

GENERAL NOTES

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

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.

DISTURBED AREAS WITHIN THE RIGHT OF WAY ARE TO BE TOP SOILED, SEEDED FERTILIZED, AND MULCHED.

WHEN THE QUANTITY OF ITEM BASE LAYER OR SURFACE LAYER IS MEASURED FOR PAYMENT BY THE TON, THE THICKNESS OF THE MATERIAL THAT IS SHOWN ON THE PLANS IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF MATERIAL AS DIRECTED BY THE ENGINEER.

STANDARD ABBREVIATIONS

ABUT	ABUTMENT	OFF	OFFSET
AGG	AGGREGATE	PC	POINT OF CURVATURE
ET AL	AND OTHERS	PI	POINT OF INTERSECTION
AADT	ANNUAL AVERAGE DAILY TRAFFIC	PT	POINT OF TANGENCY
BF	BACK FACE	POL	POINT ON LINE
BM	BENCHMARK	PE	PRIVATE ENTRANCE
C/L OR €	CENTERLINE	PL	PROPERTY LINE
Δ	CENTRAL ANGLE OR DELTA	PSI	POUNDS/SQUARE INCH
CLR	CLEAR	PROP	PROPOSED
CONC	CONCRETE	R	RADIUS
CONST	CONSTRUCTION	RR	RAILROAD
COR	CORNER	REBAR	REINFORCEMENT BAR
CMP	CORRUGATED METAL PIPE	REQ'D	REQUIRED
CTH	COUNTY TRUNK HIGHWAY	RT	RIGHT
CR	CREEK	RHF	RIGHT-HAND FORWARD
CFS	CUBIC FEET/SECOND	R/W	RIGHT-OF-WAY
CULV	CULVERT	RD	ROAD
D	DEGREE OF CURVE	SEC	SECTION
DHV	DESIGN HOUR VOLUME	S	SOUTH
DIA	DIAMETER	SE	SOUTHEAST
E	EAST	SW	SOUTHWEST
EL	ELEVATION	STH	STATE TRUNK HIGHWAY
EST	ESTIMATED	STA	STATION
FPS	FEET PER SECOND	SE	SUPER ELEVATION
FE	FIELD ENTRANCE	T	TANGENT
FT	FOOT (FEET)	TEL	TELEPHONE
FTG	FOOTING	TEMP	TEMPORARY
FDN	FOUNDATION	TI	TEMPORARY INTEREST
FF	FRONT FACE	TLE	TEMPORARY LIMITED EASEMENT
IP	IRON PIN	TL OR T/L	TRANSIT LINE
LT	LEFT	T	TRUCKS
LHF	LEFT-HAND FORWARD	TYP	TYPICAL
L	LENGTH OF CURVE	U/G	UNDERGROUND
LF	LINEAR FOOT	USH	UNITED STATES HIGHWAY
MAX	MAXIMUM	VAR	VARIABLE
MI	MILE	V	VELOCITY
MIN	MINIMUM	VPC	VERTICAL POINT OF CURVATURE
NC	NORMAL CROWN	VPI	VERTICAL POINT OF INTERSECTION
N	NORTH	VPT	VERTICAL POINT OF TANGENCY
NE	NORTHEAST	W	WEST
NW	NORTHWEST	YB	YARD
NO	NUMBER		

Control Point and Benchmark Table					
Point #	Description	Station	Offset	Elevation	Description
8	CP	5+72.6	22.3' LT	748.714'	CP NAIL
9	CP	2+20.2	22.2' RT	746.439'	CP NAIL
11	CP	7+20.4	25.8' RT	747.394'	CP NAIL



Dial 811 or (800)242-8511

www.DiggersHotline.com
 **DENOTES UTILITIES THAT ARE NOT DIGGERS HOTLINE MEMBERS.

UTILITY CONTACTS

SEWER & WATER

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COMMUNICATION

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 BRIAN STELPLUGH
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 LA CROSSE, WI 54601
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 EMAIL: brian.stelplugh@brightspeed.com

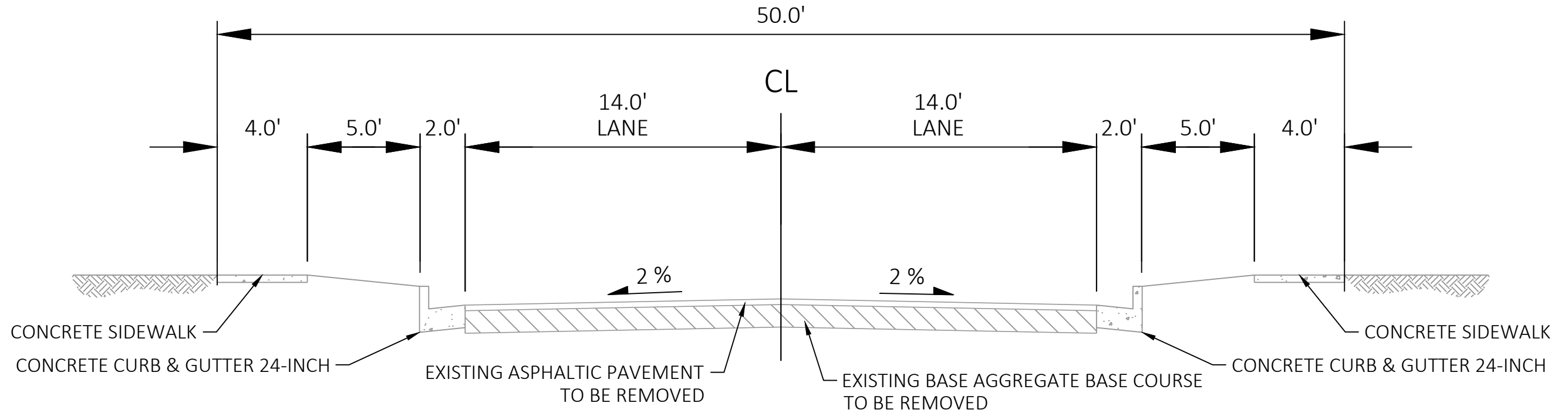
DNR CONTACT

KAREN KALVELAGE
 3550 MORMON COULEE ROAD
 LA CROSSE, WI 54601
 (608) 785-9115
 karen.kalvelage@wisconsin.gov

RUNOFF COEFFICIENT TABLE

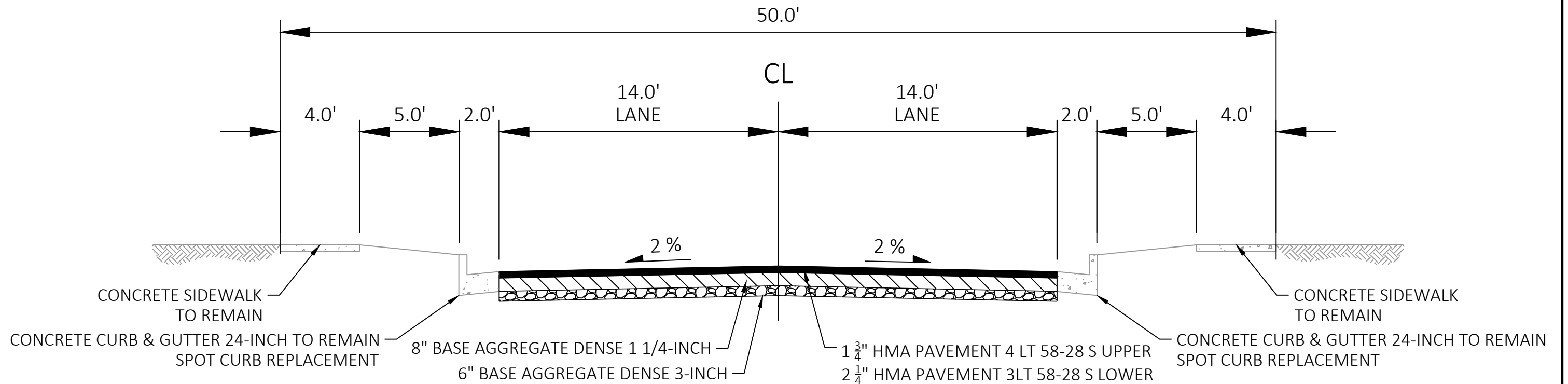
	HYDROLOGIC SOIL GROUP											
	A			B			C			D		
	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)		
LAND USE:	0 - 2	2 - 6	6 & OVER	0 - 2	2 - 6	6 & OVER	0 - 2	2 - 6	6 & OVER	0 - 2	2 - 6	6 & OVER
ROW CROPS	.08	.16	.22	.12	.20	.27	.15	.24	.33	.19	.28	.38
MEDIAN STRIP-TURF	.19	.20	.24	.19	.22	.26	.20	.23	.30	.20	.25	.30
SIDE SLOPE TURF			.25			.27			.28			.30
			.32			.34			.36			.38
PAYMENT:												
ASPHALT:	.70 - .95											
CONCRETE:	.80 - .95											
BRICK:	.70 - .80											
DRIVES, WALKS:	.75 - .85											
ROOFS:	.75 - .95											
GRAVEL ROADS, SHOULDERS:	.40 - .60											

TOTAL PROJECT AREA = 0.58 ACRES
 TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.35 ACRES



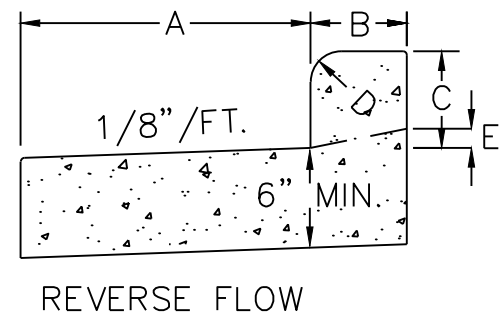
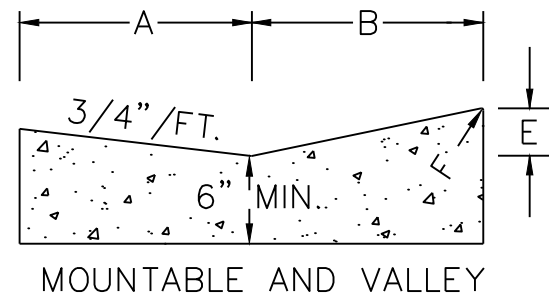
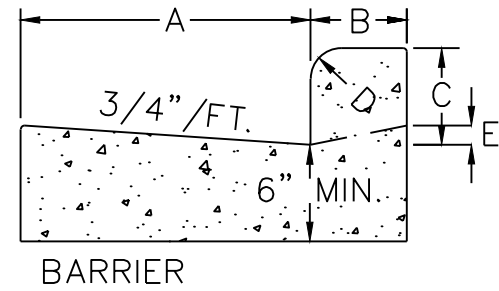
EXISTING TYPICAL SECTION

STA 2+25 TO STA 7+35



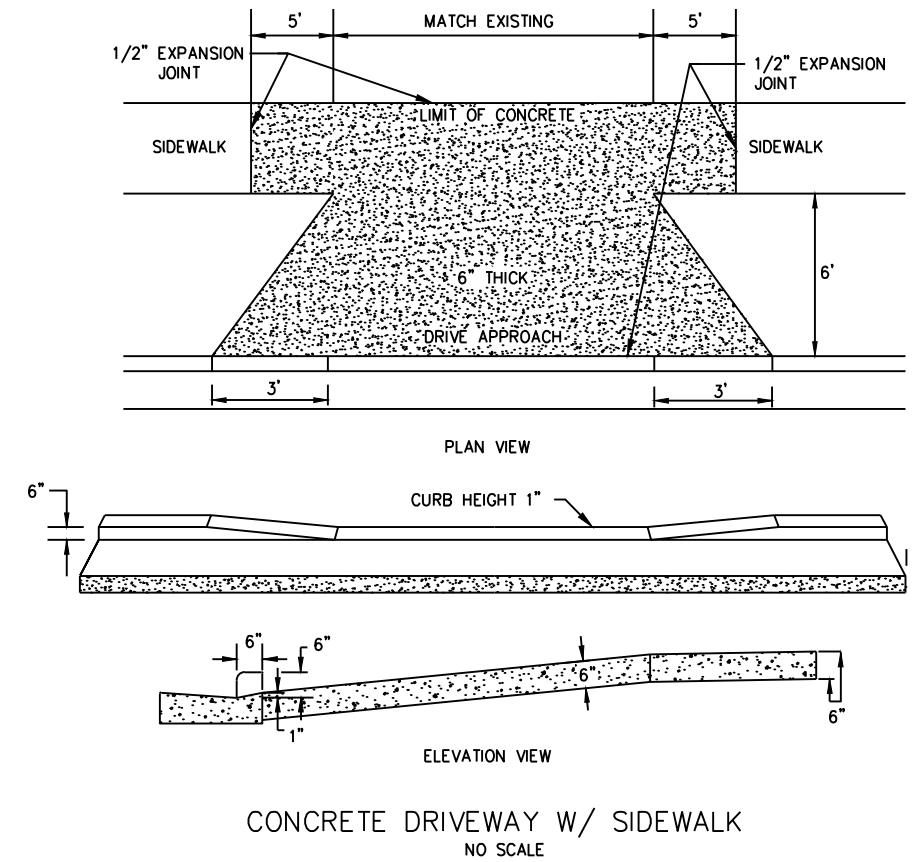
FINISHED TYPICAL SECTION

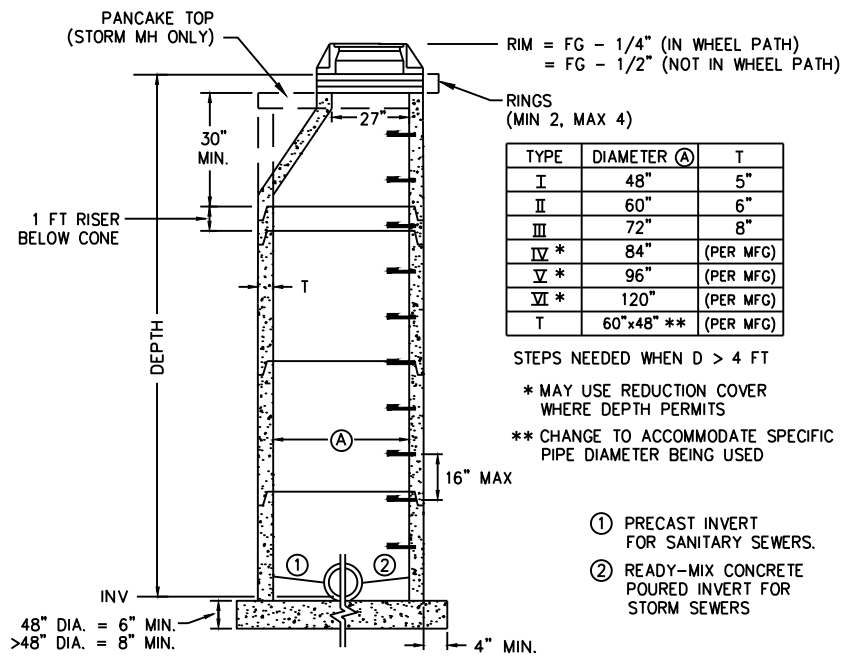
STA 2+25 TO STA 7+35



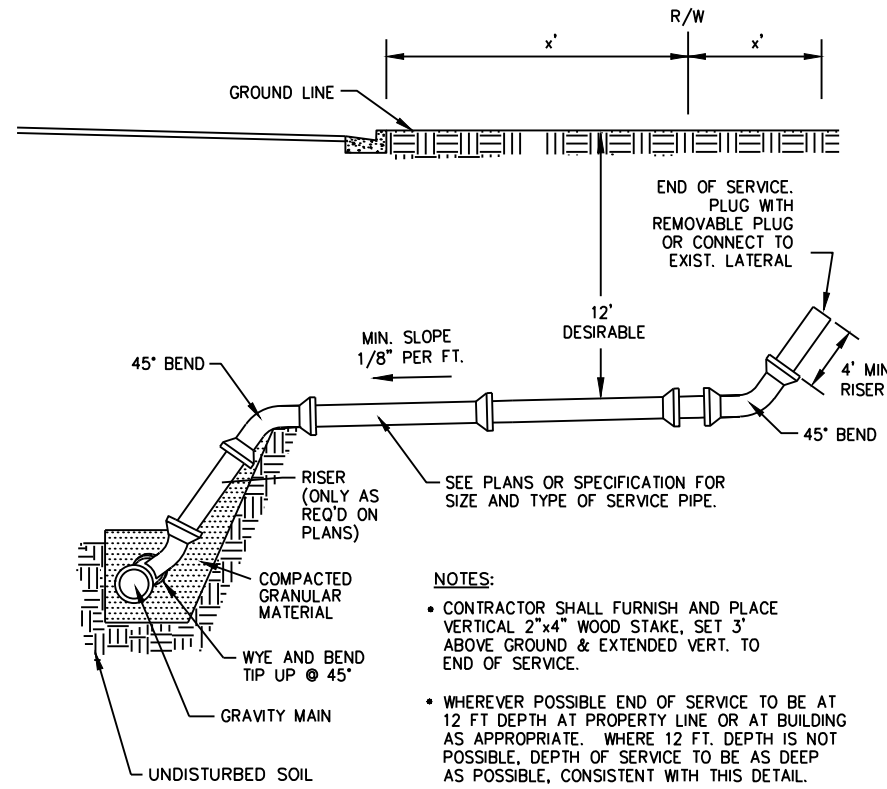
CURB TYPE	A	B	C	D	E	F
BARRIER						
18" B	12"	6"	6"	2"	1.5"	1/2"
24" B	18"	6"	6"	2"	1.5"	1/2"
30" B	24"	6"	6"	2"	1.5"	1/2"
MOUNTABLE						
24" M	12"	12"	-	-	2.50"	1/2"
30" M	18"	12"	-	-	2.75"	1/2"
36" M	24"	12"	-	-	6"	1/2"
VALLEY GUTTER						
36" V	18"	18"	-	-	1.5"	-
REVERSE FLOW						
24" B	18"	6"	6"	2"	1.5"	1/2"

