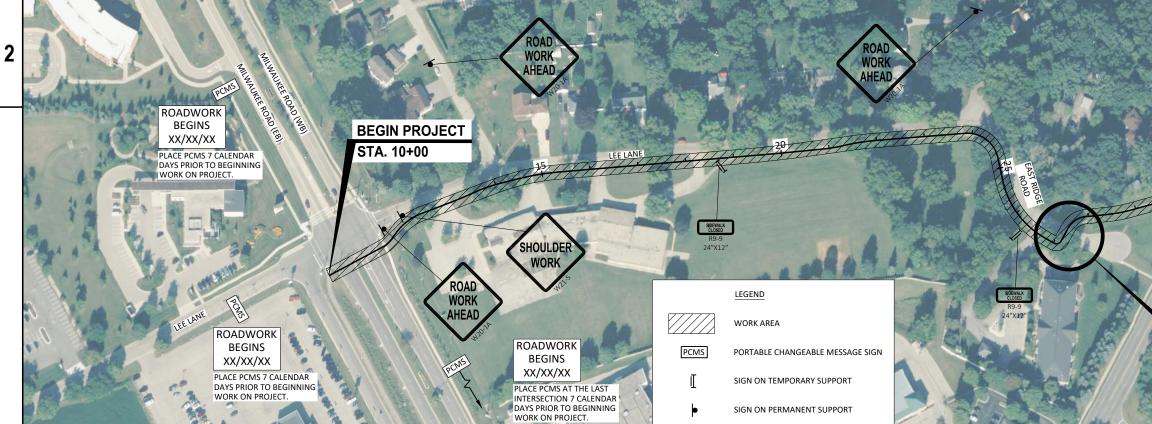
SIGNAL WIRE	BLK - BLACK	RED - RED	GRN - GREEN
COLOR CODING	WHT - WHITE	BLU - BLUE	ORG - ORANGE

EQUIPMENT GROUNDING CONDUCTOR 10 AWG GRN XLP					
FROM	ТО				
SB2	SB11				
SB11	SB3				
SB3	SB4				
SB5	SB12				

PLOT SCALE : 1 IN:20 FT

SHEET

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### **GENERAL NOTES:**

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

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS.

ALL SIGNS ARE 36"X36" UNLESS OTHERWISE NOTED

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

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

PROVIDE AND MAINTAIN ALL NECESSARY BARRICADES, SIGNS, LIGHTS, TEMPORARY MARKINGS, FLAGGERS, AND SUCH OTHER SAFETY DEVICES AS CALLED FOR ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

ALL SIGN LAYOUT SHALL BE IN ACCORDANCE WITH THE FEDERAL HIGHWAY ADMINISTRATION MANUAL OF STANDARD HIGHWAY SIGNS.

ADDITIONAL DRUMS OR TYPE III BARRICADES MAY BE REQUIRED ADJACENT TO DROP-OFFS, OPEN TRENCHES, OR PROTRUSIONS. COST TO BE INCLUDED WITH OPERATION WHICH CREATES THE HAZARD

DRUMS PLACED ADJACENT TO WORK AREAS SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

BARRICADES IN A CLOSED LANE 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

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

TRAFFIC CONTROL DETAILS SHOWN AT CURB RAMP WORK ZONES INDICATE WHERE SDD "TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION" IS NOT ADEQUATE. FOR ALL OTHER CURB RAMP WORK ZONES FOLLOW THE SDD "TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION" AND UTILIZE TEMPORARY CROSSWALKS AS SHOWN IN THIS DETAIL.

LIMIT SIDEWALK CLOSURES TO ONE INTERSECTION QUADRANT OR ONE SIDE OF THE STREET AT A TIME TO MINIMIZE PEDESTRIAN DISRUPTION UNLESS OTHERWISE NOTED.

PEDESTRIAN PATH AREA TO BE EXISTING CONCRETE SIDEWALK OR APPROVED TEMPORARY PEDESTRIAN SURFACE.

LOCATION OF TEMPORARY CROSSWALK TO BE DETERMINED BY THE ENGINEER. DO NOT LOCATE IN EXISTING DRIVEWAY.

LOCATION OF TRAFFIC CONTROL DEVICES TO BE DETERMINED BY THE ENGINEER.

TEMPORARY CROSSWALKS SHALL BE MOVED AS NEEDED TO PROVIDE CONTINUOUS PEDESTRIAN ACCESS THROUGHOUT THE RECONSTRUCTION PROJECT.

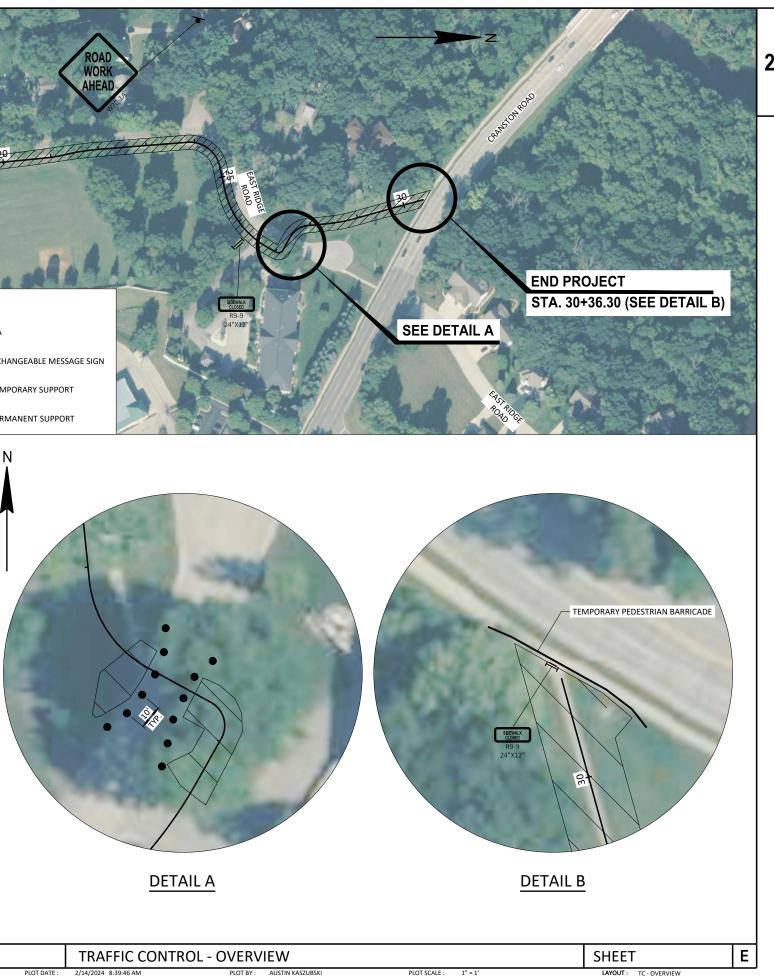
WHEN CLOSING OR RELOCATING CROSSWALKS OR SIDEWALKS, PROVIDE DETECTABLE TEMPORARY FACILITIES AND INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH EXISTING PEDESTRIAN FACILITIES

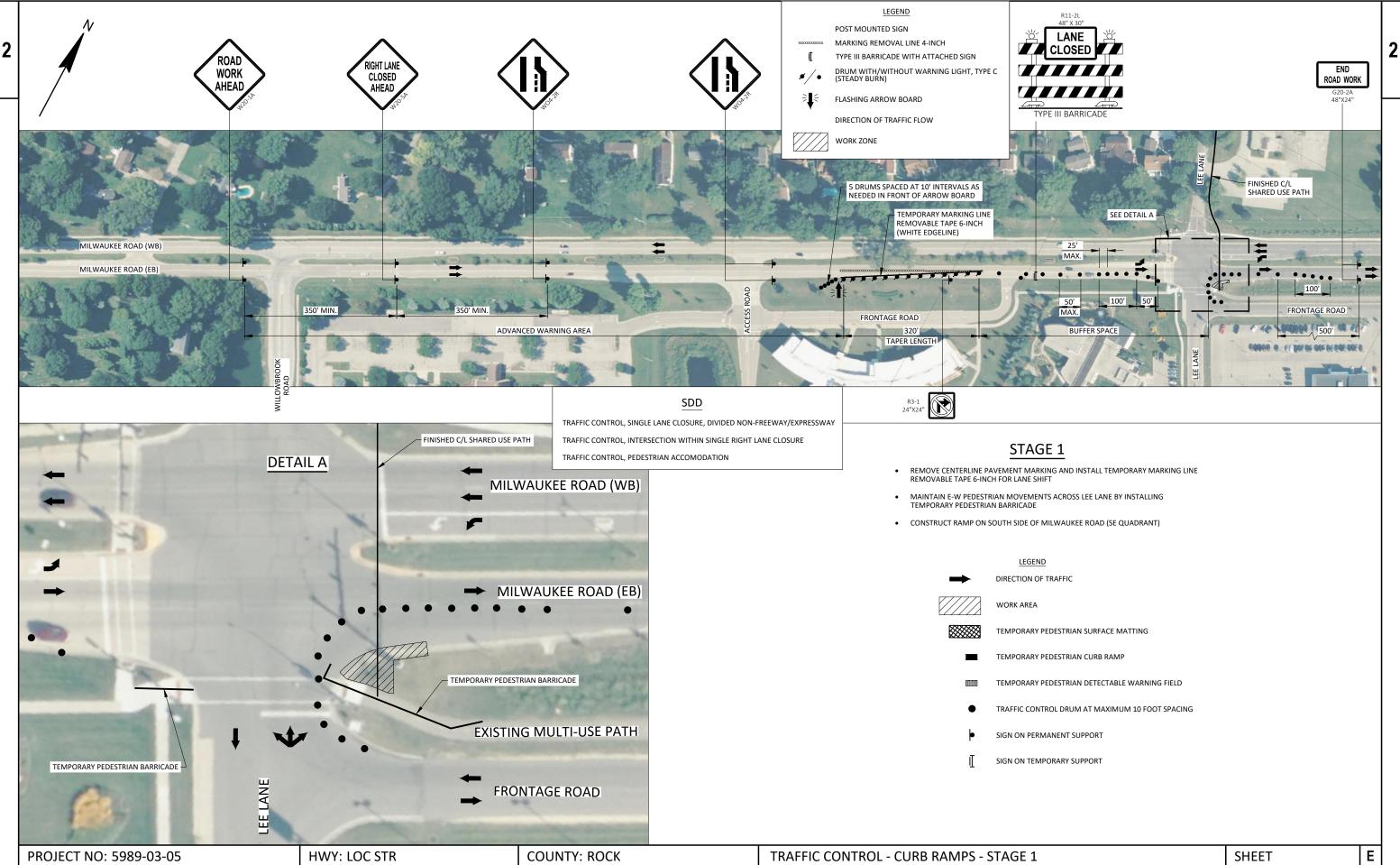
TEMPORARY TRAFFIC CONTROL DEVICES FOR PEDESTRIANS ARE SHOWN. OTHER DEVICES MAY BE NECESSARY TO CONTROL VEHICULAR TRAFFIC. STAGE WORK AS NECESSARY TO PROVIDE A TEMPORARY PEDESTRIAN ACCESS ROUTE AT ALL TIMES. FOR ROADWAYS WITH NO AVAILABLE DETOURS, MAINTAIN ONE OPEN SIDEWALK AT ALL TIMES.

FOR NIGHTTIME CLOSURE, USE TYPE "A" FLASHING WARNING LIGHTS ON BARRICADES, SUPPORTING SIGNS, AND CLOSING SIDEWALK. USE TYPE "C" STEADY BURN LIGHTS ON CHANNELIZING DEVICES SEPARATING THE WORK AREA FROM VEHICULAR TRAFFIC

POST MOUNTED SIGNS LOCATED ADJACENT TO A SIDEWALK SHALL HAVE A 7 FOOT MINIMUM CLEARANCE FROM THE BOTTOM OF THE SIGN TO THE SIDEWALK SURFACE.

PROJECT NO: 5989-03-05	HWY: LOC STR	COUNTY: ROCK	TRAFFIC CONTROL - OVERVIEW



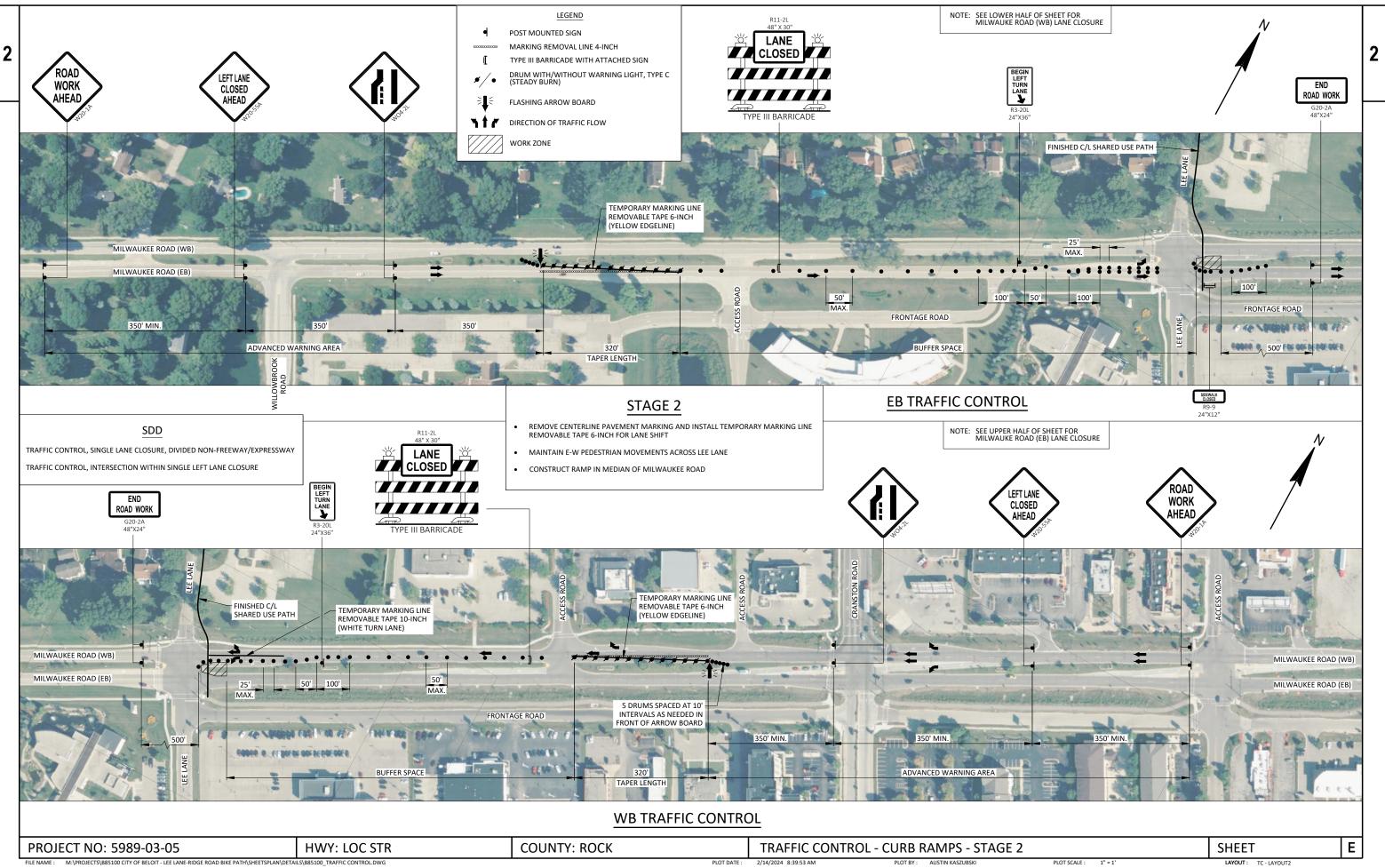


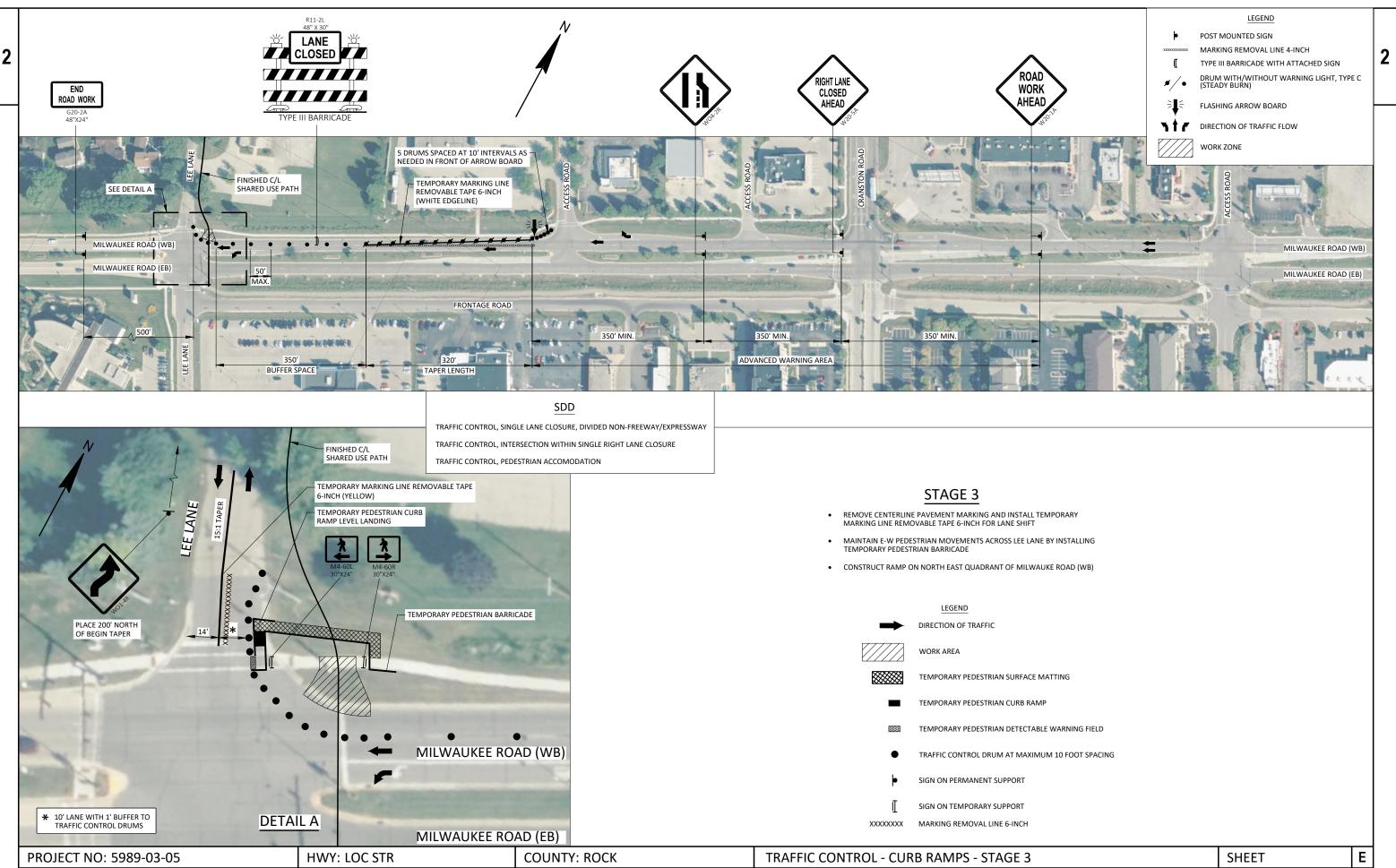
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2/14/2024 8:39:49 AM

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LAYOUT : TC - LAYOUT1





FILE NAME : M:\PROJECTS\B85100 CITY OF BELOIT - LEE LANE-RIDGE ROAD BIKE PATH\SHEETSPLAN\DETAILS\B85100 TRAFFIC CONTROL.DWG

PLOT DATE : 2/14/2024 8:39:57 AM PLOT BY : AUSTIN KASZUBSKI

					uannies	
					5989-03-05	
Line	Item	Item Description	Unit	Total	Qty	
0002	201.0220	Grubbing	ID	180.000	180.000	
0004	204.0150	Removing Curb & Gutter	LF	168.000	168.000	
0006	204.0155	Removing Concrete Sidewalk	SY	205.000	205.000	
0008	204.0170	Removing Fence	LF	60.000	60.000	
0010	204.0195	Removing Concrete Bases	EACH	1.000	1.000	
0012	204.0210	Removing Manholes	EACH	1.000	1.000	
0014	204.0220	Removing Inlets	EACH	1.000	1.000	
0016	204.0245	Removing Storm Sewer (size) 01. 12-Inch	LF	62.000	62.000	
0018	205.0100	Excavation Common	CY	640.000	640.000	
0020	213.0100	Finishing Roadway (project) 01. 5989-03-05	EACH	1.000	1.000	
0022	305.0110	Base Aggregate Dense 3/4-Inch	TON	1,425.000	1,425.000	
0024	465.0105	Asphaltic Surface	TON	400.000	400.000	
0026	520.8000	Concrete Collars for Pipe	EACH	4.000	4.000	
0028	521.1015	Apron Endwalls for Culvert Pipe Steel 15-Inch	EACH	1.000	1.000	
0030	521.3115	Culvert Pipe Corrugated Steel 15-Inch	LF	8.000	8.000	
0032	601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	164.000	164.000	
0034	601.0600	Concrete Curb Pedestrian	LF	36.000	36.000	
0036	602.0415	Concrete Sidewalk 6-Inch	SF	1,180.000	1,180.000	
0038	602.0505	Curb Ramp Detectable Warning Field Yellow	SF	120.000	120.000	
0040	608.0312	Storm Sewer Pipe Reinforced Concrete Class III 12-Inch	LF	51.000	51.000	
0040	611.0540	Manhole Covers Type K	EACH	1.000	1.000	
0042	611.0612	Inlet Covers Type C	EACH	2.000	2.000	
0044	611.0624	Inlet Covers Type H	EACH	1.000	1.000	
0040	611.2003	Manholes 3-FT Diameter	EACH	1.000	1.000	
0040	611.3003	Inlets 3-FT Diameter	EACH	2.000	2.000	
0052	611.3004	Inlets 4-FT Diameter	EACH	1.000	1.000	
0052	619.1000	Mobilization	EACH	1.000	1.000	
0056	624.0100	Water	MGAL	22.000	22.000	
0058	625.0500	Salvaged Topsoil	SY	1,875.000	1,875.000	
0058	627.0200	Mulching	SY	1,800.000	1,800.000	
0062	628.1504	Silt Fence	LF	300.000	300.000	
0062	628.1504	Silt Fence Maintenance	LF	600.000	600.000	
0066	628.1905	Mobilizations Erosion Control	EACH	3.000	3.000	
0068	628.1903	Mobilizations Emergency Erosion Control	EACH	2.000	2.000	
0000	628.2008	Erosion Mat Urban Class I Type B	SY	70.000	70.000	
0070	628.7005	Inlet Protection Type A	EACH	3.000	3.000	
0072	628.7003	Inlet Protection Type B	EACH	2.000	2.000	
0074	628.7010	Inlet Protection Type C	EACH	4.000	4.000	
0078	628.7555	Culvert Pipe Checks	EACH	5.000	5.000	
0080	629.0210	Fertilizer Type B	CWT	1.000	1.000	
0080	630.0140	Seeding Mixture No. 40	LB	34.000	34.000	
0082	630.0140	-	LB	50.000	50.000	
0086	630.0200	Seeding Temporary Seed Water	MGAL	40.000	40.000	
0088	634.0810	Posts Tubular Steel 2x2-Inch X 10-FT	EACH	1.000	1.000	
0088	637.2210	Signs Type II Reflective H	SF	1.860	1.860	
0090	638.2102	Moving Signs Type II	EACH	3.000	3.000	
0092	638.2102	Moving Signs Type II Moving Small Sign Supports	EACH	1.000	1.000	
			EACH			
0096	642.5001	Field Office Type B		1.000	1.000	
0098	643.0300	Traffic Control Drums	DAY	2,500.000	2,500.000	
0100	643.0420	Traffic Control Barricades Type III	DAY	42.000	42.000	

**Estimate Of Quantities** 

3

# 03/15/2024 16:01:21

Page 1

5989-03-05 Line Unit ltem **Item Description** Total Qty 0102 643.0705 Traffic Control Warning Lights Type A DAY 84.000 84.000 0104 643.0715 Traffic Control Warning Lights Type C DAY 630.000 630.000 643.0800 Traffic Control Arrow Boards DAY 42.000 42.000 0106 DAY 511.000 511.000 0108 643.0900 Traffic Control Signs Traffic Control Signs PCMS DAY 21.000 21.000 0110 643.1050 LF 0112 643.3180 Temporary Marking Line Removable Tape 6-Inch 1,360.000 1,360.000 LF 643.3280 Temporary Marking Line Removable Tape 10-Inch 180.000 180.000 0114 EACH 0116 643.5000 Traffic Control 1.000 1.000 0118 644.1440 Temporary Pedestrian Surface Matting SF 350.000 350.000 DAY 0120 644.1601 Temporary Pedestrian Curb Ramp 14.000 14.000 SF 0122 644.1605 Temporary Pedestrian Detectable Warning Field 10.000 10.000 LF 330.000 330.000 0124 644.1810 Temporary Pedestrian Barricade 0126 646.1020 Marking Line Epoxy 4-Inch LF 380.000 380.000 0128 646.6120 Marking Stop Line Epoxy 18-Inch LF 31.000 31.000 LF 0130 Marking Crosswalk Epoxy Transverse Line 6-Inch 145.000 145.000 646.7420 LF 0132 646.8120 Marking Curb Epoxy 22.000 22.000 0134 Marking Island Nose Epoxy EACH 1.000 646.8220 1.000 0136 646.9000 Marking Removal Line 4-Inch LF 1,340.000 1,340.000 Construction Staking Storm Sewer EACH 0138 650.4000 4.000 4.000 LF 1,840.000 0140 650.4500 Construction Staking Subgrade 1,840.000 **Construction Staking Base** LF 1,840.000 1,840.000 0142 650.5000 LF 0144 650.5500 Construction Staking Curb Gutter and Curb & Gutter 164.000 164.000 EACH 0146 650.8501 Construction Staking Electrical Installations (project) 01. 5989-03-05 1.000 1.000 EACH Construction Staking Curb Ramps 4.000 4.000 0148 650.9000 0150 Construction Staking Sidewalk (project) 01. 5989-03-05 EACH 1.000 1.000 650.9500 0152 650.9911 Construction Staking Supplemental Control (project) 01. 5989-03-05 EACH 1.000 1.000 LF 0154 Construction Staking Slope Stakes 1,840.000 1,840.000 650.9920 LF Conduit Rigid Nonmetallic Schedule 40 2-Inch 45.000 0156 652.0225 45.000 0158 654.0101 Concrete Bases Type 1 EACH 3.000 3.000 LF 0160 655.0230 Cable Traffic Signal 5-14 AWG 745.000 745.000 LF 0162 Cable Traffic Signal 12-14 AWG 575.000 575.000 655.0260 LF 430.000 430.000 0164 655.0515 Electrical Wire Traffic Signals 10 AWG 0166 Signal Mounting Hardware (location) 01. Milwaukee Road & Lee Lane EACH 1.000 1.000 658.5070 0168 661.0201 Temporary Traffic Signals for Intersections (location) 01. Milwaukee Road & Lee Lane EACH 1.000 1.000 LF 0170 690.0150 Sawing Asphalt 640.000 640.000 LF 0172 690.0250 Sawing Concrete 60.000 60.000 0174 ASP.1T0A On-the-Job Training Apprentice at \$5.00/HR HRS 1,000.000 1,000.000 0176 ASP.1T0G On-the-Job Training Graduate at \$5.00/HR HRS 1,500.000 1,500.000 SPV.0060 Special 01. Removing Traffic Signal - Milwaukee Road & Lee Lane EACH 1.000 0178 1.000 SPV.0060 Special 02. Pedestal Bases Black EACH 3.000 0180 3.000 SPV.0060 Special 03. Traffic Signal Standards Aluminum 15-FT Black EACH 1.000 0182 1.000 0184 SPV.0060 Special 04. Traffic Signal Standards Aluminum 10-FT Black EACH 2.000 2.000

EACH

EACH

EACH

SF

1.000

3.000

4.000

30.000

1.000

3.000

4.000

30.000

**Estimate Of Quantities** 

3

SPV.0060

SPV.0060

SPV.0060

SPV.0165

0186

0188

0190

0192

Special 05. Traffic Signal Face 3S 12-Inch Black

Special 06. Pedestrian Signal Face 16-Inch Black

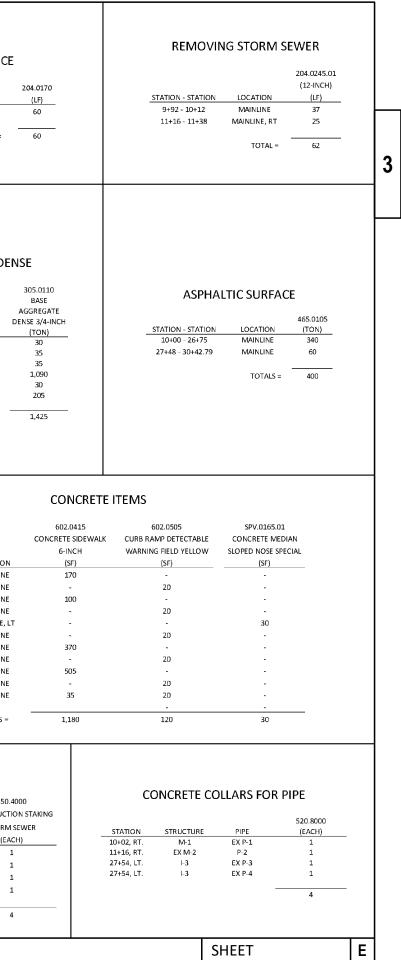
Special 01. Concrete Median Slope Nose Special

Special 07. Pedestrian Push Buttons Black

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Page 2

204.0150         204.0150         STATION - STATION       LOCATION       (LF)         10+04 - 10+17       MAINLINE       43         10+52 - 10+71       MAINLINE       63         11+05 - 11+06       MAINLINE       28         26+76 - 26+81       MAINLINE       15         27+24       MAINLINE       19         TOTAL =	REMOVING STORM SEWER S 204.0210 REMOVING MANHOLE STATION LOCATION (EACH) 10+12 MAINLINE, LT - 11+38 MAINLINE, RT 1 TOTAL = 1	204.0220 6 REMOVING	<b>STATION - STATION</b> 11+24 - 11+30 26+76 - 27+22 27+49 - 30+51	LOCATION ( MAINLINE MAINLINE . MAINLINE 1	ALK 1.0155 (SY) 15 30 160 205	<u>STATION - 51</u> 12+02 - 12	ATION L	NG FENCE LOCATION MAINLINE, RT TOTAL =
STATION       LOCATION       (ID)         STATION       LOCATION       (ID)         13+47       MAINLINE, RT       18         15+55       MAINLINE, RT       18         19+44       MAINLINE, LT       18         19+44       MAINLINE, LT       18         19+46       MAINLINE, LT       18         19+62       MAINLINE, LT       18         20+86       MAINLINE, LT       36         23+41       MAINLINE, LT       36         TOTAL =       180	STATION - STATION       LOCATION         10+00 - 30+36.30       MAINLINE         27+54.07, LT.       SPECIAL GRADING AT I-3         XOTES:       I.) COMMON EXCAVATION IS THE SUM OF THE CUT AND EBS         2.) SALVAGED/UNUSABLE PAVEMENT MATERIAL IS INCLUDED       3.) AVAILABLE MATERIAL = CUT - SALVAGED/UNUSABLE PAVE         4.) EXPANDED FILL FACTOR 1.25: EXPANDED FILL = (UNEXPAN       5.) THE MASS ORDINATE+ OR - QTY CALCULATED FOR THE DI         MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE CA	TALS = 640 640 EXCAVATION COLUMNS. ITEM NUMBE IN CUT MENT MATERIAL DED FILL - )*1.25 VISION. PLUS QUANTITY INDICATES AN	ILE         UNEXPANDED         EXPANE           AL         FILL         FACT           >         (CY)         1.25 (           41         52           0         0           41         52           8         205.0100	. MASS ) ORDINATE 3R +/- W (4) (CY) (5) 1 585 3 588	/ASTE (CY) 585 3 588	BAS <u>STATION - STAT</u> 10+00 - 10+7 10+53 - 10+7 11+04 - 11+2 11+30 - 26+7 26+75 - 27+2 27+49 - 30+42	10N LC 8 N 2 N 0 N 5 N 6 N	D OCATION VAINLINE VAINLINE VAINLINE VAINLINE VAINLINE VAINLINE VAINLINE TOTALS =
CULVERT PIPE S21.1015 APRON ENDWALLS FOR CULVERT C PIPE STEEL 15-INCH STATION LOCATION (EACH) 24+03 MAINLINE 1 TOTALS = 1 MINIMUM THICKNESS (INCHES) PIPE SIZE STEEL 0.064 -	SIEL     945       15-INCH     10+       (LF)     10+       8     10+       11+     8       26+     27+		ETE CURB & GUTTER 601.0600 601.0411 CONCRETE CURE 0-INCH TYPE D PEDESTRIAN (LF) (LF) - 18 43 - 63 - 12 28 - 11 - 164 36	650.5500 CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER (LF) - 43 63 - 28 11 - 19 164		10+5 10+5 11+6 26+7	DN-STATION 10 - 10+14 10+10 18 - 10+68 10+60 10+59 10+64 19 - 11+30 11+11 15 - 27+22 27+21 27+50	LOCATION MAINLINE MAINLINE MAINLINE MAINLINE, LT MAINLINE MAINLINE MAINLINE MAINLINE MAINLINE MAINLINE MAINLINE TOTALS =
P - 1         I - 1         M - 1         803.13         802.94         0.6           P - 2         I - 2         EX M - 2         802.40         802.21         0.7	608.0312 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH         STRUCTURE           12-INCH         M-1           12-INCH         M-1           10%         24           17%         27           0TAL =         51	STATION         LOCATION           10+01.92         9.44' RT.         8           10+06.15         13.85' LT.         8           11+36.00         8.00' LT.         8           27+54.07         14.53' LT.         8	STO 611.0540 MANHOLE COVERS LEVATION TYPE K (FT.) (EACH) 806.60 1 806.46 - 806.86 - 802.25 - DTALS = 1	Control         Control <t< td=""><td>611.2003</td><td>611.3003 INLETS 3-FT DIAMETER 4-4 (EACH) - - 1 1 2</td><td>611.3004 INLETS T DIAMETER (EACH) - 1 - - -</td><td>650.40 CONSTRUCTIO STORM SI (EACH 1 1 1 1 1</td></t<>	611.2003	611.3003 INLETS 3-FT DIAMETER 4-4 (EACH) - - 1 1 2	611.3004 INLETS T DIAMETER (EACH) - 1 - - -	650.40 CONSTRUCTIO STORM SI (EACH 1 1 1 1 1



LAYOUT : LAYOUT1

		FINIS	HING ITEMS									
WATER624.0100LOCATION(MGAL)PROJECT22TOTAL =22	STATION - STATION LOCATION 10+00 - 11+24 MAINLINE 10+00 - 27+22 MAINLINE 27+49 - 30+42.79 MAINLINE UNDISTRIBUTED PROJECT TOTALS=	TOPSOIL MULCHING		630.0140 630.02 JING MIXTURE SEEDI NO. 40 TEMPO (LB) (LB)  20 30 7 10 7 10 7 10 34 50	NG SEED ARY WATER (MGAL) - 24 8 8 8	<u>STATION - STATION</u> 26+63 - 29+49	SILT FENCE         628.1504         628.1504         628.1504         628.1504         SILT FENCE         MAINTE           LOCATION         (LF)         (LF)         (LF)           MAINLINE, RT.         235         47           UNDISTIBUTED         65         13           TOTALS =         300         60	:NCE NANCE ) 0 0	<u>STATION - STATIO</u> 10+00 - 30+36.3	DN LOCATIO	SAWING SAW ASPHALT CONC DN (LF) (L NE 640 6	0250 VING CRETE .F) .50
INLET PROTEC           628.7005           TYPE A           STATION         LOCATION         (EACH)           10+06         MAINLINE, LT         1           10+54         MAINLINE, RT         -           10+62         MAINLINE, RT         -           10+63         MAINLINE, RT         -           11+17         MAINLINE, LT         -           11+36         MAINLINE, LT         1           27+22         MAINLINE, LT         1           27+54         MAINLINE, LT         1           TOTALS =         3         -		e Moi E C	EROSION CONTROL 628.1910 28.1905 MOBILIZATIONS ILIZATIONS EMERGENCY ROSION EROSION DNTROL CONTROL (EACH) (EACH) 3 2	STAT 23+ 24+ 30+	96 MAINLINE, LT. 03 MAINLINE, RT.	HECKS 628.7555 (EACH) 1 2 2 5	643.030 DRUM <u>STAGE (DAY</u> ) 1 840 2 840 3 630 PROJECT 190 TOTALS = 2,500	643.0420 0 BARRICADES 5 TYPE III (DAY) 14 14 14 14 14	CONTR           643.0705         643.0715           WARNING         WARNING           LIGHTS         LIGHTS           TYPE A         TYPE C           (DAY)         (DAY)           28         210           28         210           28         210           28         210           28         210           28         210           28         210           28         210           28         630	643.0800 ARROW 6 BOARDS (DAY) 14 14 14 14	543.0900 643.1050 TT SIGNS PCMS CC (DAY) (DAY) (1 98 - 91 - 112 - 210 21	43.5000 RAFFIC DNTROL EACH) 1 1
10+03         MAINLINE           11+23         MAINLINE           11+23         MAINLINE	SIGN DISTIION CODE SIGN DESCRIPT RIGHT R1-1 STOP LEFT R1-1-F STOP LEFT S1-1 PEDESTRIAN CRC LEFT R1-1 STOP		638.2102 634.0810 MOVING POSTS TUBULAR SIGNS STEEL 2X2-INCH X 10-FT TYPE II (EACH) (EACH) - 1 - 1 - 1 1 3 1 3	638.4000 MOVING SMALL SIGN SUPPORTS (EACH) 1 - - - -		STATION - STATION 11+30 - 26+75 27+49 - 30+42.79 10+00 10+63 11+08 27+20 -	650.4500 6 SUBGRADE LOCATION (LF) MAINLINE 1545 MILWAUKEE RD EB SE MILWAUKEE RD BE SE MILWAUKEE RD MEDIAN MILWAUKEE RD WB NE EAST RIDGE RD - PROJECT -	650.9000           50.5000         CURB           BASE         RAMPS           (LF)         (EACH)           1545         -           295         -           -         1           -         1           -         1           -         1           -         1           -         1           -         1           -         1           -         1           -         4	650.9500 SIDEWALK	650.9911 SUPPLEMENTAL ROL (01. 5989-03-05 (EACH) - - - - 1 1 1	650.9920 5) SLOPE STAKES (LF) 1545 295 - - - - - - - - 1,840	
CEMPORARY 643.3 TEMPORARY LINE REMOV G-IN STAGE LOCATION (LF	MARKING TEMPORARY MARKING ABLE TAPE LINE REMOVABLE TAPE CH 10-INCH ) (LF) 	(LF) 320 320 320	- STATION LOCATION - STAGE 1 - MILWAUKEE RD EB - STAGE 2 - MILWAUKEE RD WB - STAGE 2 - MILWAUKEE RD WB - STAGE 3 - MILWAUKEE RD WB - STAGE 3 - LEE LANE - MILWAUKEE RD WB	м	ARKING LINE MARKIN OXY 4-INCH EPOXY (LF) 80 80 80 80 80 60	646.7420 MARKING 6120 CROSSWALK EPOXY STOP LINE TRANSVERSE LINE 18-INCH 6-INCH 1       -			644.1440 TEMPORARY PEDESTRIAN SURFACE MATTING (SF) - 350 -	ARY PEDESTR 644.1601 TEMPORARY PEDESTRIAN CURB RAMP (DAY) - 14 - 14	RIAN ACCESS 644.1605 TEMPORARY PEDESTRIAN DETECTABLE WARNING FIELD (SF) - 10 - 10	644.1810 TEMPORAR PEDESTRIAN BARRICADE (LF) 114 132 84 330
1         MILWAUKEE RD EB         322           2         MILWAUKEE RD EB         322           2         MILWAUKEE RD WB         322           3         MILWAUKEE RD WB         322           3         LEE LANE         80           TOTALS =         1,36	) - -	1,340	- MILWAUKEE RD EB - MILWAUKEE RD WB - MIILWAUKEE RD MEDIAN - MIILWAUKEE RD MEDIAN	CROSSWALK CURB MEDIAN NOSE TOTALS=		- 70   31 145	22 - - 1 22 - - 1					

## TRAFFIC SIGNAL CONSTRUCTION

STATION

- 11+50

### TRAFFIC SIGNAL REMOVALS

			204.0195 REMOVING CONCRETE	
CATEGORY	STATION	OFFSET	BASES EACH	COMMENTS
0010	11+23	1' LT	1	
	TOTAL	TOTAL	1	

<u>CONDUIT</u>

то

РВ3

РВЗ

РВ7

TOTAL

CD	$\Delta U$	ND	TN	CC
	UU.		1 13	

HWY

LEE LANE

TOTAL

652.0225 CONDUIT RIGIE NONMETALLIC						655.0515 ELECTRICAL WIRE TRAFFIC IGNALS 10 AW	
SCHEDULE 40 2-I	NCH		CATEGORY	FROM	то	LF	COMMENTS
LF	COMMENT	5	0010	SB2	SB11	175	
10				SB11	SB3	75	
30				SB3	SB4	135	
5				SB5	SB12	45	
45					TOTAL	430	

