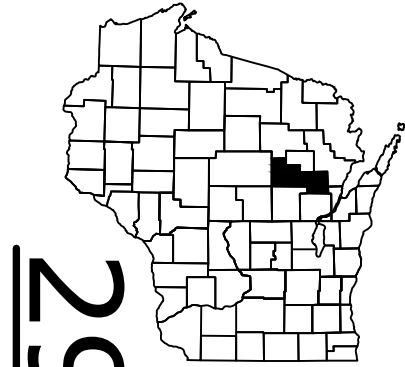


JANUARY 2022
ORDER OF SHEETS

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

TOTAL SHEETS = 66



29

DESIGN DESIGNATION

A.A.D.T.	2023	=	1300
A.A.D.T.	2043	=	1600
D.H.V.		=	14.2
D.D.		=	60/40
T.		=	16.9
DESIGN SPEED		=	60 MPH
ESALS		=	518,300

CONVENTIONAL SYMBOLS

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

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

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

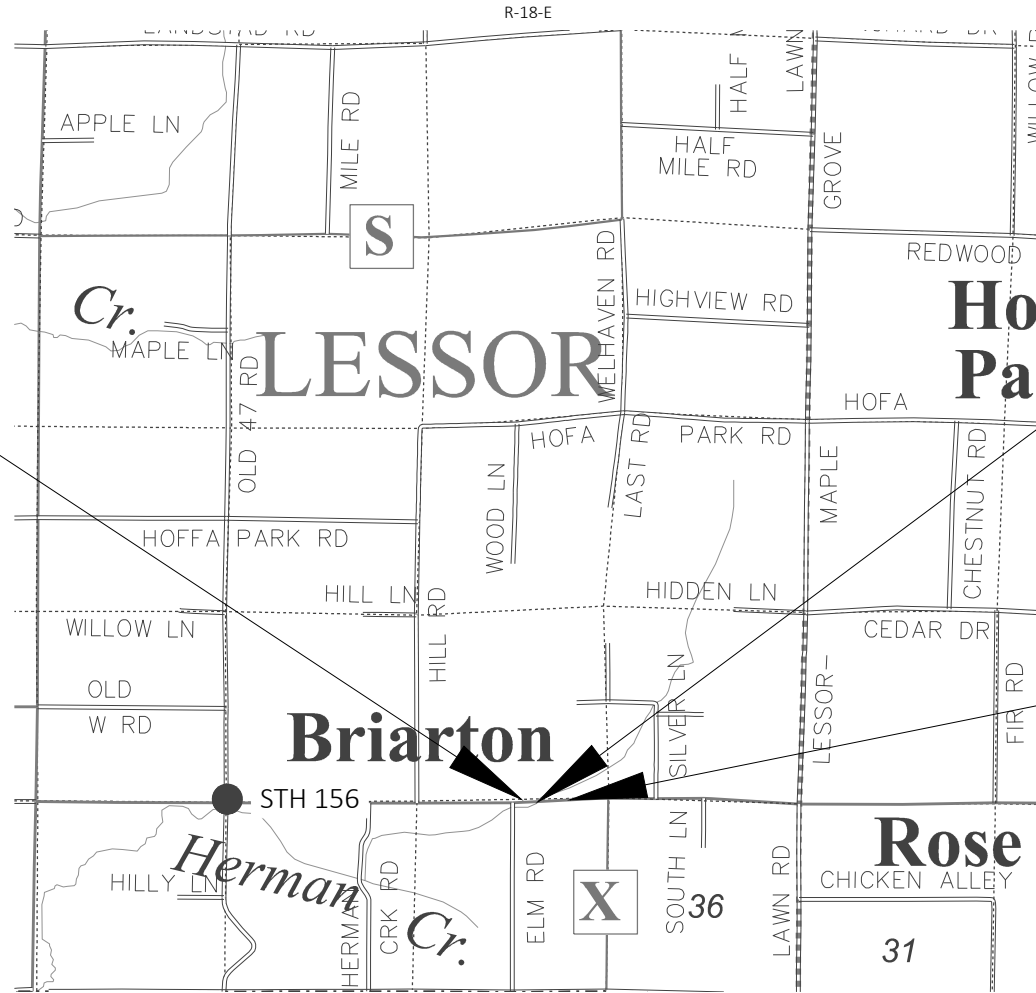
PLAN OF PROPOSED IMPROVEMENT

CLINTONVILLE - HOWARD

HERMAN CREEK CROSSING B-58-0119

STH 156 SHAWANO

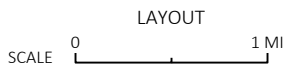
STATE PROJECT NUMBER
6580-10-71



BEGIN PROJECT
STA 112+40
Y=206,660.128
X=915,993.572

STRUCTURE
B-58-0119

END PROJECT
STA 115+30



TOTAL NET LENGTH OF CENTERLINE = 0.055 MI

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), SHAWANO COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. POSITIONS SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES ARE THE SAME AS GROUND DISTANCES. ELEVATIONS ARE REFERENCED TO NAVD 88 (2012). GPS DERIVED ELEVATIONS ARE BASED ON GEOID 12A.

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
6580-10-71		

ORIGINAL PLANS PREPARED BY
AECOM

DATE: *11-3-21 Michelle M. Guoin*
(Professional Engineer Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY	
Surveyor	AECOM
Designer	AECOM
Project Manager	PRESTON BOHN, PE
Regional Examiner	CHERYL SIMON
Regional Supervisor	MICHAEL KRETSCHMER, PE

APPROVED FOR THE DEPARTMENT
DATE: 11/08/2021 *PBSL*
(Signature)

E

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.

RADII, ELEVATIONS, AND DIMENSIONS ARE GIVEN AT THE PAVEMENT EDGES, UNLESS OTHERWISE NOTED IN THE PLANS.

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, SHALL BE FERTILIZED, SEEDED, AND MULCHED.

ORDER OF SECTION 2 SHEETS

GENERAL NOTES
TYPICAL SECTIONS
DETOUR PLAN

UTILITY CONTACTS

LUMEN (FORMERLY CENTURYLINK/LEVEL(3) COMMUNICATIONS) - COMMUNICATION LINE
JASON BUSSE
3235 INTERTECH DR, SUITE 600
BROOKFIELD, WI 53045
PHONE: (414) 224-6713, (414) 415-3214 (CELL)
EMAIL: JASON.BUSSE@LUMEN.COM

LUMEN (FORMERLY CENTURYTEL OF CENTRAL WISCONSIN, LLC DBA CENTURYLINK) - COMMUNICATION LINE
MATT GUNDERSON
212 CHUCH AVE
CASCO, WI 54205
PHONE: (920) 837-2344, (920) 896-2867 (CELL)
EMAIL: MATT.GUNDERSON@LUMEN.COM

NSIGHT - COMMUNICATION LINE
RICK VINCENT
470 SECURITY BLVD
GREEN BAY, WI 54173
PHONE: (920) 617-7316, (920) 660-6644 (CELL)
EMAIL: RICK.VINCENT@NSIGHT.COM

WDNR CONTACT

JIM DOPERALSKI
2984 SHAWANO AVENUE
GREEN BAY, WI 54313
PHONE: 920-412-0165
EMAIL: James.Doperalski@wisconsin.gov

WISCONSIN PUBLIC SERVICE - GAS/PETROLEUM
JIM EIDEN
2850 S. ASHLAND AVE
GREEN BAY, WI 54304
PHONE: (920) 617-5231, (920) 676-8068 (CELL)
EMAIL: JAMES.EIDEN@WISCONSINPUBLICSERVICE.COM

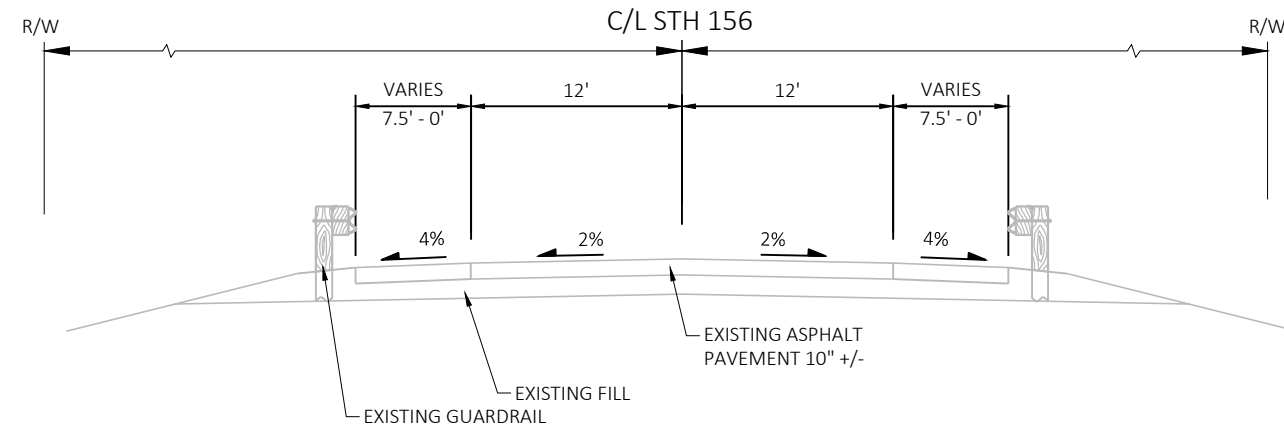
WE ENERGIES - ELECTRICITY
HEATH HEMAUER
800 S. LYNNDALE AVE
APPLETON, WI
PHONE: (920) 522-3676
EMAIL: HEATH.HEMAUER@WE-ENERGIES.COM



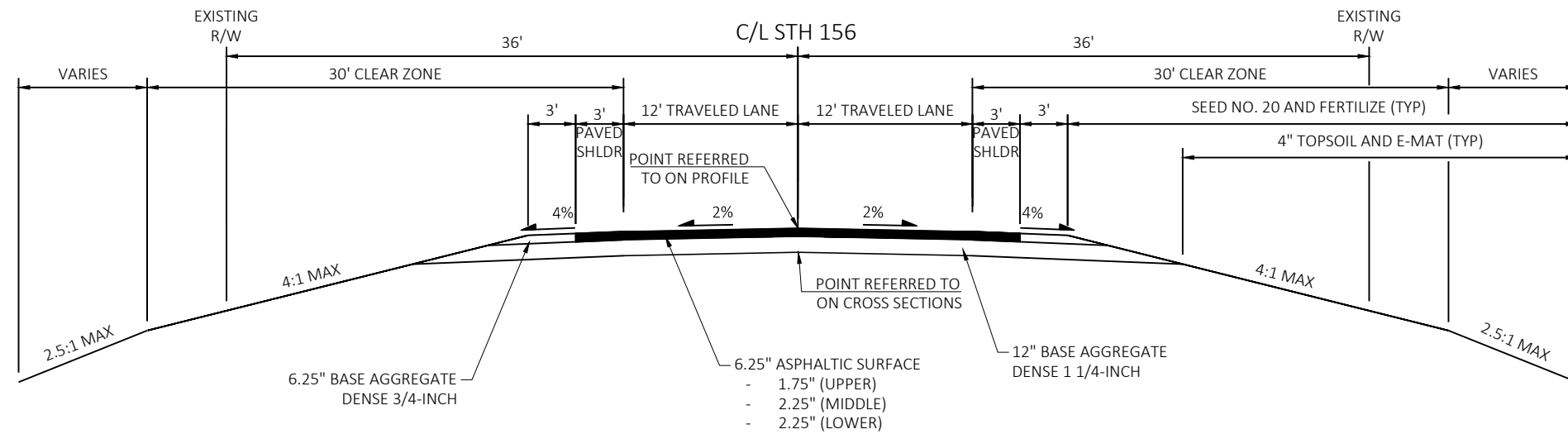
RUNOFF COEFFICIENT TABLE

	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 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56
MEDIAN STRIP-TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22 .28	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40
SIDE SLOPE-TURF			.25 .32			.27 .34			.28 .36			.30 .38
PAVEMENT:												
ASPHALT	.70 - .95											
CONCRETE	.80 - .95											
BRICK	.70 - .80											
DRIVES, WALKS	.75 - .85											
ROOFS	.75 - .95											
GRAVEL ROADS, SHOULDERS	.40 - .60											

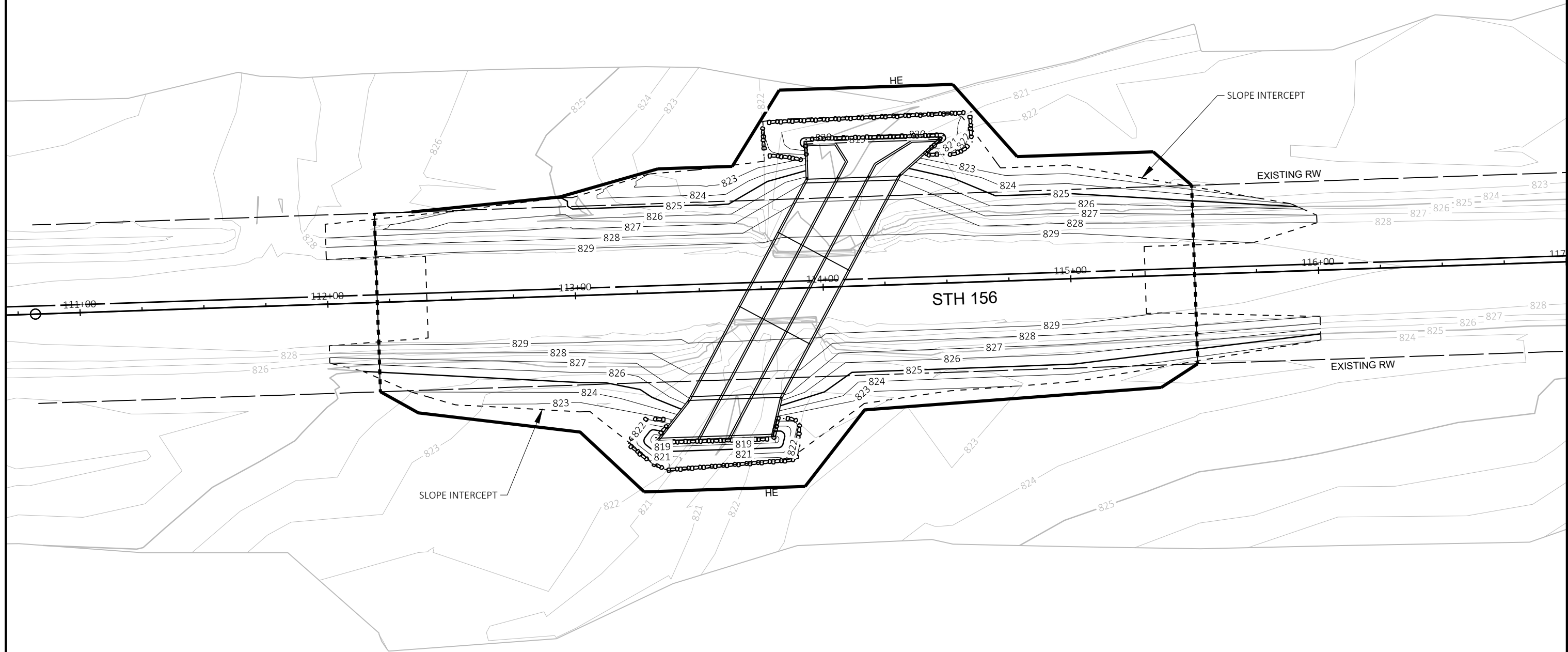
TOTAL PROJECT AREA = 0.959 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.749 ACRES

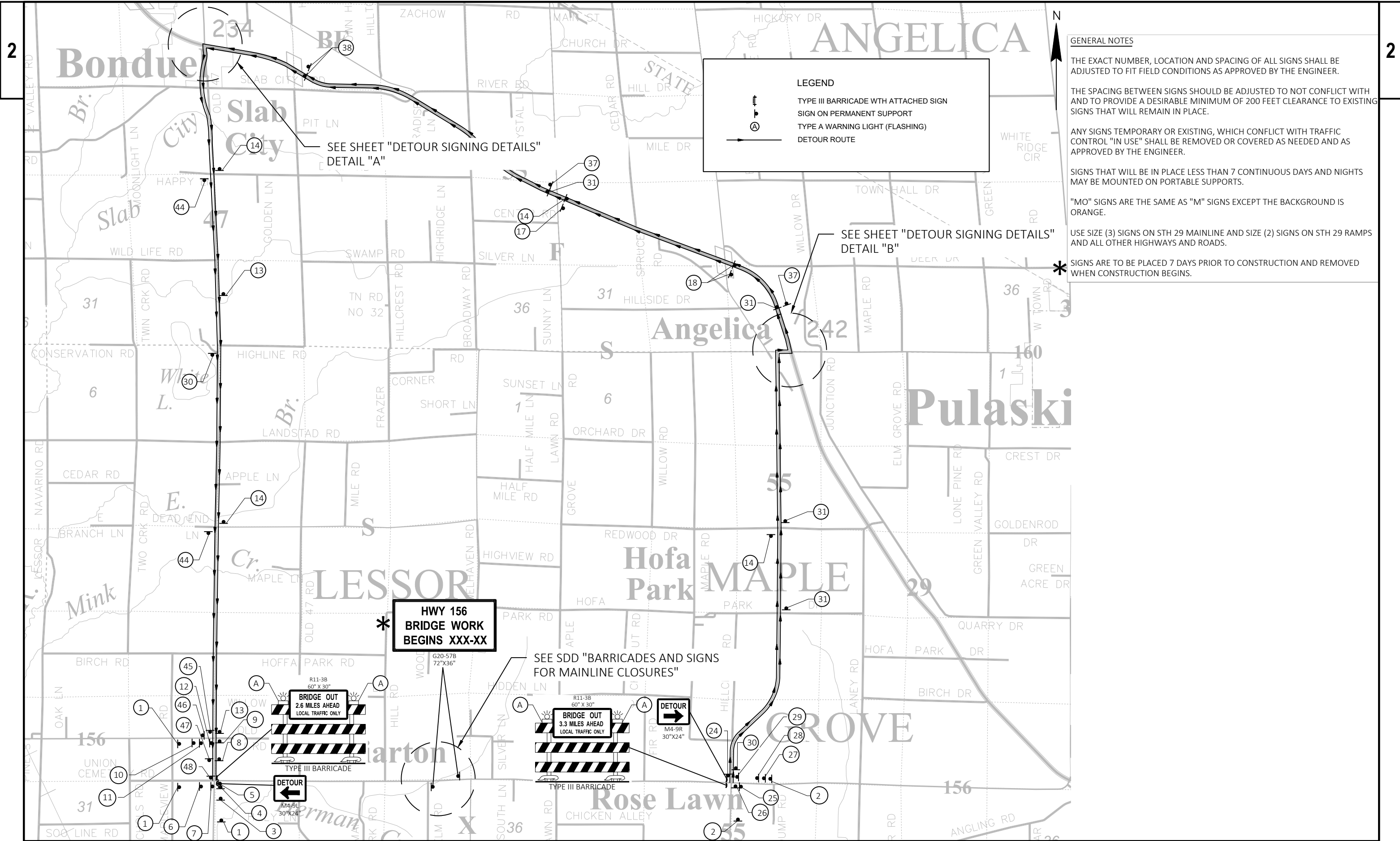


TYPICAL EXISTING SECTION
STA 112+40 TO STA 115+30



TYPICAL PROPOSED SECTION
STA 112+40 TO STA 115+30







LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TYPE A WARNING LIGHT (FLASHING)
- DETOUR ROUTE

GENERAL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS 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 DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

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.

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

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

USE SIZE (3) SIGNS ON STH 29 MAINLINE AND SIZE (2) SIGNS ON STH 29 RAMPS AND ALL OTHER HIGHWAYS AND ROADS.

SIGN ASSEMBLY LEGEND

	MO-1 21"x21" (2) 30"x30" (3)		M4-8 24"x12" (2) 36"x18" (3)
	MOS-1R 21"x21" (2) 30"x30" (3)		M3-2 24"x12" (2) 36"x18" (3)
	MOS-1L 21"x21" (2) 30"x30" (3)		M3-4 24"x12" (2) 36"x18" (3)
	MO-6-1 21"x21" (2) 30"x30" (3)		M1-56 24"x24" (2) 36"x36" (3)
	MOS-2R 21"x21" (2) 30"x30" (3)		R11-3B 60"x30"
	MO-6-2 21"x21" (2) 30"x30" (3)		M4-8A 24"x18" (2)
	END M4-6 24"x12" (2)		

Estimate Of Quantities

6580-10-71

Line	Item	Item Description	Unit	Total	Qty
0002	201.0105	Clearing	STA	3.000	3.000
0004	201.0205	Grubbing	STA	3.000	3.000
0006	203.0260	Removing Structure Over Waterway Minimal Debris (structure) 01. B-58-0010	EACH	1.000	1.000
0008	204.0165	Removing Guardrail	LF	552.000	552.000
0010	204.0170	Removing Fence	LF	145.000	145.000
0012	205.0100	Excavation Common	CY	667.000	667.000
0014	206.2000	Excavation for Structures Culverts (structure) 01. B-58-0119	LS	1.000	1.000
0016	208.0100	Borrow	CY	895.000	895.000
0018	210.2500	Backfill Structure Type B	TON	1,890.000	1,890.000
0020	213.0100	Finishing Roadway (project) 01. 6580-10-71	EACH	1.000	1.000
0022	305.0110	Base Aggregate Dense 3/4-Inch	TON	71.000	71.000
0024	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	780.000	780.000
0026	311.0115	Breaker Run	CY	210.000	210.000
0028	455.0605	Tack Coat	GAL	137.000	137.000
0030	465.0105	Asphaltic Surface	TON	356.000	356.000
0032	504.0100	Concrete Masonry Culverts	CY	389.000	389.000
0034	505.0400	Bar Steel Reinforcement HS Structures	LB	19,460.000	19,460.000
0036	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	25,280.000	25,280.000
0038	516.0500	Rubberized Membrane Waterproofing	SY	70.000	70.000
0040	606.0100	Riprap Light	CY	15.000	15.000
0042	606.0300	Riprap Heavy	CY	120.000	120.000
0044	618.0100	Maintenance And Repair of Haul Roads (project) 01. 6580-10-71	EACH	1.000	1.000
0046	619.1000	Mobilization	EACH	1.000	1.000
0048	624.0100	Water	MGAL	9.000	9.000
0050	625.0100	Topsoil	SY	2,060.000	2,060.000
0052	628.1504	Silt Fence	LF	936.000	936.000
0054	628.1520	Silt Fence Maintenance	LF	936.000	936.000
0056	628.1905	Mobilizations Erosion Control	EACH	3.000	3.000
0058	628.1910	Mobilizations Emergency Erosion Control	EACH	3.000	3.000
0060	628.2008	Erosion Mat Urban Class I Type B	SY	2,060.000	2,060.000
0062	628.7504	Temporary Ditch Checks	LF	16.000	16.000
0064	628.7570	Rock Bags	EACH	60.000	60.000
0066	629.0210	Fertilizer Type B	CWT	1.600	1.600
0068	630.0120	Seeding Mixture No. 20	LB	39.000	39.000
0070	630.0500	Seed Water	MGAL	49.000	49.000
0072	638.2602	Removing Signs Type II	EACH	4.000	4.000
0074	638.3000	Removing Small Sign Supports	EACH	4.000	4.000
0076	642.5001	Field Office Type B	EACH	1.000	1.000
0078	643.0420	Traffic Control Barricades Type III	DAY	960.000	960.000
0080	643.0705	Traffic Control Warning Lights Type A	DAY	1,320.000	1,320.000
0082	643.0900	Traffic Control Signs	DAY	14,040.000	14,040.000
0084	643.0920	Traffic Control Covering Signs Type II	EACH	14.000	14.000
0086	643.1000	Traffic Control Signs Fixed Message	SF	36.000	36.000
0088	643.5000	Traffic Control	EACH	1.000	1.000
0090	645.0105	Geotextile Type C	SY	620.000	620.000
0092	645.0120	Geotextile Type HR	SY	280.000	280.000
0094	645.0130	Geotextile Type R	SY	62.000	62.000
0096	646.1020	Marking Line Epoxy 4-Inch	LF	655.000	655.000
0098	650.4500	Construction Staking Subgrade	LF	290.000	290.000

Estimate Of Quantities

6580-10-71

Line	Item	Item Description	Unit	Total	Qty
0100	650.5000	Construction Staking Base	LF	290.000	290.000
0102	650.6500	Construction Staking Structure Layout (structure) 01. B-58-0119	LS	1.000	1.000
0104	650.9910	Construction Staking Supplemental Control (project) 01. 6580-10-71	LS	1.000	1.000
0106	650.9920	Construction Staking Slope Stakes	LF	290.000	290.000
0108	690.0150	Sawing Asphalt	LF	50.000	50.000
0110	715.0502	Incentive Strength Concrete Structures	DOL	2,340.000	2,340.000
0112	SPV.0060	Special 01. Temporary Stream Diversion Channel Structure B-58-119	EACH	1.000	1.000

3

CLEARING AND GRUBBING

		201.0105 CLEARING	201.0205 GRUBBING
STATION	- STATION	STA	STA
112+00	- 115+00	3	3
PROJECT 6580-10-71 TOTAL		3	3

REMOVING GUARDRAIL

			204.0165 REMOVING GUARDRAIL
STATION	- STATION	OFFSET	LF
112+41	- 115+17	RT	277
112+61	- 115+35	LT	275
PROJECT 6580-10-71 TOTAL			552

REMOVING FENCE

		204.0170 REMOVING FENCE
STATION	- STATION	LF
112+38	- 113+16	80
113+94	- 114+51	65
PROJECT 6580-10-71 TOTAL		145

3

BASE AGGREGATE DENSE

		305.0110 3/4-INCH	305.0120 1 1/4-INCH	624.0100 WATER
STATION	- STATION	TON	TON	MGAL
112+40	- 115+30	---	780	---
112+41	- 115+31	71	---	---
UNDISTRIBUTED		---	---	9
PROJECT 6580-10-71 TOTAL		71	780	9

ASPHALTIC ITEMS

		455.0605 TACK COAT	465.0105 ASPHALTIC SURFACE
STATION	- STATION	GAL	TON
112+40	- 115+30	109	284
112+41	- 115+31	28	72
PROJECT 6580-10-71 TOTAL		137	356

RIPRAP

		606.0100 RIPRAP LIGHT	645.0130 GEOTEXTILE TYPE R
STATION	- STATION	OFFSET	CY
113+00	- 113+95	LT	15
PROJECT 6580-10-71 TOTAL			62

EROSION CONTROL MOBILIZATION

		628.1905 MOBILIZATIONS EROSION CONTROL	628.1910 MOBILIZATION EMERGENCY EROSION CONTROL
PROJECT		EACH	EACH
6580-10-71		3	3
PROJECT 6580-10-71 TOTAL		3	3

ALL QUANTITIES CATEGORY 0010 UNLESS OTHERWISE NOTED.

DIVISION	FROM/TO STATION	LOCATION	205.0100 COMMON EXCAVATION (1)	SALVAGED/UNUSABLE PAVEMENT MATERIAL (3)	AVAILABLE MATERIAL (4)	UNEXPANDED FILL	EXPANDED FILL (5)	MASS ORDINATE +/- (6)	WASTE	208.0100 BORROW	
			CUT (2)				FACTOR 1.25				
STH 156 MAINLINE	112+00 to 116+00	MAINLINE	667	290	376	1,017	1,272	-895	0	895	
TOTAL			667	290	376	1,017	1,272	-895	0	895	
TOTAL COMMON EXC			667								

NOTES:

- (1) COMMON EXCAVATION IS THE SUM OF THE CUT AND EBS EXCAVATION COLUMNS. ITEM NUMBER 205.0100
- (2) SALVAGED/UNUSABLE PAVEMENT MATERIAL IS INCLUDED IN CUT.
- (3) SALVAGED/UNUSABLE PAVEMENT MATERIAL
- (4) AVAILABLE MATERIAL = CUT - SALVAGED/UNUSABLE PAVEMENT MATERIAL
- (5) EXPANDED FILL FACTOR = 1.25 **EXPANDED FILL = (UNEXPANDED FILL) * FILL FACTOR**
- (6) 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.

ALL QUANTITIES CATEGORY 0010 UNLESS OTHERWISE NOTED.

LANDSCAPING

STATION - STATION	OFFSET	625.0100 TOPSOIL SY	628.2008 EROSION MAT URBAN CLASS I TYPE B SY	629.0210 FERTILIZER TYPE B CWT	630.0120 SEEDING MIXTURE NO. 20 LB	630.0500 SEED WATER MGAL
CATEGORY 0010						
112+00 - 113+79	LT	460	460	0.3	9	11
112+00 - 113+75	RT	500	500	0.4	9	12
113+65 - 116+00	RT	570	570	0.4	11	13
114+16 - 116+00	LT	490	490	0.4	9	12
CATEGORY 0010 SUBTOTAL		2,020	2,020	1.5	38	48
CATEGORY 0020						
TEMPORARY DIVERSION UNDISTRIBUTED		40	40	0.1	1	1
CATEGORY 0020 SUBTOTAL		40	40	0	1	1
PROJECT 6580-10-71 TOTAL		2,060	2,060	1.6	39	49

EROSION CONTROL

STATION - STATION	OFFSET	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.7504 TEMPORARY DITCH CHECKS LF	628.7570 ROCK BAGS EACH
CATEGORY 0010					
112+00 - 113+26	RT	136	136	---	---
112+00 - 113+85	LT	200	200	---	---
112+93	LT	---	---	8	---
113+30	LT	---	---	8	---
113+89 - 116+00	RT	236	236	---	---
114+57 - 116+00	LT	164	164	---	---
UNDISTRIBUTED		---	---	---	30
CATEGORY 0010 SUBTOTAL		736	736	16	30
CATEGORY 0020					
TEMPORARY DIVERSION UNDISTRIBUTED		200	200	---	30
CATEGORY 0020 SUBTOTAL		200	200	---	30
PROJECT 6580-10-71 TOTAL		936	936	16	60

ALL QUANTITIES CATEGORY 0010 UNLESS OTHERWISE NOTED.

3

PERMANENT SIGNING

STATION	OFFSET	SIGN CODE	638.2602	638.3000
			REMOVING SIGNS TYPE II EACH	REMOVING SMALL SIGN SUPPORTS EACH
113+64	RT	W5-52R	1	1
113+80	LT	W5-52L	1	1
113+97	RT	W5-52R	1	1
114+11	LT	W5-52L	1	1
PROJECT 6580-10-71 TOTAL			4	4

TRAFFIC CONTROL

LOCATION	DAYS IN SERVICE	643.0420 TRAFFIC CONTROL BARRICADES TYPE III		643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A		643.0900 TRAFFIC CONTROL SIGNS		643.0900 TRAFFIC CONTROL COVERING SIGNS TYPE II		
		NO.	DAY	NO.	DAY	NO.	DAY	# OF SIGNS	# OF CYCLES	# OF TYPE II EACH
DETOUR ROUTE	60	---	---	---	---	218	13,080	14	1	14
ON STH 156	60	16	960	22	1,320	14	840	---	---	---
ELM ROAD	60					1	60	---	---	---
CTH X	60					1	60	---	---	---
PROJECT 6580-10-71 TOTAL		960		1,320		14,040		14		

3

TRAFFIC CONTROL SIGNS FIXED MESSAGE

PROJECT	LOCATION	DAYS IN SERVICE	643.1000
			TRAFFIC CONTROL SIGNS FIXED MESSAGE SF
6580-10-71	STH 156 EB	7	18
6580-10-71	STH 156 WB	7	18
PROJECT 6580-10-71 TOTAL			36

PAVEMENT MARKING ITEMS

STATION	- STATION	TYPE	646.1020 MARKING LINE EPOXY 4-INCH	
			WHITE LF	YELLOW LF
112+40	- 115+30	EDGE LINE (SOLID)	580	---
112+40	- 115+30	CENTERLINE (DASHED)	---	75
PROJECT 6580-10-71 TOTAL			655	

CONSTRUCTION STAKING

STATION	- STATION	650.4500	650.5000	650.9910	650.9920
		CONSTRUCTION STAKING SUBGRADE LF	CONSTRUCTION STAKING BASE LF	CONSTRUCTION STAKING SUPPLEMENTAL CONTROL 6580-10-71 LS	CONSTRUCTION STAKING SLOPE STAKES LF
112+40	- 115+30	290	290	---	290
6580-10-71		---	---	1	---
PROJECT 6580-10-71 TOTAL		290	290	1	290

SAWING ASPHALT

STATION	- STATION	LOCATION	690.0150 SAWING ASPHALT LF
112+40	-	STH 156	25
115+30	-	STH 156	25
PROJECT 6580-10-71 TOTAL			50

ALL QUANTITIES CATEGORY 0010 UNLESS OTHERWISE NOTED.

CONVENTIONAL SYMBOLS

SECTION LINE	---	PARCEL NUMBER		UTILITY NUMBER	
QUARTER LINE	---	SECTION CORNER		R/W MONUMENT	
SIXTEENTH LINE	---	NOTATION FOR COMBUSTIBLE FLUIDS		NON-MONUMENTED R/W POINT	
NEW REFERENCE LINE	---	NOTATION FOR HIGH VOLTAGE TRANSMISSION LINES		FOUND IRON PIN	IP
NEW R/W LINE	---	CAUTION		VALVE (GAS, WATER, ETC.)	
EXISTING R/W LINE	---			SIGN	
PROPERTY LINE	---			OFF-PREMISE SIGN	
LOT, TIE, AND OTHER MINOR LINES	---				
SLOPE INTERCEPT	---				
CORPORATE LIMITS	---				
UNDERGROUND FACILITY (COMMUNICATIONS, ELECTRIC, ETC.)	---				
FREE ACQUISITION AREA (HATCHING VARIES BY OWNER)	---				
TEMP. LIMITED EASEMENT AREA	---	ACCESS CONTROLLED BY ACQUISITION			
EASEMENT AREA (HIGHWAY, PERMANENT LIMITED, OR RESTRICTED DEVELOPMENT)	---	NO ACCESS (BY STATUTORY AUTHORITY)			
TRANSMISSION STRUCTURES	---	ACCESS RESTRICTED (BY PREVIOUS PROJECT OR CONTROL)			
BUILDING	---	NO ACCESS (NEW HIGHWAY)			
BUILDING (TO BE REMOVED)	---	NATIONAL GEODETIC SURVEY MONUMENT			
BRIDGE	---	SIXTEENTH CORNER MONUMENT			
		PARALLEL OFFSETS			

CONVENTIONAL ABBREVIATIONS

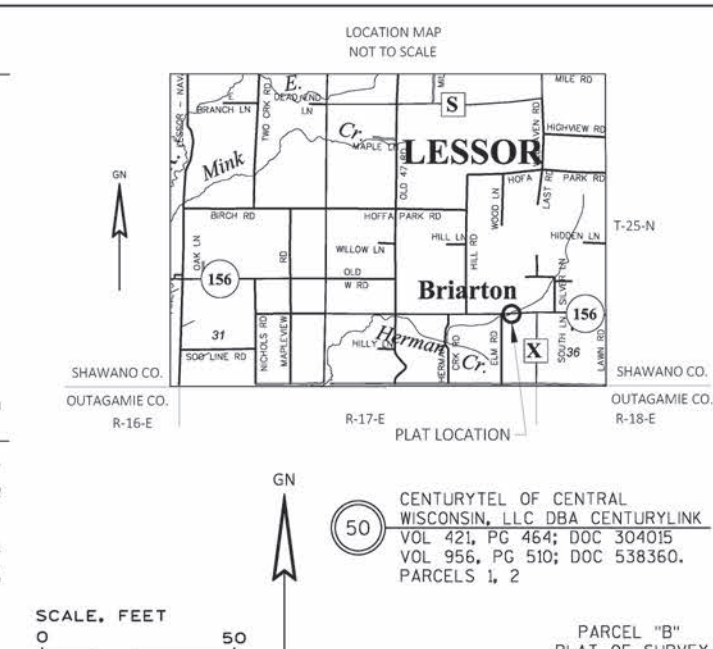
ACCESS RIGHTS	AR	OUTLOT	OL
ACRES	AC	PAGE	P
AHEAD	AH	POINT OF TANGENCY	PT
ALUMINUM	ALUM	PROPERTY LINE	PL
AND OTHERS	ET AL	RECORDED AS	(100')
BACK	BK	REEL / IMAGE	R/I
BLOCK	BLK	REFERENCE LINE	R/L
CENTERLINE	C/L	PERMANENT LIMITED EASEMENT	PLE
CERTIFIED SURVEY MAP	CSM	POINT OF BEGINNING	POB
CONCRETE	CONC	POINT OF CURVATURE	PC
COUNTY	CO	POINT OF COMPOUND CURVE	PCC
COUNTY TRUNK HIGHWAY	CTH	POINT OF INTERSECTION	PI
DISTANCE	DIST	REMAINING	REM
CORNER	COR	RESTRICTIVE DEVELOPMENT EASEMENT	RDE
DOCUMENT NUMBER	DOC	RIGHT	RT
EASEMENT	EASE	RIGHT OF WAY	R/W
EXISTING	EX	SECTION	SEC
GAS VALVE	GV	SEPTIC VENT	SEPV
GRID NORTH	GN	SQUARE FEET	SF
HIGHWAY EASEMENT	HE	STATE TRUNK HIGHWAY	STH
IDENTIFICATION	ID	STATION	STA
LAND CONTRACT	LC	TELEPHONE PEDESTAL	TP
LEFT	LT	TEMPORARY LIMITED EASEMENT	TLE
MONUMENT	MON	TRANSPORTATION PROJECT PLAT	TPP
NATIONAL GEODETIC SURVEY	NGS	UNITED STATES HIGHWAY	USH
NUMBER	NO	VOLUME	V

CONVENTIONAL UTILITY SYMBOLS

WATER	---	NON-COMPENSABLE		COMPENSABLE	
GAS	---				
TELEPHONE	---				
OVERHEAD TRANSMISSION LINES	---				
ELECTRIC	---				
CABLE TELEVISION	---				
FIBER OPTIC	---				
SANITARY SEWER	---				
STORM SEWER	---				
ELECTRIC TOWER	---				
POWER POLE	---				
TELEPHONE POLE	---				
TELEPHONE PEDESTAL	---				

CURVE DATA ABBREVIATIONS

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE	Δ / DELTA
LENGTH OF CURVE	L
TANGENT	T
DIRECTION AHEAD	DA
DIRECTION BACK	DB



TRANSPORTATION PROJECT PLAT NO: 6580 - 10 - 21 - 4.01

PART OF THE SOUTHWEST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 26 AND PART OF LOT 2 OF CERTIFIED SURVEY MAP 4035 LOCATED IN THE NORTHWEST 1/4 OF THE NORTHEAST 1/4 OF SECTION 35, TOWNSHIP 25 NORTH, RANGE 17 EAST, TOWN OF LESSOR, SHAWANO COUNTY, WISCONSIN.

RELOCATION ORDER STH 156 SHAWANO COUNTY CLINTONVILLE - HOWARD, HERMAN CREEK CROSSING, B-58-0010

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09, AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

- THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE NAMED PROJECT.
- THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

DOC # 750616
 Recorded 08-26-2020 at 2:31 PM
 AMY DILLENBURG
 REGISTER OF DEEDS - Shawano County
 Pages: 1 Fee Amount: \$25.00

***The above recording information verifies this document has been electronically recorded and returned to WisDOT - NC Region - Rhineland.

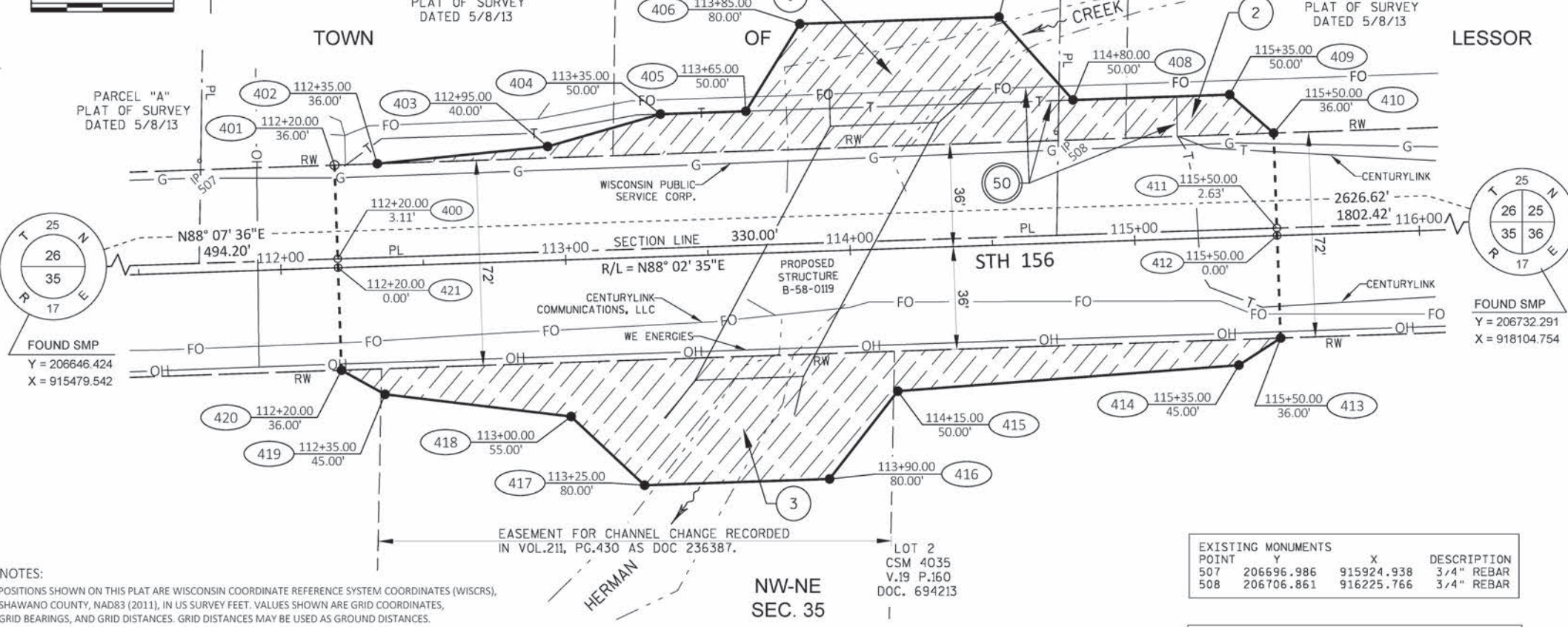
RESERVED FOR REGISTER OF DEEDS
 PROJECT NUMBER 6580-10-21-4.01
 AMENDMENT NO. _____

SCHEDULE OF LANDS & INTERESTS REQUIRED

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	HE SQ. FT. REQUIRED			TOTAL	TLE SQ. FT.
			NEW	EXISTING			
1	RUEDEN FAMILY TRUST	HE	5196	-----	5196	-----	
2	RUEDENS EDEN FARMS & APARTMENTS, LLC	HE	964	-----	964	-----	
3	DENNIS J. MOELLER	HE	6798	-----	6798	-----	

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
50	CENTURYTEL OF CENTRAL WISCONSIN, LLC DBA CENTURYLINK (FIBER OPTIC, TELEPHONE)	RELEASE OF RIGHTS



NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WICRS), SHAWANO COUNTY, NAD83 (2011), IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GRID DISTANCES.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY 3/4"X24" IRON REBARS) UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

ALL RIGHT-OF-WAY LINES DEPICTED IN THE NON-ACQUISITION AREAS ARE INTENDED TO RE-ESTABLISH EXISTING RIGHT-OF-WAY LINES AS DETERMINED FROM PREVIOUS PROJECTS, OTHER RECORDED DOCUMENTS, OR FROM CENTERLINE OF EXISTING PAVEMENTS.

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS" OF PUBLIC RECORD.

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO THE NEW REFERENCE LINES.

AN EASEMENT FOR HIGHWAY PURPOSES (HE), AS LONG AS SO USED, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE. PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN RHINELANDER, WISCONSIN.

PARCEL AND UTILITY IDENTIFICATION NUMBERS MAY NOT POINT TO ALL AREAS OF ACQUISITION.