CONCRETE CURB & GUTTER

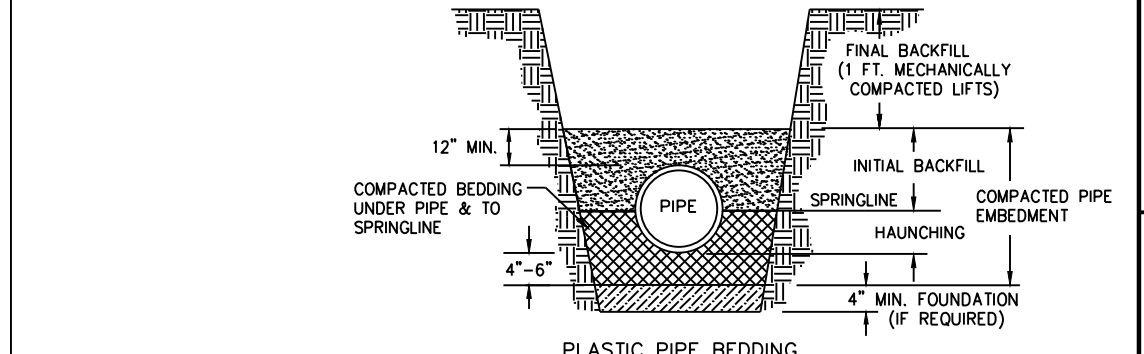




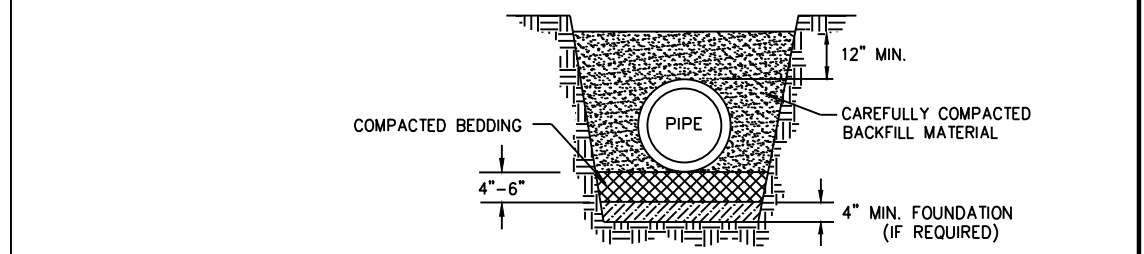
SANITARY MANHOLE
STORM MANHOLE
NO SCALE



SANITARY SEWER LATERAL
NO SCALE

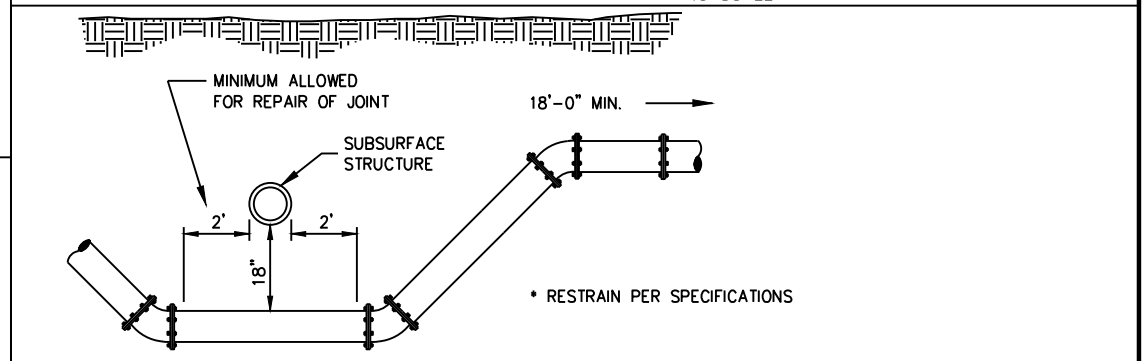


PLASTIC PIPE BEDDING

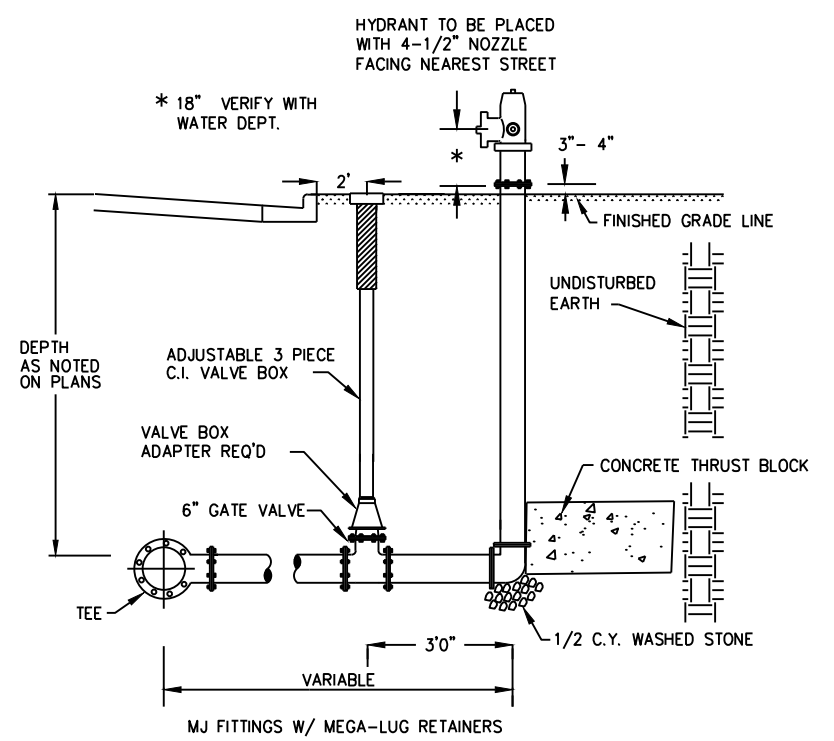


DIP & RCP BEDDING

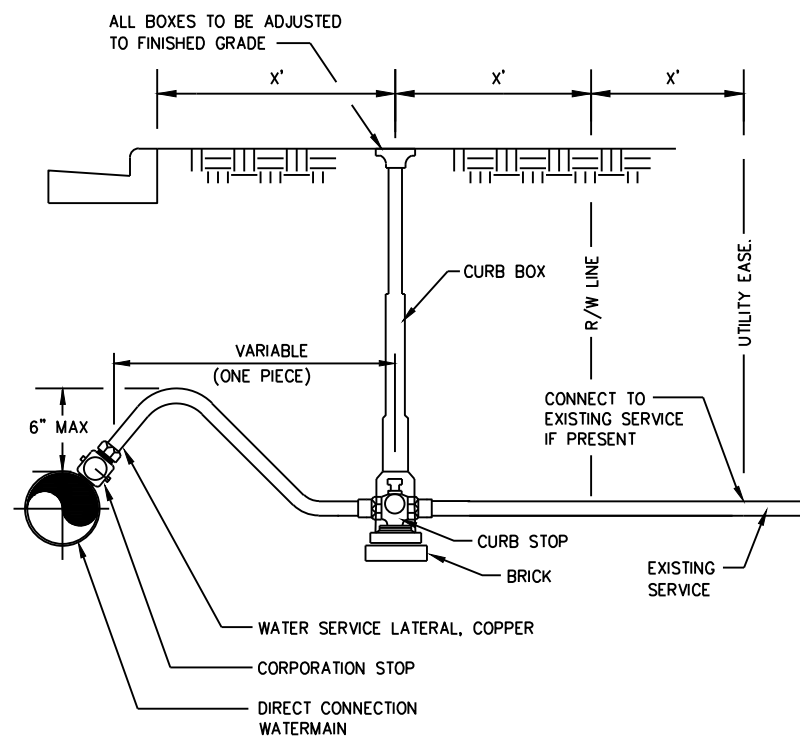
PIPE BEDDING DETAILS
NO SCALE



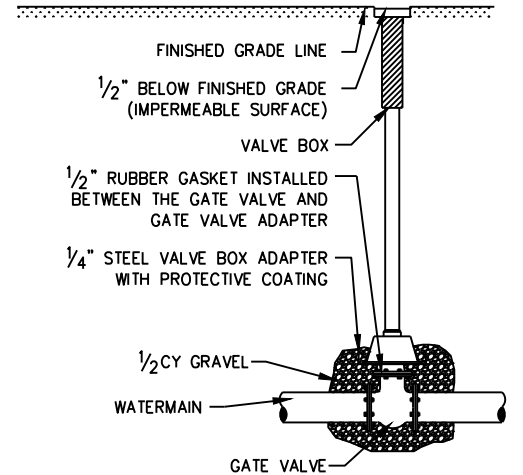
WATERMAIN OFFSET 6" THRU 16"
NO SCALE



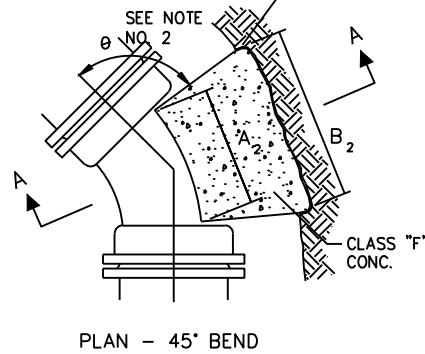
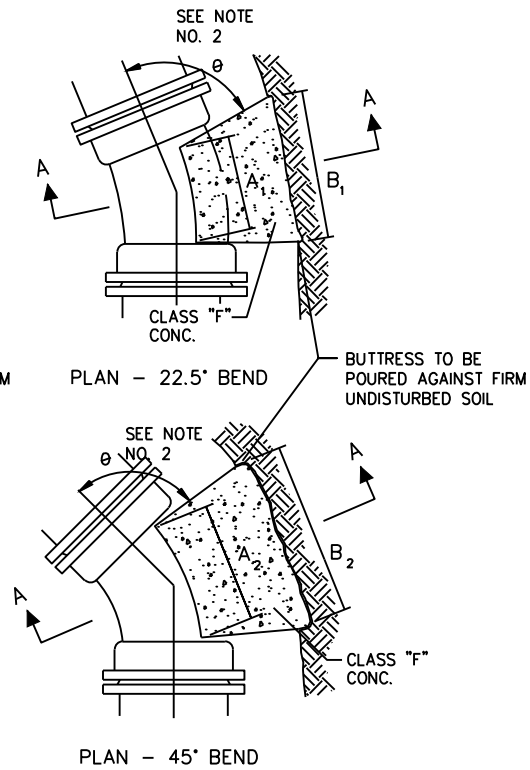
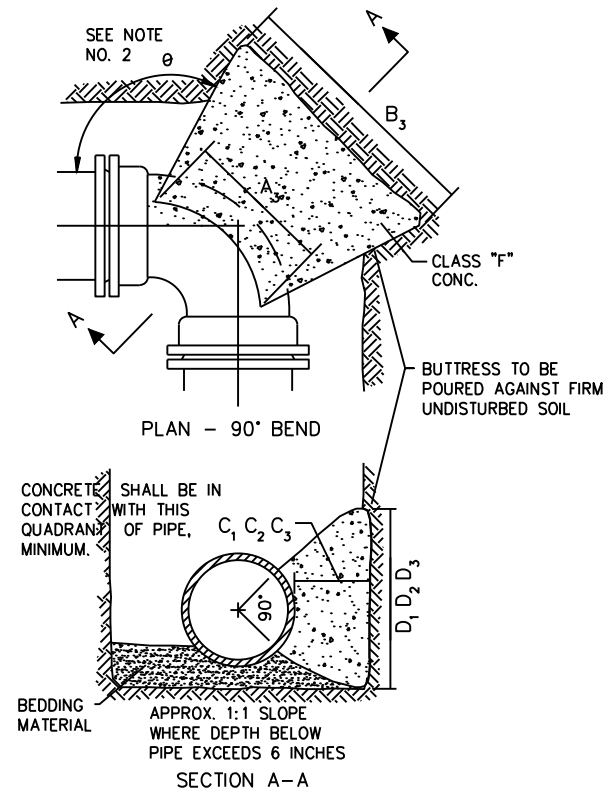
HYDRANT
NO SCALE



WATER SERVICE LATERAL
CORPORATION STOP CURB STOP AND BOX
NO SCALE



CONTROL VALVE AND BOX, GATE
NO SCALE

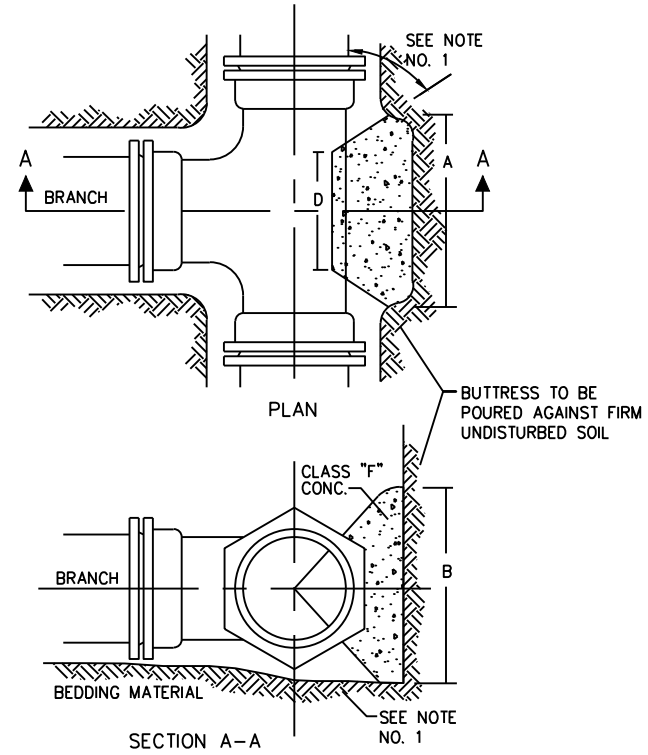


- NOTES:
1. A WATER PRESSURE OF 150 PSI AND AN EARTH RESISTANCE OF 2 TONS/SQ FT
 2. DIMENSIONS C₁ C₂ C₃ SHOULD BE LARGE ENOUGH TO MAKE ANGLE EQUAL TO OR LARGER THAN 45°.
 3. DIMENSIONS A₁ A₂ A₃ SHOULD BE AS LARGE AS POSSIBLE WITHOUT INTERFERING WITH MJ BOLTS.
 4. SHAPE OF BACK OF BUTTRESS MAY VARY AS LONG AS POUR IS AGAINST FIRM, UNDISTURBED EARTH.
 5. ALL IRON PIPE AND FITTINGS SHALL BE WRAPPED IN POLYETHYLENE.

DETAIL FROM:
"STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN, FILE NO. 44"

PIPE SIZE	BUTTRESS DIMENSIONS					
	22.5° BENDS		45° BENDS		90° BENDS	
	B ₁	D ₁	B ₂	D ₂	B ₃	D ₃
6"	1'-0"	1'-0"	1'-0"	1'-0"	1'-4"	1'-2"
8"	1'-0"	1'-0"	1'-4"	1'-2"	1'-10"	1'-6"
12"	1'-4"	1'-4"	1'-10"	1'-10"	2'-8"	2'-3"
16"	1'-10"	1'-8"	2'-6"	2'-4"	3'-10"	2'-10"
20"	2'-4"	2'-0"	3'-3"	2'-10"	5'-0"	3'-4"
24"	2'-10"	2'-4"	4'-0"	3'-3"	6'-4"	3'-10"
30"	3'-6"	3'-0"	5'-4"	3'-10"	8'-0"	4'-8"

BUTTRESS FOR BENDS

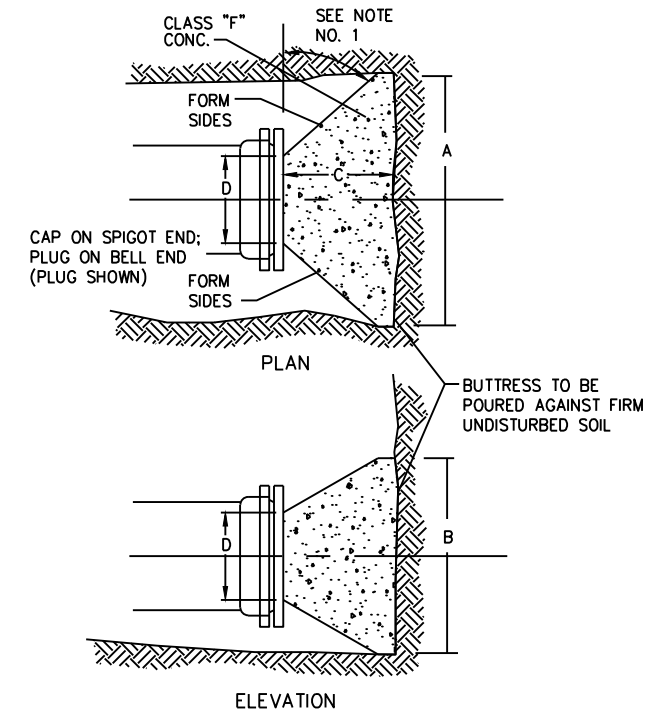


- NOTES:
1. BUTTRESS SIZE IS CONTROLLED BY THE BRANCH PIPE DIAMETER.
 2. DIMENSION "C" SHOULD BE LARGE ENOUGH TO MAKE ANGLE EQUAL TO OR LARGER THAN 45 DEGREES.
 3. CONCRETE SHOULD BEAR ON THIS QUADRANT OF PIPE AS A MINIMUM.
 4. DIMENSION "D" SHOULD BE AS LARGE AS POSSIBLE BUT CONCRETE SHOULD NOT INTERFERE WITH MECHANICAL JOINTS.
 5. BUTTRESS DIMENSIONS ARE BASED ON A SOIL RESISTANCE OF TWO TONS PER SQ FT AND A WATER PRESSURE OF 150 PSI
 6. ALL IRON PIPE AND FITTINGS SHALL BE WRAPPED IN POLYETHYLENE.

BUTTRESS DIMENSIONS				
BD	A	B	C	D
4"	0"-10"	1'-6"		
6"	1'-6"	1'-8"		
8"	1'-9"	2'-4"	SEE NOTE NO. 2	SEE NOTE NO. 4
10"	1'-9"	2'-4"		
12"	2'-3"	2'-7"		
16"	3'-8"	2'-10"		
20"	5'-0"	3'-10"		
24"	5'-4"	4'-8"		

BD = BRANCH DIAMETER

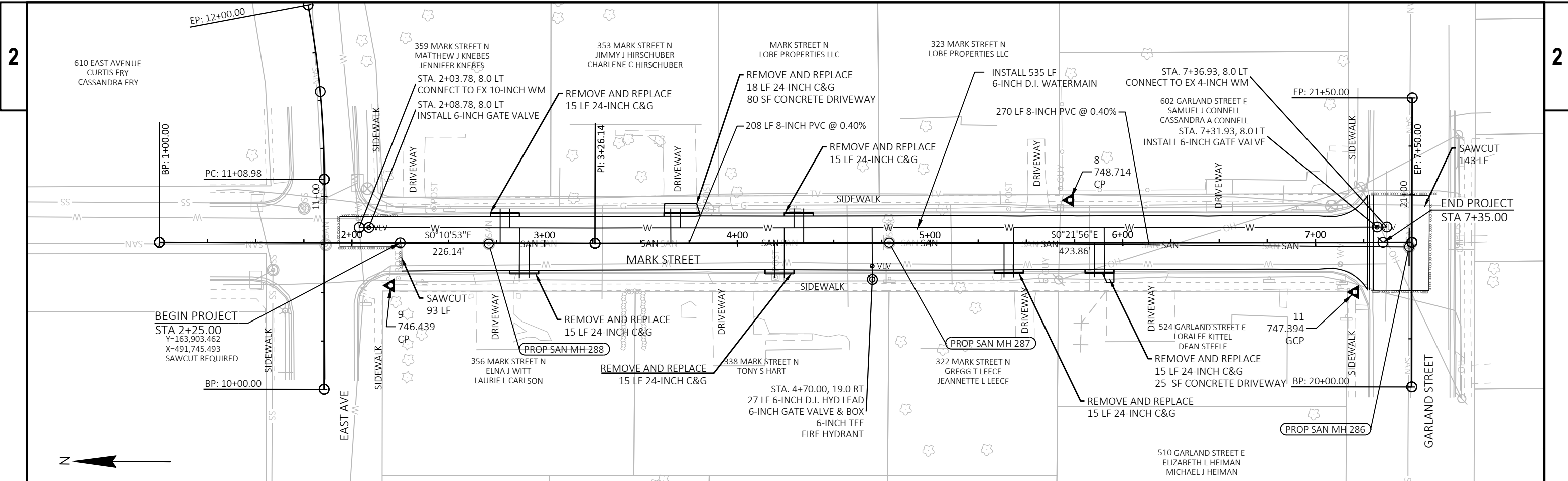
BUTTRESS FOR TEES



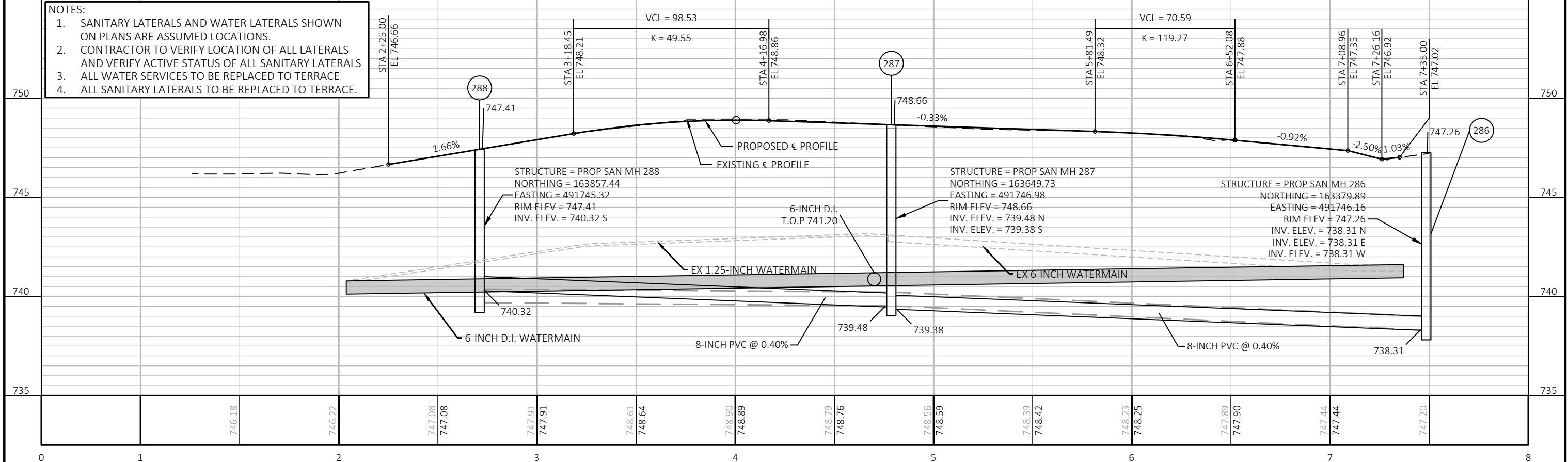
- NOTES:
1. DIMENSION "C" SHOULD BE LARGE ENOUGH TO MAKE ANGLE EQUAL TO OR LARGER THAN 45 DEGREES.
 2. DIMENSION "D" EQUALS APPROX. I.D. OF PIPE LESS 2". AN EFFORT SHOULD BE MADE TO PREVENT THE CONCRETE FROM COVERING THE MJ BOLTS.
 3. WHERE BUTTRESSES ARE NOT POSSIBLE BECAUSE OF POOR SOIL CONDITIONS OR LACK OF ROOM, STRAPPING SHALL BE PERMITTED.
 4. BUTTRESS DIMENSIONS ARE BASED ON A SOIL RESISTANCE OF TWO TONS PER SQ FT. AND A WATER PRESSURE OF 150 PSI.

BUTTRESS DIMENSIONS				
DIA.	A	B	C	D
4"	1'-5"	1'-0"		
6"	1'-7"	1'-9"		
8"	2'-4"	2'-0"	SEE NOTE NO. 1	SEE NOTE NO. 2
10"	2'-4"	2'-0"		
12"	2'-8"	2'-6"		
16"	3'-4"	3'-6"		
20"	3'-10"	4'-9"		
24"	4'-8"	5'-6"		

BUTTRESS FOR DEAD ENDS



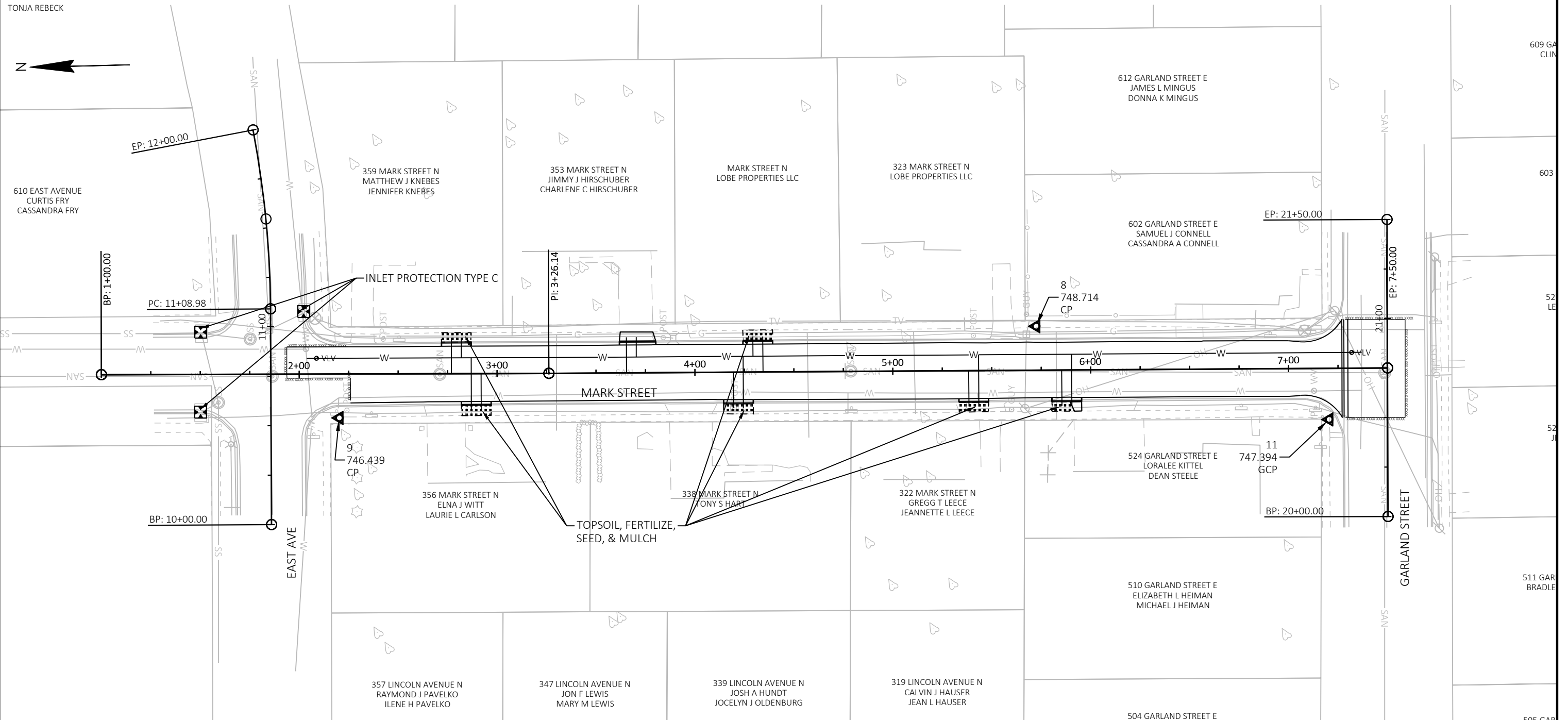
- NOTES:
- SANITARY LATERALS AND WATER LATERALS SHOWN ON PLANS ARE ASSUMED LOCATIONS.
 - CONTRACTOR TO VERIFY LOCATION OF ALL LATERALS AND VERIFY ACTIVE STATUS OF ALL SANITARY LATERALS
 - ALL WATER SERVICES TO BE REPLACED TO TERRACE
 - ALL SANITARY LATERALS TO BE REPLACED TO TERRACE.