CATEGORY STATION

10+00

0010

### TRAFFIC SIGNAL STRUCTURES

	CATEGORY 0010	LOCATION SB3 SB11 SB12	STATION 11+11.40 11+22.20 10+07.25	) 18'RT ) 6.5'LT	654.0101 CONCRETE BASES TYPE 1 EACH 1 1 1	PEDESTAL BASES BLACK EACH 1 1 1	TRAFFIC SIGNAL STANDARDS ALUMINUM 15-FT	SPV.0060.04 TRAFFIC SIGNAL STANDARDS ALUMINUM 10-FT BLACK EACH  1 1 1	COMMENTS
				TOTAL	3	3	1	2	
PROJECT NO: 5989-03-05	HWY: LEE LANE BIKE	PATH		COUNTY: RO	)CK		MISCELLANE	OUS QUANTITIES	

X:\PROJECTS\ROCK\230130 STH 18 & LEE LANE SIGNAL MOD\DESIGN\C3D\SHEETSPLAN\030101-EQ.DWG LAYOUT NAME - 01 FILE NAME :

CATEGORY FROM

SB3 SB11

SB12

0010

PLOT DATE : 9/1/2023 11:55 AM

PLOT NAME :

PLOT BY : JIM PAVELSKI

<u>N STAKING SUMMARY</u>	
650.8501	
CONSTRUCTION STAKING	
ELECTRICAL	
INSTALLATIONS	
(PROJECT) 5989-03-05	
EACH	COMMENTS
1	

1

# NG CONDUCTOR

SHEET

Ε

# TRAFFIC SIGNAL CABLE

			655.0230	655.0260	
			CABLE TRAFFIC	CABLE TRAFFIC	
			SIGNAL 5-14	SIGNAL 12-14	
			AWG	AWG	
CATEGORY	FROM	то	LF	LF	COMMENTS
0010	CABINET	SB3	240		
	SB	HEAD 7	15		
	CABINET	SB11		260	
	SB11	HEAD 2-1	10		
	SB11	BUTTON PH 2	5		
	SB11	HEAD 8-1	10		
	SB11	BUTTON PH 8	5		
	CABINET	SB4		315	
	SB4	BUTTON PH 8	5		
	SB4	HEAD 5	15		
	SB4	HEAD 6	15		
	CABINET	SB12	410		
	SB12	head 8-2	10		
	SB12	BUTTON PH 8	5		
		TOTAL	745	575	

	T	RAFFIC SIGNA	L HEADS AND	BUTTONS	
		SPV.0060.05	SPV.0060.06	SPV.0060.07	
		TRAFFIC	PEDESTRIAN	PEDESTRIAN	
		SIGNAL FACE	SIGNAL FACE	PUSH	
		3S 12-INCH	16-INCH	BUTTONS	
		BLACK	BLACK	BLACK	
CATEGORY	LOCATION	EACH	EACH	EACH	COMMENTS
0010	SB3	1			
	SB11		2	2	
	SB4			1	
	SB12		1	1	
	TOTAL	1	3	4	

# TRAFFIC SIGNAL MISCELLANEOUS

		658.5070 SIGNAL MOUNTING HARDWARE (LOCATION) MILWAUKEE ROAD & LEE LANE	661.0201 TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS (LOCATION) MILWAUKEE ROAD & LEE LANE	SPV.0060.08 REMOVING TRAFFIC SIGNAL - MILWAUKEE ROAD & LEE LANE	
CATEGORY	INTERSECTION	EACH		EACH	CO
0010	MILWAUKEE ROAD & LEE LANE	1	1	1	
	TOTAL	1	1	1	

PROJECT NO:	5989-03-05	HWY: LEE LANE BIKE PATH	COUNTY: ROCK			MISCELLANEOU	IS QUANTITIES	5	
FILE NAME : X:\PROJEC	TS\ROCK\230130 STH 18 & LEE LANE SIGNAL MOD\DESIGN\C3D	\SHEETSPLAN\030101-EQ.DWG		PLOT DATE :	9/1/2023 11:53 AM	PLOT BY :	JIM PAVELSKI	PLOT NAME :	

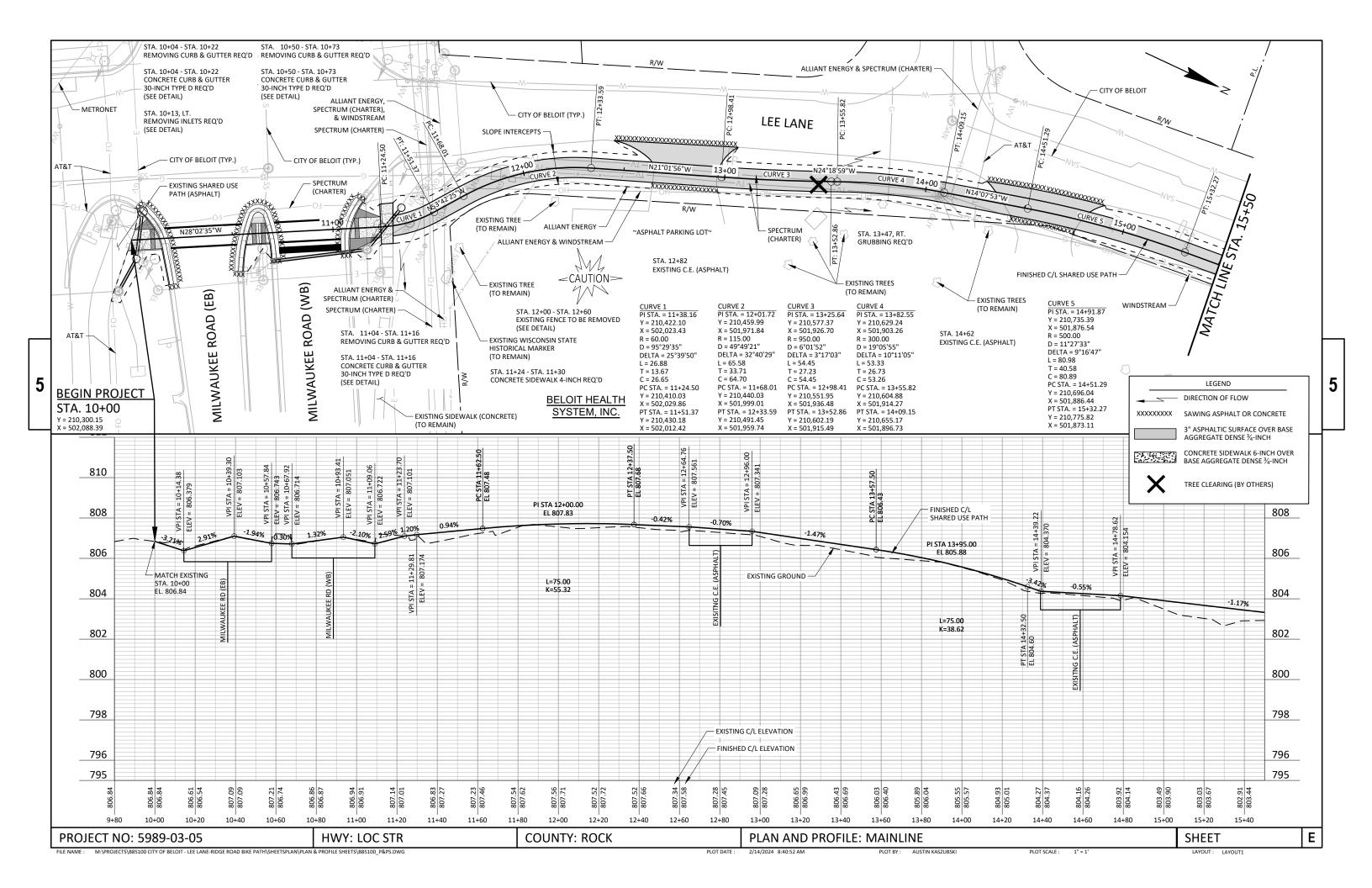
LAYOUT NAME - 02

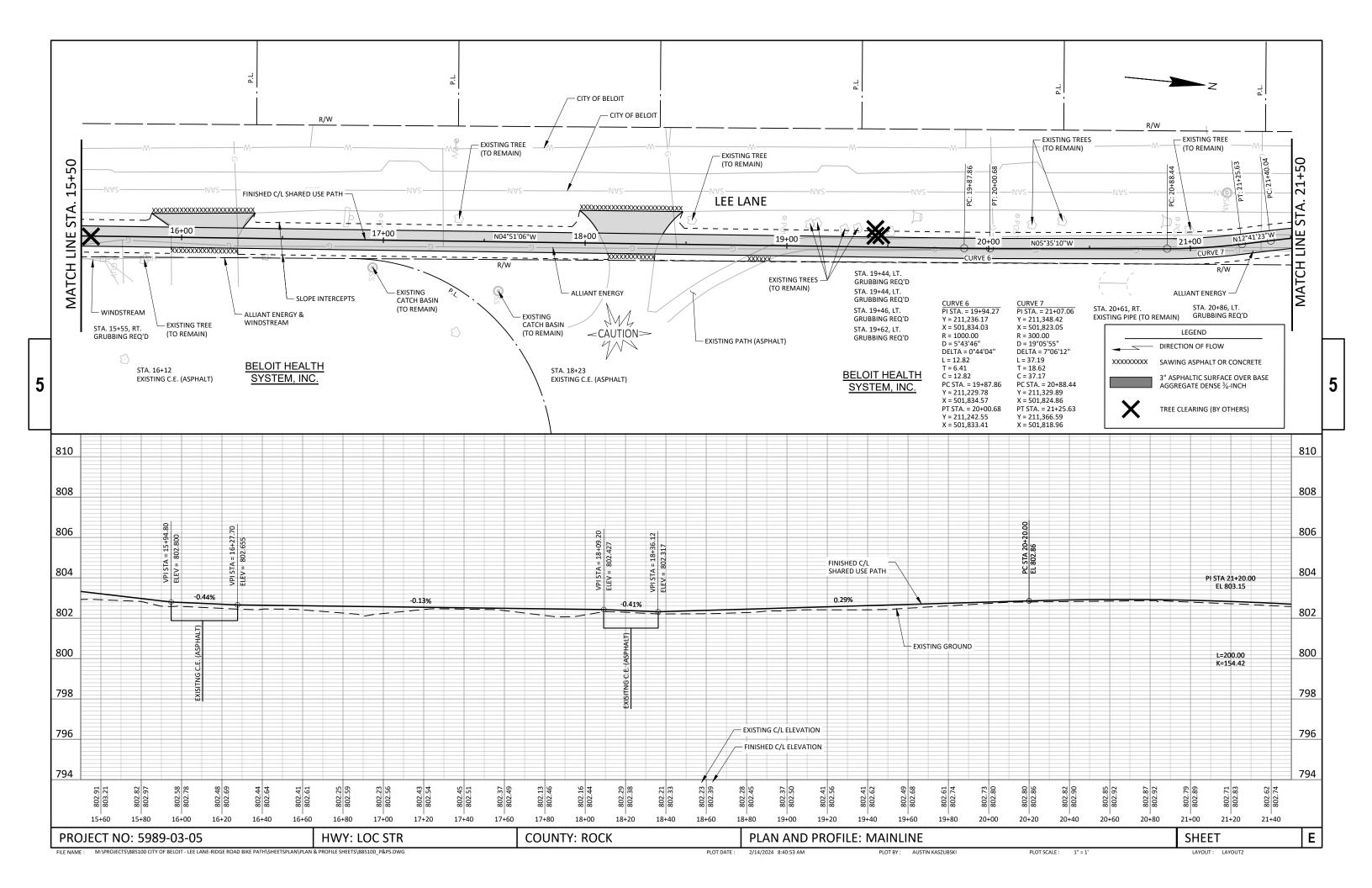
COMMENTS

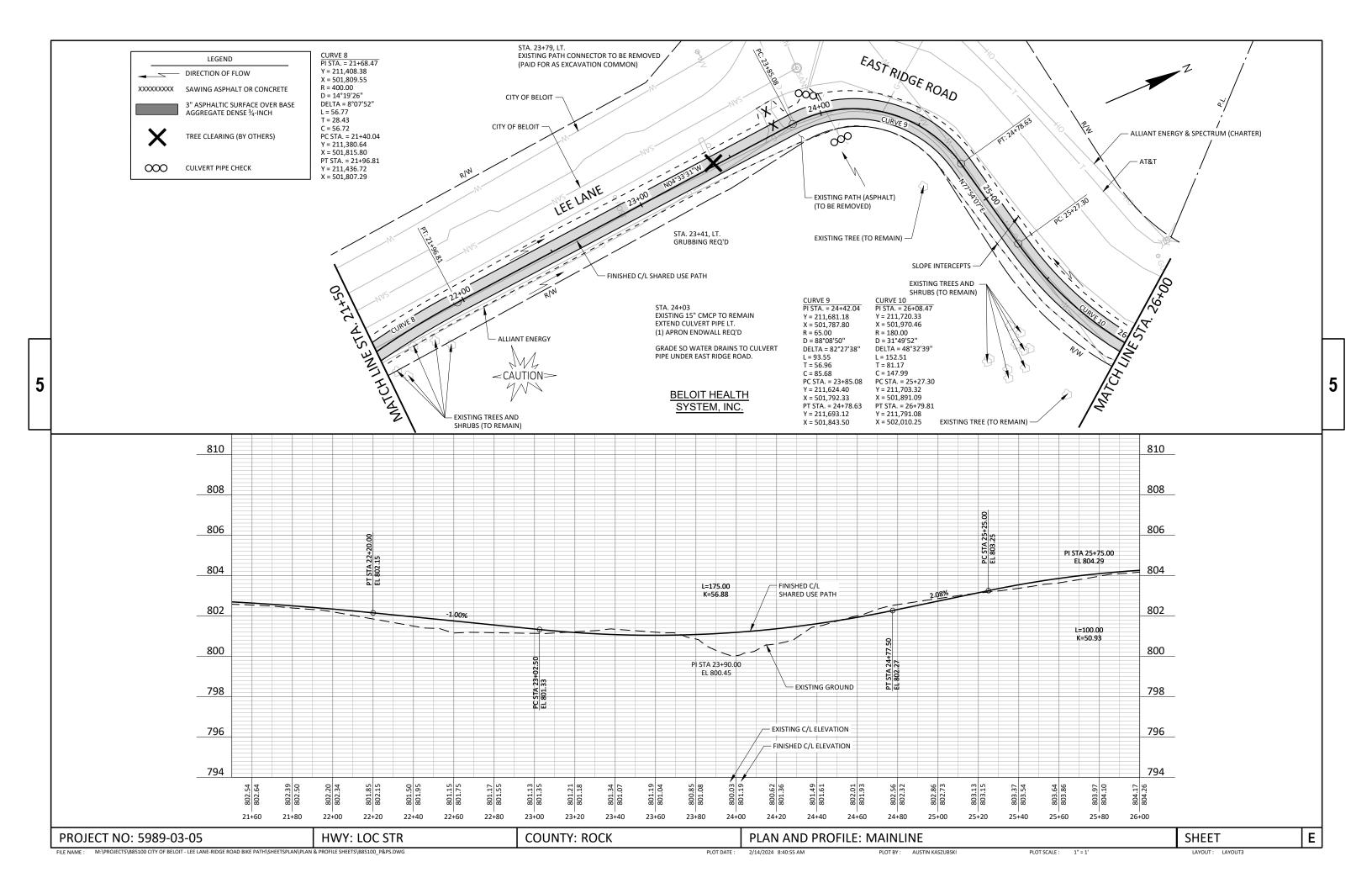
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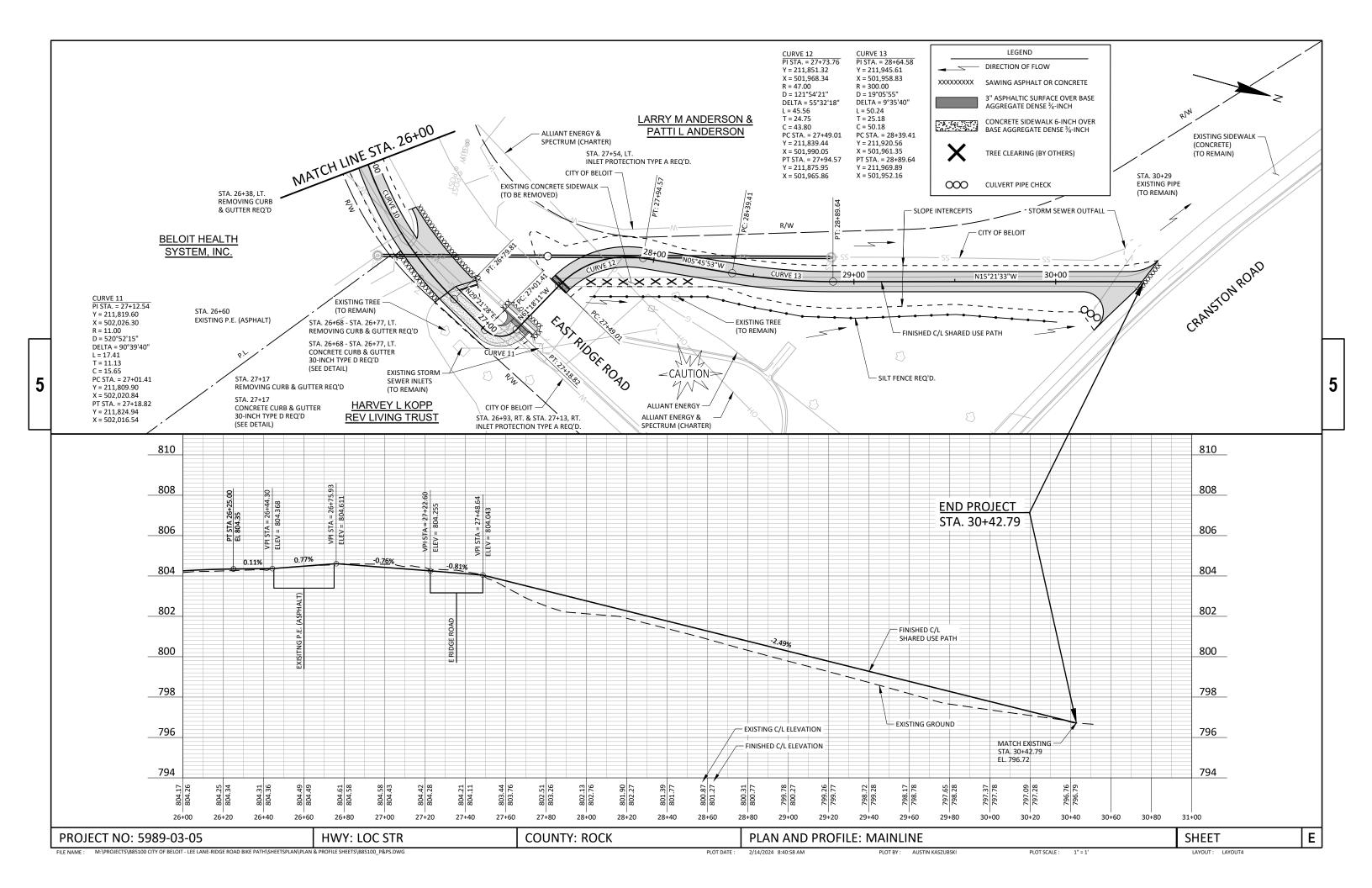
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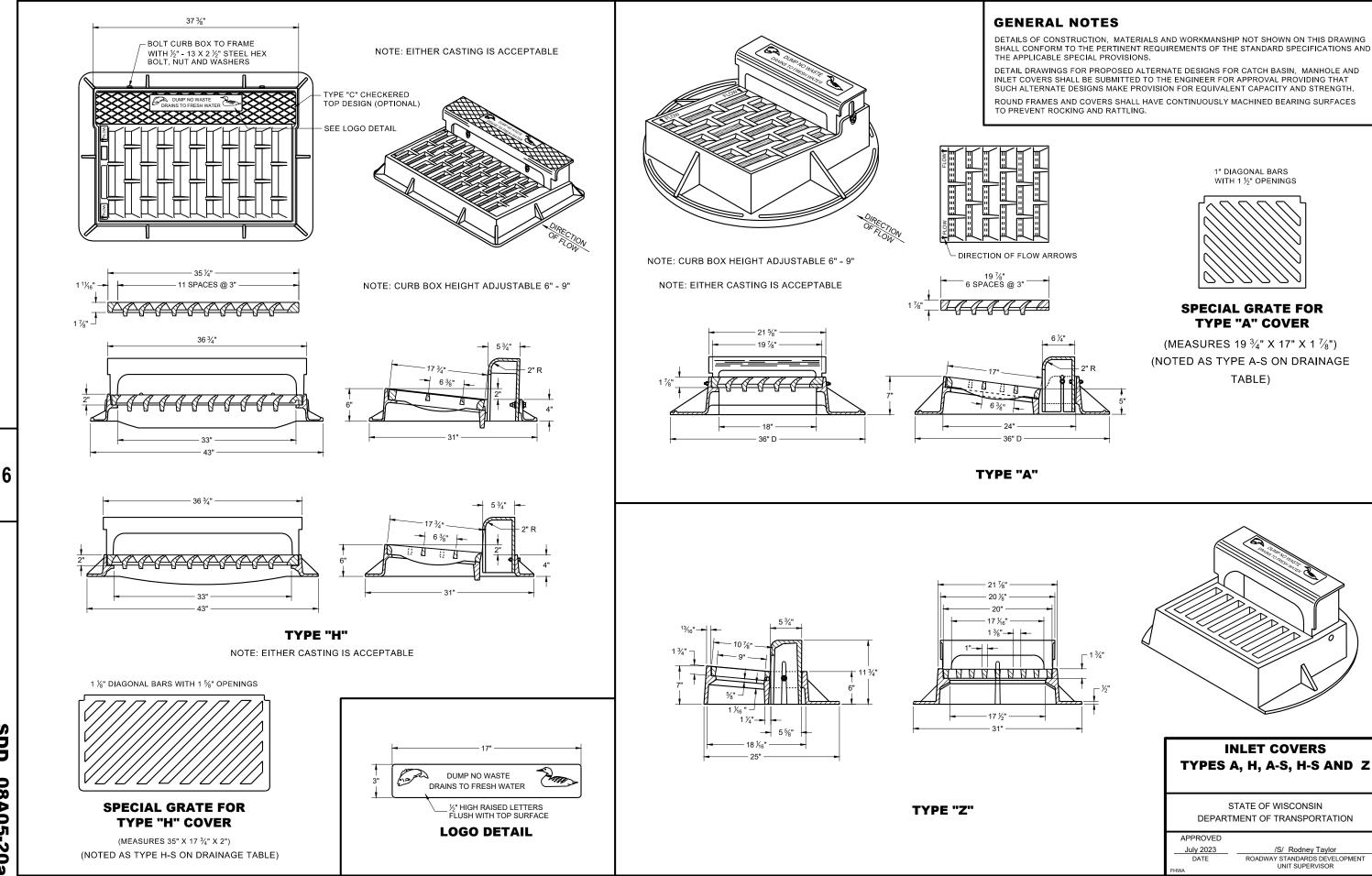




# Standard Detail Drawing List

08A05-20A	INLET COVERS TYPE A, H, A-S, H-S & Z
08A05-20B	INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM
08A05-20D	INLET COVER TYPE BW, MANHOLE COVERS, TYPE K, J, J-S, L & M
08в09-03	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT, 8-FT, 9-FT, 10-FT DIAMETER
08C06-02	INLETS 3-FT AND 4-FT DIAMETER
08C07-02	INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT
08D01-23A	CONCRETE CURB & GUTTER
08D01-23B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08D05-21A	CURB RAMPS TYPES 1 AND 1-A
08D05-21B	CURB RAMPS TYPES 2 AND 3
08D05-21C	CURB RAMPS TYPES 4A AND 4A1
08D05-21D	CURB RAMPS TYPE 4B AND 4B1
08D05-21E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08D05-21F	CURB RAMPS RADIAL DETECTABLE WARNING FIELD APPLICATIONS
08D05-21G	CURB RAMPS RECTANGULAR AND RADIAL DETECTABLE WARNING PLATES
08D16-11	CONCRETE GUTTER, CURB AND GUTTER AND PAVEMENT TIES
08D20-01	DRIVEWAYS WITH CURB & GUTTER RETURNS
08D21-01	DRIVEWAYS WITHOUT CURB & GUTTER
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08E15-01	CULVERT PIPE CHECK
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
09в02-10	CONDUIT
09C02-09	CONCRETE BASES, TYPES 1, 2, 5, & 6
11в02-02	CONCRETE MEDIAN NOSE
15в03-15в	FENCE CHAIN LINK
15C05-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15С18-08в	MEDIAN ISLAND MARKING MEDIAN ISLAND NOSE
15C33-04	STOP LINE AND CROSSWALK PAVEMENT MARKING
15C35-06A	PAVEMENT MARKING (INTERSECTIONS)
15D12-12A	TRAFFIC CONTROL, LANE CLOSURE, WITH TEMPORARY RUMBLE STRIPS
15D20-07A	TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY
15D20-07в	TRAFFIC CONTROL, SINGLE RIGHT LANE CLOSURE, UNDIVIDED NON-FREEWAY/EXPR
15D20-07C	TRAFFIC CONTROL, SINGLE LEFT LANE CLOSURE, UNDIVIDED NON-FREEWAY/EXPRE
15D21-07A	TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
15D21-07в	TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
15D30-09A	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-09в	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-09C	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-09G	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

RESSWAY ESSWAY

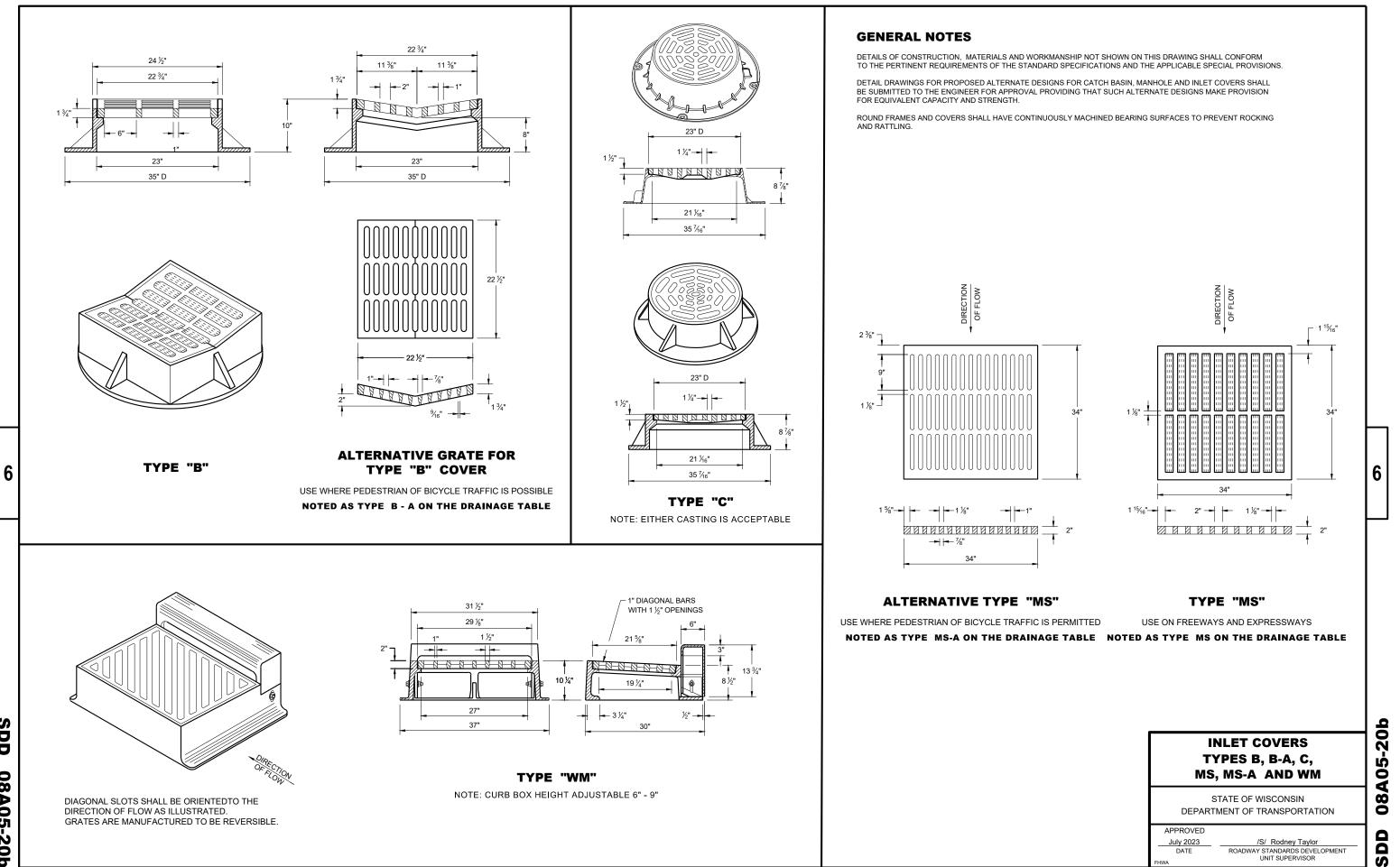


SDD 08A05-20a

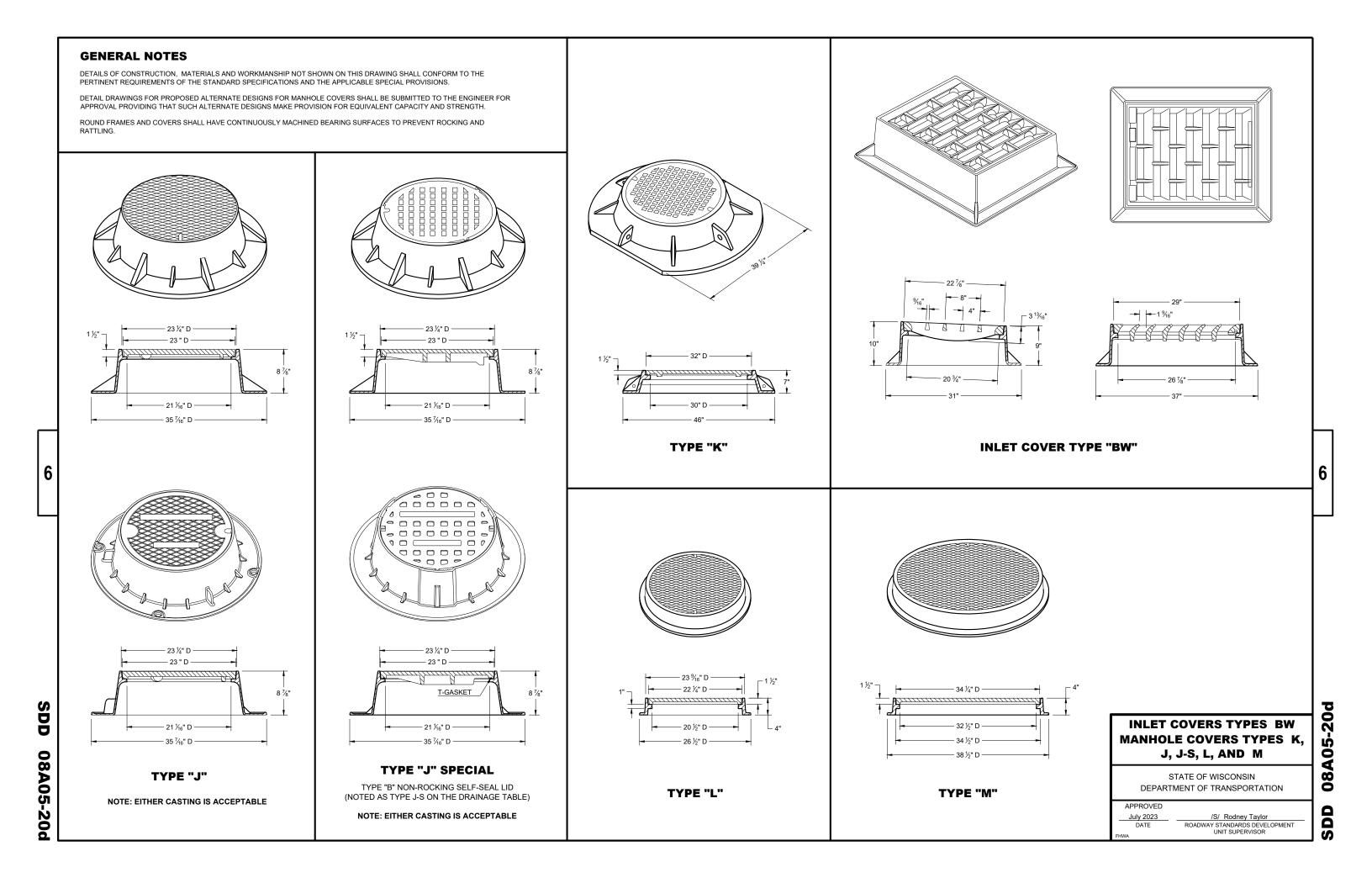
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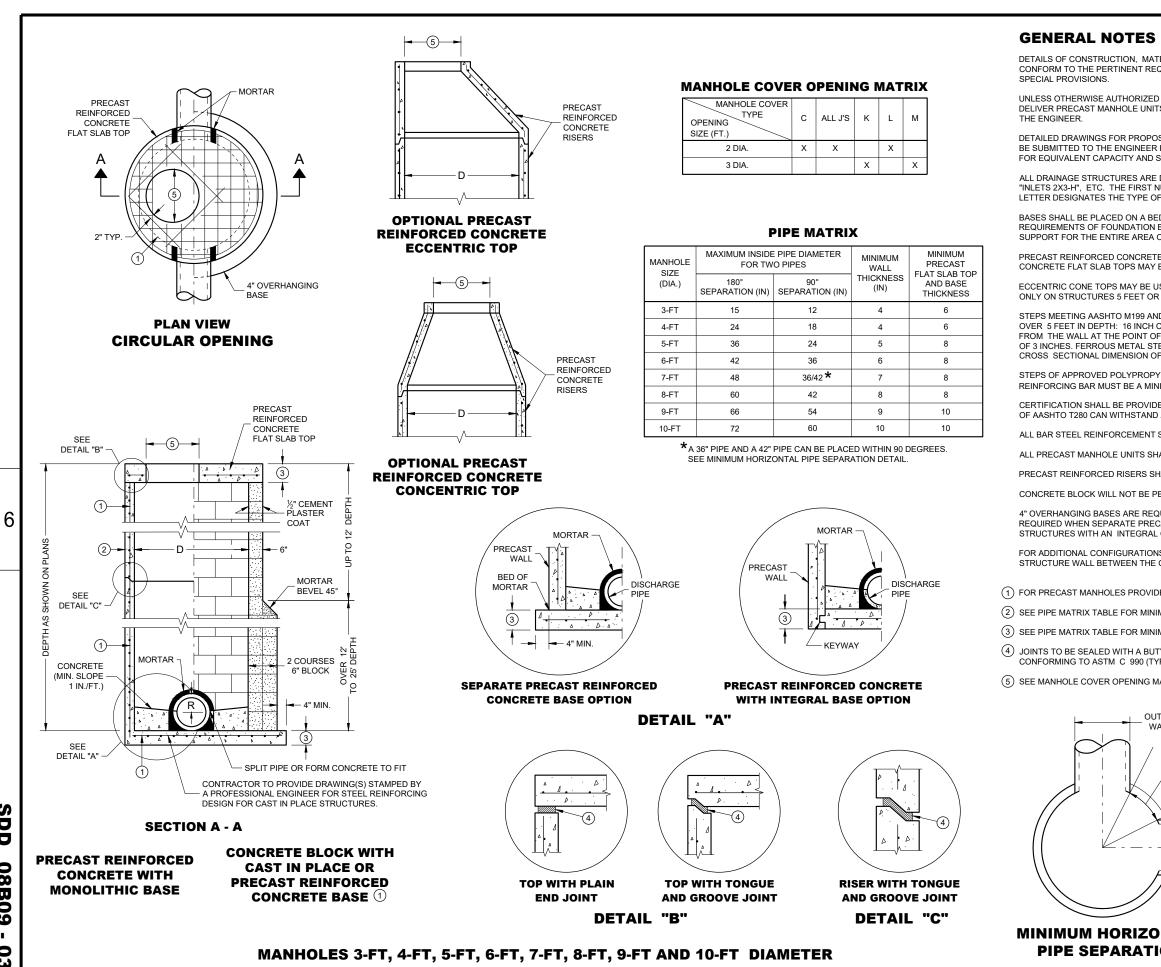
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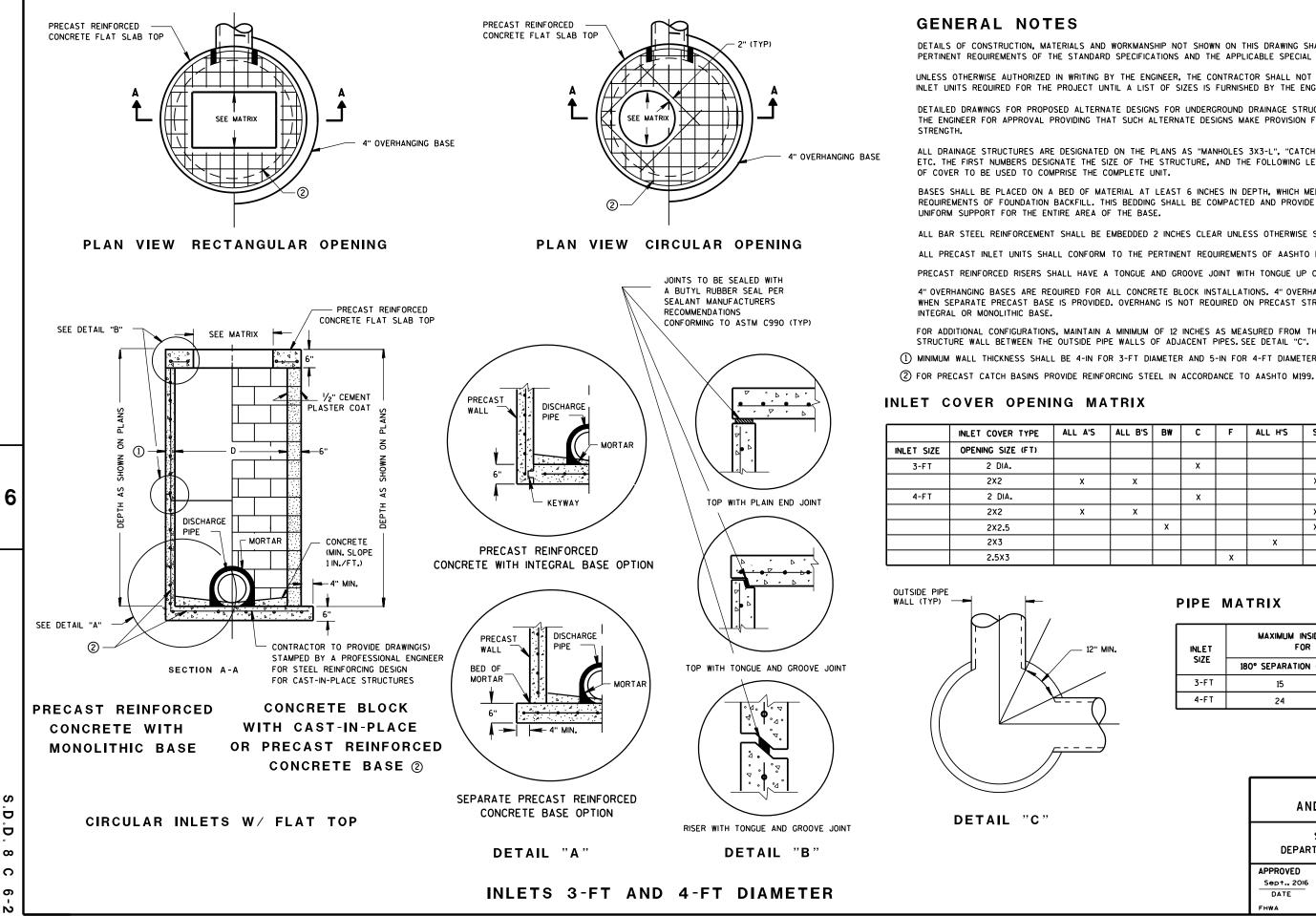


SDD 08A05-20b





S		
	NOT SHOWN ON THIS DRAWING SHALL ARD SPECIFICATIONS AND THE APPLICABLE	
	ER, THE CONTRACTOR SHALL NOT ORDER AND ECT UNTIL A LIST OF SIZES IS FURNISHED BY	
	OR UNDERGROUND DRAINAGE STRUCTURES SHALL THAT SUCH ALTERNATE DESIGNS MAKE PROVISION	
	AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", ZE OF THE STRUCTURE, AND THE FOLLOWING MPRISE THE COMPLETE UNIT.	
	NCHES IN DEPTH, WHICH MEETS THE HALL BE COMPACTED AND PROVIDE UNIFORM	
RETE CONE TOPS (ECCENTRIC C AY BE USED ON CONCRETE BLC	R CONCENTRIC) OR PRECAST REINFORCED DCK STRUCTURES.	
	CONCENTRIC CONE TOPS SHALL BE USED HERWISE DIRECTED BY THE ENGINEER.	
CH C-C MAXIMUM SPACING; PRO FOF EMBEDMENT; MINIMUM LE	MENTS SHALL BE INSTALLED IN ALL STRUCTURES DJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES NGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT FED TO RESIST CORROSION SHALL HAVE A MINIMUM	
	NFORCEMENT BAR ARE ACCEPTABLE. THE REQUIREMENTS OF ASTM A615.	
	WHEN TESTED IN ACCORDANCE WITH SECTION 10 3S. AND A HORIZONTAL LOAD OF 400 LBS.	
	IES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.	
SHALL CONFORM TO THE PERT	INENT REQUIREMENTS OF AASHTO DESIGNATION M199.	
SHALL HAVE A TONGUE AND G	ROOVE JOINT WITH TONGUE UP OR DOWN.	
E PERMITTED FOR STRUCTURE	S GREATER THAN 4 FEET IN DIAMETER.	
	BLOCK INSTALLATIONS. 4" OVERHANG IS 'ERHANG IS NOT REQUIRED ON PRECAST	6
IONS, MAINTAIN A MINIMUM OF HE OUTSIDE PIPE WALLS OF AD	12 INCHES AS MEASURED FROM THE INSIDE OF THE JACENT PIPES. SEE DETAIL "D".	
VIDE REINFORCING STEEL IN A	CCORDANCE TO AASHTO M199.	
IINIMUM WALL THICKNESS FOR	PRECAST MANHOLES	
INIMUM THICKNESS OF PRECAS	ST FLAT SLAB TOPS AND BASES.	
BUTYL RUBBER SEAL PER SEAL. (TYP.).	ANT MANUFACTURERS RECOMMENDATIONS	
G MATRIX.		
OUTSIDE PIPE WALL (TYP.)		
/		
12" MIN.		
$\times$		
		8
()	MANHOLES, 3-FT, 4-FT	
<b>X</b>	5-FT, 6-FT, 7-FT, 8-FT, 9-FT	6
$\int_{T}$	AND 10-FT DIAMETER	
	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	08809
ONTAL	APPROVED November 2021 /S/ Rodney Taylor	<u>م ا</u>
TION	DATE ROADWAY STANDARDS DEVELOPMENT	SDD
	FHWA	1 0)



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

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE

(1) MINIMUM WALL THICKNESS SHALL BE 4-IN FOR 3-FT DIAMETER AND 5-IN FOR 4-FT DIAMETER PRECAST INLETS.