RW COURSE TABLE

COURSE	BEARING	DISTANCE
400-401	N01°57'25"W	32.89'
401-402	N88°02'35"E	15.00'
402-403	N84°13'44"E	60.13'
403-404	N74°00'25"E	41.23'
404-405	N88°02'35"E	30.00'
405-406	N31°43'59"E	36.06'
406-407	N88°02'35"E	70.00'
407-408	S41°45'45"E	39.05'
408-409	N88°02'35"E	55.00'
409-410	S48°55'55"E	20.52'
410-411	S01°57'25"E	33.37'
411-412	S01°57'25"E	2.63'
412-413	S01°57'25"E	36.00'
413-414	S57°04'45"W	17.49'
414-415	S85°39'26"W	120.10'
415-416	S37°50'55"W	39.05'
416-417	S88°02'35"W	65.00'
417-418	N46°57'25"W	35.36'
418-419	N83°12'39"W	65.76'
419-420	N60°59'35"W	17.49'
420-421	N01°57'25"W	36.00'
421-400	N01°57'25"W	3.11'

RW COORDINATE TABLE

POINT	Y	X
400	206662.580	915973.477
401	206695.451	915972.354
402	206695.963	915987.346
403	206702.009	916047.174
404	206713.369	916086.809
405	206714.394	916116.792
406	206745.059	916135.756
407	206747.450	916205.715
408	206718.321	916231.725
409	206720.199	916286.693
410	206706.720	916302.162
411	206673.368	916303.301
412	206670.741	916303.391
413	206634.762	916304.621
414	206625.255	916289.937
415	206616.160	916170.177
416	206585.323	916146.216
417	206583.104	916081.254
418	206607.236	916055.415
419	206615.010	915990.112
420	206623.493	915974.813
421	206659.472	915973.584

EXISTING MONUMENTS

POINT	Y	X	DESCRIPTION
507	206696.986	915924.938	3/4" REBAR
508	206706.861	916225.766	3/4" REBAR

BASIS OF EXISTING RIGHT OF WAY

ROAD NAME	PROJECT/SURVEY	VOL.	PG.	DOC.
STH 156	S 0114 (4)			
STH 156	CSM 4035	19	160	694213

I, DONALD J. BUZA, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED THIS TRANSPORTATION PROJECT PLAT AND SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

SIGNATURE: *Donald J. Buza* DATE: 4/1/2020
 PRINT NAME: DONALD J. BUZA
 REGISTRATION NUMBER: S-2338

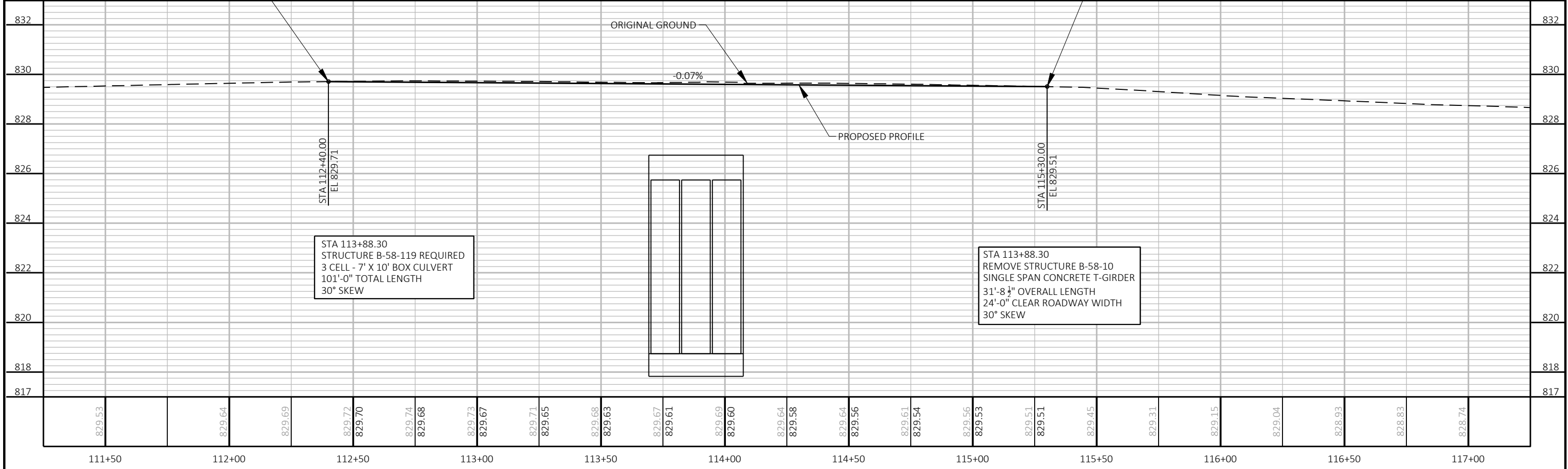
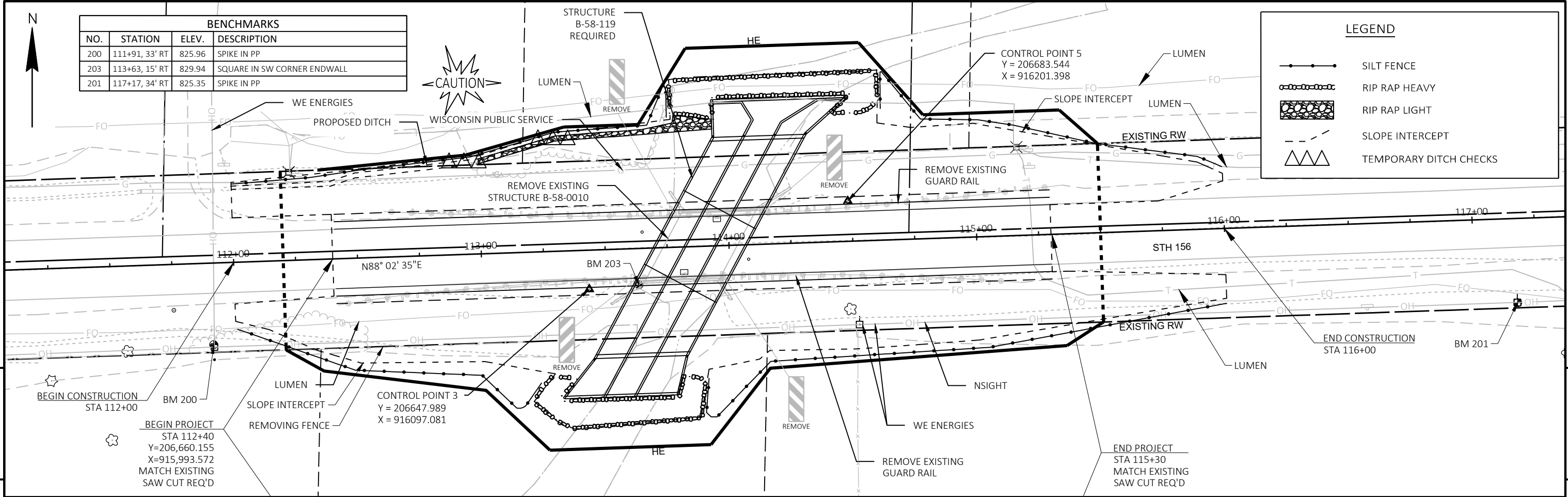
THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION NORTH CENTRAL REGION OFFICE.

SIGNATURE: *Brent L. Stella* DATE: 8-26-2020
 PRINT NAME: BRENT L. STELLA



BENCHMARKS			
NO.	STATION	ELEV.	DESCRIPTION
200	111+91, 33' RT	825.96	SPIKE IN PP
203	113+63, 15' RT	829.94	SQUARE IN SW CORNER ENDWALL
201	117+17, 34' RT	825.35	SPIKE IN PP

LEGEND	
	SILT FENCE
	RIP RAP HEAVY
	RIP RAP LIGHT
	SLOPE INTERCEPT
	TEMPORARY DITCH CHECKS

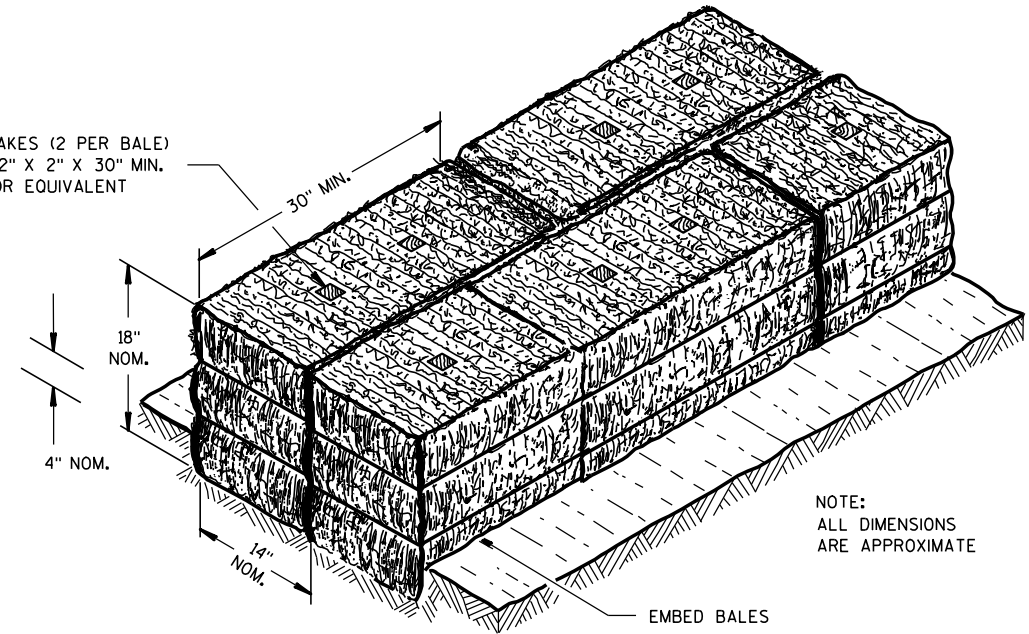


PROJECT NO: 6580-10-71	HWY: STH 156	COUNTY: SHAWANO	PLAN AND PROFILE: STH 156	SHEET E
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Standard Detail Drawing List

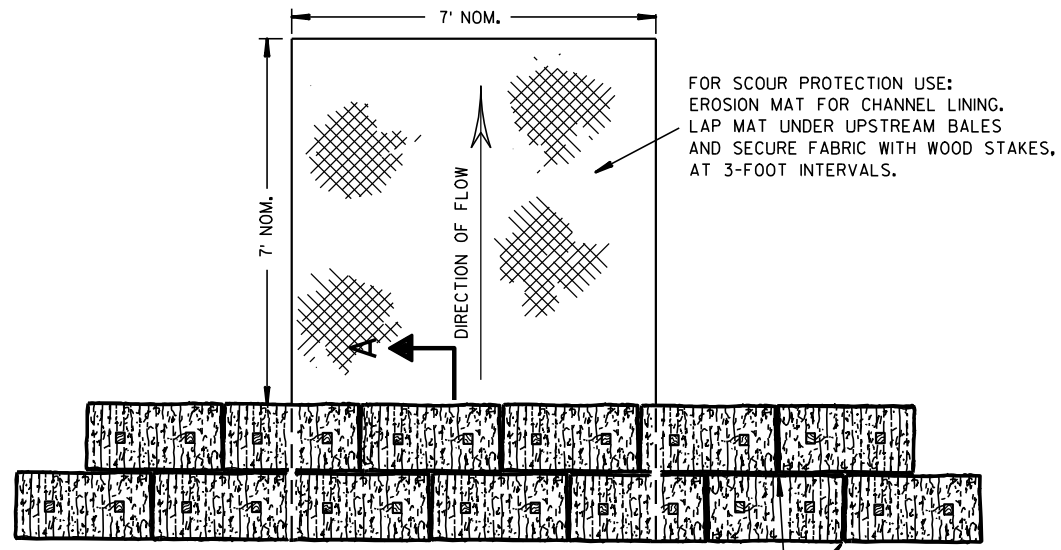
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
12A03-10	NAME PLATE (STRUCTURES)
13C19-03	HMA LONGITUDINAL JOINTS
15C02-08A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-08B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C02-08C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C03-05	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C08-20A	LONGITUDINAL MARKING (MAINLINE)
15C11-09B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

WOOD STAKES (2 PER BALE)
NOMINAL 2" X 2" X 30" MIN.
LENGTH OR EQUIVALENT



NOTE:
ALL DIMENSIONS
ARE APPROXIMATE

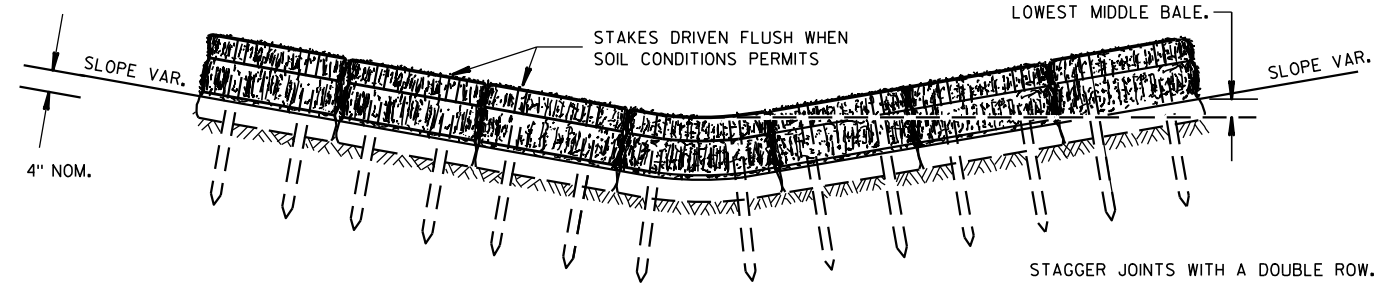
SECTION A-A



PLAN VIEW

STAGGER JOINTS BETWEEN ADJACENT ROWS OF BALES.

BOTTOM ELEVATION OF END BALE SHALL BE EQUAL TO OR GREATER THAN TOP OF LOWEST MIDDLE BALE.



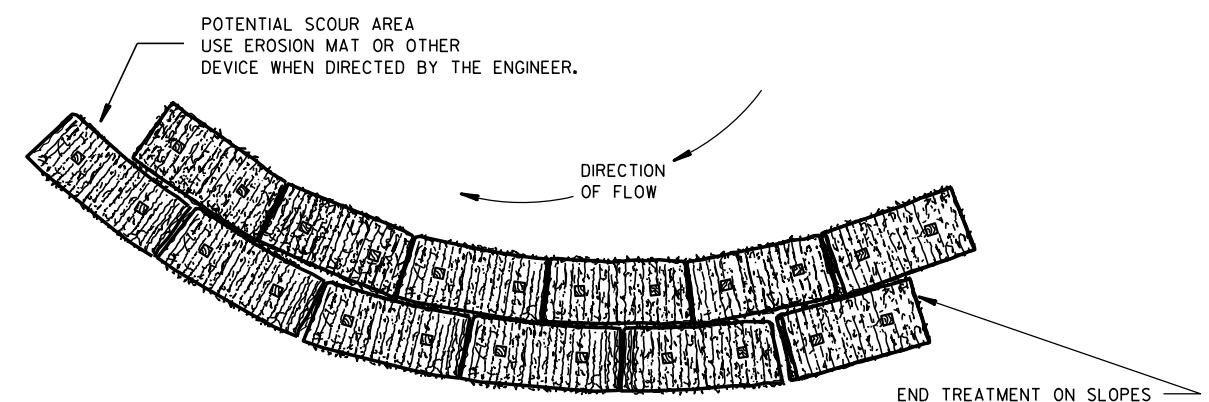
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES ①

GENERAL NOTES

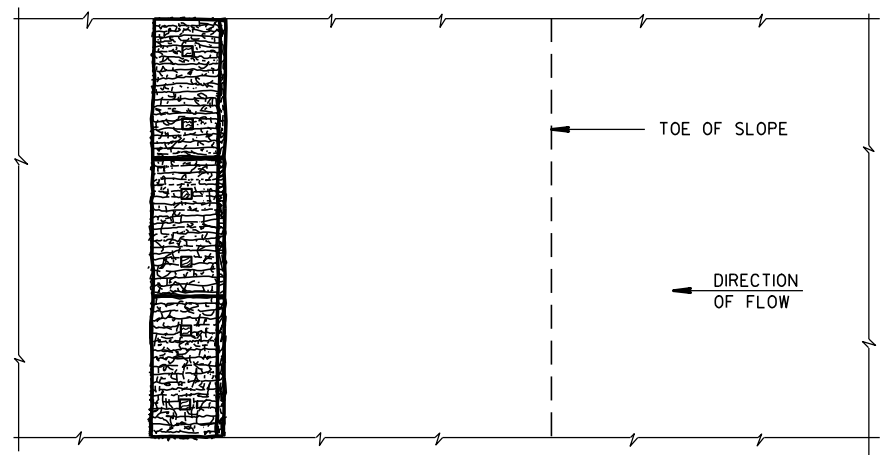
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

- ① TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.

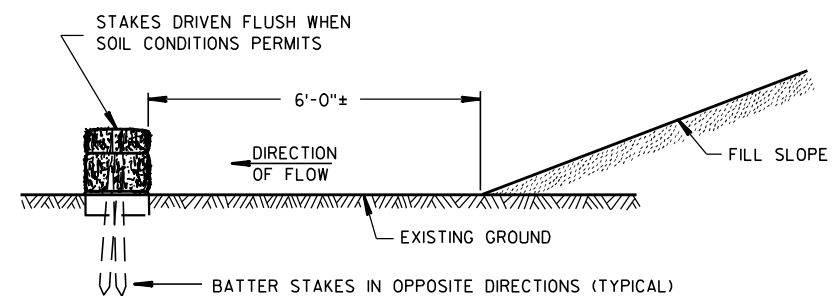


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

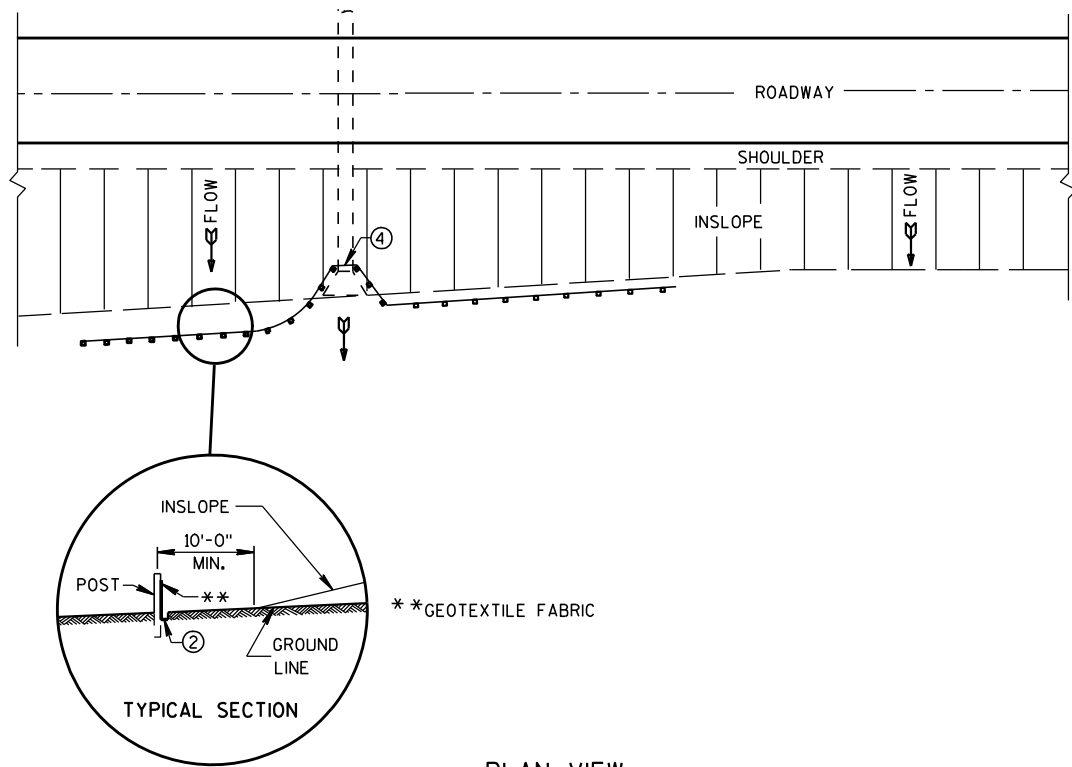
WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

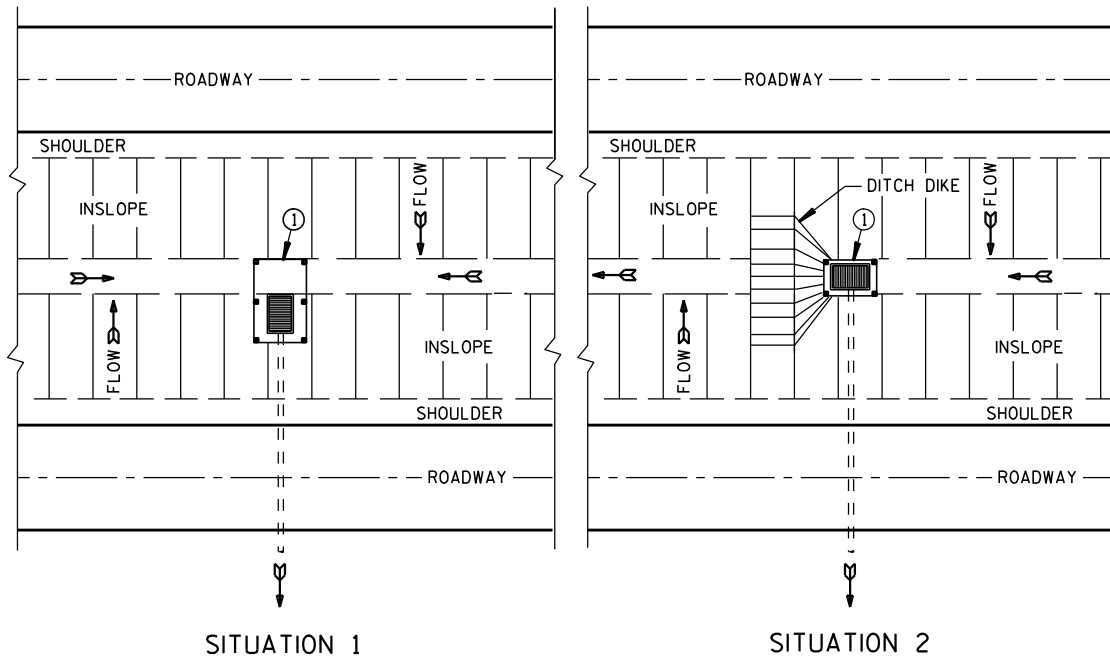
TYPICAL INSTALLATIONS OF
EROSION BALES / TEMPORARY
DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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



PLAN VIEW
TYPICAL APPLICATION OF SILT FENCE

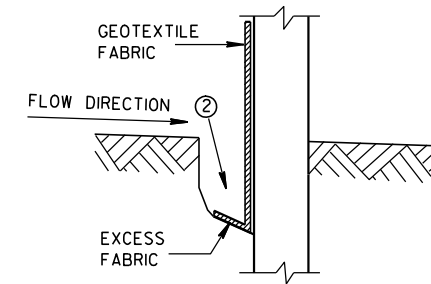


SITUATION 1 SITUATION 2
PLAN VIEW
SILT FENCE AT MEDIAN SURFACE DRAINS

GENERAL NOTES

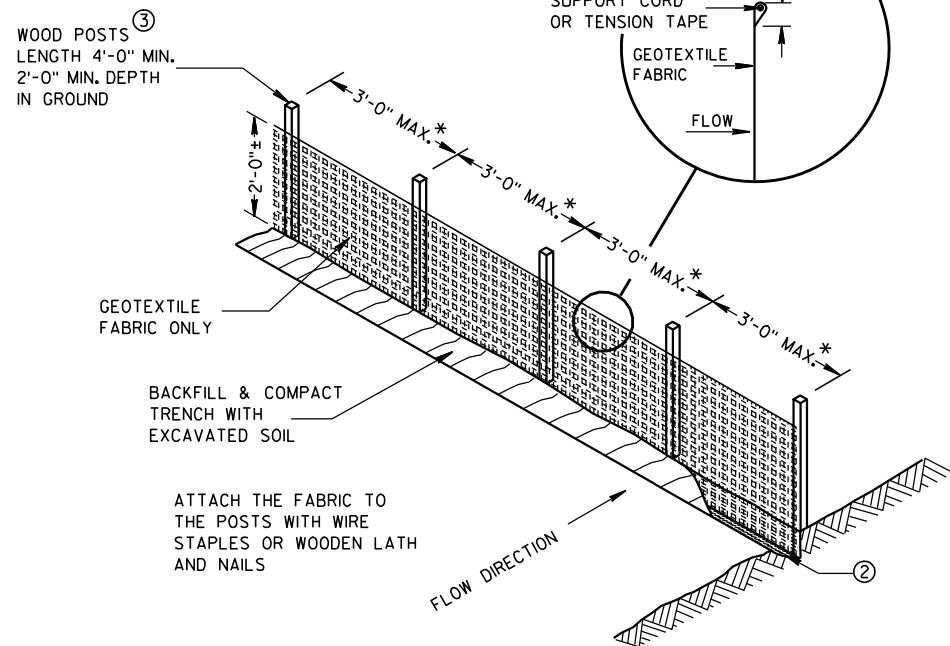
DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

- ① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
- ② FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- ③ WOOD POSTS SHALL BE A MINIMUM SIZE OF 1 1/8" X 1 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.



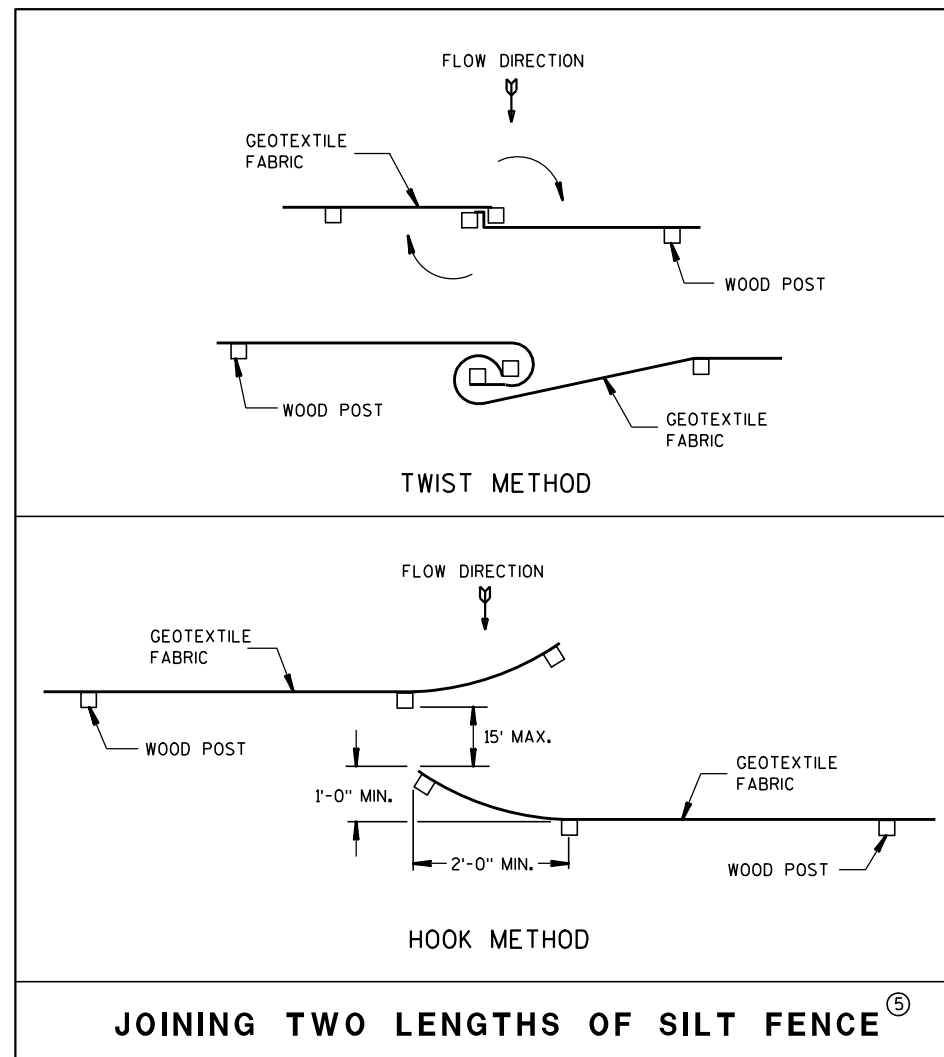
TRENCH DETAIL

NOTE: ADDITIONAL POST DEPTH OR TIE BACKS MAY BE REQUIRED IN UNSTABLE SOILS

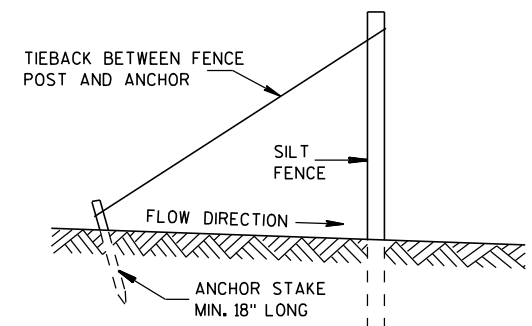


SILT FENCE

* NOTE: 8'-0" POST SPACING ALLOWED IF A WOVEN GEOTEXTILE FABRIC IS USED.



JOINING TWO LENGTHS OF SILT FENCE ⑤

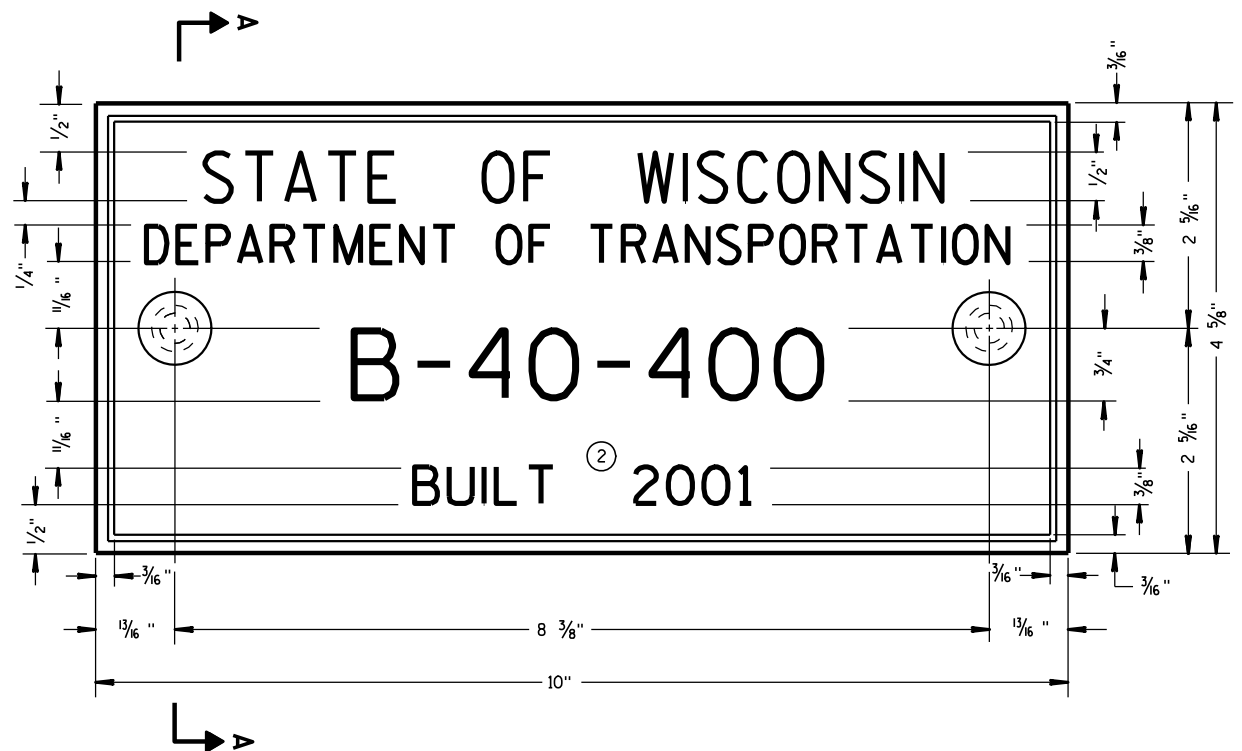


SILT FENCE TIE BACK
(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4-29-05 /S/ Beth Canestra
DATE CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA



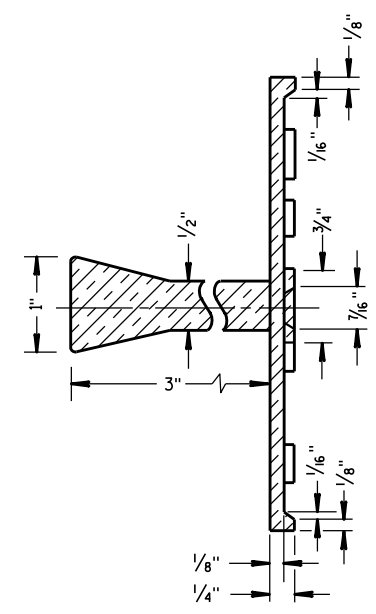
TYPICAL NAME PLATE
(BRIDGES, CULVERTS, AND RETAINING WALLS)

GENERAL NOTES

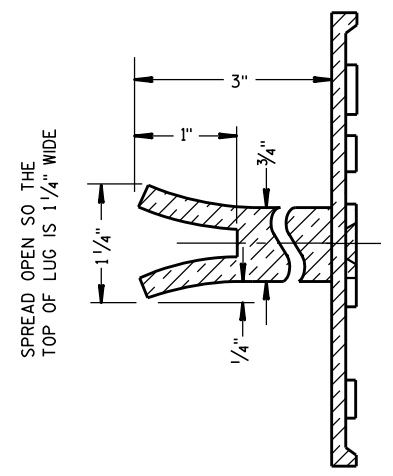
NAME PLATES TO BE INSTALLED ON BRIDGES, CULVERTS, AND RETAINING WALLS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS.

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

- ① EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- ② REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



SECTION A-A



ALTERNATE LUG

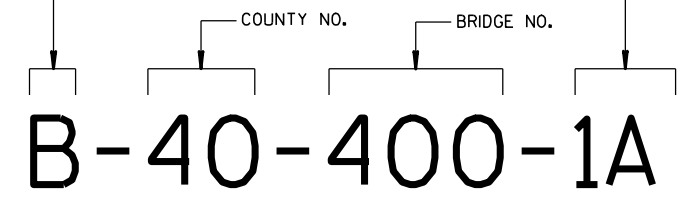
6

6

FOR MULTI-UNIT STRUCTURES
LINE 3 ABOVE SHALL READ

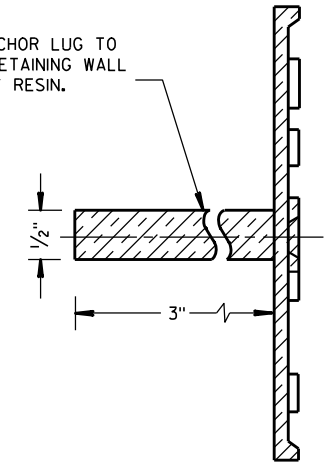
B = BRIDGE
C = CULVERT
R = RETAINING WALL

UNIT NO. FOR MULTIPLE
UNIT BRIDGE



**NUMBERING DESIGNATION
MULTI-UNIT STRUCTURES**

- ① ADHERE ANCHOR LUG TO PRECAST RETAINING WALL WITH EPOXY RESIN.

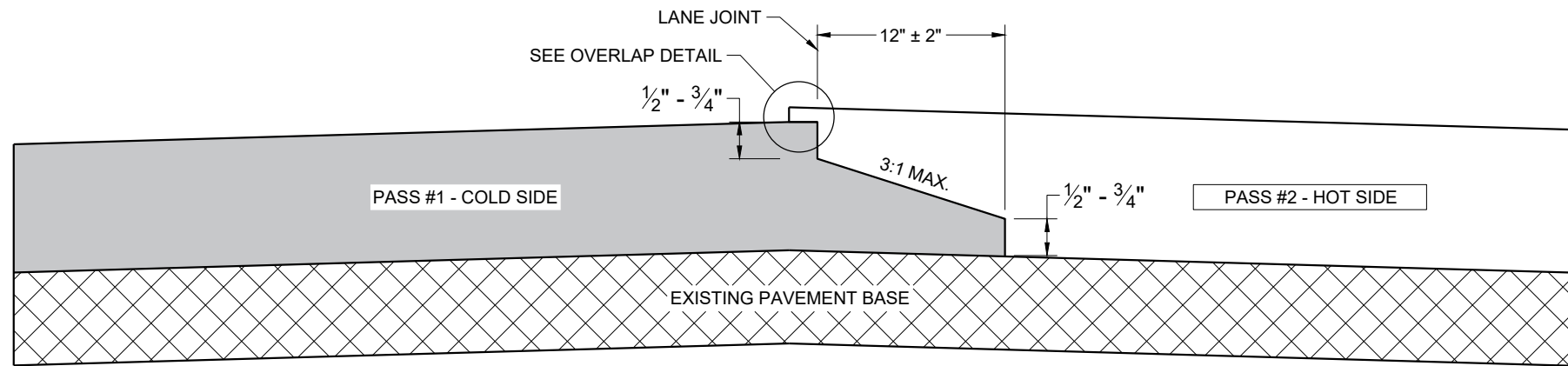


ALTERNATE LUG
(FOR ATTACHMENT TO PRECAST STRUCTURES)

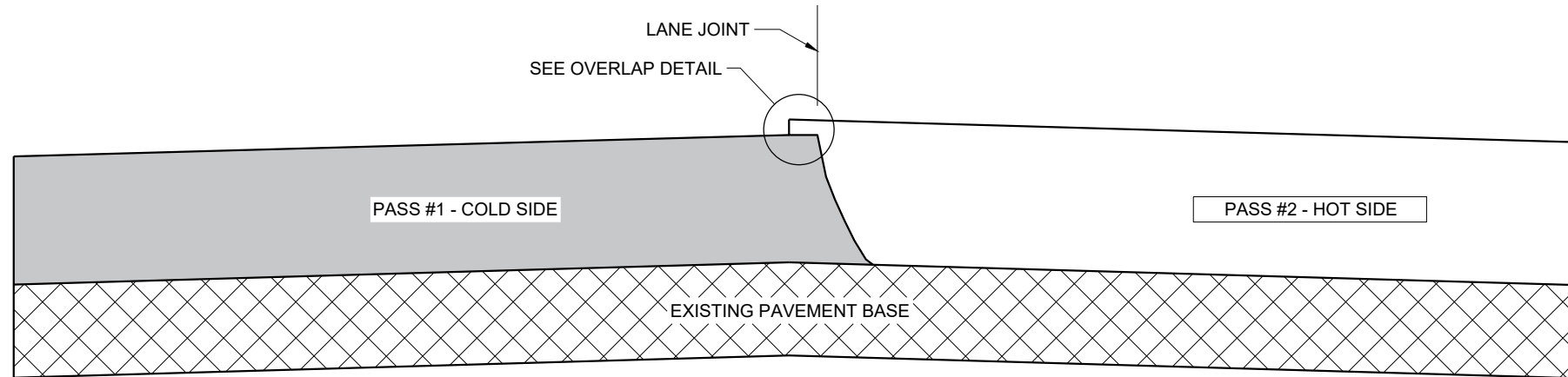
S.D.D. 12 A 3-10

S.D.D. 12 A 3-10

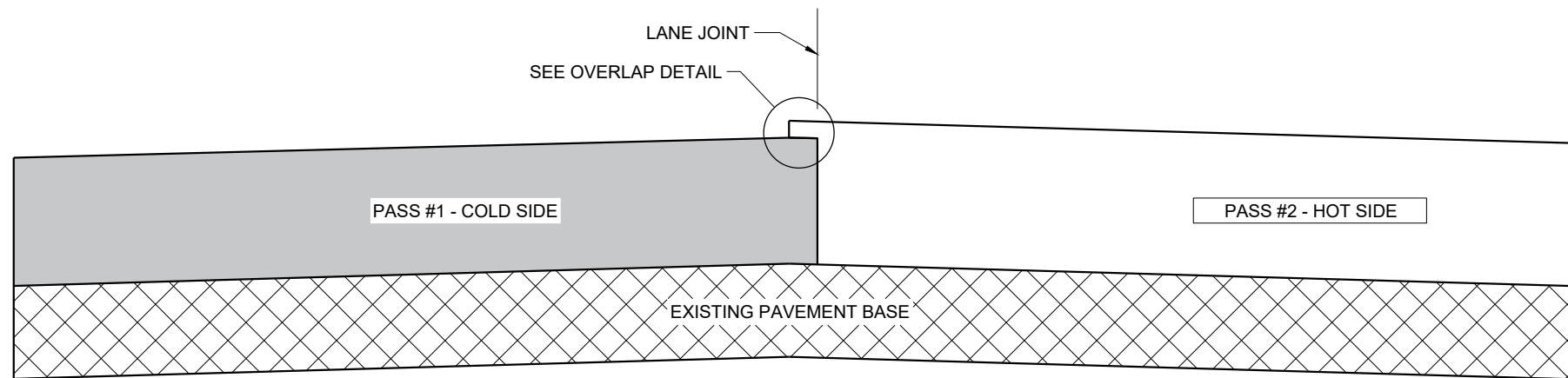
NAME PLATE (STRUCTURES)	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED DATE 3/26/10	/S/ Scot Becker CHIEF STRUCTURAL DEVELOPMENT ENGINEER
FHWA	



TYPICAL PAVEMENT CROSS SECTION NOTCHED WEDGE JOINT



TYPICAL PAVEMENT CROSS SECTION VERTICAL JOINT



TYPICAL PAVEMENT CROSS SECTION VERTICAL JOINT (MILLED)

GENERAL NOTES

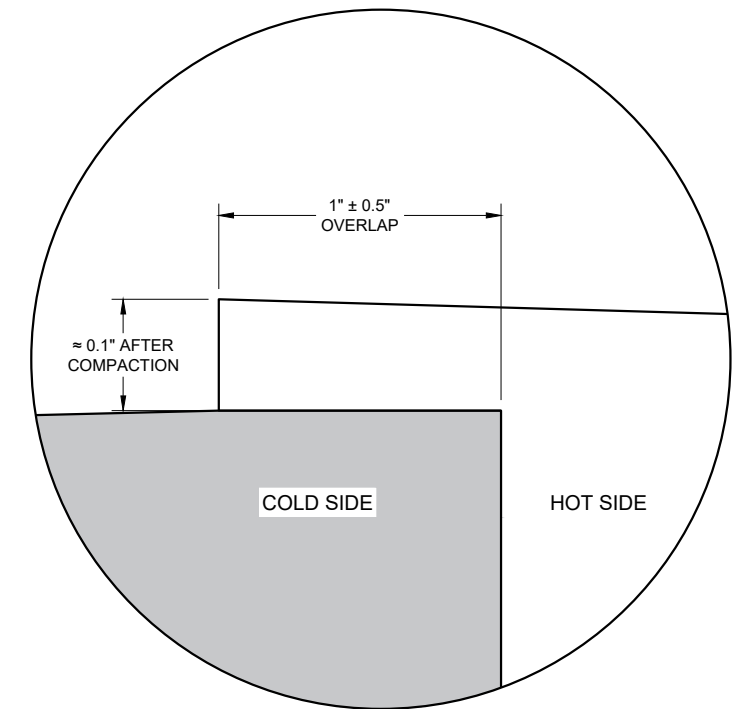
IN ADDITION TO THE DETAILS PROVIDED IN THIS DRAWING, CONFORM TO STANDARD SPECIFICATION 450.3.2.8 FOR WHEN A NOTCHED WEDGE JOINT IS REQUIRED AND FOR GENERAL JOINT CONSTRUCTION REQUIREMENTS.