PROJECT NO: 5991-00-27	HWY: MARK STREET	COUNTY: LA CROSSE	PLAN DETAIL - SANITARY & WATERMAIN	SHEET	E
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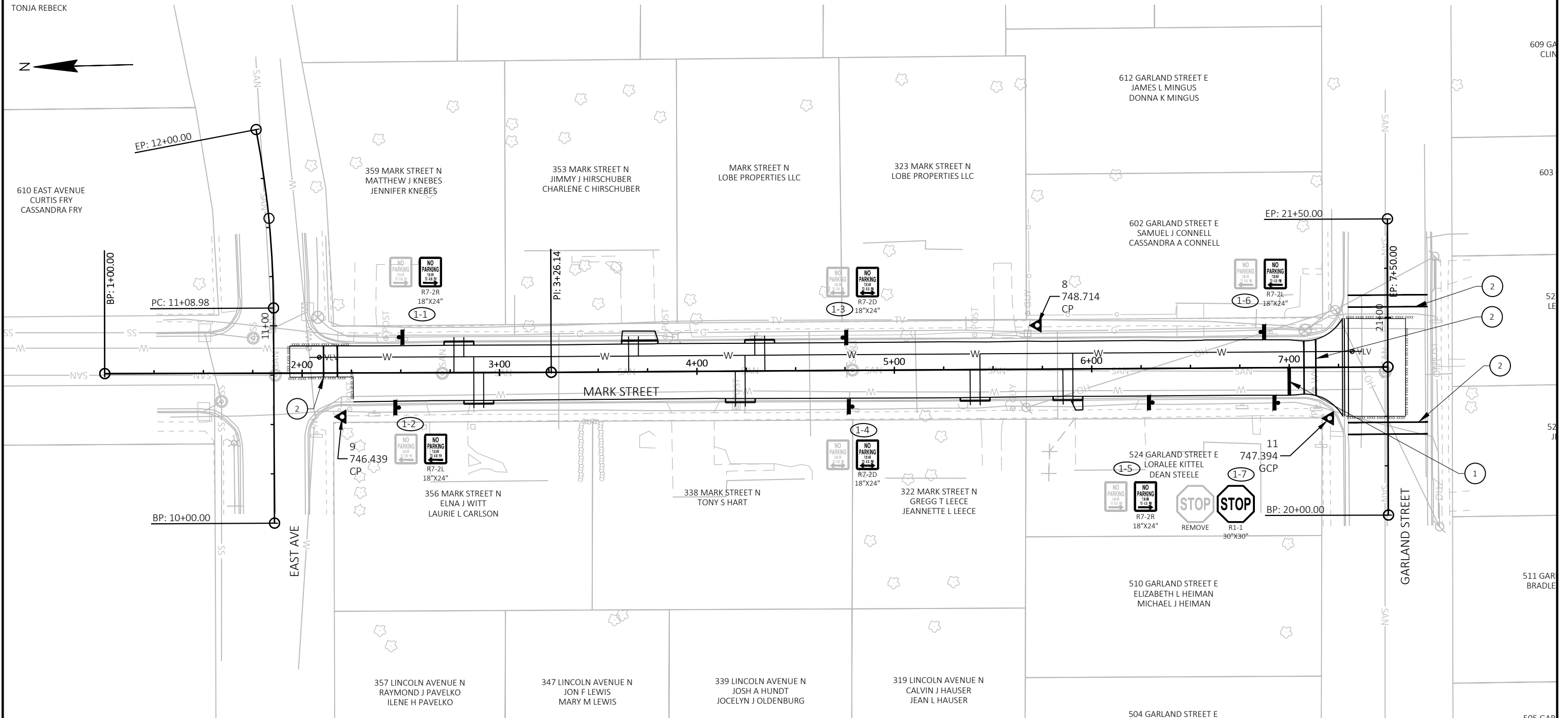
LEGEND

	INLET PROTECTION
	TOPSOIL, FERTILIZE, SEED, & MULCH



PROJECT NO: 5991-00-26	HWY: MARK STREET	COUNTY: LA CROSSE	EROSION CONTROL	SHEET	E
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LEGEND			
①	MARKING STOP LINE EPOXY 18-INCH (WHITE)		EXISTING SIGN MOUNTED ON SINGLE POST
②	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)		PROPOSED SIGN MOUNTED ON SINGLE POST
			SIGN NUMBER



PROJECT NO: 5991-00-26	HWY: MARK STREET	COUNTY: LA CROSSE	PAVEMENT MARKING	SHEET	E
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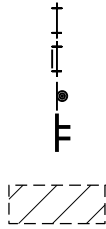
GENERAL NOTES

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 (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS.

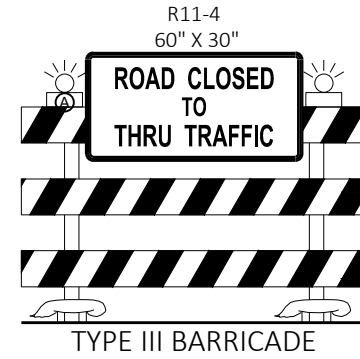
ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED.

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

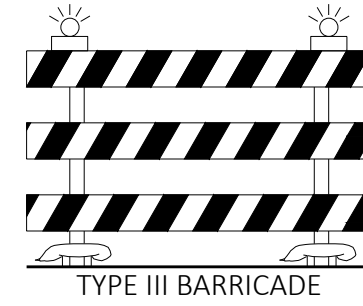


LEGEND

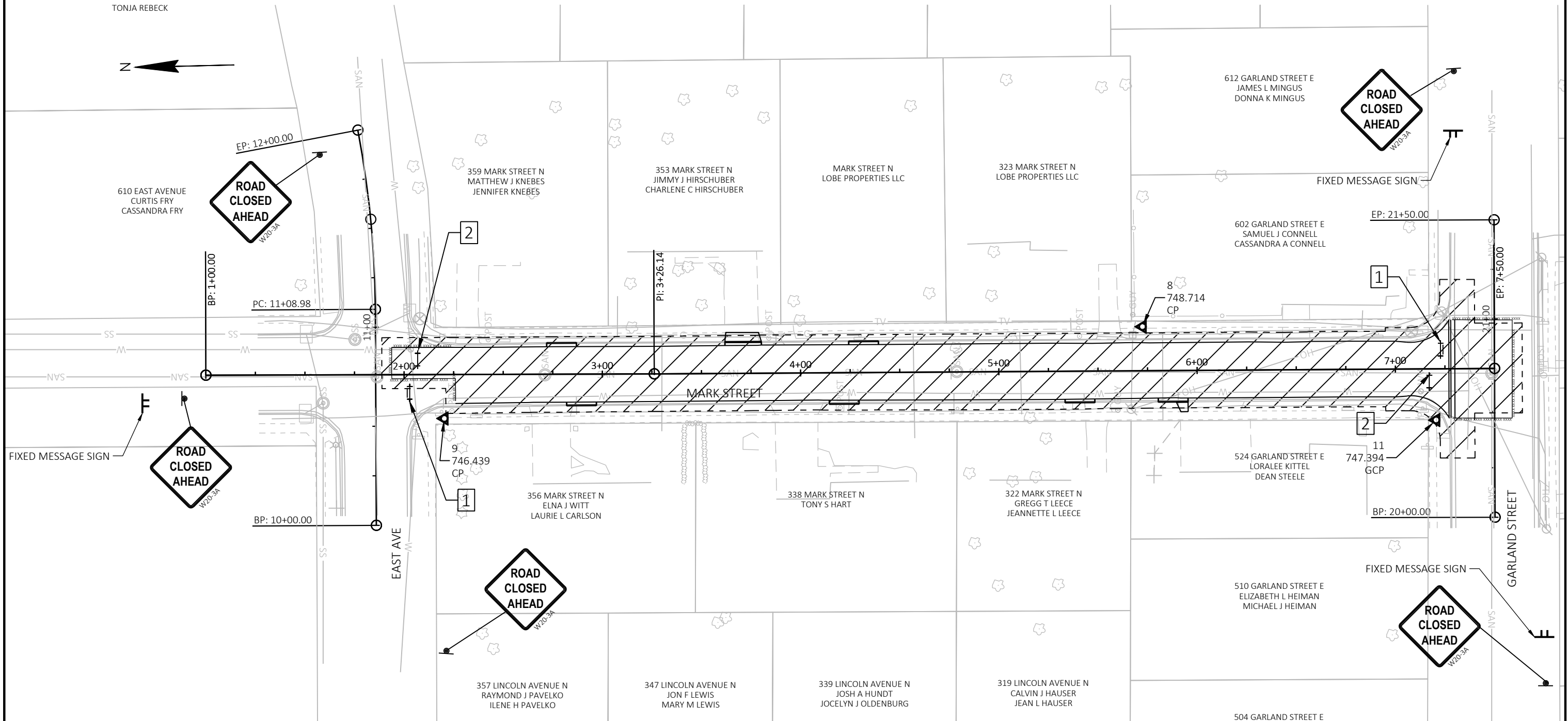
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- FIXED MESSAGE SIGN
- WORK AREA



1



2



PROJECT NO: 5991-00-26	HWY: MARK STREET	COUNTY: LA CROSSE	TRAFFIC CONTROL	SHEET	E
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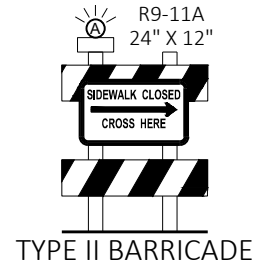
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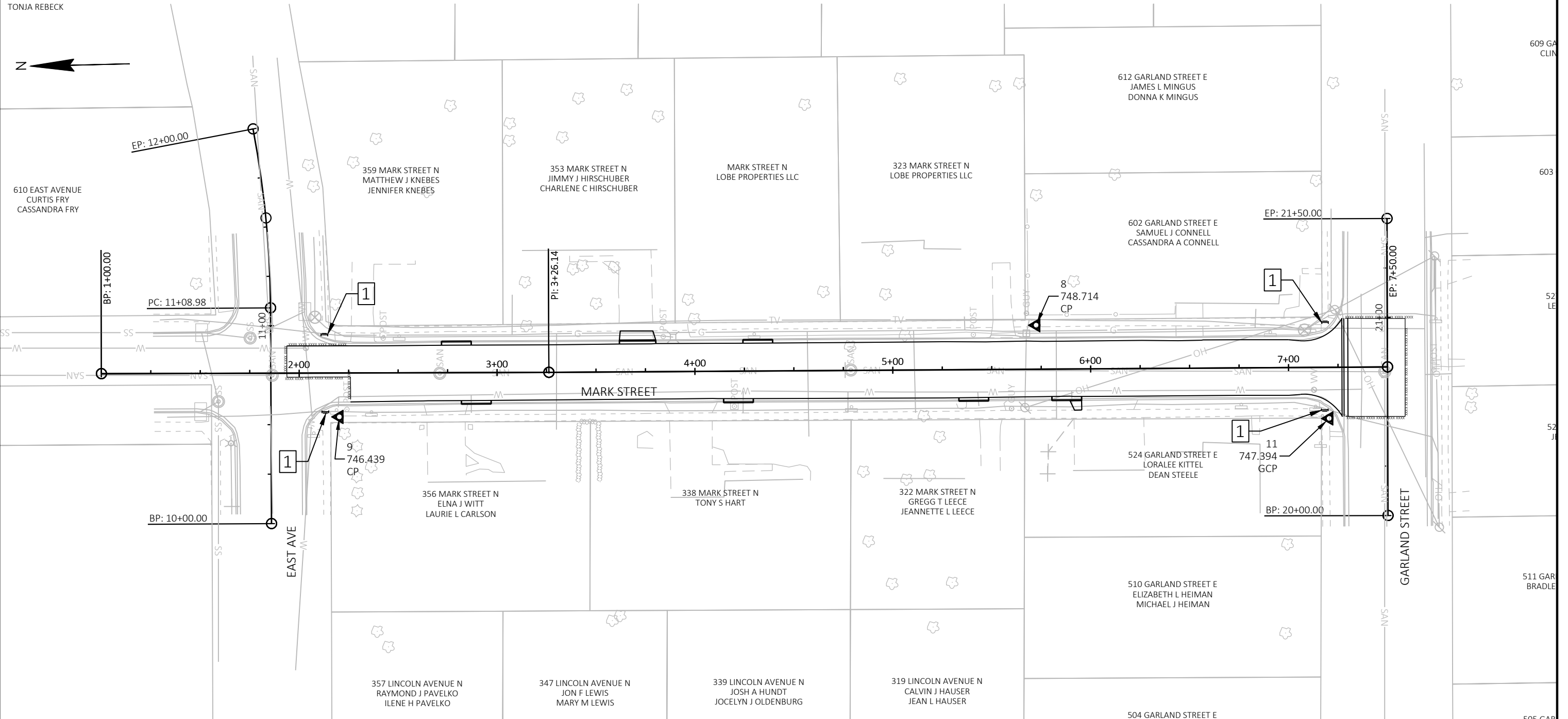
ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED.

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



LEGEND
1 TYPE II BARRICADE WITH ATTACHED SIGN

1



Estimate Of Quantities

Line	Item	Item Description	Unit	5991-00-26		5991-00-27	
				Total	Qty	Total	Qty
0002	204.0100	Removing Concrete Pavement	SY	12.000	12.000		
0004	204.0140	Removing Gutter	LF	50.000	50.000		
0006	204.0150	Removing Curb & Gutter	LF	108.000	108.000		
0008	205.0100	Excavation Common	CY	850.000	850.000		
0010	213.0100	Finishing Roadway (project) 01. 5991-00-26	EACH	1.000	1.000		
0012	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	786.000	786.000		
0014	305.0130	Base Aggregate Dense 3-Inch	TON	590.000	590.000		
0016	416.0610	Drilled Tie Bars	EACH	4.000	4.000		
0018	455.0605	Tack Coat	GAL	124.000	124.000		
0020	460.2000	Incentive Density HMA Pavement	DOL	1,100.000	1,100.000		
0022	460.5223	HMA Pavement 3 LT 58-28 S	TON	221.000	221.000		
0024	460.5224	HMA Pavement 4 LT 58-28 S	TON	172.000	172.000		
0026	602.0810	Concrete Driveway 6-Inch	SY	12.000	12.000		
0028	611.0535	Manhole Covers Type J-Special	EACH	3.000		3.000	
0030	619.1000	Mobilization	EACH	1.000	1.000		
0032	624.0100	Water	MGAL	21.000	21.000		
0034	625.0100	Topsoil	SY	47.000	47.000		
0036	627.0200	Mulching	SY	47.000	47.000		
0038	628.1905	Mobilizations Erosion Control	EACH	1.000	1.000		
0040	628.1910	Mobilizations Emergency Erosion Control	EACH	1.000	1.000		
0042	628.7015	Inlet Protection Type C	EACH	3.000	3.000		
0044	629.0210	Fertilizer Type B	CWT	0.100	0.100		
0046	630.0140	Seeding Mixture No. 40	LB	1.000	1.000		
0048	630.0500	Seed Water	MGAL	1.000	1.000		
0050	634.0814	Posts Tubular Steel 2x2-Inch X 14-FT	EACH	7.000	7.000		
0052	637.2210	Signs Type II Reflective H	SF	24.000	24.000		
0054	638.2602	Removing Signs Type II	EACH	7.000	7.000		
0056	638.3000	Removing Small Sign Supports	EACH	7.000	7.000		
0058	642.5001	Field Office Type B	EACH	1.000	1.000		
0060	643.0410	Traffic Control Barricades Type II	DAY	180.000	180.000		
0062	643.0420	Traffic Control Barricades Type III	DAY	220.000	220.000		
0064	643.0705	Traffic Control Warning Lights Type A	DAY	675.000	675.000		
0066	643.0900	Traffic Control Signs	DAY	565.000	565.000		
0068	643.1000	Traffic Control Signs Fixed Message	SF	36.000	36.000		
0070	643.5000	Traffic Control	EACH	1.000	1.000		
0072	646.6120	Marking Stop Line Epoxy 18-Inch	LF	14.000	14.000		
0074	646.7420	Marking Crosswalk Epoxy Transverse Line 6-Inch	LF	248.000	248.000		
0076	650.4500	Construction Staking Subgrade	LF	510.000	510.000		
0078	650.5000	Construction Staking Base	LF	510.000	510.000		
0080	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	158.000	158.000		
0082	650.9911	Construction Staking Supplemental Control (project) 01. 5991-00-26	EACH	1.000	1.000		
0084	690.0150	Sawing Asphalt	LF	200.000	200.000		
0086	690.0250	Sawing Concrete	LF	61.000	61.000		
0088	740.0440	Incentive IRI Ride	DOL	400.000	400.000		
0090	SPV.0060	Special 01. 8"x6" PVC Sewer Wye	EACH	7.000		7.000	
0092	SPV.0060	Special 02. Reconnect Sewer Pipe	EACH	2.000		2.000	
0094	SPV.0060	Special 03. 6" Watermain Cut-in Tee	EACH	2.000		2.000	
0096	SPV.0060	Special 04. 6" Watermain Gate Valve & Box	EACH	3.000		3.000	
0098	SPV.0060	Special 05. 1"Water Service Corporation Valve	EACH	7.000		7.000	

Estimate Of Quantities

Line	Item	Item Description	Unit	Total	5991-00-26 5991-00-27	
					Qty	Qty
0100	SPV.0060	Special 06. 1" Water Service Curb Stop Valve & Box	EACH	7.000		7.000
0102	SPV.0060	Special 07. Fire Hydrant	EACH	1.000		1.000
0104	SPV.0060	Special 08. Construction Staking Water Main Project 5991-00-27	EACH	1.000		1.000
0106	SPV.0060	Special 09. Construction Staking Sanitary Sewer Project 5991-00-27	EACH	1.000		1.000
0108	SPV.0090	Special 01. Concrete Curb & Gutter 24-Inch Type D	LF	108.000	108.000	
0110	SPV.0090	Special 02. 8" PVC Sewer Pipe	LF	486.000		486.000
0112	SPV.0090	Special 03. 6" PVC Sewer Lateral Pipe	LF	126.000		126.000
0114	SPV.0090	Special 04. 6" Ductile Iron Watermain Pipe	LF	562.000		562.000
0116	SPV.0090	Special 05. 1" Copper Water Service Pipe	LF	134.000		134.000
0118	SPV.0090	Special 06. Televiser Sanitary Sewer	LF	478.000		478.000
0120	SPV.0090	Special 07. Valley Gutter 36-Inch	LF	50.000	50.000	
0122	SPV.0200	Special 01. 4' Diameter Sanitary Sewer Precast Manhole	VF	25.000		25.000

3

3

REMOVALS

CATEGORY	STATION	SIDE	LOCATION	204.0100	204.0140	204.0150	REMARKS
				REMOVING CONCRETE PAVEMENT SY	REMOVING GUTTER LF	REMOVING CURB & GUTTER LF	
0010	2+97	LT	MARK STREET	-	-	15	
0010	2+89	RT	MARK STREET	-	-	15	
0010	3+71	LT	MARK STREET	9	-	18	
0010	4+22	RT	MARK STREET	-	-	15	
0010	4+32	LT	MARK STREET	-	-	15	
0010	5+41	RT	MARK STREET	-	-	15	
0010	5+89	RT	MARK STREET	3	-	15	
0010	7+30	LT&RT	MARK STREET	-	50	-	
TOTAL 0010				12	50	108	

EXCAVATION

CATEGORY	STATION	TO	STATION	LOCATION	205.0100	REMARKS
					EXCAVATION COMMON CY	
0010	2+25	-	7+32	MARK STREET	850	
TOTAL 0010					850	

MISCELLANEOUS

CATEGORY	STATION	TO	STATION	LOCATION	213.0100.01	642.5001	REMARKS
					FINISHING ROADWAY (PROJECT) (01. 5991-00-26) EACH	FIELD OFFICE TYPE B EACH	
0010	2+00	-	7+50	PROJECT	1	1	
TOTAL 0010					1	1	

AGGREGATES

CATEGORY	STATION	TO	STATION	LOCATION	305.0120	305.0130	624.0100	REMARKS
					BASE AGGREGATE DENSE 1 1/4- INCH TON	BASE AGGREGATE DENSE 3-INCH TON	WATER MGAL	
0010	2+00	-	7+50	MARK STREET	786	590	21	PROJECT
TOTAL 0010					786	590	21	