ALL B'S	B₩	С	F	ALL H'S	S	Т	v	WM	Z
		х							х
х					х		х		
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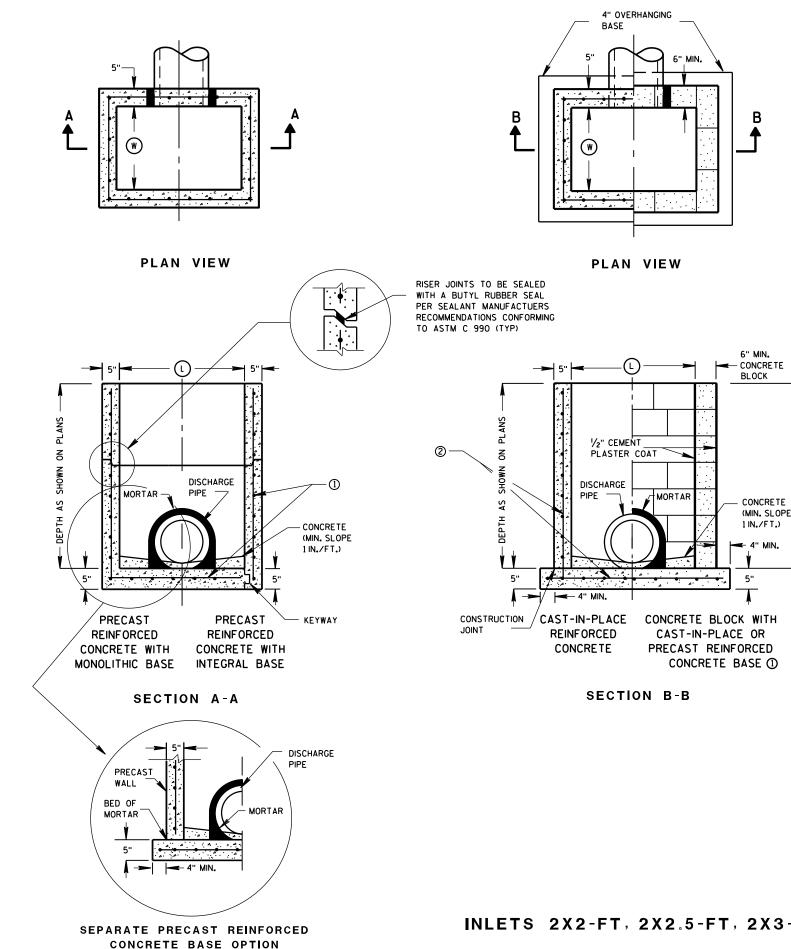
### PIPE MATRIX

INLET	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES				
SIZE	180° SEPARATION (IN)	90° SEPARATION (IN)			
3-F T	15	12			
4-F T	24	18			

INLETS 3-FT AND 4-FT DIAMETER						
	STATE OF WISCONSIN MENT OF TRANSPORTATION					
APPROVED						
Sept., 2016	/S/ Rodney Taylor					
DATE	ROADWAY STANDARDS DEVELOPMENT					
FHWA	UNIT SUPERVISOR					

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# **GENERAL NOTES**

ENGINEER.

EQUIVALENT CAPACITY AND STRENGTH.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

(1) FOR PRECAST INLETS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

CAST-IN-PLACE STRUCTURES.

### INLET COVER MATRIX

INLET SIZE		INLET COVER TYPE	ALL A'S	AL
	WIDTH (W)(FT)	LENGTH () (FT)		
2X2-FT	2	2	х	
2X2.5-FT	2	2.5		
2X3-FT	2	3		
2.5X3-FT	2.5	3		

### PIPE MATRIX

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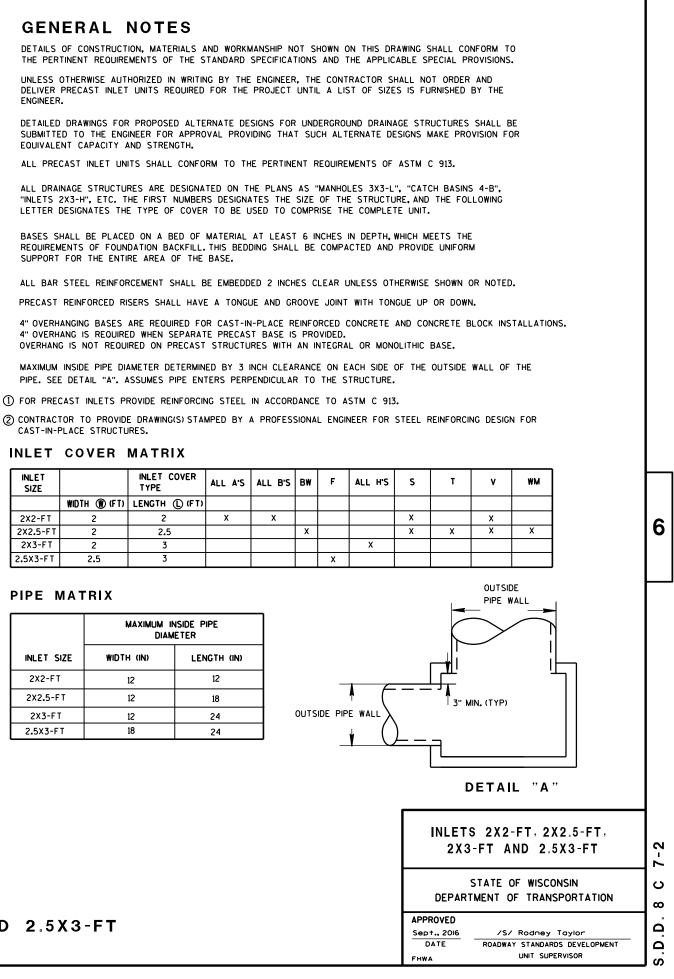
	MAXIMUM INSIDE PIPE DIAMETER				
INLET SIZE	WIDTH (IN)	LENGTH (IN)			
2X2-FT	12	12			
2X2.5-FT	12	18			
2X3-FT	12	24			
2.5X3-FT	18	24			

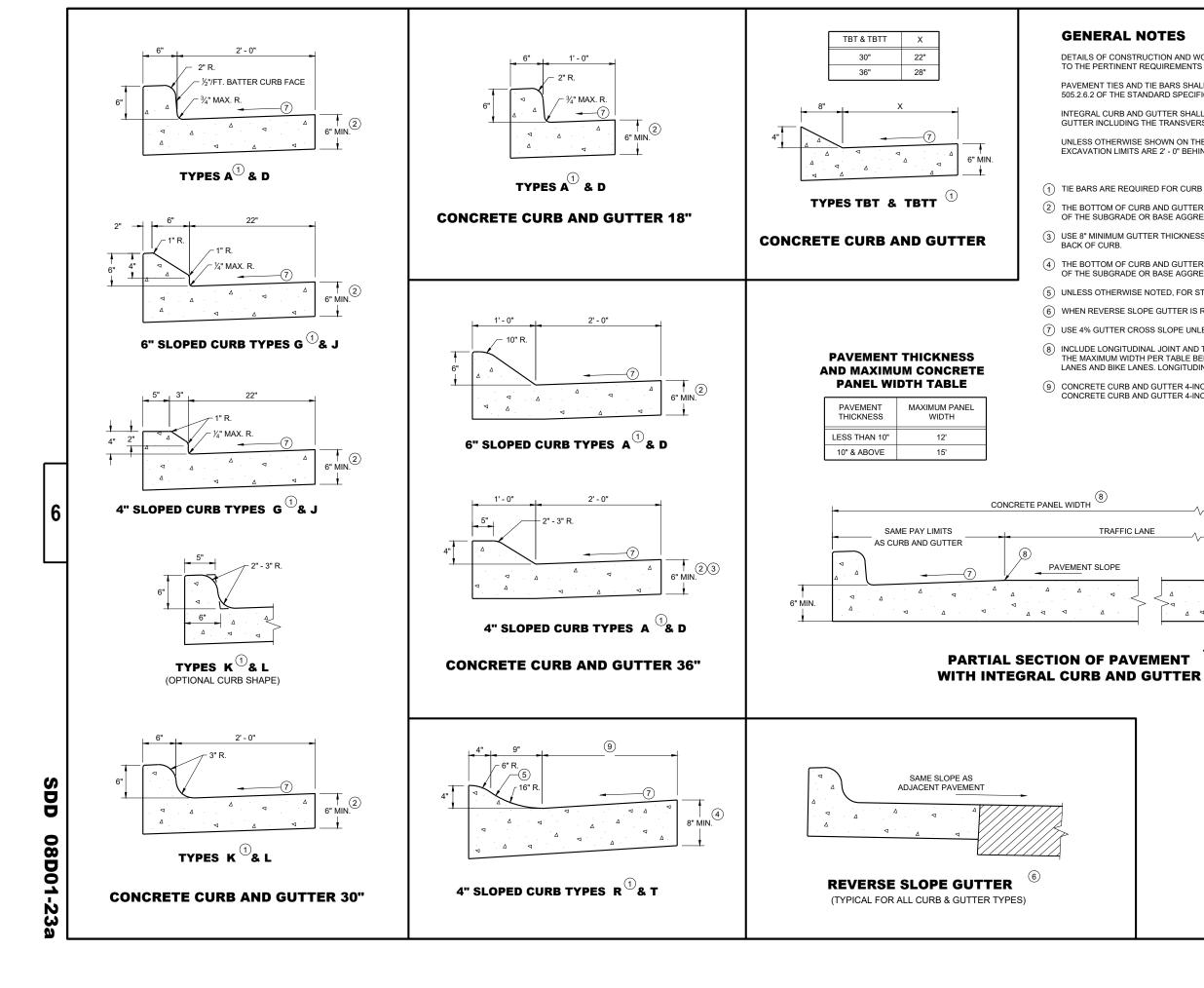
INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

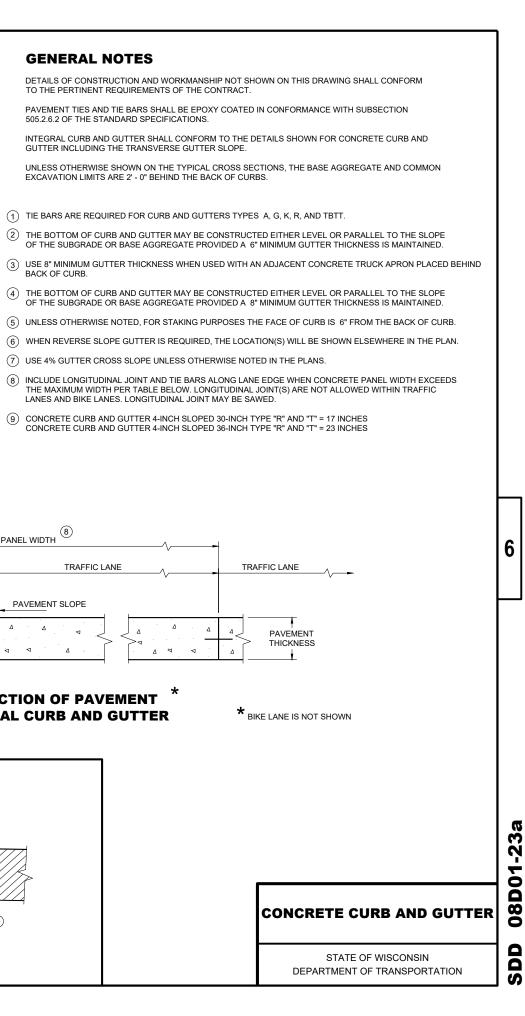
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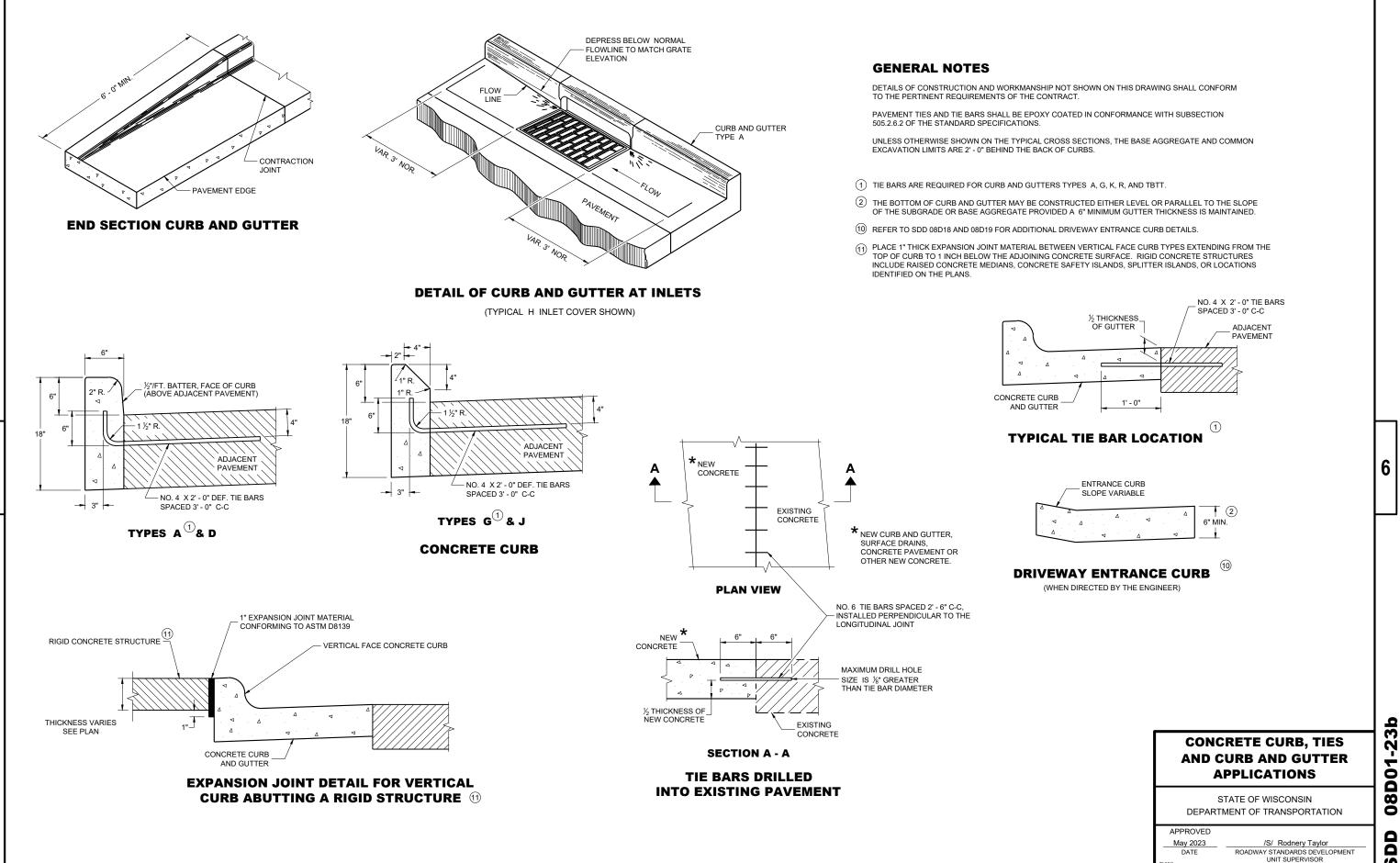
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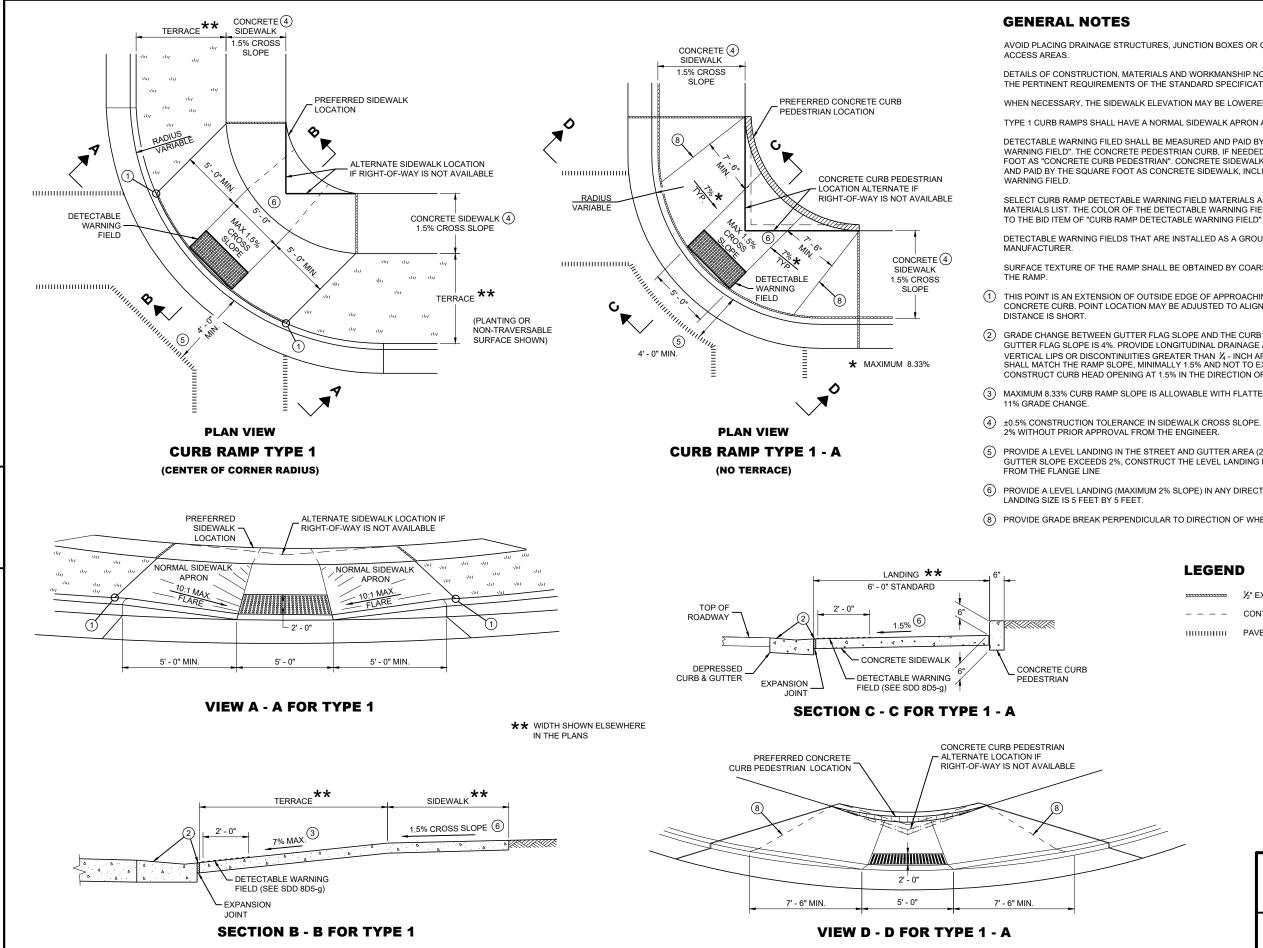
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	OD OTUED	OBSTRUCTIONS IN FRONT OF RAMP	
JIURES, JUNCTION DORES	OK UTHER	OBSTRUCTIONS IN FRONT OF RAIVE	

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

WHEN NECESSARY, THE SIDEWALK ELEVATION MAY BE LOWERED TO MEET THE HIGH POINT ON THE RAMP.

TYPE 1 CURB RAMPS SHALL HAVE A NORMAL SIDEWALK APRON AND CURB ON BOTH SIDES OF RAMP

DETECTABLE WARNING FILED SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS "CURB RAMP DETECTABLE WARNING FIELD". THE CONCRETE PEDESTRIAN CURB, IF NEEDED, SHALL BE MEASURED AND PAID BY THE LINEAR FOOT AS "CONCRETE CURB PEDESTRIAN". CONCRETE SIDEWALK IN THE CURB RAMP AREA SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS CONCRETE SIDEWALK, INCLUDING THE AREA UNDER THE DETECTABLE

SELECT CURB RAMP DETECTABLE WARNING FIELD MATERIALS AND DEVICES FROM THE DEPARTMENT'S APPROVED MATERIALS LIST. THE COLOR OF THE DETECTABLE WARNING FIELD IS SPECIFIED ELSEWHERE AND IS INCIDENTAL

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME

SURFACE TEXTURE OF THE RAMP SHALL BE OBTAINED BY COARSE BROOMING TRANSVERSE TO THE SLOPE OF

THIS POINT IS AN EXTENSION OF OUTSIDE EDGE OF APPROACHING SIDEWALK WHERE IT MEETS THE BACK OF CONCRETE CURB. POINT LOCATION MAY BE ADJUSTED TO ALIGN WITH BEGINNING OF FULL-HEIGHT CURB IF THIS

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL

(3) MAXIMUM 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED

±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED

PROVIDE A LEVEL LANDING IN THE STREET AND GUTTER AREA (2% MAXIMUM SLOPE IN ANY DIRECTION). WHEN THE GUTTER SLOPE EXCEEDS 2%, CONSTRUCT THE LEVEL LANDING IN THE STREET AREA. 4 FOOT WIDTH IS MEASURED

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

### LEGEND

 $ u_2$ " EXPANSION JOINT SIDEWALK
 CONTRACTION JOINT FIELD LOCATED

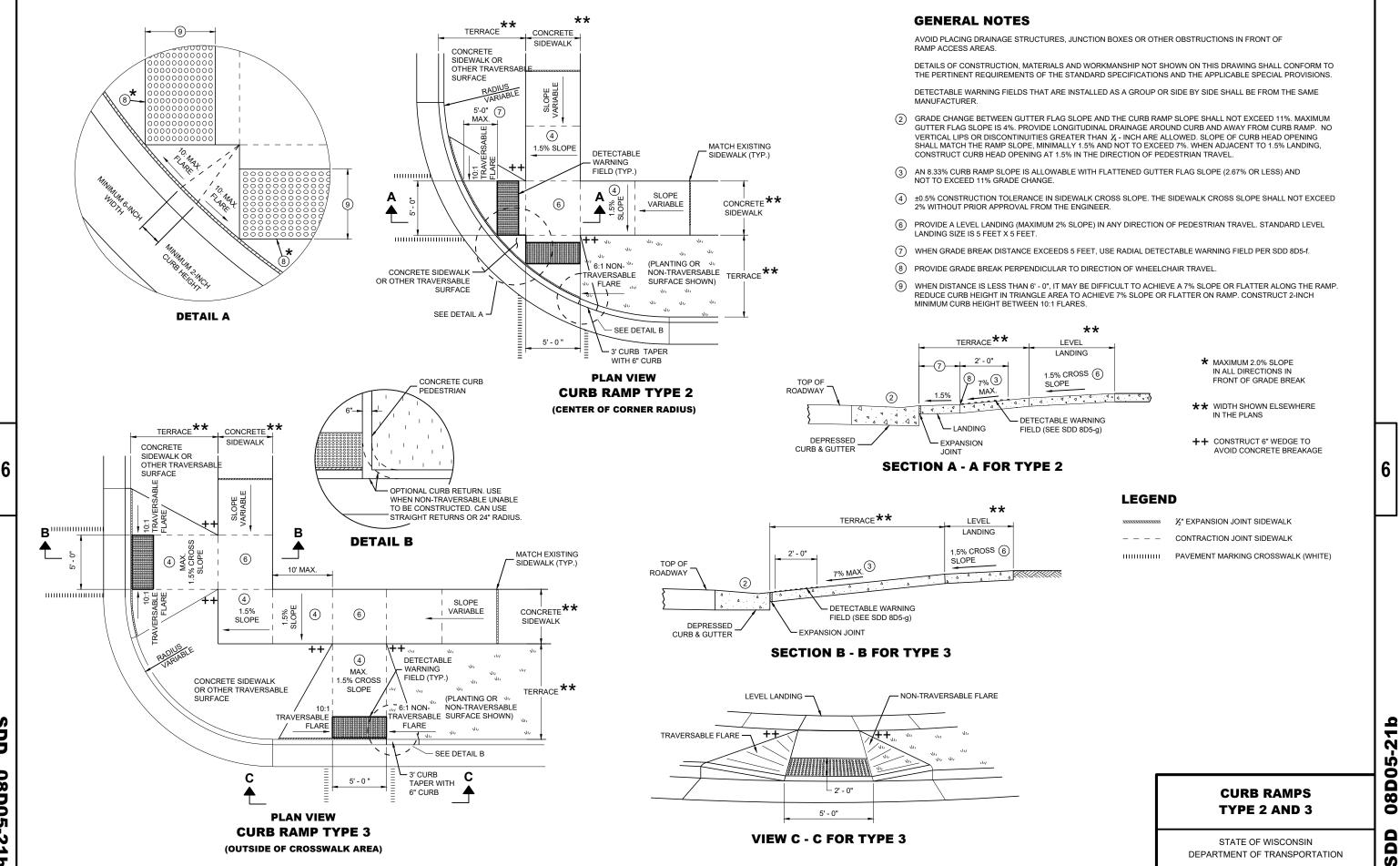
IIIIIIIIII PAVEMENT MARKING CROSSWALK (WHITE)

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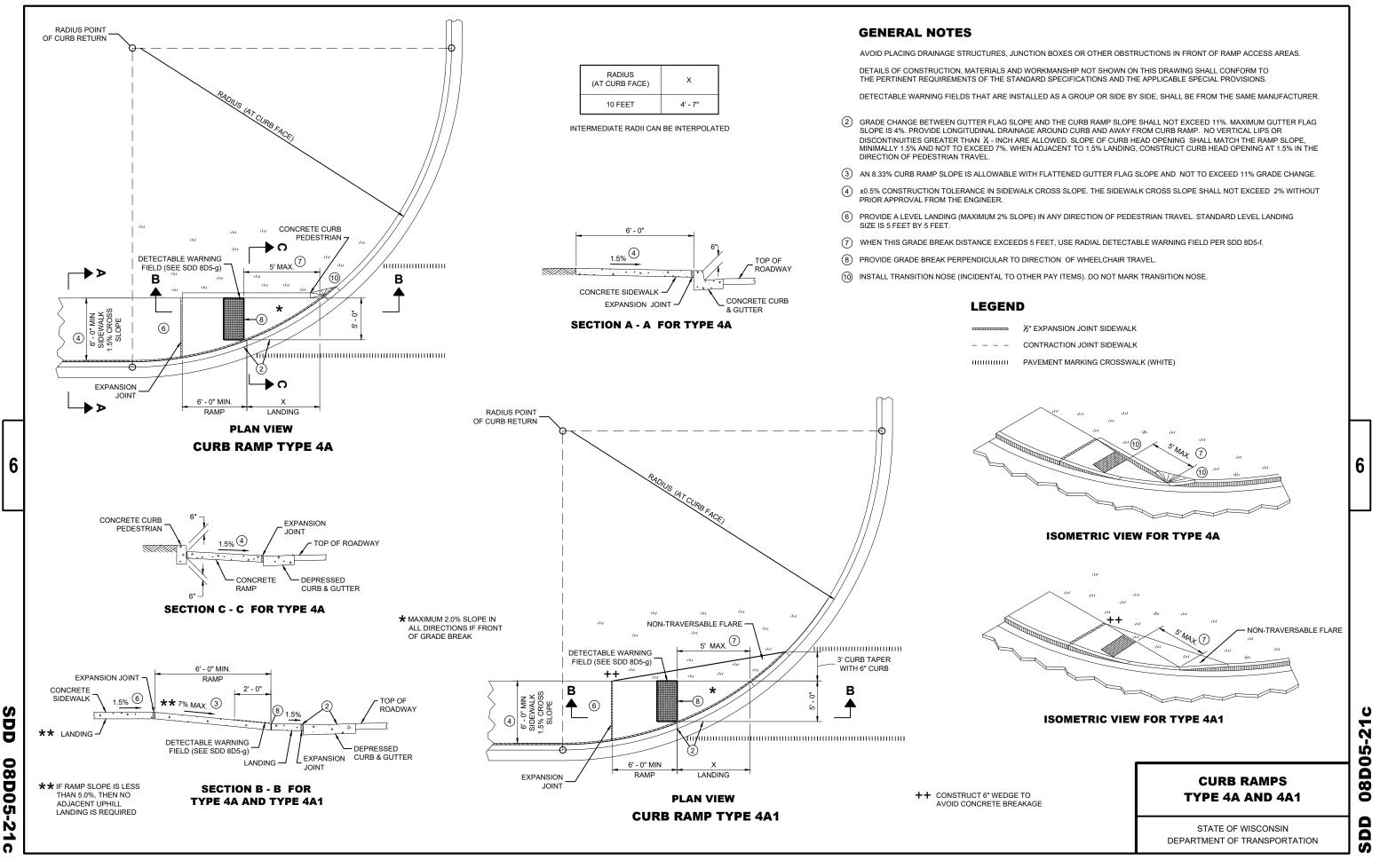
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### **CURB RAMPS TYPE 1 AND 1-A**

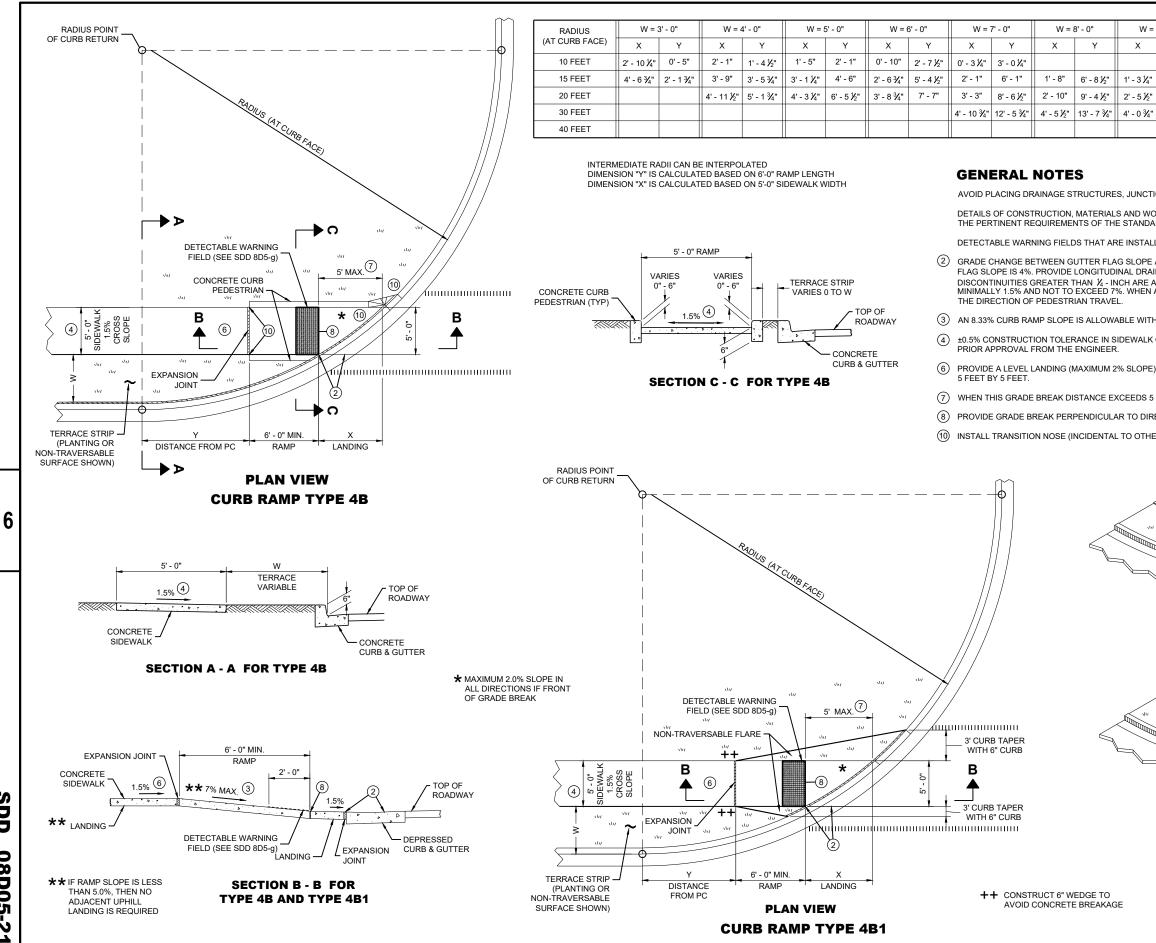
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION



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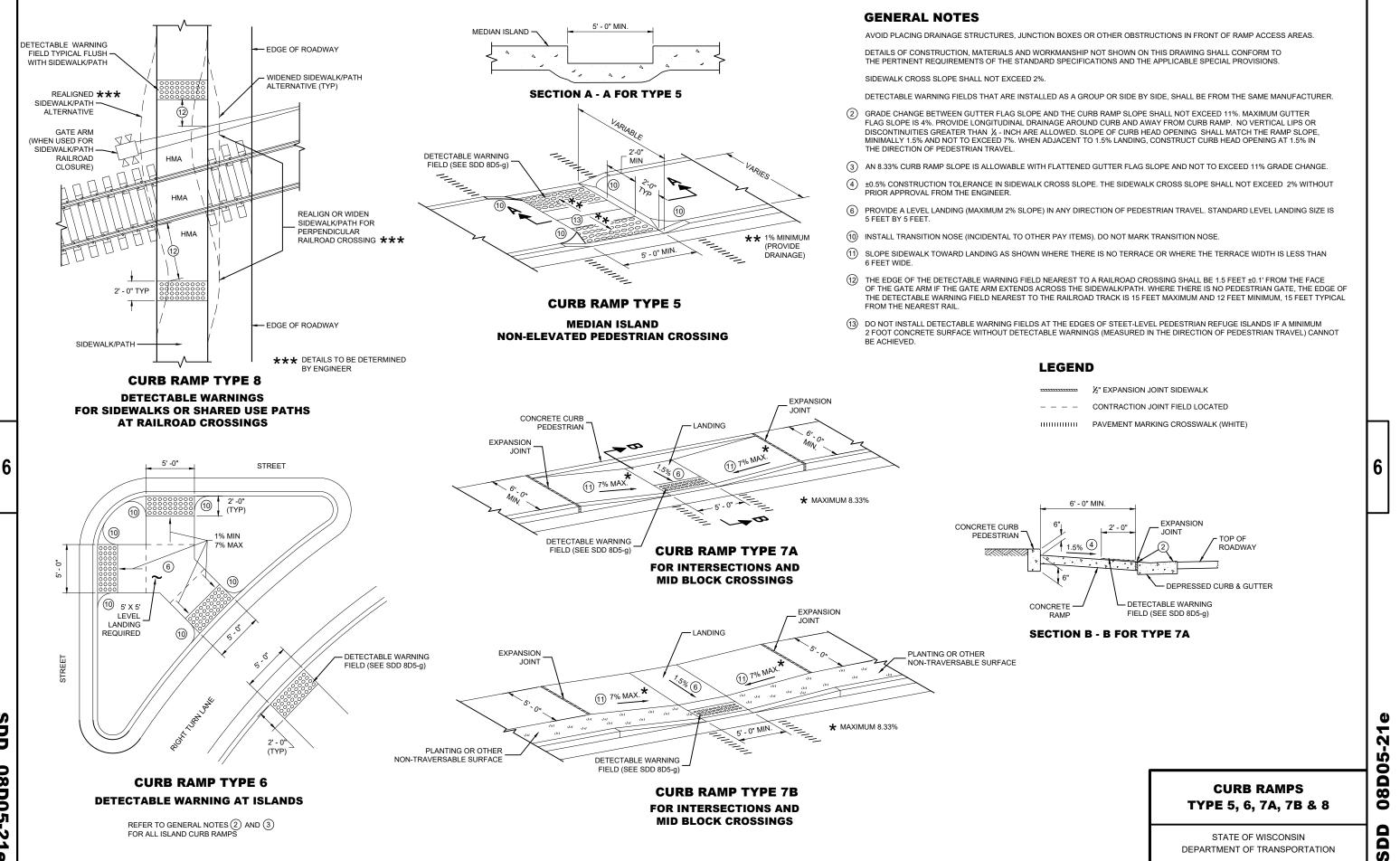


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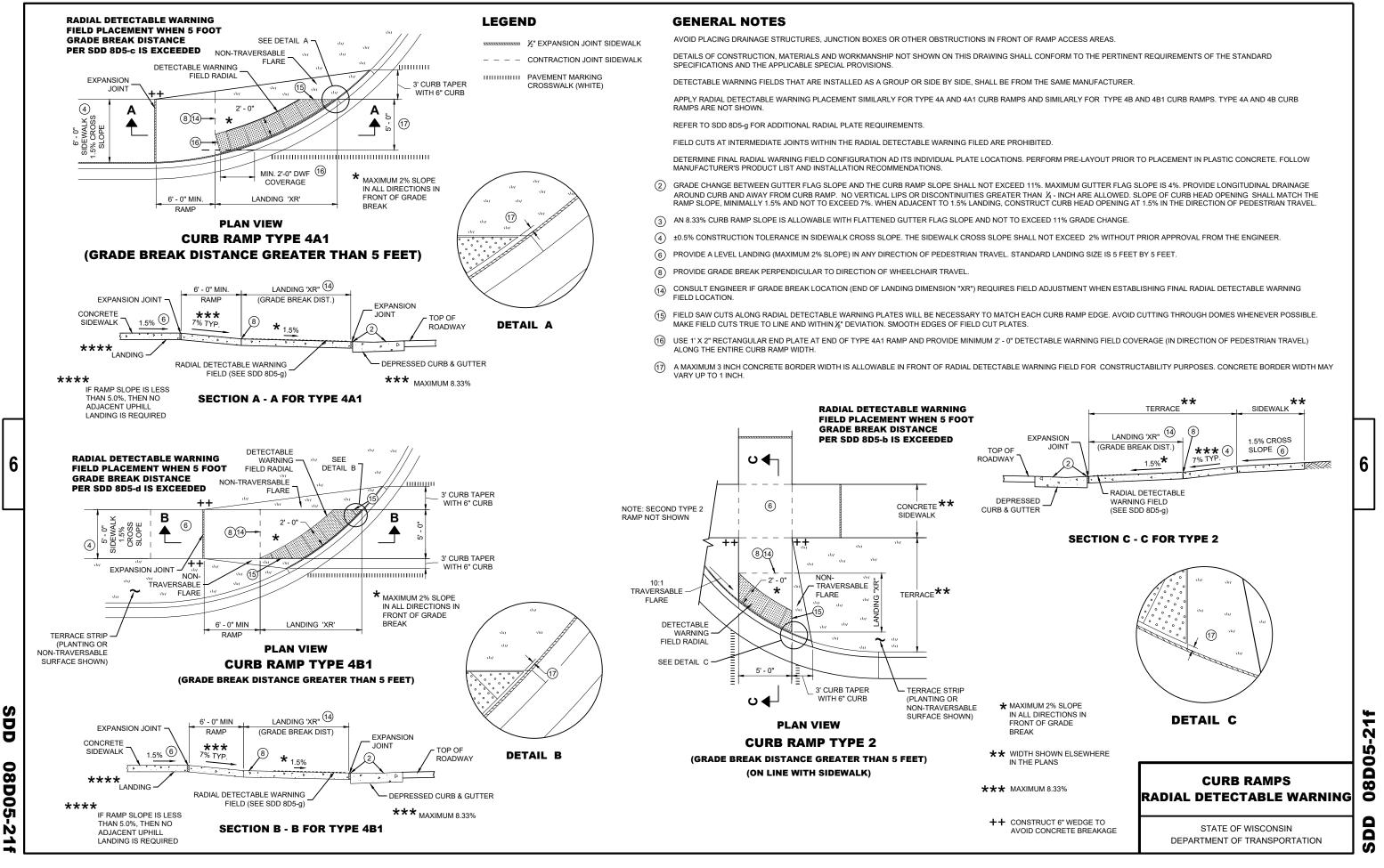