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)

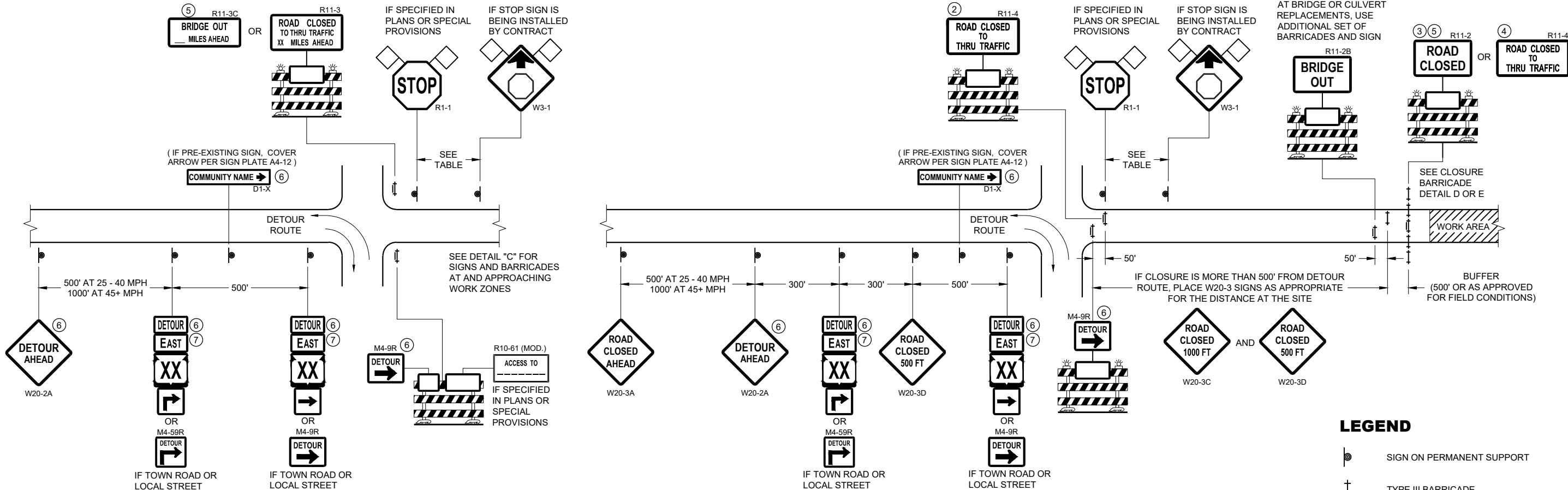
6

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**

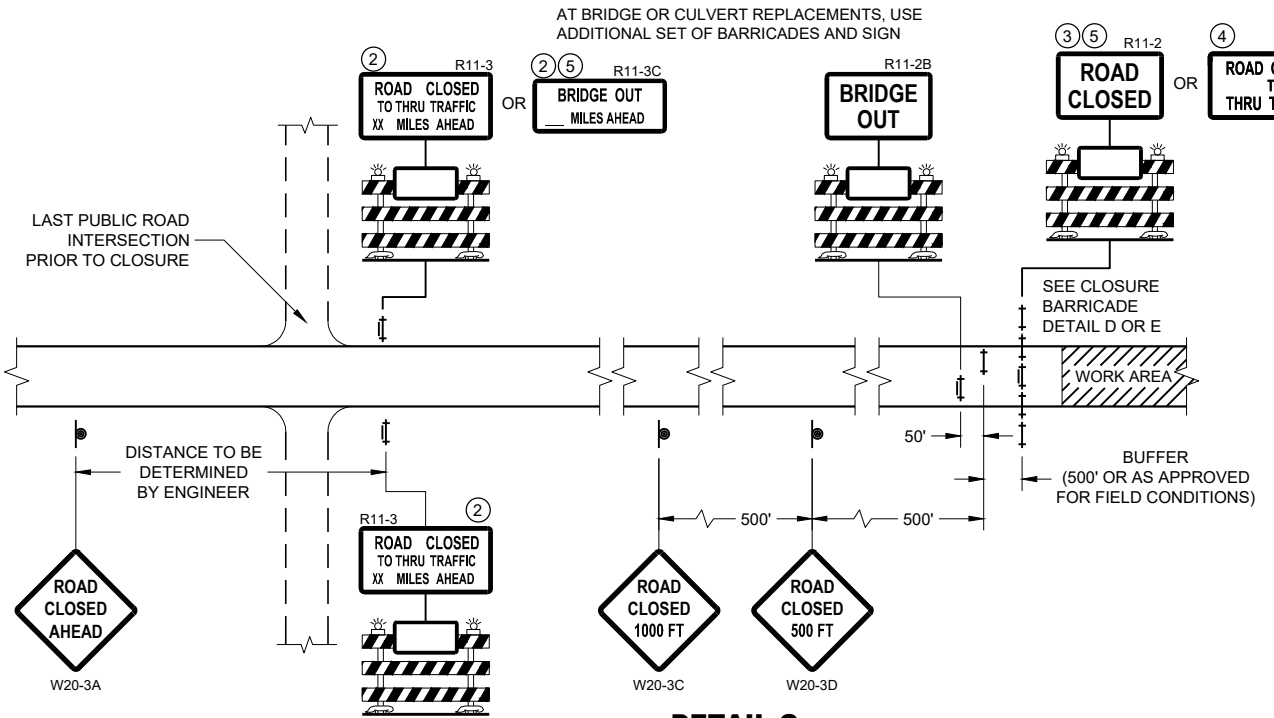
WORK ZONE LESS THAN 1/2 MILE FROM
DETOUR ROUTE (1000 FEET IF URBAN)

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



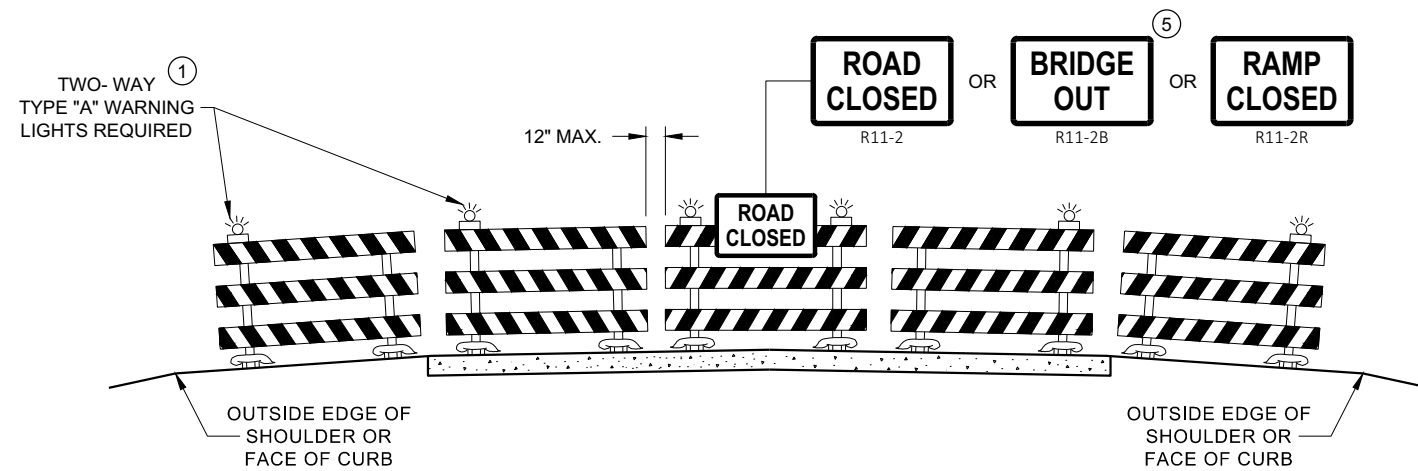
**DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR**

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

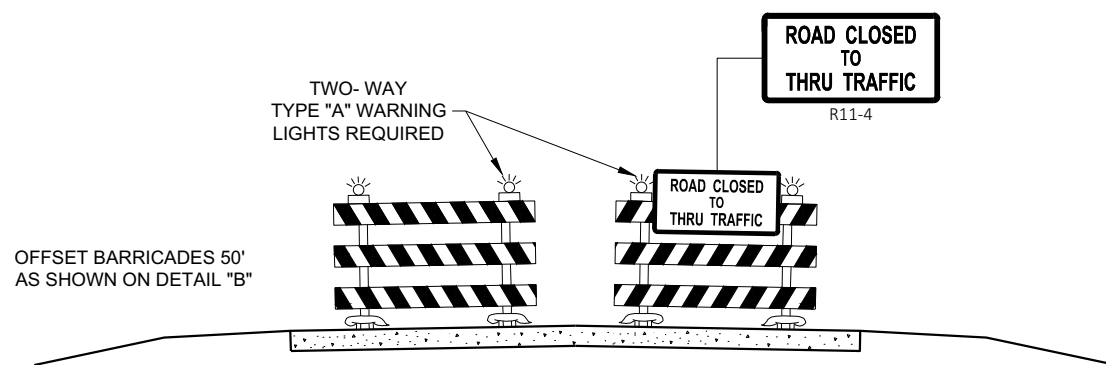
**BARRICADES AND SIGNS
FOR MAINLINE CLOSURES**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020 /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"

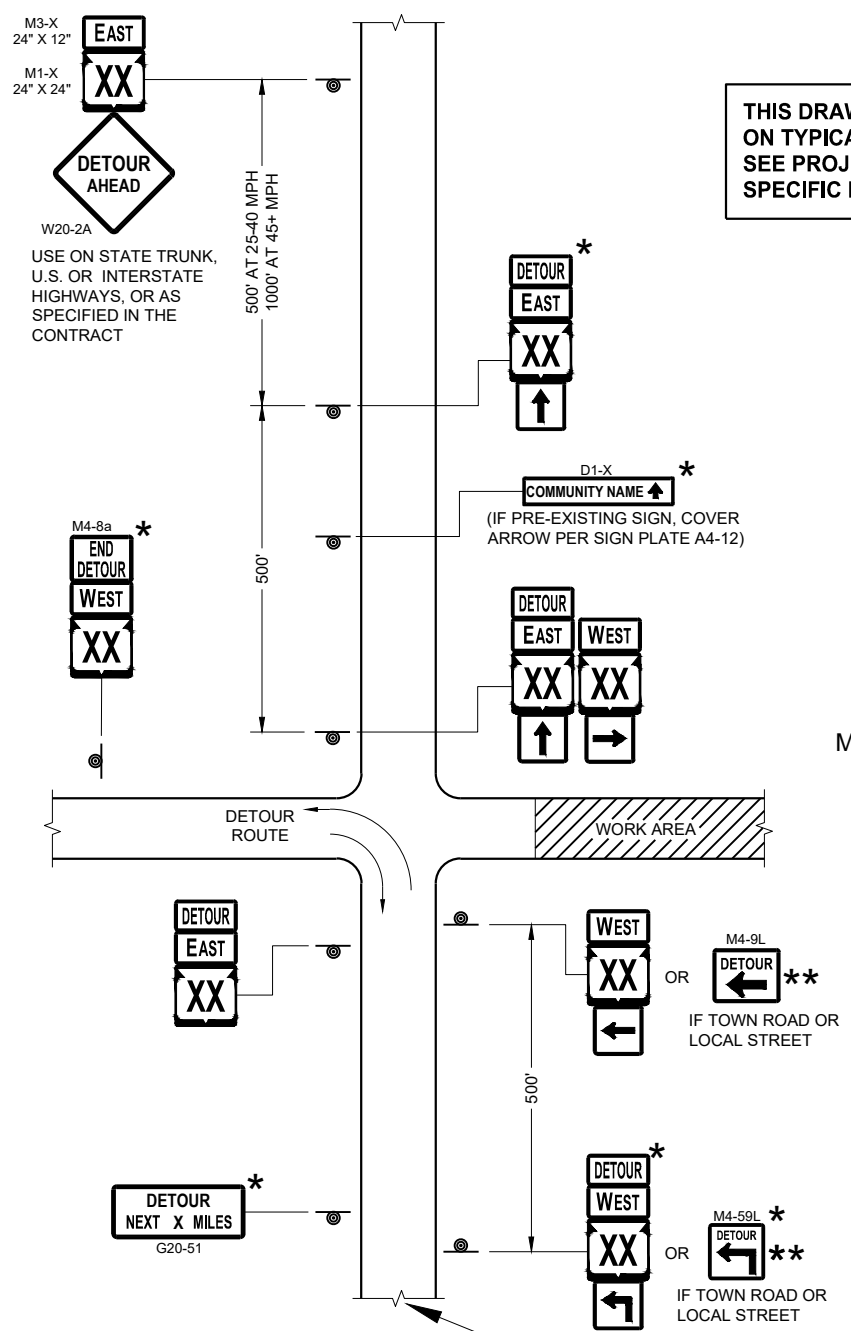
- ① TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING).
- ② THESE SIGNS 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
February 2020 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER

FHWA



THIS DRAWING PROVIDES GENERAL GUIDANCE ON TYPICAL DETOUR SIGN LAYOUT AND SPACING. SEE PROJECT DETOUR SIGNING SHEETS FOR SPECIFIC DETAILS FOR EACH PROJECT.

LEGEND

- SIGN ON PERMANENT SUPPORT
- WORK AREA
- M4 - 8
- M3 - X
- M1 - 4
- M1 - 6
- M1 - 5A
- M05 - 1
- M06 - 1
- M06 - 1

GENERAL NOTES

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

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. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.

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

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.

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

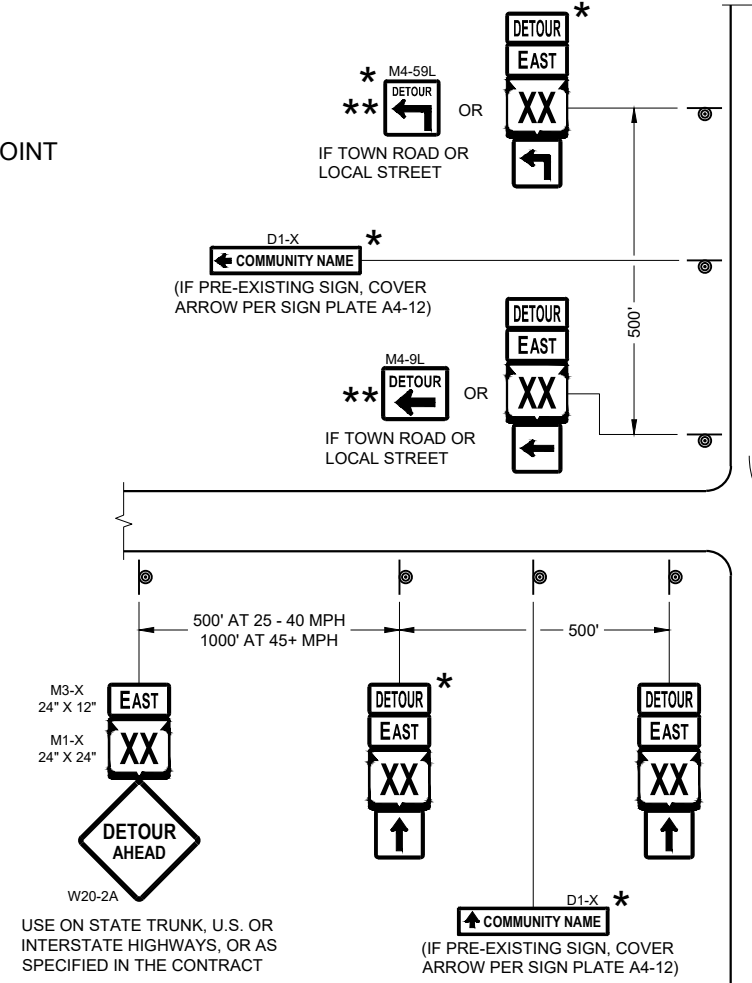
"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGN SIZES SHALL BE AS FOLLOWS:

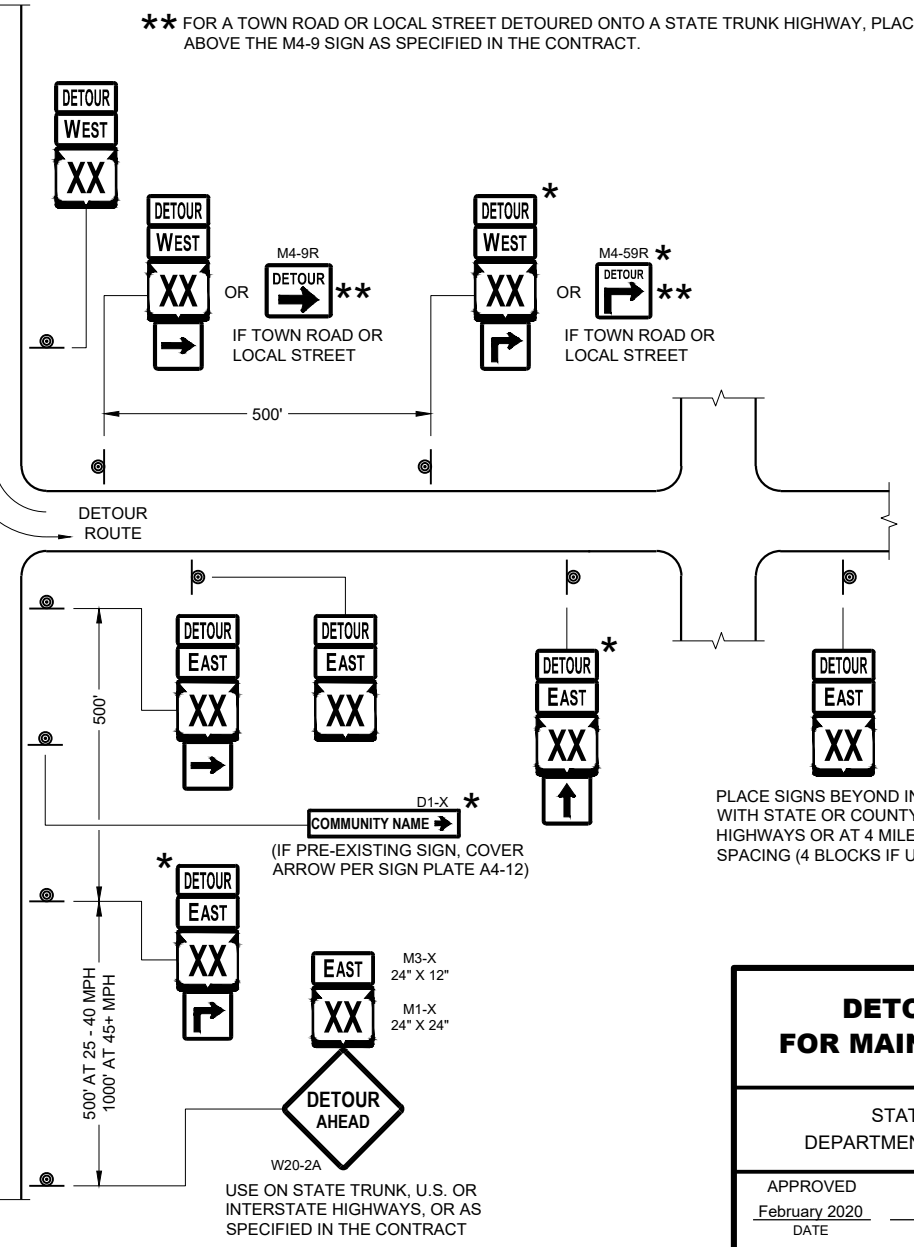
- M3-X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4-8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1-4, M1-5A AND M1-6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
- M05-1 AND M06-1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- M4-9 AND M4-59 SHALL BE 30" X 24"
- M4-8a SHALL BE 24" X 18"
- G20-51 SHALL BE 60" X 24"
- W20-2A SHALL BE 48" X 48"
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

- * OPTIONAL SIGNS. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS.
- ** FOR A TOWN ROAD OR LOCAL STREET DETOURED ONTO A STATE TRUNK HIGHWAY, PLACE A ROAD NAME PLAQUE ABOVE THE M4-9 SIGN AS SPECIFIED IN THE CONTRACT.

MATCH POINT



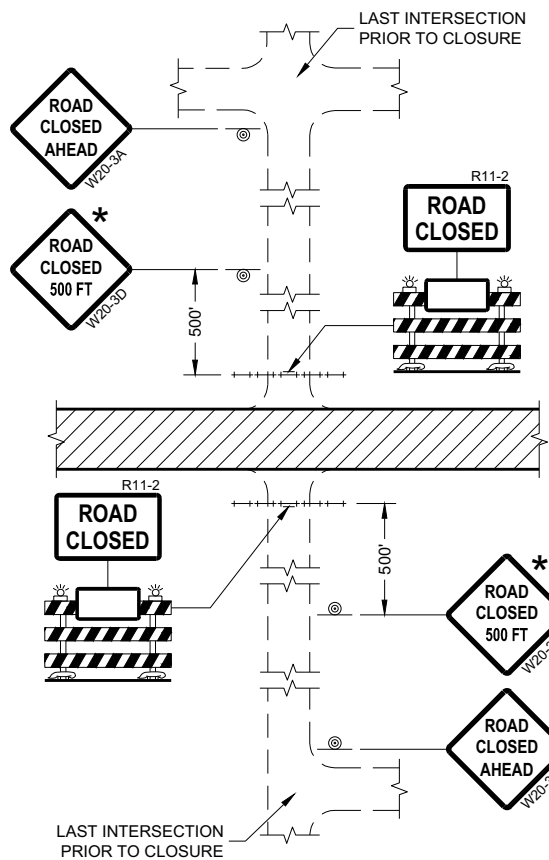
**DETAIL F
DETOUR SIGNING**



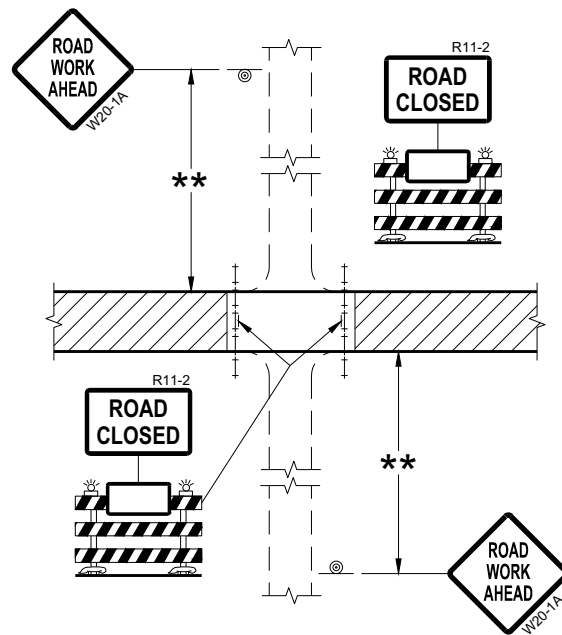
PLACE SIGNS BEYOND INTERSECTIONS WITH STATE OR COUNTY TRUNK HIGHWAYS OR AT 4 MILE MAXIMUM SPACING (4 BLOCKS IF URBAN AREA)

SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS AND DETAIL A OR B ON SDD SHEET 15C02 - SHEET "a"

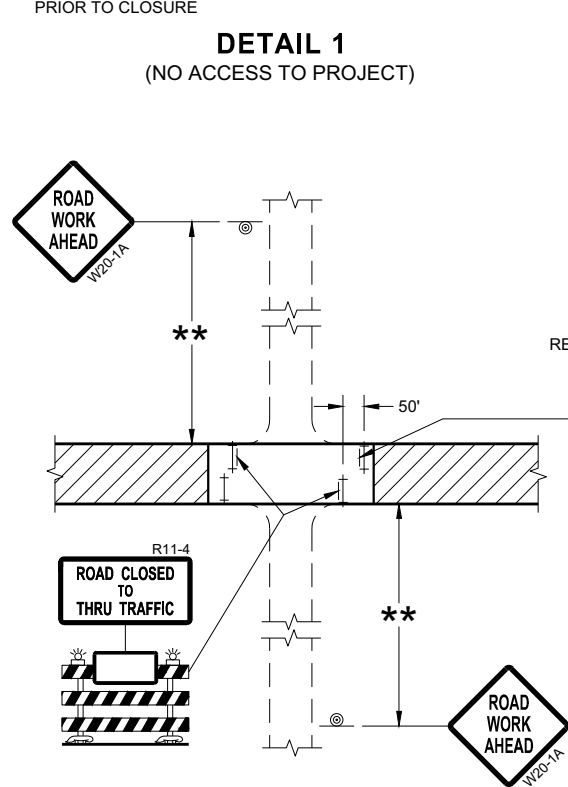
DETOUR SIGNING FOR MAINLINE CLOSURES	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED February 2020 DATE	/S/ Andrew Heidtke WORK ZONE ENGINEER
FHWA	



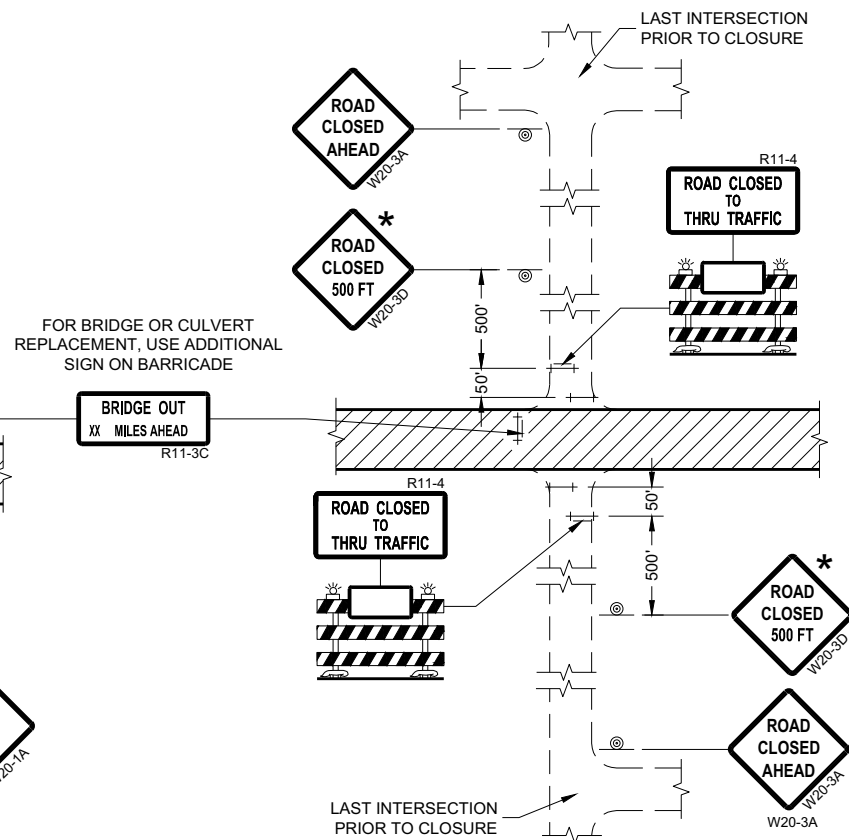
DETAIL 1
(NO ACCESS TO PROJECT)



DETAIL 2
(PUBLIC CROSS-TRAFFIC MAINTAINED.
NO ACCESS TO PROJECT)



DETAIL 3
(PUBLIC CROSS-TRAFFIC MAINTAINED.
CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)



DETAIL 4
(CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)

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 (500 FEET DESIRABLE) TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

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

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

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

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

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

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

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

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

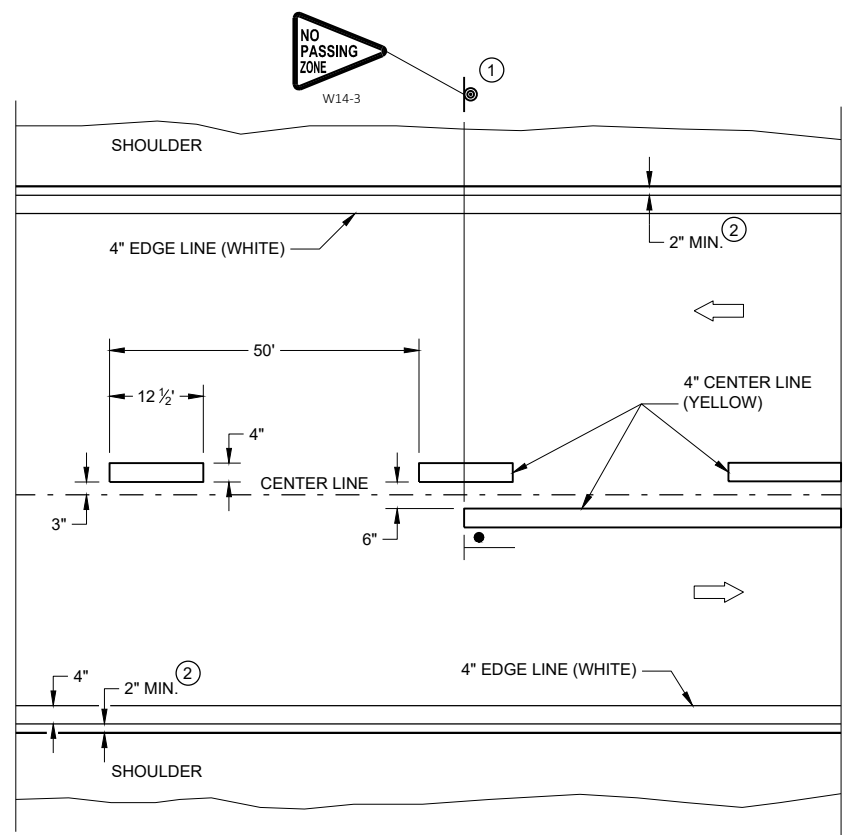
LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA

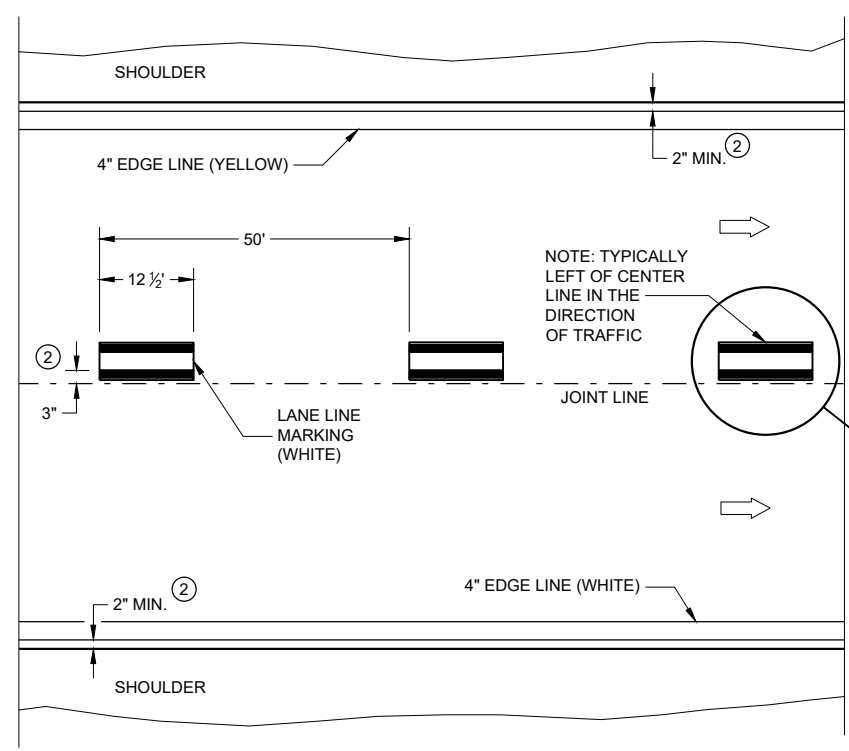
**BARRICADES AND SIGNS
FOR
SIDEROAD CLOSURES**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

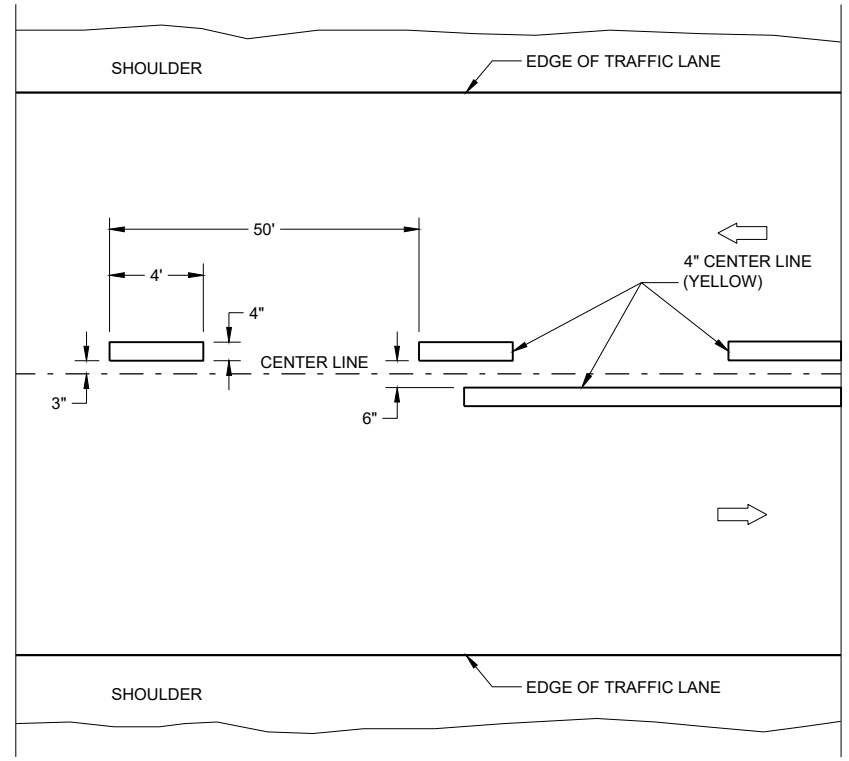


TWO WAY TRAFFIC

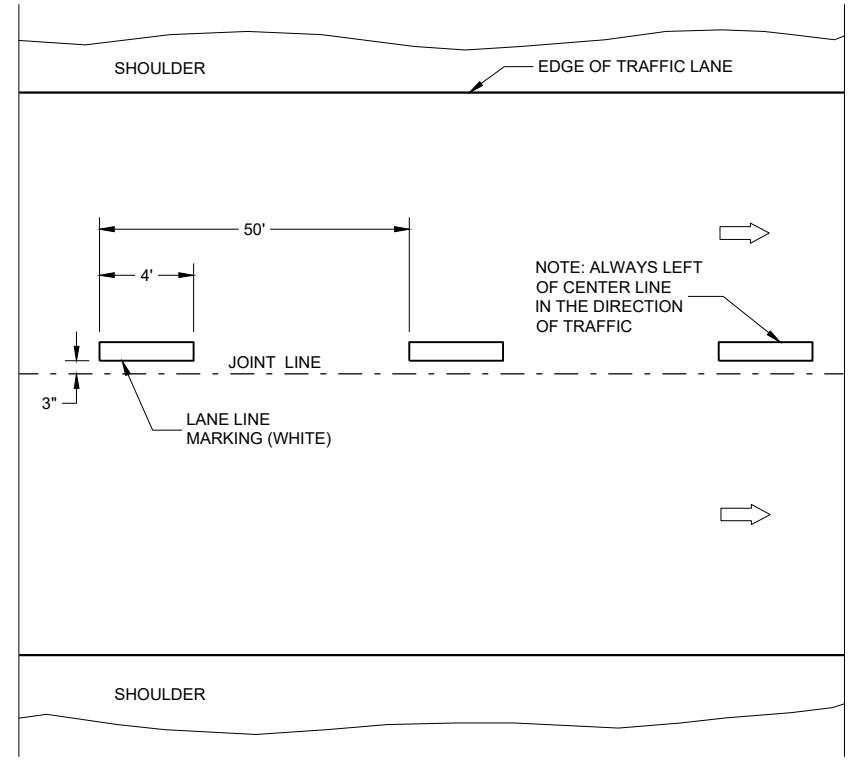


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY PAVEMENT MARKING

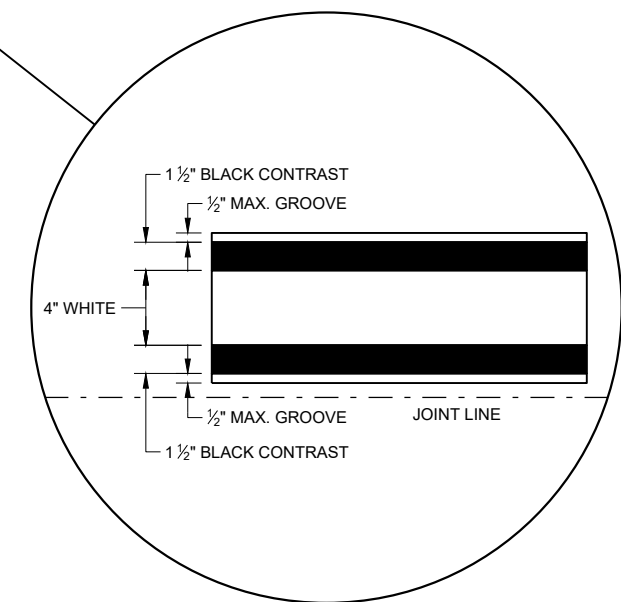
GENERAL NOTES

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

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

LEGEND

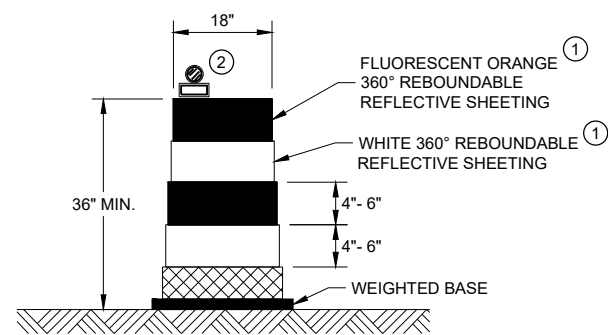
- "T" MARKING
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC



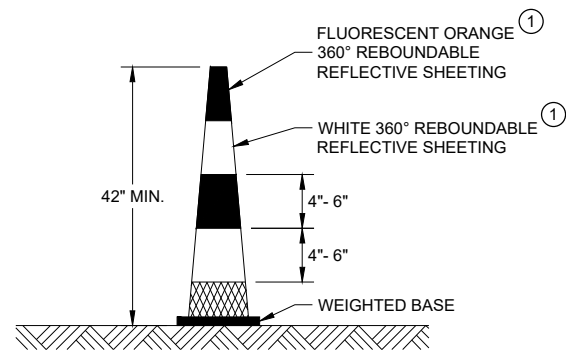
LONGITUDINAL MARKING (MAINLINE)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED
 February 2020 /S/ Matthew Rauch
 DATE STATEWIDE SIGNING AND MARKING ENGINEER
 FHWA



DRUM

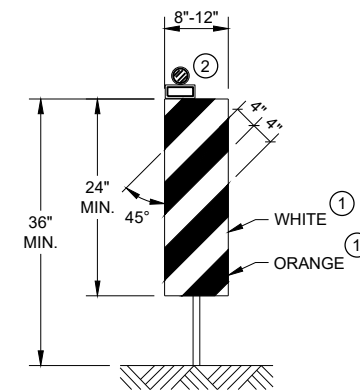


42" CONE

DO NOT USE IN TAPERS
1/2 SPACING OF DRUMS

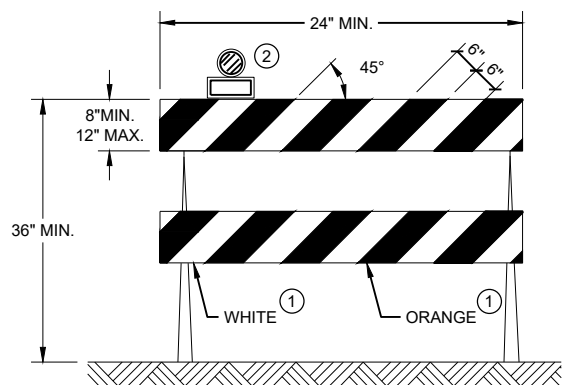
GENERAL NOTES

- 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.



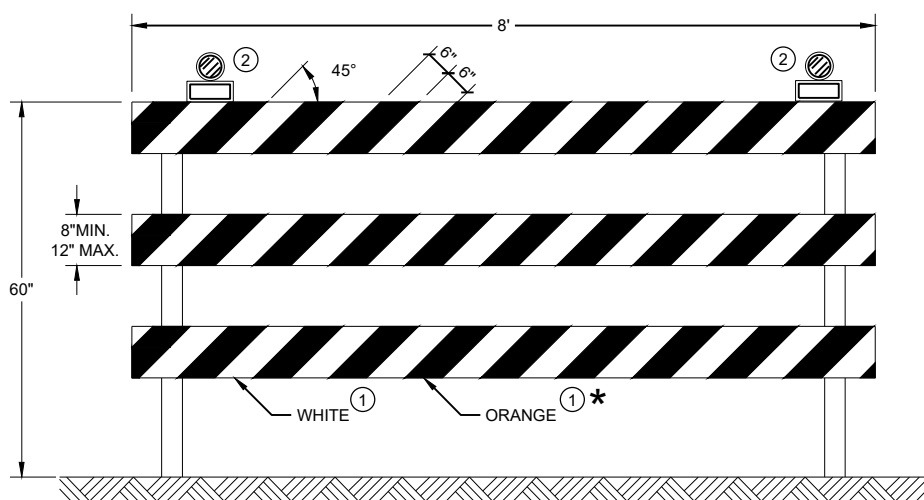
VERTICAL PANEL

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



TYPE II BARRICADE

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



TYPE III BARRICADE

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

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

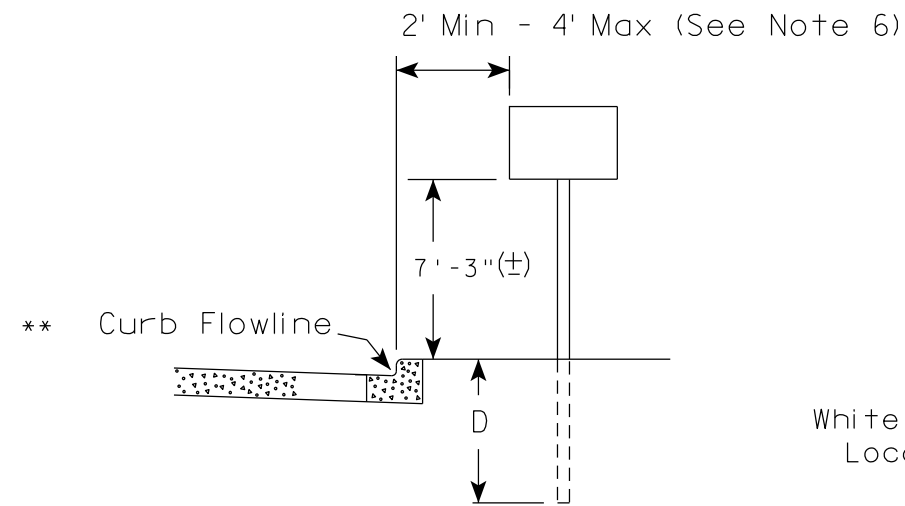
**CHANNELIZING DEVICES
DRUMS, CONES, BARRICADES
AND VERTICAL PANELS**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

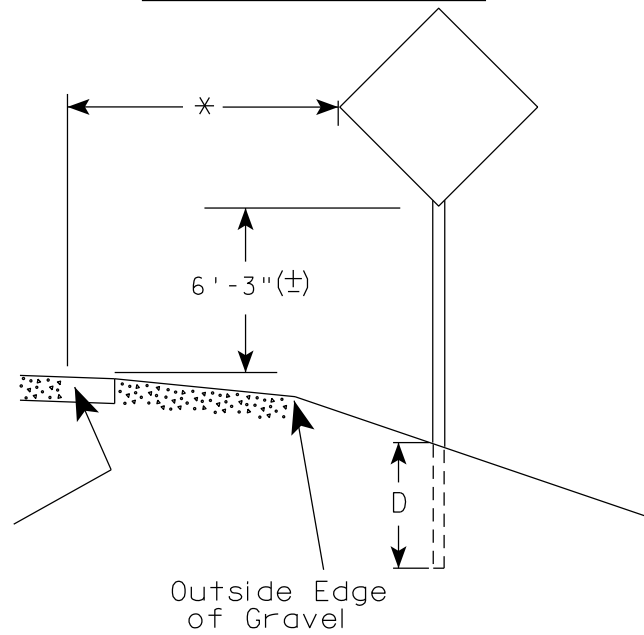
APPROVED
May 2021 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER

URBAN AREA

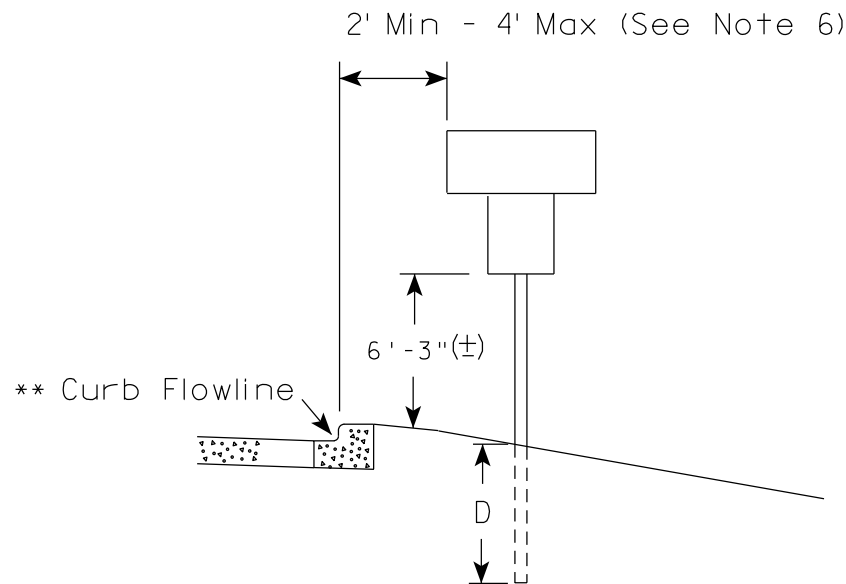
RURAL AREA (See Note 2)



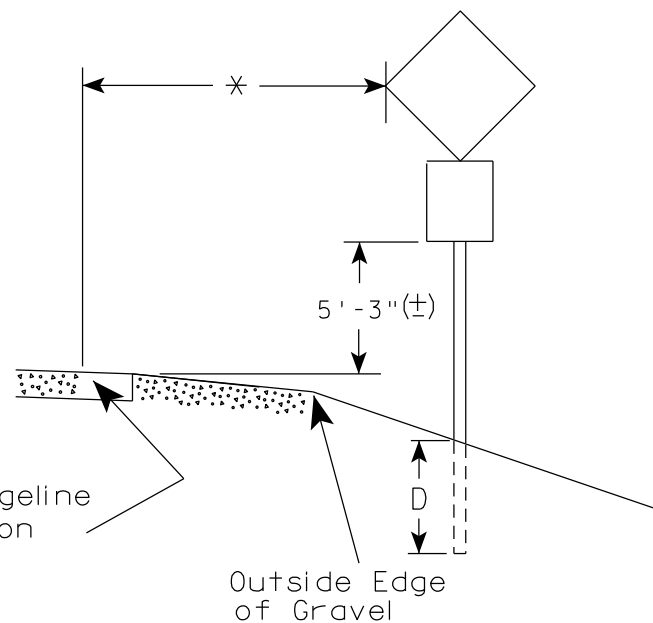
White Edgeline Location



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.