3

3

CONCRETE ITEMS

CATEGORY	STATION	SIDE	LOCATION	416.0610	602.0810	SPV.0090.01	SPV.0090.07	REMARKS
				DRILLED TIE BARS EACH	CONCRETE DRIVEWAY 6-INCH SY	CONCRETE CURB & GUTTER 24-INCH TYPE D) LF	SPECIAL (01. VALLEY GUTTER 36-INCH) LF	
0010	2+97	LT	MARK STREET	-	-	15	-	
0010	2+89	RT	MARK STREET	-	-	15	-	
0010	3+71	LT	MARK STREET	-	9	18	-	
0010	4+22	RT	MARK STREET	-	-	15	-	
0010	4+32	LT	MARK STREET	-	-	15	-	
0010	5+41	RT	MARK STREET	-	-	15	-	
0010	5+89	RT	MARK STREET	-	3	15	-	
0010	7+30	LT & RT	MARK STREET	4	-	-	50	
TOTAL 0010				4	12	108	50	

ASPHALT

CATEGORY	STATION	TO	STATION	LOCATION	455.0605	460.5223	460.5224	REMARKS
					TACK COAT GAL	HMA PAVEMENT 3 LT 58-28 S TON	HMA PAVEMENT 4 LT 58-28 S TON	
0010	2+00	-	7+50	MARK STREET	124	221	172	
TOTAL 0010					124	221	172	

MOBILIZATION

CATEGORY	STATION	TO	STATION	LOCATION	619.1000	REMARKS
					MOBILIZATION EACH	
0010	2+00	-	7+50	PROJECT	1	
TOTAL 0010					1	

PAVEMENT MARKING

CATEGORY	STATION	SIDE	LOCATION	646.6120	646.7420	REMARKS
				MARKING STOP LINE EPOXY 18- INCH LF	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH LF	
0010	2+10	LT	MARK STREET	-	32	CROSS WALK
0010	7+00	RT	MARK STREET	14	-	STOP LINE
0010	7+10	LT & RT	MARK STREET	-	56	CROSS WALK
0010	7+50	LT & RT	GARLAND ST	-	160	CROSS WALK
TOTAL 0010				14	248	

SAWING

CATEGORY	STATION	SIDE	LOCATION	690.0150	690.0250	REMARKS
				SAWING ASPHALT LF	SAWING CONCRETE LF	
0010	1+94	LT & RT	MARK STREET	93	-	BEGIN PROJECT
0010	2+97	LT	MARK STREET	-	4	CURB AND GUTTER
0010	2+89	RT	MARK STREET	-	4	CURB AND GUTTER
0010	3+71	LT	MARK STREET	-	21	CURB AND GUTTER
0010	4+22	RT	MARK STREET	-	4	CURB AND GUTTER
0010	4+32	LT	MARK STREET	-	4	CURB AND GUTTER
0010	5+41	RT	MARK STREET	-	4	CURB AND GUTTER
0010	5+89	RT	MARK STREET	-	14	CURB AND GUTTER
0010	7+35	LT & RT	MARK STREET	107	6	END PROJECT
TOTAL 0010				200	61	

STAKING

CATEGORY	STATION	TO	STATION	LOCATION	SPV.0060.08	SPV.0060.09	REMARKS
					SPECIAL (08. CONSTRUCTION STAKING WATER) EACH	SPECIAL (09. CONSTRUCTION STAKING SANITARY SEWER) EACH	
0010	2+00	-	7+50	PROJECT	1	-	
0020	2+00	-	7+50	PROJECT	-	1	
TOTAL 0010					1	-	
TOTAL 0020					-	1	

SEWER ITEMS

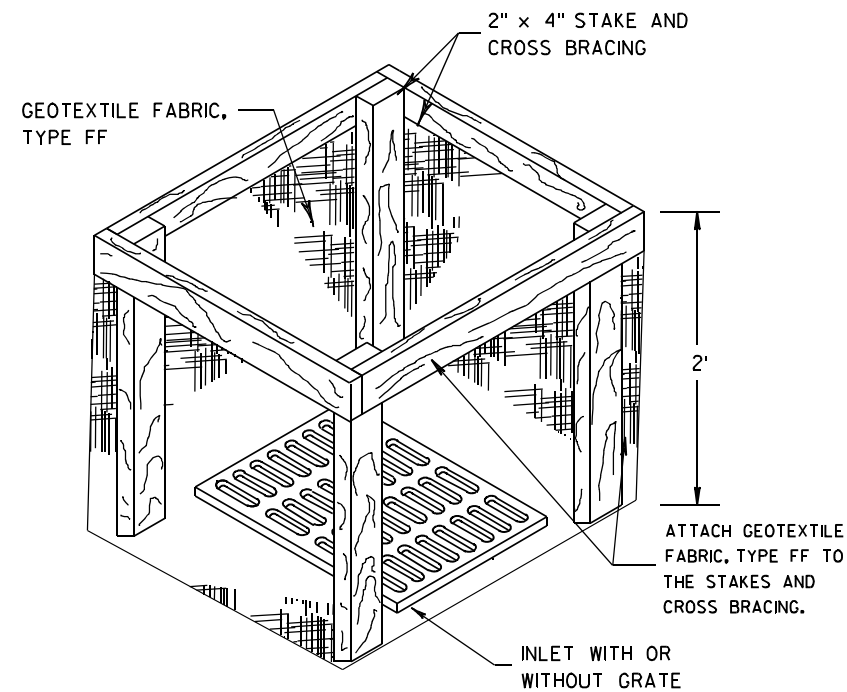
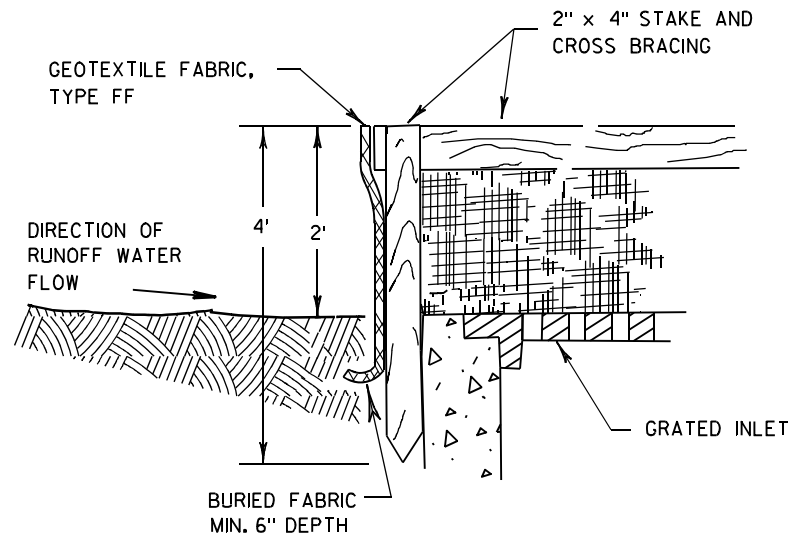
CATEGORY	STATION	TO	STATION	LOCATION	611.0535 MANHOLE COVERS TYPE J- SPECIAL EACH	SPV.0060.01 SPECIAL (01. 8"X6" PVC SEWER WYE) EACH	SPV.0060.02 SPECIAL (02. RECONNECT SEWER PIPE) EACH	SPV.0090.02 SPECIAL (02. 8" PVC SEWER PIPE) LF	SPV.0090.03 SPECIAL (03. 6" PVC SEWER LATERAL PIPE) LF	SPV.0090.06 SPECIAL (06. TELEWISE SANITARY SEWER) LF	SPV.0200.01 SPECIAL (01. 4' DIAMETER SANITARY SEWER PRECAST MANHOLE) VF	REMARKS
0020		2+71		MARK STREET	1	-	-	-	-	-	7.1	
0020	2+71	-	4+79	MARK STREET	-	-	-	208	-	208	-	
0020		4+79		MARK STREET	1	-	-	-	-	-	9.3	
0020	4+79	-	7+48	MARK STREET	-	-	-	270	-	270	-	
0020		7+48		MARK STREET	1	-	2	8	-	-	9.0	
0020		2+77		MARK STREET	-	1	-	-	18	-	-	
0020		2+92		MARK STREET	-	1	-	-	18	-	-	
0020		3+65		MARK STREET	-	1	-	-	18	-	-	
0020		4+19		MARK STREET	-	1	-	-	18	-	-	
0020		4+34		MARK STREET	-	1	-	-	18	-	-	
0020		5+38		MARK STREET	-	1	-	-	18	-	-	
0020		5+85		MARK STREET	-	1	-	-	18	-	-	
				TOTAL 0020	3	7	2	486	126	478	25	

WATER ITEMS

CATEGORY	STATION	TO	STATION	LOCATION	SPV.0060.03 SPECIAL (03. 6" WATERMAIN CUT-IN TEE) EACH	SPV.0060.04 SPECIAL (04. 6" WATERMAIN GATE VALVE & BOX) EACH	SPV.0060.05 SPECIAL (05. 1" WATER SERVICE CORPORATION VALVE) EACH	SPV.0060.06 SPECIAL (06. 1" WATER SERVICE CURB STOP VALVE AND BOX) EACH	SPV.0060.07 SPECIAL (07. FIRE HYDRANT) EACH	SPV.0090.04 SPECIAL (04. 6" DUCTILE IRON WATERMAIN PIPE) LF	SPV.0090.05 SPECIAL (05. 1" COPPER WATER SERVICE PIPE) LF	REMARKS
0010	2+09			MARK STREET	1	1	-	-	-	-	-	
0010	2+04	-	7+37	MARK STREET	-	-	-	-	-	535	-	
0010	7+32			MARK STREET	1	1	-	-	-	-	-	
0010	2+82			MARK STREET	-	-	1	1	-	-	10	
0010	2+87			MARK STREET	-	-	1	1	-	-	26	
0010	3+70			MARK STREET	-	-	1	1	-	-	10	
0010	4+24			MARK STREET	-	-	1	1	-	-	26	
0010	4+29			MARK STREET	-	-	1	1	-	-	10	
0010	4+70			MARK STREET	-	1	-	-	1	27	-	FIRE HYDRANT, 6" TEE INCIDENTAL TO MAIN
0010	5+43			MARK STREET	-	-	1	1	-	-	26	
0010	5+90			MARK STREET	-	-	1	1	-	-	26	
				TOTAL 0010	2	3	7	7	1	562	134	

Standard Detail Drawing List

08E10-02	INLET PROTECTION TYPE A, B, C AND D
13C19-03	HMA LONGITUDINAL JOINTS
15C02-09A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-09B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C11-10B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C33-04	STOP LINE AND CROSSWALK PAVEMENT MARKING
15D30-09A	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-09B	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-09C	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-09I	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-09J	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION



INLET PROTECTION, TYPE A

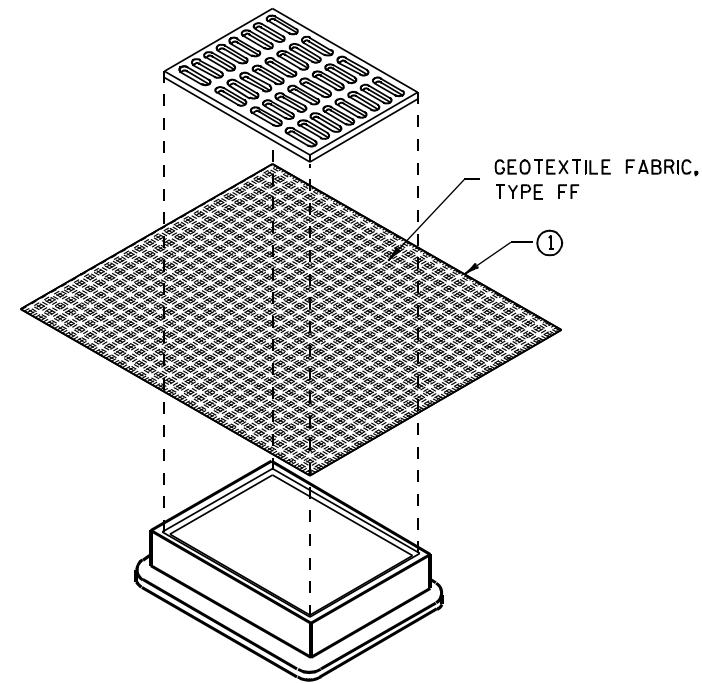
GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

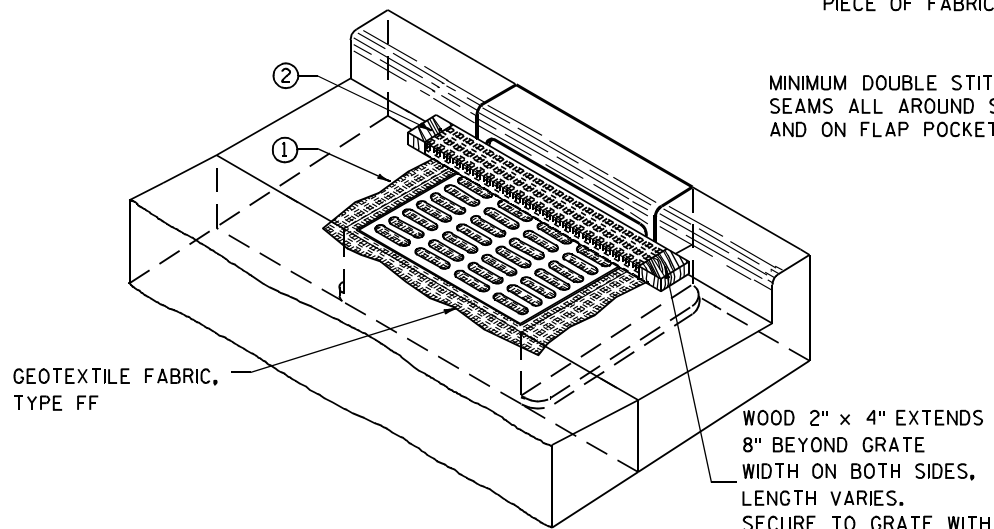
WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

- ① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.
- ② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.
- ③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.



**INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)**

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE C (WITH CURB BOX)

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

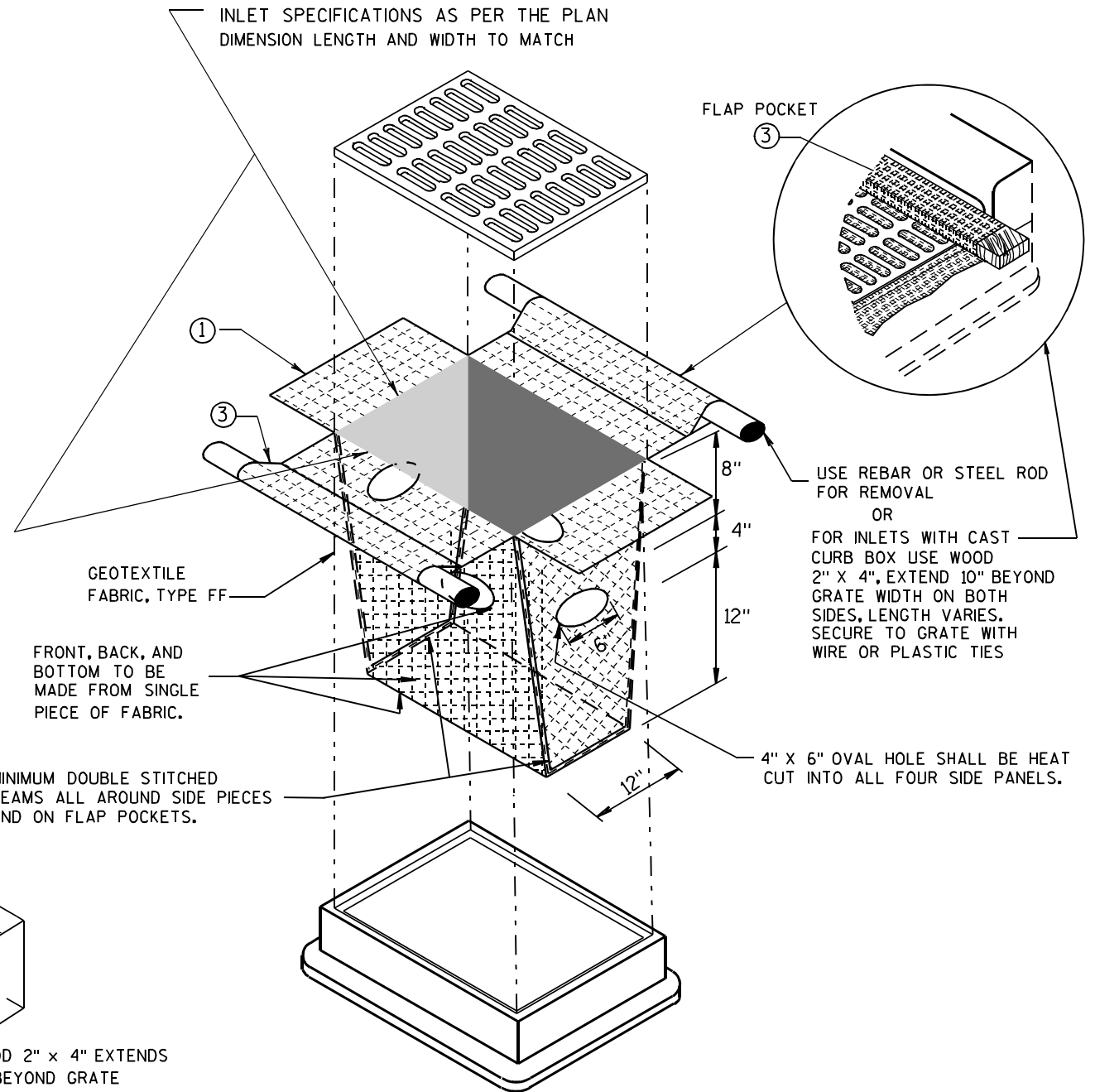
THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.



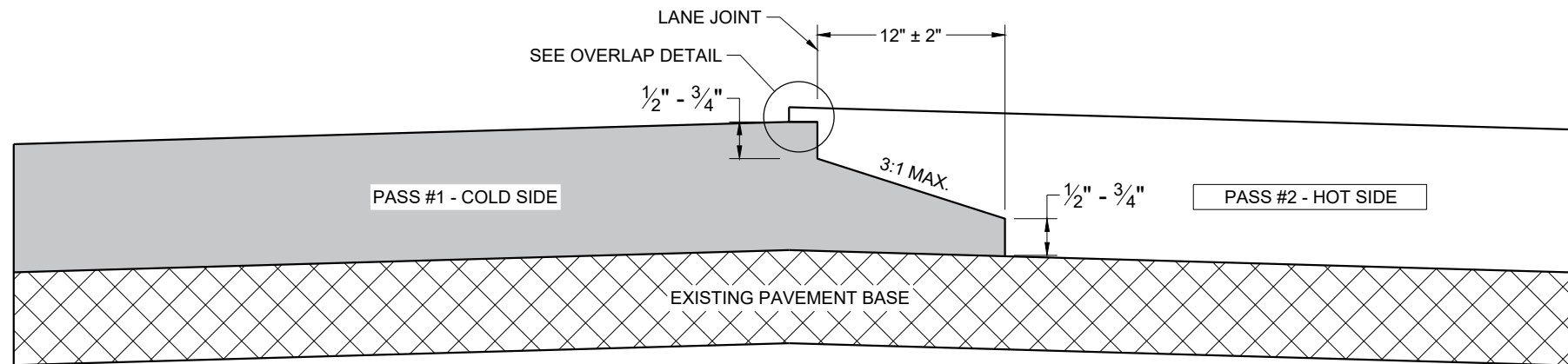
INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH OR WITHOUT A CURB BOX AS PER NOTE ②)

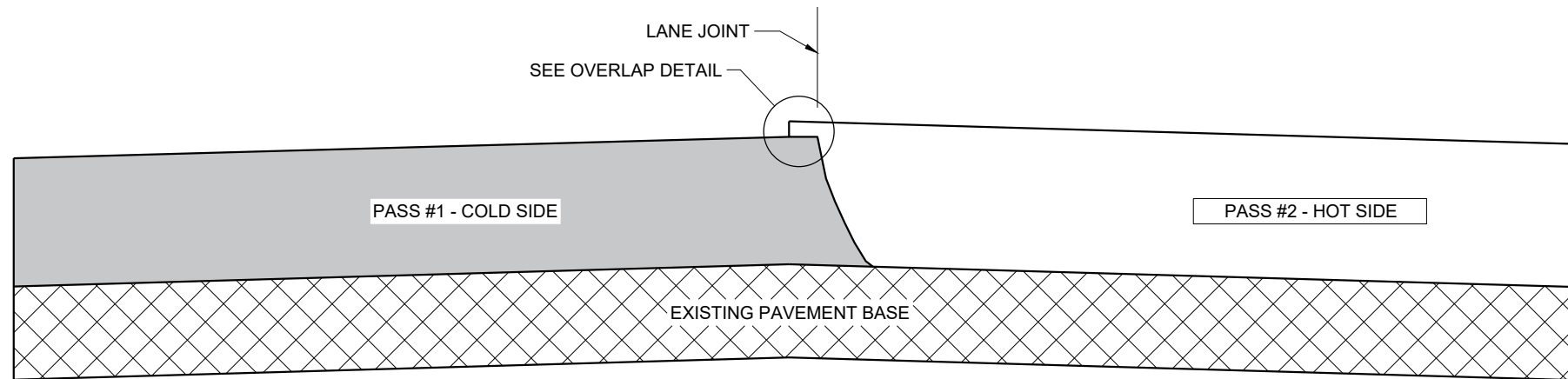
**INLET PROTECTION
TYPE A, B, C, AND D**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