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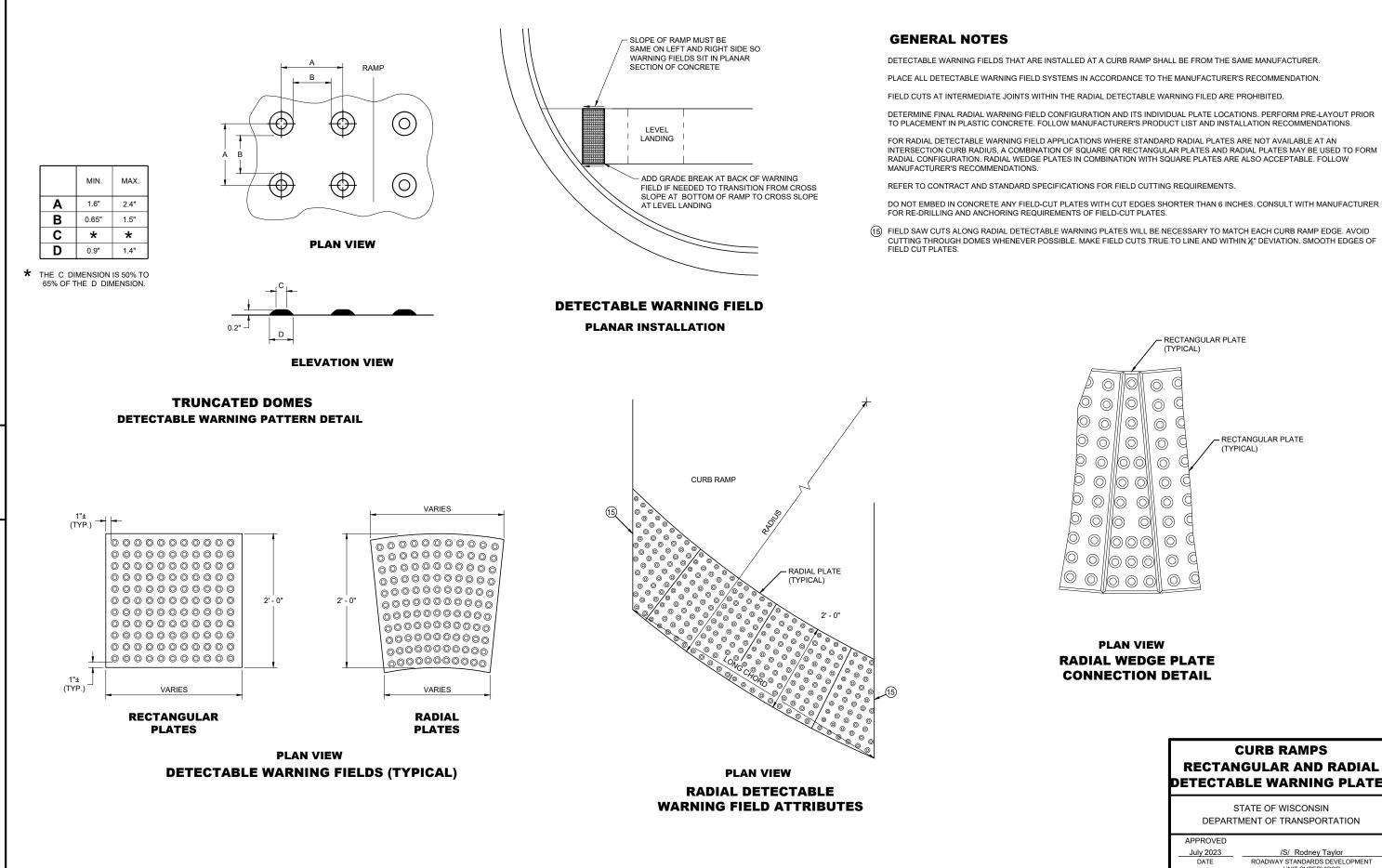
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	Y	x	Y	LEGEN	n –	
				LEGEN		
V4"	7' - 2 ½"	0' - 10 ¾"	7' - 7 ¼"		$\frac{1}{2}$ " EXPANSION JOINT SIDEWALK	
1/2"	10' - 1 ¼"	2' - 1 ¼"	10' - 9"		CONTRACTION JOINT SIDEWALK	
<b>%</b> "	14' - 8 ½"	3' - 8 ½"	15' - 8 ¼"		PAVEMENT MARKING CROSSWALK (WHITE)	
		4' - 10 ¾"	19' - 8 ¼"	J		
					RAMP ACCESS AREAS.	
				HIS DRAWING SHALL		
ALL	ED AS A G	ROUP OR S	SIDE BY S	DE, SHALL BE FROM	THE SAME MANUFACTURER.	
PE A	ND THE C	URB RAMP	SLOPE SH	HALL NOT EXCEED 11	%. MAXIMUM GUTTER	
RAIN	AGE ARO	UND CURB	AND AWA	Y FROM CURB RAMP.	NO VERTICAL LIPS OR	
					ATCH THE RAMP SLOPE, AD OPENING AT 1.5% IN	
ITH	FLATTENE	ED GUTTER	FLAG SLO	OPE AND NOT TO EXC	EED 11% GRADE CHANGE.	
LK	CROSS SLO	OPE. THE S	IDEWALK	CROSS SLOPE SHALL	NOT EXCEED 2% WITHOUT	
PE)	IN ANY DIF	RECTION O	F PEDEST	RIAN TRAVEL. STAND	ARD LEVEL LANDING SIZE IS	
2 5 1			TECTABL	E WARNING FIELD PE		
		WHEELCH			K 3D0 9D3-1.	
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				CU	RB RAMPS	
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# **RECTANGULAR AND RADIAL** DETECTABLE WARNING PLATES

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

/S/ Rodney Taylor ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

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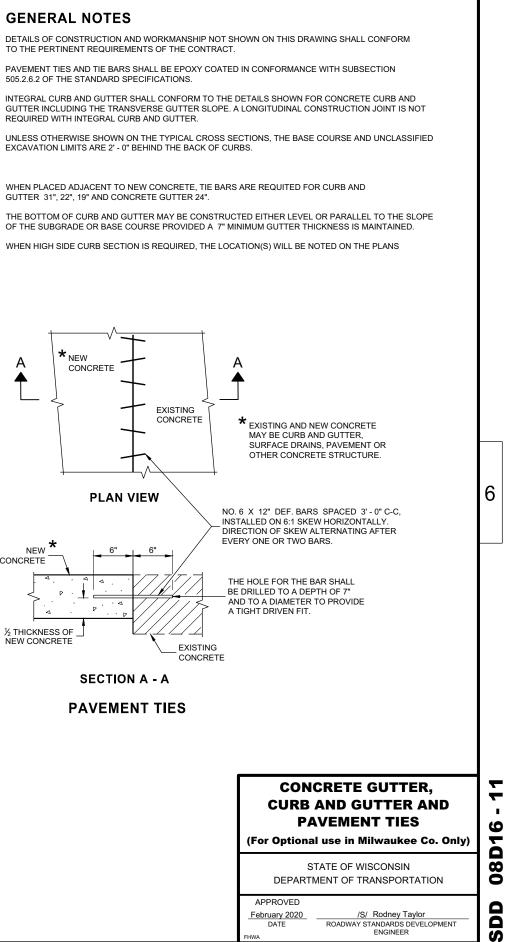
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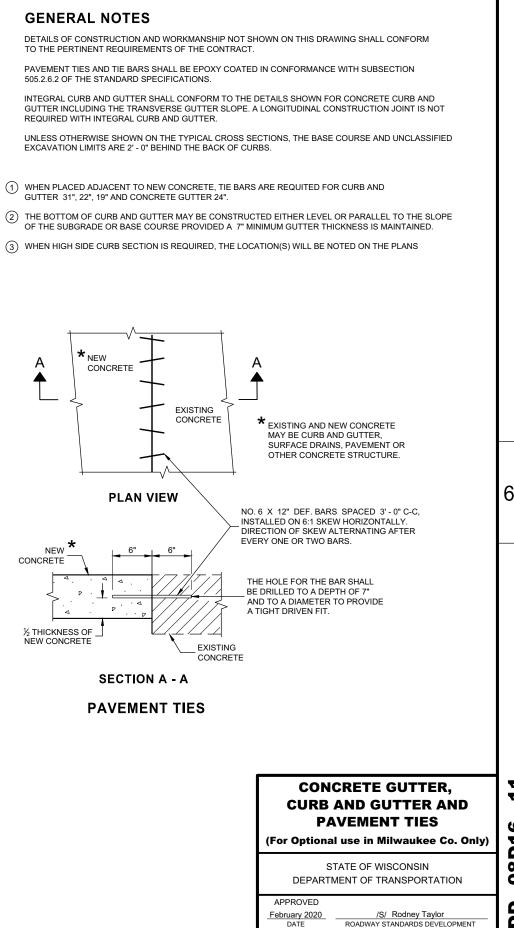
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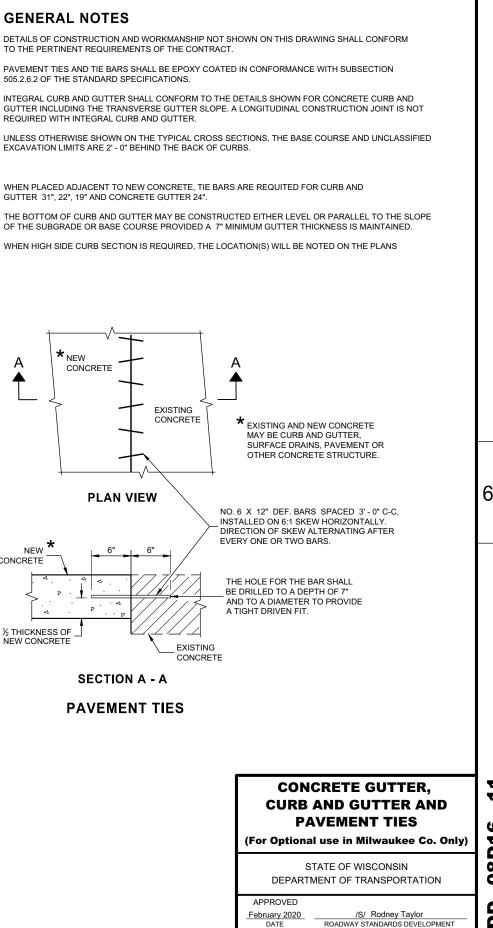
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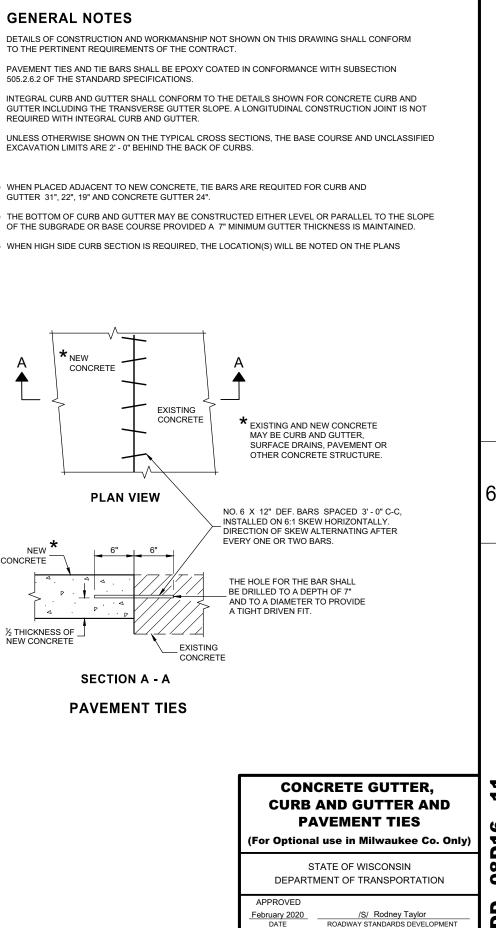
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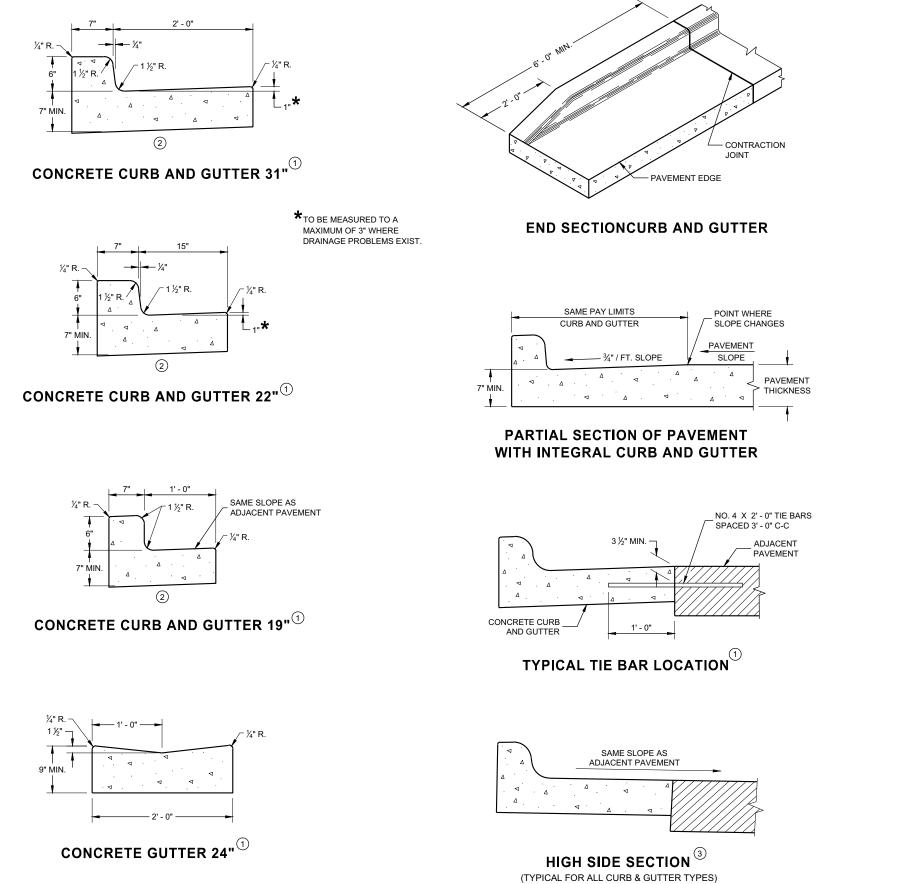






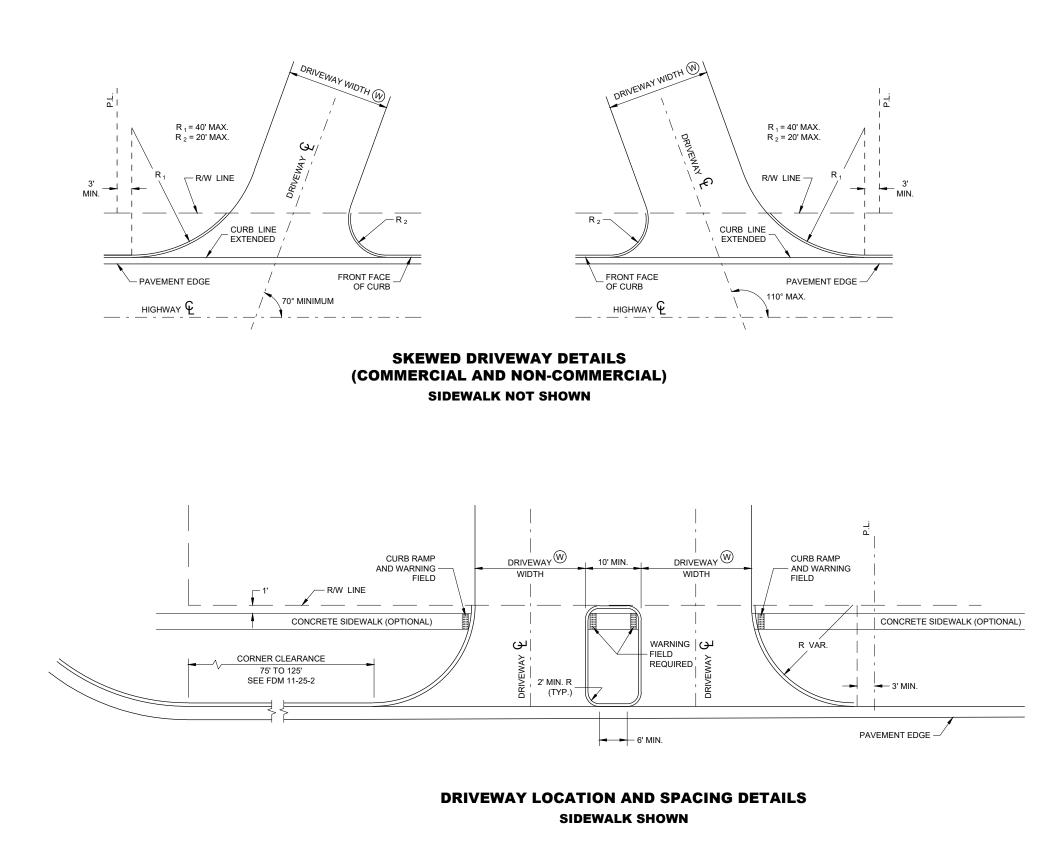






### **GENERAL NOTES**

ALL CURVILINEAR PRIVATE ENTRANCE OUTLINES SHALL BE CONTAINED WITHIN THE HIGHWAY R/W.



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A MAXIMUM RADIUS OF 10 FEET SHALL BE USED FOR NON-COMMERCIAL PRIVATE ENTRANCES. RADII FOR COMMERCIAL DRIVEWAYS SHALL BE DETERMINED BY THE ENGINEER BASED ON TRAFFIC AND DRIVEWAY PERMIT RESTRICTIONS.

THE MINIMUM ANGLE OF INTERSECTION BETWEEN THE DRIVEWAY AND HIGHWAY CENTERLINES SHALL BE 70°.

NO DRIVEWAY SHALL BE BUILT WITHIN 3 FEET OF THE PROPERTY LINE EXCEPT FOR EXISTING JOINT DRIVEWAY SHARED BY TWO OWNERS.

W: 12' MIN. - 24' MAX. RESIDENTIAL AND NON-COMMERCIAL (PE & FE)

16' MIN. - 35' MAX. COMMERCIAL (CE)

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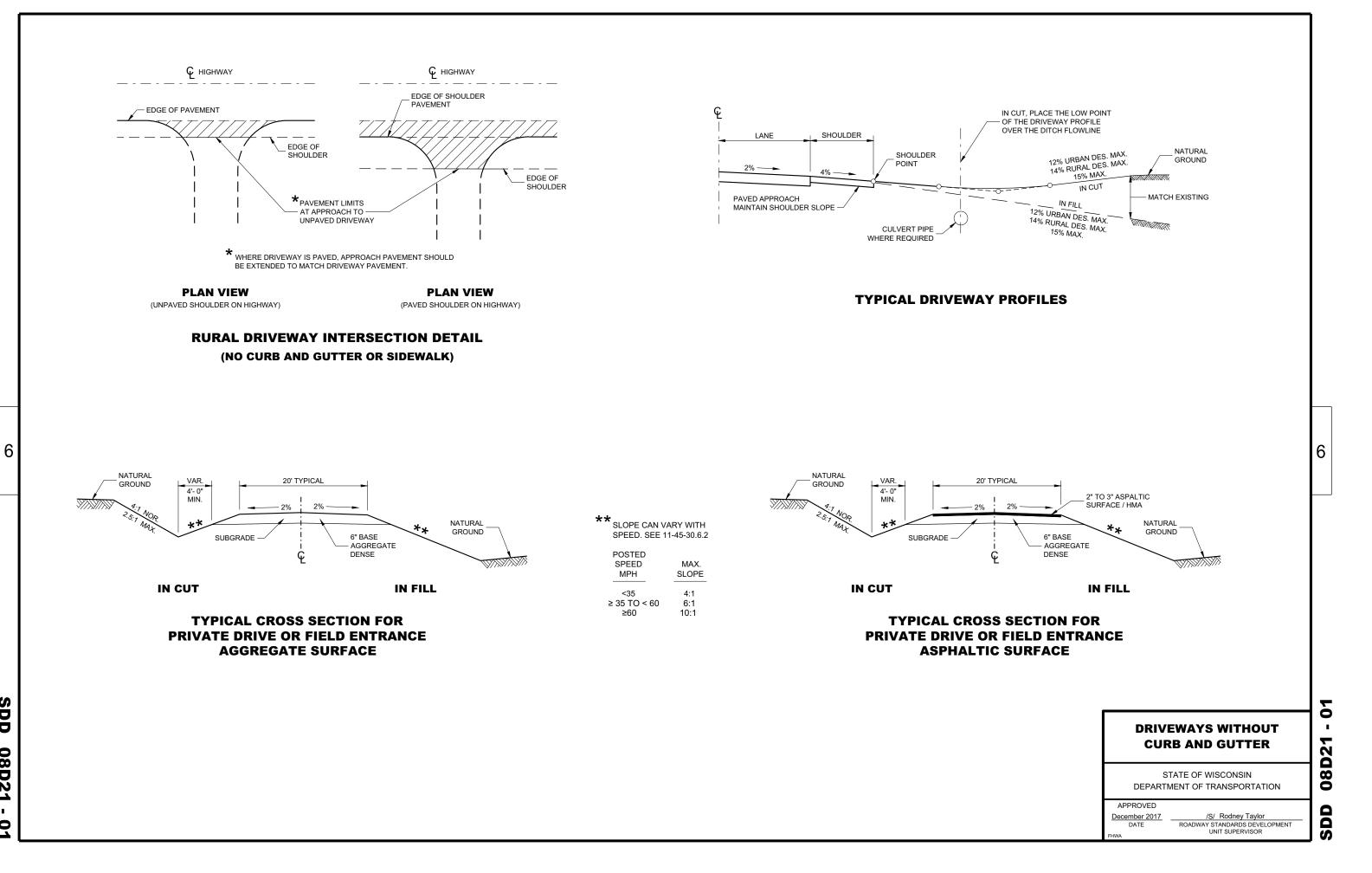
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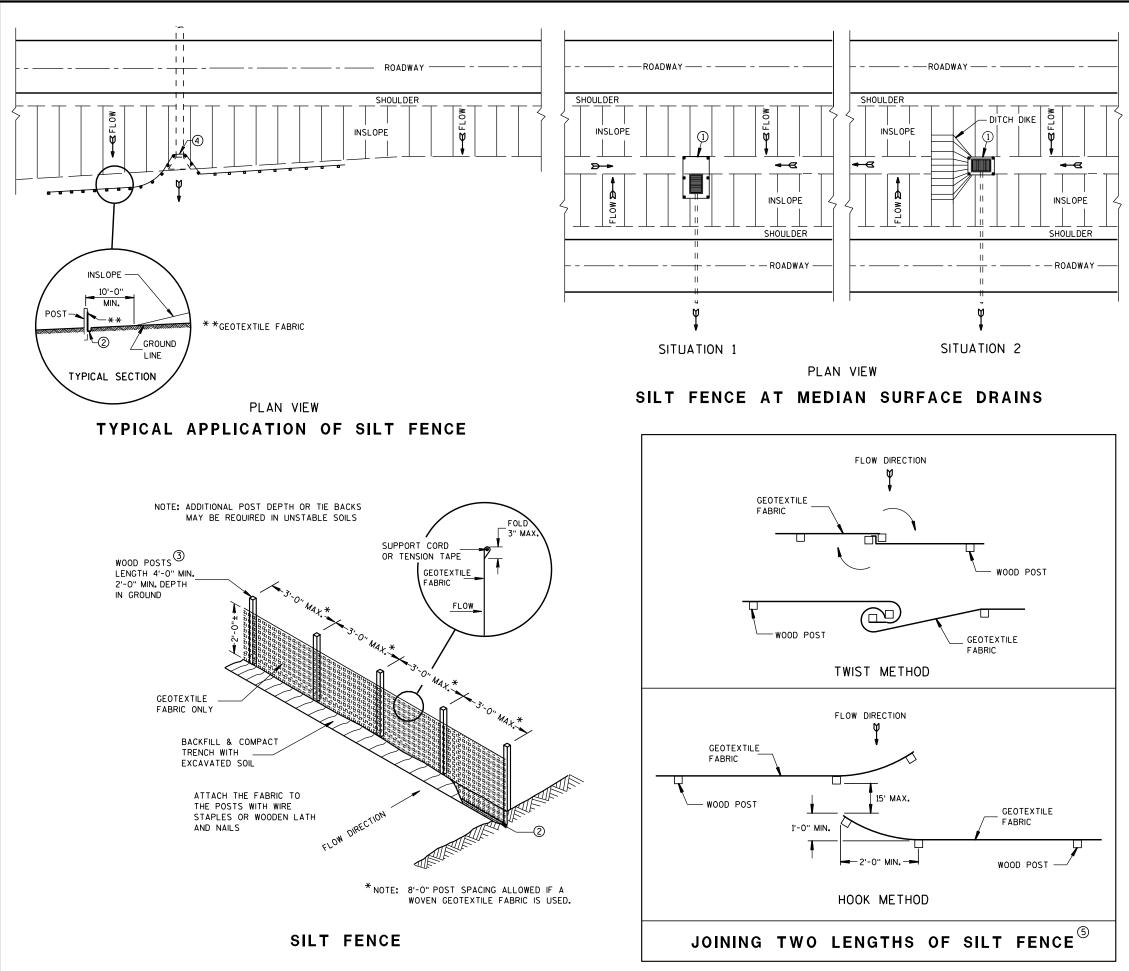
## **DRIVEWAYS WITH CURB AND GUTTER** RETURNS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED 00-00-00 DATE

/S/ <AUTHOR> ROADWAY STANDARDS DEVELOPMENT ENGINEER





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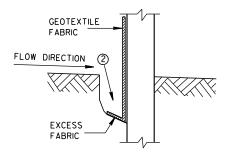
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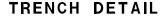
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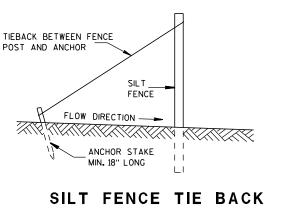
### **GENERAL NOTES**

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

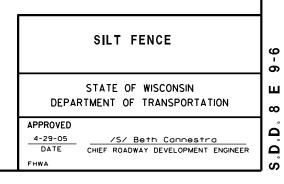
- $\bigcirc$  horizontal brace required with 2" x 4" wooden frame or equivalent at top of posts.
- (2) FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- (3) WOOD POSTS SHALL BE A MINIMUM SIZE OF  $1/_8$ " X  $1/_8$ " OF OAK OR HICKORY.
- (4) SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
- (5) CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.

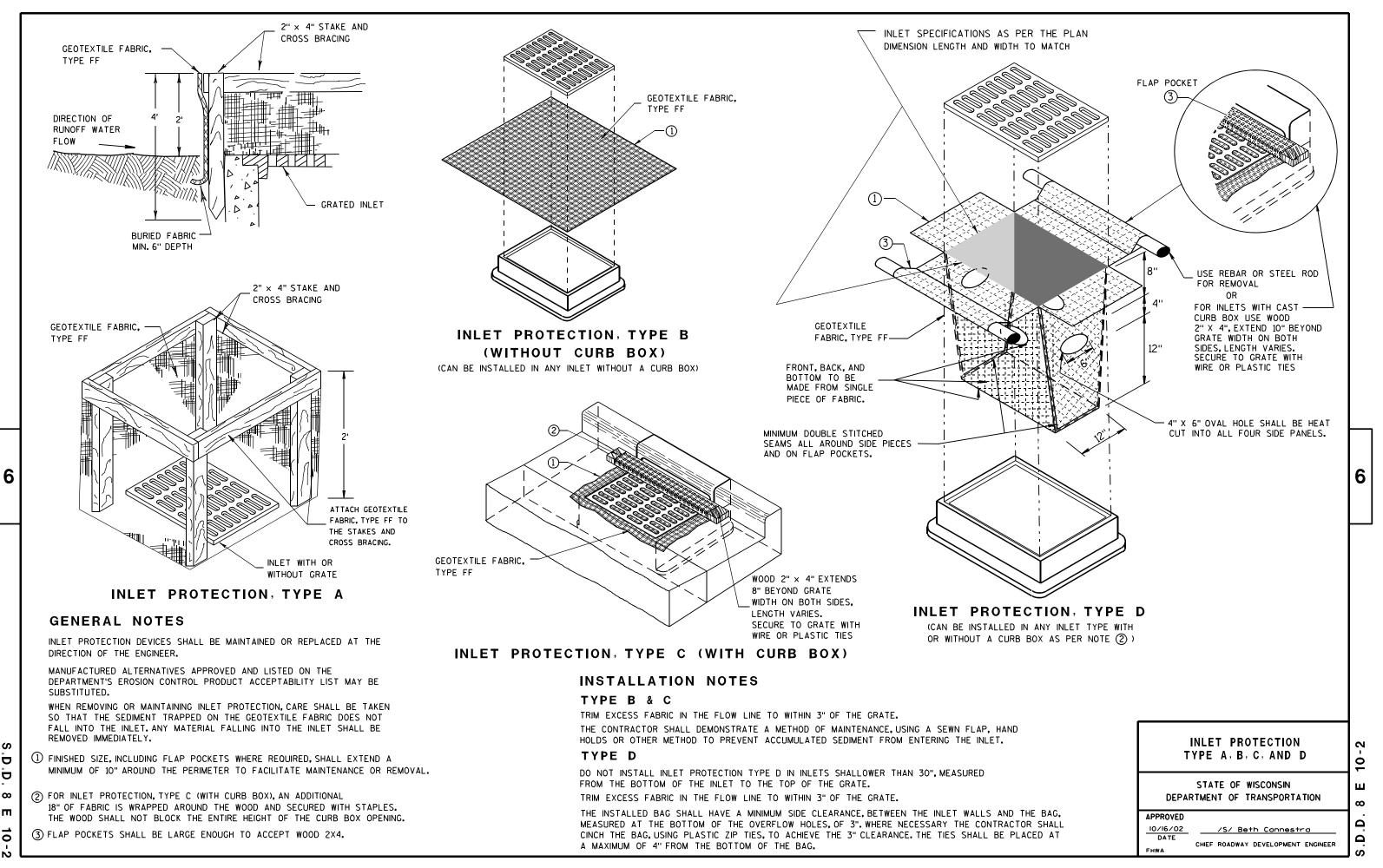




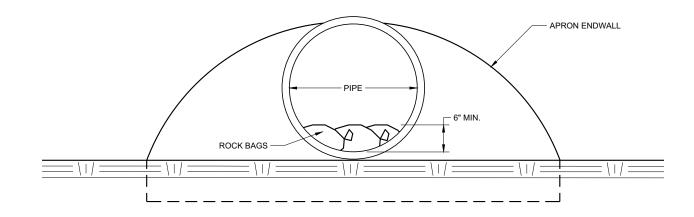


(WHEN REQUIRED BY THE ENGINEER)

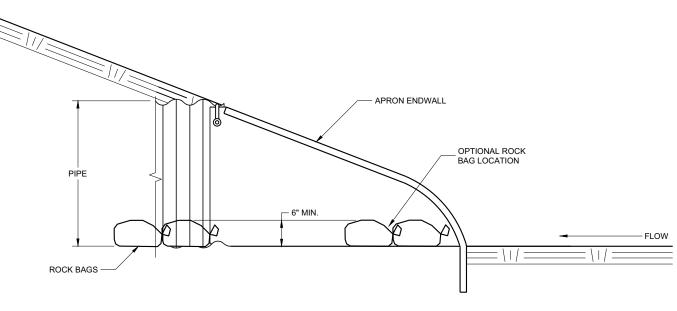




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END VIEW



SIDE VIEW

**CULVERT PIPE CHECK** (INSTALL ON INLET END ONLY)

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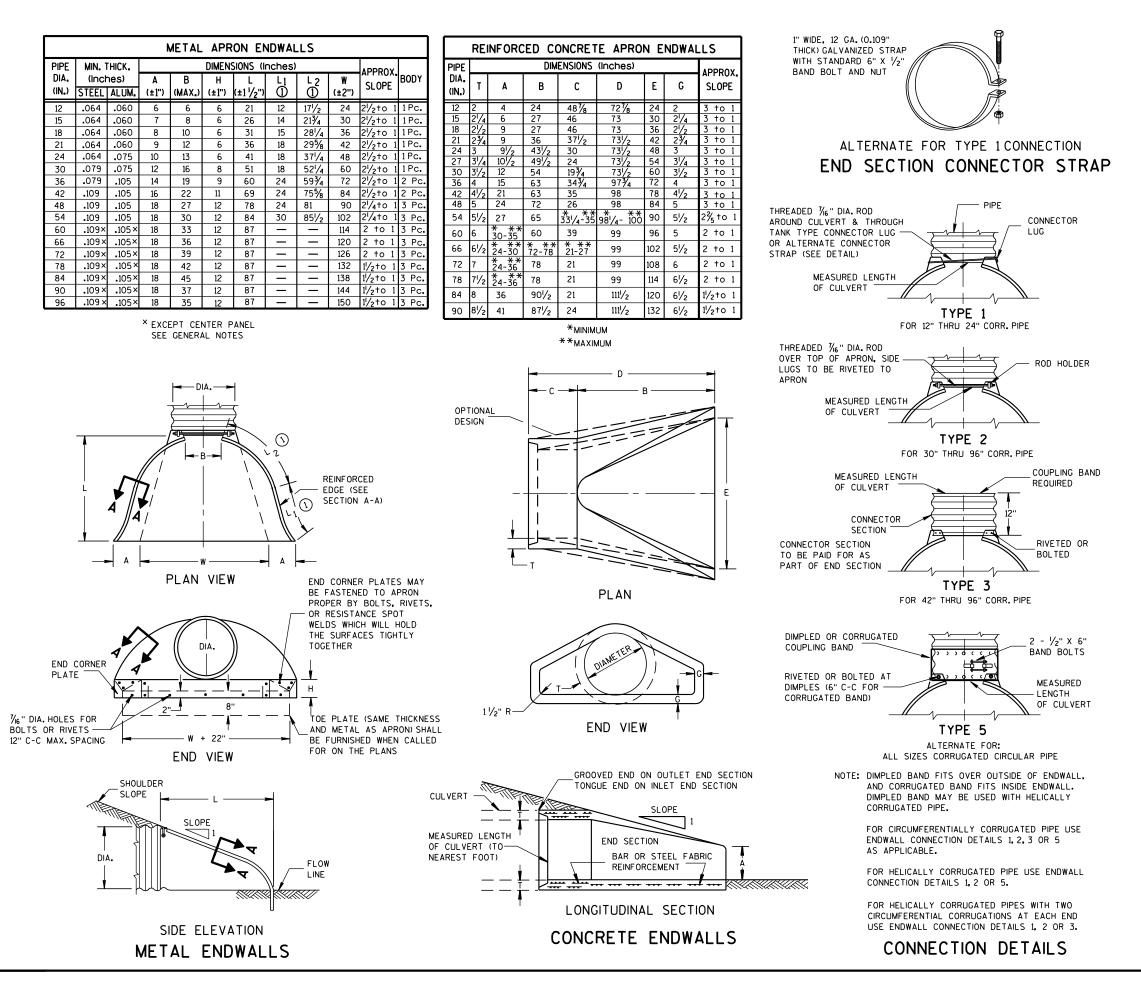
# **CULVERT PIPE CHECK**

### STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED May 2019 DATE

/S/ Daniel Schave EROSION CONTROL ENGINEER

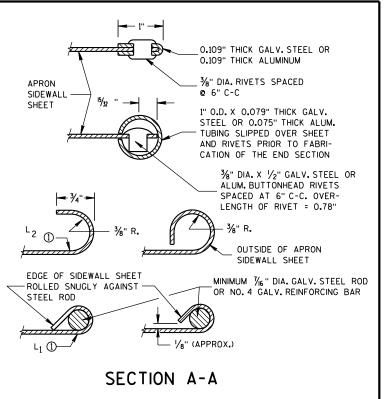
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# GENERAL NOTES

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

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

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

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

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

 $\bigoplus$  for PIPE SIZES UP to 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

### APRON ENDWALLS FOR CULVERT PIPE

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED II/30/94 DATE FHWA

CHIEF ROADWAY DEVELOPMENT ENGINEER

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# **GENERAL NOTES**

METALLIC (STANDARD SPECIFICATION 652.2.2) OR NONMETALLIC (STANDARD SPECIFICATION 652.2.3) CONDUIT SHALL BE FURNISHED AND PLACED AS SHOWN.

AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

THE TRENCH SHALL NOT BE BACKFILLED PRIOR TO INSPECTION OF THE CONDUIT.

ALL METALLIC CONDUIT RACEWAY ENDS SHALL BE REAMED AND THREADED.

ALL METALLIC CONDUIT IN WHICH WIRE OR CABLE IS TO BE INSTALLED SHALL BE BUSHED WITH APPROVED THREADED BUSHINGS BEFORE INSTALLATION OF THE WIRE OR CABLE.

ALL METALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT TO BE INSTALLED SHALL BE CAPPED WITH THREADED PROTECTIVE CAPS, AS APPROVED BY THE ENGINEER.

ALL NONMETALLIC CONDUIT SHALL BE CAPPED OR PLUGGED IMMEDIATELY AFTER INSTALLATION AND SHALL REMAIN CAPPED OR PLUGGED UNTIL WIRE/CABLES ARE INSTALLED.

CAPPED OR PLUGGED.

BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR EMERSION TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT.

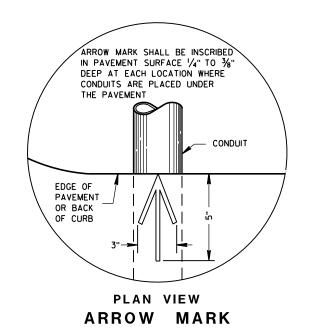
CONDUIT. (SEE NEC 347.5)

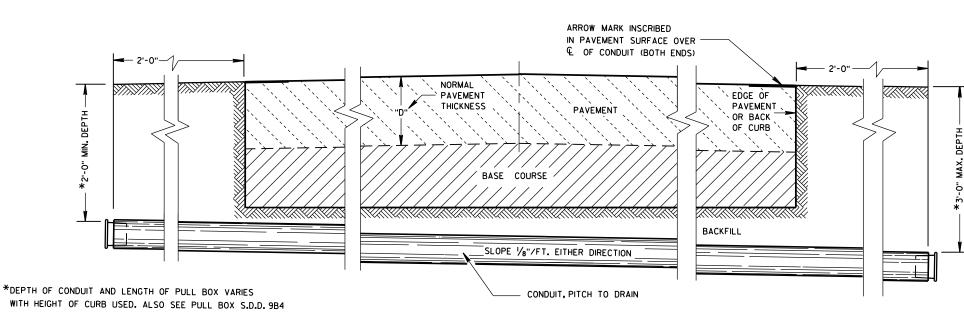
WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY U.L. LISTED ADAPTER FITTINGS SHALL BE USED.

ATTACHED.

CONDUIT RUNS SHALL BE THE SAME SIZE OF CONDUIT FROM ONE END TO THE OTHER (FROM PULL BOX TO PULL BOX-OR-JUNCTION BOX TO JUNCTION BOX-OR-BASE TO BASE, ETC.).

ALL CONDUIT RUNS SHALL BE STRAIGHT (WITHOUT BENDS) FROM PULL BOX TO PULL BOX, PULL BOX TO BASE AND BASE TO BASE AS SHOWN ON THE PLANS.





SIDE ELEVATION DETAIL FOR CONDUIT UNDER PAVED HIGHWAYS

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DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM

NONMETALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN

ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON NONMETALLIC

PRIOR TO CONDUIT ACCEPTANCE, CONDUIT CAPS OR PLUGS SHALL BE REMOVED, AND THE CAPS, PLUGS AND CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND THEN THE CAPS OR PLUGS REIN-STALLED TO ENSURE THAT THE CAPS OR PLUGS CAN BE EASILY REMOVED IN THE FUTURE.

ALL CONDUIT BEING FURNISHED AND INSTALLED SHALL HAVE THE U.L. LABEL FIRMLY

TRACER WIRE SHALL BE INSTALLED AS STATED IN THE STANDARD SPECIFICATION, ITEM 652.3.1.1.