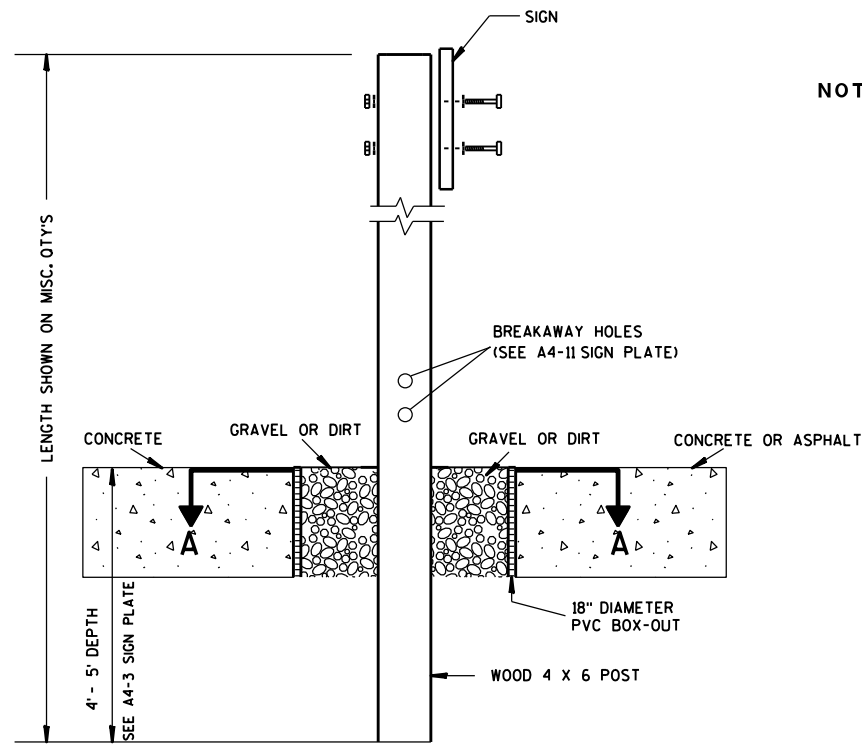
* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

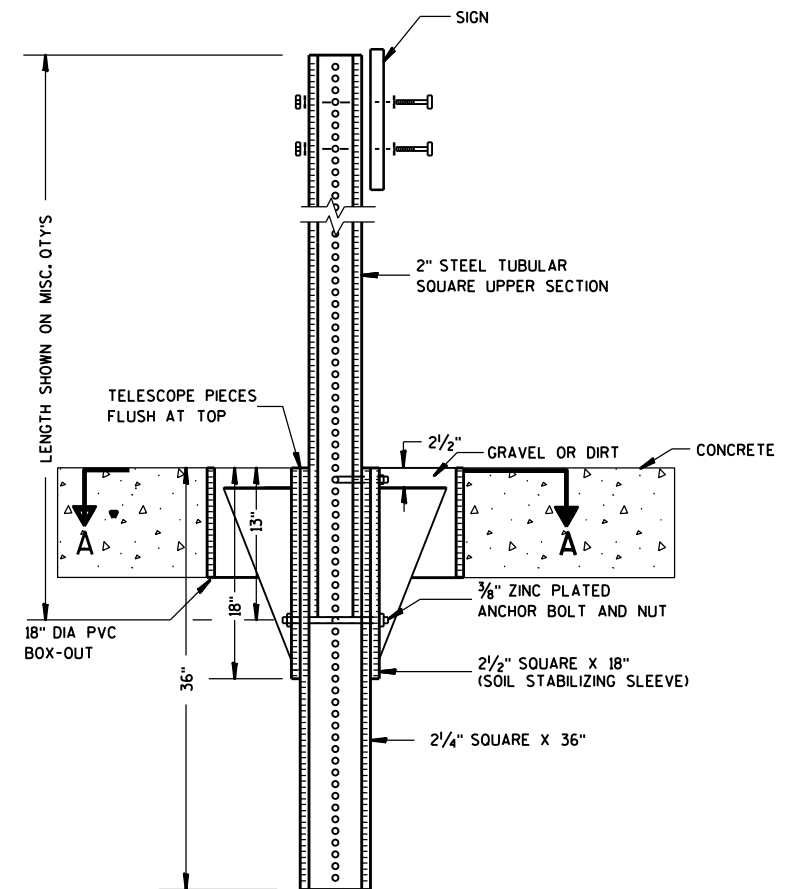
DATE 5/13/2020 PLATE NO. A4-3.22



ELEVATION VIEW

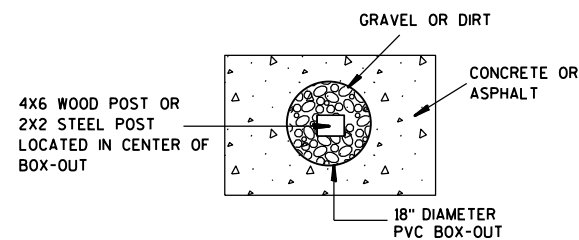
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

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



ELEVATION VIEW

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



PLAN VIEW

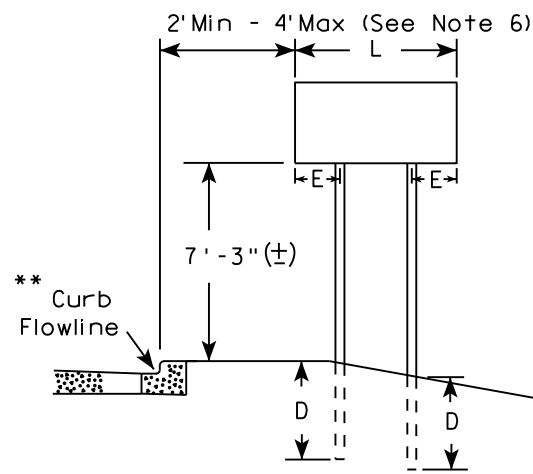
FOR NEW CONCRETE/ ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B	
<small>WISCONSIN DEPT OF TRANSPORTATION</small>	
APPROVED <i>Matthew R. Rauch</i> <small>for State Traffic Engineer</small>	
<small>DATE 1/27/14</small>	<small>PLATE NO. A4-3B.1</small>

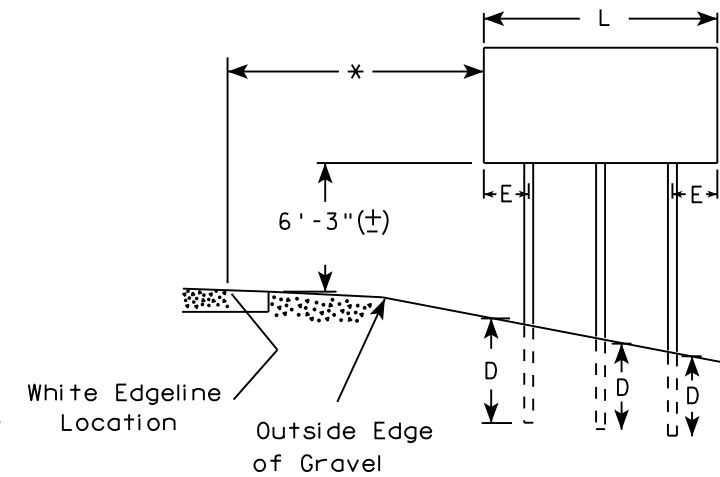
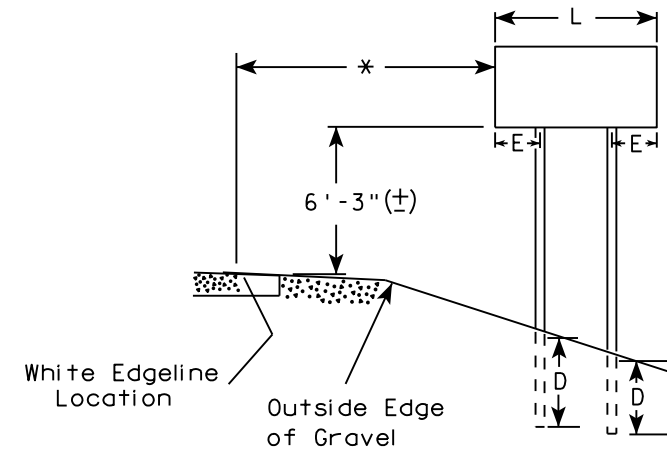
GENERAL NOTES

1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
2. See tables below for required number of posts.
3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
4. The (±) tolerance for mounting height is 3 inches.
5. 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" (±) 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" (±).

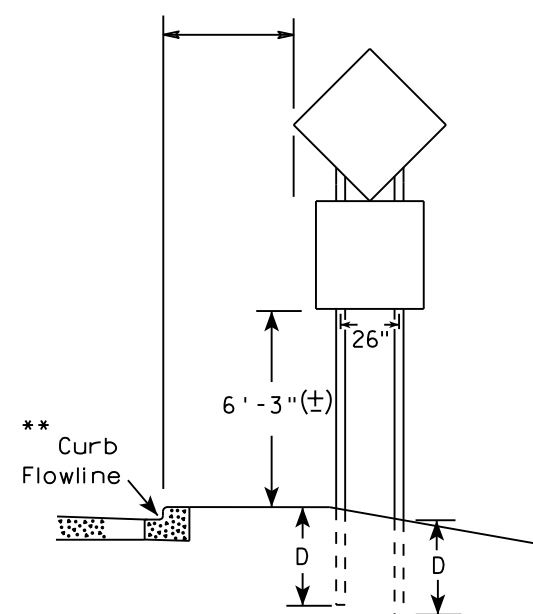
URBAN AREA



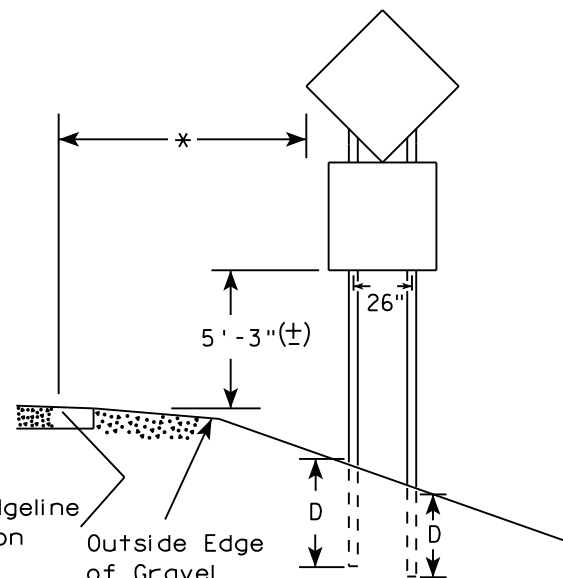
RURAL AREA (See Note 3)



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



48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

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

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

*** See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

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

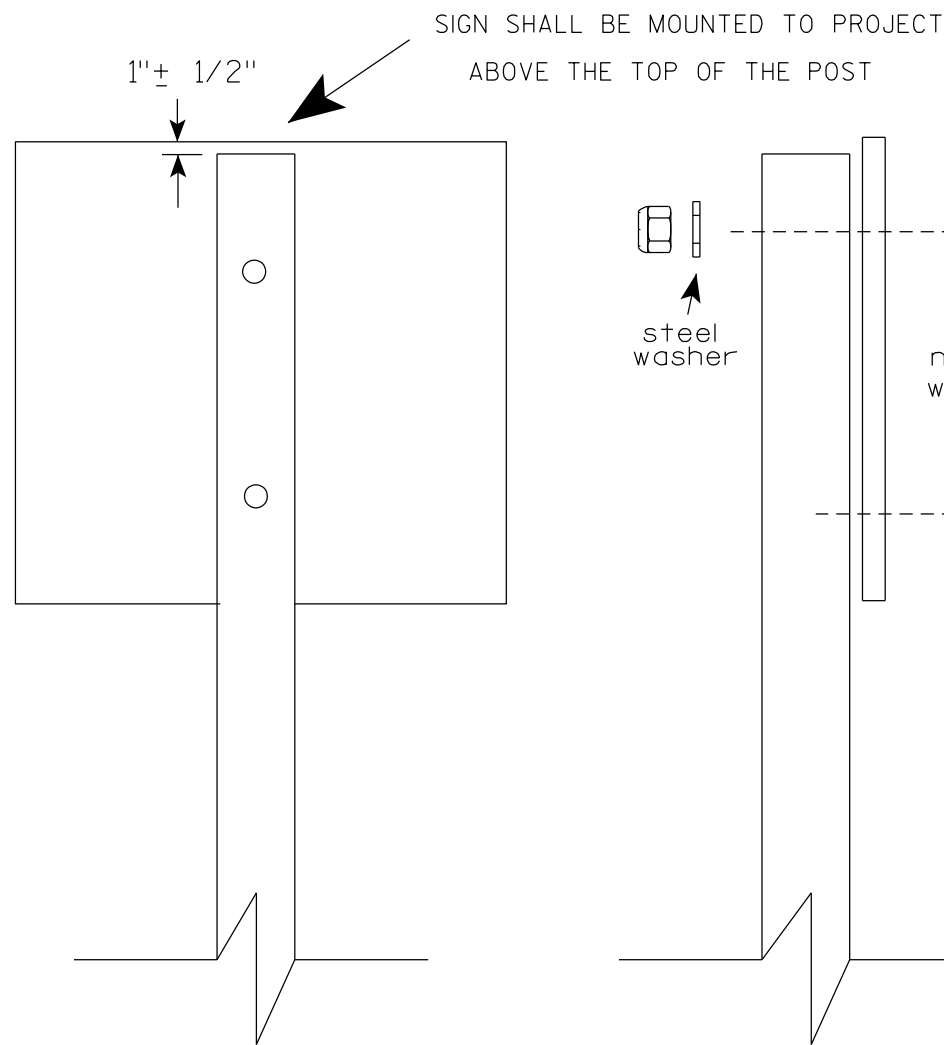
SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 108" to 144"	12"

POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION
 APPROVED *Matthew R. Rauch*
 For State Traffic Engineer
 DATE 8/21/17 PLATE NO. A4-4.15



SIGN SHALL BE MOUNTED TO PROJECT
ABOVE THE TOP OF THE POST

1"± 1/2"

steel washer

nylon washer

steel washer

*

*

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

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

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

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)

MACHINE BOLTS - 5/16" X 1-3/4" Length w/ lock nuts

WOOD POSTS (4" x 6")

LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)
3/8" X 4" (STRINGERS ON BACK OF SIGN)

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)
3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL

1-1/4" O.D. X 3/8" I.D. X .080 NYLON

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

ATTACHMENT OF SIGNS
TO POSTS

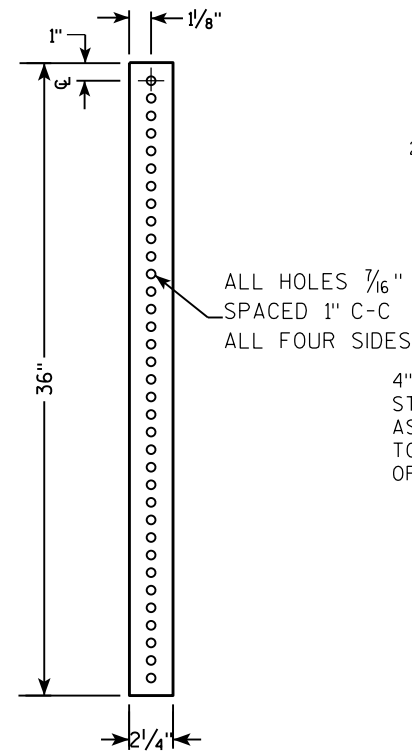
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R Rauch*
For State Traffic Engineer

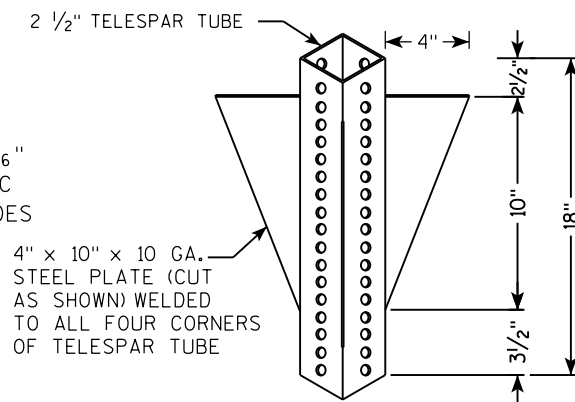
DATE 4/1/2020 PLATE NO. A4-8.9

**TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM**

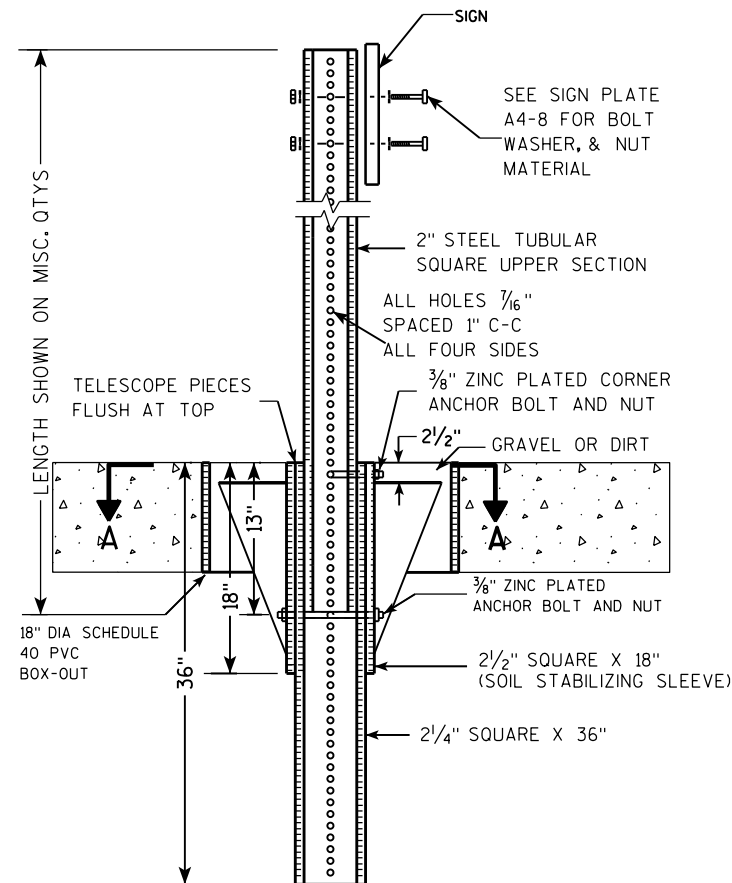
2 1/4" SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



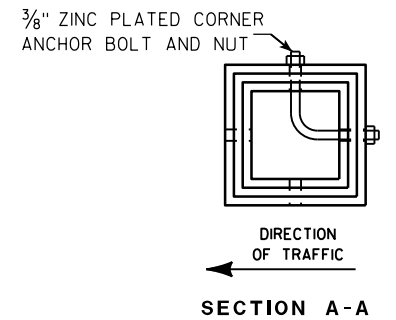
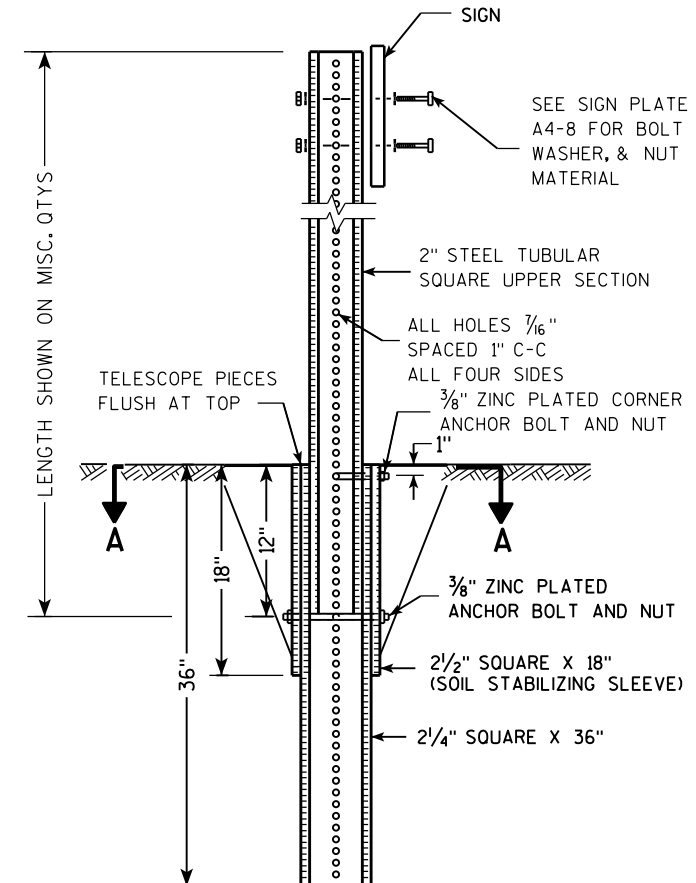
2 1/2" SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH



**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

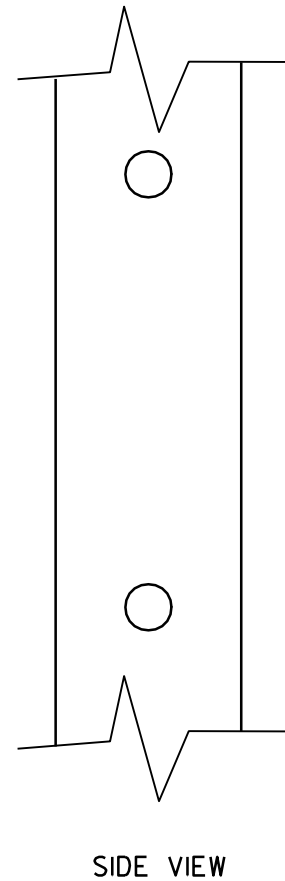
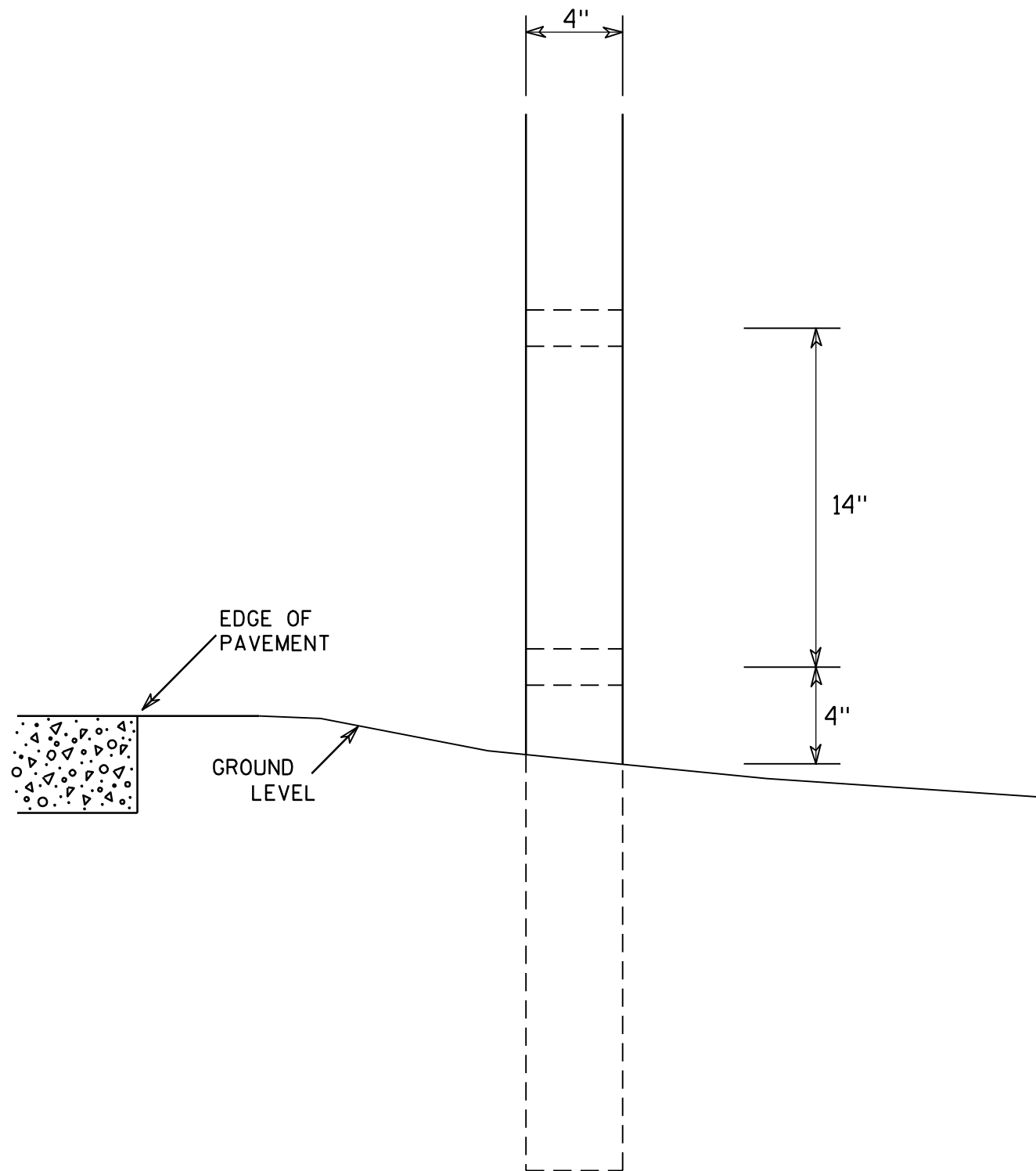
Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

**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



GENERAL NOTES

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

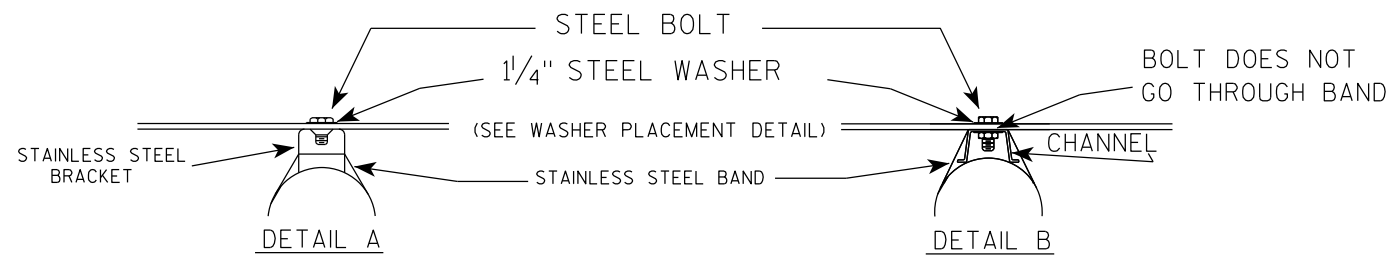
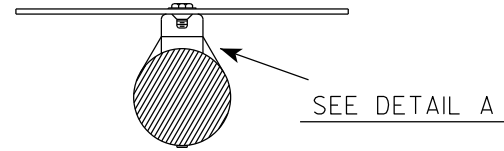
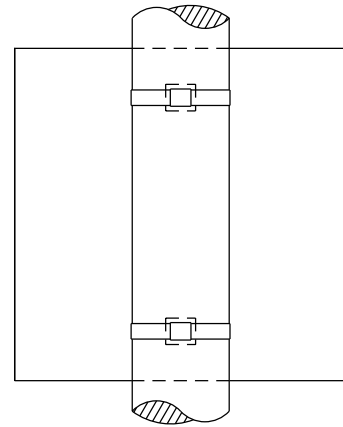
7

7

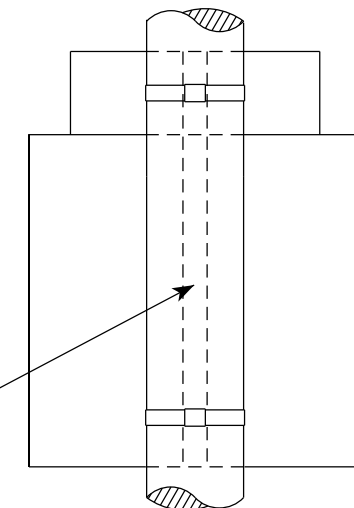
4 X 6 WOOD POST MODIFICATIONS	
<i>WISCONSIN DEPT OF TRANSPORTATION</i>	
APPROVED	<i>Chester J Spang</i> for State Traffic Engineer
DATE <u>3/27/97</u>	PLATE NO. <u>A4-11.2</u>

BANDING

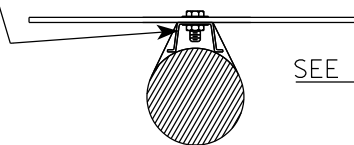
SINGLE SIGN



"J" ASSEMBLY

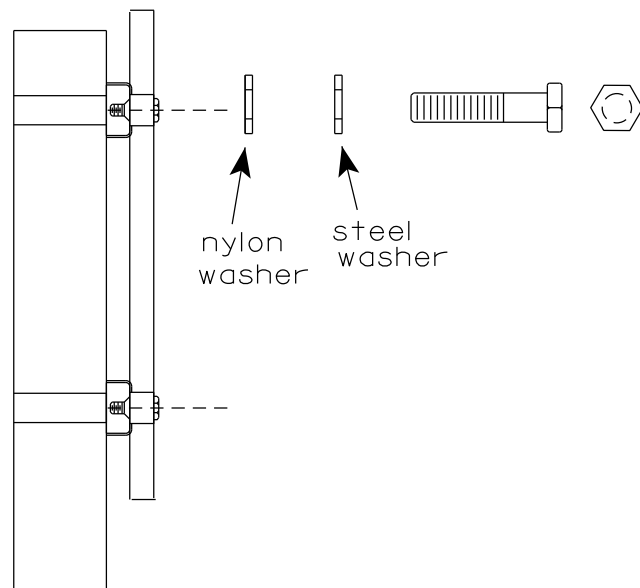


CHANNEL
SEE TYPICAL PANEL
INSTALLATION SHEET



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

WASHER PLACEMENT



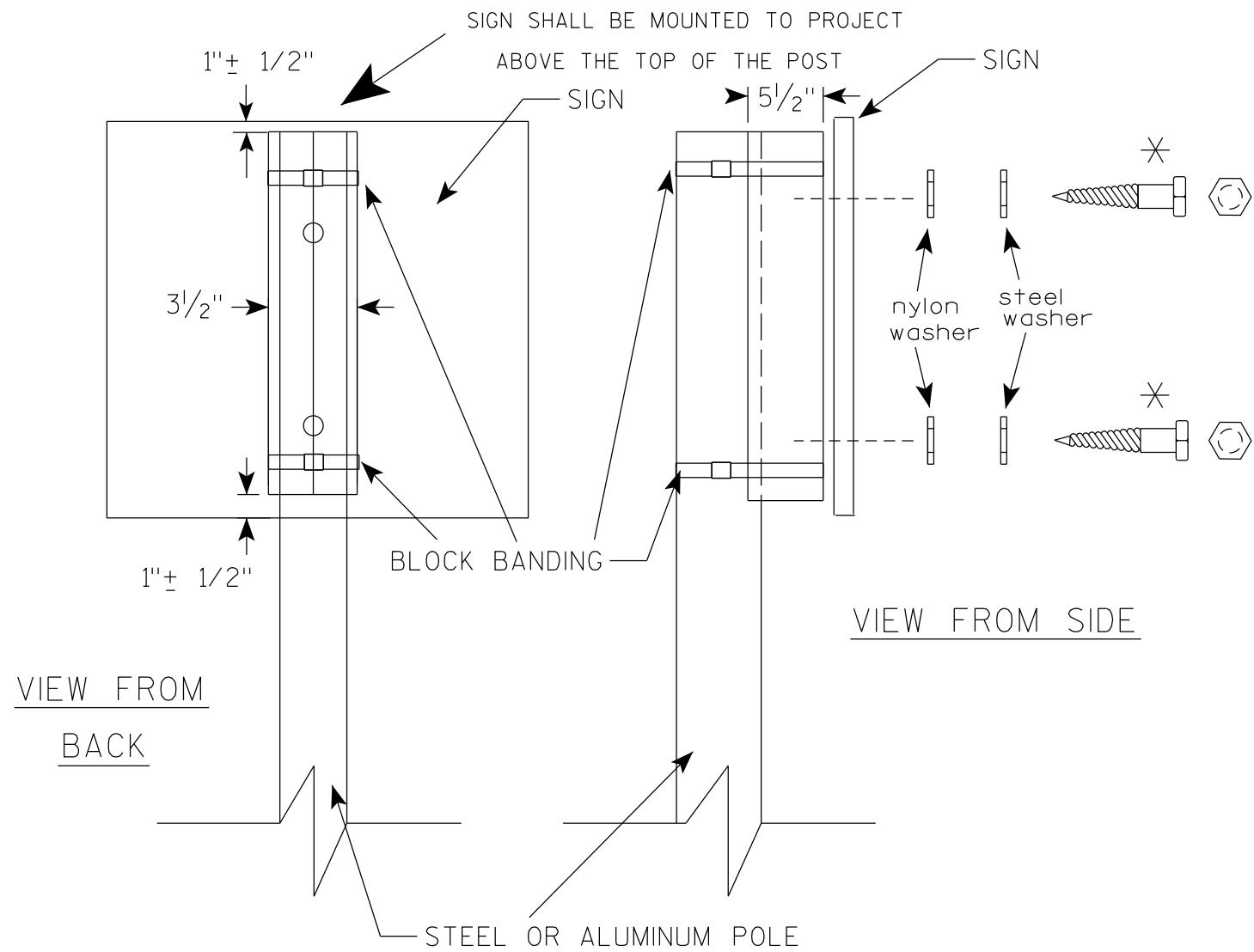
WASHERS (ALL POSTS) -
 1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
 1-1/4" O.D. X 3/8" I.D. X .080 NYLON
 FOR ALL TYPE H SIGNS

STANDARD SIGN
SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

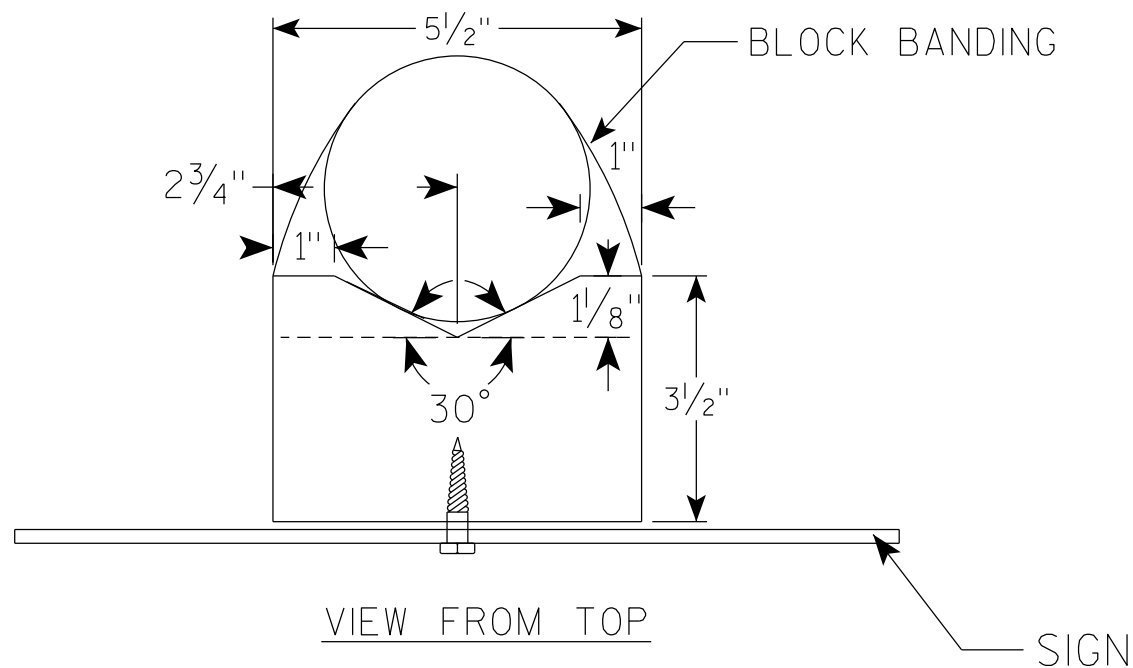
DATE 6/10/19 PLATE NO. A5-9.4



GENERAL NOTES

1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WisDOT STANDARD SPECIFICATIONS
2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, 3/4" WIDTH AND 0.025" THICKNESS
3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORMALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
 - a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
 - b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3
6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
7. STEEL WASHERS SHALL BE 1/4" O.D. X 3/8" I.D. X 1/16"
8. NYLON WASHERS SHALL BE 1/4" O.D. X 3/8" I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

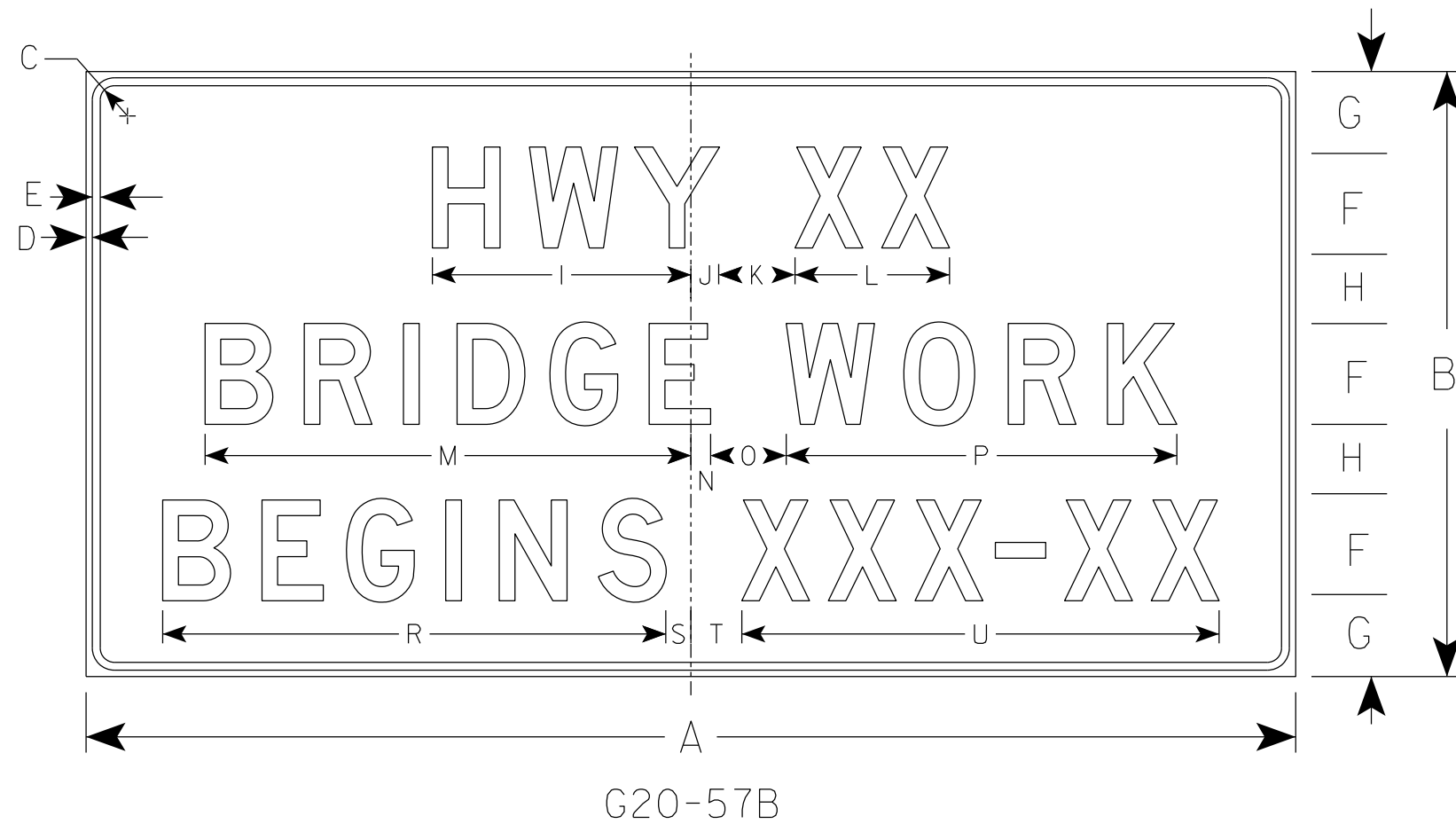
* LAG BOLTS SHALL BE 3/8" X 2 1/2"



BLOCK BANDING DETAIL (V-BLOCK OPTION)	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R Rauch</i> For State Traffic Engineer
DATE 6/10/19	PLATE NO. A5-10.2

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
Background - Orange
Message - Black
3. Message Series - D
4. Substitute appropriate numeral and adjust spacing to achieve proper balance.