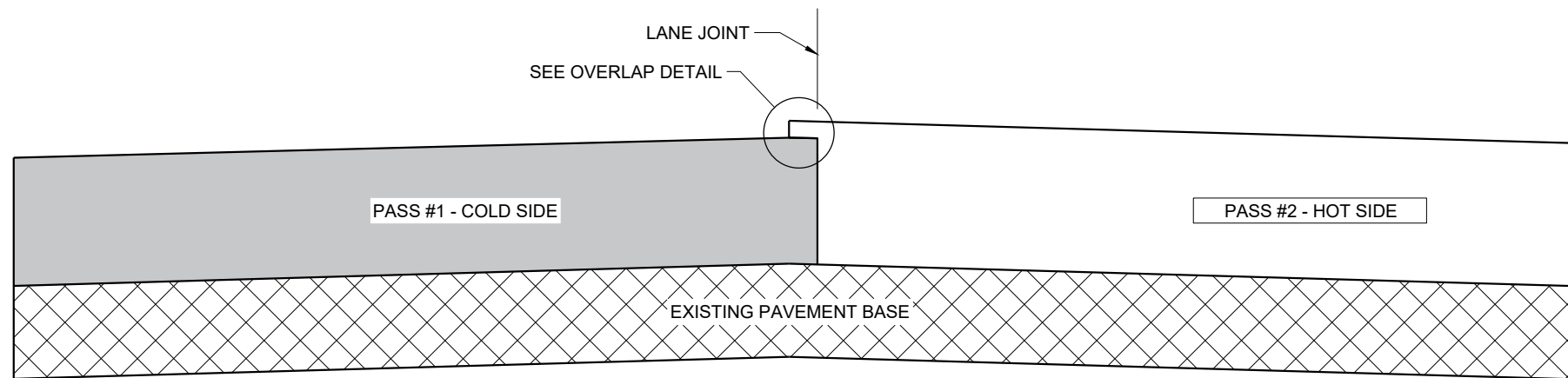
APPROVED
10/16/02 /S/ Beth Connestra
DATE
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA



**TYPICAL PAVEMENT CROSS SECTION
NOTCHED WEDGE JOINT**



**TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT**



**TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT (MILLED)**

GENERAL NOTES

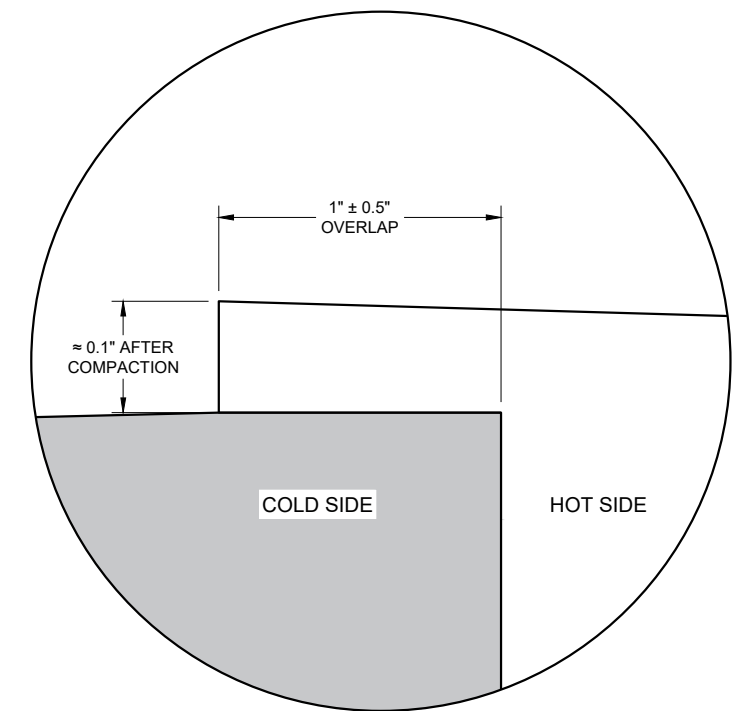
IN ADDITION TO THE DETAILS PROVIDED IN THIS DRAWING, CONFORM TO STANDARD SPECIFICATION 450.3.2.8 FOR WHEN A NOTCHED WEDGE JOINT IS REQUIRED AND FOR GENERAL JOINT CONSTRUCTION REQUIREMENTS.

FOR ALL LONGITUDINAL JOINTS, ENSURE THE PAVER SCREED OVERLAPS THE PREVIOUSLY PLACED PAVEMENT BY $1" \pm 0.5"$ AND THE HOT SIDE OF THE JOINT REMAINS HIGHER THAN THE COLD SIDE BY APPROXIMATELY 0.1" AFTER FINAL COMPACTION. (IT WILL BE FLUSH WHEN PAVING IN ECHELON.)

ONLY REMOVE THE LONGITUDINAL NOTCHED WEDGE JOINT FOR SMA PAVEMENT OR AS DIRECTED BY THE ENGINEER TO ADDRESS SPECIFIC LENGTHS OF JOINT DAMAGED BY TRAFFIC.

WHEN MILLING BACK OR REMOVING ANY LONGITUDINAL JOINT, LIMIT THE MATERIAL REMOVED TO 2" FROM THE TOP NOTCH OR FROM THE VERTICAL JOINT EDGE ON THE COLD SIDE OF THE JOINT.

USE LONGITUDINAL MILLED JOINT AS PLANS SHOW OR THE AS THE ENGINEER DIRECTS.



OVERLAP DETAIL (TYPICAL)

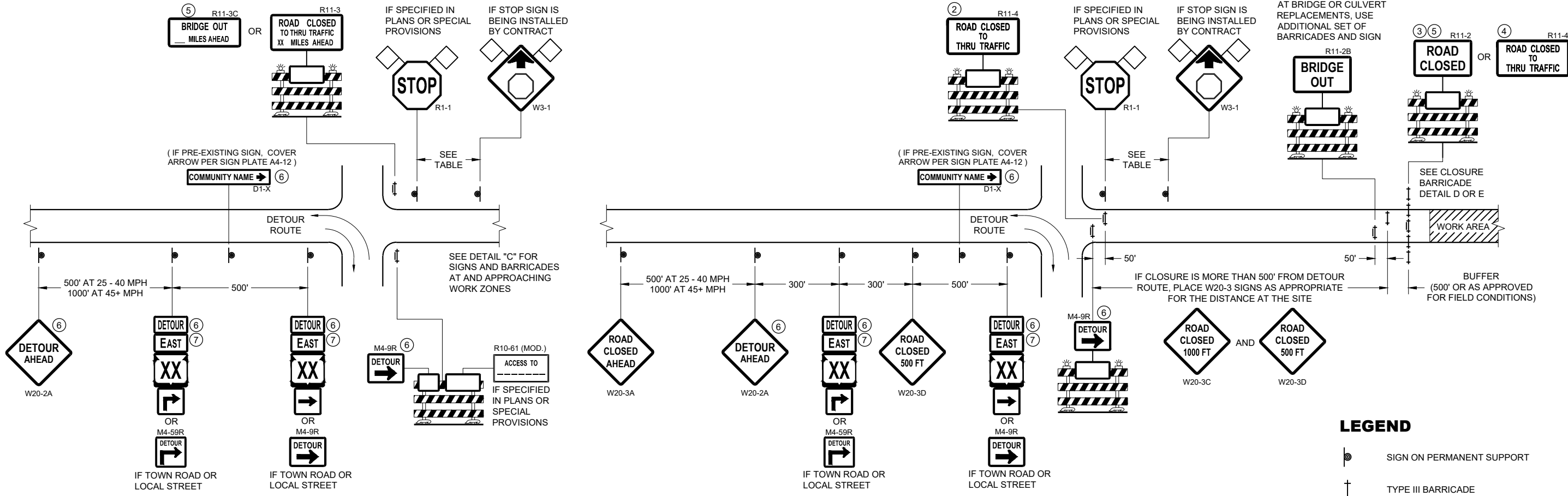
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6

SDD 13C19 - 03

SDD 13C19 - 03

HMA LONGITUDINAL JOINTS	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED November 2020 DATE	/S/ Steven Hefel HMA PAVEMENT ENGINEER
FHWA	



**DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR**

WORK ZONE GREATER THAN OR EQUAL TO 1/2 MILE FROM
DETOUR ROUTE (1000 FEET IF URBAN)

**DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR**

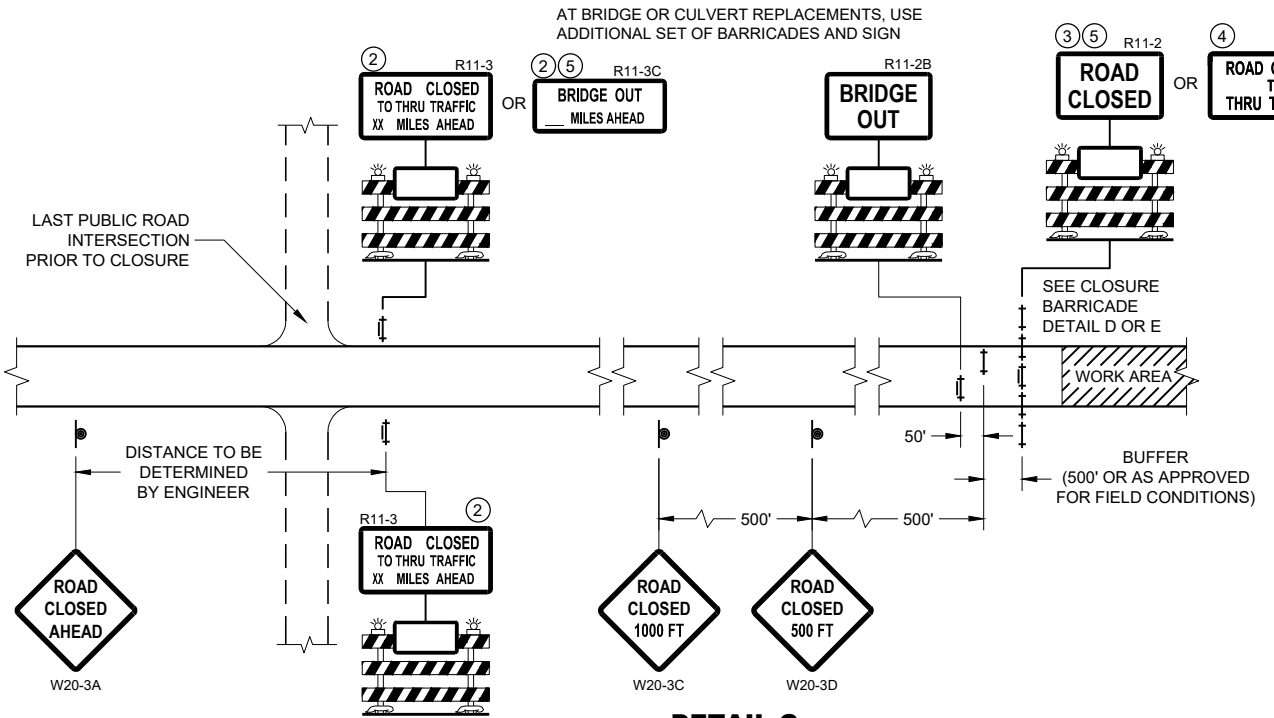
WORK ZONE LESS THAN 1/2 MILE FROM
DETOUR ROUTE (1000 FEET IF URBAN)

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA
- FLAGS, 16" X 16" MIN. (ORANGE)

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

- M4 - 8
- M3 - X
- M1 - 4
- M1 - 6
- M1 - 5A
- M05 - 1
- M06 - 1



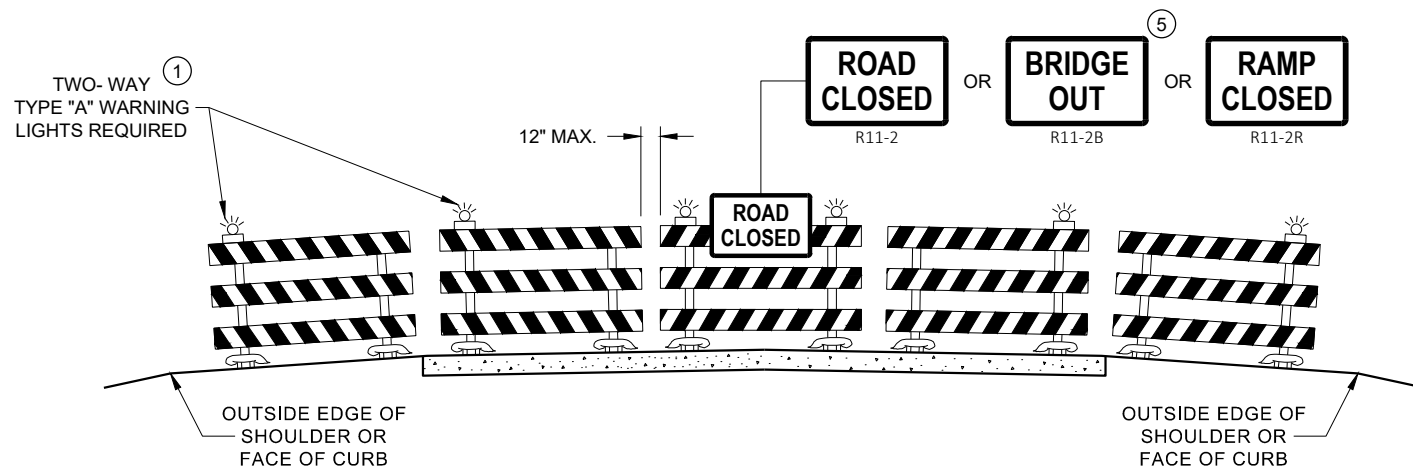
**DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR**

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

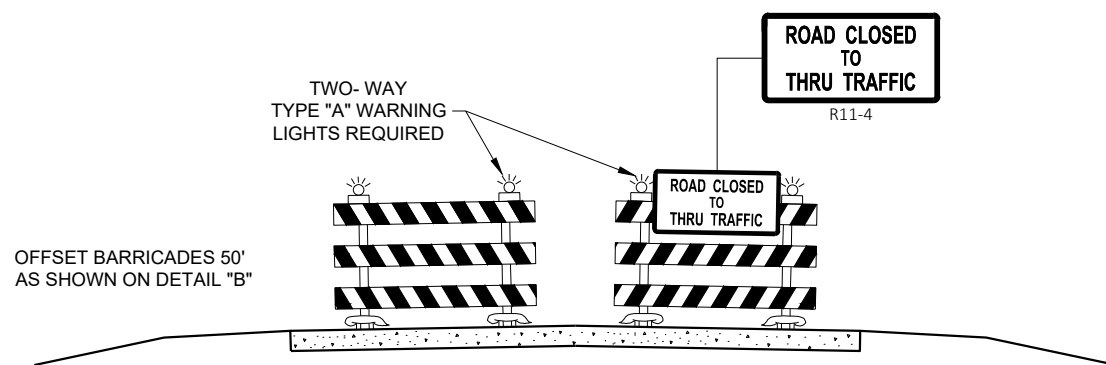
**BARRICADES AND SIGNS
FOR MAINLINE CLOSURES**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER



**DETAIL D
ROAD CLOSURE BARRICADE DETAIL
APPROACH VIEW**



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

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

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

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

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

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

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

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

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

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

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

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

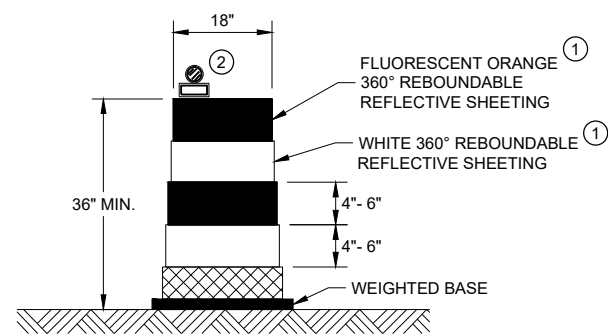
- R11 - 2 SHALL BE 48" X 30"
- R11 - 3 SHALL, R11 - 4 AND R10 - 61 SHALL BE 60" X 30"
- M4 - 9 SHALL BE 30" X 24"
- M3 - X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4 - 8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1 - 4, M1 - 5A AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
- MO5 - 1 AND MO6 - 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- D1 - X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1 - 1 SHALL BE 36" X 36"

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

**BARRICADES AND SIGNS
FOR
VARIOUS CLOSURES**

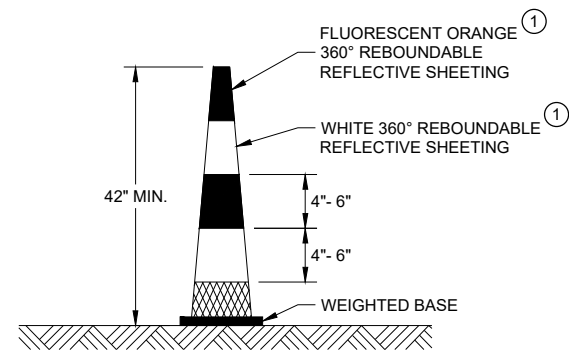
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER



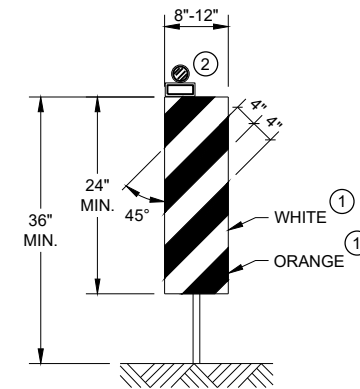
DRUM

BALLAST WIDTHS
RANGE FROM 24"-36"



42" CONE

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

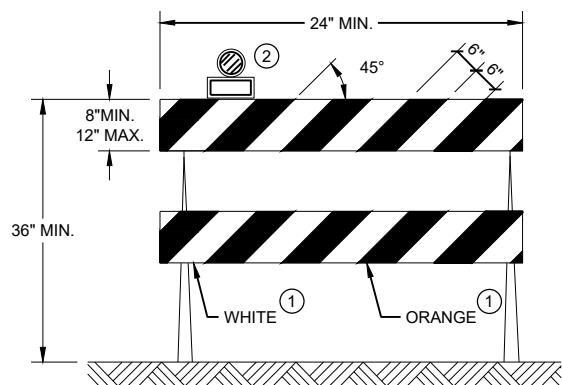


VERTICAL PANEL

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

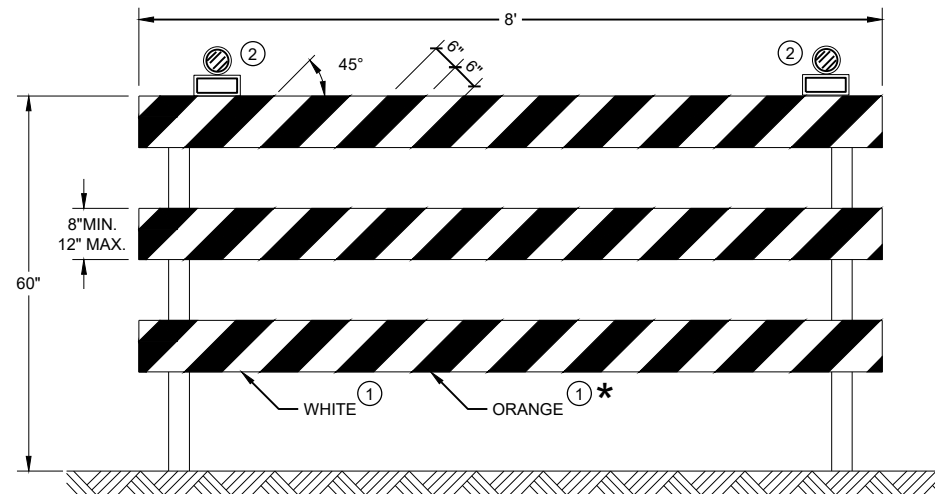
GENERAL NOTES

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



TYPE II BARRICADE

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



TYPE III BARRICADE

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

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

**CHANNELIZING DEVICES
DRUMS, CONES, BARRICADES
AND VERTICAL PANELS**

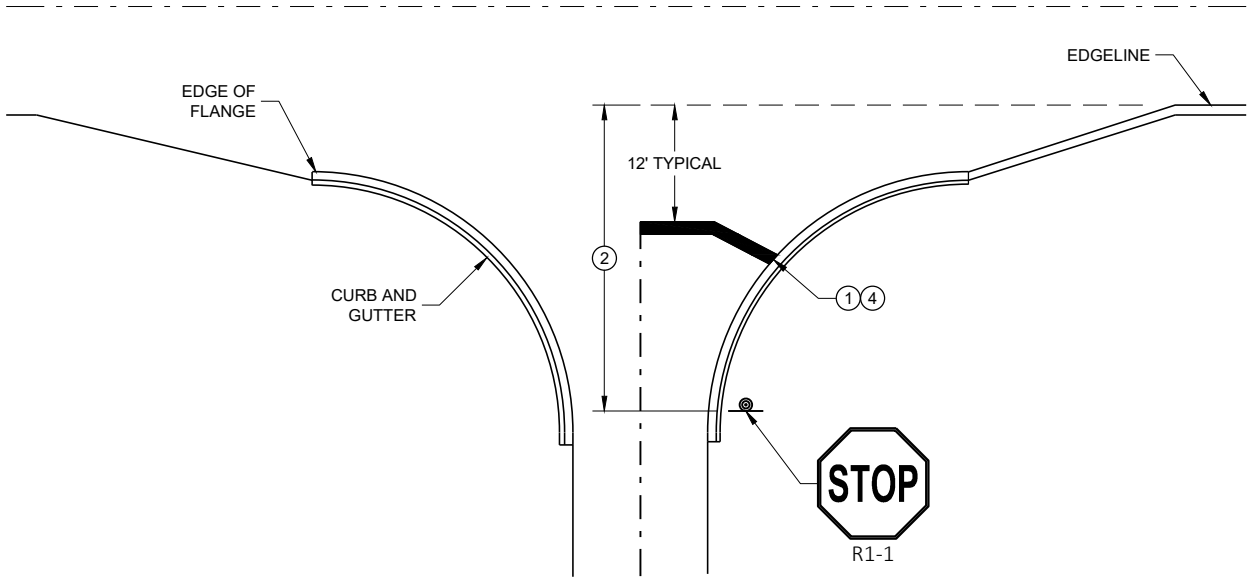
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

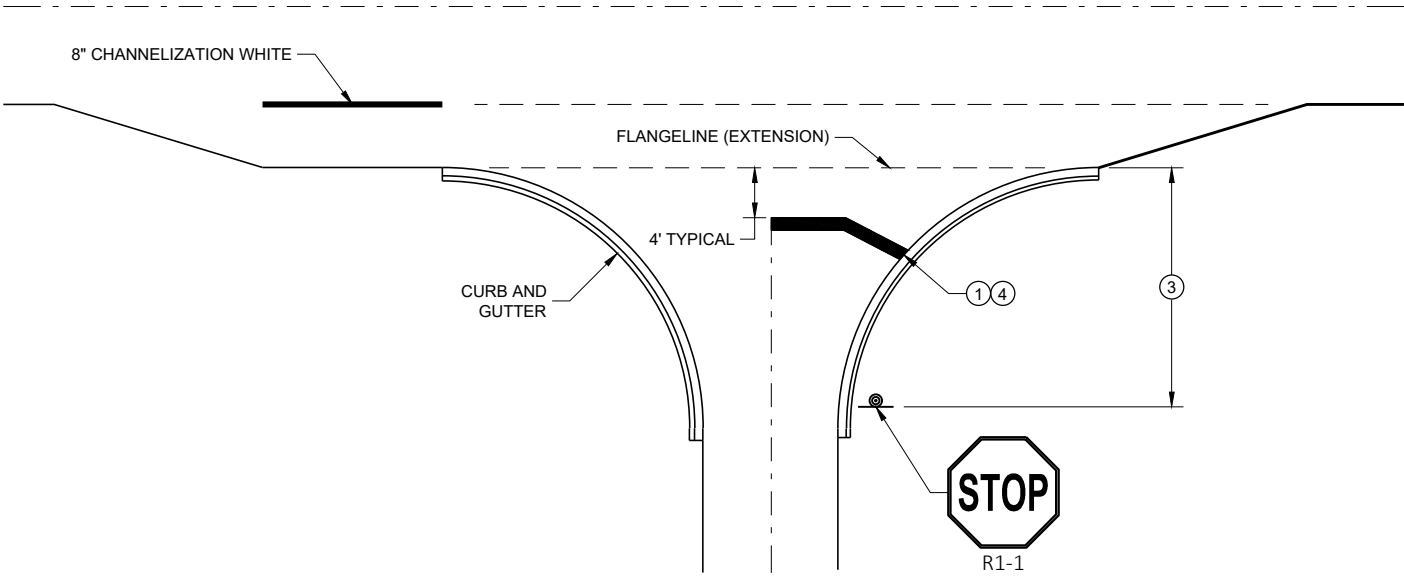
GENERAL NOTES

STOP SIGN SHALL BE PLACED A MINIMUM OF 6 FEET TO A MAXIMUM OF 50 FEET FROM THE EDGELINE LOCATION.