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### CONDUIT

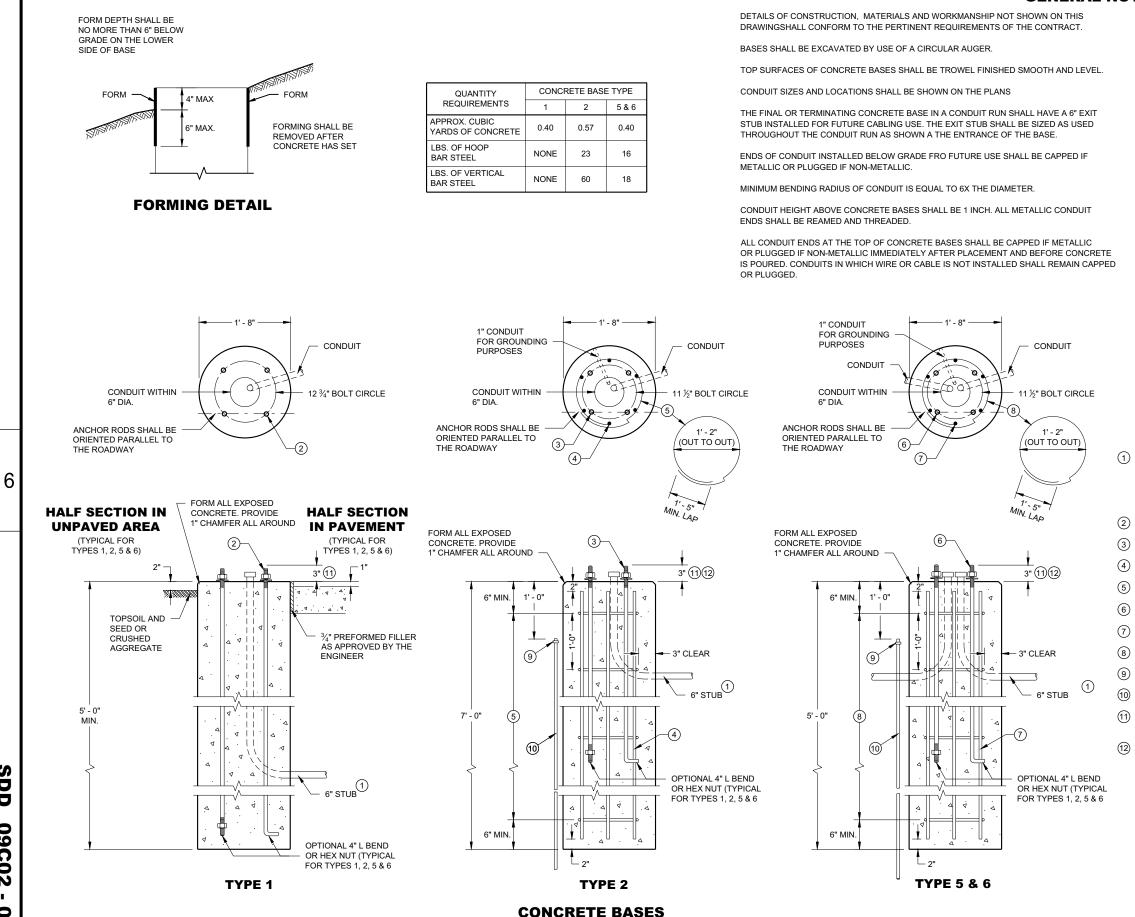
### STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED March, 2017 DATE

/S/ Ahmet Demirbilek STATE ELECTRICAL ENGINEER

FHWA

### **GENERAL NOTES**



SD Ū 09C02 0 Õ

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION

WHEN REQUIRED TO CONNECT NON-METALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE DIRT OR FILL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

A NO. 4 AWG STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD) FOR TYPE 2, TYPE 5 AND TYPE 6 BASES.

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER ALL BASE TYPES THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER

ANCHOR RODS SHALL BE THREADED 12" IN LENGTH ON EACH END OF THE ROD. ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2.1 OF THE STANDARD SPECIFICATIONS.

WASHERS AND LOCK WASHERS ARE REQUIRED ON ALL ANCHOR RODS.

WHEN ANCHOR RODS USING THE ALTERNATE "L" BEND ARE FURNISHED, THE 4 INCH"L" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH. THE "L" BEND SHALL NOT BE THREADED.

ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL

WELDING OF THE ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TIE WIRES SHALL BE USED

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).

THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES EXCEPT WITH WRITTEN APPROVAL OF THE ENGINEER.

(2) (4) 1" DIA. X 3' - 6" ANCHOR RODS.

(4) 1" DIA. X 5' - 0" ANCHOR RODS.

(6) NO. 6 X 6' - 8" BAR STEEL REINFORCEMENT.

(7) NO. 4 X 5' - 1" BAR STEEL REINFORCEMENT @ 1' - 0" C - C.

(4) 1" DIA. X 3' - 6" ANCHOR RODS.

(6) NO. 4 X 4' - 8" BAR STEEL REINFORCEMENT.

(8) (5) NO. 4 X 5' - 1" BAR STELL REINFORCEMENT @ 1' - 0" C -C.

EXOTHERMIC CONNECTION TO EUIPMENT GROUNDING CONDUCTOR

(10) 5/8" DIA. X 8' -0" COPPERCLAD EQUIPMENT GROUNDING ELECTRODE REQUIRED

ANY ANCHOR ROD PROJECTION SHORTER THAN 2 3/7 OR LONGER THAN 3 1/7 SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

(12) FOR NON - BREAKAWAY INSTALLATIONS,  $4\frac{1}{2}$ " ± ANCHOR ROD PROJECTION WITH THE USE OF LEVELING NUTS. RODENT SCREEN REQUIRED.

### **CONCRETE BASES TYPES 1, 2, 5, & 6**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

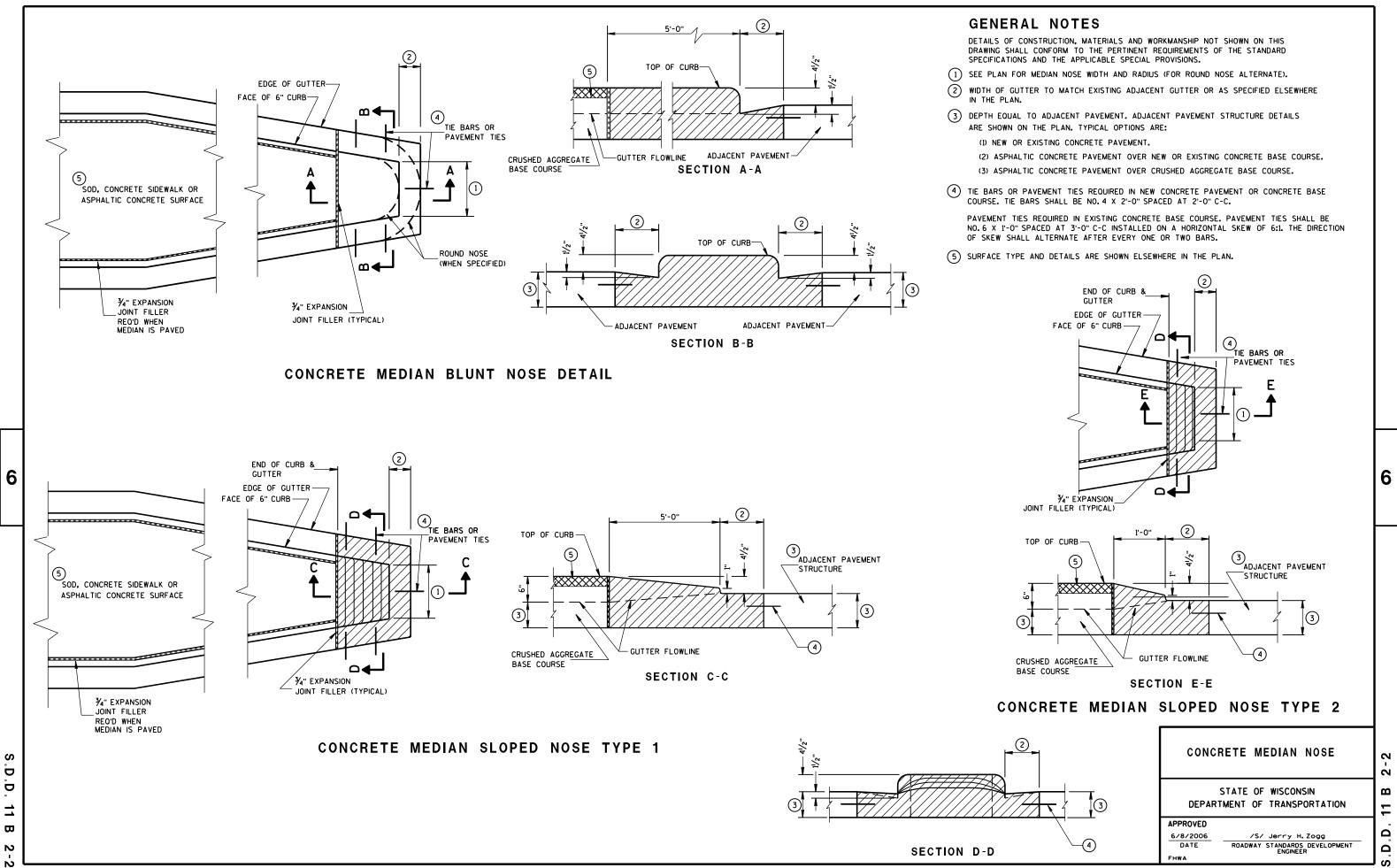
APPROVED May 2019 DATE

/S/ Ahmet Demirbile STATE ELECTRICAL ENGINEER 6

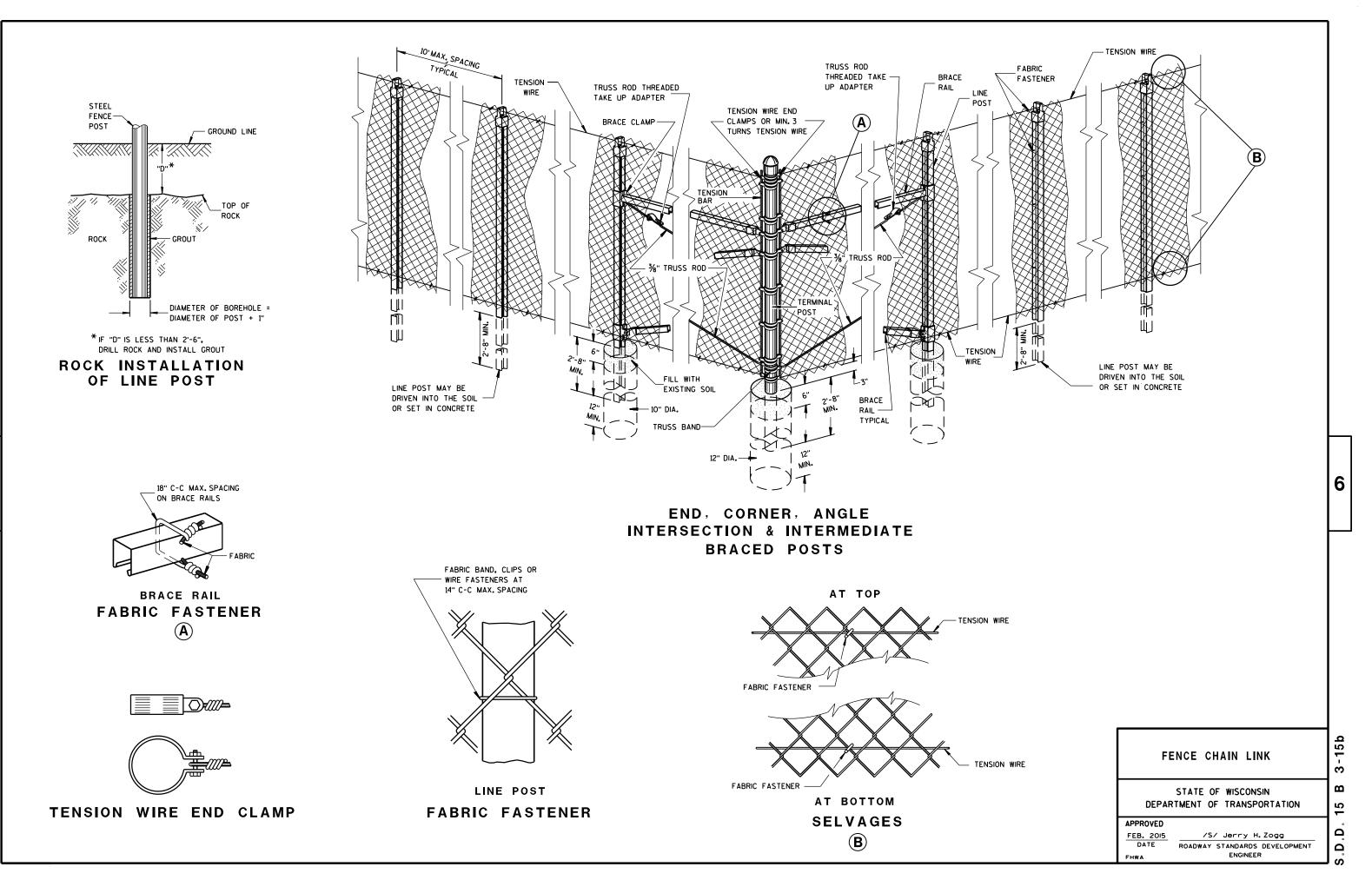
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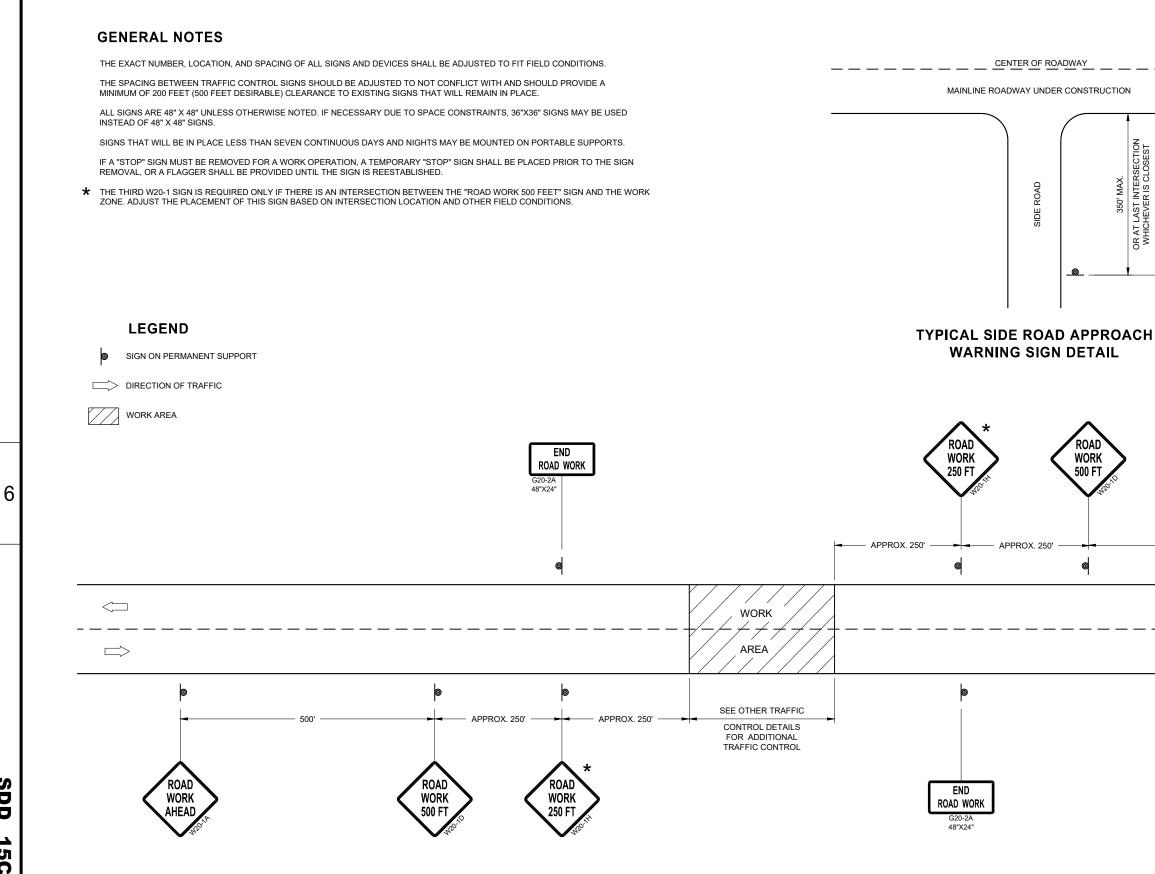


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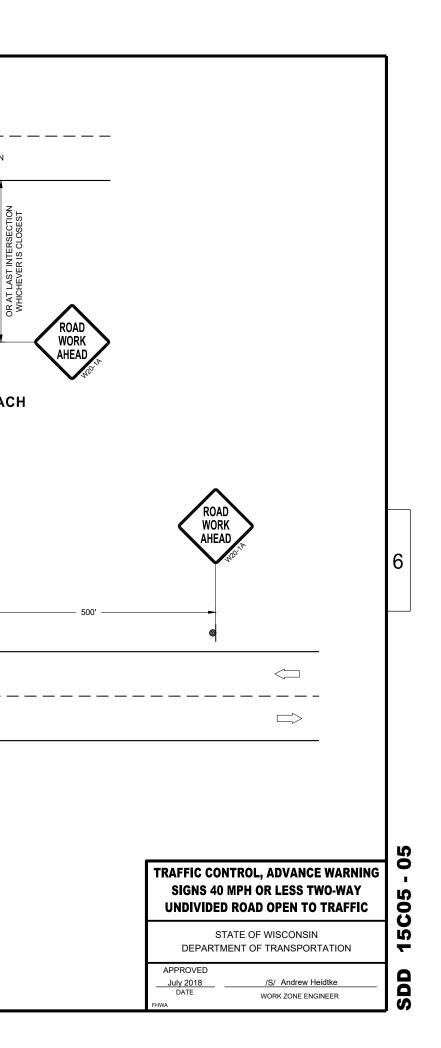


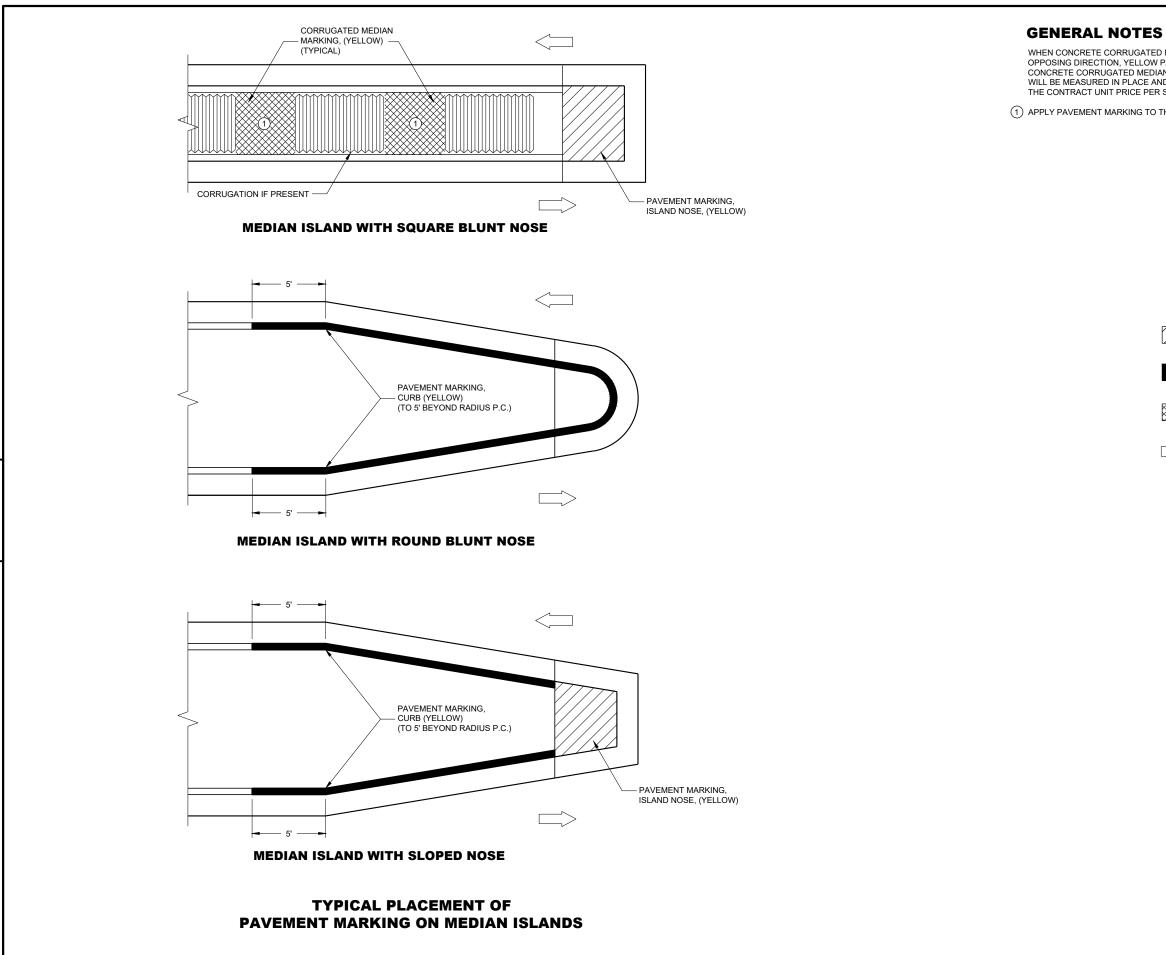
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-15b



TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40MPH OR LESS





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WHEN CONCRETE CORRUGATED MEDIAN IS CONSTRUCTED TO SEPARATE TRAFFIC OPERATING IN THE OPPOSING DIRECTION, YELLOW PAVEMENT MARKING SHALL BE APPLIED TO THE FLAT PORTION OF THE CONCRETE CORRUGATED MEDIAN. THE ITEM OF PAVEMENT MARKING, CONCRETE CORRUGATED MEDIAN, WILL BE MEASURED IN PLACE AND ACCEPTED IN ACCORDANCE WITH THE CONTRACT AND PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT.

(1) APPLY PAVEMENT MARKING TO THE FLAT PORTION OF CORRUGATED MEDIAN.



ISLAND NOSE MARKING

CURB MARKING



CORRUGATED MEDIAN MARKING



DIRECTION OF TRAVEL

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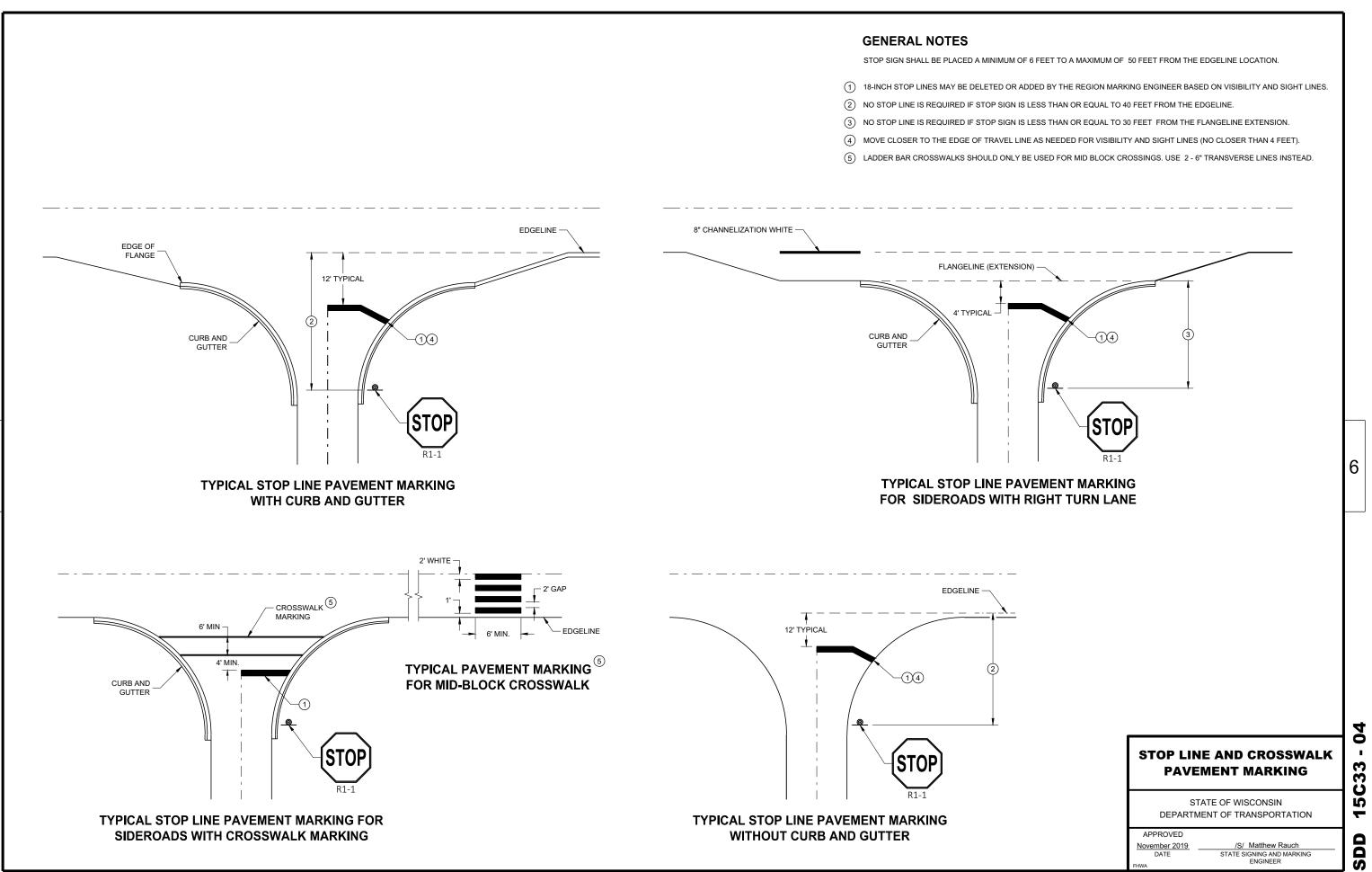
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### **PAVEMENT MARKINGS,** MEDIAN ISLAND NOSE

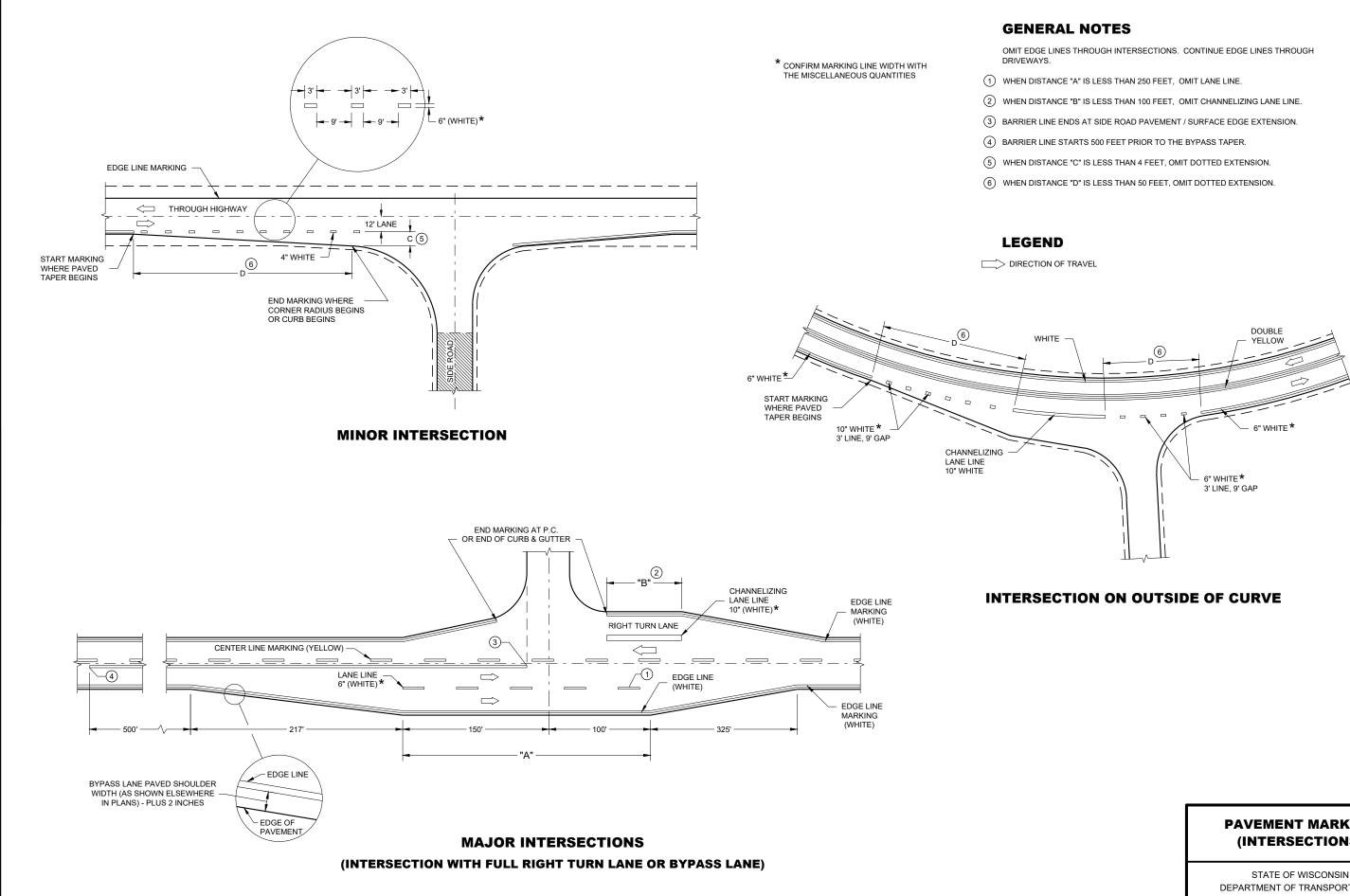
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED May 2023 DATE

/S/ Jeannie Silver STATE SIGNING AND MARKING ENGINEER



SDD 15C33 - 04



SDD 15C35-06a

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### **PAVEMENT MARKING** (INTERSECTIONS)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

### **GENERAL NOTES**

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

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

THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE.

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

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

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

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING LINE IF LANE CLOSURE IS TO BE IN PLACE 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

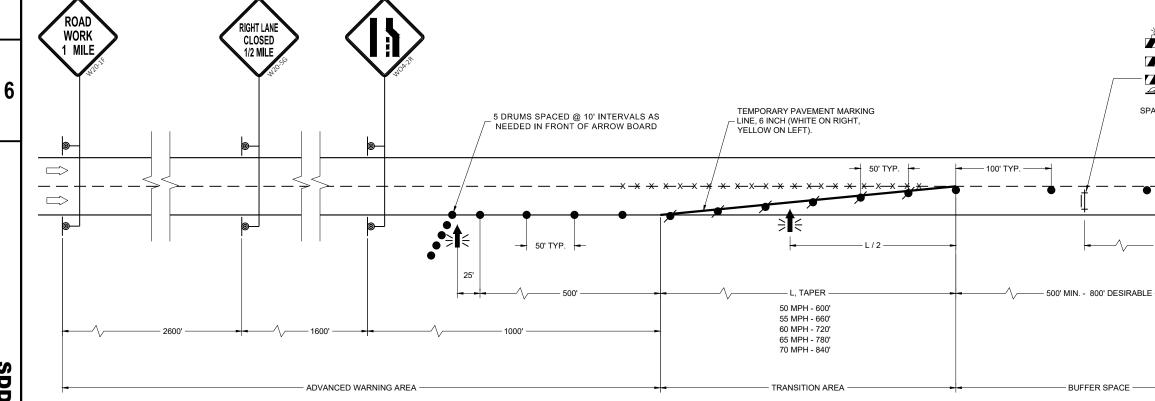
ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP OR INTERSECTION. THE LANE CLOSURE MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE ONE HALF THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER

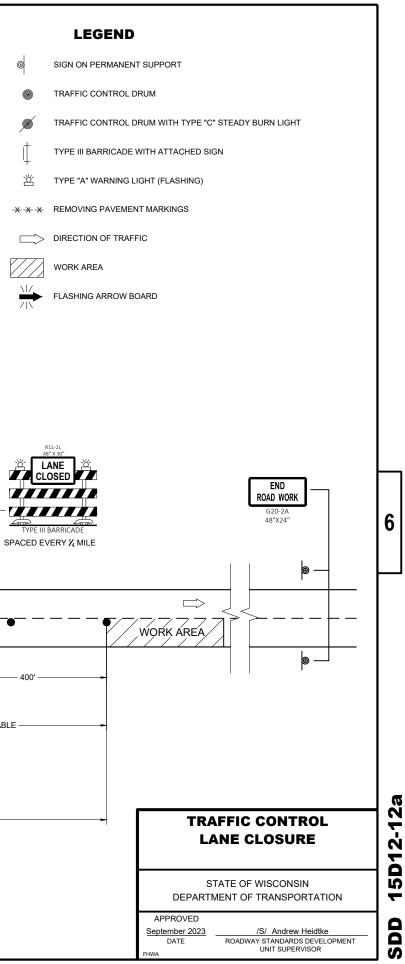
CONSIDER ROADWAY GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS.

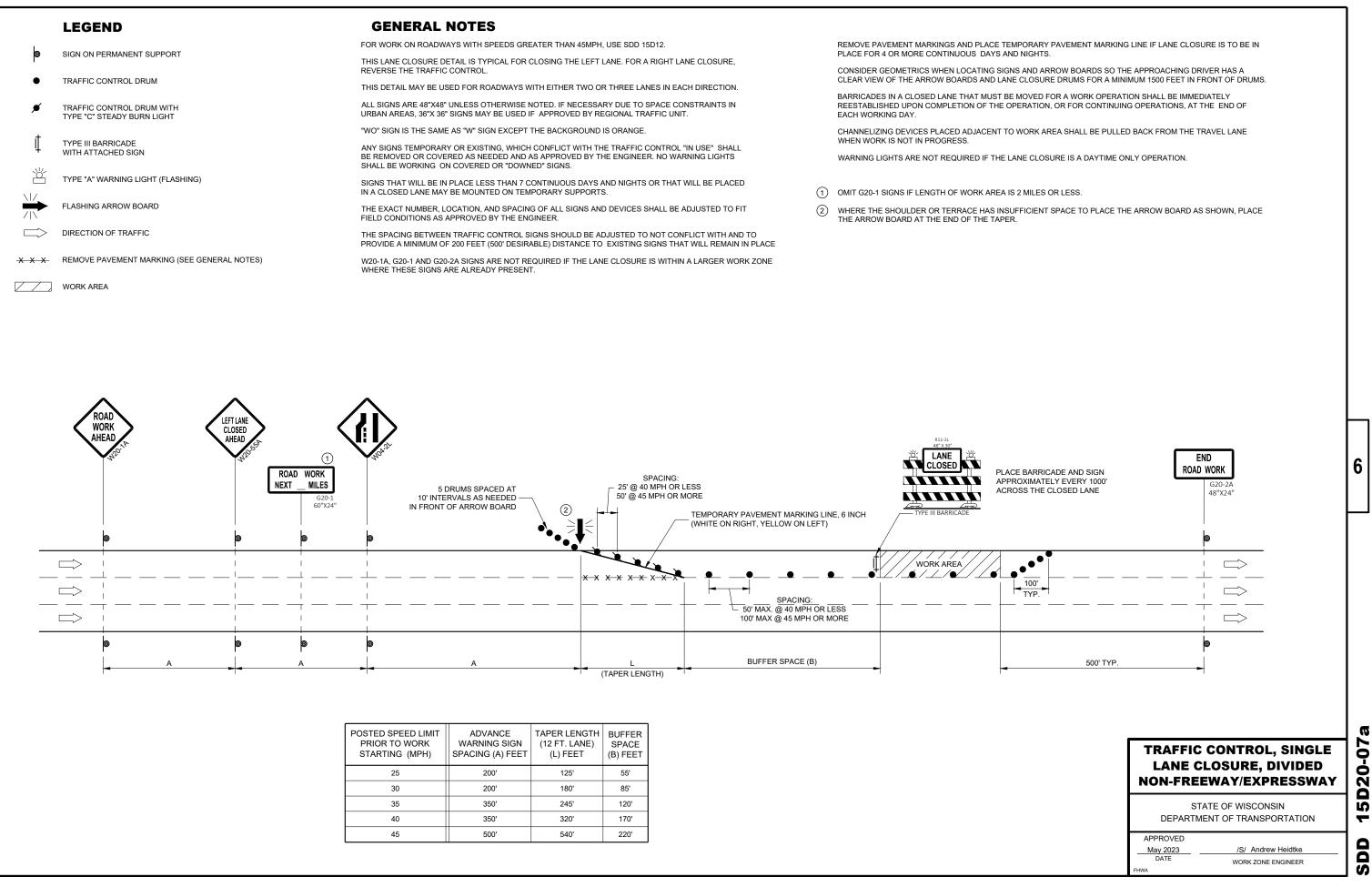


SDD

15D12-12a

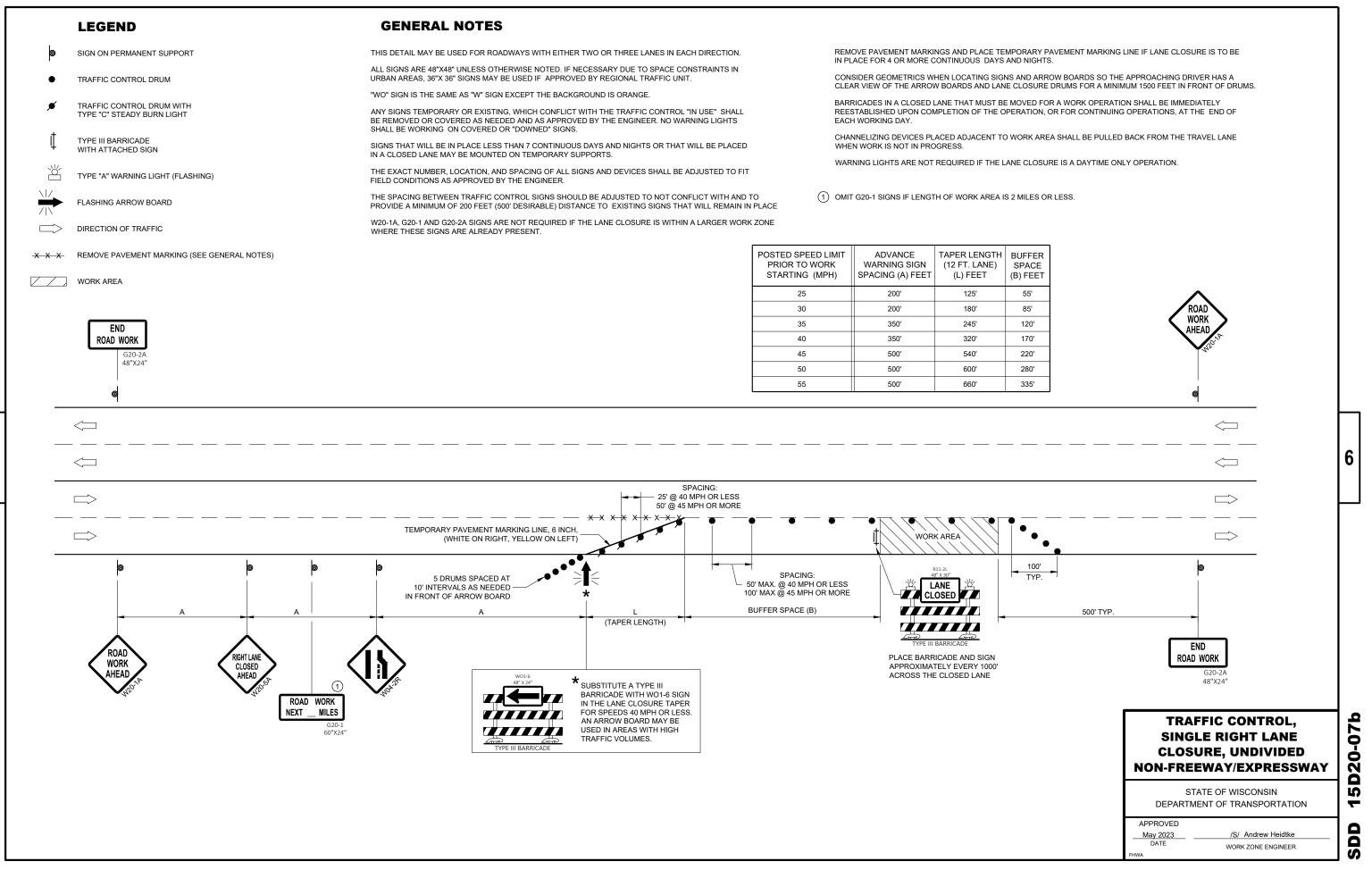




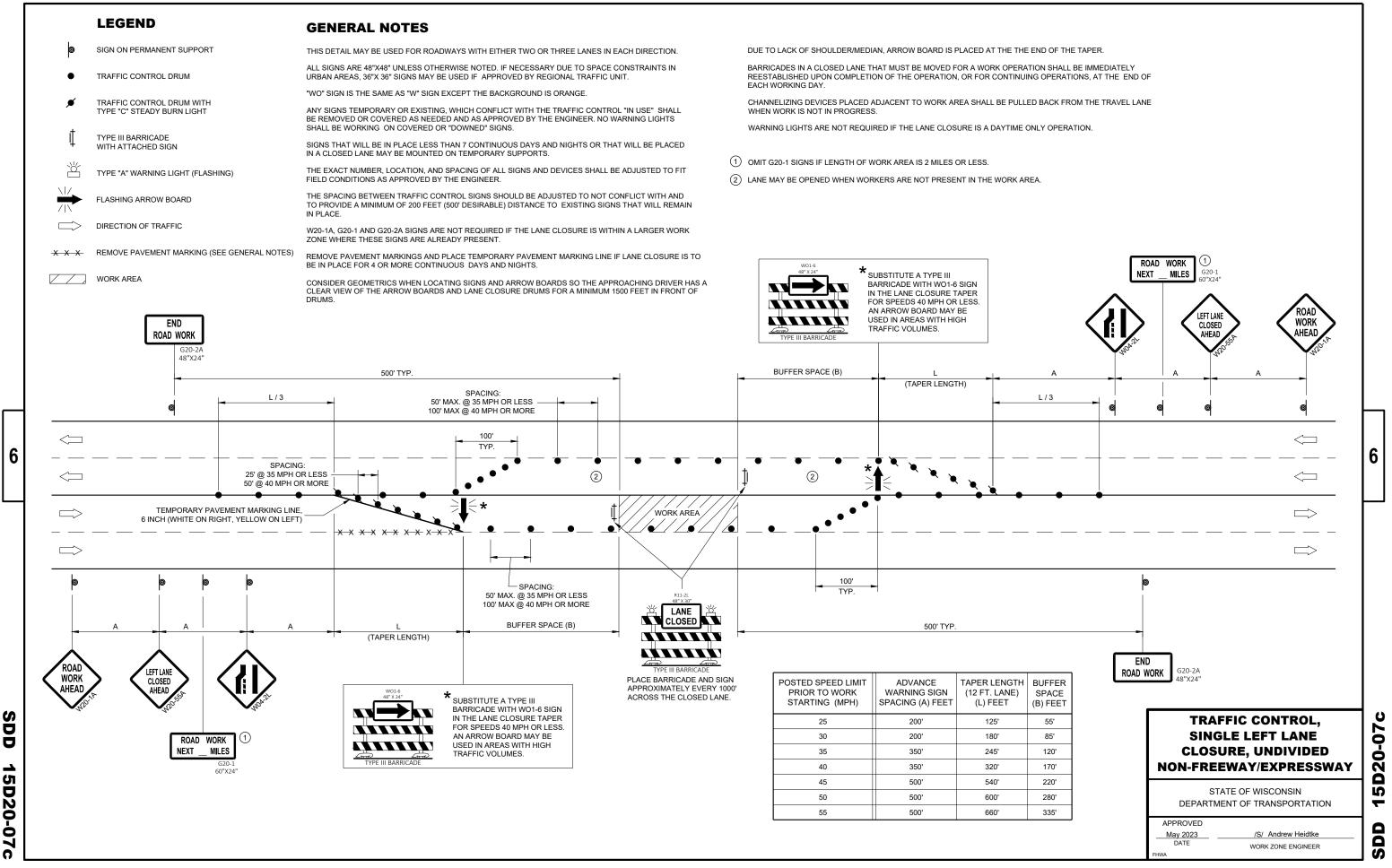


POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	TAPER LENGTH (12 FT. LANE) (L) FEET	BUFFER SPACE (B) FEET
25	200'	125'	55'
30	200'	180'	85'
35	350'	245'	120'
40	350'	320'	170'
45	500'	540'	220'

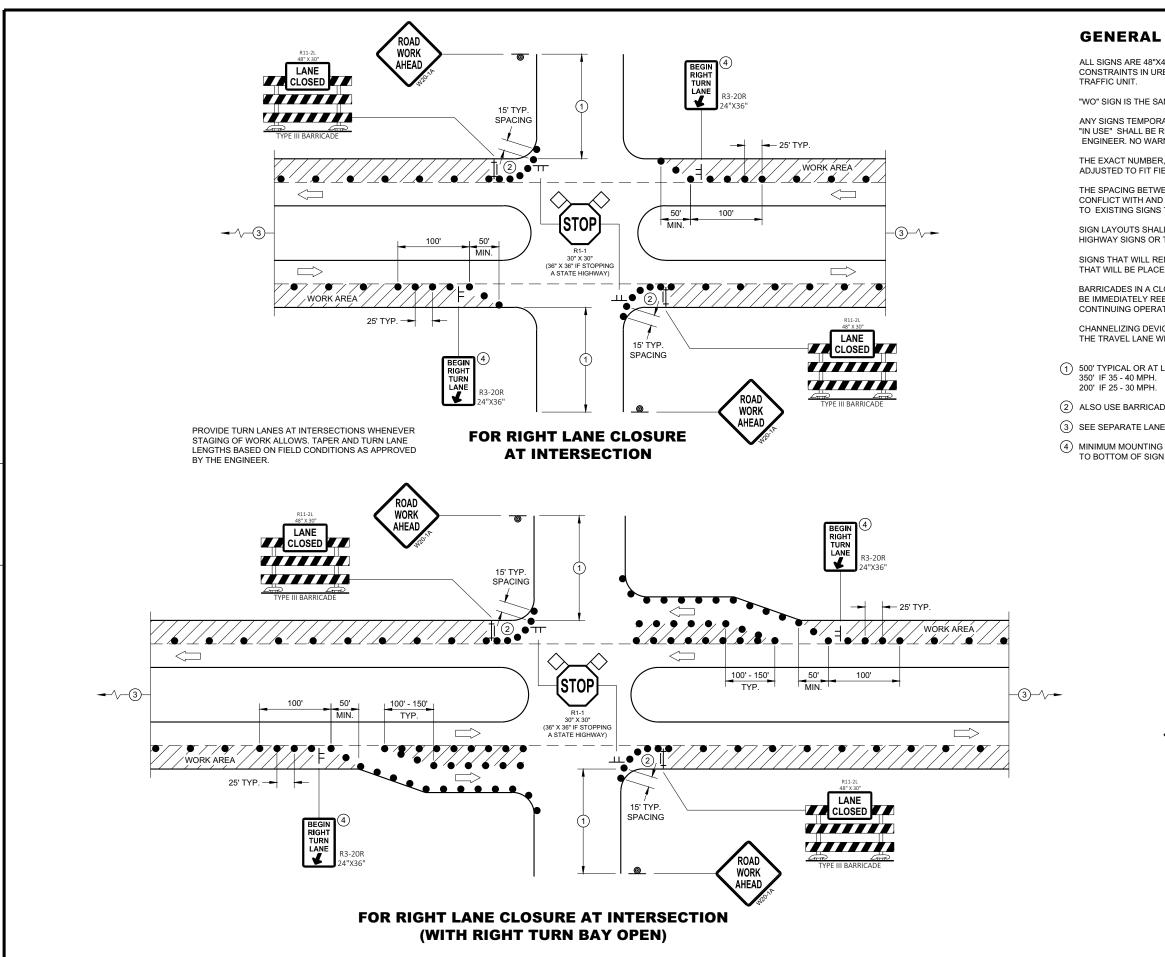
SDD **15D20-0** -Q



SDD 15D20-07b



**15D20-0** N **n** 



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# **GENERAL NOTES**

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" MAY BE USED IF APPROVED BY THE DISTRICT

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

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

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

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

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

SIGNS THAT WILL REMAIN IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE MAY BE MOUNTED ON PORTABLE SUPPORTS.