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																											
2																											
3	72	36	1 1/8	1/2	5/8	6	5	4	15 5/8	1 5/8	5	9 1/4	29 1/8	7/8	5	23 1/4		29 7/8	1 3/4	3 1/4	28 1/2						18.0
4	96	48	2 1/4	3/4	1	8	6 1/2	5 1/2	20 5/8	2 1/4	6	12 1/4	38 1/2	1 1/2	6	31		39 1/4	2	4	37 7/8						32.0
5																											

STANDARD SIGN
G20-57B

WISCONSIN DEPT OF TRANSPORTATION

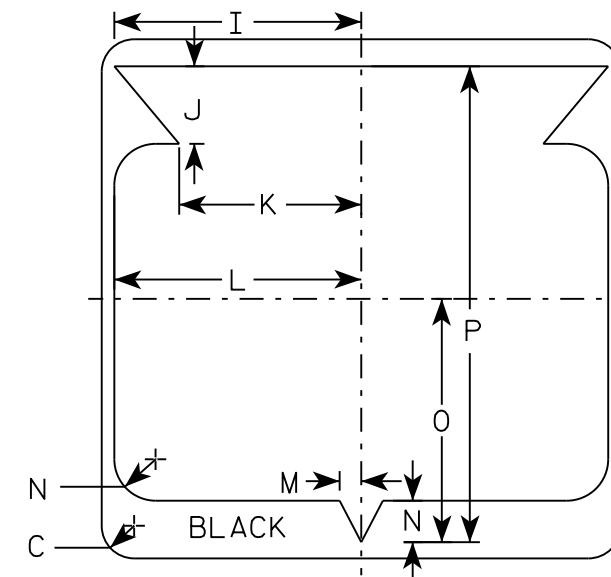
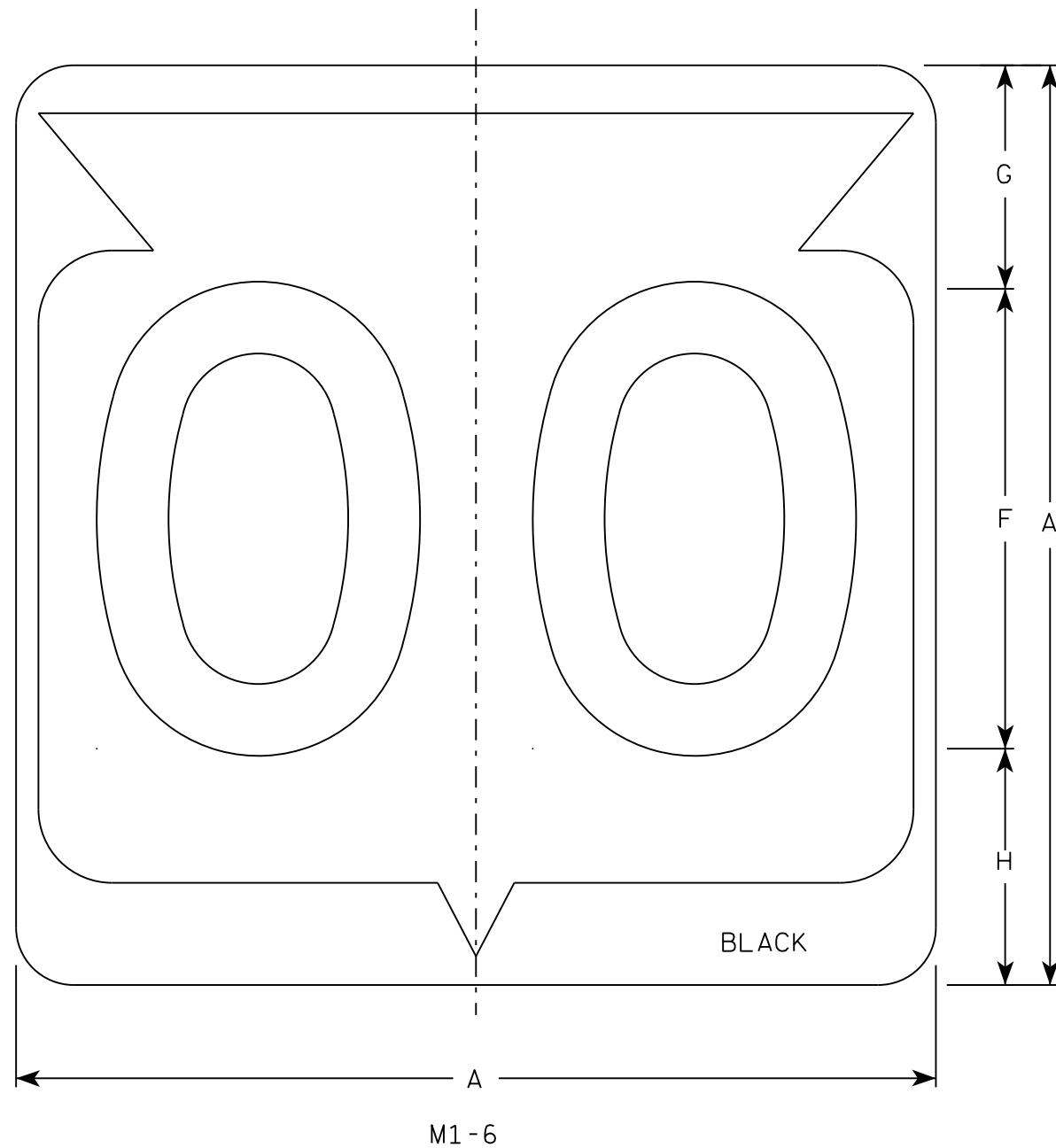
APPROVED *Matthew R. Raub*
for State Traffic Engineer

DATE 1/22/19 PLATE NO. G20-57B.1

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

NOTES

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



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 7/8	11 1/2	1	1 7/8	11 1/4	21 7/8											4.0
3	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0
4	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0
5	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0

STATE ROUTE MARKER
M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 3/16/18 PLATE NO. M1-6.10

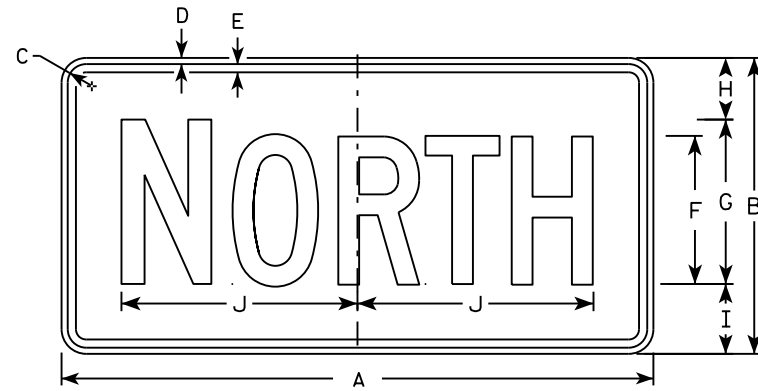
PROJECT NO: _____ HWY: _____ COUNTY: _____ SHEET NO: **E**

7

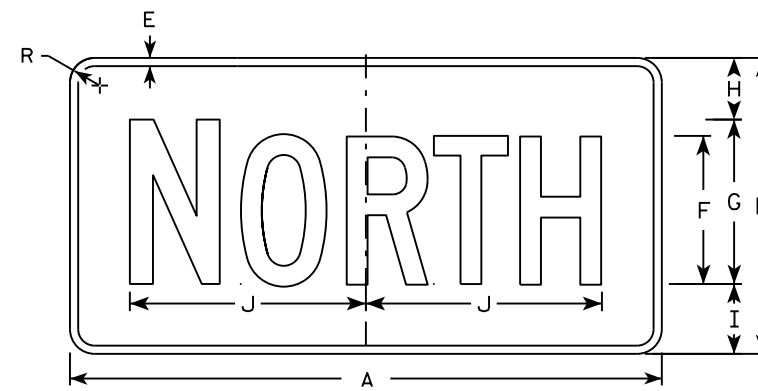
7

NOTES

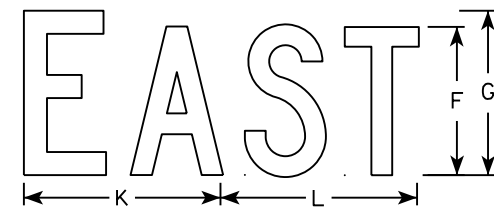
- All Signs Type II - Type H
- Color:
 - Background - See note 5
 - Message - See note 5
- Message Series - C
- Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- M3-1 thru M3-4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



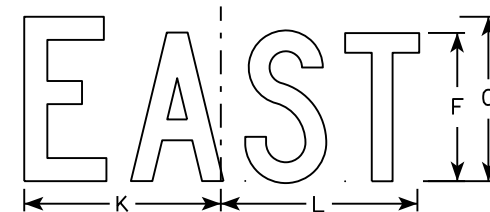
M3-1
MM3-1
MP3-1



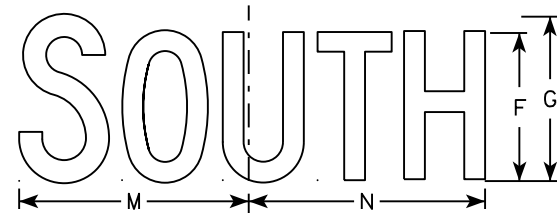
MB3-1
MK3-1
MN3-1



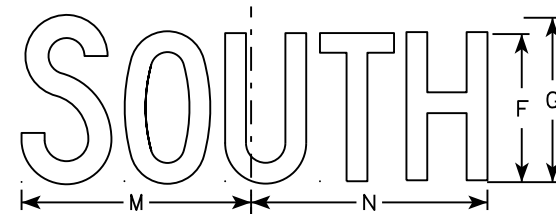
M3-2
MM3-2
MP3-2



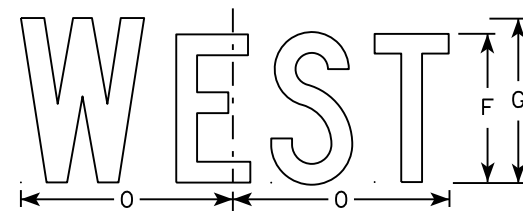
MB3-2
MK3-2
MN3-2



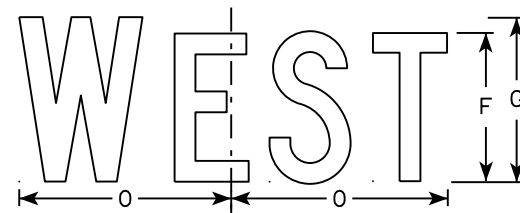
M3-3
MM3-3
MP3-3



MB3-3
MK3-3
MN3-3



M3-4
MM3-4
MP3-4



MB3-4
MK3-4
MN3-4

7

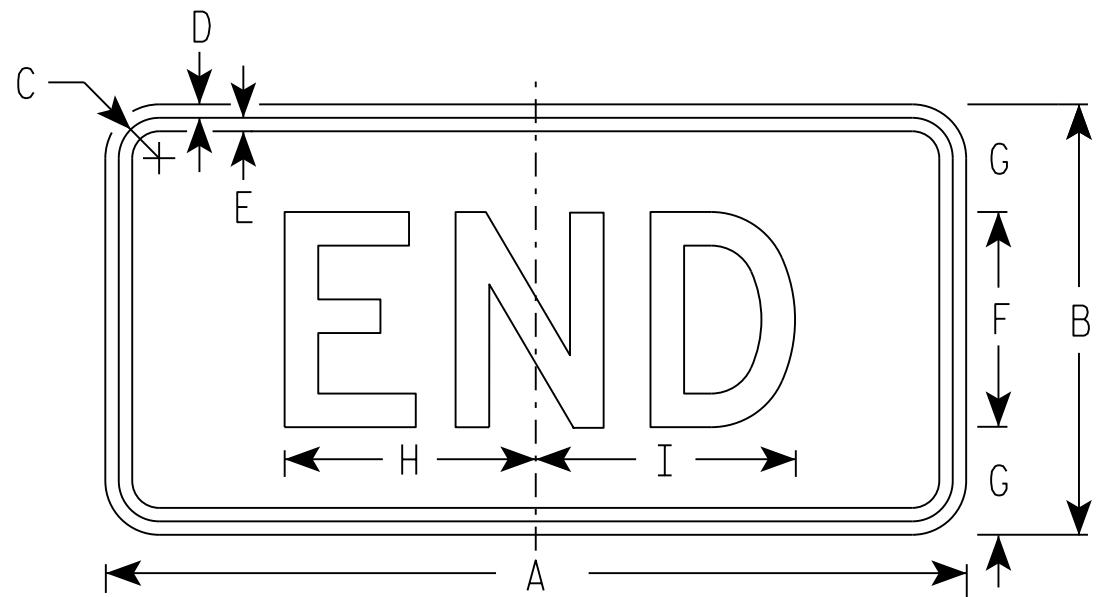
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 7/8	8 3/8	10 1/4	9 3/4	8 3/4			1 1/2									2.00
3	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
4	36	18	1 1/8	3/8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

STANDARD SIGNS
M3-1 thru M3-4
SERIES

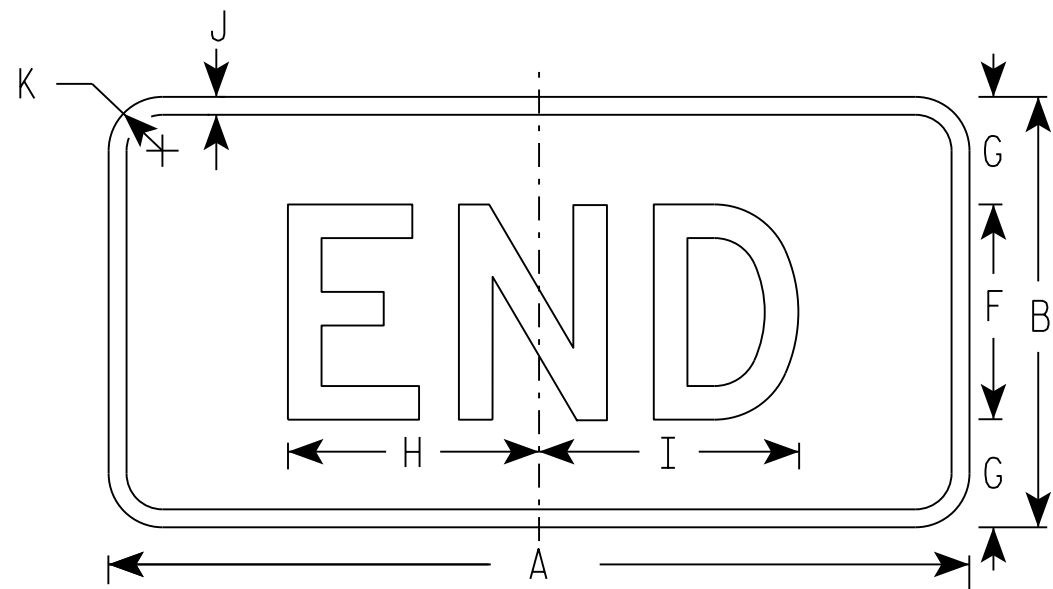
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

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



M4-6
MM4-6
MP4-6



MB4-6
MK4-6
MN4-6
MR4-6

NOTES

1. Sign is Type II - Type H
2. Color:
Background - See note 5
Message - See note 5
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M4-6 Background - White
Message - Black
MB4-6 Background - Blue
Message - White
MK4-6 Background - Green
Message - White
MM4-6 Background - White
Message - Green
MN4-6 Background - Brown
Message - White
MP4-6 Background - White
Message - Blue
MR4-6 Background - Brown
Message - Yellow

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																											
2	24	12	1 1/8	3/8	3/8	6	3	7	7 1/4	1/2	1 1/2																2.00
3	36	18	1 1/8	3/8	1/2	9	4 1/2	12	11 7/8	1/2	1 1/2																4.5
4	36	18	1 1/8	3/8	1/2	9	4 1/2	12	11 7/8	1/2	1 1/2																4.5
5	36	18	1 1/8	3/8	1/2	9	4 1/2	12	11 7/8	1/2	1 1/2																4.5

STANDARD SIGN
M4-6

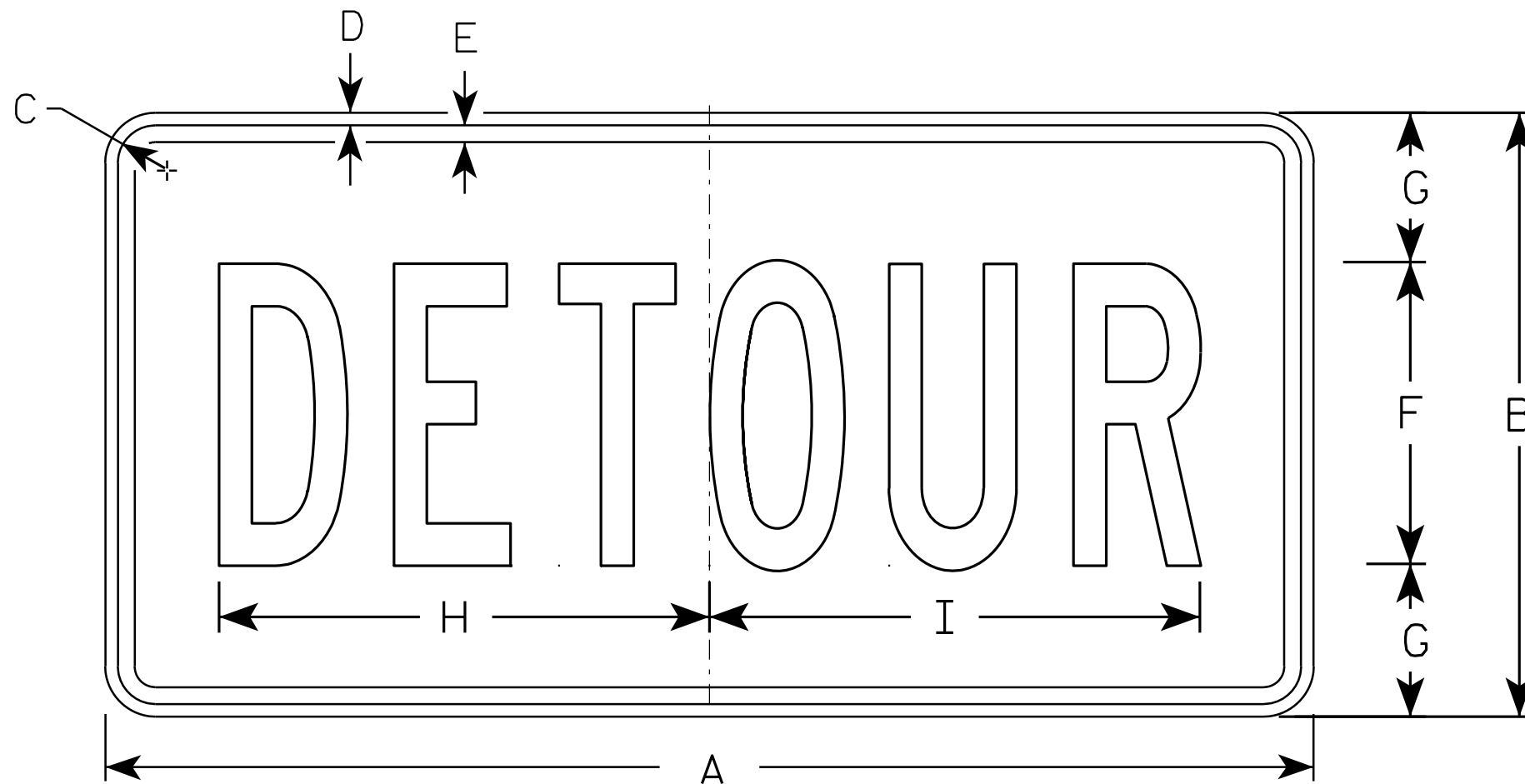
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 10/15/15 PLATE NO. M4-7.9

NOTES

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



M4-8

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																											
2	24	12	1 1/8	3/8	3/8	6	3	10	10 1/4																		2.0
3	36	18	1 1/8	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
4																											
5																											

STANDARD SIGN
M4-8

WISCONSIN DEPT OF TRANSPORTATION

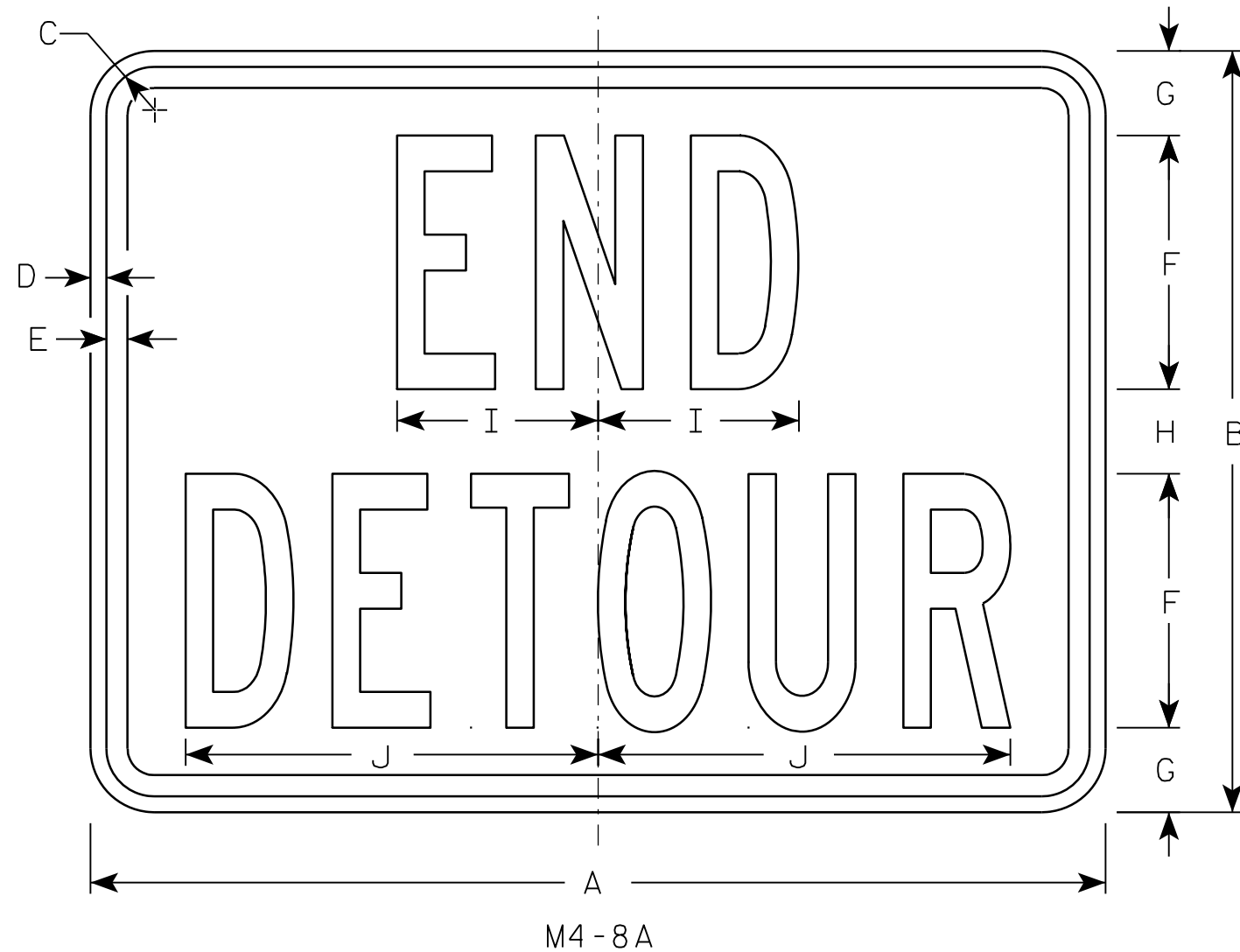
APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 11/10/10 PLATE NO. M4-8.2

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

NOTES

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



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																											
2	24	18	1 1/8	3/8	1/2	6	2	2	4 3/4	9 3/4																	3.0
3	30	24	1 1/8	3/8	1/2	8	2 1/2	3	6 3/4	13																	5.0
4																											
5																											

STANDARD SIGN
M4-8A

WISCONSIN DEPT OF TRANSPORTATION

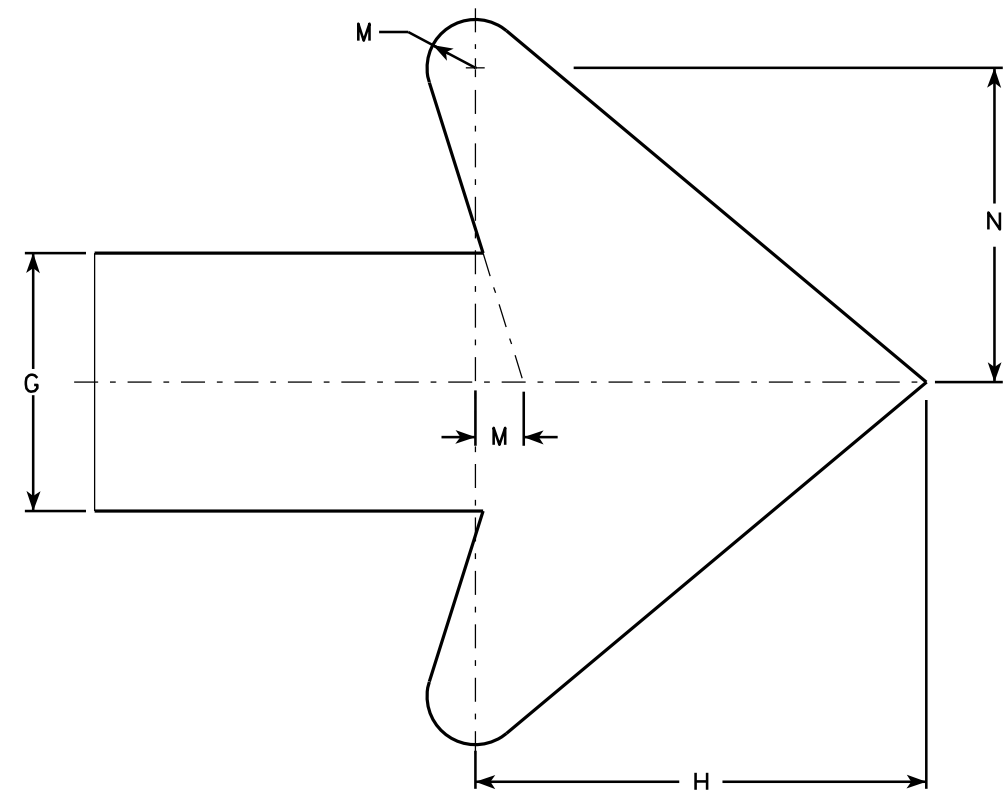
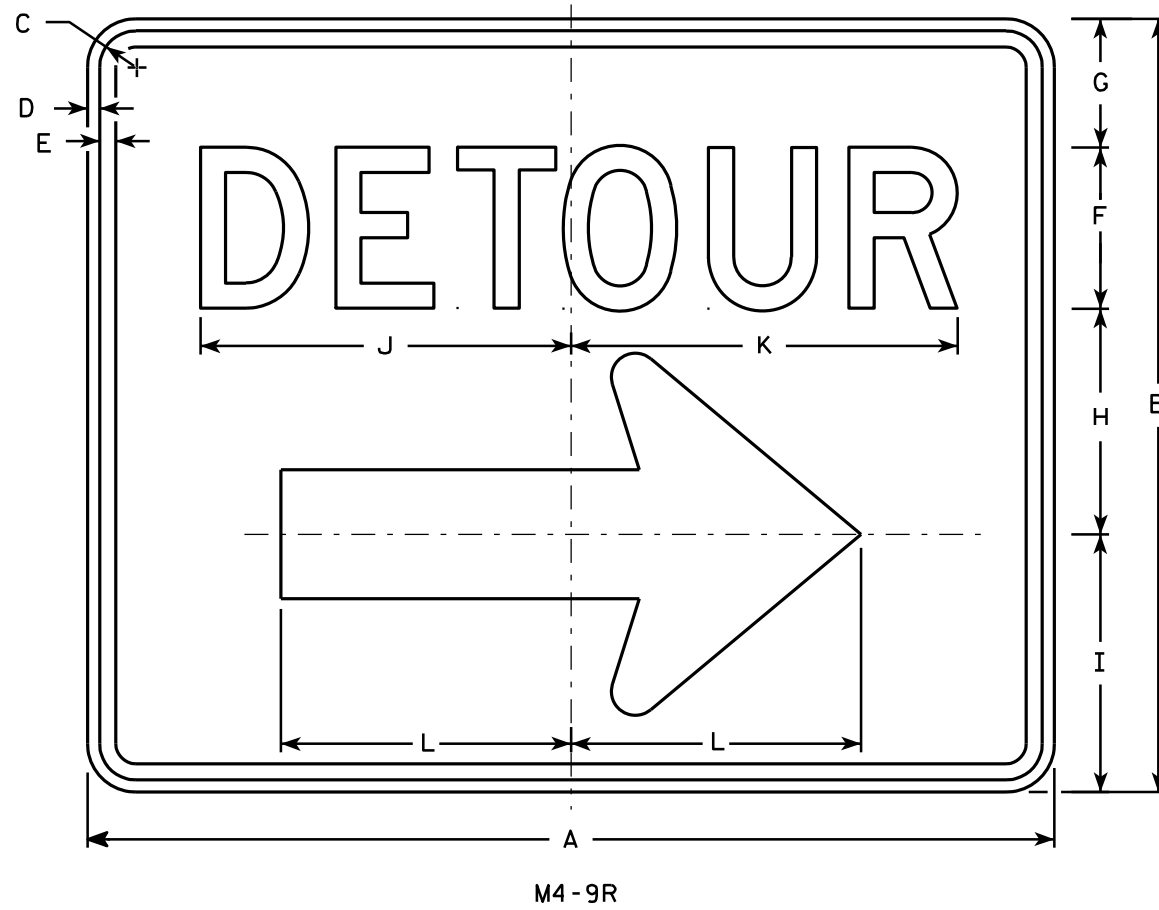
APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 3/9/11 PLATE NO. M4-8A.2

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

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Orange
Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M4-9L is the same as M4-9R except the arrow is reversed.



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	30	24	1 1/8	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 7/8													5.00
3	30	24	1 1/8	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 7/8													5.00
4	48	36	1 3/8	1/2	5/8	8	6	10 1/2	11 5/8	20 5/8	20 1/2	13 1/4	1 1/8	6 7/8													12.0
5	48	36	1 3/8	1/2	5/8	8	6	10 1/2	11 5/8	20 5/8	20 1/2	13 1/4	1 1/8	6 7/8													12.0

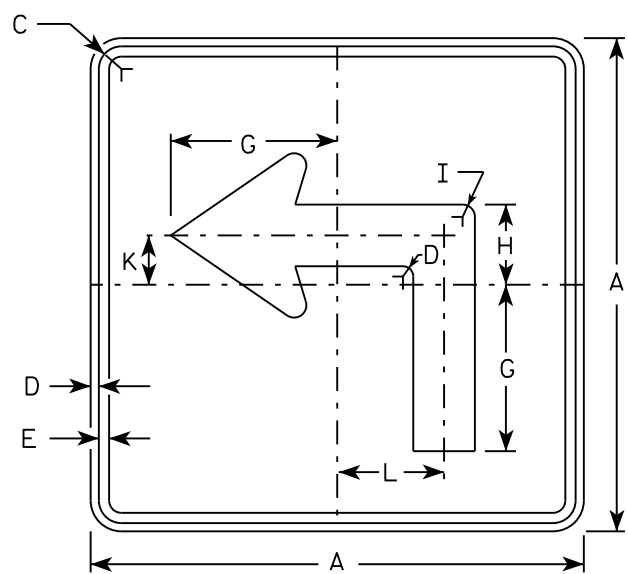
STANDARD SIGN
M4-9 R & L

WISCONSIN DEPT OF TRANSPORTATION

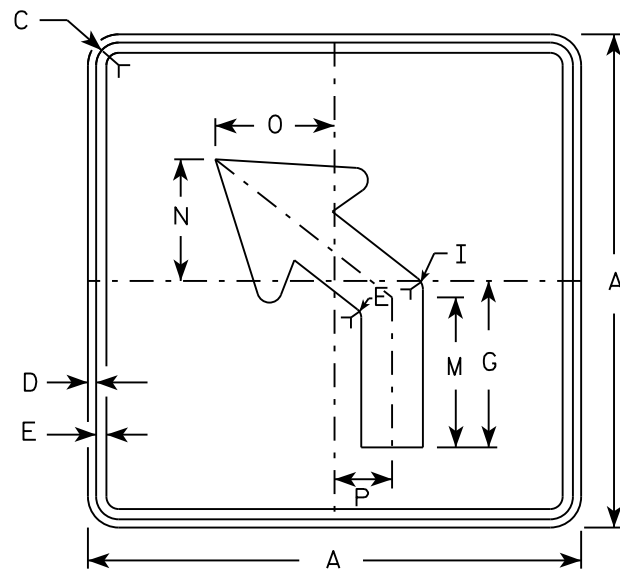
APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 3/9/11 PLATE NO. M4-9R.4

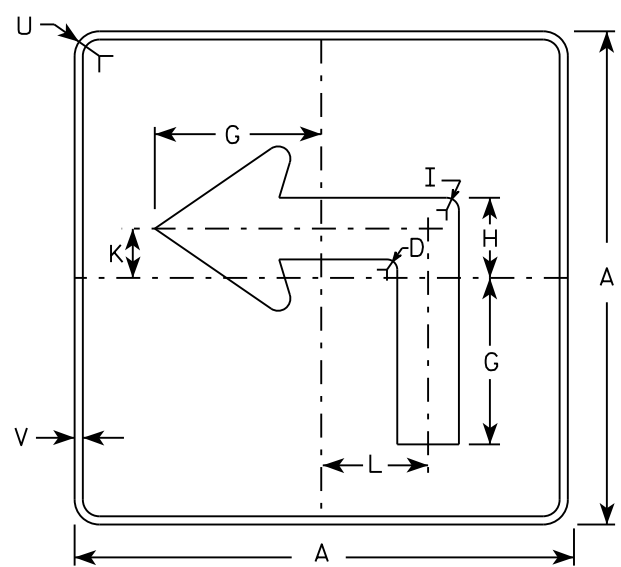
PROJECT NO: _____ HWY: _____ COUNTY: _____ SHEET NO: **E**



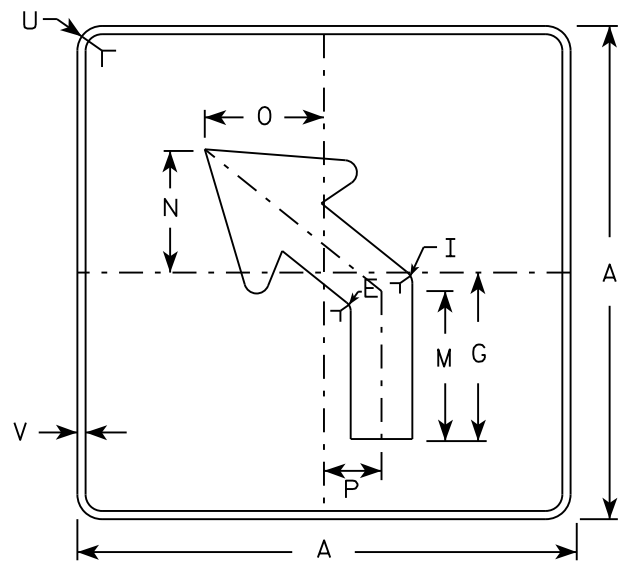
M5-1L
MM5-1L
M05-1L
MP5-1L



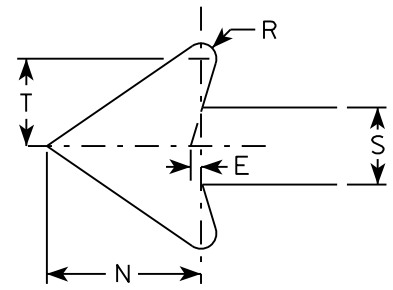
M5-2L
MM5-2L
M05-2L
MP5-2L



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



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



NOTES

- Signs are Type II - Type H reflective except as shown
- Color:
 - Background - See note 4
 - Message - See note 4
- Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- M5-1 and M5-2 Background - White
Message - Black
 - MB5-1 and MB5-2 Background - Blue
Message - White
 - MK5-1 and MK5-2 Background - Green
Message - White
 - MM5-1 and MM5-2 Background - White
Message - Green
 - MN5-1 and MN5-2 Background - Brown
Message - White
 - M05-1 and M05-2 Background - Orange - Type F Reflective
Message - Black
 - MP5-1 and MP5-2 Background - White - Type H Reflective
Message - Blue
 - MR5-1 and MR5-2 Background - Brown
Message - Yellow
- M5-1R same as M5-1L except arrow points right.
- M5-2R same as M5-2L except arrow tilts right.

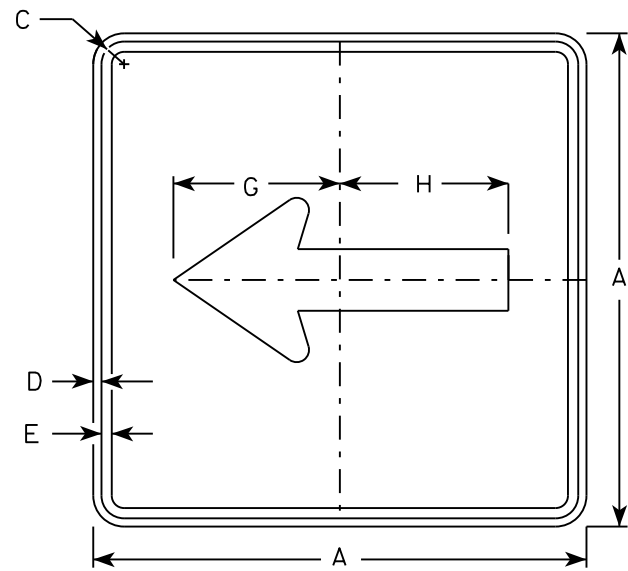
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3	1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25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

STANDARD SIGN
M5-1 & M5-2

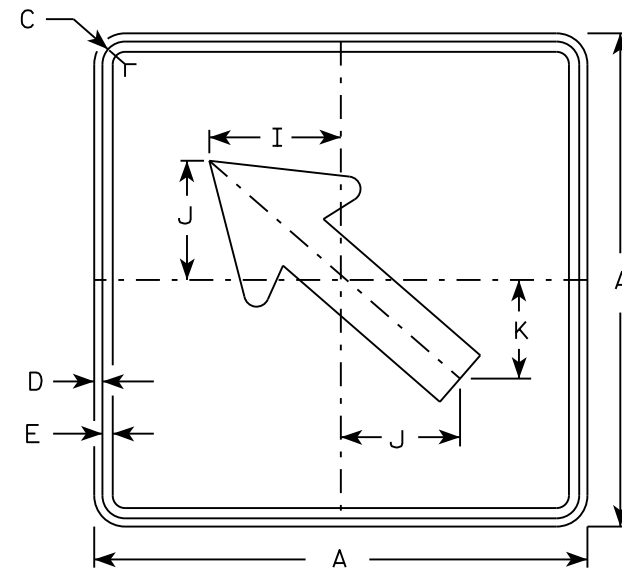
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

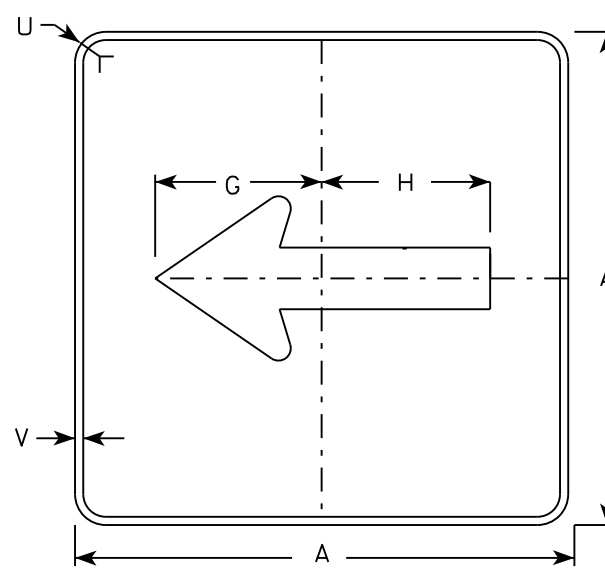
DATE 10/15/15 PLATE NO. M5-1.13



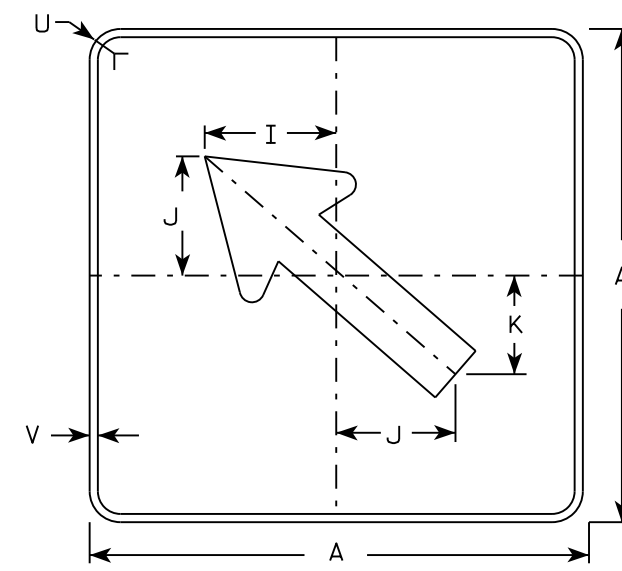
M6-1
MM6-1
M06-1
MP6-1



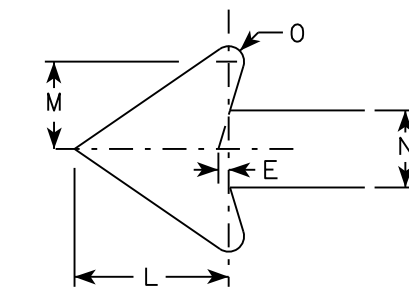
M6-2
MM6-2
M06-2
MP6-2



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



MB6-2
MK6-2
MN6-2
MR6-2



NOTES

- Signs are Type II - Type H except as Shown
- Color:
Background - See note 4
Message - See note 4
- Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- M6-1 and M6-2 Background - White
Message - Black
MB6-1 and MB6-2 Background - Blue
Message - White
MK6-1 and MK6-2 Background - Green
Message - White
MM6-1 and MM6-2 Background - White
Message - Green
MN6-1 and MN6-2 Background - Brown
Message - White
M06-1 and M06-2 Background - Orange - Type F Reflective
Message - Black
MP6-1 and MP6-2 Background - White
Message - Blue
MR6-1 and MR6-2 Background - Brown
Message - Yellow

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																											
2	21		1 1/8	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2							1 1/2	1/2				3.06
3	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4							1 7/8	1/2				6.25
4	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4							1 7/8	1/2				6.25
5	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4							1 7/8	1/2				6.25

STANDARD SIGN
M6-1 & M6-2
SERIES

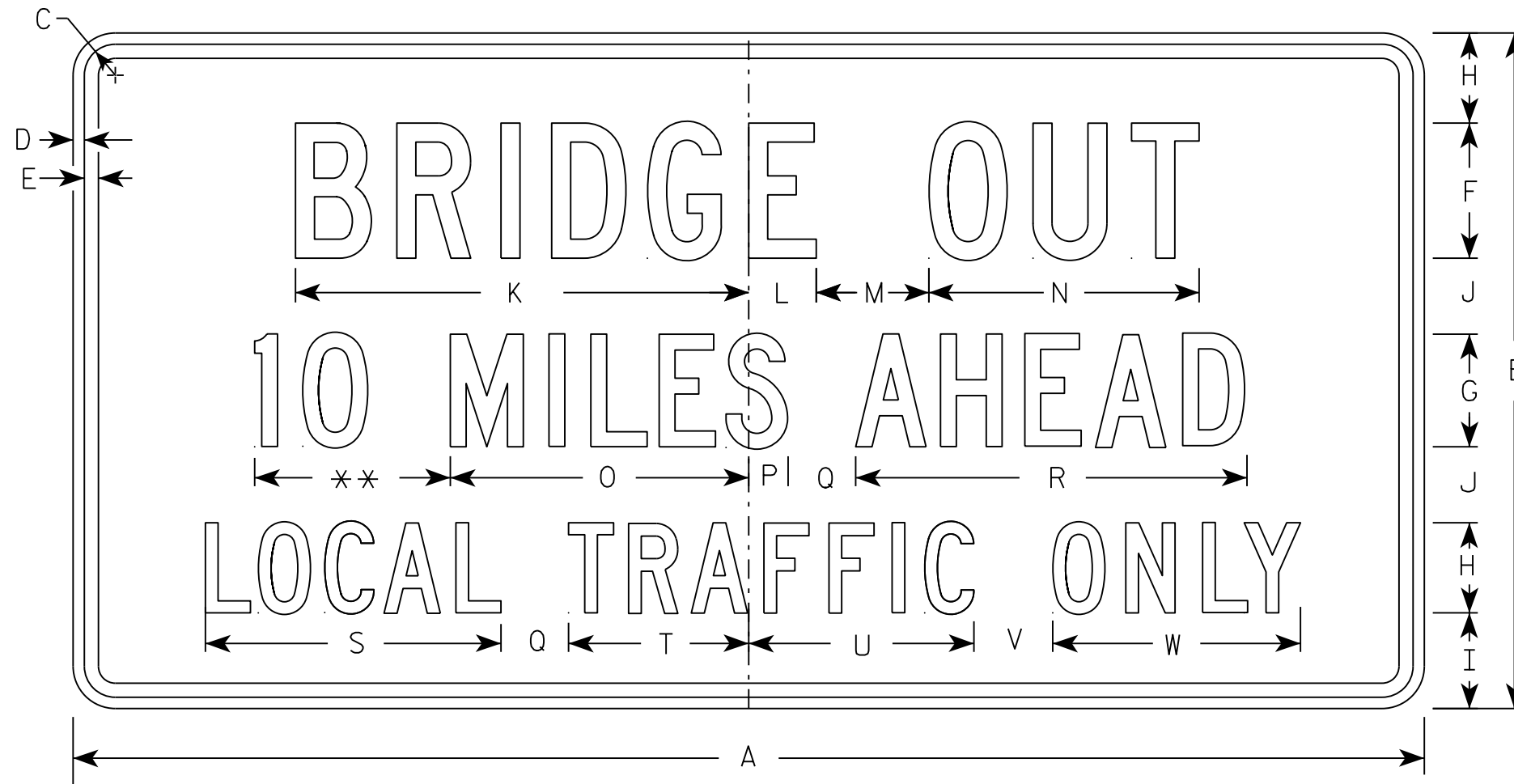
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

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

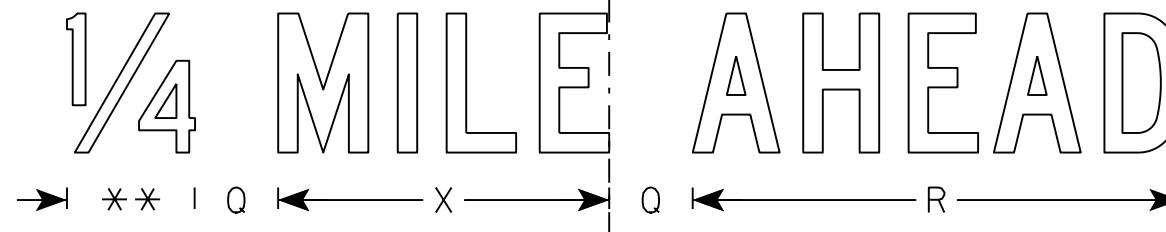
NOTES

1. Sign is Type II - Type H Reflective
2. Color:
Background - White
Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals to nearest quarter mile and optically adjust spacing to achieve proper balance.