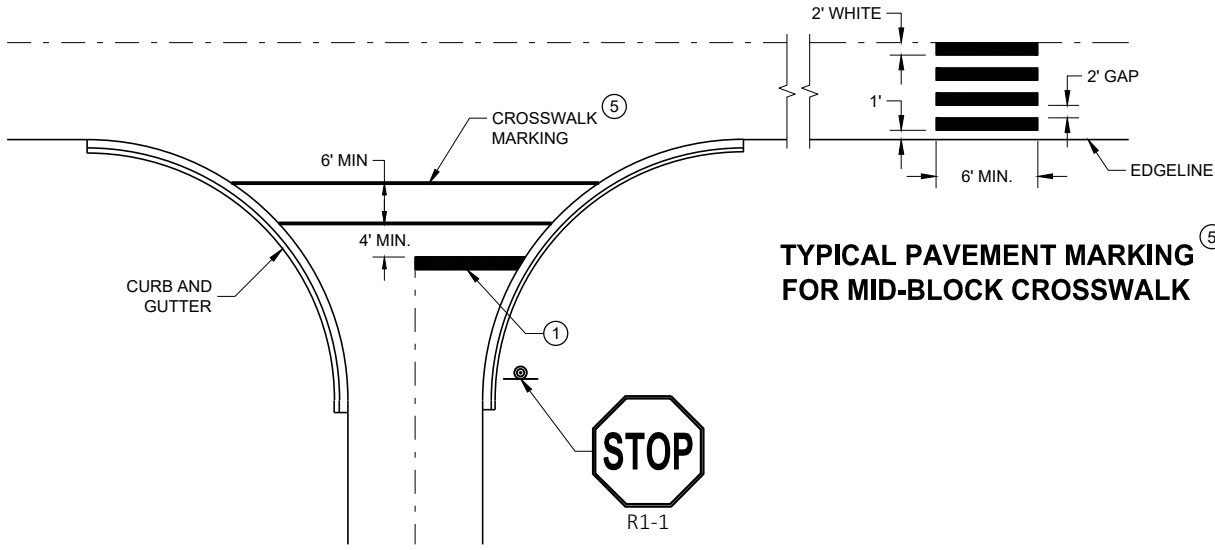
- ① 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE REGION MARKING ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
- ② NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE.
- ③ NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE EXTENSION.
- ④ MOVE CLOSER TO THE EDGE OF TRAVEL LINE AS NEEDED FOR VISIBILITY AND SIGHT LINES (NO CLOSER THAN 4 FEET).
- ⑤ LADDER BAR CROSSWALKS SHOULD ONLY BE USED FOR MID BLOCK CROSSINGS. USE 2 - 6" TRANSVERSE LINES INSTEAD.



TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER

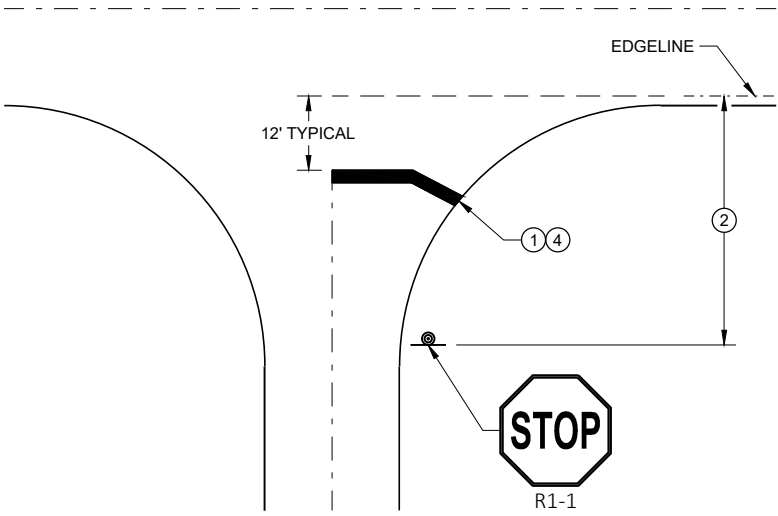


TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING

TYPICAL PAVEMENT MARKING FOR MID-BLOCK CROSSWALK



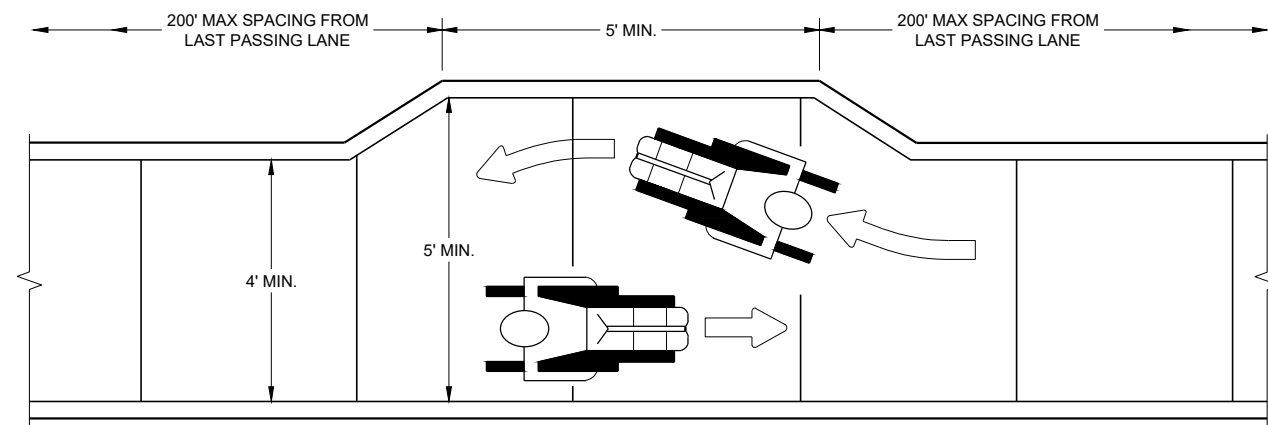
TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

STOP LINE AND CROSSWALK PAVEMENT MARKING

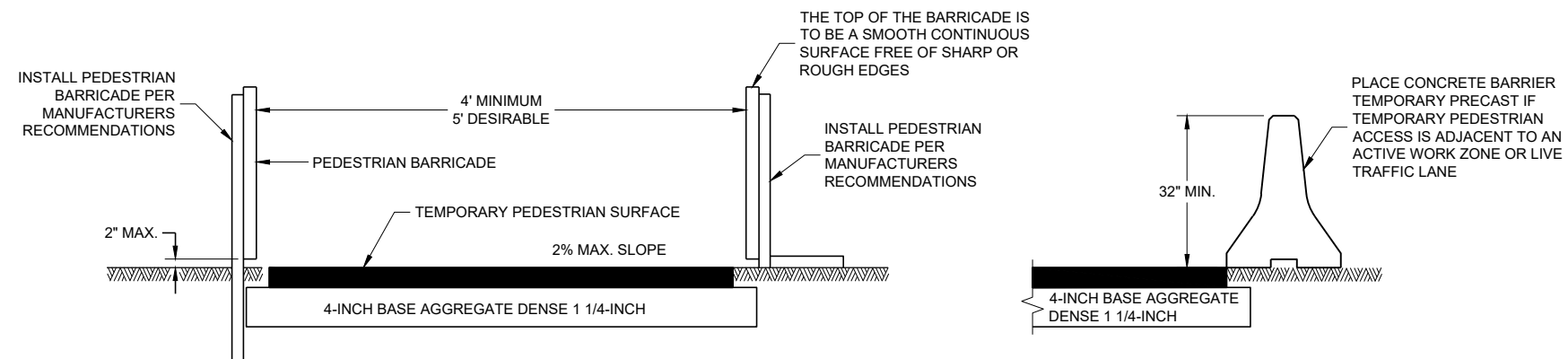
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019 /S/ Matthew Rauch
DATE STATE SIGNING AND MARKING ENGINEER

FHWA



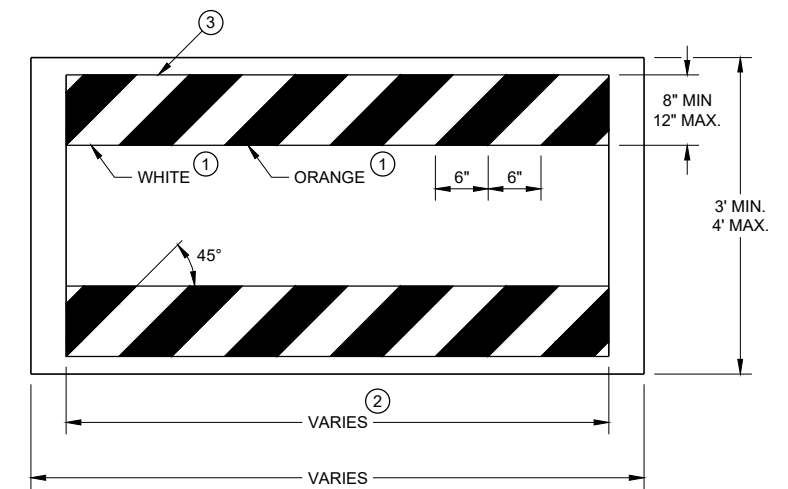
NARROW SIDEWALK PASSING DETAIL



TEMPORARY PEDESTRIAN ACCESS

GENERAL NOTES

- 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*

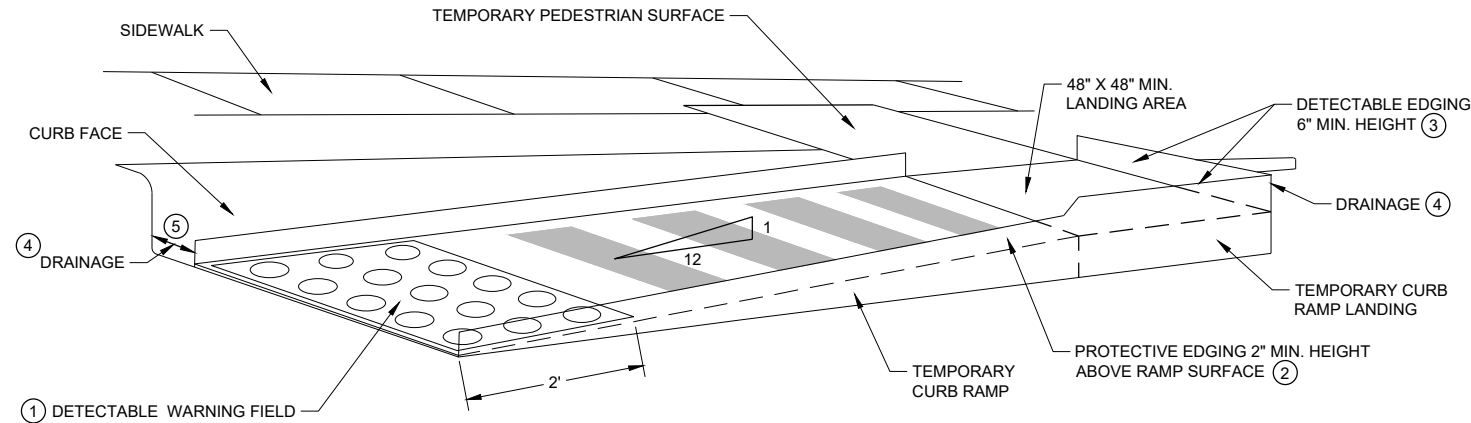
**TRAFFIC CONTROL,
PEDESTRIAN
ACCOMMODATION**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

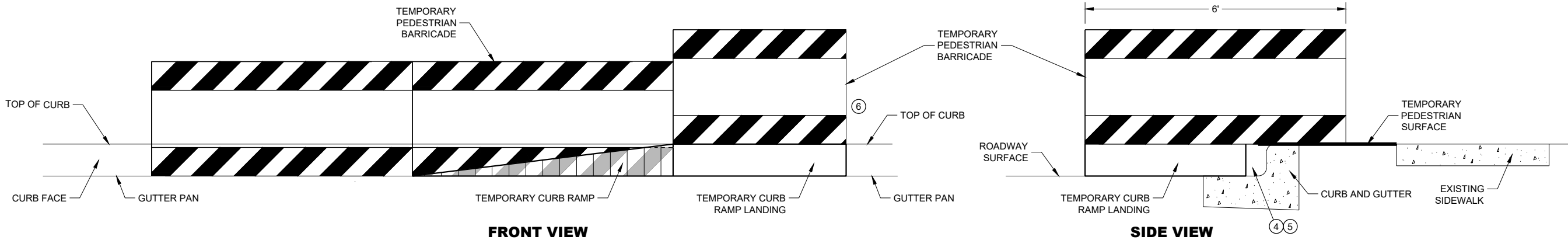
GENERAL NOTES

CURB RAMPS SHALL BE 48" MIN. WIDTH WITH A FIRM, STABLE AND SLIP RESISTANT SURFACE.
 CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX. CROSS-SLOPE.
 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 1/2" WIDTH.
 CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED 1/2". LATERAL EDGES MAY BE VERTICAL UP TO 1/4" HIGH AND SHALL BE BEVELED AT 1:2 BETWEEN 1/4" AND 1/2".

- ① INSTALL CONTRASTING TEMPORARY DETECTABLE WARNING FIELD AT PEDESTRIAN STREET CROSSINGS, AS SHOWN IN THE PLANS.
- 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 LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).
- ④ DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.
- ⑤ ENSURE CURB RAMP IS OUT OF THE GUTTER PAN.
- ⑥ IF ONLY PART OF THE END PANEL OF TEMPORARY PEDESTRIAN BARRICADE PANEL IS NEEDED, EXTEND EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE PANEL HERE.



PERSPECTIVE VIEW

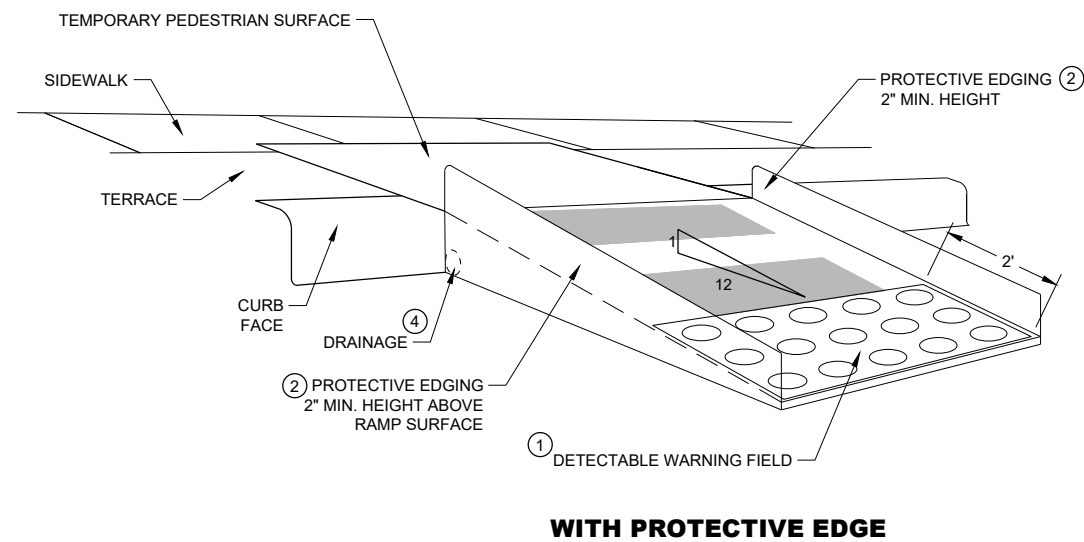
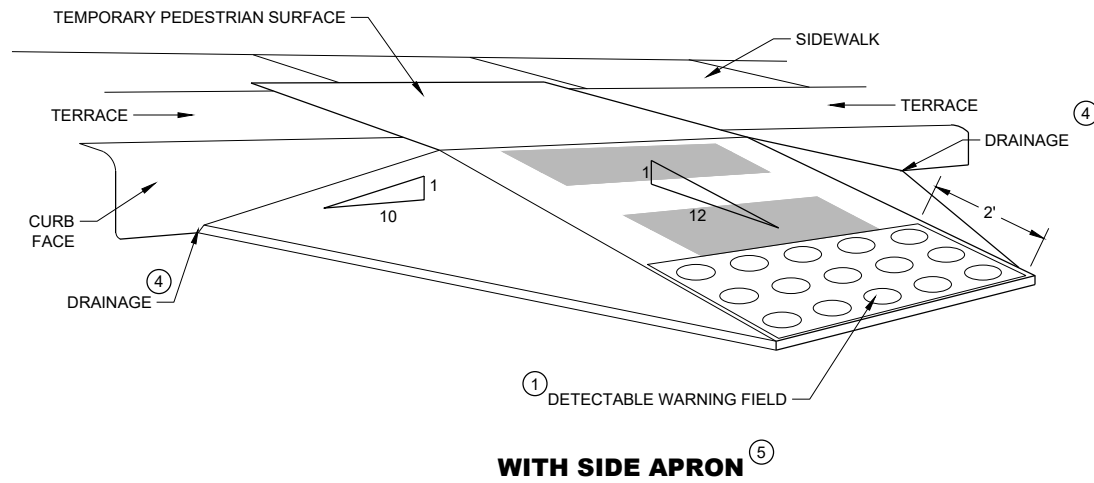


FRONT VIEW

SIDE VIEW

TEMPORARY CURB RAMP PARALLEL TO CURB

<p>TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION</p>
<p>STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION</p>



TEMPORARY CURB RAMP PERPENDICULAR TO CURB

GENERAL NOTES

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.

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

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 1/2" WIDTH.

CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED 1/2". LATERAL EDGES MAY BE VERTICAL UP TO 1/4" HIGH AND SHALL BE BEVELED AT 1:2 BETWEEN 1/4" AND 1/2".

- ① INSTALL CONTRASTING TEMPORARY DETECTABLE WARNING FIELD AT PEDESTRIAN STREET CROSSINGS, AS SHOWN IN THE PLANS
- 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 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.

GENERAL NOTES

IF PEDESTRIAN PUSH BUTTONS ARE PRESENT ON THE EXISTING FACILITY, ENSURE THEY ARE MAINTAINED/ACCESSIBLE FOR PEDESTRIAN USE THROUGHOUT THE TEMPORARY PEDESTRIAN ACCOMMODATIONS.