BARRICADES IN A CLOSED LANE 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.

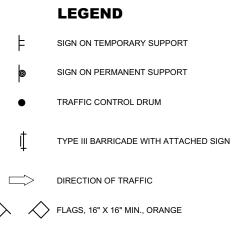
CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

(1) 500' TYPICAL OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.

(2) ALSO USE BARRICADE AND 15 FOOT TYPICAL DRUM SPACING AT COMMERCIAL DRIVEWAYS

(3) SEE SEPARATE LANE CLOSURE DETAIL FOR ADDITIONAL TRAFFIC CONTROL.

(4) MINIMUM MOUNTING HEIGHT OF 5 FEET FROM EDGE OF PAVEMENT (AT EDGE LINE LOCATION)



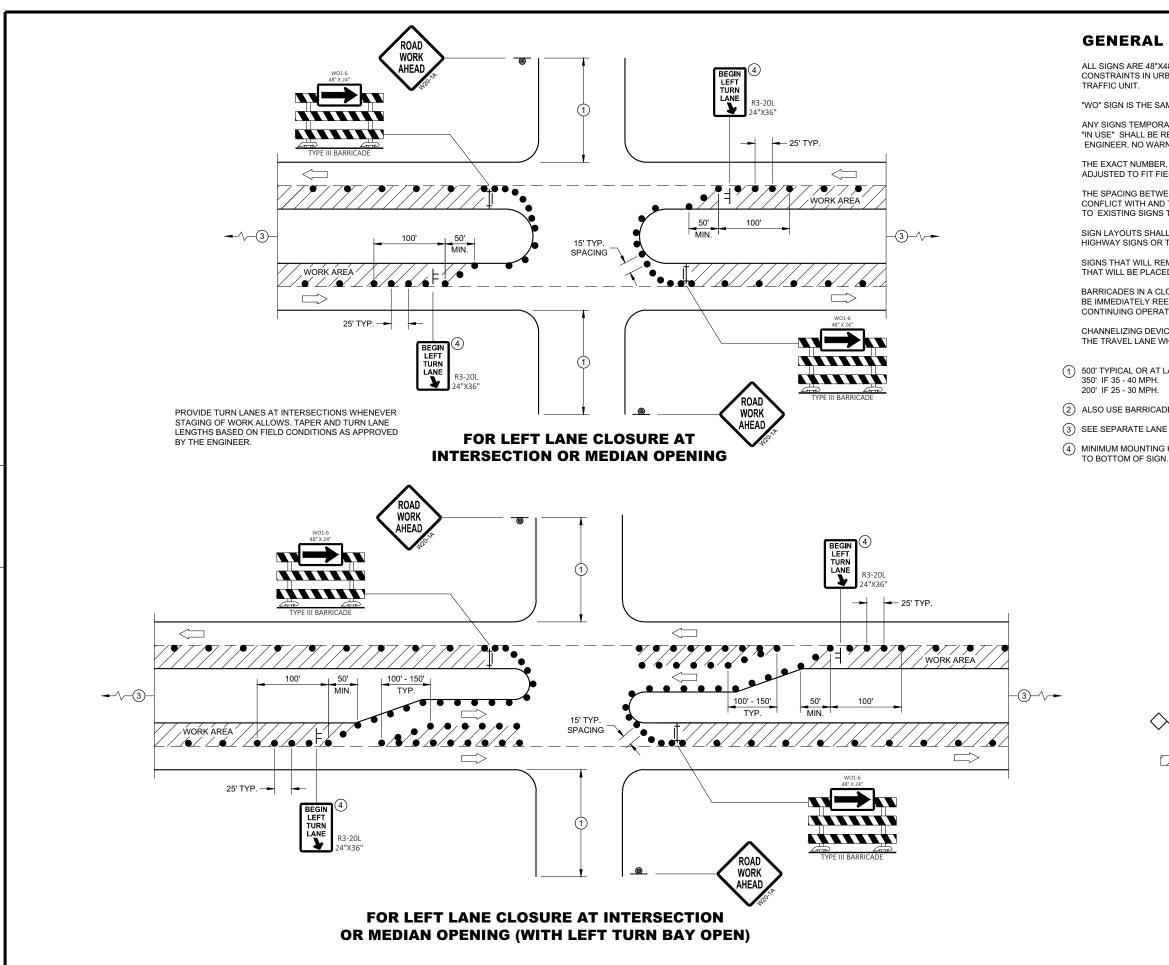
WORK AREA  $\Box$ 

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### **TRAFFIC CONTROL**, INTERSECTION WITHIN SINGLE **RIGHT LANE CLOSURE**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION



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# **GENERAL NOTES**

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" MAY BE USED IF APPROVED BY THE DISTRICT

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BARRICADES IN A CLOSED LANE 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.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

1 500' TYPICAL OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.

(2) ALSO USE BARRICADE AND 15 FOOT TYPICAL DRUM SPACING AT COMMERCIAL DRIVEWAYS

(3) SEE SEPARATE LANE CLOSURE DETAIL FOR ADDITIONAL TRAFFIC CONTROL.

(4) MINIMUM MOUNTING HEIGHT OF 5 FEET FROM EDGE OF PAVEMENT (AT EDGE LINE LOCATION)



LEGEND

TYPE III BARRICADE WITH ATTACHED SIGN



DIRECTION OF TRAFFIC



FLAGS, 16" X 16" MIN., ORANGE



### **TRAFFIC CONTROL**, INTERSECTION WITHIN SINGLE LEFT LANE CLOSURE

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

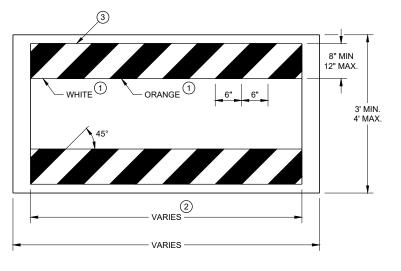
APPROVED August 2020 DATE

/S/ Andrew Heidtke WORK ZONE ENGINEER 6

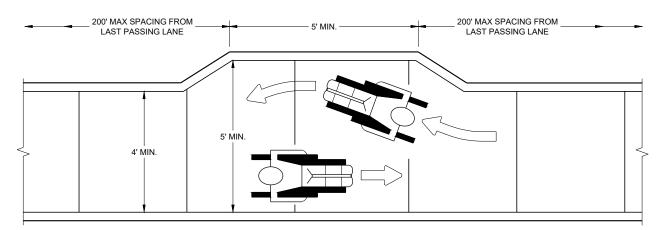
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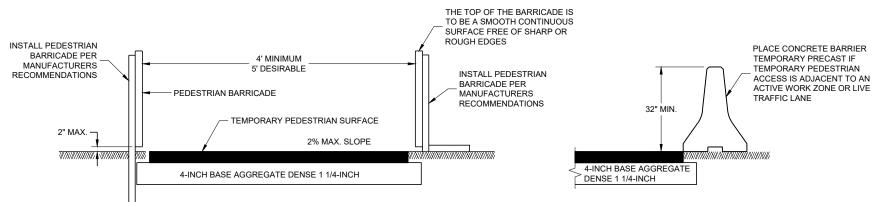








NARROW SIDEWALK PASSING DETAIL



**TEMPORARY PEDESTRIAN ACCESS** 



BARRICADE DEVICE SELECTED FROM APPROVED PRODUCT LIST

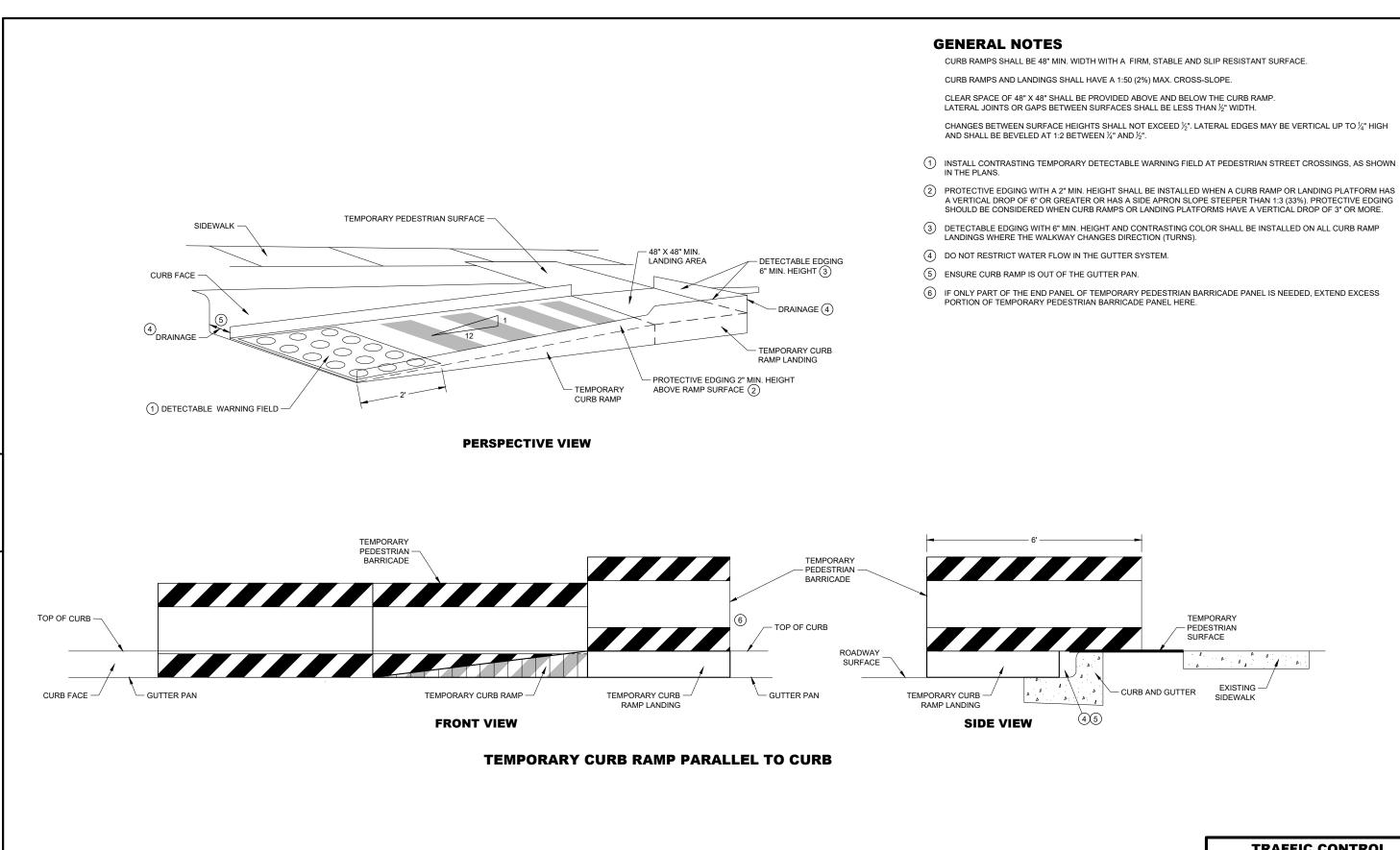
- 1 REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
- (2) SHEETING REQUIRED ON MORE THAN 50% OF BARRICADE WIDTH.
- (3) PLACE SHEETING ON BOTH SIDES OF THE BARRICADE.
- ★ USE THIS DETAIL FOR SHEETING PLACEMENT REFERENCE.

# TEMPORARY PEDESTRIAN BARRICADE\*

# **TRAFFIC CONTROL**, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 6

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# **TRAFFIC CONTROL**, PEDESTRIAN ACCOMMODATION

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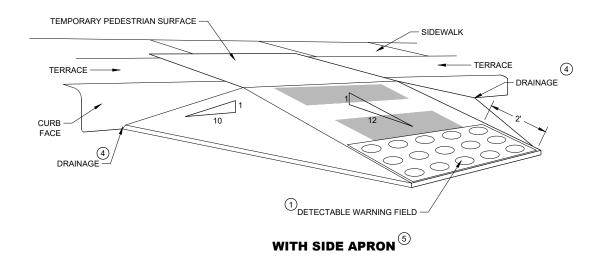
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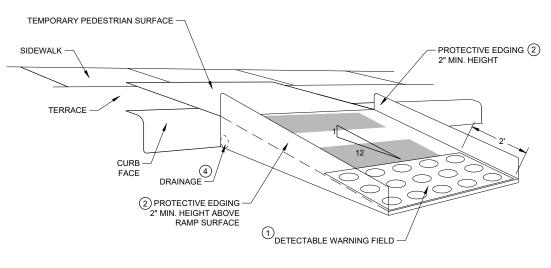
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

### **GENERAL NOTES**

- CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX. CROSS-SLOPE.

- AND SHALL BE BEVELED AT 1:2 BETWEEN 1/4" AND 1/2".
- THE PLANS
- LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).
- (4) DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.
- (5) CAN ONLY BE USED FOR RAMPS WITH 6" OR LESS OF VERTICAL CHANGE.





WITH PROTECTIVE EDGE

### **TEMPORARY CURB RAMP PERPENDICULAR TO CURB**

CURB RAMPS SHALL BE 48" MINIMUM WIDTH WITH A FIRM, STABLE AND SLIP RESISTANT SURFACE.

ALTERNATE SIDEWALK WORK BETWEEN LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.

CLEAR SPACE OF 48" X 48" SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.

LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN  $\ensuremath{\frac{1}{2}}$  " width.

CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED  $\frac{1}{2}$ ". LATERAL EDGES MAY BE VERTICAL UP TO  $\frac{1}{4}$ " HIGH

(1) INSTALL CONTRASTING TEMPORARY DETECTABLE WARNING FIELD AT PEDESTRIAN STREET CROSSINGS, AS SHOWN IN

(2) PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.

(3) DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP

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### **TRAFFIC CONTROL**, **PEDESTRIAN ACCOMMODATION**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

	LEGEND		GEN
þ	SIGN ON TEMPORARY SUPPORT		TYPICAL TEMPOR
	WORK AREA		SIGN LAYOUTS SI
			WHERE TEMPORA THE BARRICADE A
•••••	UNDER PEDESTRIAN TRAFFIC		SIGNS THAT REM. MOUNTED ON PO
	TEMPORARY PEDESTRIAN SURFACE		MOUNTED ON PO
	TEMPORARY PEDESTRIAN BARRICADE		① USE TEMPORARY OR FOR ADDITION
	OPTIONAL TEMPORARY PEDESTRIAN BARRICADE		(2) IF TEMPORARY PI PORTION OF EXC
$\square$	DIRECTION OF TRAFFIC		
			(3) MOUNTING HEIG
		3 M4-60L 3 07X24 3	

SIDEWALK DIVERSION SINGLE SIDE

# SENERAL NOTES

IPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG.

S SHALL BE IN ACCORDANCE WITH THE WISCONSIN STANDARD SIGN PLATES.

PORARY BARRICADE RUNS PARALLEL ALONG SIDEWALK, PLACE THE FACE OF ADE AT THE EDGE OF THE SIDEWALK.

REMAIN IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE I PORTABLE SUPPORTS.

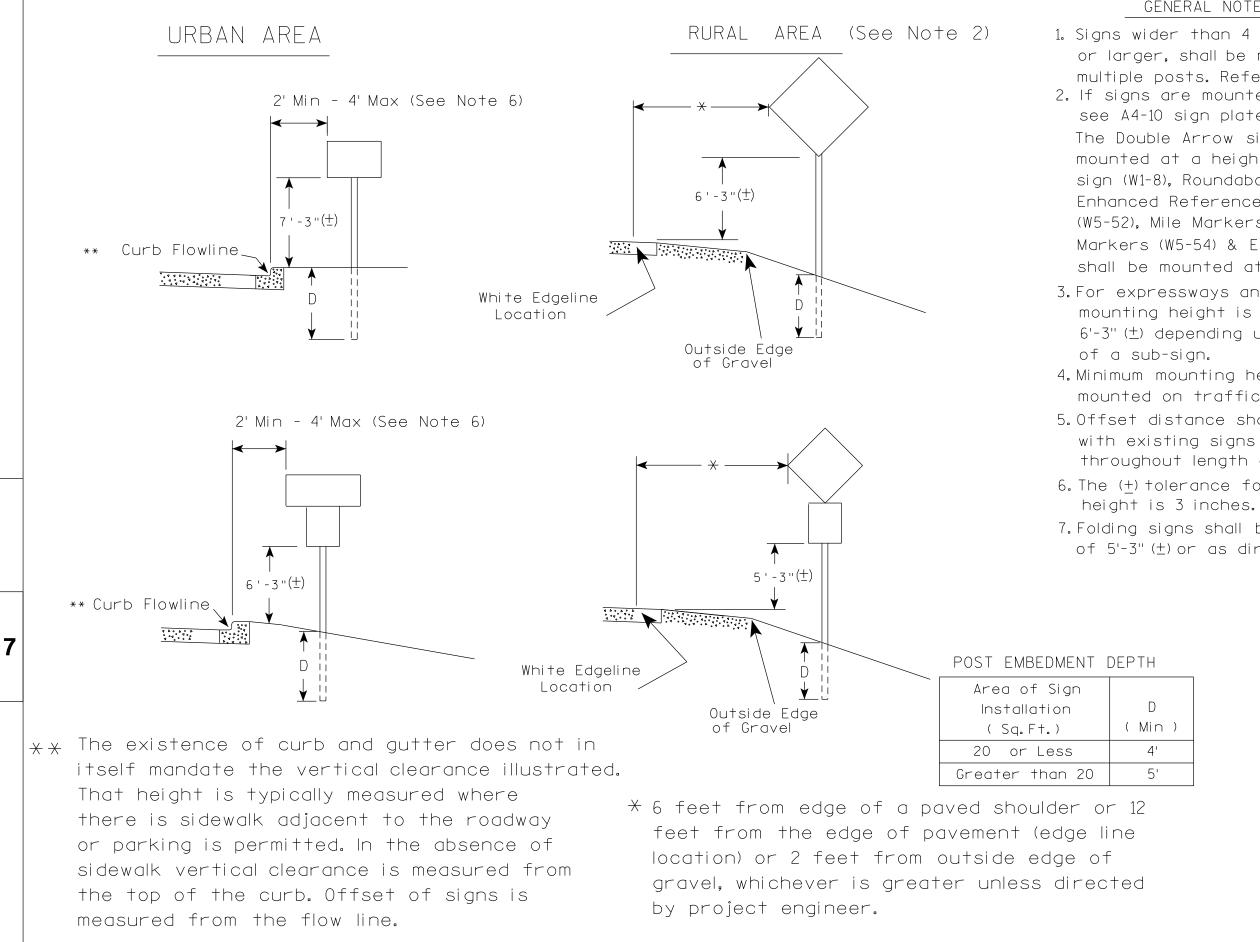
ARY PEDESTRIAN BARRICADE TO SEPARATE PEDESTRIANS FROM DROP OFFS TIONAL PEDESTRIAN CHANNELIZATION.

RY PEDESTRIAN BARRICADE PANEL IS WIDER THAN THE SIDEWALK WIDTH, THE EXCESS PANEL SHOULD EXTEND INTO THE TERRACE.

EIGHT OF 5 FEET FROM THE SURFACE TO THE BOTTOM OF SIGN.

### TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

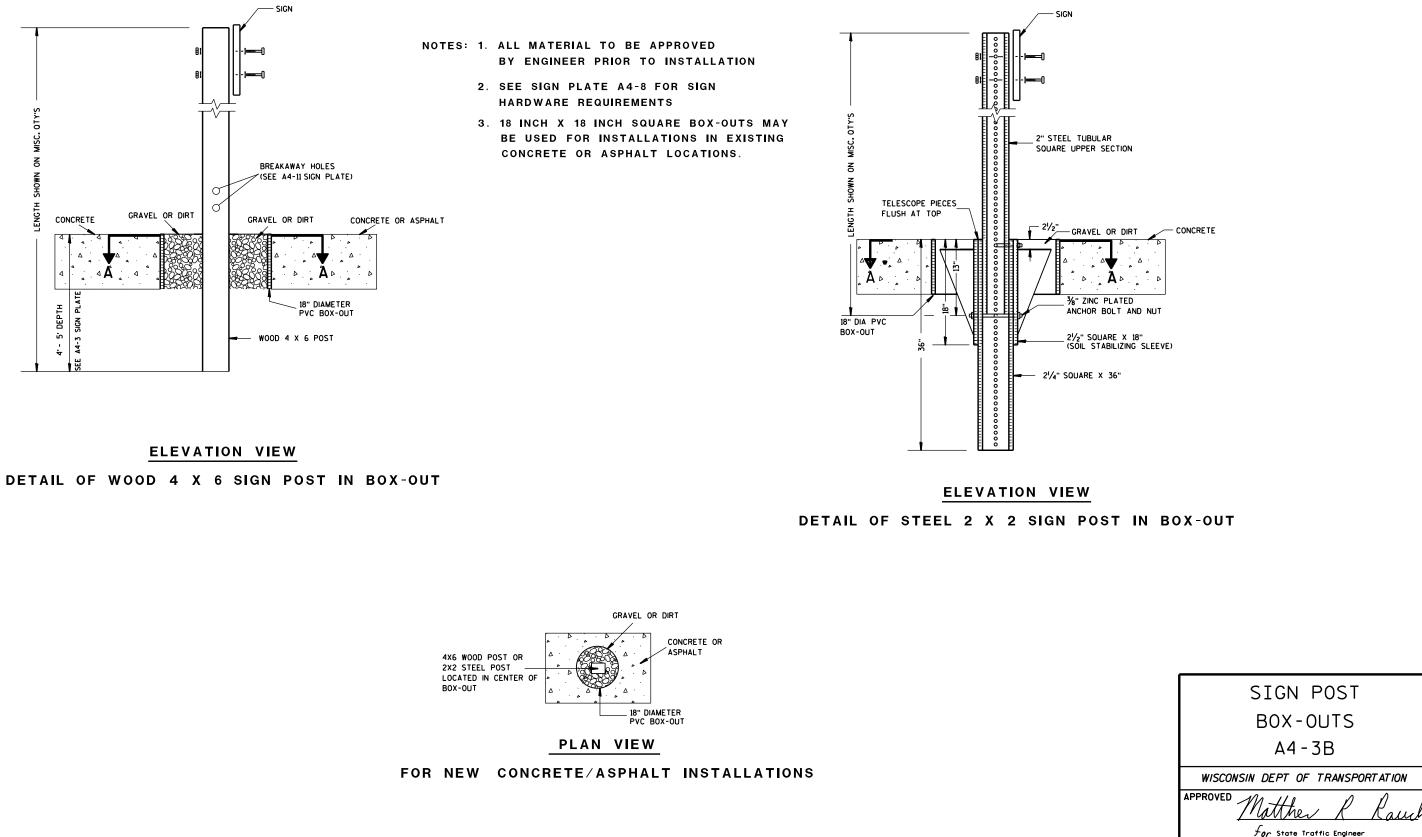


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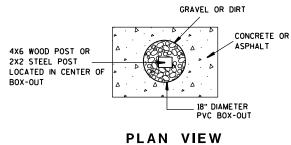
### GENERAL NOTES

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 sian plate. The Double Arrow sign (W12-1D) shall be mounted at a height of  $2'-3''(\pm)$ . 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'' (+). 3. For expressways and freeways, mounting height is 7'- 3" ( $\pm$ ) or  $6'-3''(\pm)$  depending upon existence 4. Minimum mounting height for signs mounted on traffic signal poles is 5' - 3'' (+). 5. Offset distance shall be consistent with existing signs or consistent throughout length of project. 6. The (+) tolerance for mounting 7. Folding signs shall be mounted at a height of 5'-3"  $(\pm)$  or as directd by the Engineer.

)	
	TYPICAL INSTALLATION
	OF PERMANENT TYPE II
	SIGNS ON SINGLE POSTS
	WISCONSIN DEPT OF TRANSPORTATION
	APPROVED Matthew & Rauch For state Traffic Engineer
	DATE <u>5/13/202</u> 0 PLATE NO. <u>44-3.22</u>
	SHEET NO: E
PLOT SCALE : \$\$	WISDOT/CADDS SHEET 42



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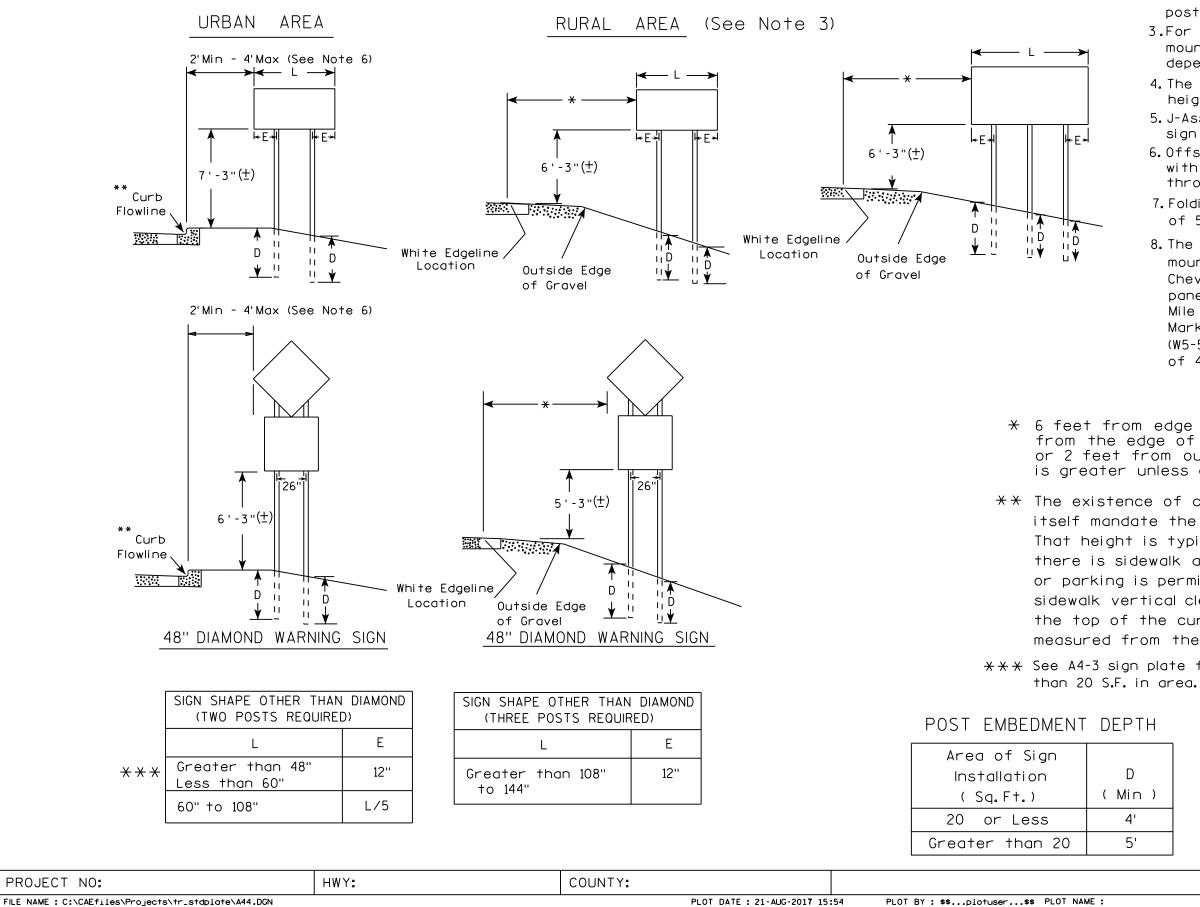
PROJECT NO:	HWY:	COUNTY:				
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN			PLOT DATE : 27-JAN-2014 09:4	8	PLOT BY : mscsja	PLOT NAME :

DATE <u>1/27/14</u>

SHEET NO:

PLATE NO. <u>A4-3B.1</u>

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FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\A44.DGN

7

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  $7'-3''(\pm)$  or  $6'-3''(\pm)$ 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"  $(\pm)$  or as directed by the engineer.
- 8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3'' (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±).

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

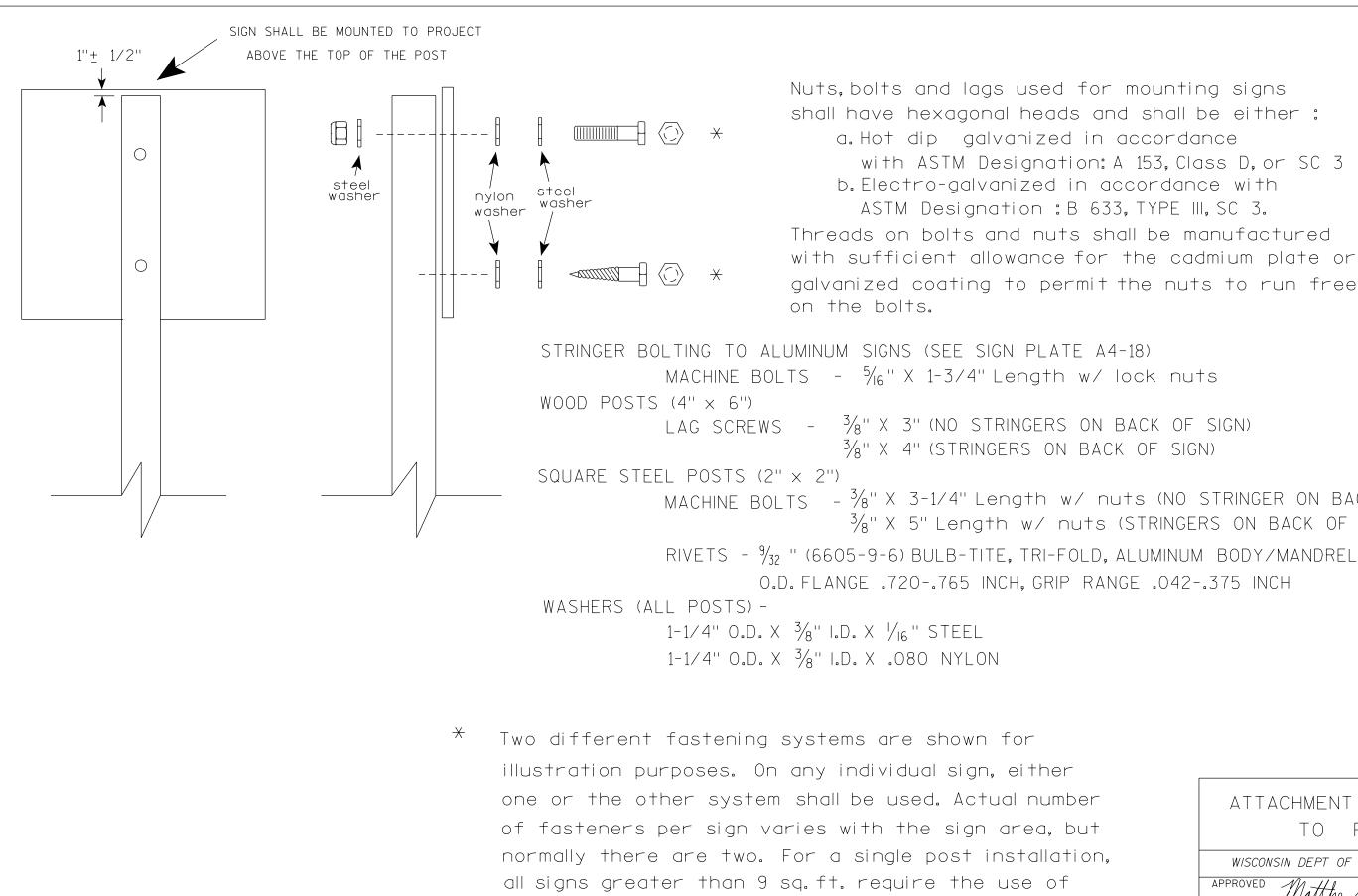
\*\* The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of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

 $\times$   $\times$  See A4-3 sign plate for signs 4' or less in width and less

H	TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS
)	WISCONSIN DEPT OF TRANSPORTATION
,	APPROVED Matther & Rauch
	For State Traffic Engineer
	DATE 8/21/17 PLATE NO. 44-4.15
	SHEET NO: E
DI AT. CA	N F + 100 100007+1 00000

PLOT SCALE : 108.188297:1.000000

WISDOT/CADDS SHEET 42



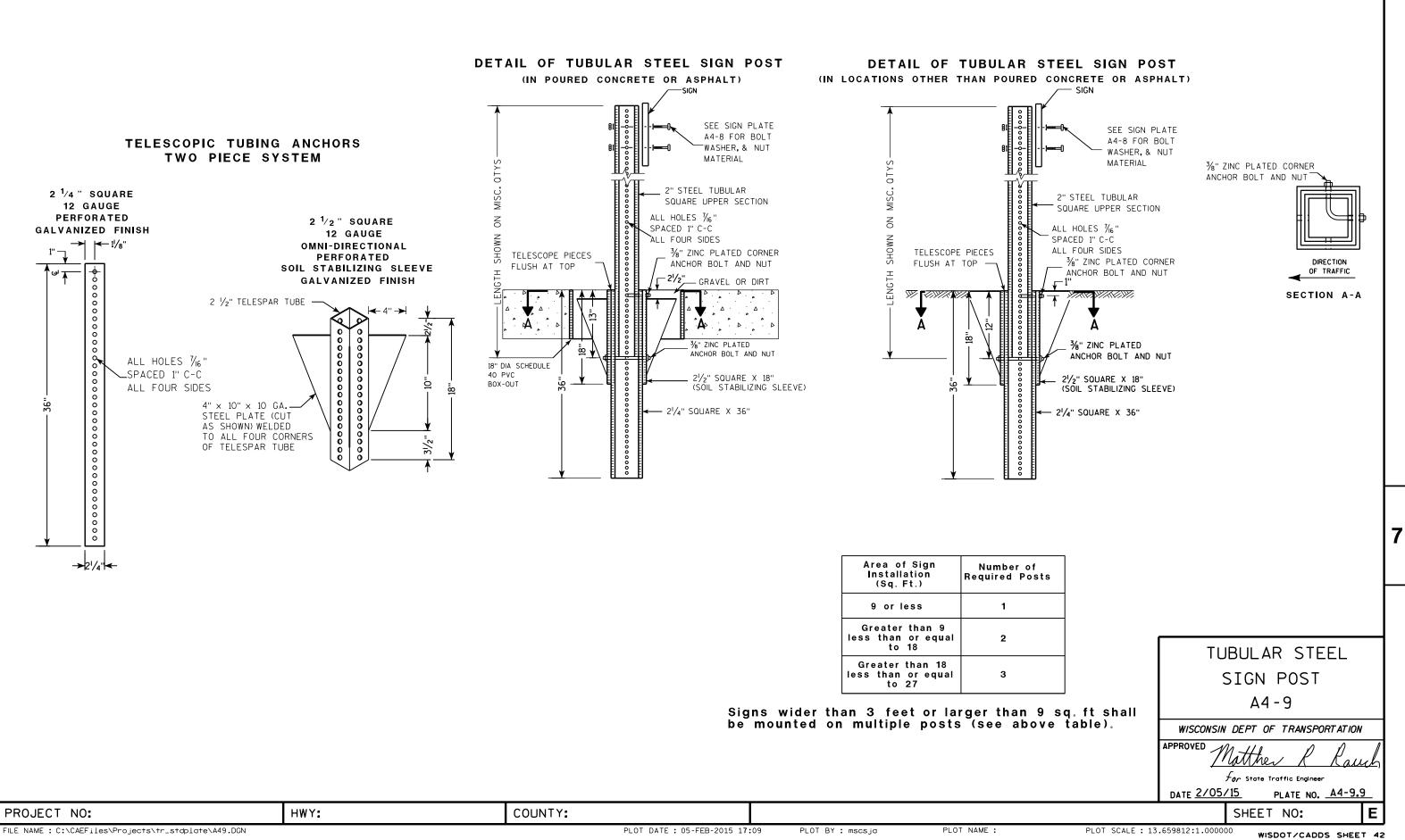
3 fasteners.