** See Note 5

R11-3B



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	18	1 3/8	1/2	5/8	4	3	2 1/2	2	2	13 1/4	2 1/4	3	8	8	1 1/2	2	10 3/4	8 3/8	4 3/4	6 1/2	2	6 3/4	7 1/8		4.5	
2S	60	30	1 3/8	1/2	5/8	6	5	4	4 1/4	3 3/8	20 1/8	3	5	12	13 1/4	1 3/4	3	17 3/8	13 1/8	8	10	3 1/2	11	11 7/8		12.5	
2M	60	30	1 3/8	1/2	5/8	6	5	4	4 1/4	3 3/8	20 1/8	3	5	12	13 1/4	1 3/4	3	17 3/8	13 1/8	8	10	3 1/2	11	11 7/8		12.5	
3																											
4																											
5																											

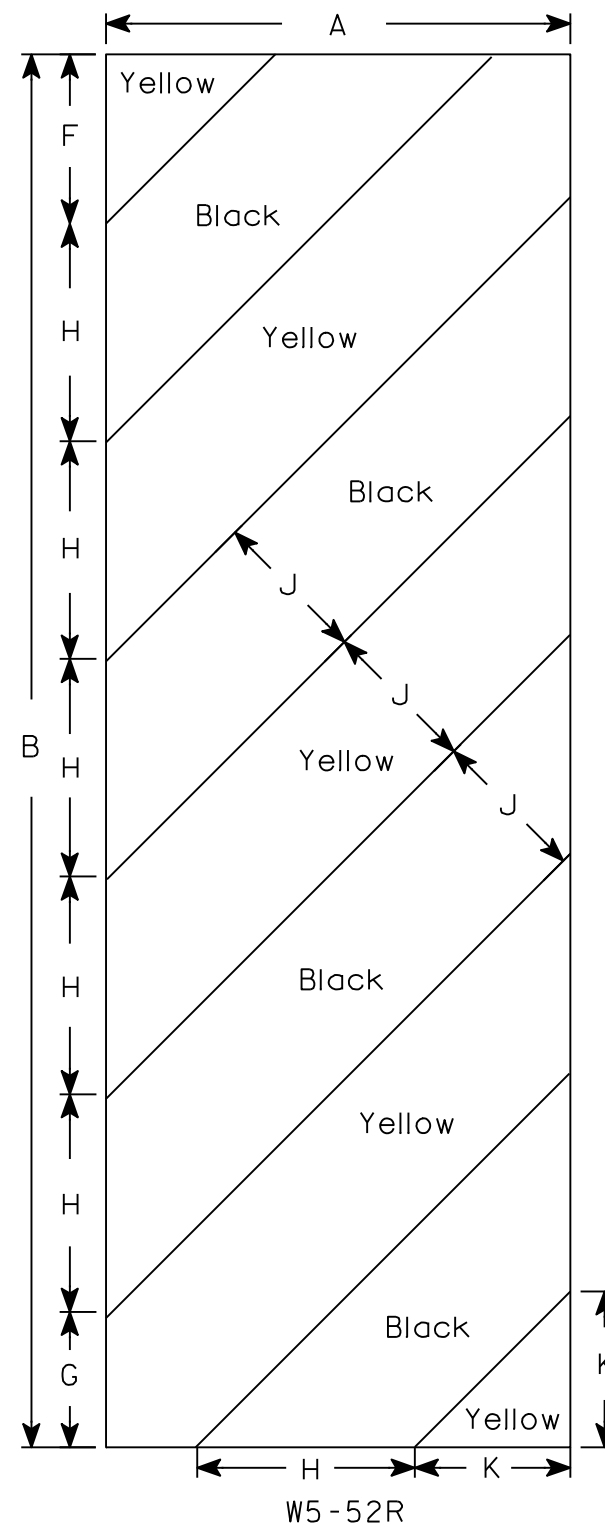
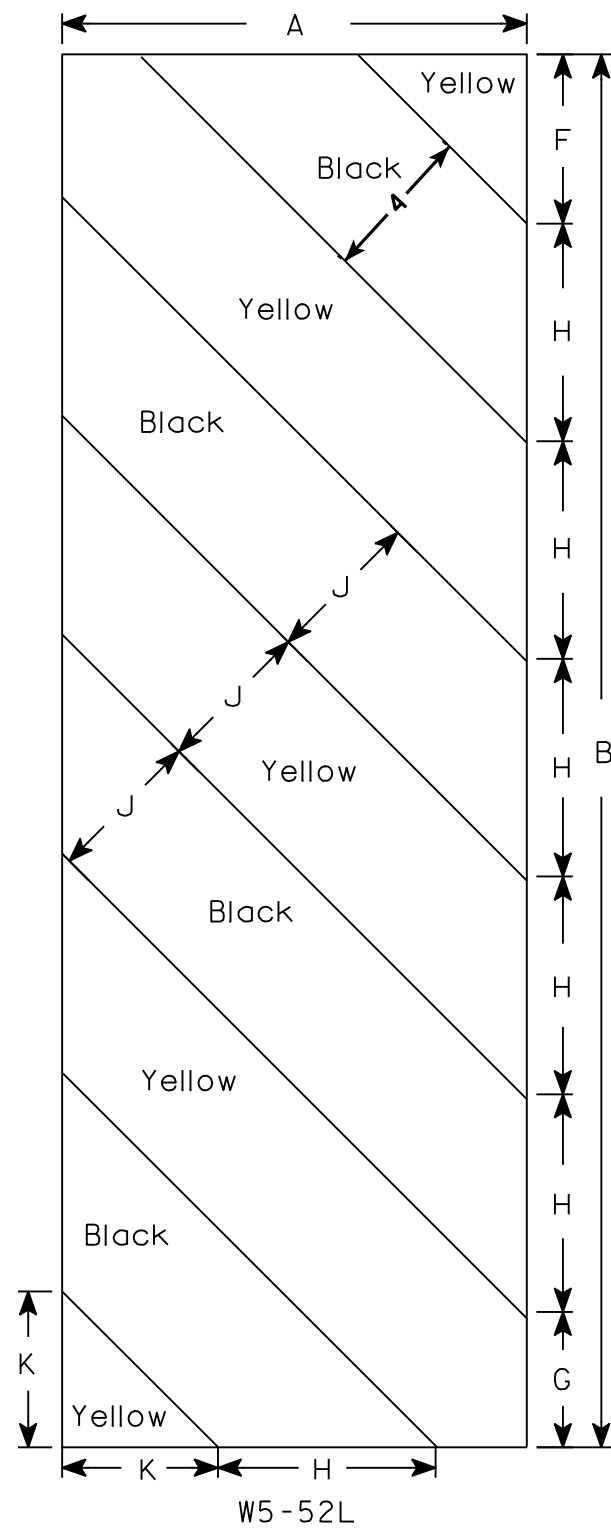
STANDARD SIGN
R11-3B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 3/21/17 PLATE NO. R11-3B.3

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



NOTES

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

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																											
2S	12	36				4 3/8	3 1/2	5 5/8	45°	4	4																3.0
2M	12	36				4 3/8	3 1/2	5 5/8	45°	4	4																3.0
3	18	54				6	5 1/2	8 1/2	45°	6	6 9/16																6.75
4																											
5																											

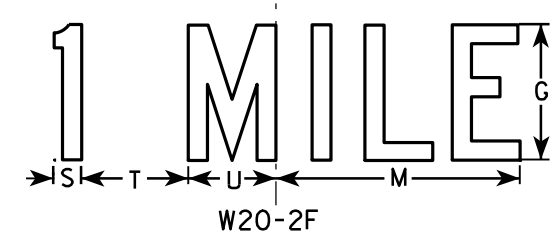
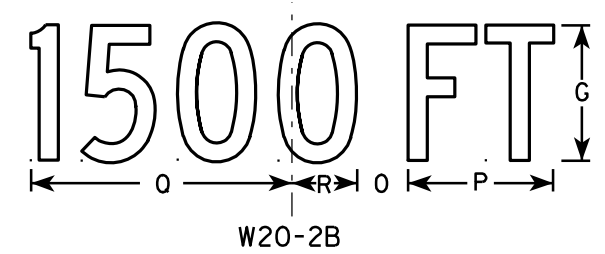
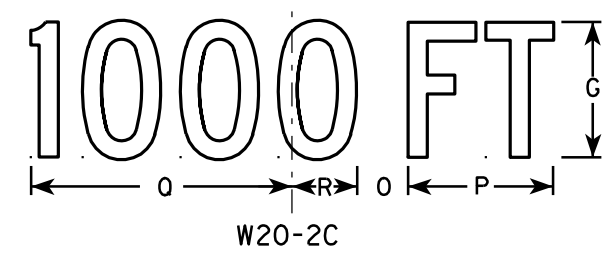
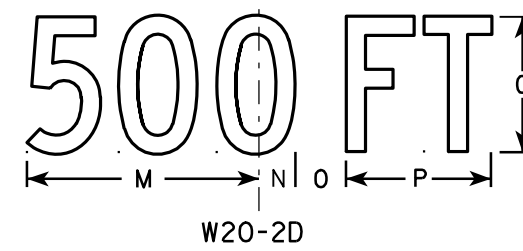
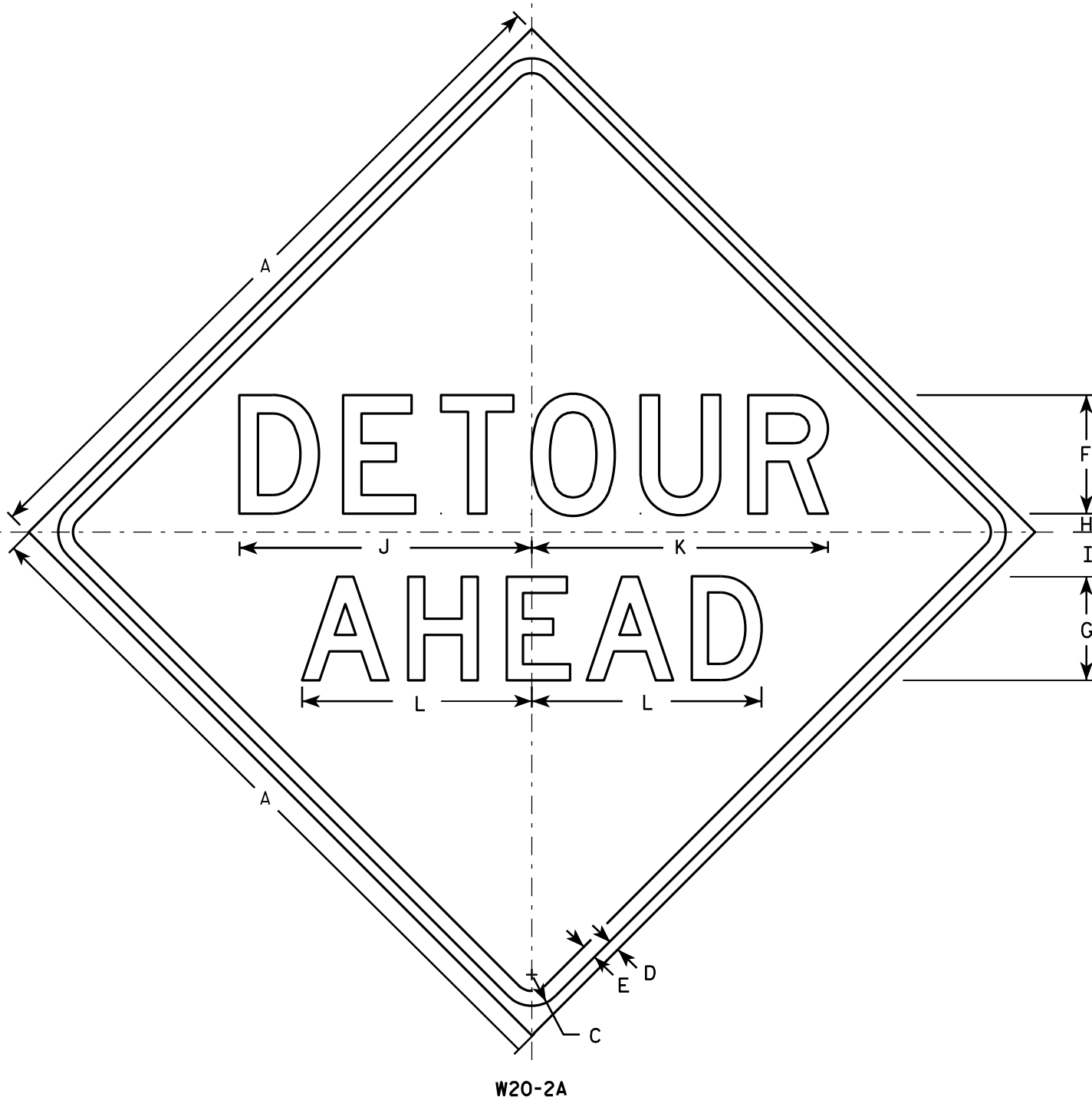
STANDARD SIGN
W5-52L & W5-52R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 5/29/12 PLATE NO. W5-52.9

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



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Orange
Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Line 1 is Series D.
Line 2 is Series D for AHEAD and Series C for all other distances.

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	36		1 5/8	5/8	3/4	6	5	1	2 1/4	14 3/4	15	11 5/8	9	1 3/8	1 7/8	5 5/8	10 1/8	2 1/2	1 1/8	4 1/2	3 1/2	8	1 3/4	10 3/4			9.0
2S	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
2M	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
3	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
4	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
5	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0

STANDARD SIGN
W20-2A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Raub*
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-2.6

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

DESIGN DATA

LIVE LOAD:
 DESIGN LOADING: HL-93
 INVENTORY RATING FACTOR: RF=1.26
 OPERATING RATING FACTOR: RF=1.64
 WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV): 250 KIPS

EARTH LOAD:
 DESIGNED FOR FILL HEIGHT RANGE OF 2 TO 3 FEET

MATERIAL PROPERTIES:
 CONCRETE MASONRY _____ f'c = 3,500 P.S.I.

BAR STEEL REINFORCEMENT, GRADE 60 - fy = 60,000 P.S.I.

TRAFFIC VOLUME

STH 156
 A.D.T. (2023) = 1300
 A.D.T. (2043) = 1600
 DESIGN SPEED = 60 MPH

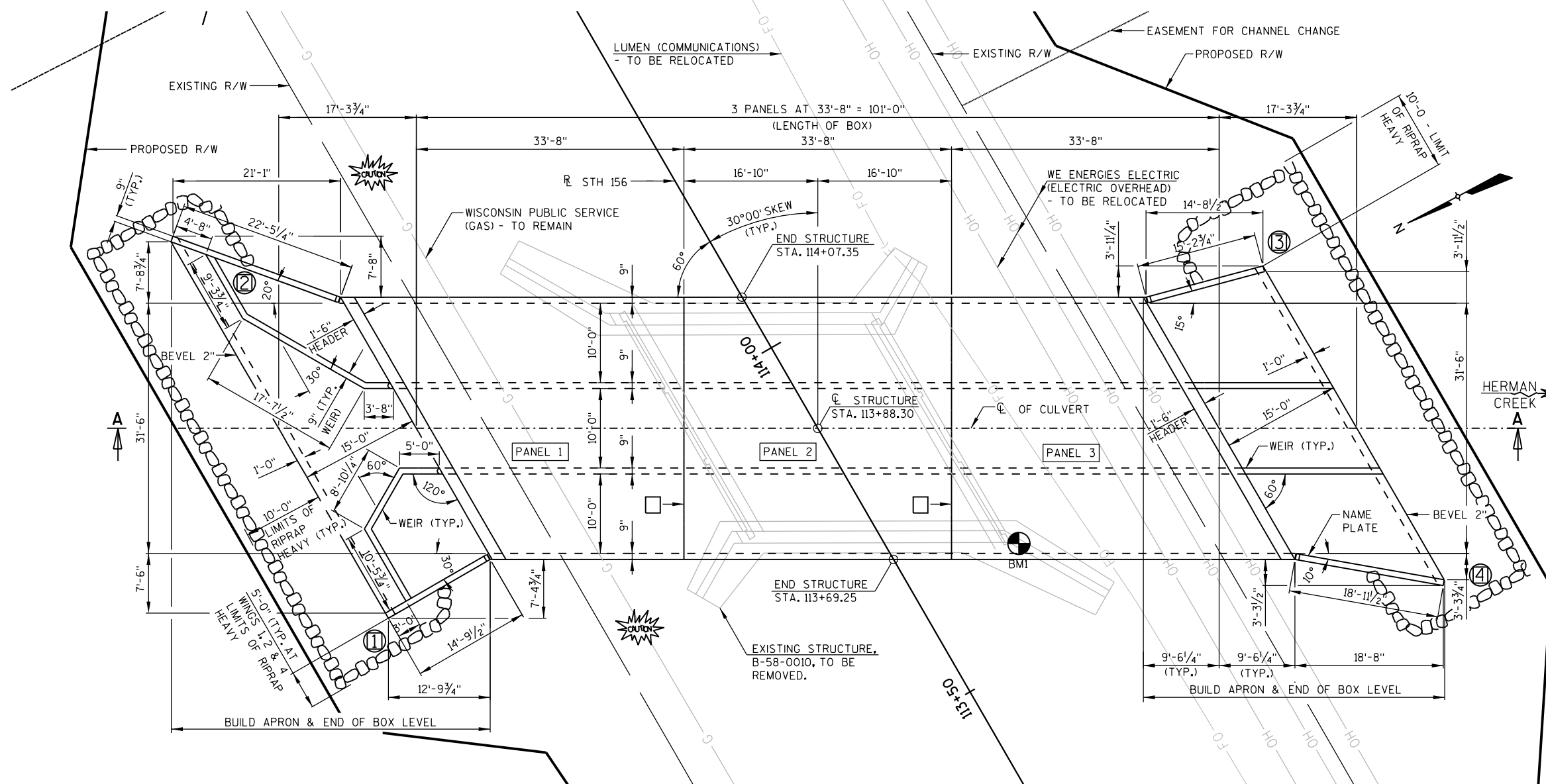
HYDRAULIC DATA

100 YEAR FREQUENCY
 Q100 _____ 550 CFS
 VELOCITY _____ 3.2 FPS
 HIGH WATER ELEVATION _____ 825.89
 DRAINAGE AREA _____ 7.6 SQ. MI.
 ROAD OVERTOPPING _____ N/A
 SCOUR CRITICAL CODE _____ 8

2 YEAR FREQUENCY
 Q2 _____ 160 CFS
 VELOCITY _____ 1.3 FPS
 HIGH WATER 2 ELEVATION _____ 824.15

LIST OF DRAWINGS

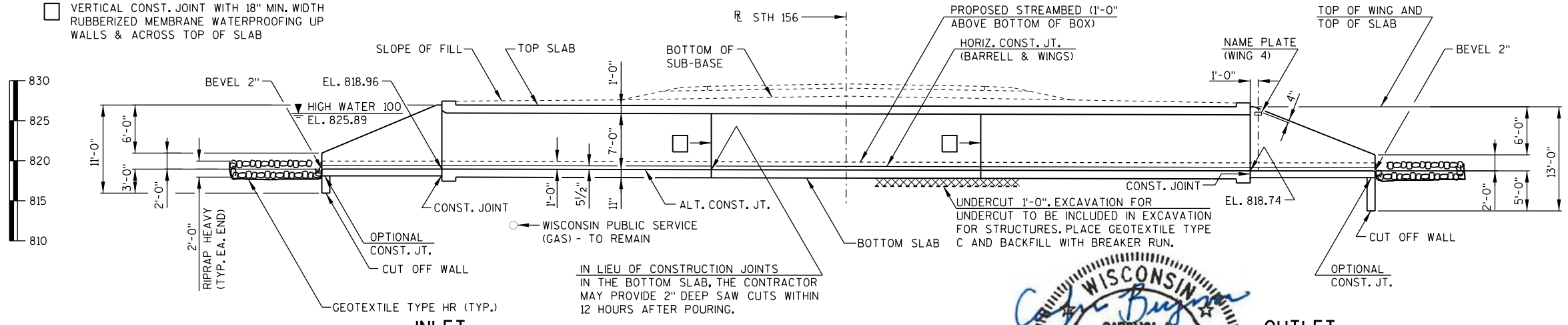
1. GENERAL PLAN
2. CROSS SECTION & QUANTITIES
3. SUBSURFACE EXPLORATION
4. BOX PANEL DETAILS 1
5. BOX PANEL DETAILS 2
6. BOX PANEL DETAILS 3
7. BOX DETAILS
8. BOX BILL OF BARS
9. APRON DETAILS
10. WINGS 1 & 2 ELEVATIONS
11. WINGS 1 & 2 SECTIONS
12. INLET APRON BILL OF BARS
13. WINGS 3 & 4 ELEVATIONS
14. WINGS 3 & 4 SECTIONS
15. OUTLET APRON BILL OF BARS



PLAN
(LOOKING UPSTATION)

LEGEND

- (X) INDICATES WING NUMBER
- VERTICAL CONST. JOINT WITH 18" MIN. WIDTH RUBBERIZED MEMBRANE WATERPROOFING UP WALLS & ACROSS TOP OF SLAB



SECTION A-A

BENCH MARK TABLE

NO.	STATION	DESCRIPTION	ELEVATION
1	113+63.1, 14.7' RT.	TOP OF WINGWALL AT SW CORNER OF EXISTING STRUCTURE.	829.94

HORIZ. DATUM - NAD83/2011, VERTICAL DATUM - NAVD 88 (2012),
 COORDINATE SYSTEM: WISCRS, SHAWANO COUNTY

OUTLET

STRUCTURES DESIGN CONTACTS

BRIDGE OFFICE:
 AARON BONK (608) 261-0261
 CONSULTANT:
 CAROLYN BRUGMAN (715) 342-3075
 AECOM PROJECT NO. 60608240



7/26/21

NO.	DATE	REVISION	BY
AECOM			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
ACCEPTED	<i>[Signature]</i>	SDR	11/08/21
		CHIEF STRUCTURES DESIGN ENGINEER	DATE
STRUCTURE B-58-119			
STH 156 HERMAN CREEK CROSSING			
COUNTY	SHAWANO	TOWN/CITY/VILLAGE	LESSOR
DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS			
DESIGNED BY	CAB	DESIGN CK'D.	MSK
DRAWN BY	MES	PLANS CK'D.	CAB
GENERAL PLAN			SHEET 1 OF 15

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 BATCH PRINT SHEET 1 OF 15
 PLOT DATE: 11/4/2021
 PLOT TIME: 5:22:27 PM

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

ALL STATIONS AND ELEVATIONS ARE IN FEET.

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

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

WITHIN THE LENGTH OF THE BOX, ALL SPACES EXCAVATED AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL TO THE ELEVATION AND SECTION EXISTING PRIOR TO EXCAVATION WITHIN THE LENGTH OF THE CULVERT.

APRON SHALL BE POURED AND CURED PRIOR TO BACKFILLING WINGWALLS.

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

THE BACKFILL QUANTITIES ARE BASED ON THE PAY LIMITS SHOWN ON THE PLANS AND MAY NOT REFLECT ACTUAL PLACED QUANTITIES. "BACKFILL STRUCTURE TYPE B" REQUIRED ON THE BOX CULVERT SIDES AND BEHIND THE APRON WINGS FOR 3 FEET. BACKFILL PLACED BEYOND PAY LIMITS OR EXCEEDING PLAN QUANTITIES SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES.

THE "ALTERNATE CUT OFF WALL" DETAIL SHOWN ON SHEET 7 MAY BE USED IN LIEU OF THE CAST-IN-PLACE CONCRETE CUT OFF WALLS. PAYMENT SHALL BE BASED ON CONCRETE CUT OFF WALLS.

EXISTING STRUCTURE IS A SINGLE SPAN CONCRETE T-GIRDER BRIDGE, 31.7 FEET LONG X 28.7 FEET WIDE, TO BE REMOVED.

FILLER SHALL CONFORM TO THE REQUIREMENTS OF AASHTO DESIGNATION M153, TYPES I, II, III OR M213.

UTILITY INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATION AS TO TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE.

ANY ORGANIC MATERIAL FOUND DURING STRUCTURE EXCAVATION SHALL BE REMOVED AND REPLACED WITH STRUCTURE BACKFILL.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES CULVERTS B-58-119" SHALL BE THE EXISTING GROUNDLINE.

LOCATE NAME PLATE ON NEAREST RIGHT WING TRAVELING UP STATION, FACE NAME PLATE UP STATION.

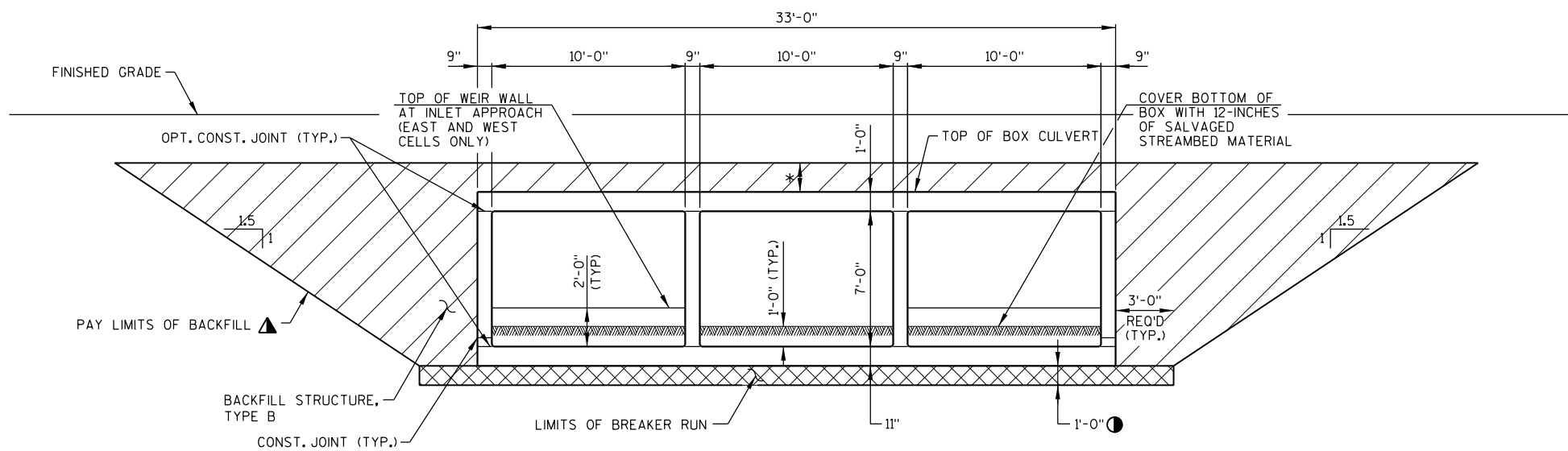
THE CONTRACTOR MAY FURNISH A PRECAST CONCRETE BOX CULVERT IN LIEU OF THE CAST-IN-PLACE BOX CULVERT WITH THE ACCEPTANCE OF THE SHOP DRAWINGS BY THE STRUCTURES DESIGN SECTION. THE PRECAST CONCRETE BOX CULVERT SHALL CONFORM TO PRECAST DETAILS IN CHAPTER 36 STANDARDS OF THE CURRENT WISCONSIN DOT BRIDGE MANUAL.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

LEGEND

① UNDERCUT 1'-0", PLACE GEOTEXTILE TYPE C, AND BACKFILL WITH BREAKER RUN. EXTEND 3'-0" BEYOND THE FOOTPRINT OF THE CULVERT.

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

* 1'-0" OR TO BOTTOM OF ROADWAY SUBGRADE/BOTTOM OF TOPSOIL.

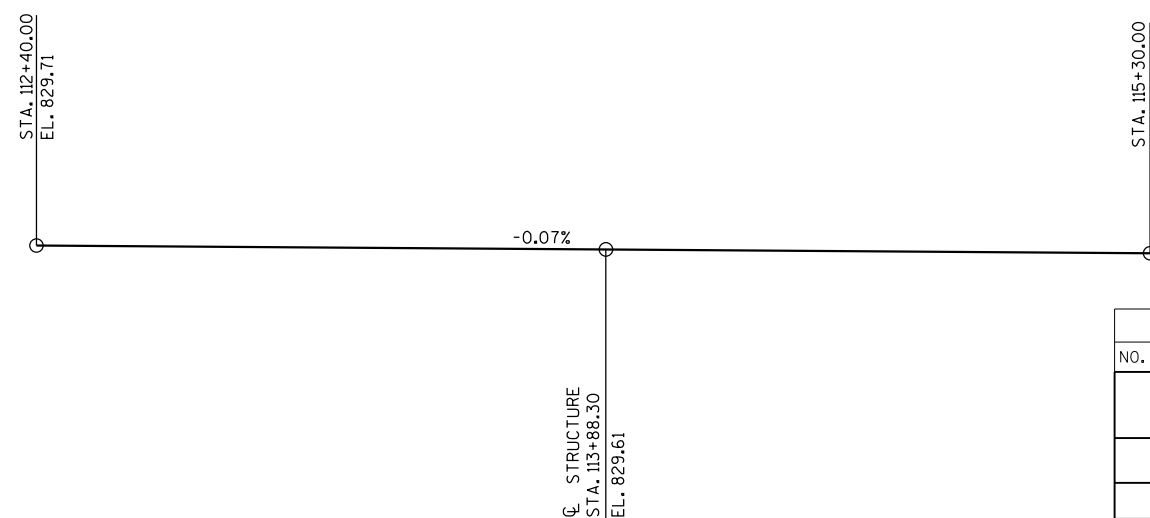


TYPICAL SECTION THRU BOX CULVERT

(LOOKING UPSTREAM - SHOWING LIMITS OF EXCAVATION AND STRUCTURE BACKFILL)

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEM	UNIT	TOTALS
203.0260	REMOVING OLD STRUCTURE OVER WATERWAY MINIMAL DEBRIS B-58-119	EACH	1
206.2000	EXCAVATION FOR STRUCTURES CULVERTS B-58-119	LS	1
210.2500	BACKFILL STRUCTURE TYPE B	TON	1,890
311.0115	BREAKER RUN	CY	210
504.0100	CONCRETE MASONRY CULVERTS	CY	389
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	19,460
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	25,280
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	70
606.0300	RIPRAP HEAVY	CY	120
645.0105	GEOTEXTILE TYPE C	SY	620
645.0120	GEOTEXTILE TYPE HR	SY	280
SPV.0060	TEMPORARY STREAM DIVERSION STRUCTURE B-58-119	EACH	1
	NON-BID ITEMS		
	FILLER	SIZE	3/4"



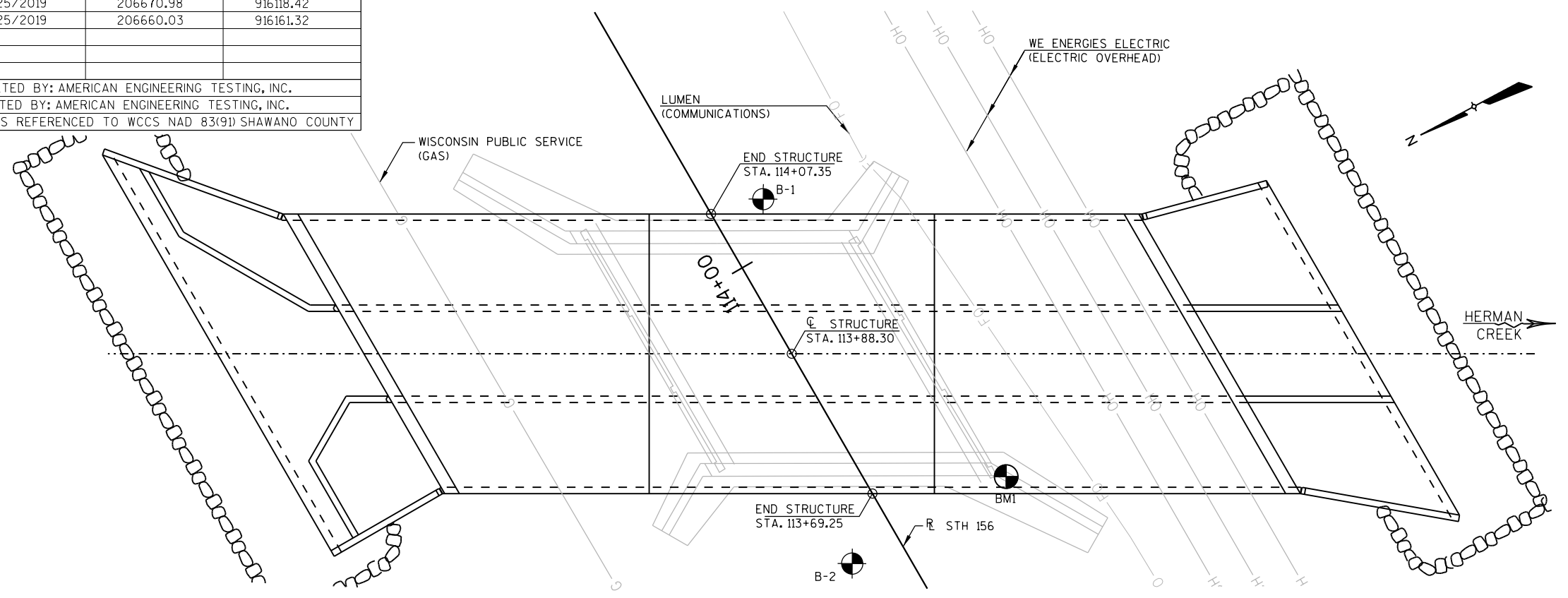
PROFILE GRADE LINE - STH 156

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-58-119			
DRAWN BY MES		PLANS CK'D. CAB	
CROSS SECTION & QUANTITIES			SHEET 2 OF 15

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 PLOT DATE: 11/4/2021 PLOT TIME: 5:22:28 PM BATCH PRINT SHEET 2 OF 15

BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
1	9/25/2019	206670.98	916118.42
2	9/25/2019	206660.03	916161.32

BORINGS COMPLETED BY: AMERICAN ENGINEERING TESTING, INC.
 REPORT COMPLETED BY: AMERICAN ENGINEERING TESTING, INC.
 ALL COORDINATES REFERENCED TO WCCS NAD 83(91) SHAWANO COUNTY



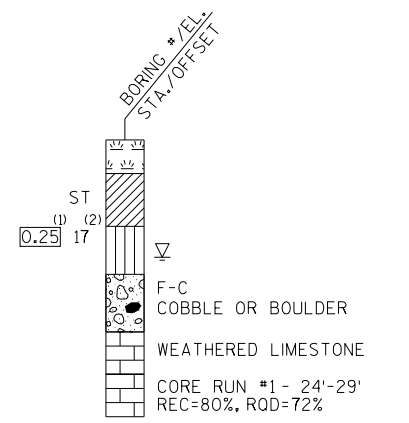
STATE PROJECT NUMBER

6580-10-71

MATERIAL SYMBOLS

	ASPHALT		TOPSOIL		PEAT
	CONCRETE		FILL		GRAVEL
	SAND		CLAY		SILT
	BOULDERS OR COBBLES		LIMESTONE		BEDROCK (UNKNOWN)
	SHALE		SANDSTONE		IGNEOUS/META

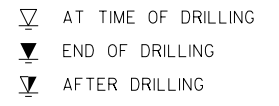
LEGEND OF BORING



(1) UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)

(2) UNLESS OTHERWISE, SPECIFIED THE SPT 'N' VALUE IS BASED ON AASHTO T-206, STANDARD PENETRATION TEST. THE SPT 'N' VALUE PRESENTED HAS NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER EFFICIENCY.

GROUND WATER ELEVATION

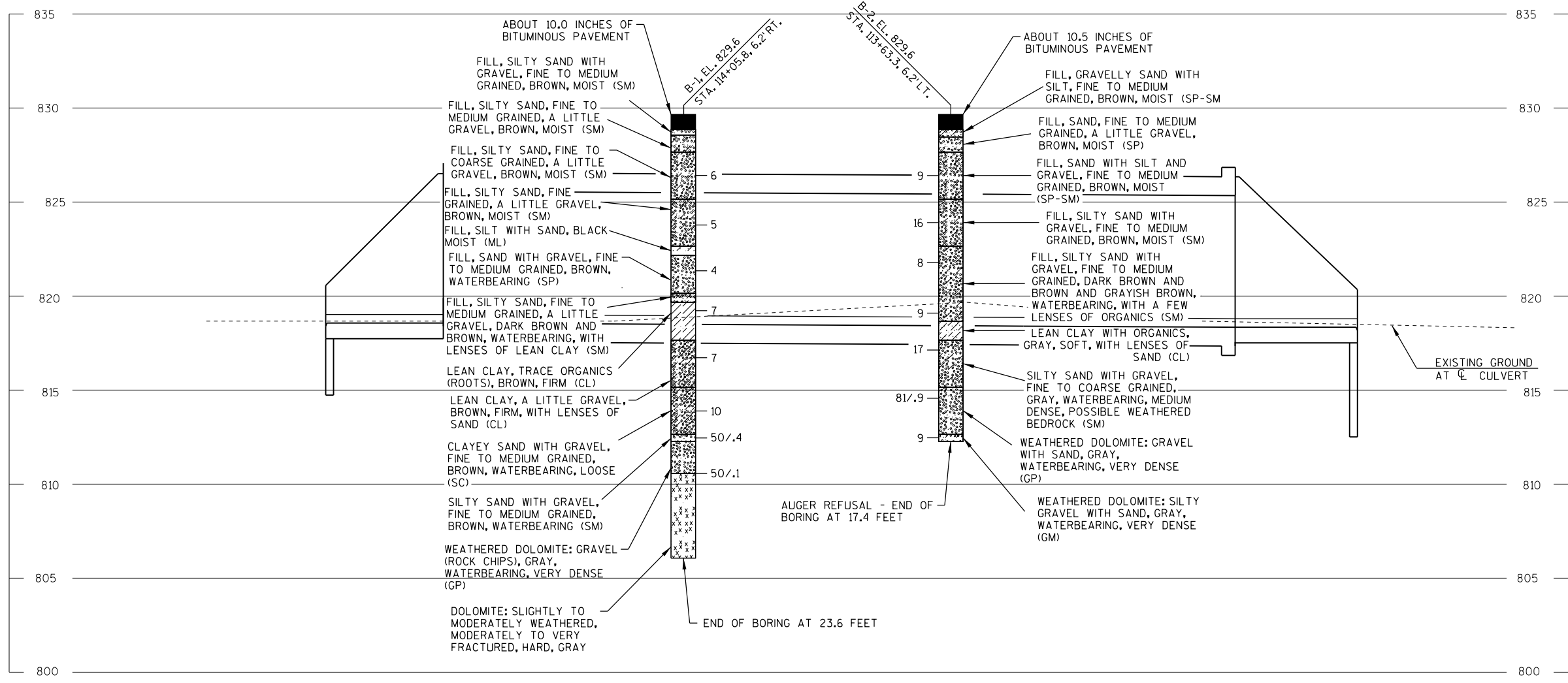


ABBREVIATIONS

F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

BORINGS WERE COMPLETED AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW, BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.