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

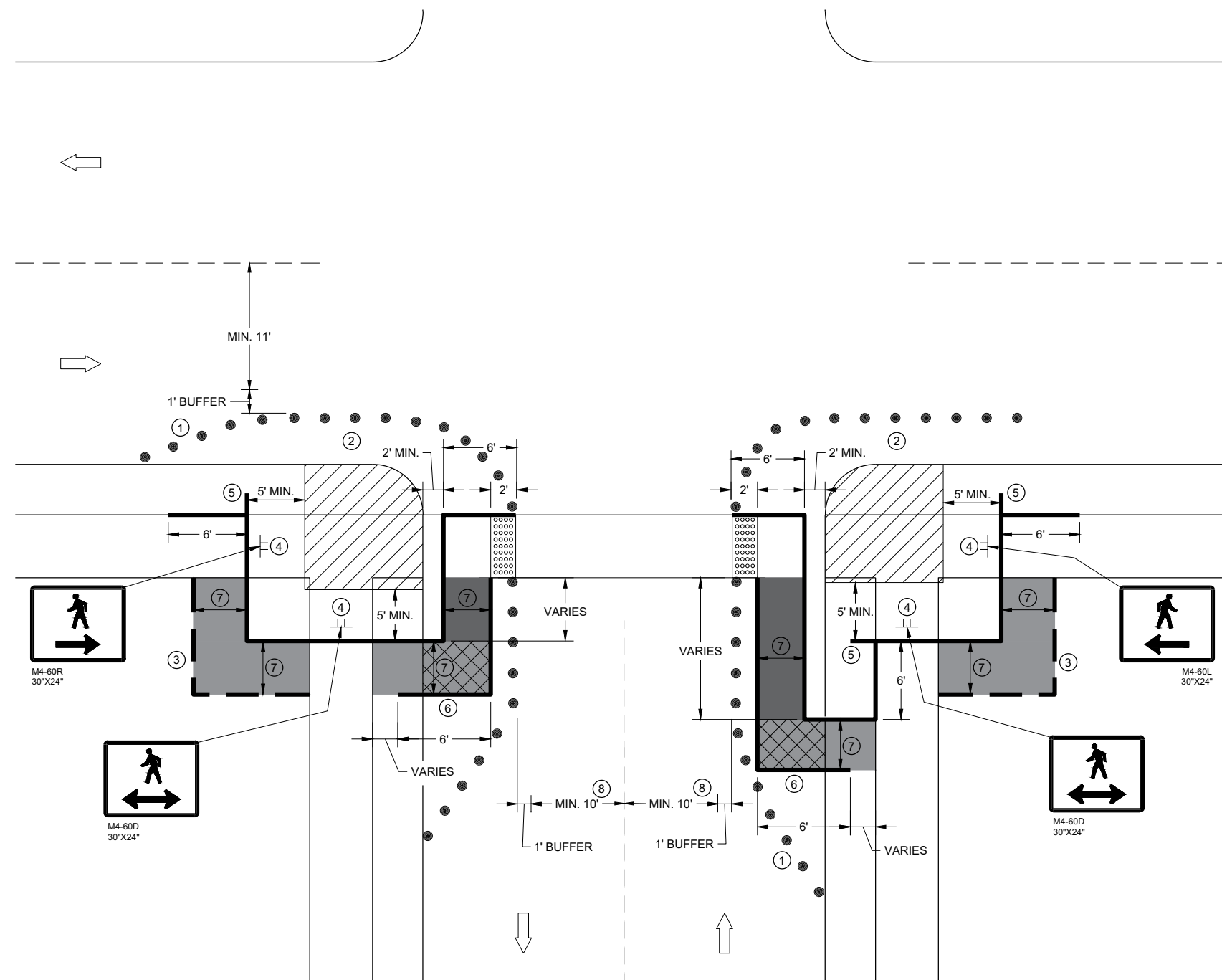
TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG

WHEN TEMPORARY PEDESTRIAN BARRICADE RUNS PARALLEL ALONG THE SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

- ① SHOULDER OR LANE CLOSURE ADVANCE WARNING AND PROPER BUFFER SPACE REQUIRED.
- ② PROVIDE ADEQUATE SPACE FOR CONTRACTOR OPERATIONS
- ③ USE TEMPORARY PEDESTRIAN BARRICADE TO SEPARATE PEDESTRIANS FROM DROP OFFS OR FOR ADDITIONAL PEDESTRIAN CHANNELIZATION.
- ④ MOUNTING HEIGHT OF 5 FEET FROM SIDEWALK SURFACE TO BOTTOM OF SIGN.
- ⑤ PLACE EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE PANEL IN THE SIDEWALK TERRACE.
- ⑥ IF TEMPORARY PEDESTRIAN BARRICADE DOES NOT REACH THE FACE OF THE CURB, USE AN ADDITIONAL PANEL AND EXTEND INTO THE TERRACE.
- ⑦ 4 FEET MINIMUM, 5 FEET DESIRABLE
- ⑧ IF MINIMUM LANE WIDTHS CAN'T BE ATTAINED, CURB RAMPS MAY NEED TO BE CONSTRUCTED AT SEPARATE TIMES.

LEGEND

-  SIGN ON TEMPORARY SUPPORT
-  TRAFFIC CONTROL DRUM
-  WORK AREA
-  TEMPORARY CURB RAMP
-  TEMPORARY PEDESTRIAN SURFACE "A"
-  TEMPORARY PEDESTRIAN SURFACE "B"
-  TEMPORARY DETECTABLE WARNING FIELD
-  TEMPORARY PEDESTRIAN BARRICADE
-  OPTIONAL TEMPORARY PEDESTRIAN BARRICADE
-  DIRECTION OF TRAFFIC



**CURB RAMP PEDESTRIAN TRAFFIC CONTROL
SIDEWALK ON SINGLE SIDE**

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

IF PEDESTRIAN PUSH BUTTONS ARE PRESENT ON THE EXISTING FACILITY, ENSURE THEY ARE MAINTAINED/ACCESSIBLE FOR PEDESTRIAN USE THROUGHOUT THE TEMPORARY PEDESTRIAN ACCOMMODATIONS.











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

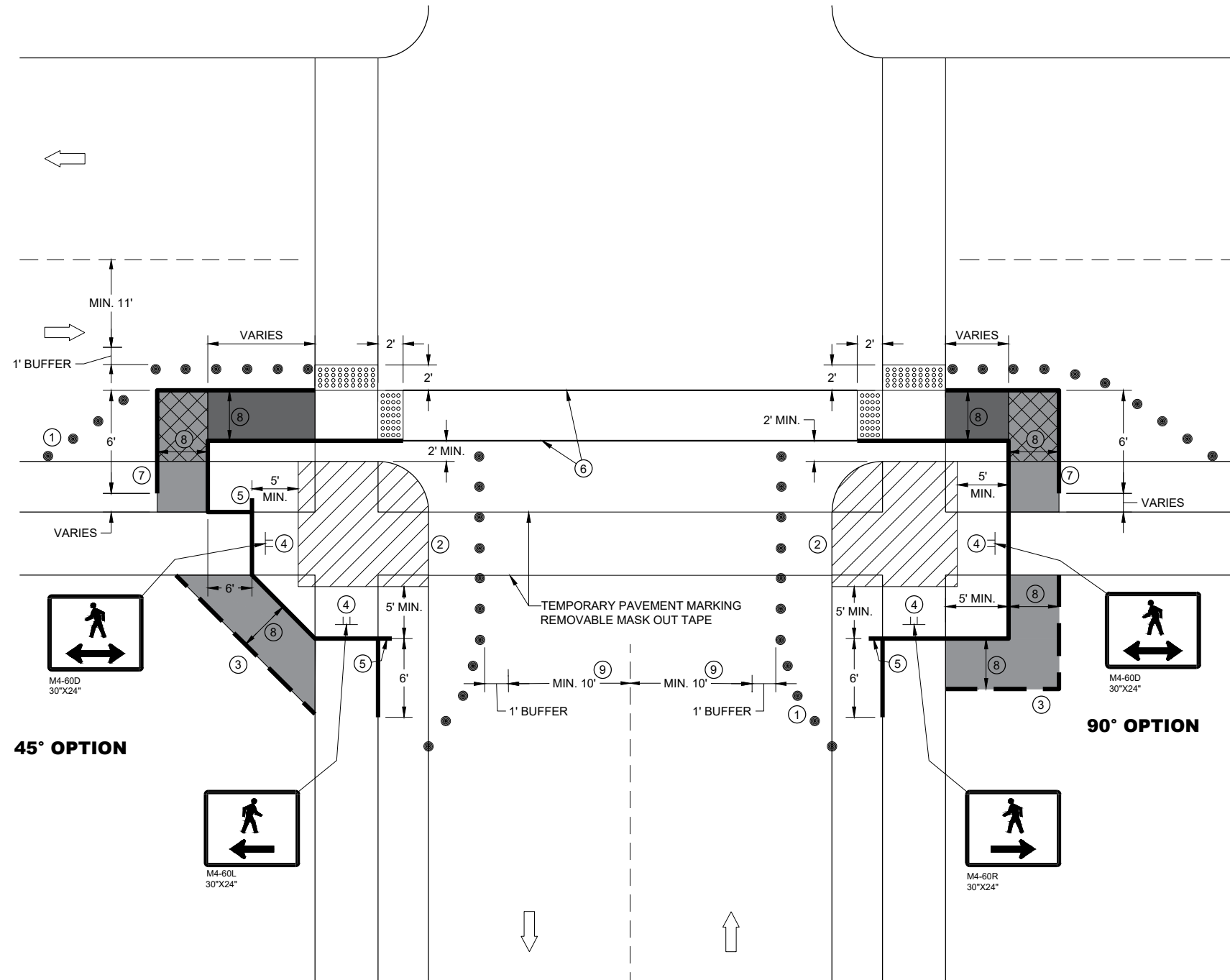
TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG

WHEN TEMPORARY PEDESTRIAN BARRICADE RUNS PARALLEL ALONG THE SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

- ① SHOULDER OR LANE CLOSURE ADVANCE WARNING AND PROPER BUFFER SPACE REQUIRED.
- ② PROVIDE ADEQUATE SPACE FOR CONTRACTOR OPERATIONS
- ③ USE TEMPORARY PEDESTRIAN BARRICADE TO SEPARATE PEDESTRIANS FROM DROP OFFS OR FOR ADDITIONAL PEDESTRIAN CHANNELIZATION.
- ④ MOUNTING HEIGHT OF 5 FEET FROM SIDEWALK SURFACE TO BOTTOM OF SIGN.
- ⑤ PLACE EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE PANEL IN THE SIDEWALK TERRACE.
- ⑥ WHITE 6" TEMPORARY PAVEMENT MARKING
- ⑦ IF TEMPORARY PEDESTRIAN BARRICADE DOES NOT REACH THE FACE OF THE CURB, USE AN ADDITIONAL PANEL AND EXTEND INTO THE TERRACE.
- ⑧ 4 FEET MINIMUM, 5 FEET DESIRABLE
- ⑨ IF MINIMUM LANE WIDTHS CAN'T BE ATTAINED, CURB RAMPS MAY NEED TO BE CONSTRUCTED AT SEPARATE TIMES.

LEGEND

-  SIGN ON TEMPORARY SUPPORT
-  TRAFFIC CONTROL DRUM
-  WORK AREA
-  TEMPORARY CURB RAMP
-  TEMPORARY PEDESTRIAN SURFACE "A"
-  TEMPORARY PEDESTRIAN SURFACE "B"
-  TEMPORARY DETECTABLE WARNING FIELD
-  TEMPORARY PEDESTRIAN BARRICADE
-  OPTIONAL TEMPORARY PEDESTRIAN BARRICADE
-  DIRECTION OF TRAFFIC



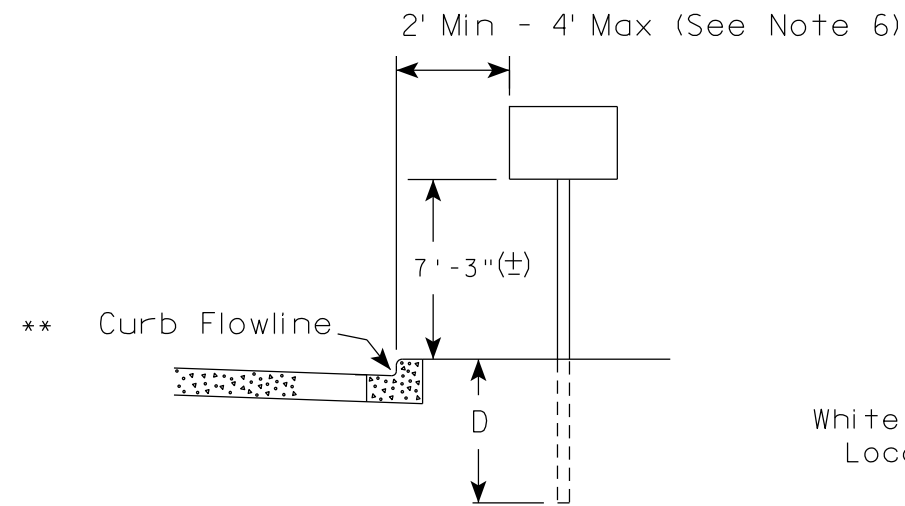
CURB RAMP PEDESTRIAN TRAFFIC CONTROL

**TRAFFIC CONTROL,
PEDESTRIAN ACCOMMODATION**

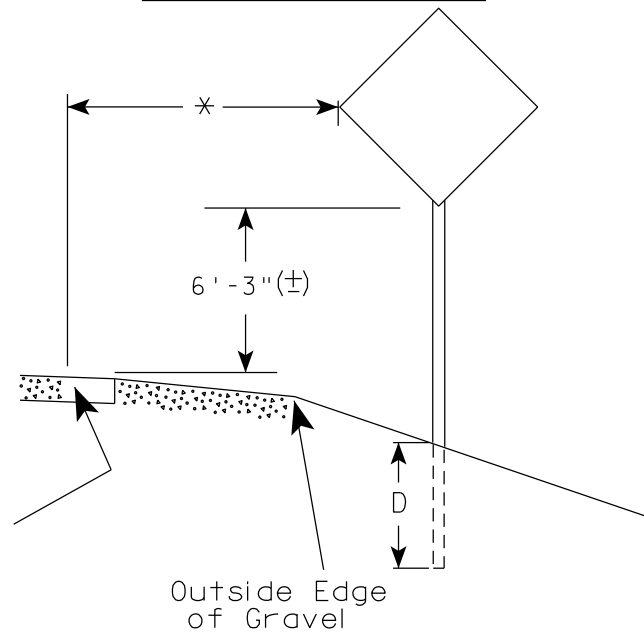
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

URBAN AREA

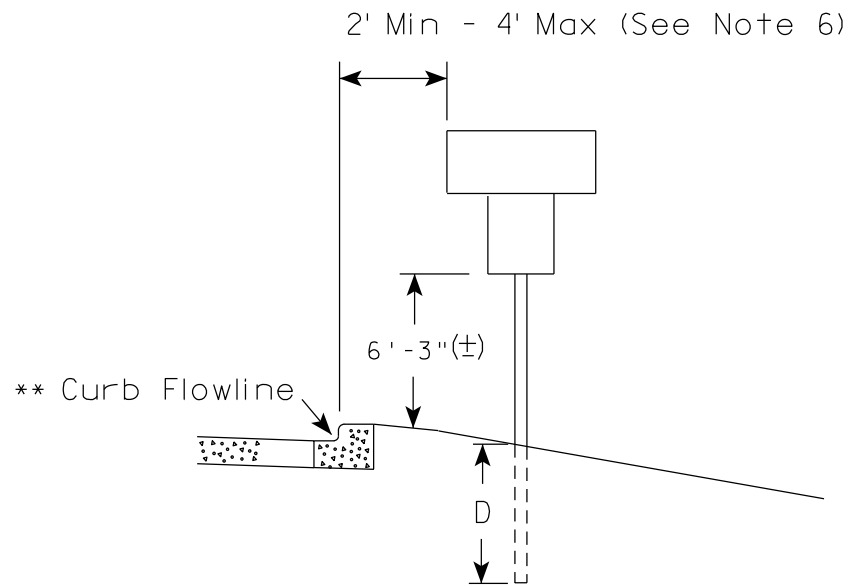
RURAL AREA (See Note 2)



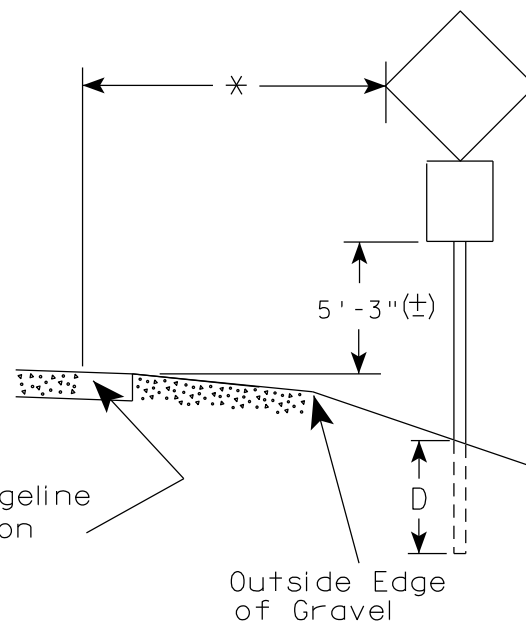
White Edgeline Location



Outside Edge of Gravel



White Edgeline Location



Outside Edge of Gravel

POST EMBEDMENT DEPTH

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

GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on or behind barrier wall, see A4-10 sign plate.
The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" (±). 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" (±) or 6'-3" (±) depending upon existence of a sub-sign.
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 height is 3 inches.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the 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.

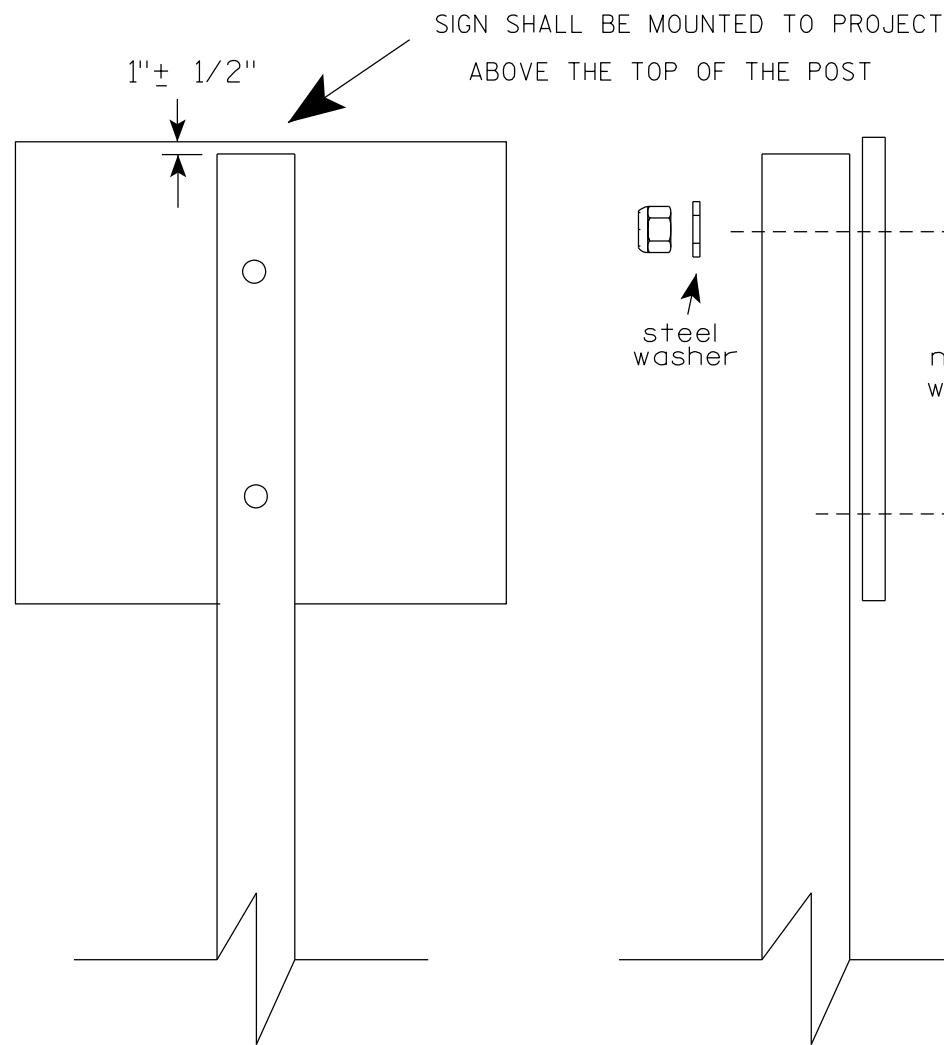
* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 5/13/2020 PLATE NO. A4-3.22



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

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

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

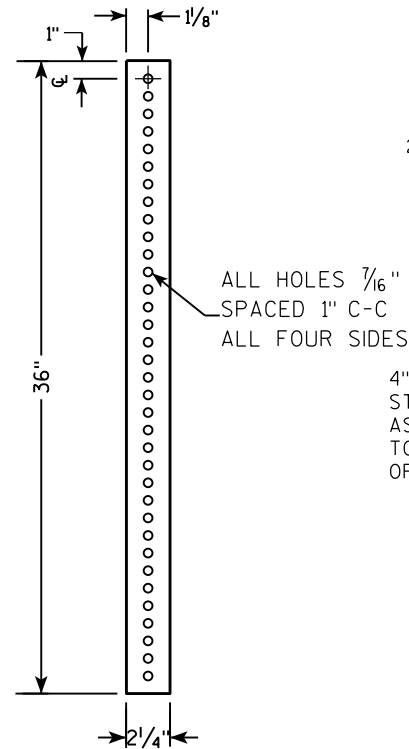
- STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)
- MACHINE BOLTS - $\frac{5}{16}$ " X 1-3/4" Length w/ lock nuts
- WOOD POSTS (4" x 6")
- LAG SCREWS - $\frac{3}{8}$ " X 3" (NO STRINGERS ON BACK OF SIGN)
 $\frac{3}{8}$ " X 4" (STRINGERS ON BACK OF SIGN)
- SQUARE STEEL POSTS (2" x 2")
- MACHINE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

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

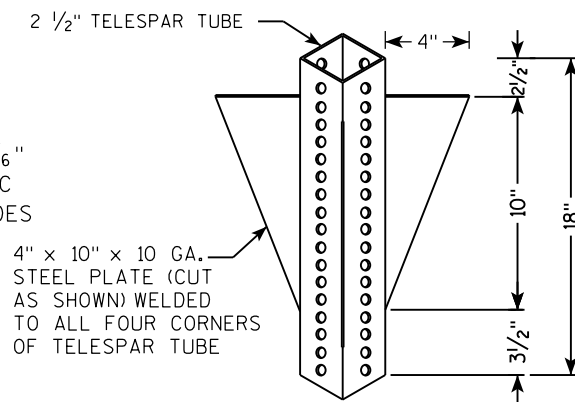
ATTACHMENT OF SIGNS TO POSTS	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R Rauch</i> For State Traffic Engineer
DATE 4/1/2020	PLATE NO. A4-8.9

**TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM**

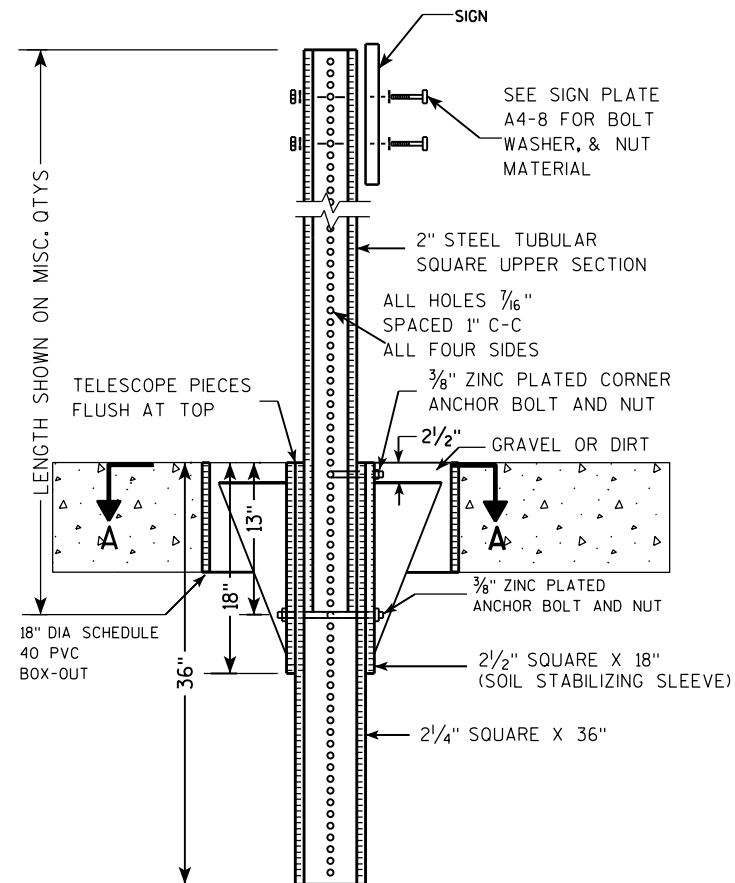
2 1/4" SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



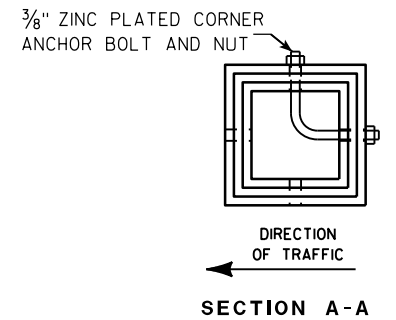
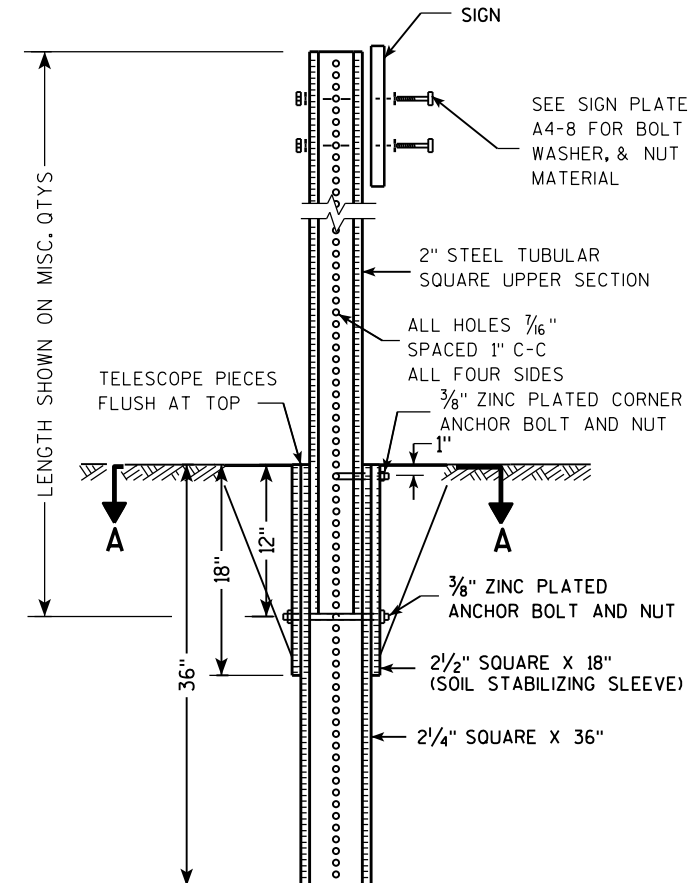
2 1/2" SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH



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



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



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

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

**TUBULAR STEEL
SIGN POST
A4-9**

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

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

PROJECT NO:

HWY:

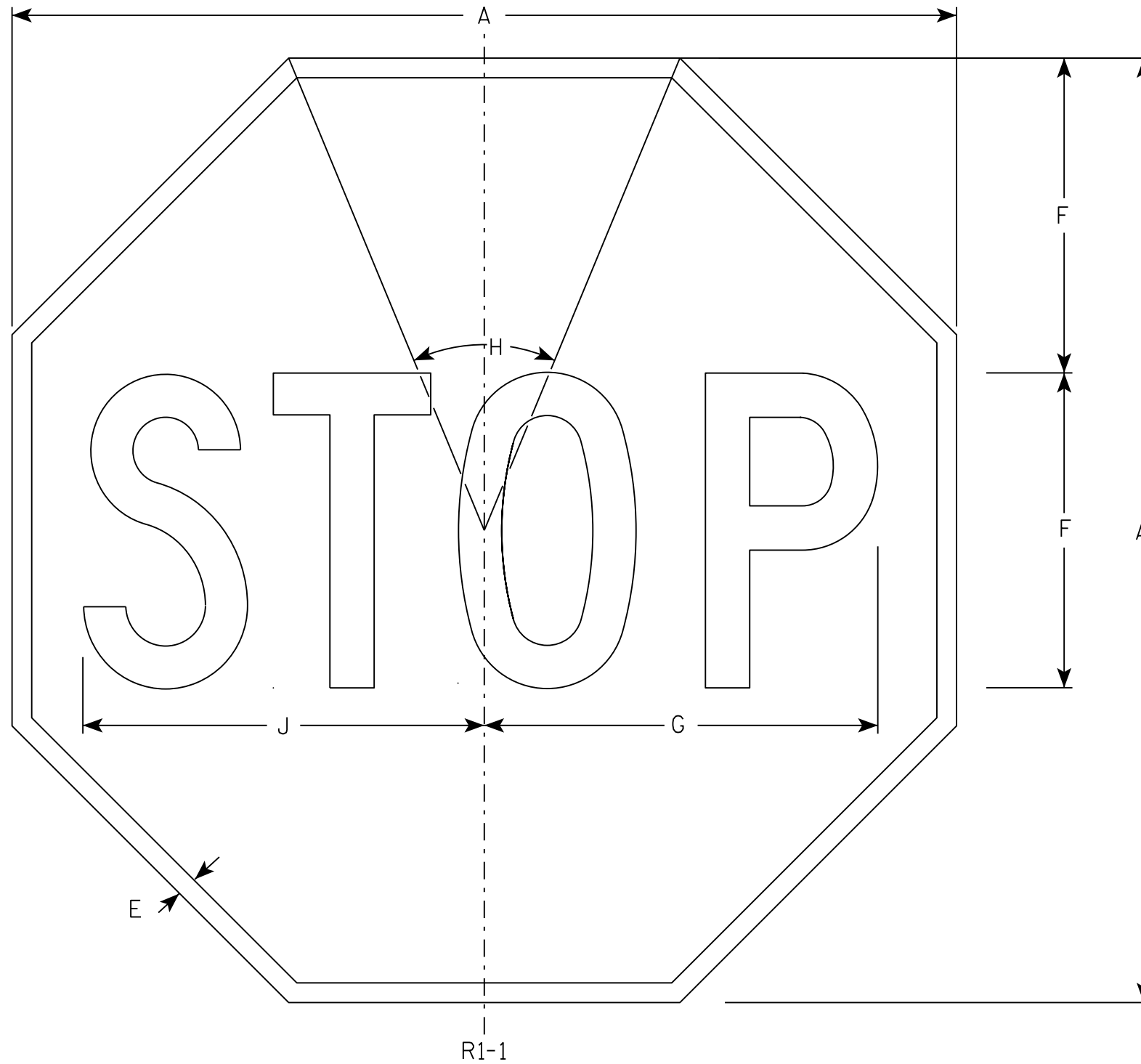
COUNTY:

SHEET NO:

E

NOTES

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



R1-1

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

STANDARD SIGN
R1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

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

PROJECT NO: _____ HWY: _____ COUNTY: _____ SHEET NO: **E**

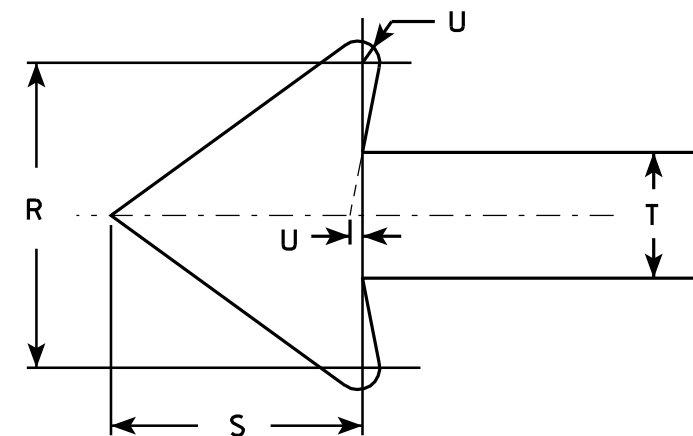


R7-2

* - See Note 5

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - White
Message - Red
3. Message Series - See Note 7
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals as required & adjust spacing to achieve proper balance.
6. R7-2D (double arrow)
R7-2L (left arrow)
R7-2R (right arrow)
7. Lines 1, 3 and 4 are series C, line 2 is series B.



7

7

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	12	18	1 1/8	3/8	3/8	3	1 7/8	1 1/2	7/8	7/8	2	2 1/2	2	2	4 7/8	4 7/8	3 7/8	1 3/4	1 1/2	3/4	1/8					1.5	
2S	18	24	1 1/8	3/8	1/2	4	2 1/2	2 1/2	1 1/4	1	2	3 1/4	2 3/4	2 5/8	7 1/8	7	5 7/8	2 5/8	2 1/4	1 1/8	1/4					3.0	
2M	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	7 3/4	3 1/2	3	1 1/2	1/4					5.0	
3	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	7 3/4	3 1/2	3	1 1/2	1/4					5.0	
4																											
5																											

STANDARD SIGN
R7-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 3/31/2011 PLATE NO. R7-2.9

PROJECT NO: _____ HWY: _____ COUNTY: _____ SHEET NO: _____ E

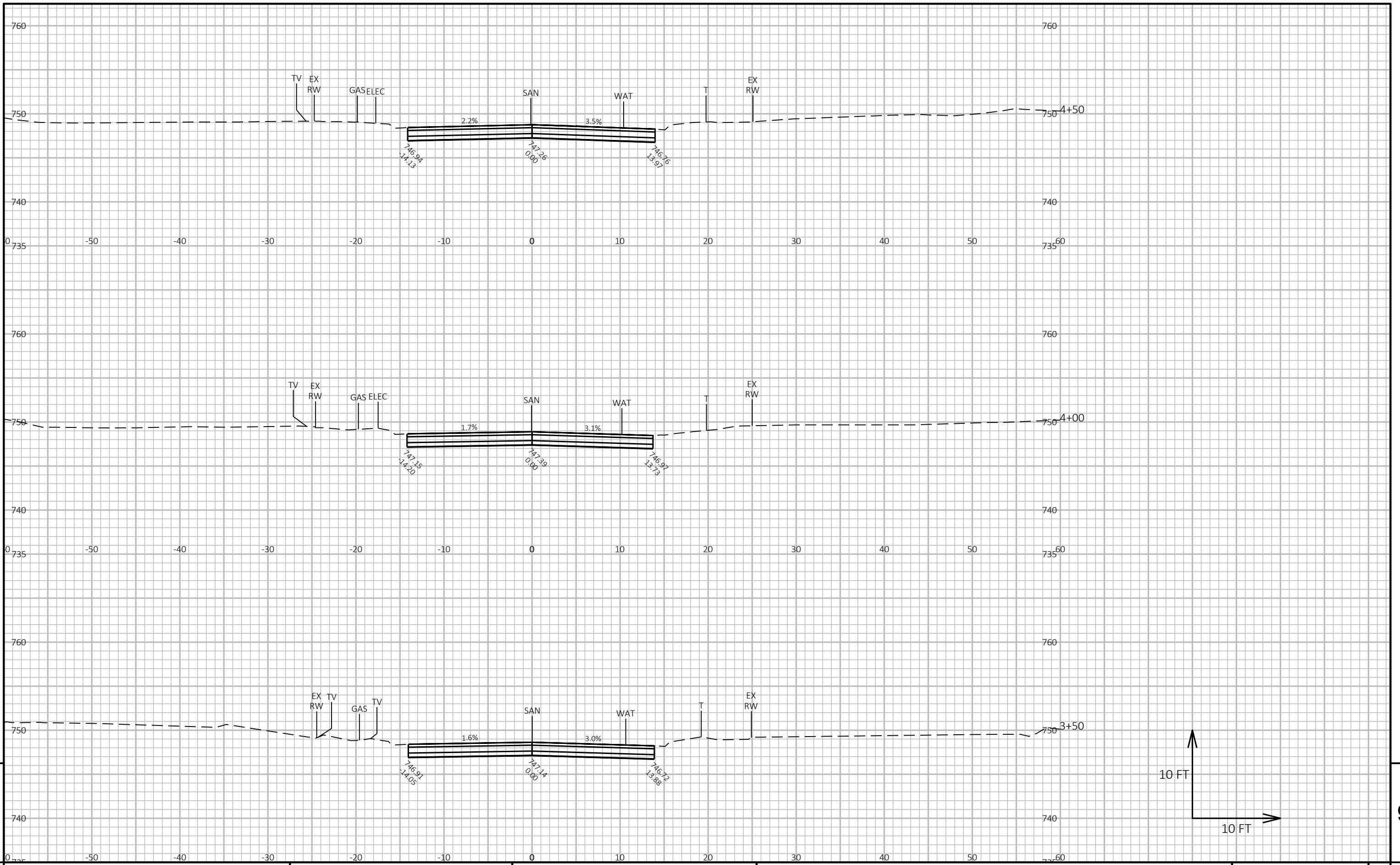
DIVISION -1- MARK ST

STATION	REAL STATION	DISTANCE	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)		CUMULATIVE VOL (CY)		
			CUT	FILL	CUT NOTE 1	FILL NOTE 3	CUT NOTE 1	EXPANDED FILL X1.25	MASS ORDINATE NOTE 8
02+50	250.00	25.00	42.20	0.00	39	0	39	0	39
03+00	300.00	50.00	42.61	0.00	79	0	118	0	118
03+50	350.00	50.00	41.43	0.00	78	0	196	0	196
04+00	400.00	50.00	42.26	0.00	77	0	273	0	273
04+50	450.00	50.00	42.57	0.00	79	0	352	0	352
05+00	500.00	50.00	41.74	0.00	78	0	430	0	430
05+50	550.00	50.00	42.14	0.00	78	0	508	0	508
06+00	600.00	50.00	42.10	0.00	78	0	586	0	586
06+50	650.00	50.00	43.09	0.00	79	0	665	0	665
07+00	700.00	50.00	48.78	0.00	85	0	750	0	750
07+32	732.00	32.00	120.22	0.00	100	0	850	0	850

Notes:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
8 - MASS ORDINATE	(CUT - EXPANDED FILL)

DIVISION	FROM/TO STATION	LOCATION	205.0100 COMMON EXCAVATION (1)	AVAILABLE MATERIAL (5)	UNEXPANDED FILL	EXPANDED FILL (13)	MASS ORDINATE +/- (14)	WASTE	208.0100 BORROW	COMMENT
			CUT (2)			FACTOR 1.25				
DIVISION 1										
MARK STREET	2+25 - 7+32	MARK STREET	850	850	0	0	850	850		
DIVISION 1 SUBTOTAL			850	850	0	0	850			
GRAND TOTAL			850	850	0	0	850	850	0	
TOTAL COMMON EXC			850							

NOTES:
 (1) COMMON EXCAVATION IS THE SUM OF THE CUT AND EBS EXCAVATION COLUMNS. ITEM NUMBER 205.0100
 (5) AVAILABLE MATERIAL = CUT - SALVAGED/UNUSABLE PAVEMENT MATERIAL
 (13) EXPANDED FILL FACTOR = 1.25
 (14) THE MASS ORDINATE + OR - QTY CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.
 (15) FACTORS USED TO COMPUTE ANTICIPATED WASTE AND THE COMPUTED WASTE VOLUME IDENTIFIED ARE FOR GENERAL INFORMATION ONLY.

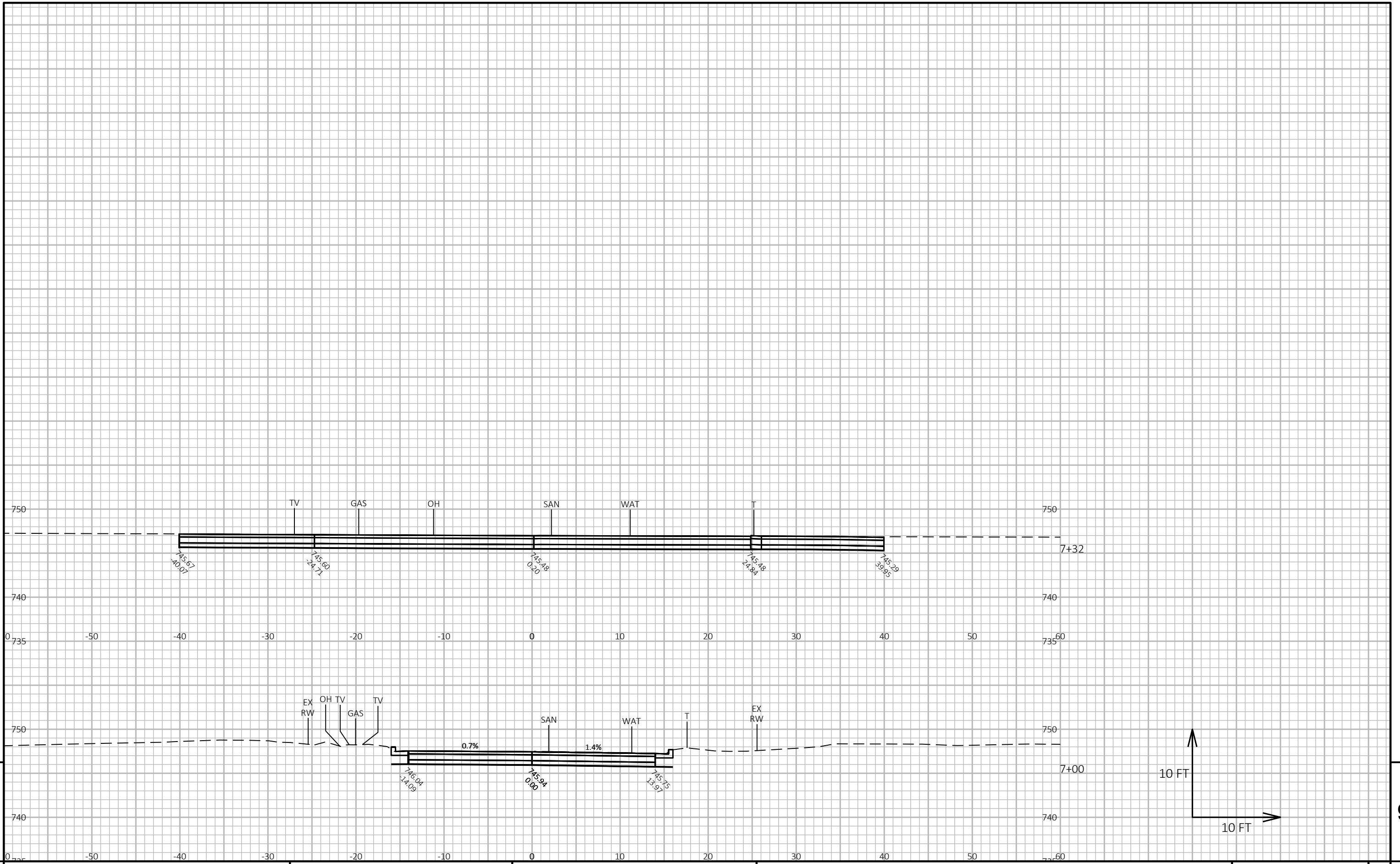


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PROJECT NO: 5991-00-26 HWY: MARK STREET COUNTY: LA CROSSE CROSS SECTIONS: MARK STREET SHEET E

FILE NAME : I:\CLIENTS-MADSN\W\4896 WEST SALEM VILLAGE OF\075 5991-00-25 MARK STREET\59910025\SHEETS\PLAN\090201-XS.DWG PLOT DATE : 5/5/2023 8:37 AM PLOT BY : JORDAN DISTERHAFT PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADD SHEET 49



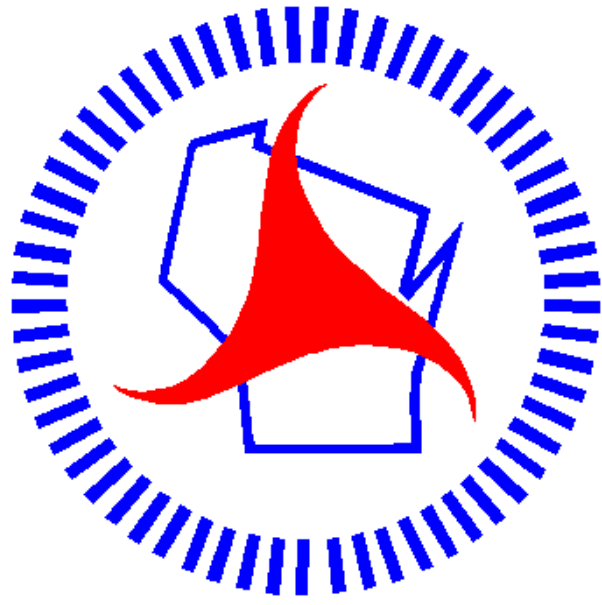
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PROJECT NO: 5991-00-26 HWY: MARK STREET COUNTY: LA CROSSE CROSS SECTIONS: MARK STREET SHEET E

FILE NAME : I:\CLIENTS-MADSN\W\W4896 WEST SALEM VILLAGE OF\075 5991-00-25 MARK STREET\59910025\SHEETS\PLAN\090201-XS.DWG PLOT DATE : 5/5/2023 8:38 AM PLOT BY : JORDAN DISTERHAFT PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADD SHEET 49

LAYOUT NAME - 090204-xs



Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

<http://www.dot.wisconsin.gov>