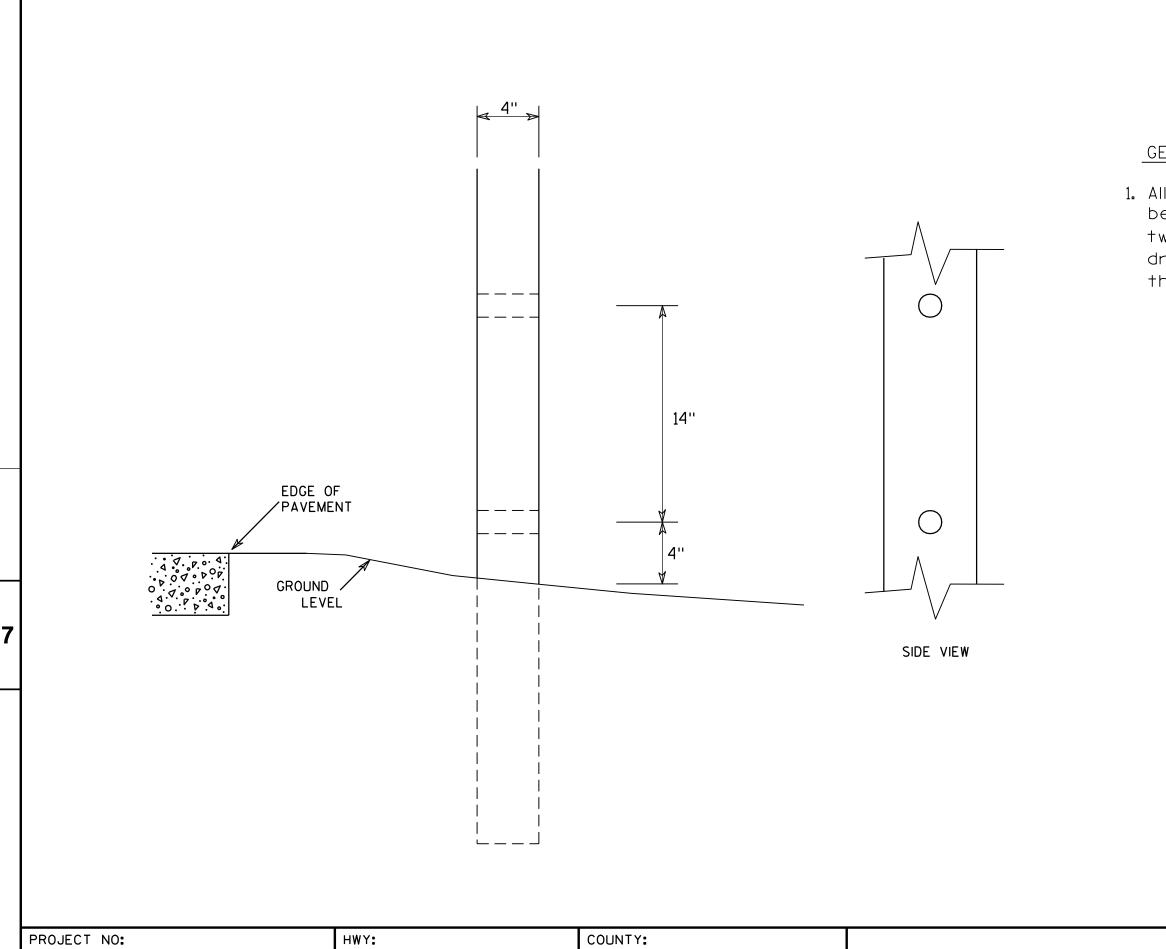
Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either : a. Hot dip galvanized in accordance with ASTM Designation: A 153. Class D. or SC 3 b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3. Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely

 $\frac{3}{8}$ " X 4" (STRINGERS ON BACK OF SIGN)

MACHINE BOLTS - <sup>3</sup>/<sub>8</sub>" 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)

ATTACHMENT OF SIGNS TO POSTS
WISCONSIN DEPT OF TRANSPORTATION
APPROVED Matthew R Rauch
∽°r State Traffic Engineer
DATE <u>4/1/202</u> 0 PLATE NO. <u>A4-8.9</u>
SHEET NO: E



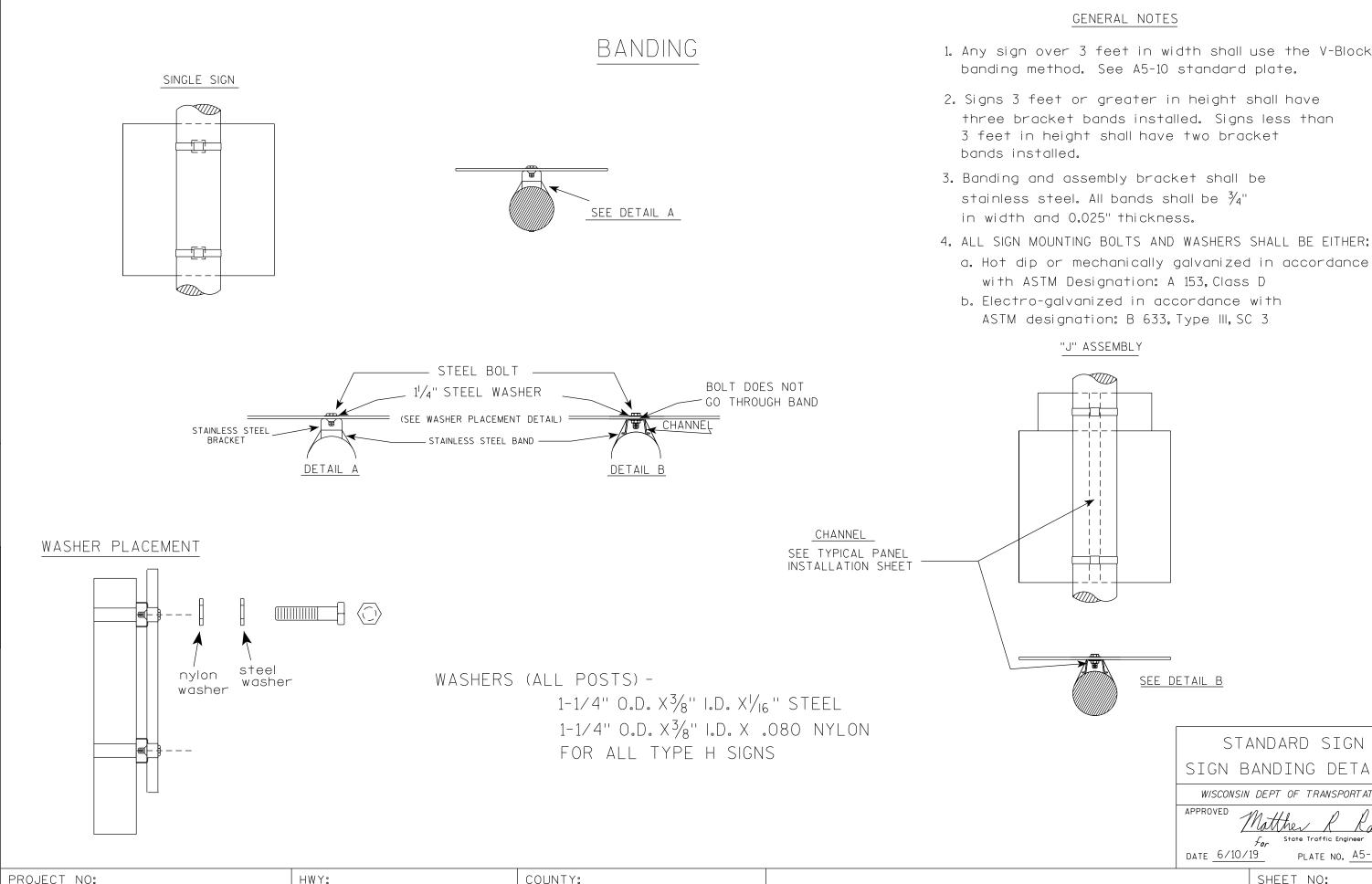


FILE NAME : C:\Users\Projects\tr\_stdplate\A411.DGN

## GENERAL NOTES

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

	4	Хe	ô	WOO	DF	POST	
		MOD	IF	FICA	TI	SNC	
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	APPROVE	D		hester .	Γέ	Spang	
			tor	State Tr	affic Er	ngineer	
	DATE 3	/27/9	<u>17</u>	PLA	TE NO	<u>A4-11.2</u>	2
			9	SHEET	N0:		Ε
OT SCALE	E:6.20 <b>7</b> 33	8:1.0000	000	WISD	от/с	ADDS SHEE	т 42



FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\A59.dgn

7

PLOT DATE : 10-JUN 2019 4:10 PLOT BY : mscj9h PLOT NAME :

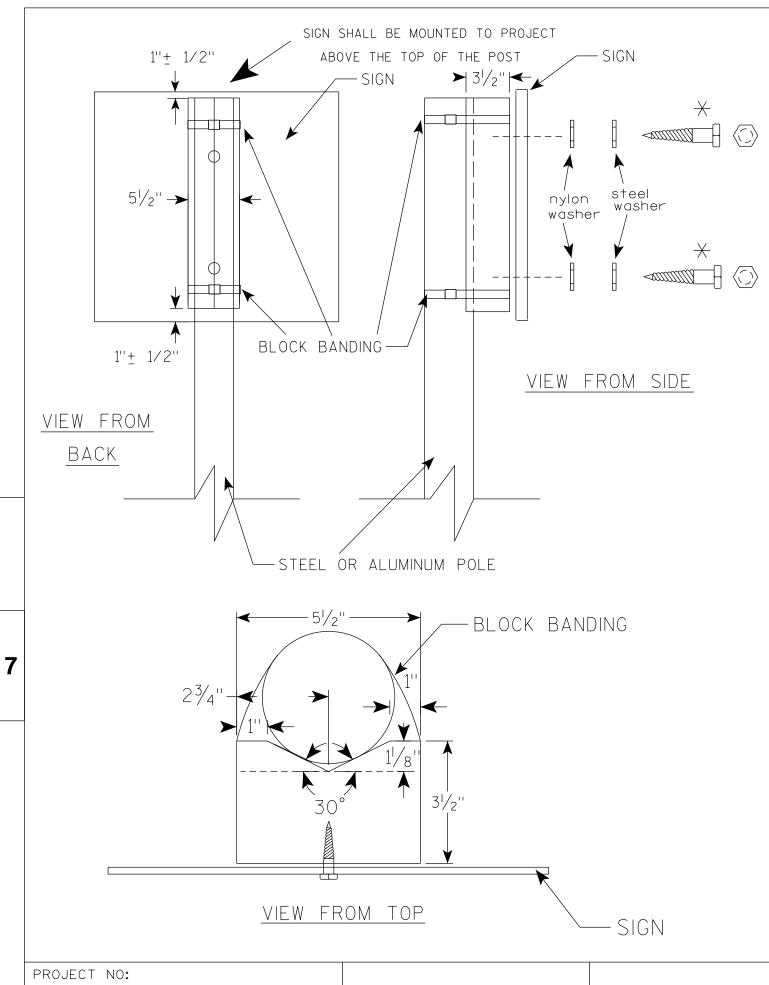
## GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.

three bracket bands installed. Signs less than 3 feet in height shall have two bracket

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

	<u>SEE DETAIL B</u>
	STANDARD SIGN
	SIGN BANDING DETAILS
	WISCONSIN DEPT OF TRANSPORTATION
	APPROVED Matthe Rauch
	DATE 6/10/19 PLATE NO. 45-9.4
	SHEET NO: E
PLOT S	CALE : \$\$plotscale\$\$ WISDOT/CADDS SHEET 42



## GENERAL NOTES

- WISDOT STANDARD SPECIFICATIONS
- AND 0.025" THICKNESS
- 9 S.F. 3 FASTENERS SHALL BE USED.
- 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  $\frac{3}{8}$ " I.D. X  $\frac{1}{16}$ "
- OR TYPE E EACE SIGN

 $\times$  LAG BOLTS SHALL BE  $\frac{3}{8}$ " X 2<sup>1</sup>/<sub>2</sub>"

FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\A510.dgr

1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE

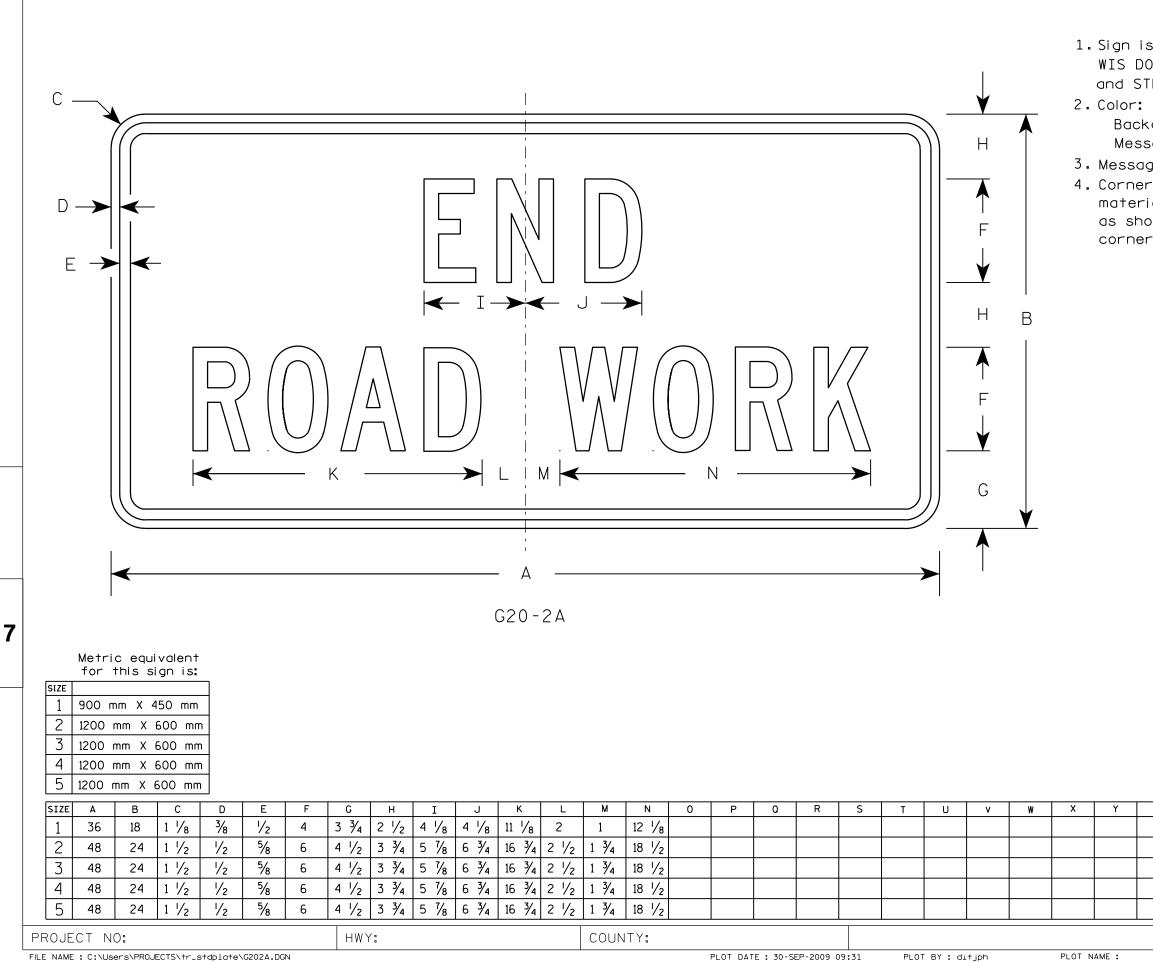
2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL,  $\frac{3}{4}$ " WIDTH

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 5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER: a. Hot dip or mechanically galvanized in accordance

8. NYLON WASHERS SHALL BE  $1^{1}/_{4}$ " O.D. X  $\frac{3}{8}$ " I.D. X .080 FOR TYPE H

BLOCK BANDING DETAIL ( V-BLOCK OPTION )
WISCONSIN DEPT OF TRANSPORTATION
APPROVED Matthew R Rauch
<i>for</i> State Traffic Engineer
DATE <u>4/19/2022</u> plate no. <u>45-10.3</u>
SHEET NO: E
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WISDOT/CADDS SHEET 42



## NOTES

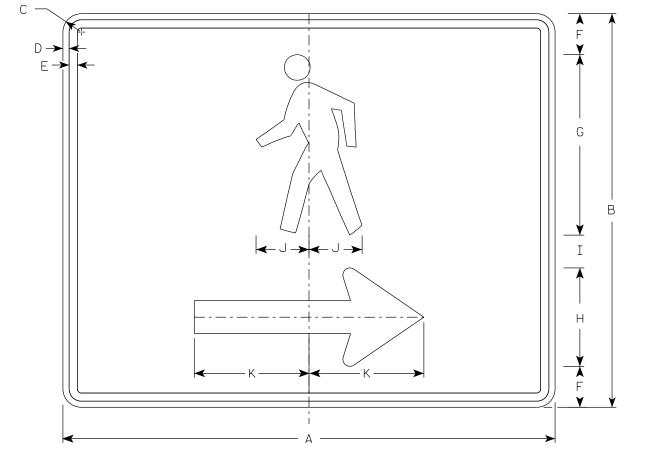
1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.

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.

Z	Areo sq. ft.	Areo		S	<b>FANDA</b>	RD SI(	GN	
-	4 <b>.</b> 5	0.41			G2(	0-2A		
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	8.0	0.72		APPROVED	M.#	er R	0 1	
	8.0	0.72			· · ·	te Traffic Engin		—
	8.0	0.72		DATE <u>9/3</u>		PLATE NO.		<u>.8</u>
					SHEET	NO:		Ε
	F	PLOT SCA	LE : 5.5617	73:1.000000	) WISE	OT/CADDS	SHEET	42



- 2. Color: Background - Orange
  - Message Black
- is reversed.



M4-60R

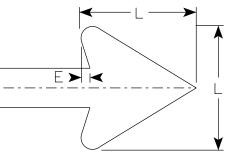
SIZE	А	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Ρ	Q	R	S	Т	U	V	W	Х	Y
1																									
2	30	24	1 1/8	3⁄8	1/2	2 1/2	11	6	2	3 1/4	7	6	2												
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4																									
5																									
PROJECT NO: HWY: COUNTY:																									
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M460.dgn       PLOT DATE : 16-SEPT 2021 8:00       PLOT BY : dotc4c       PLOT N.									PLOT NAM	Е:															

## NOTES

1. Sign is Type II- Type F Reflective

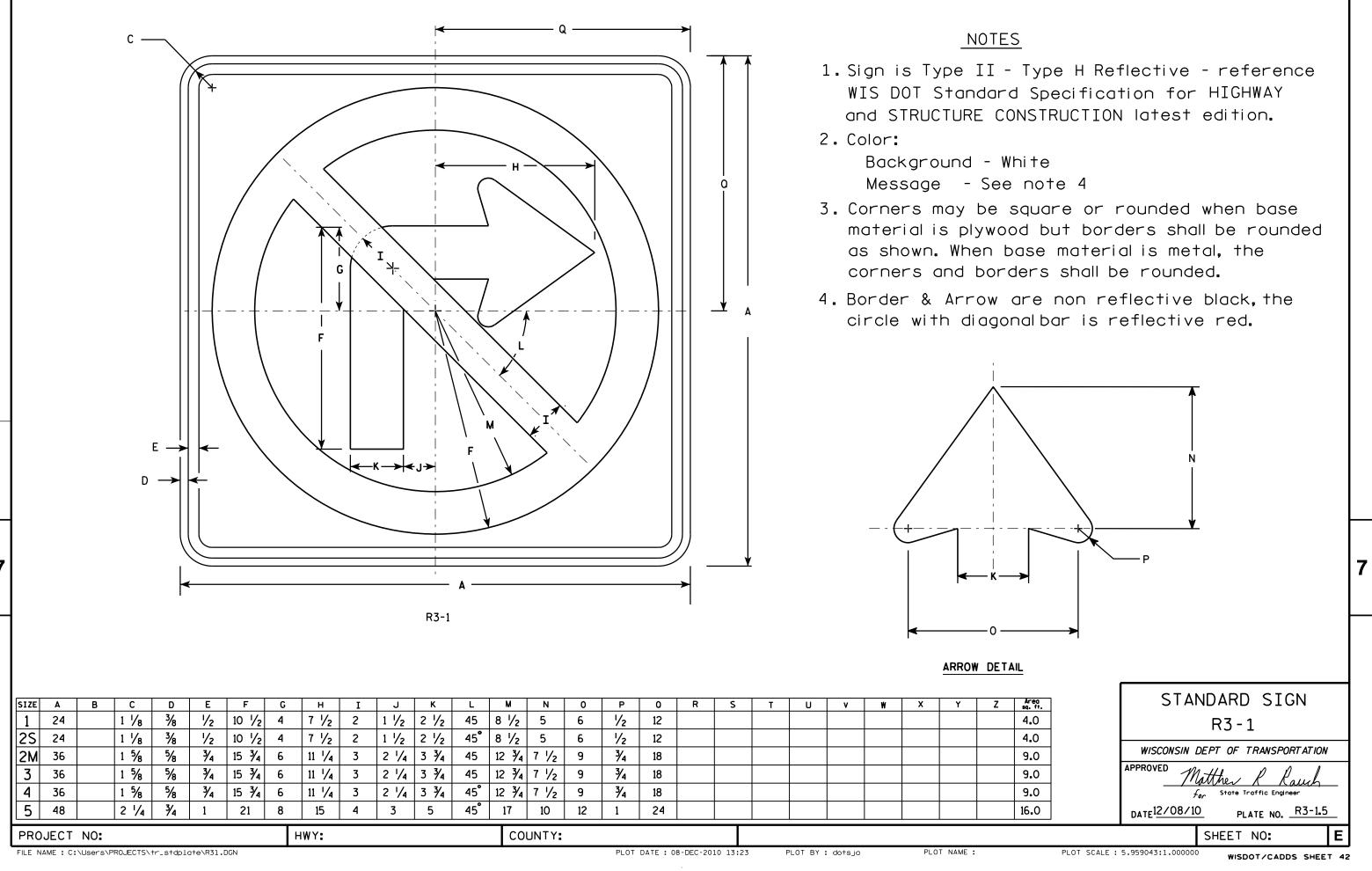
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

4. M4-60L is the same as M4-60R except the arrow



Arrow Detail

Z	Area sq. ft.	STANDARD SIGN
		M4-60 L&R
	5.00	WISCONSIN DEPT OF TRANSPORTATION
		APPROVED Matthew & Rauch
		For State Traffic Engineer
		DATE <u>9/16/2021</u> PLATE NO. <u>M4-60.1</u>
		SHEET NO: E



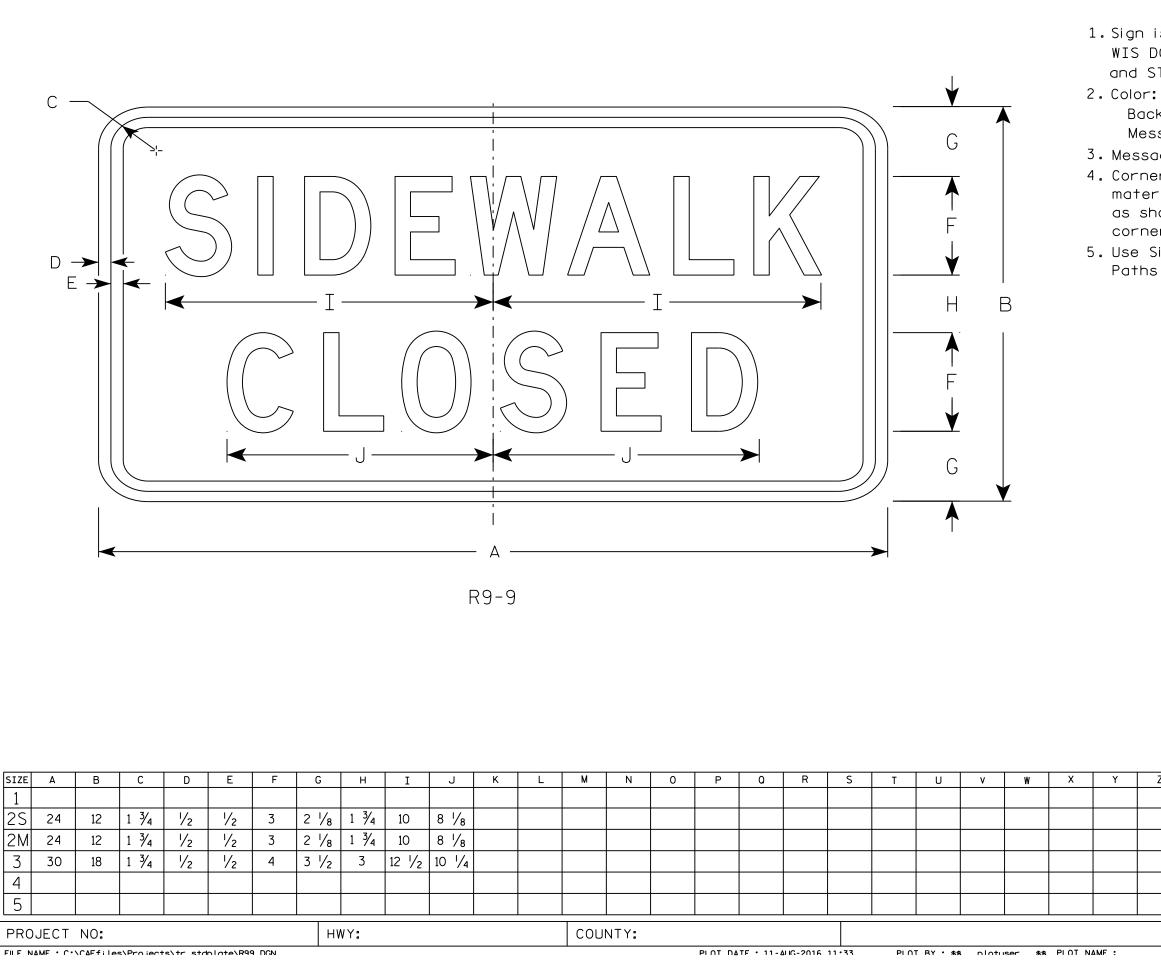
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	2M	24	36	1 1/8	3∕8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	7 1/4	7 Y <sub>2</sub>		8 <sup>1</sup> /8	7 5/8	8	22°	1/2	9 ½			
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## NOTES

ype II - Type H Reflective - reference Standard Specification for HIGHWAY CTURE CONSTRUCTION latest edition.

ound - White le - Black Series - E may be square or rounded when base is plywood but borders shall be rounded h. When base material is metal, the and borders shall be rounded.

Z	Areo sq. ft.	1				
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	6.0			R3-2	0L	
	6.0		WISCON	SIN DEPT OF TI	RANSPORT AT IOI	v
	13.5		APPROVED	Matther	P P	
					ffic Engineer	125
			DATE 10/18	<u>8/10</u> PLAT	E NO. R3-201	<u>.</u> 7
				SHEET NO	):	Ε
	DL OT		. 47 . 1 . 0.000	<u></u>		



## NOTES

 Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
 Color: Background - White Message - Black
 Message Series - C
 Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
 Use Size 2 for Sidewalks. Use Size 3 for Paths and Trails.

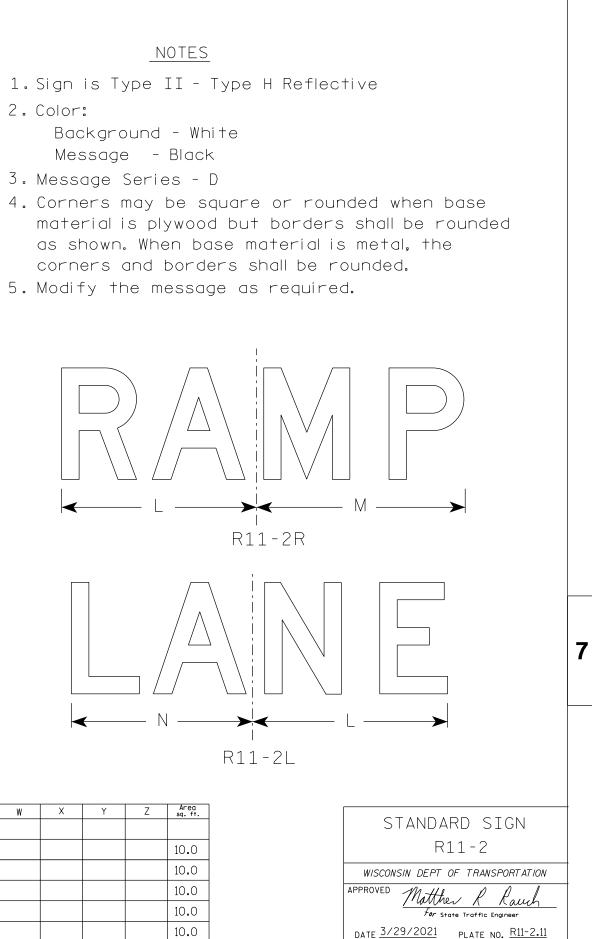
Z	Area sq. ft.	STA		) SIGN	
			R9 -	9	
	2.0	WICCONCIN		TRANSPORTATIO	
	2.0		DEFIOR		//v
	3.75	APPROVED 2	Natther	R Rain	6
			for State Tr	affic Engineer	
		DATE <u>8/11/1</u>	<u>6</u> PL	ATE NO	9.6
			SHEET	NO:	E

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	2M	48	30	1 3/8	1/2	5⁄8	8	5	4	13 1/4 13 1/		14	15	13	15 5⁄8											10.
	3	48	30	1 3/8	1/2	5⁄8	8	5	4	13 1/4 13 1/	/2 19	14	15	13	15 5⁄8											10.
	4	48	30	1 3/8	1/2	5⁄8	8	5	4	13 1⁄4 13 1⁄4		14	15	13	15 5⁄8											10.
	5	48	30	1 3/8	1/2	5⁄8	8	5	4	13 1/4 13 1/	/2 19	14	15	13	15 5⁄8											10.
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## G Ā $D \rightarrow \checkmark$ F E → V ≻≺ ΗВ

С-

- 2. Color:
- 3. Message Series D



for State Traffic Engineer											
DATE <u>3/</u>	29/2021	PLATE NO.	<u>R11-2.1</u>	<u>1</u>							
	SHEET	NO:		Ε							

			1. s 2. 3.
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,		W20-1A W20-1A W20-1B	
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3 3/4 5 1/8 15 3/8 11 1/8 12 1/8 14 3/8 1 5/8

PROJECT NO:

5

48

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FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\W201.DGN

2 1/4

3⁄4

8

1

PLOT DATE : 25-MARCH-2020

13 7/8 4 3/8

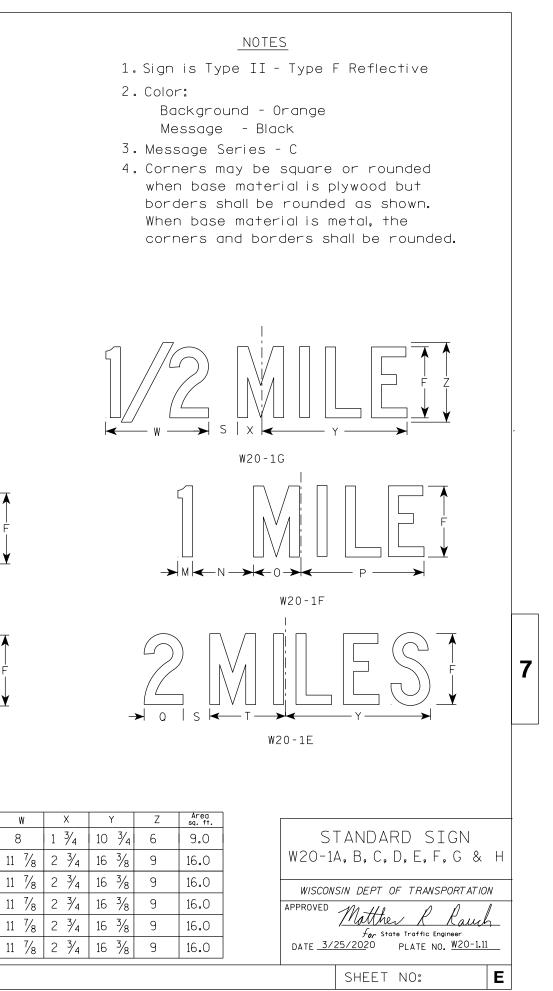
3 7/8

3

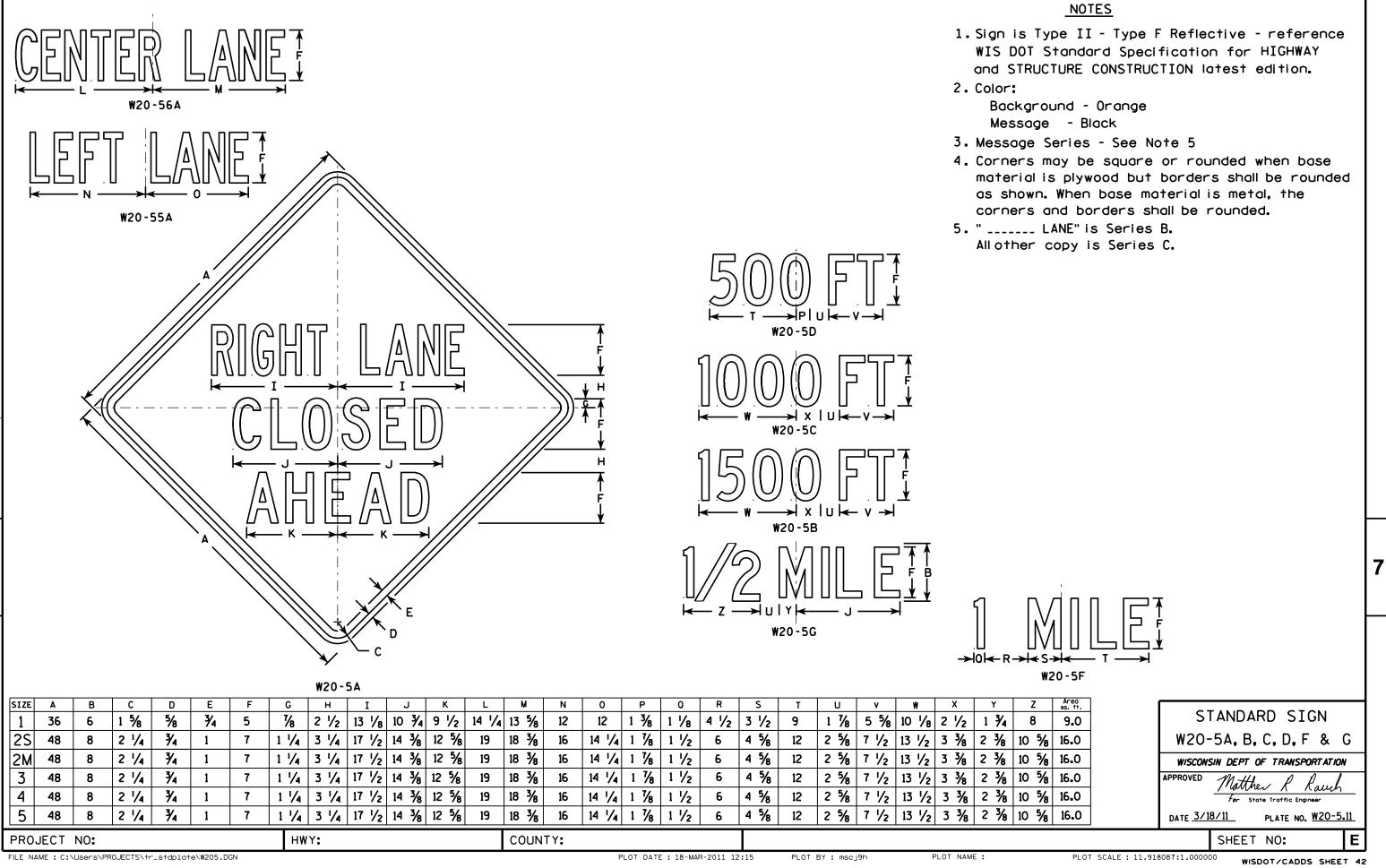
6 7/8 5 3/8

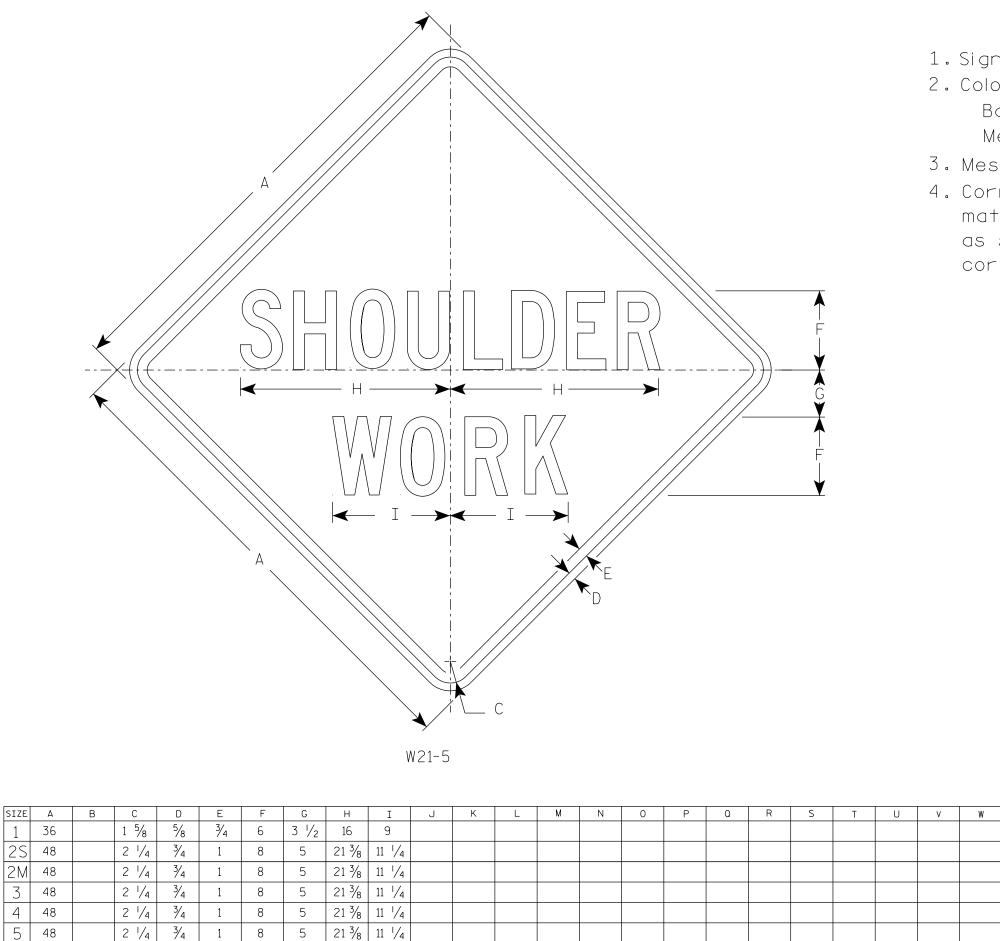
PLOT BY : dotc4c

8 5/8 13 3/4 2 1/8



WISDOT/CADDS SHEET 42





FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\W215.dgn

HWY:

PROJECT NO:

7

PLOT DATE : 30-APRIL 2020

PLOT BY : dotc4c

NOTES

- 1. Sign is Type II Type F Reflective
- 2. Color:
  - Background Orange Message – Black
- 3. Message Series C

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Y

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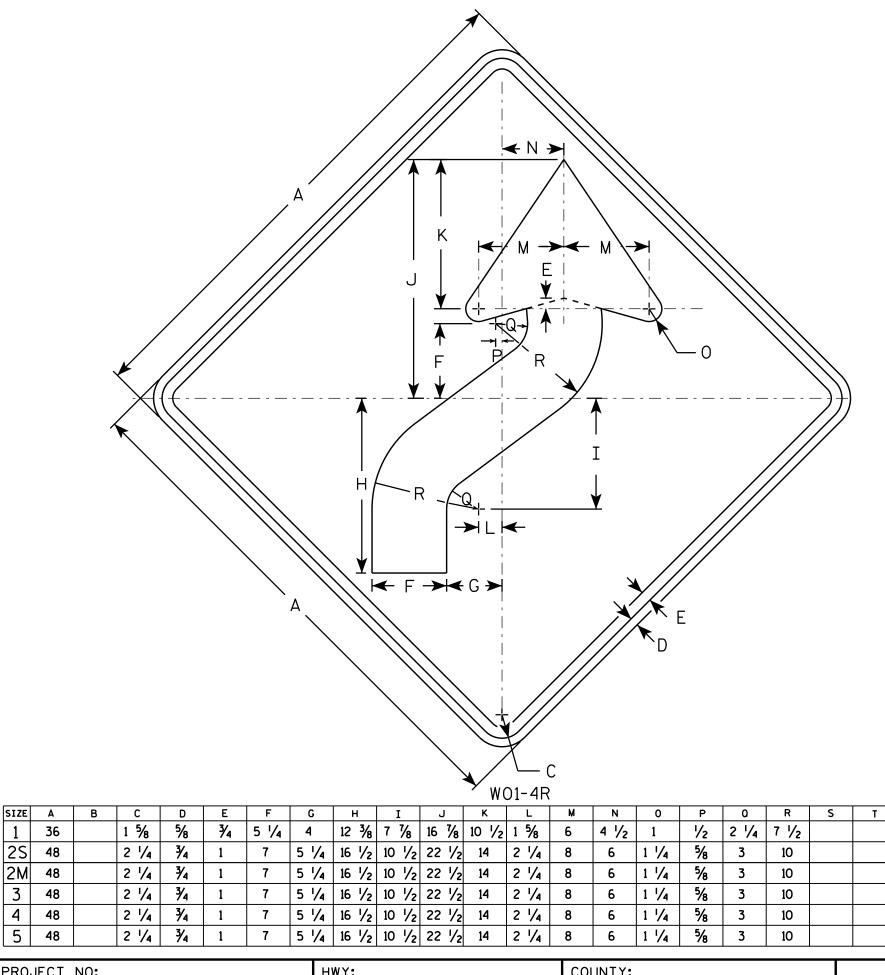
```
4. Corners may be square or rounded when base
  material is plywood but borders shall be rounded
  as shown. When base material is metal, the
  corners and borders shall be rounded.
```