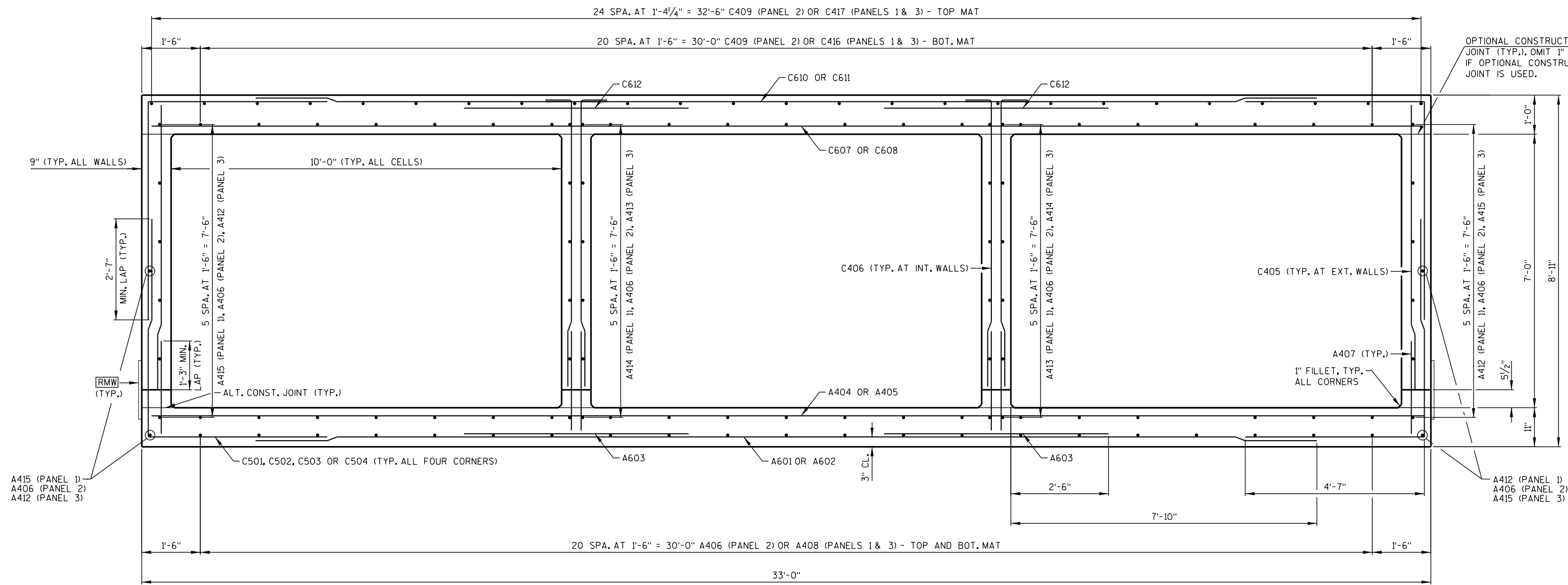
8

8

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-58-119			
DRAWN BY		TRA	PLANS CAB
SUBSURFACE EXPLORATION		SHEET 3 OF 15	

SCALE =

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 PLOT DATE: 11/4/2021 PLOT TIME: 5:22:47 PM BATCH PRINT SHEET 4 OF 15



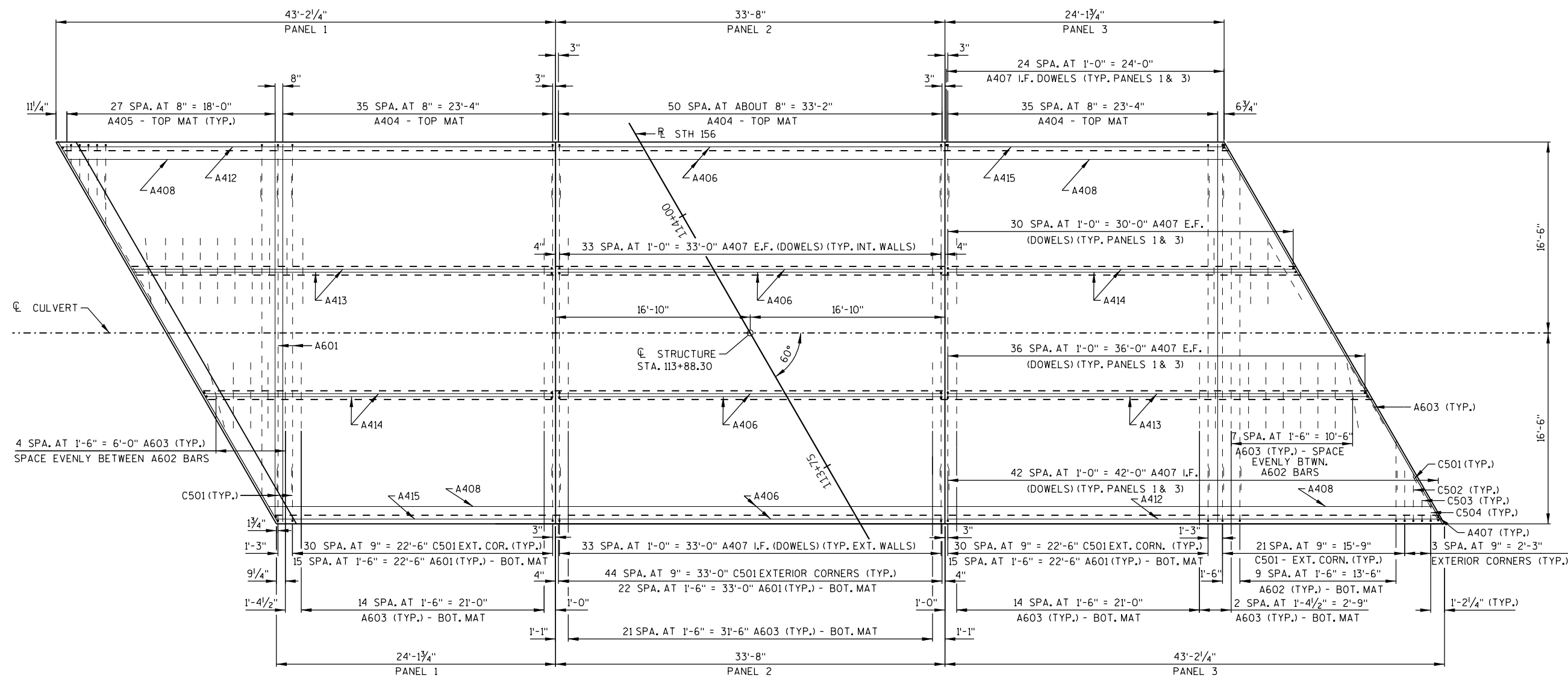
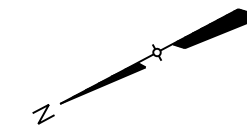
TYPICAL SECTION THRU BOX
(LOOKING UPSTREAM)

LEGEND

RMW 18" RUBBERIZED MEMBRANE WATERPROOFING. PLACE ALONG HORIZONTAL CONSTRUCTION JOINT AT BOX AND PLACE UP WALLS & ACROSS TOP SLAB AT VERTICAL CONSTRUCTION JOINTS. AT VERTICAL CONSTRUCTION JOINTS, EXTEND 6" MIN. BELOW TOP OF BOTTOM SLAB.

I.F. INSIDE FACE
 E.F. EACH FACE

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-58-119			
DRAWN BY MES		PLANS CK'D. CAB	
BOX PANEL DETAILS 1			SHEET 4 OF 15



BOTTOM SLAB SPAN

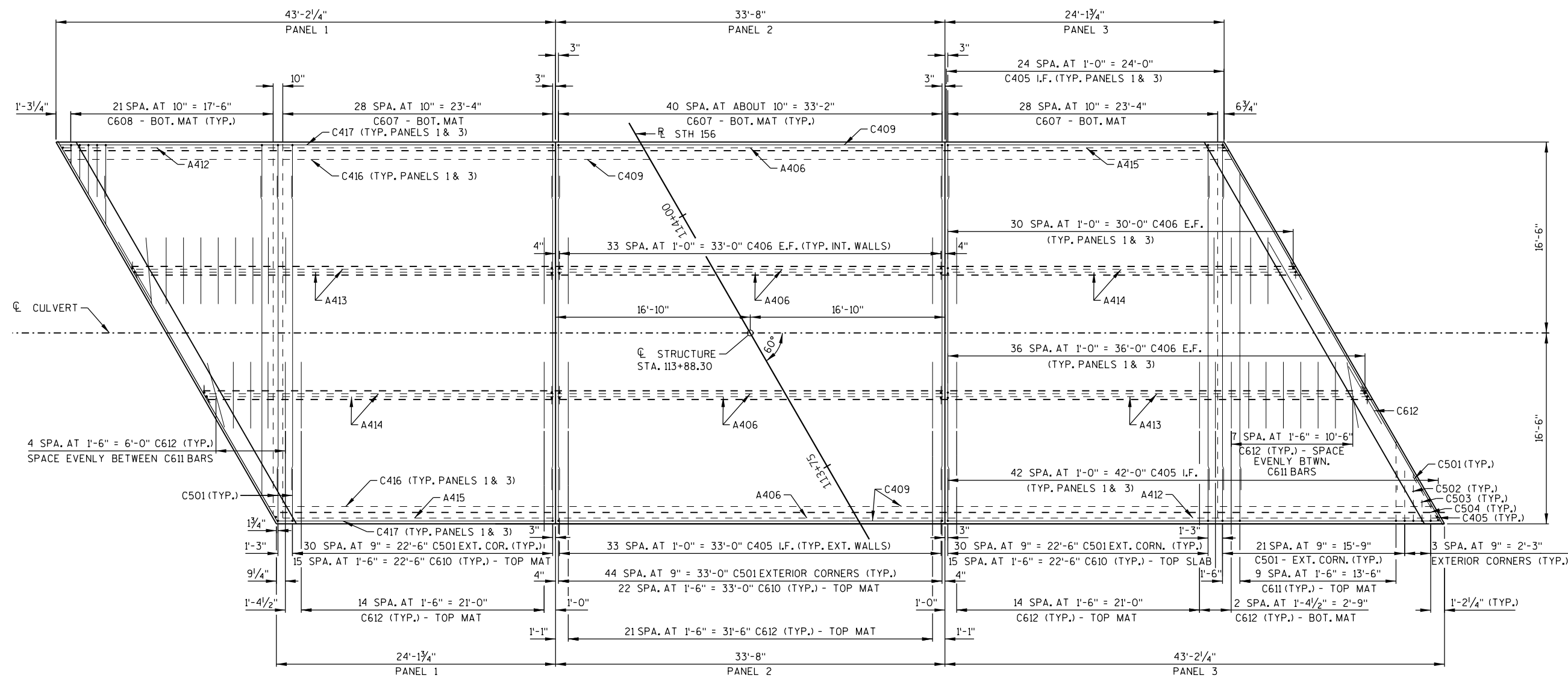
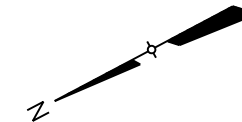
NOTE: HEADER BAR STEEL REINF. NOT SHOWN FOR CLARITY.

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 BATCH PRINT SHEET 5 OF 15
 PLOT TIME: 11/4/2021 5:22:47 PM

8

8

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-58-119			
DRAWN BY MES		PLANS CK'D. CAB	
BOX PANEL DETAILS 2			SHEET 5 OF 15

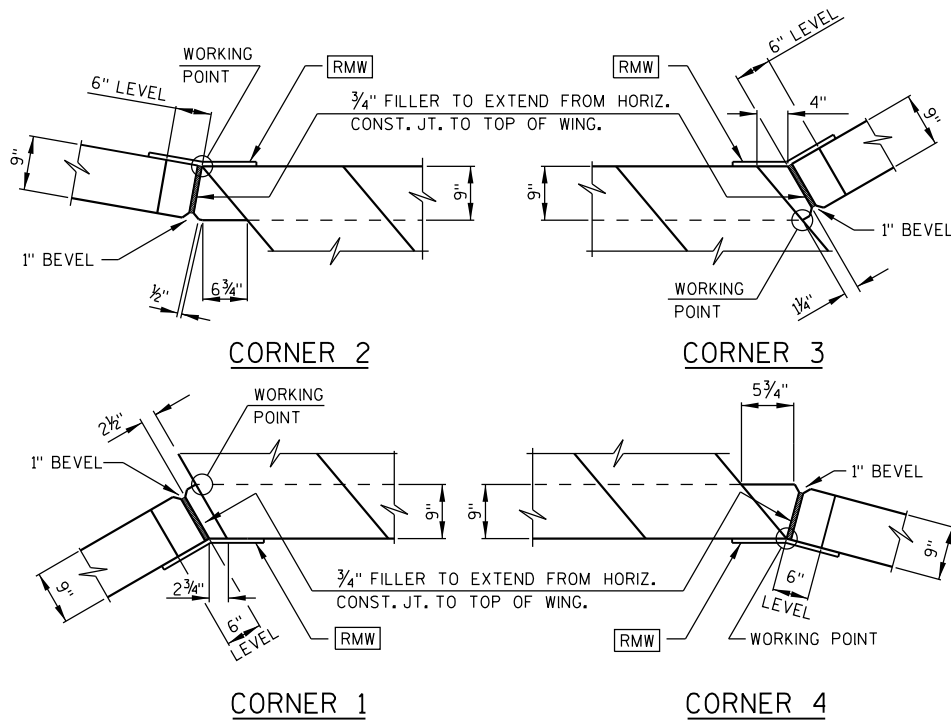


TOP SLAB SPAN

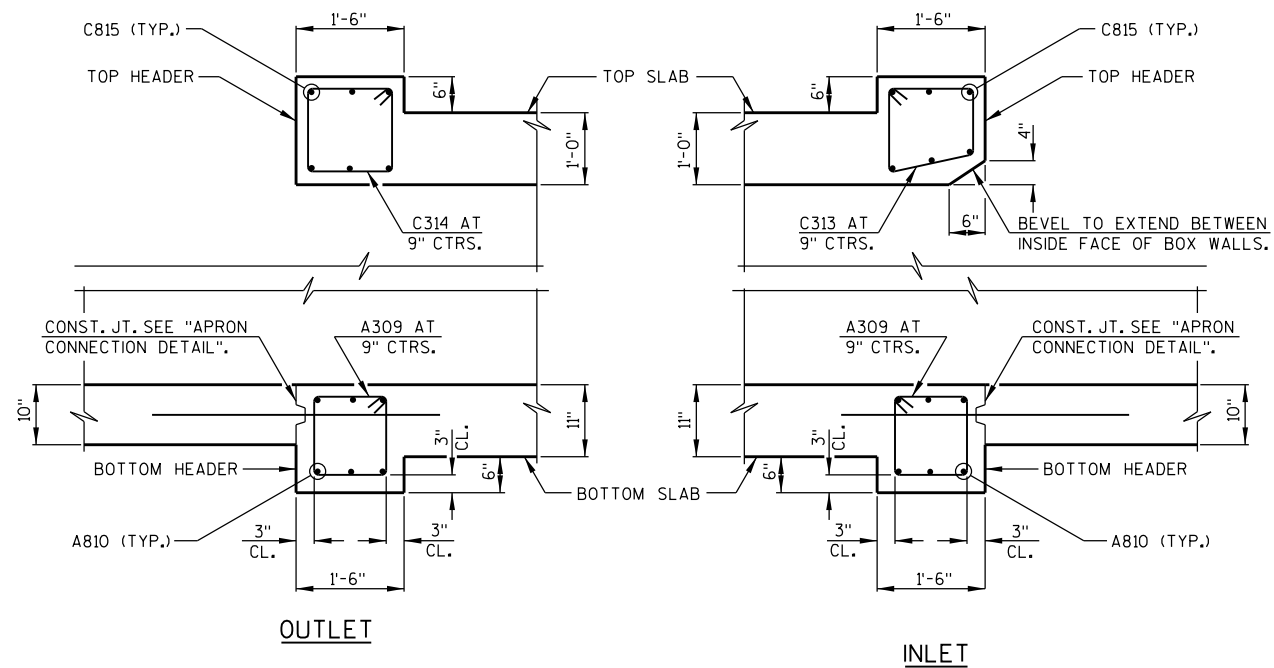
NOTE: HEADER BAR STEEL REINF. NOT SHOWN FOR CLARITY.

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-58-119			
DRAWN BY MES		PLANS CK'D. CAB	
BOX PANEL DETAILS 3			SHEET 6 OF 15

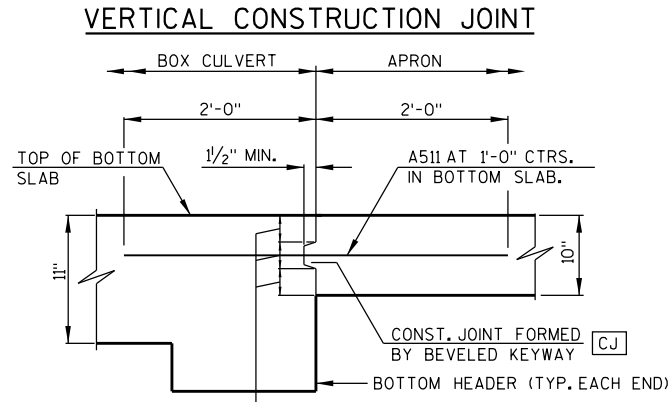
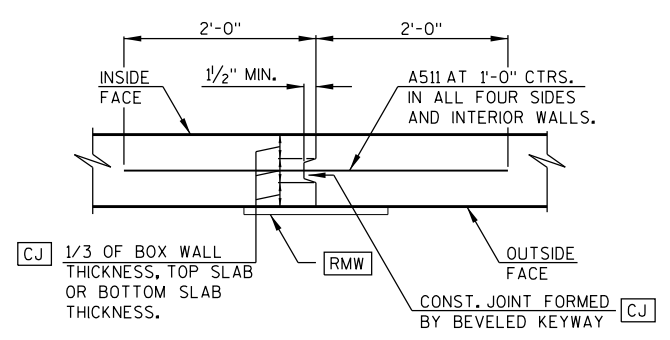
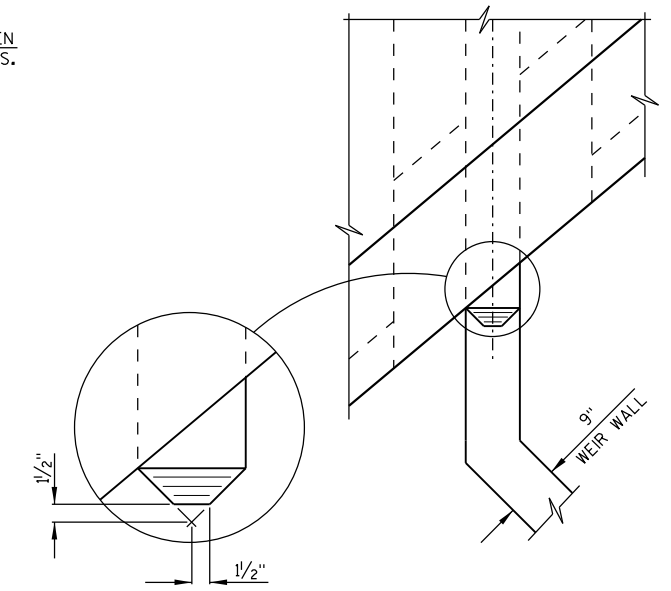
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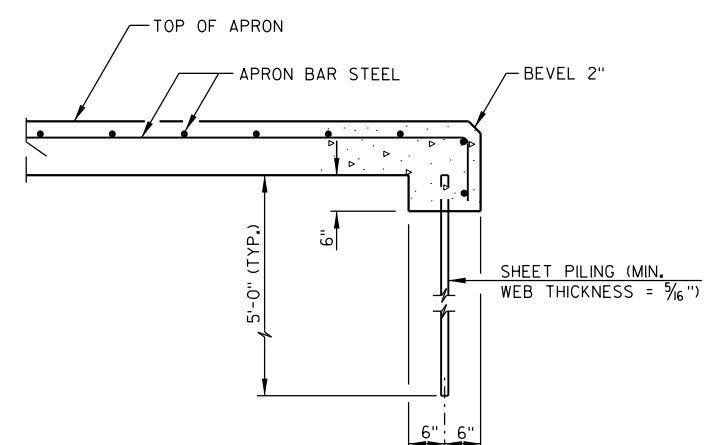
CORNER DETAILS



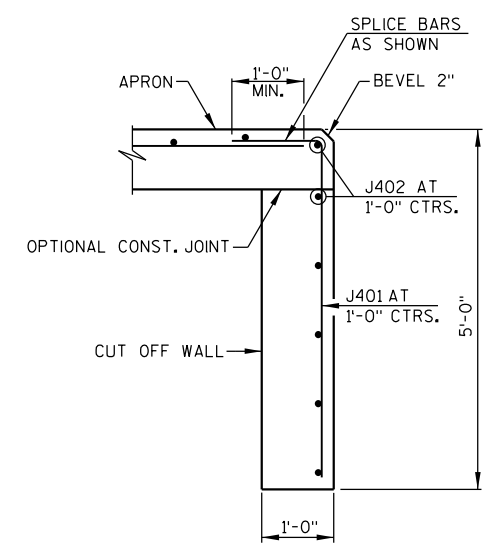
SECTION THRU HEADERS (PLACE A309, C313, & C314 BARS NORMAL TO HEADER.)



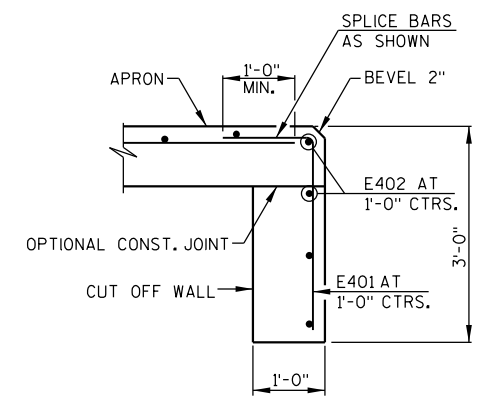
APRON CONNECTION DETAIL



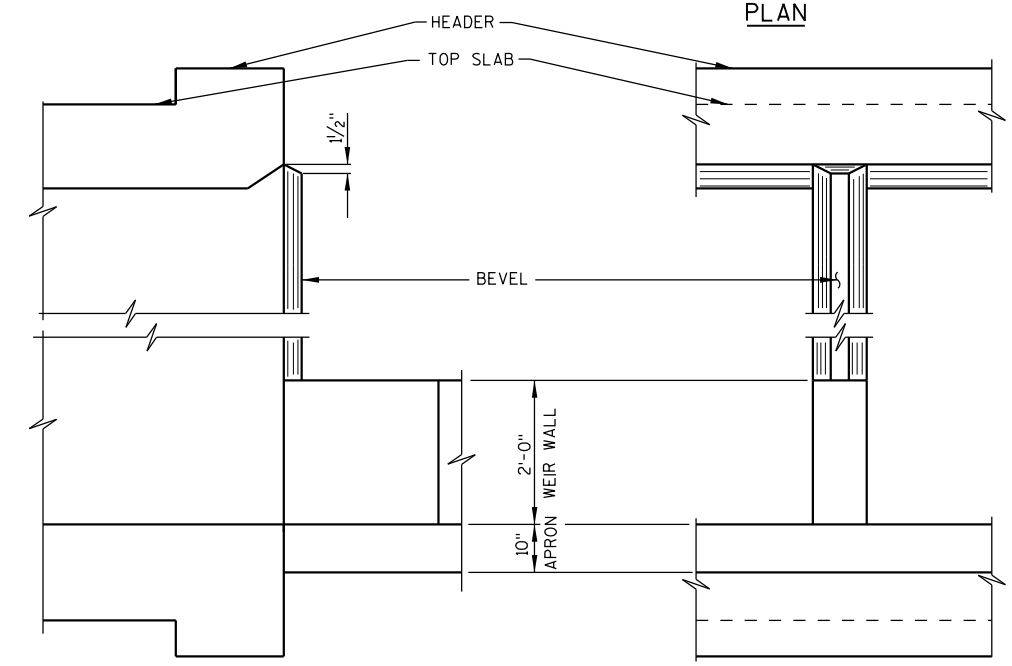
NOTE: THE ABOVE ALTERNATE MAY BE USED IN LIEU OF CONCRETE CUT OFF WALL. THE QUANTITIES AND PAYMENT ARE BASED ON THE CONCRETE CUT OFF WALL.



SECTION THRU OUTLET CUT OFF WALL



SECTION THRU INLET CUT OFF WALL



INLET NOSE DETAIL

LEGEND

RMW 18" RUBBERIZED MEMBRANE WATERPROOFING (RMW). PLACE ALONG HORIZONTAL CONSTRUCTION JOINT AT BOX AND WINGS. PLACE UP WALLS AND ACROSS TOP SLAB AT VERTICAL CONSTRUCTION JOINTS. PLACE RMW VERTICAL AT WING CORNERS FROM THE HORIZ. CONST. JT. TO THE TOP OF WALL (FLUSH WITH FACE OF CONCRETE).

CJ IN LIEU OF CONSTRUCTION JOINTS IN THE BOTTOM SLAB, THE CONTRACTOR MAY USE 2" DEEP SAW CUTS WITHIN 12 HOURS AFTER POURING. A511 BARS AT 1'-0" CENTERS REQUIRED.

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-58-119			
DRAWN BY MES		PLANS CKD. CAB	
BOX DETAILS			SHEET 7 OF 15

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 PLOT DATE: 11/4/2021 PLOT TIME: 5:22:50 PM BATCH PRINT SHEET 7 OF 15

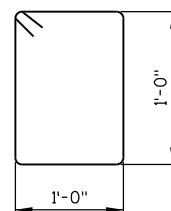
BILL OF BARS

Δ DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BAR.
 Δ LENGTH SHOWN FOR BAR IS AN AVG. LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

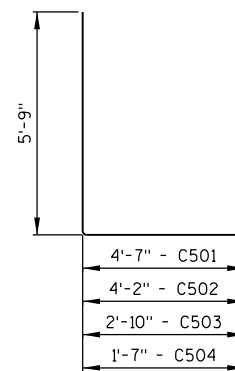
MARK	NO. REQ'D	LENGTH	BENT	BAR SERIES	LOCATION	
NON-COATED BARS						TOTAL WEIGHT = 16,310 LBS
A601	57	27 - 2			BOX - ALL PANELS - BOT. SLAB - BOT. MAT	TRANS.
A602	20	15 - 11		Δ	BOX - PANELS 1 & 3 - BOT. SLAB - BOT. MAT	TRANS.
A603	134	5 - 9			BOX - ALL PANELS - BOT. SLAB - BOT. MAT	TRANS.
A404	123	32 - 6			BOX - ALL PANELS - BOT. SLAB - TOP MAT	TRANS.
A405	56	16 - 8		Δ	BOX - PANELS 1 & 3 - BOT. SLAB - TOP MAT	TRANS.
A406	82	33 - 4			BOX - PANEL 2 - BOT. SLAB	LONGIT.
A407	614	2 - 8			BOX - WALLS	VERT.
A408	84	33 - 3		Δ	BOX - PANELS 1 & 3 - BOT. SLAB	LONGIT.
A309	100	4 - 5	X		BOX - PANELS 1 & 3 - BOT. HEADER	TRANS.
A810	12	37 - 9			BOX - PANELS 1 & 3 - BOT. HEADER	LONGIT.
A511	266	4 - 0			BOX - PANELS - AT CONSTRUCTION JOINTS	LONGIT.
A412	16	42 - 6			BOX WALL - PANELS 1 & 3 OUTSIDE WALL LONG	LONGIT.
A413	24	36 - 3			BOX WALL - PANELS 1 & 3 INSIDE WALL LONG	LONGIT.
A414	24	30 - 1			BOX WALL - PANELS 1 & 3 INSIDE WALL SHORT	LONGIT.
A415	16	24 - 1			BOX WALL - PANELS 1 & 3 OUTSIDE WALL SHORT	LONGIT.
COATED BARS						TOTAL WEIGHT = 23,110 LBS
C501	524	10 - 3	X		BOX - ALL PANELS - OUTSIDE WALL CORNERS	VERT.
C502	4	9 - 10	X		BOX - PANELS 1 & 3 - ACUTE CORNERS	VERT.
C503	4	8 - 6	X		BOX - PANELS 1 & 3 - ACUTE CORNERS	VERT.
C504	4	7 - 3	X		BOX - PANELS 1 & 3 - ACUTE CORNERS	VERT.
C405	206	7 - 2			BOX - EXTERIOR WALLS - INSIDE FACE	VERT.
C406	408	7 - 6	X		BOX - INTERIOR WALLS - EACH FACE	VERT.
C607	99	32 - 6			BOX - ALL PANELS - TOP SLAB - BOT. MAT	TRANS.
C608	44	16 - 10		Δ	BOX - PANELS 1 & 3 - TOP SLAB - BOT. MAT	TRANS.
C409	46	33 - 4			BOX - PANEL 2 - TOP SLAB	LONGIT.
C610	57	27 - 2			BOX - ALL PANELS - TOP SLAB - TOP MAT	TRANS.
C611	20	15 - 11		Δ	BOX - PANELS 1 & 3 - TOP SLAB - TOP MAT	TRANS.
C612	134	5 - 9			BOX - ALL PANELS - TOP SLAB - TOP MAT	TRANS.
C313	50	4 - 8	X		BOX - PANEL - TOP HEADER - INLET	TRANS.
C314	50	5 - 1	X		BOX - PANEL - TOP HEADER - OUTLET	TRANS.
C815	12	37 - 9			BOX - PANELS 1 & 3 - TOP HEADER	LONGIT.
C416	42	33 - 3		Δ	BOX - PANELS 1 & 3 - TOP SLAB - BOT. MAT	LONGIT.
C417	50	33 - 3		Δ	BOX - PANELS 1 & 3 - TOP SLAB - TOP MAT	LONGIT.

BAR SERIES

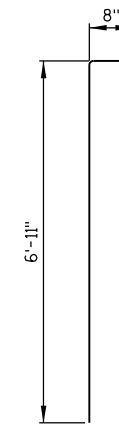
MARK	NO. REQ'D	LENGTH
A602	2 SETS OF 10	4'-3" TO 27'-7"
A405	2 SETS OF 28	1'-1" TO 32'-3"
A408	4 SETS OF 21	24'-7" TO 41'-11"
C608	2 SETS OF 22	1'-8" TO 32'-0"
C611	2 SETS OF 10	4'-3" TO 27'-7"
C416	2 SETS OF 21	24'-7" TO 41'-11"
C417	2 SETS OF 25	23'-11" TO 42'-8"



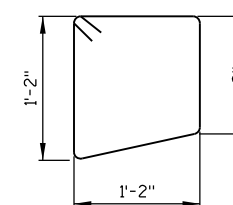
A309



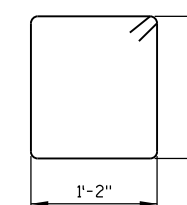
C501, C502, C503, C504



C406



C313

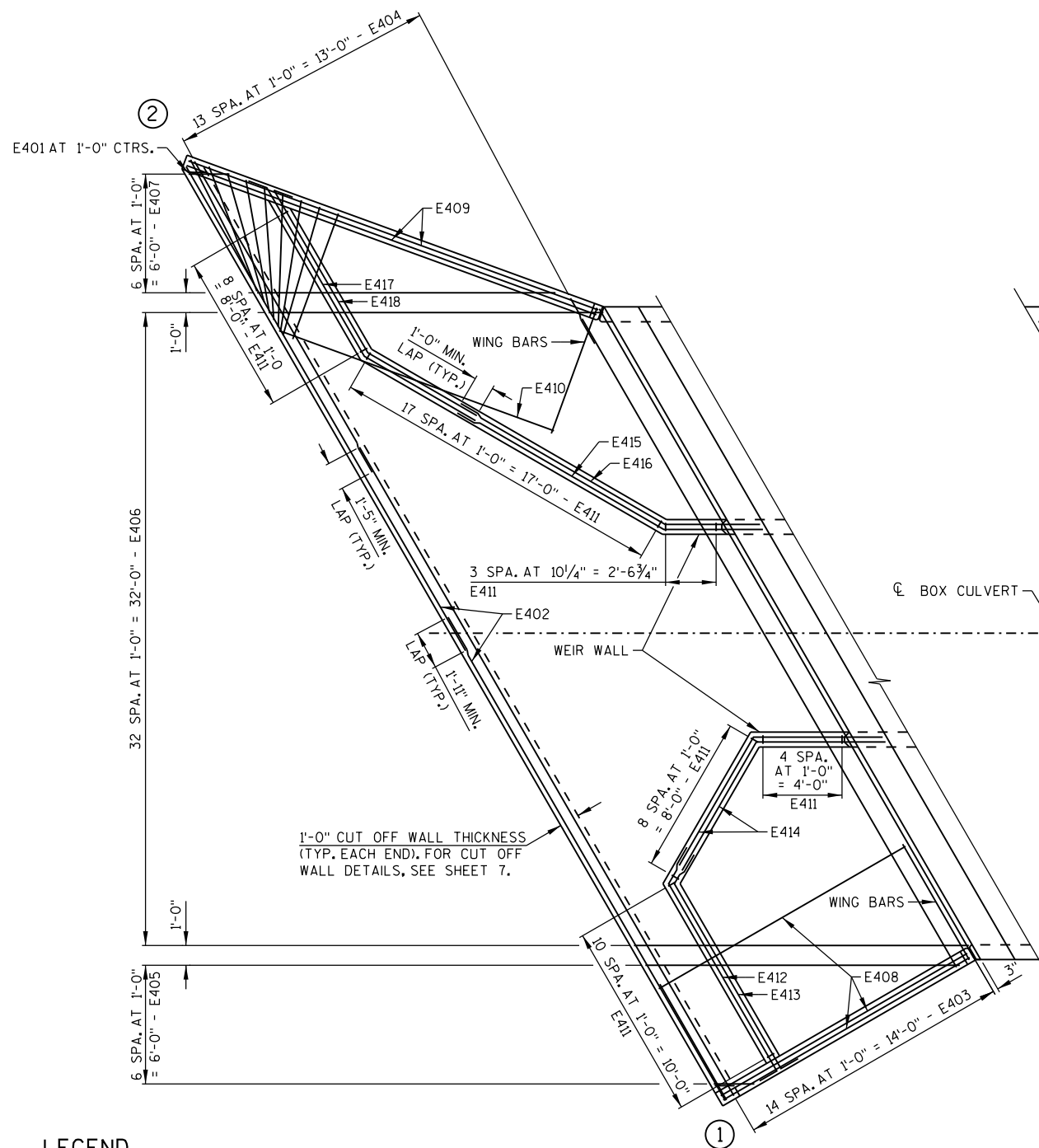


C314

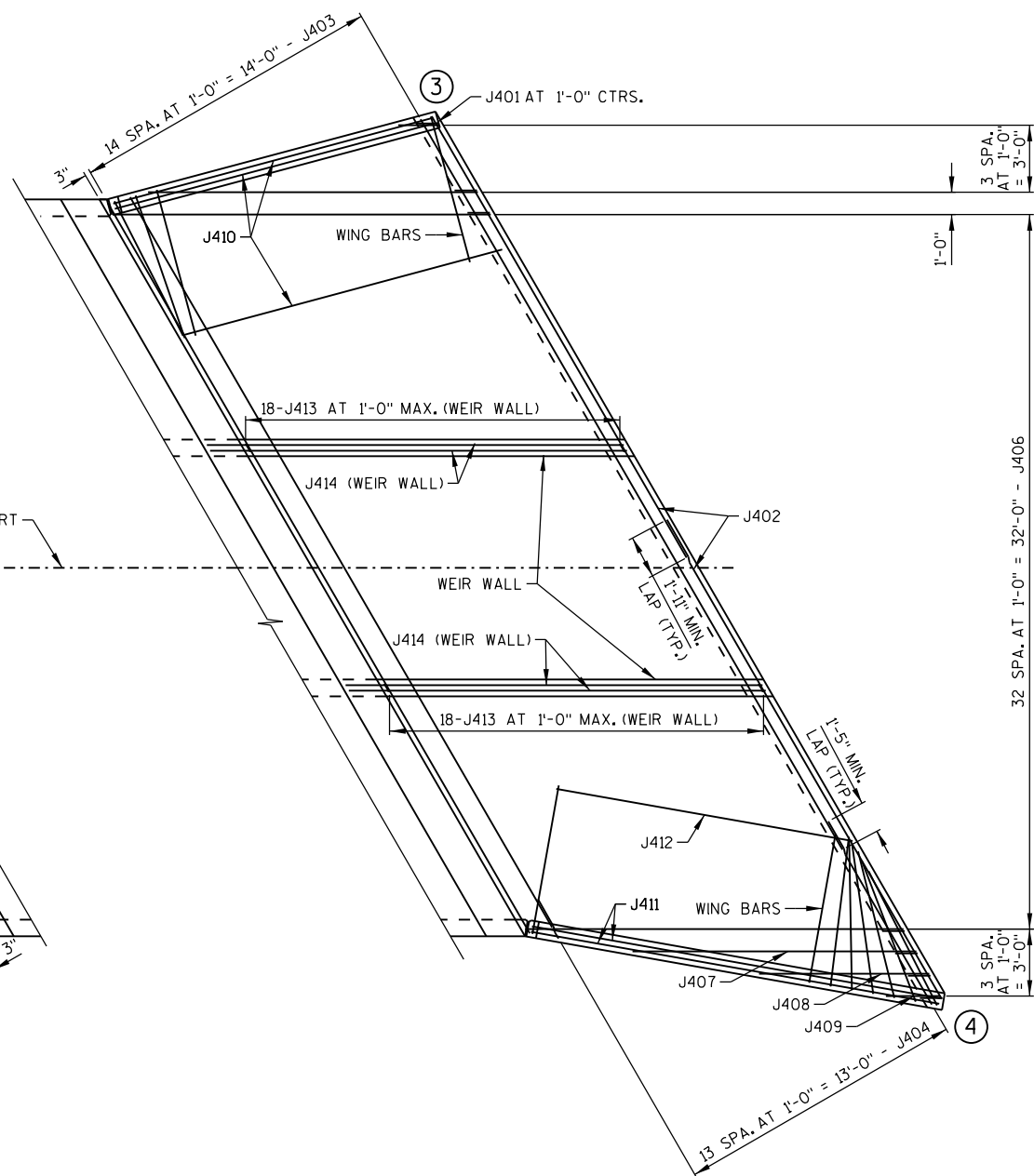
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 PLOT DATE: 11/4/2021 PLOT TIME: 5:22:51 PM BATCH PRINT SHEET 8 OF 15

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-58-119			
DRAWN BY MES		PLANS CK'D. CAB	
BOX BILL OF BARS			SHEET 8 OF 15

PRINTER DRIVER: G:\MP\CLIENT\AMER-USA-WI-WisDOT\dev\WisDOT\Bridg\Ver\A\Plot\dr\VAE.PDF.11 x 17.plt
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 PLOT DATE: 11/4/2021
 PLOT TIME: 5:22:53 PM



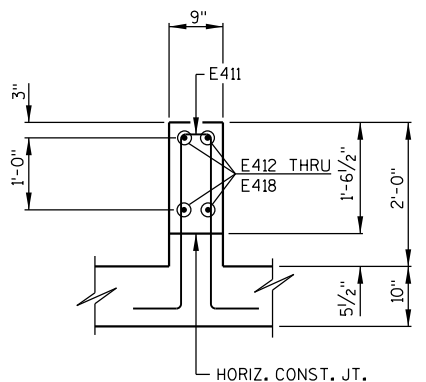
PLAN VIEW OF INLET APRON



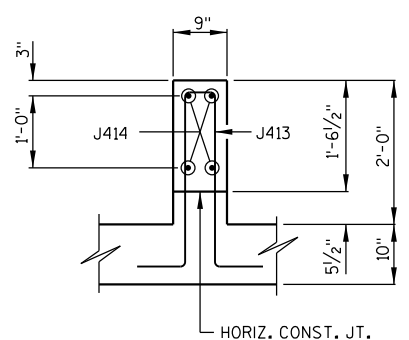
PLAN VIEW OF OUTLET APRON

LEGEND

(X) INDICATES WING NUMBER

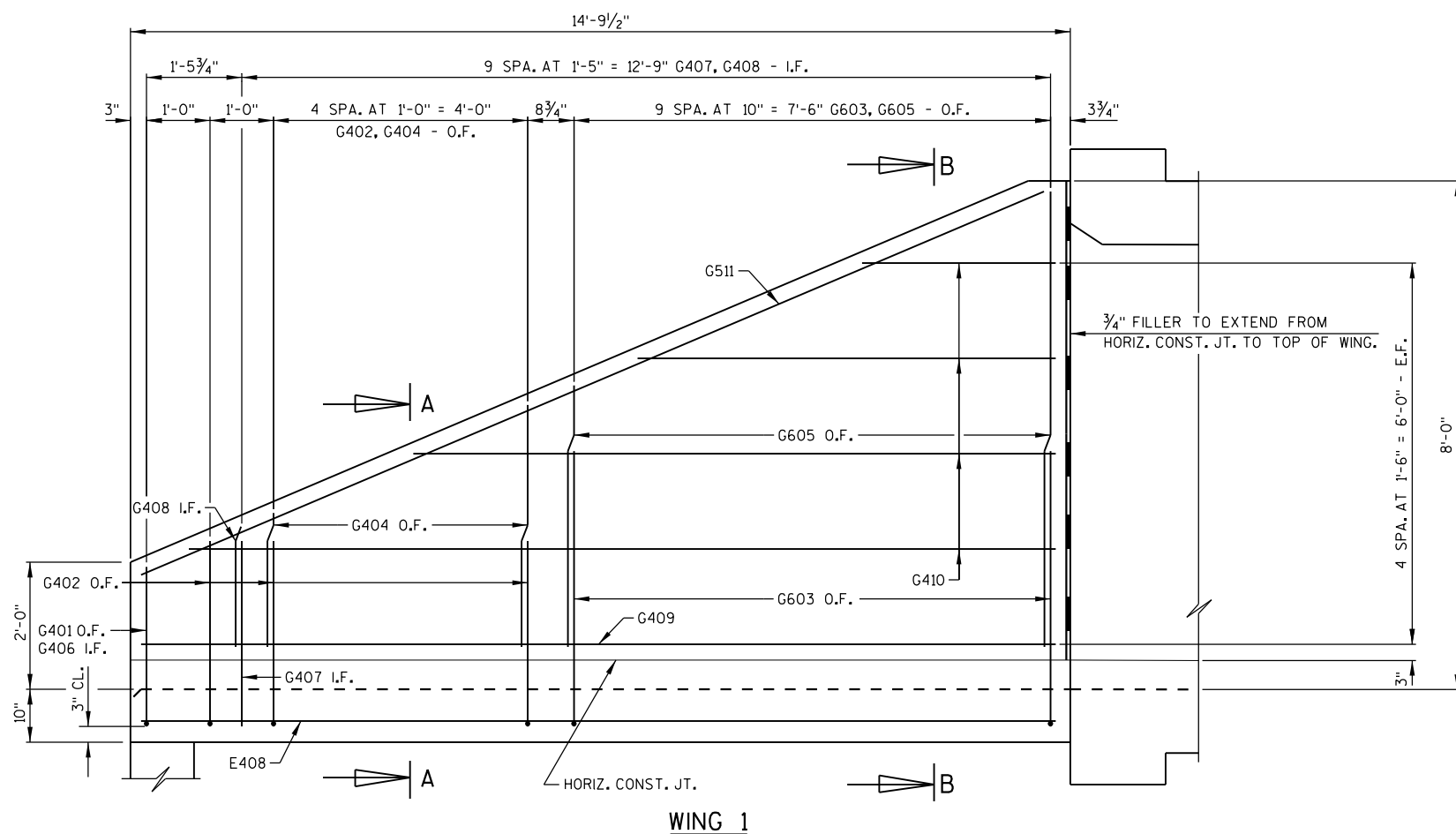


SECTION THRU WEIR WALL - INLET END



SECTION THRU WEIR WALL - OUTLET END

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-58-119			
DRAWN BY MES		PLANS CK'D. CAB	
APRON DETAILS			SHEET 9 OF 15

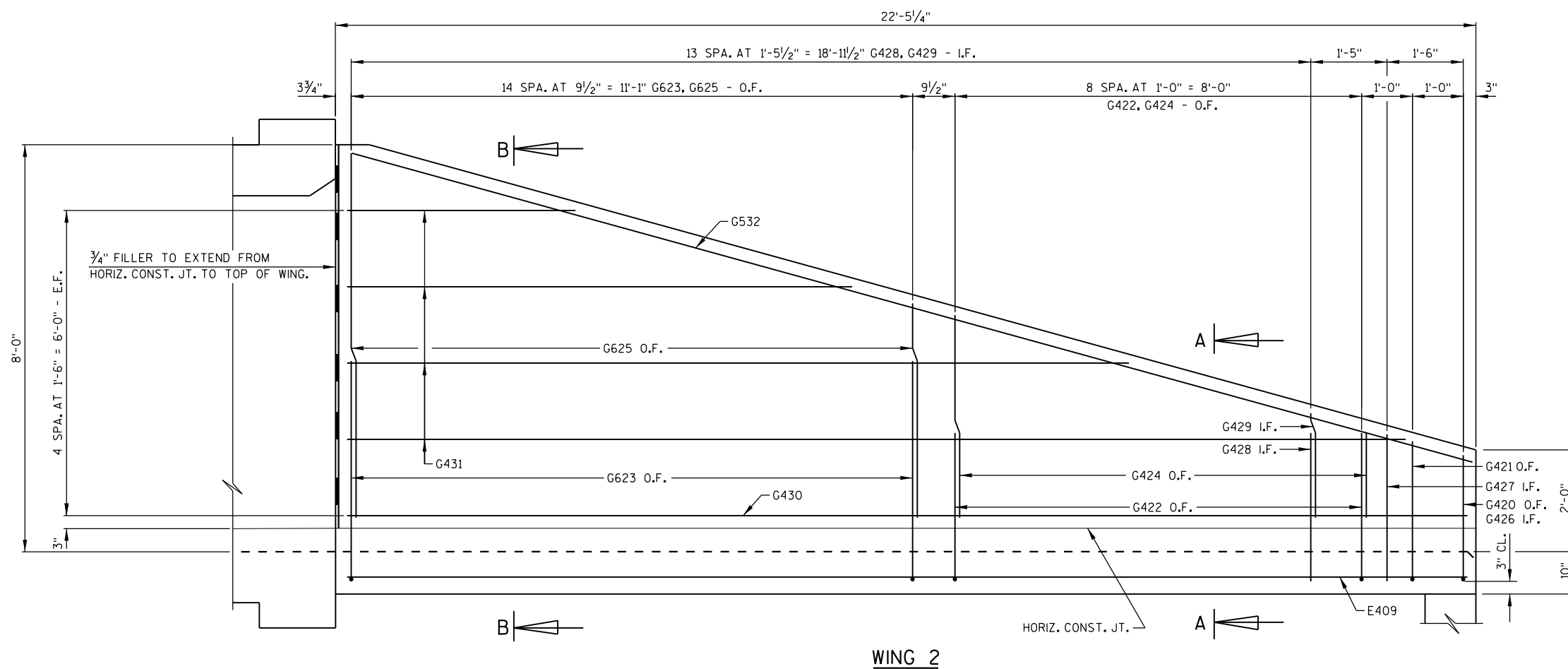


NOTES

FOR SECTIONS A-A & B-B, SEE SHEET 11.