Area sq. ft.	STANDARD SIGN
9.0	
16.0	W21-5
16.0	WISCONSIN DEPT OF TRANSPORTATION
16.0	APPROVED Matther & Rauch
16.0	For State Traffic Engineer
16.0	DATE <u>4/30/2020</u> PLATE NO. <u>W21-5.6</u>
	SHEET NO: <b>E</b>

7

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

COUNTY:



- 2. Color:

U

V

- Background Orange Message - Black

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W

Y

PROJECT NO:	HWY:	COUNTY:		
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W014.DGN		PLOT DATE : 28-FEB-2014 11:	35 PLOT BY : mscj9h	PLOT NAME :

## NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.

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

4. W01-4L is the same as W01-4R except the arrow is reversed along the vertical centerline.

		STANDARD SIGN
Z	Area sq. ft.	WO1-4
	9.0	WOI-4
	16.0	WISCONSIN DEPT OF TRANSPORTATION
	16.0	APPROVED 100 110 0 0
	16.0	Matther & Rauch
	16.0	$f_{or}$ State Traffic Engineer
	16.0	DATE <u>11/18/1</u> 3 plate no. <u>W01-4.1</u>
		SHEET NO: E

WISDOT/CADDS SHEET 42

$ \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$	

- 2. Color:
  - Background Orange Message – Black

SIZE	Α	В	С	D	E	F	G	н	I	J	к	L	M	N	0	Р	0	R	S	Т	U	v	W	X	Y	
1	36		1 5/8	5⁄8	3⁄4	12	4	45°	1	1 3⁄4	5	3	1 1/2													
2S	48		2 1⁄4	3⁄4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3⁄4	4	2													
2M	48		2 1/4	3⁄4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3⁄4	4	2													
3	48		2 1/4	3⁄4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3⁄4	4	2													Γ
4	48		2 1/4	3⁄4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3⁄4	4	2													Γ
5	48		2 1/4	3⁄4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3⁄4	4	2													
											_															
PRO	PROJECT NO:																									

FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\W042.DGN

7

## NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.

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

4. W04-2L is the same as W04-2R except the symbolis reversed along the vertical centerline.

Z	Areo sq. ft.	STANDARD SIGN
	9.0	WO4-2
	16.0	W04-2
	16.0	WISCONSIN DEPT OF TRANSPORTATION
	16.0	APPROVED Matthew & Rauch
	16.0	ForState Traffic Engineer
	16.0	DATE 11/20/13 PLATE NO. W04-2.1
		SHEET NO: E

### EARTHWORK - MAINLINE

$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	FILL         MAS:           1.25         ORDIN           OTE 3         NOTE           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         21           0         38           0         50           0         58           0         73           0         90           0         114           0         119           1         134           4         142           5         163           5         163           5         163           5         193           5         209           6         225           6         248           6         265	IATE E 4
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	1.25         ORDIN NOTE 3           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         6           0         21           0         38           0         50           0         58           0         73           0         90           0         114           0         119           1         134           4         142           5         163           5         178           5         209           6         225           6         225           6         248	IATE E 4
STATION         CUT         FILL         NOTE 1         NOTE 2         NOTE 3         NOTE 1         NOTE 2         NOTE 3           10+00.00         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         11         0         11         0         11         0         11         0         11         0         11         0         11         11         13         11         14         14         0         11         14         11         13         11	OTE 3         NOTE           0         0           0         0           0         0           0         0           0         0           0         21           0         38           0         50           0         58           0         73           0         90           0         114           0         119           1         134           4         142           5         163           5         163           5         103           5         209           6         2255           6         235           6         248	E 4 5 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
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$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\begin{array}{ccccc} 0 & 0 \\ 0 & 0 \\ 0 & 6 \\ 0 & 21 \\ 0 & 38 \\ 0 & 50 \\ 0 & 58 \\ 0 & 50 \\ 0 & 50 \\ 0 & 50 \\ 0 & 50 \\ 0 & 50 \\ 0 & 51 \\ 0 & 90 \\ 0 & 0 \\ 0 & 114 \\ 0 & 119 \\ 1 & 134 \\ 4 & 142 \\ 5 & 158 \\ 5 & 163 \\ 5 & 163 \\ 5 & 163 \\ 5 & 193 \\ 5 & 193 \\ 5 & 193 \\ 5 & 209 \\ 6 & 225 \\ 6 & 248 \\ 6 & 248 \\ \end{array}$	; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\begin{array}{ccccc} 0 & 0 \\ 0 & 6 \\ 0 & 21 \\ 0 & 38 \\ 0 & 50 \\ 0 & 58 \\ 0 & 73 \\ 0 & 90 \\ 0 & 114 \\ 0 & 119 \\ 1 & 134 \\ 4 & 142 \\ 5 & 158 \\ 5 & 163 \\ 5 & 163 \\ 5 & 163 \\ 5 & 193 \\ 5 & 209 \\ 6 & 225 \\ 6 & 248 \\ \end{array}$	; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;
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$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccc} 0 & 21 \\ 0 & 38 \\ 0 & 50 \\ 0 & 58 \\ 0 & 73 \\ 0 & 90 \\ 0 & 114 \\ 0 & 119 \\ 1 & 134 \\ 4 & 142 \\ 5 & 158 \\ 5 & 163 \\ 5 & 163 \\ 5 & 178 \\ 5 & 193 \\ 5 & 209 \\ 6 & 225 \\ 6 & 248 \\ \end{array}$	; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\begin{array}{cccc} 0 & 38 \\ 0 & 50 \\ 0 & 58 \\ 0 & 73 \\ 0 & 90 \\ 0 & 114 \\ 0 & 119 \\ 1 & 134 \\ 4 & 142 \\ 5 & 158 \\ 5 & 163 \\ 5 & 178 \\ 5 & 193 \\ 5 & 209 \\ 6 & 225 \\ 6 & 248 \\ \end{array}$	; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	0 50 0 58 0 73 0 90 0 114 0 119 1 344 4 142 5 158 5 163 5 178 5 193 5 209 6 225 6 235 6 248	9 9 9 9 9 9 9 9 9 5 5 8
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	0 58 0 73 0 90 0 114 0 119 1 134 4 142 5 158 5 163 5 178 5 193 5 209 6 225 6 235 6 248	5 9 9 9 9 4 2 8 3 8 3 9 5 5 8
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	0 73 0 90 0 114 0 119 1 134 4 142 5 158 5 163 5 178 5 193 5 209 6 225 6 235 6 248	5 9 4 2 8 3 8 3 3 9 5 5 8
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	0         90           0         114           0         119           1         134           4         142           5         158           5         163           5         193           5         209           6         225           6         235           6         248	4 99 4 2 8 3 8 3 3 9 5 5 5 8
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	0 114 0 119 1 134 4 142 5 158 5 163 5 178 5 193 5 209 6 225 6 235 6 248	4 9 4 2 8 3 3 8 3 3 9 5 5 5 8
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	0 119 1 134 4 142 5 158 5 163 5 178 5 193 5 209 6 225 6 235 6 248	9 4 2 8 3 3 8 3 9 5 5 5 8
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	1         134           4         142           5         158           5         163           5         193           5         209           6         225           6         248	4 2 8 3 3 9 5 5 8
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	4 142 5 158 5 163 5 178 5 193 5 209 6 225 6 235 6 248	2 8 3 8 3 9 5 5 5 8
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	5         158           5         163           5         178           5         193           5         209           6         225           6         235           6         248	8 3 8 3 9 5 5 8
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	5         163           5         178           5         193           5         209           6         225           6         235           6         248	3 8 3 9 5 5 8
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19+50.00         8         0         16         0         0         287         5           20+00.00         10         0         17         0         0         304         5           20+50.00         10         0         19         0         0         323         5           21+00.00         10         0         19         0         0         342         5           21+50.00         9         0         18         0         0         360         5	6 265	5
20+00.00         10         0         17         0         0         304         5           20+50.00         10         0         19         0         0         323         5           21+00.00         10         0         19         0         0         342         5           21+50.00         9         0         18         0         0         360         5		
20+50.00         10         0         19         0         0         323         5           21+00.00         10         0         19         0         0         342         5           21+50.00         9         0         18         0         0         360         5	6 281	
21+00.00         10         0         19         0         0         342         5           21+50.00         9         0         18         0         0         360         5	6 298	
21+50.00 9 0 18 0 0 360 5	6 317	
	6 336	-
	6 354	
22+00.00         8         0         16         0         376         5	6 370	
22+50.00 4 2 11 2 3 387 7	9 378	-
23+00.00 7 1 10 3 4 397 10	13 384	
23+50.00 13 0 19 1 1 416 11	14 402	
24+00.00 2 4 14 4 5 430 15	19 411	
24+02.78 2 4 0 0 0 430 15	19 411	
24+50.00 11 0 11 3 4 441 18	23 418	
25+00.00 13 0 22 0 0 463 18	23 440	-
25+50.00         9         0         20         0         483         18           20         0         0         483         18         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         1	23 460	-
26+00.00         10         0         18         0         501         18	23 478	
26+53.64         19         0         29         0         0         530         18	23 507	
26+61.23         19         0         5         0         0         535         18           27+00.00         12         0         0         0         550         10	23 512	
27+00.00 13 0 23 0 0 558 18	23 535	-
27+30.07 13 0 14 0 0 572 18	23 549	-
27+50.00 10 0 8 0 0 580 18	23 557	
28+00.00 4 1 13 1 1 593 19	24 569	
28+50.00         6         1         9         2         3         602         21           28+50.00         4         5         64         5         64         35	27 575	
29+00.00         4         3         9         4         5         611         25           29+00.00         4         3         9         4         5         611         25	32 579	-
29+50.00         4         2         7         5         6         618         30           20+00.00         5         6         7         5         6         618         30	38 580	-
30+00.00         5         6         8         7         9         626         37           20+00.00         14         0         14         0         14         0         14         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1	47 579	
<u>30+36.30 11 0 11 4 5 637 41</u>	52 585	5
MAINLINE COLUMN TOTALS = 637 41 52 637 41		5

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE MATERIAL
2 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXCAVATION VOLUMES
3 - FILL (25%)	FILL 25% = (FILL - EXPANED ROCK (1.1) - REDUCED MARSH (0.6))*1.25
4 - MASS ORDINATE	CUT - FILL (25%)

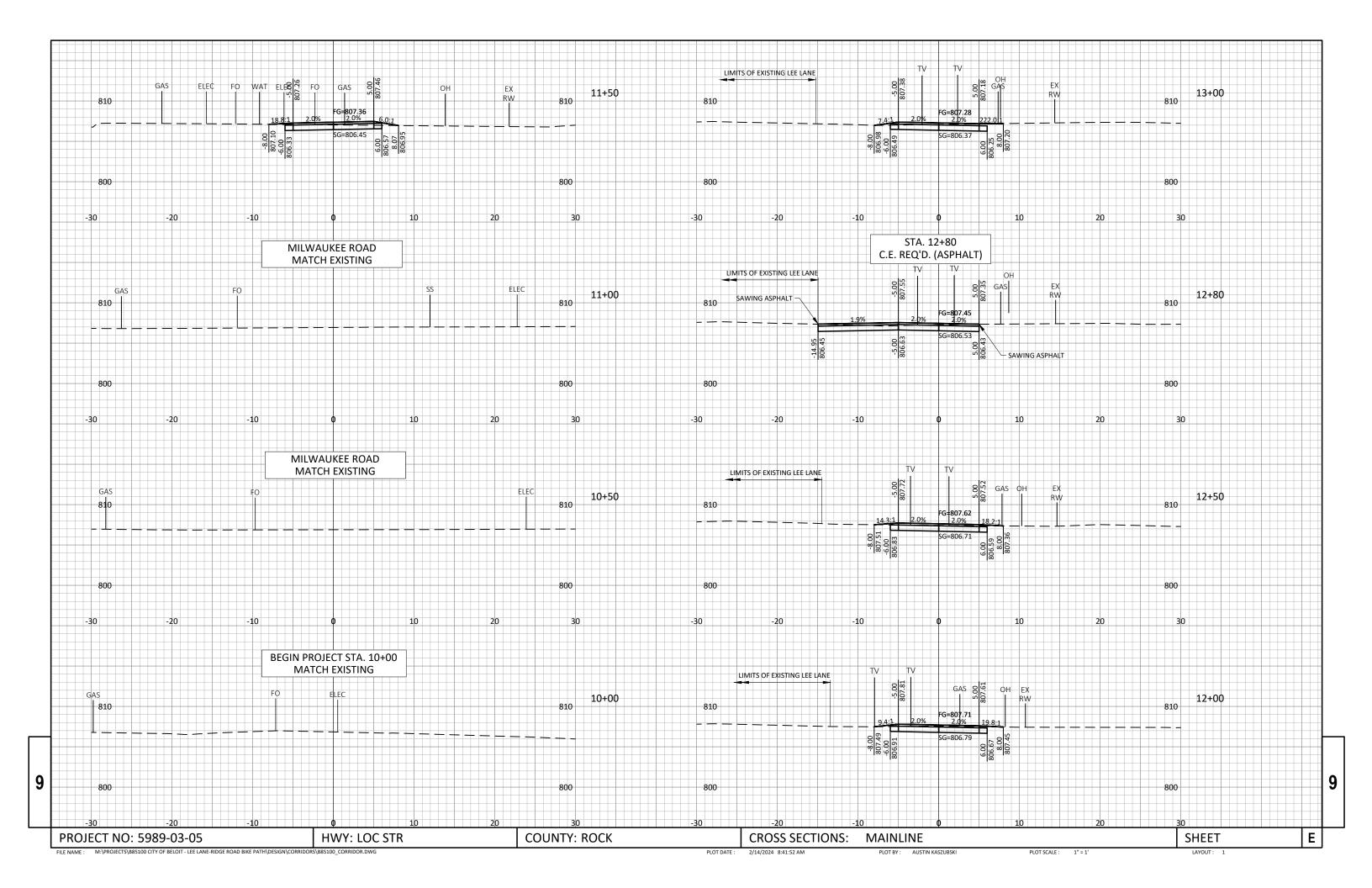
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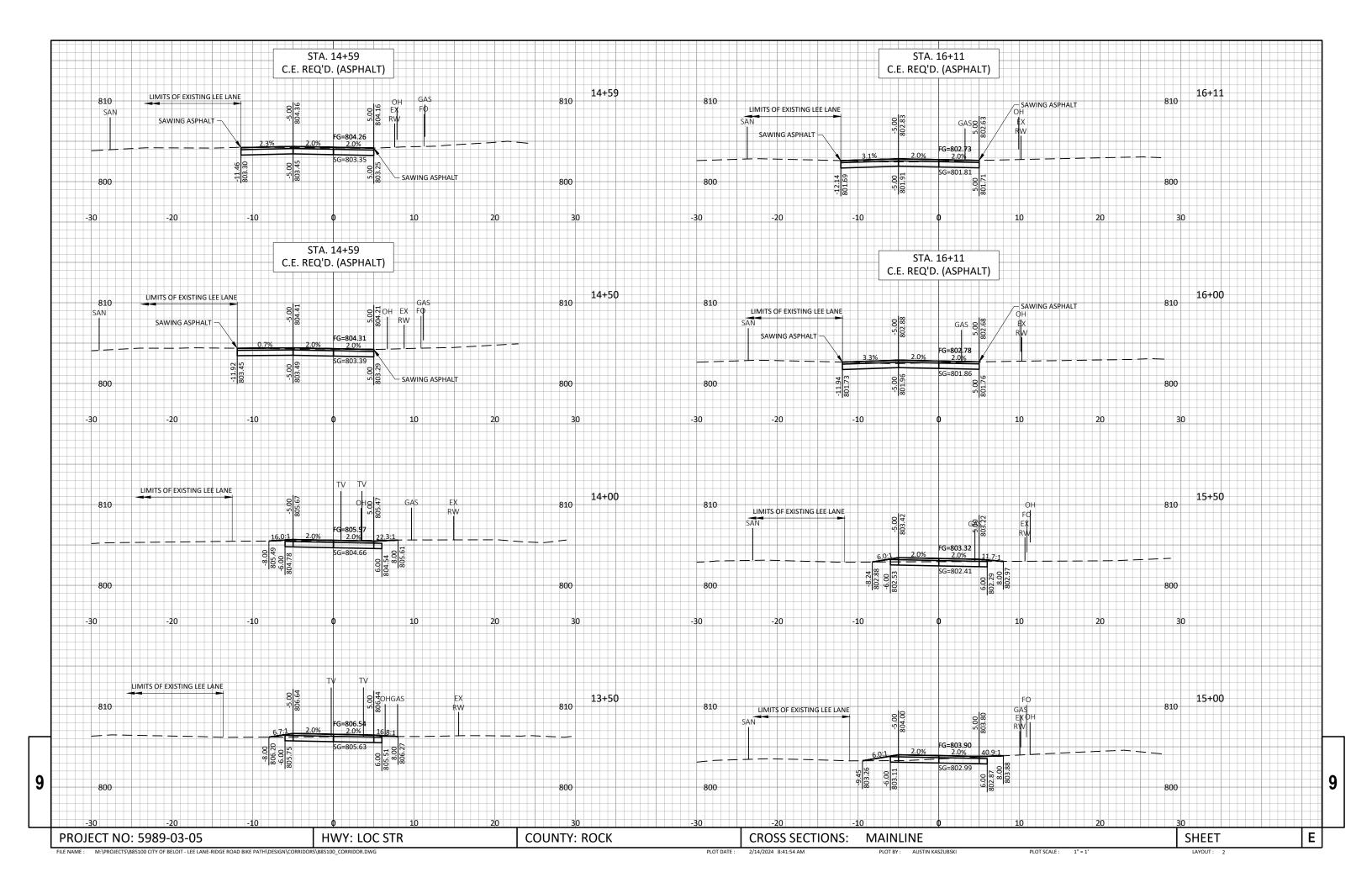
9

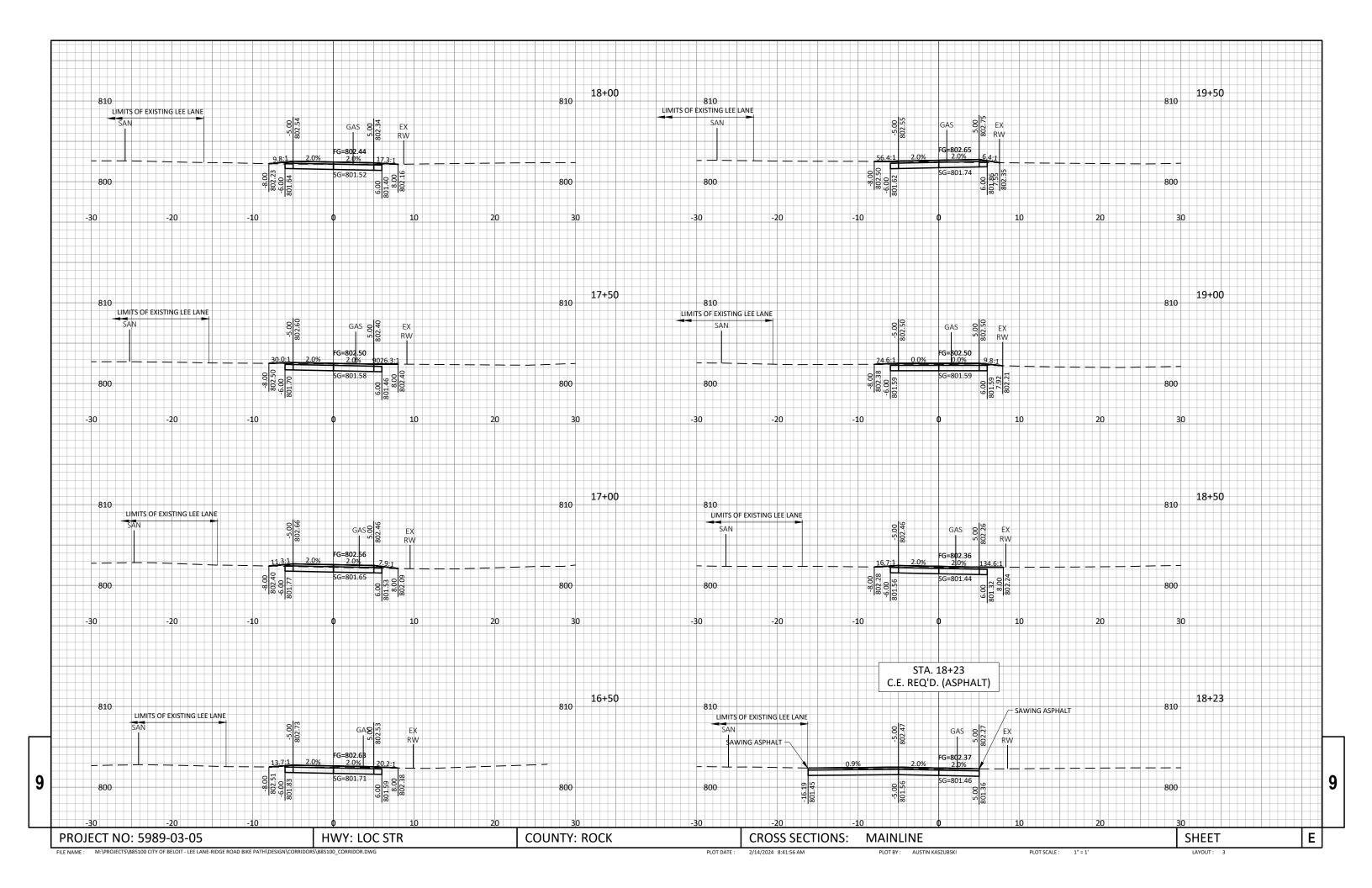
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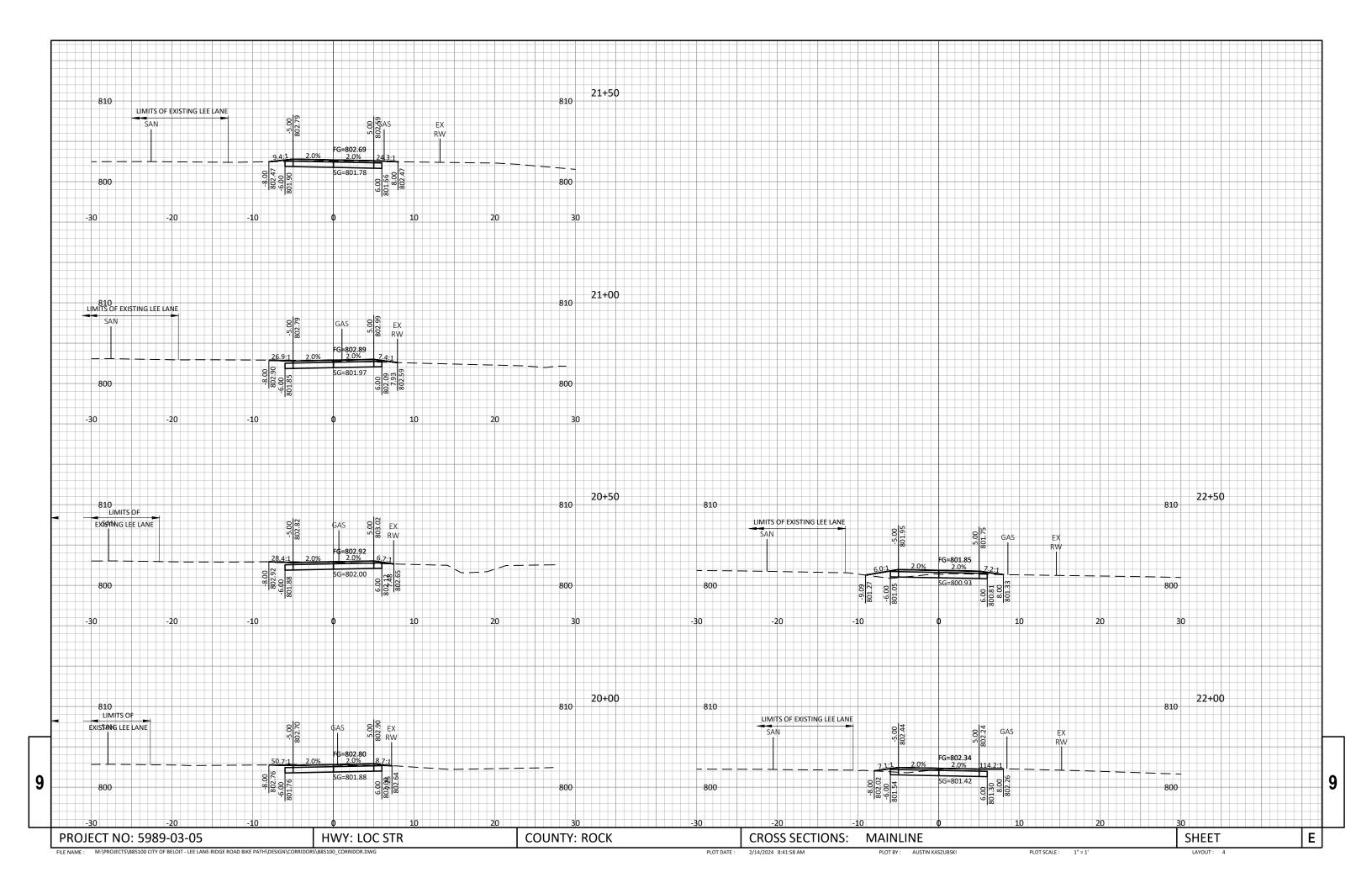
PLOT BY : AUSTIN KASZUBSKI

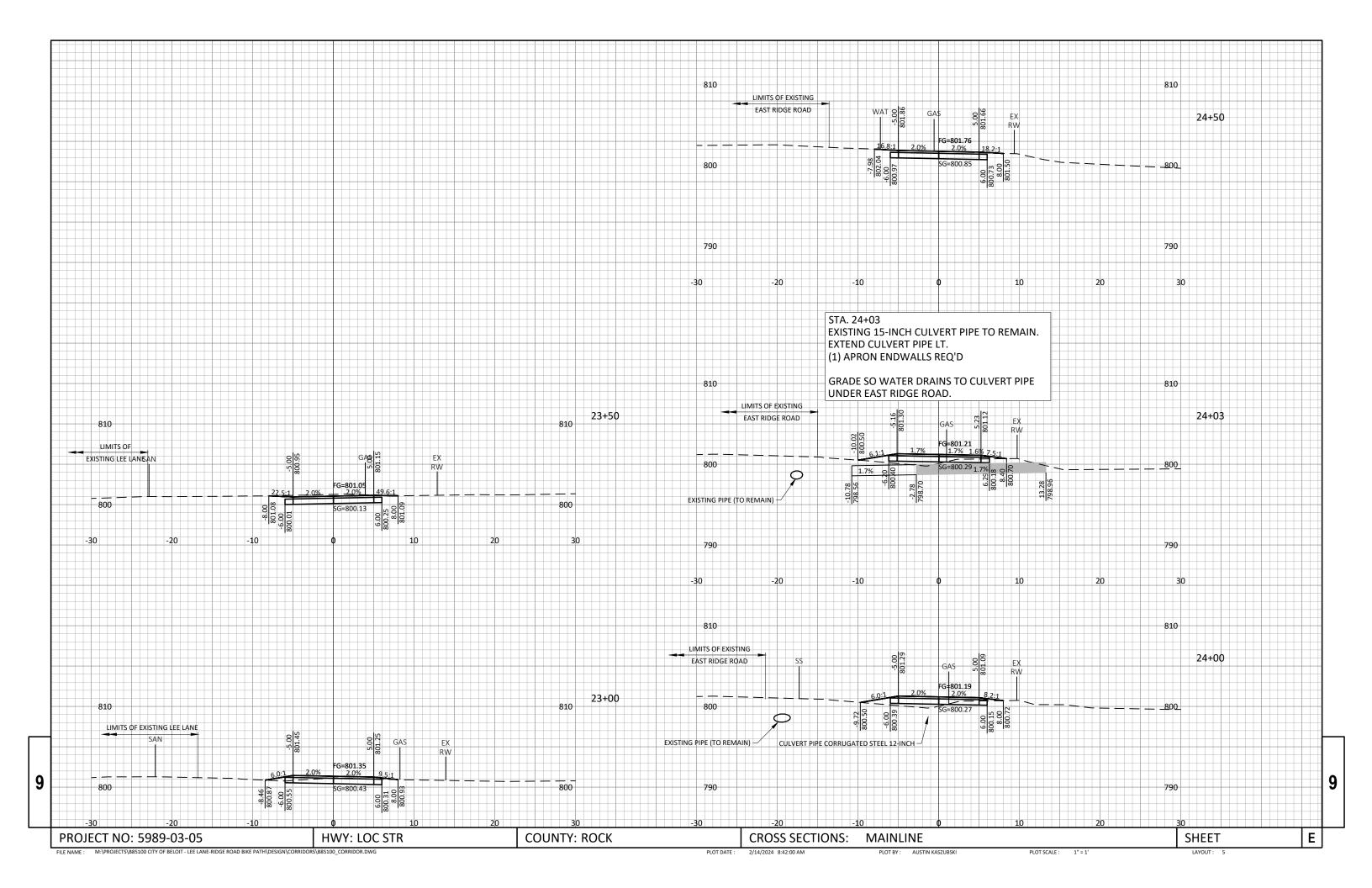


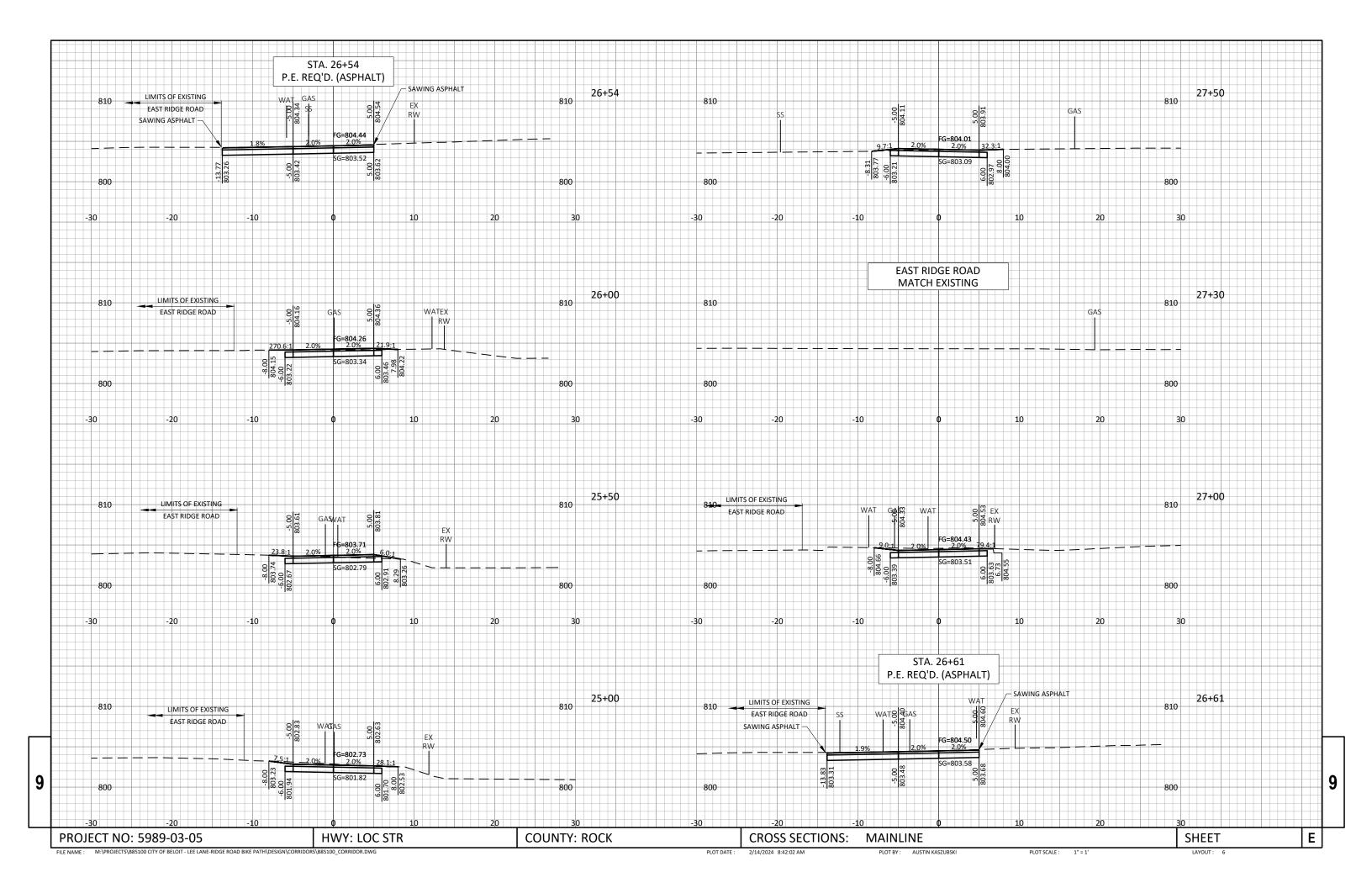


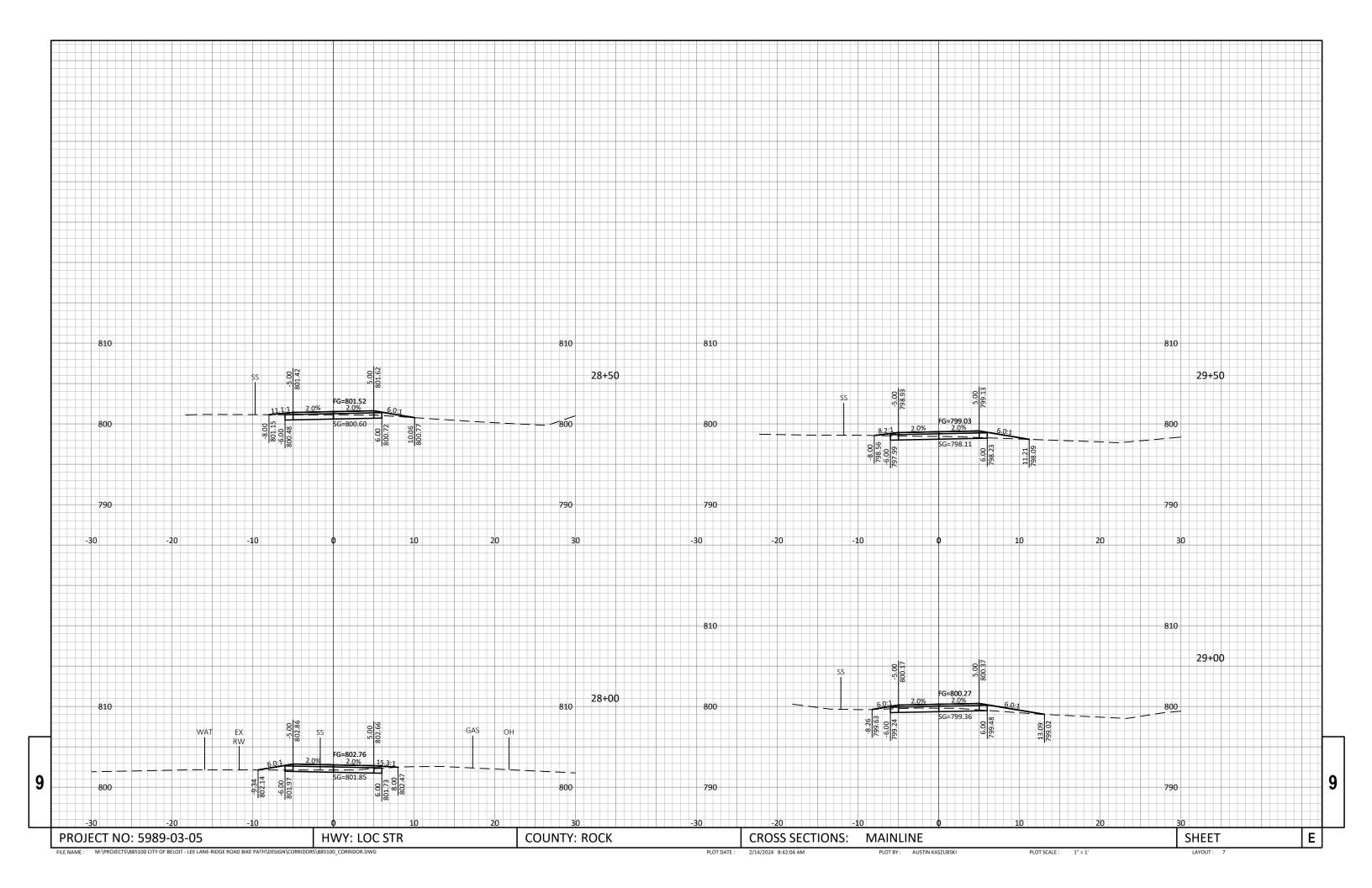


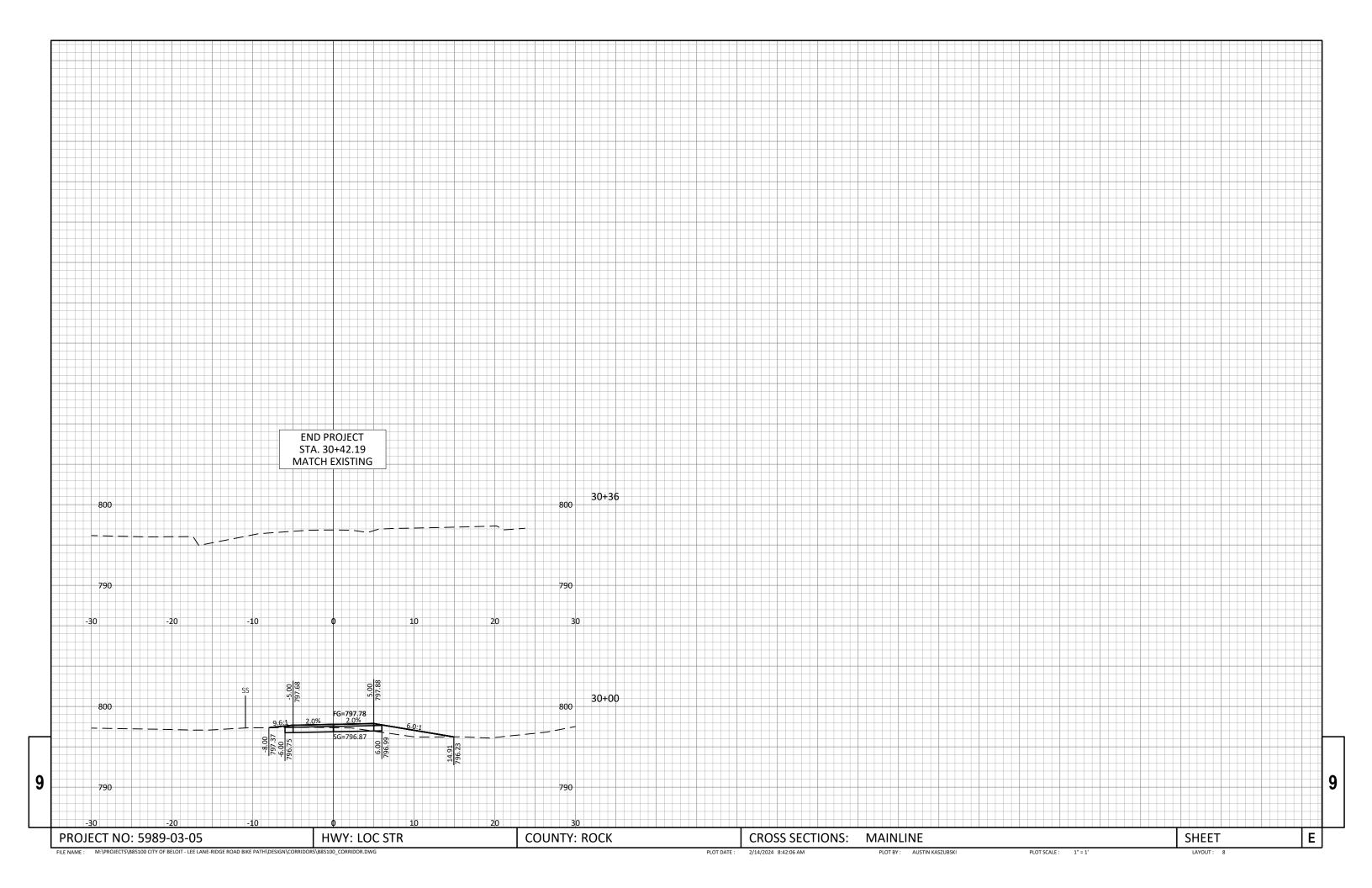


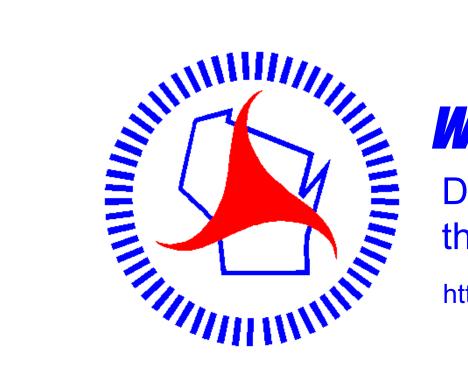












# Wisconsin Department of Transportation

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