FOR SECTION THRU INLET CUT OFF WALL, SEE SHEET 7.

I.F. = INSIDE FACE
O.F. = OUTSIDE FACE
E.F. = EACH FACE

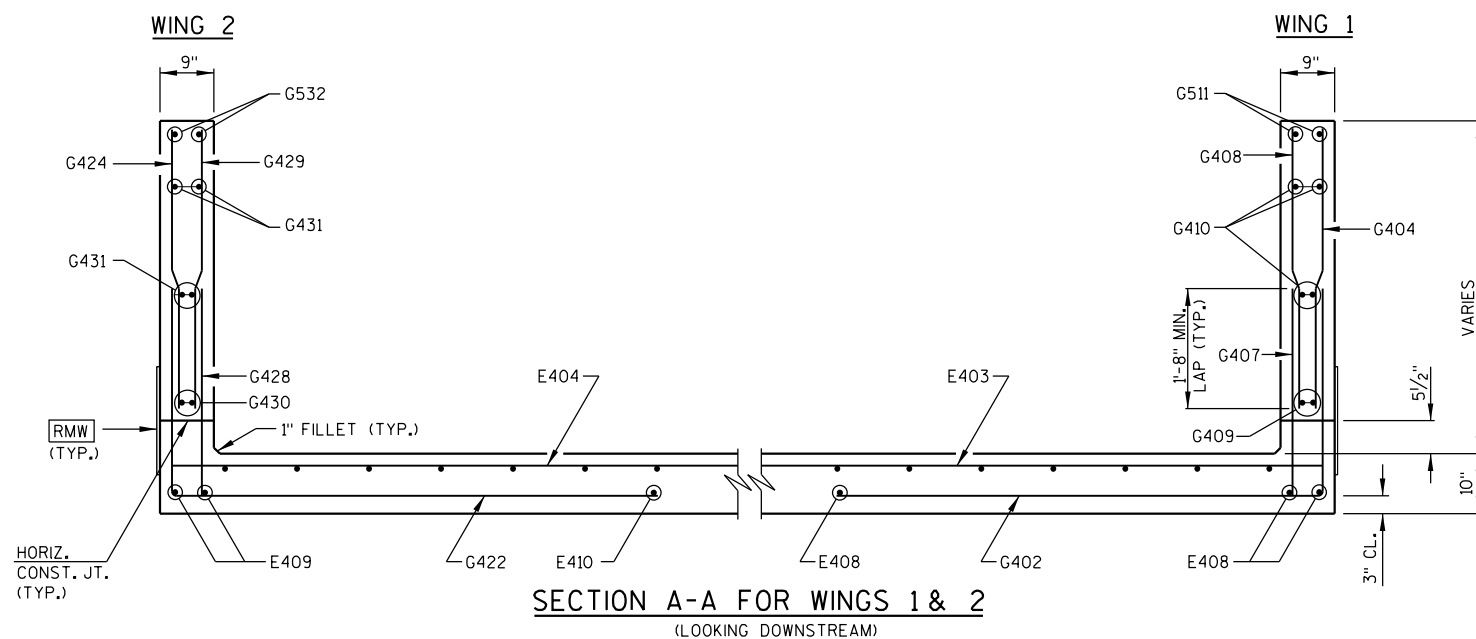


NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-58-119			
DRAWN BY MES		PLANS CK'D. CAB	
WINGS 1 & 2 ELEVATIONS			SHEET 10 OF 15

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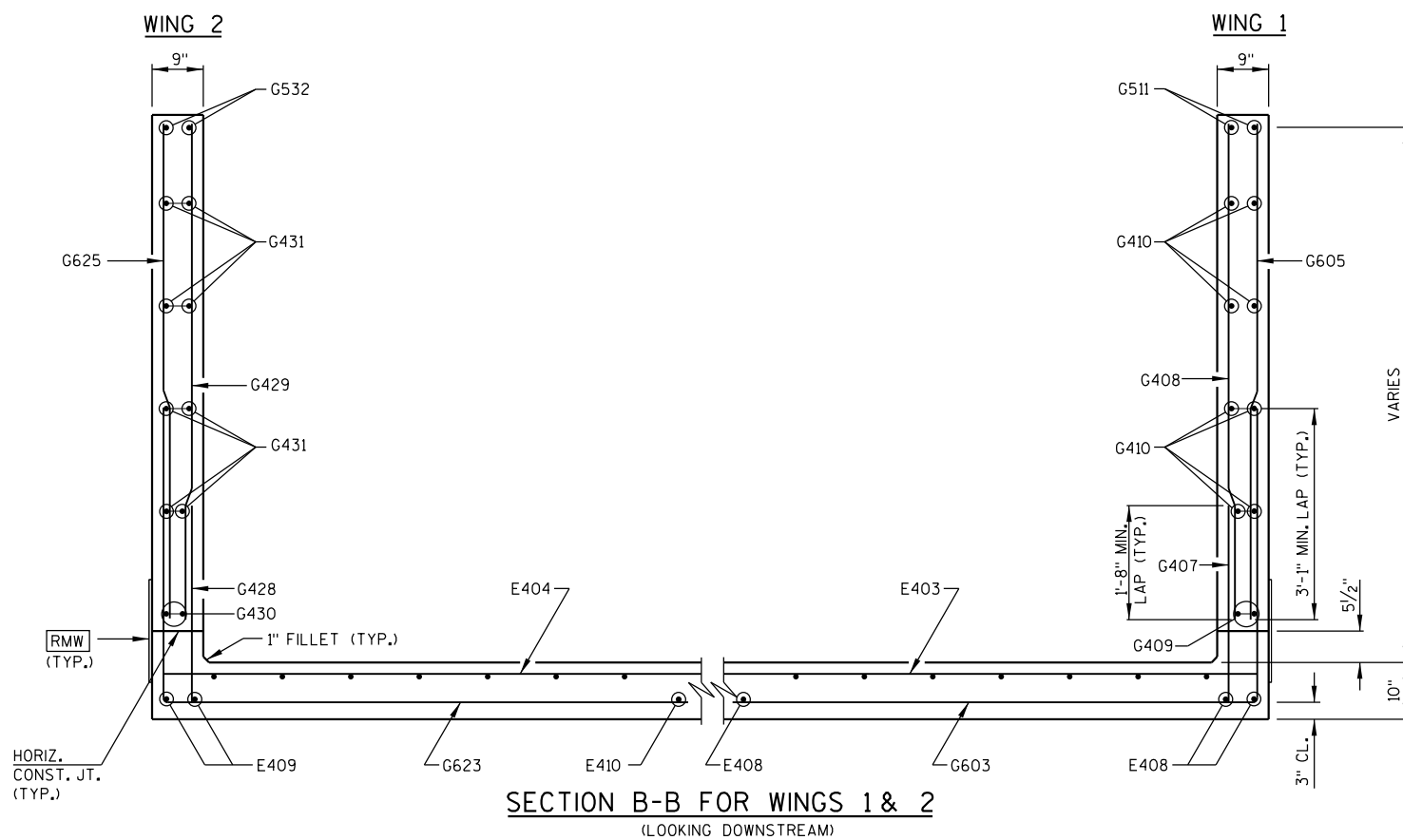
8

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LEGEND

RMW 18" MINIMUM WIDTH RUBBERIZED MEMBRANE WATERPROOFING ALONG HORIZONTAL CONSTRUCTION JOINT IN WINGS.



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 PLOT DATE: 11/4/2021 PLOT TIME: 5:22:55 PM BATCH PRINT SHEET 11 OF 15

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-58-119			
DRAWN BY MES		PLANS CK'D. CAB	
WINGS 1 & 2 SECTIONS			SHEET 11 OF 15

PRINTER DRIVER: G:\MP\CLIENT\AMER-USA-WI-WISDOT\dev\WisDOT\Bridg\VerA\Plot\dr\AE.PDF..11 x 17.plt
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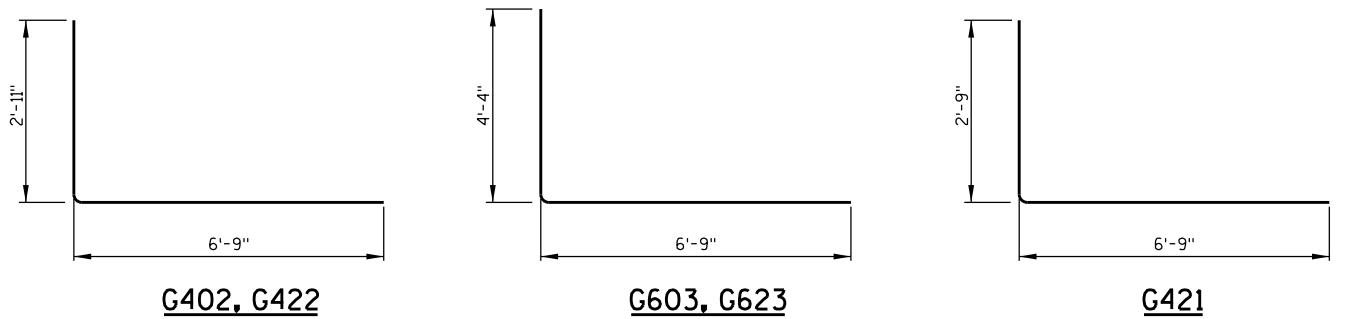
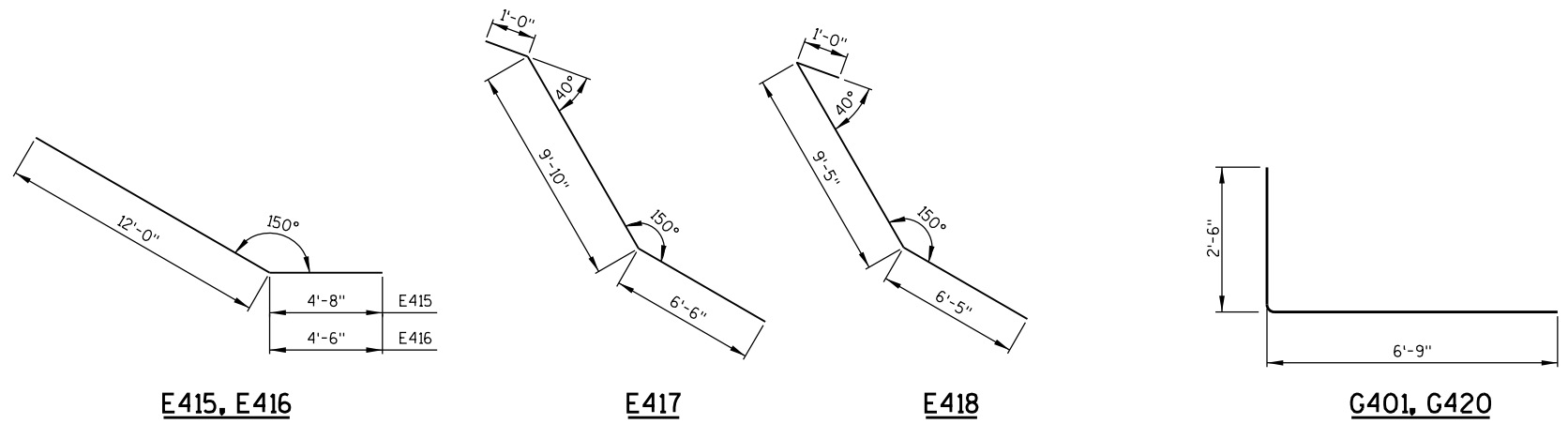
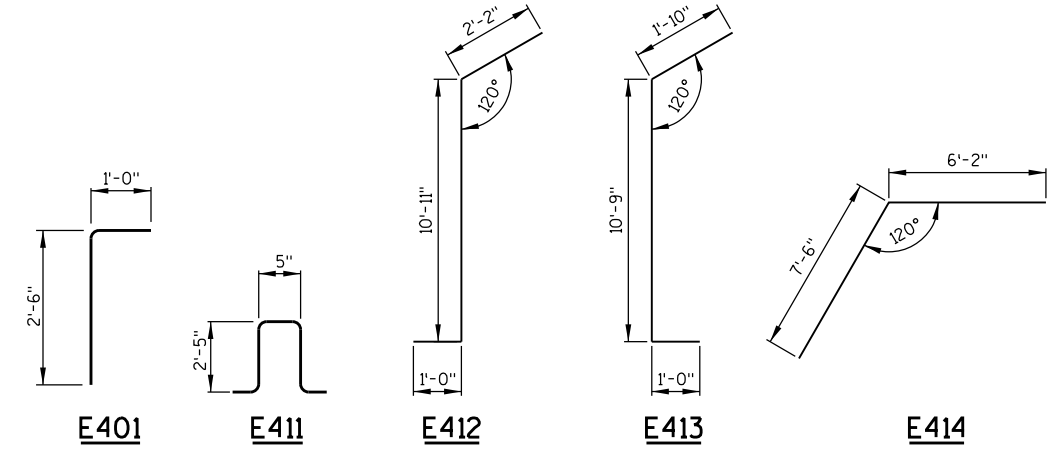
BILL OF BARS

DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BAR.
 Δ LENGTH SHOWN FOR BAR IS AN AVG. LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

MARK	NO. REQ'D	LENGTH	BENT	BAR SERIES	LOCATION	
UNCOATED BARS						TOTAL WEIGHT = 1,660 LBS
E401	47	3 - 5	X		CUTOFF WALL	VERT.
E402	8	28 - 3			CUTOFF WALL	TRANS.
E403	15	37 - 10			APRON	TRANS.
E404	14	10 - 5		Δ	APRON	TRANS.
E405	7	8 - 11		Δ	APRON	LONGIT.
E406	33	16 - 11			APRON	LONGIT.
E407	7	8 - 7		Δ	APRON	LONGIT.
E408	3	14 - 5			APRON - WING 1	LONGIT.
E409	2	22 - 0			APRON - WING 2	LONGIT.
E410	1	14 - 10			APRON - WING 2	LONGIT.
E411	56	6 - 3	X		WEIR	VERT.
E412	2	14 - 0	X		WEIR	LONGIT.
E413	2	13 - 5	X		WEIR	LONGIT.
E414	4	13 - 8	X		WEIR	LONGIT.
E415	2	16 - 8	X		WEIR	LONGIT.
E416	2	16 - 6	X		WEIR	LONGIT.
E417	2	17 - 3	X		WEIR	LONGIT.
E418	2	16 - 9	X		WEIR	LONGIT.
COATED BARS						TOTAL WEIGHT = 1,140 LBS
G401	1	9 - 2	X		WING 1 - APRON & OUTSIDE FACE	VERT.
G402	6	9 - 7	X		WING 1 - APRON & OUTSIDE FACE	VERT.
G603	10	10 - 11	X		WING 1 - APRON & OUTSIDE FACE	VERT.
G404	5	3 - 0		Δ	WING 1 - OUTSIDE FACE	VERT.
G605	10	5 - 8		Δ	WING 1 - OUTSIDE FACE	VERT.
G406	1	2 - 6			WING 1 - INSIDE FACE	VERT.
G407	10	2 - 11			WING 1 - INSIDE FACE	VERT.
G408	10	4 - 7		Δ	WING 1 - INSIDE FACE	VERT.
G409	2	14 - 4			WING 1 - BOTH FACES	HORIZ
G410	8	8 - 4		Δ	WING 1 - BOTH FACES	HORIZ
G511	2	15 - 5			WING 1 - BOTH FACES	HORIZ
G420	1	9 - 2	X		WING 2 - APRON & OUTSIDE FACE	VERT.
G421	1	9 - 5	X		WING 2 - APRON & OUTSIDE FACE	VERT.
G422	9	9 - 7	X		WING 2 - APRON & OUTSIDE FACE	VERT.
G623	15	10 - 11	X		WING 2 - APRON & OUTSIDE FACE	VERT.
G424	9	2 - 11		Δ	WING 2 - OUTSIDE FACE	VERT.
G625	15	5 - 9		Δ	WING 2 - OUTSIDE FACE	VERT.
G426	1	2 - 6			WING 2 - INSIDE FACE	VERT.
G427	1	2 - 10			WING 2 - INSIDE FACE	VERT.
G428	14	2 - 11			WING 2 - INSIDE FACE	VERT.
G429	14	4 - 8		Δ	WING 2 - INSIDE FACE	VERT.
G430	2	22 - 0			WING 2 - BOTH FACES	HORIZ
G431	8	12 - 7		Δ	WING 2 - BOTH FACES	HORIZ
G532	2	22 - 8			WING 2 - BOTH FACES	HORIZ

BAR SERIES

MARK	NO. REQ'D	LENGTH
E404	1 SET OF 14	2'-8" TO 18'-2"
E405	1 SET OF 7	2'-0" TO 15'-10"
E407	1 SET OF 7	2'-0" TO 15'-1"
G404	1 SET OF 5	2'-2" TO 3'-10"
G605	1 SET OF 10	4'-2" TO 7'-3"
G408	1 SET OF 10	1'-11" TO 7'-3"
G410	2 SETS OF 4	3'-0" TO 13'-8"
G424	1 SET OF 9	1'-10" TO 4'-0"
G625	1 SET OF 15	4'-3" TO 7'-3"
G429	1 SET OF 14	2'-1" TO 7'-3"
G431	2 SETS OF 4	4'-5" TO 20'-9"

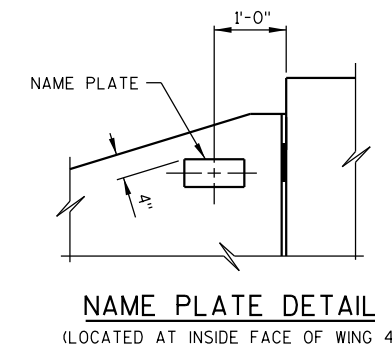
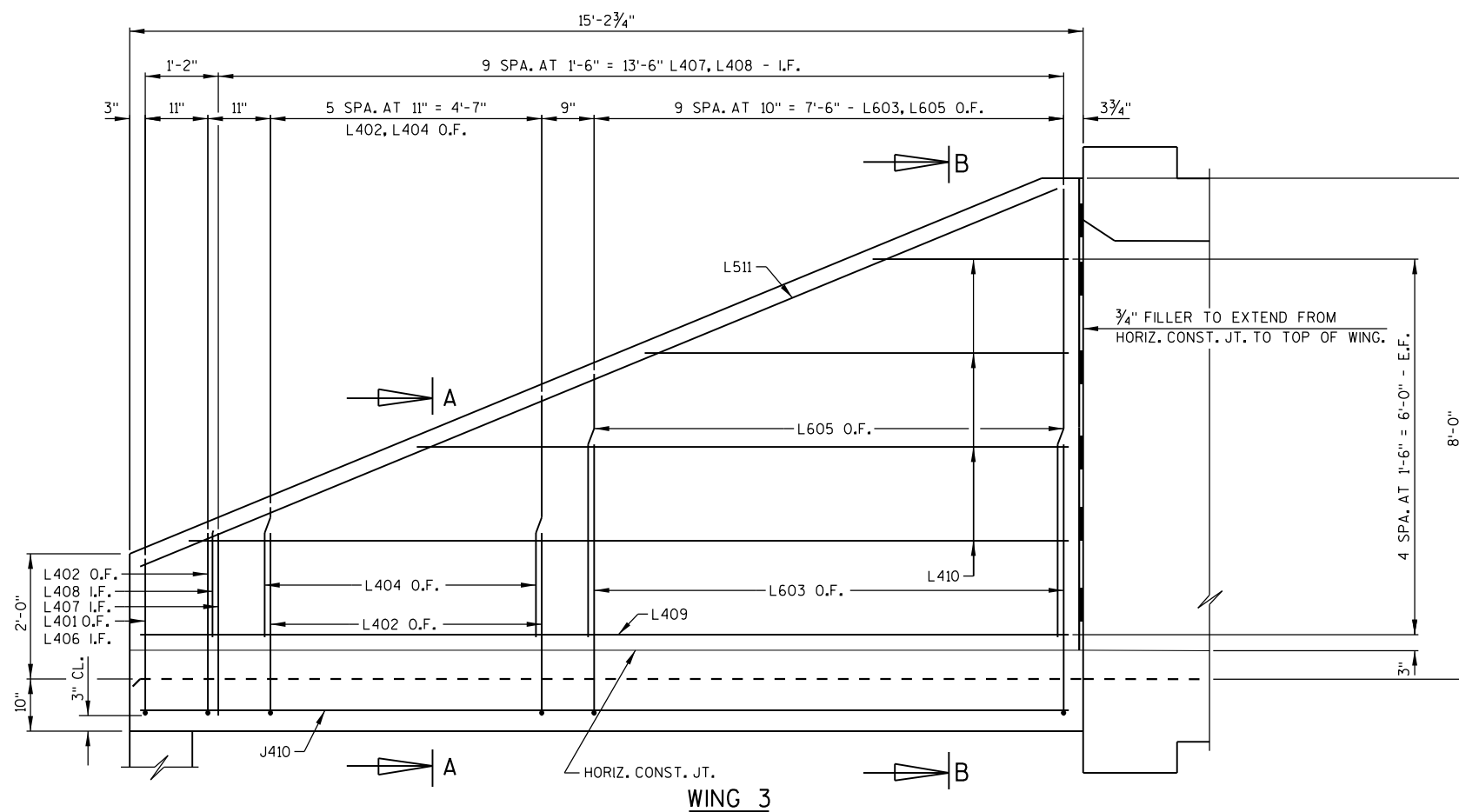


STATE PROJECT NUMBER
6580-10-71

8

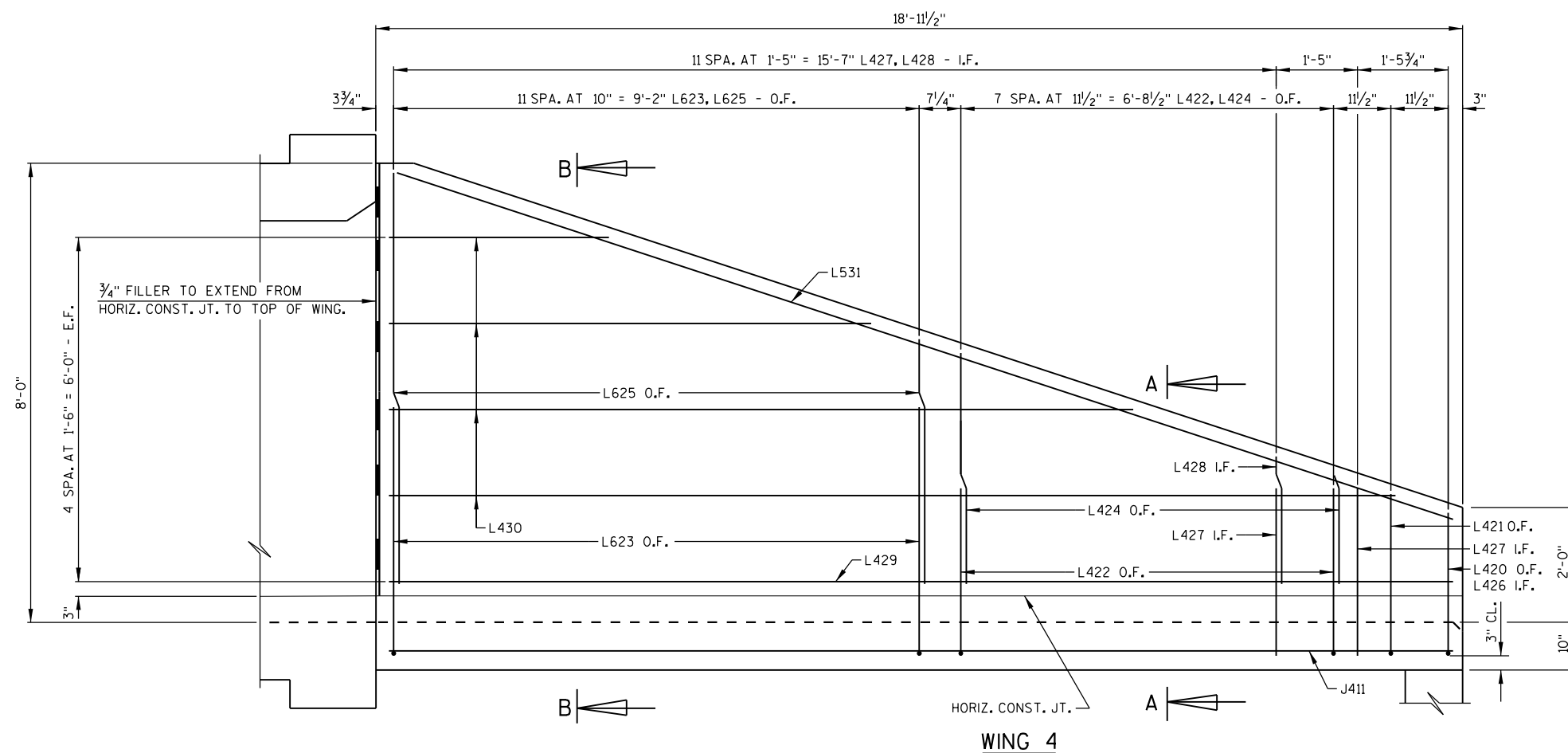
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NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-58-119			
DRAWN BY MES		PLANS CK'D. CAB	
INLET APRON BILL OF BARS			SHEET 12 OF 15



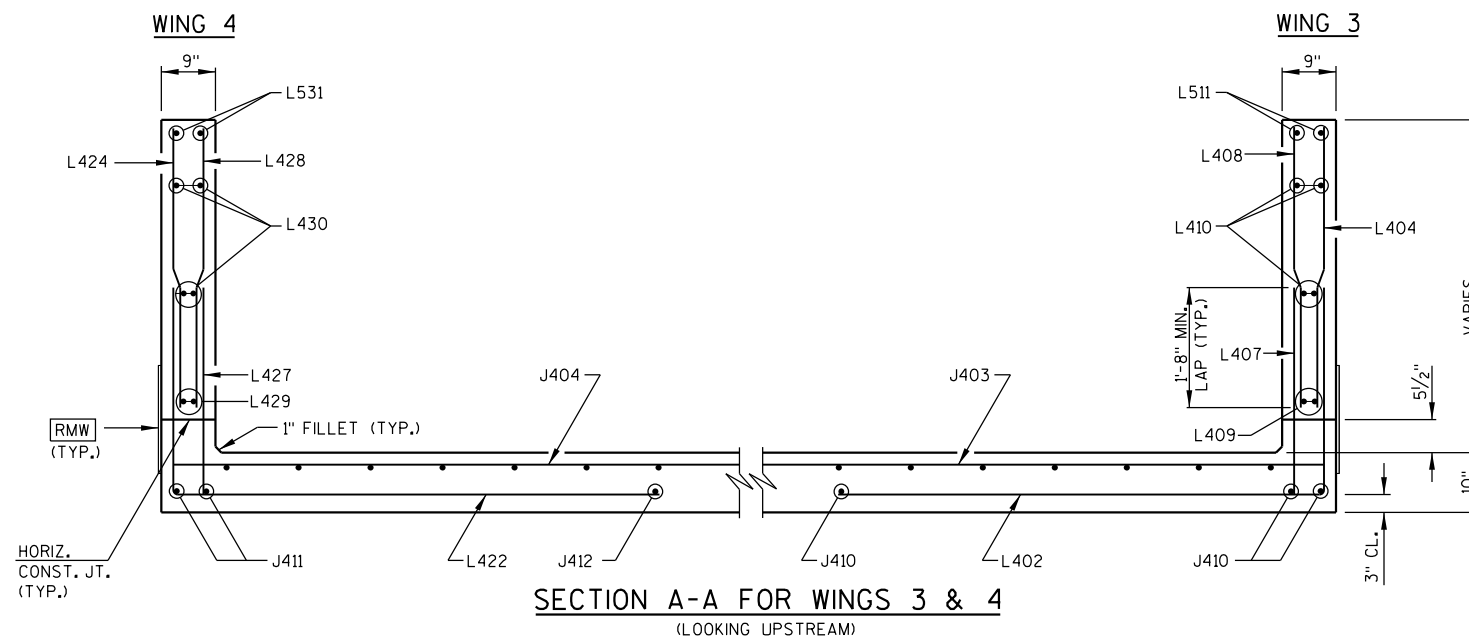
NOTES

- FOR SECTIONS A-A & B-B, SEE SHEET 14.
- FOR SECTION THRU OUTLET CUT OFF WALL, SEE SHEET 7.
- I.F. = INSIDE FACE
- O.F. = OUTSIDE FACE
- E.F. = EACH FACE



NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-58-119			
DRAWN BY MES		PLANS CK'D. CAB	
WINGS 3 & 4 ELEVATIONS			SHEET 13 OF 15

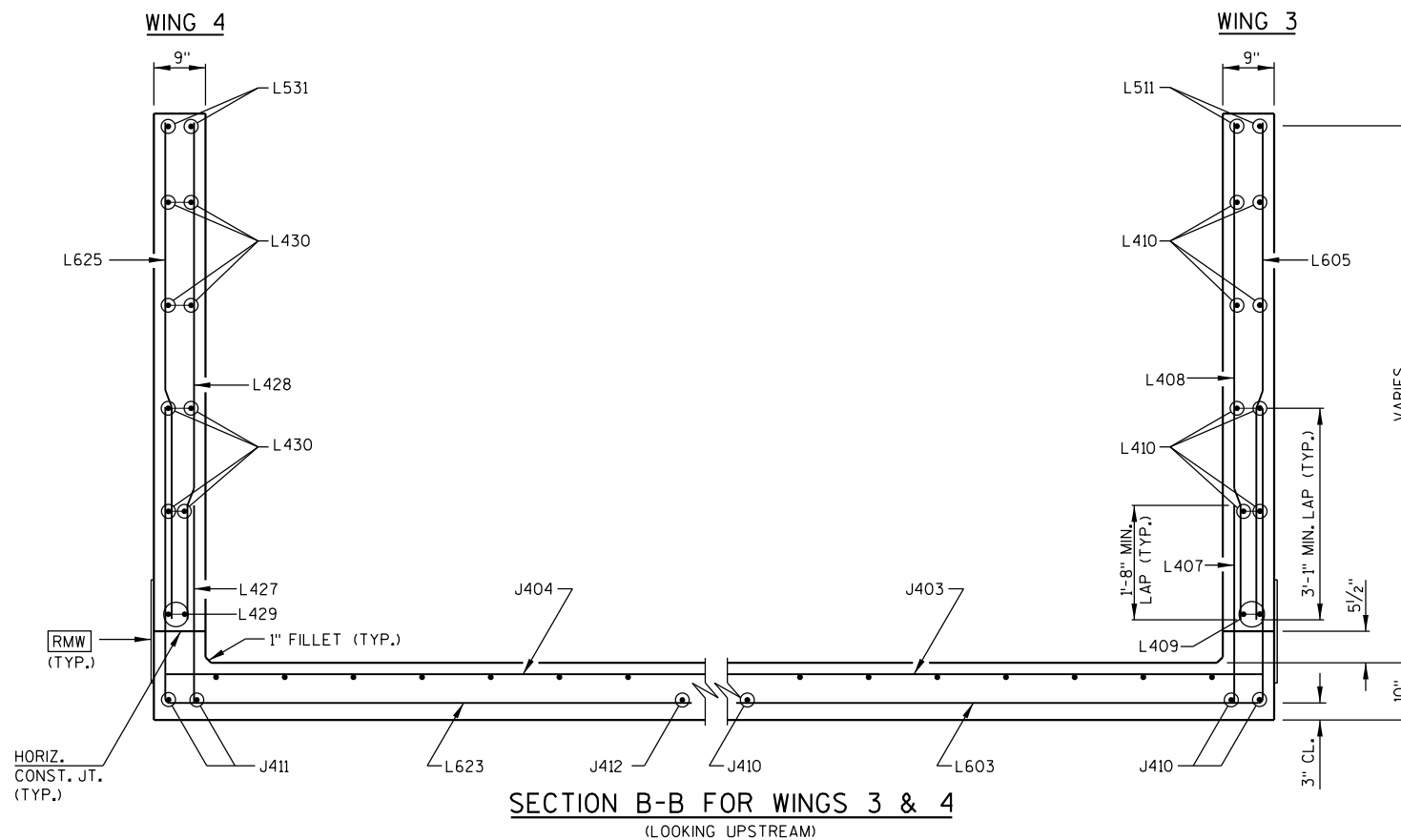
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 BATCH PRINT SHEET 13 OF 15
 PLOT DATE: 11/4/2021
 PLOT TIME: 5:22:58 PM



SECTION A-A FOR WINGS 3 & 4
(LOOKING UPSTREAM)

LEGEND

RMW 18" MINIMUM WIDTH RUBBERIZED MEMBRANE WATERPROOFING ALONG HORIZONTAL CONSTRUCTION JOINT IN WINGS.



SECTION B-B FOR WINGS 3 & 4
(LOOKING UPSTREAM)

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 PLOT DATE: 11/4/2021
 PLOT TIME: 5:22:59 PM

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-58-119			
DRAWN BY MES		PLANS CK'D. CAB	
WINGS 3 & 4 SECTIONS			SHEET 14 OF 15

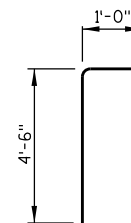
BILL OF BARS

DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BAR.
 Δ LENGTH SHOWN FOR BAR IS AN AVG. LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

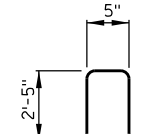
MARK	NO. REQ'D	LENGTH	BENT	BAR SERIES	LOCATION	
UNCOATED BARS						TOTAL WEIGHT = 1,490 LBS
J401	40	5 - 5	X		CUTOFF WALL	VERT.
J402	12	23 - 10			CUTOFF WALL	TRANS.
J403	15	37 - 9			APRON	TRANS.
J404	14	5 - 9		Δ	APRON	TRANS.
J405	4	8 - 3		Δ	APRON	LONGIT.
J406	33	16 - 11			APRON	LONGIT.
J407	1	12 - 8			APRON	LONGIT.
J408	1	7 - 7			APRON	LONGIT.
J409	1	2 - 6			APRON	LONGIT.
J410	3	14 - 10			APRON - WING 3	LONGIT.
J411	2	18 - 6			APRON - WING 4	LONGIT.
J412	1	13 - 5			APRON - WING 4	LONGIT.
J413	36	6 - 3	X		WEIR	VERT.
J414	8	18 - 3			WEIR	LONGIT.
COATED BARS						TOTAL WEIGHT = 1,030 LBS
L401	1	9 - 2	X		WING 3 - APRON & OUTSIDE FACE	VERT.
L402	7	9 - 7	X		WING 3 - APRON & OUTSIDE FACE	VERT.
L603	10	10 - 11	X		WING 3 - APRON & OUTSIDE FACE	VERT.
L404	6	3 - 0		Δ	WING 3 - OUTSIDE FACE	VERT.
L605	10	5 - 9		Δ	WING 3 - OUTSIDE FACE	VERT.
L406	1	2 - 6			WING 3 - INSIDE FACE	VERT.
L407	10	2 - 11			WING 3 - INSIDE FACE	VERT.
L408	10	4 - 6		Δ	WING 3 - INSIDE FACE	VERT.
L409	2	14 - 10			WING 3 - BOTH FACES	HORIZ
L410	8	8 - 6		Δ	WING 3 - BOTH FACES	HORIZ
L511	2	15 - 9			WING 3 - BOTH FACES	HORIZ
L420	1	9 - 1	X		WING 4 - APRON & OUTSIDE FACE	VERT.
L421	1	9 - 5	X		WING 4 - APRON & OUTSIDE FACE	VERT.
L422	8	9 - 7	X		WING 4 - APRON & OUTSIDE FACE	VERT.
L623	12	10 - 11	X		WING 4 - APRON & OUTSIDE FACE	VERT.
L424	8	3 - 0		Δ	WING 4 - OUTSIDE FACE	VERT.
L625	12	5 - 9		Δ	WING 4 - OUTSIDE FACE	VERT.
L426	1	2 - 5			WING 4 - INSIDE FACE	VERT.
L427	13	2 - 11			WING 4 - INSIDE FACE	VERT.
L428	12	4 - 9		Δ	WING 4 - INSIDE FACE	VERT.
L429	2	18 - 6			WING 4 - BOTH FACES	HORIZ
L430	8	10 - 8		Δ	WING 4 - BOTH FACES	HORIZ
L531	2	19 - 4			WING 4 - BOTH FACES	HORIZ

BAR SERIES

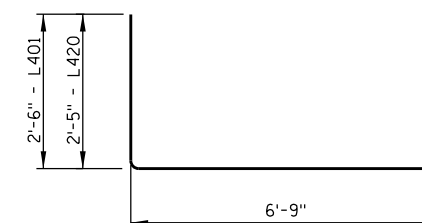
MARK	NO. REQ'D	LENGTH
J404	1 SET OF 14	2'-0" TO 9'-6"
J405	1 SET OF 4	1'-10" TO 14'-9"
L404	1 SET OF 6	2'-1" TO 3'-11"
L605	1 SET OF 10	4'-3" TO 7'-3"
L408	1 SET OF 10	1'-10" TO 7'-3"
L410	2 SETS OF 4	3'-1" TO 14'-0"
L424	1 SET OF 8	1'-11" TO 4'-1"
L625	1 SET OF 12	4'-4" TO 7'-3"
L428	1 SET OF 12	2'-3" TO 7'-3"
L430	2 SETS OF 4	3'-10" TO 17'-6"



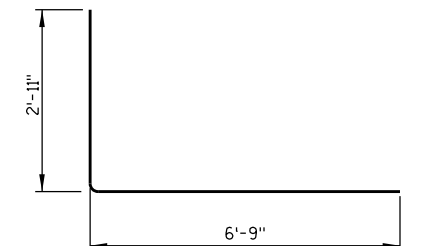
J401



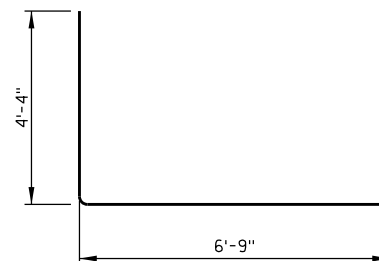
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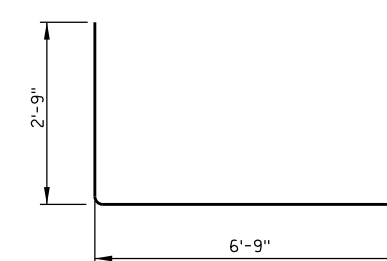
L401, L420



L402, L422



L603, L623

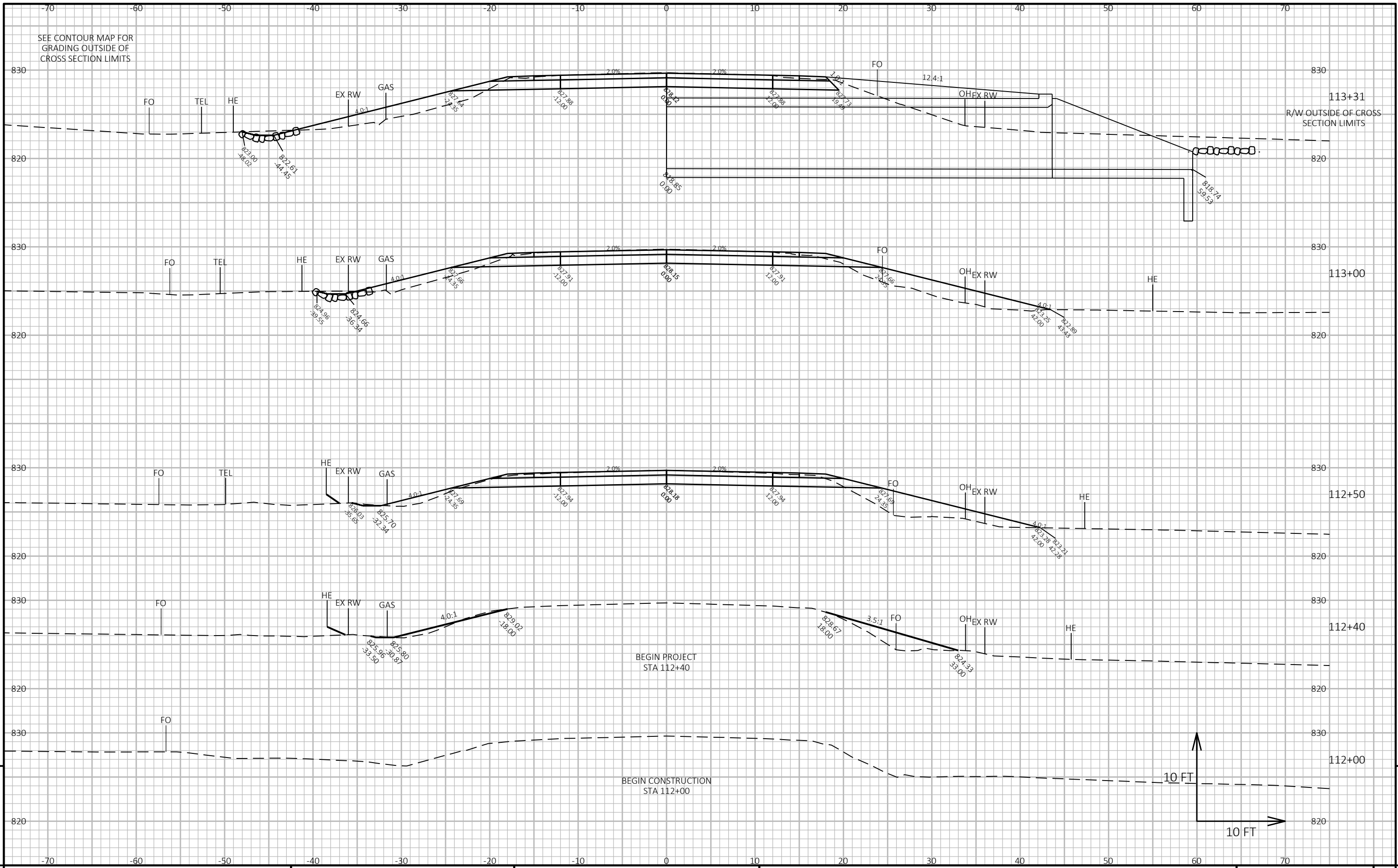


L421

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 PLOT DATE: 11/4/2021 PLOT TIME: 5:23:00 PM BATCH PRINT SHEET 15 OF 15

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-58-119			
DRAWN BY MES		PLANS CK'D. CAB	
OUTLET APRON BILL OF BARS			SHEET 15 OF 15

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.25	MASS ORDINATE
112+00	11200		0.0	0.0	0.0	0	0	0	0	0	0
112+40	11240	40	56.0	24.5	33.9	41	18	25	41	31	-8
112+50	11250	10	60.2	24.5	34.9	22	9	13	63	47	-12
113+00	11300	50	57.0	24.5	40.5	109	45	70	172	135	-36
113+31	11331	31	59.5	24.5	42.2	67	28	47	238	194	-56
113+50	11350	19	52.7	24.5	67.7	39	17	39	278	242	-82
113+78	11378	28	50.1	24.5	205.2	53	25	141	331	419	-231
113+95	11395	17	56.2	24.5	259.8	33	15	146	365	602	-396
114+00	11400	5	53.3	24.5	203.3	10	5	43	375	656	-444
114+50	11450	50	61.8	24.5	58.6	107	45	242	481	959	-686
115+00	11500	50	54.1	24.5	63.0	107	45	113	589	1099	-765
115+30	11530	30	51.7	24.5	67.9	59	27	73	647	1190	-824
115+50	11550	20	0.0	0.0	30.7	19	9	37	647	1236	-860
116+00	11600	50	0.0	0.0	0.0	0	0	28	647	1272	-895
Column totals						667	290	1017			



PROJECT NO: 6580-10-71

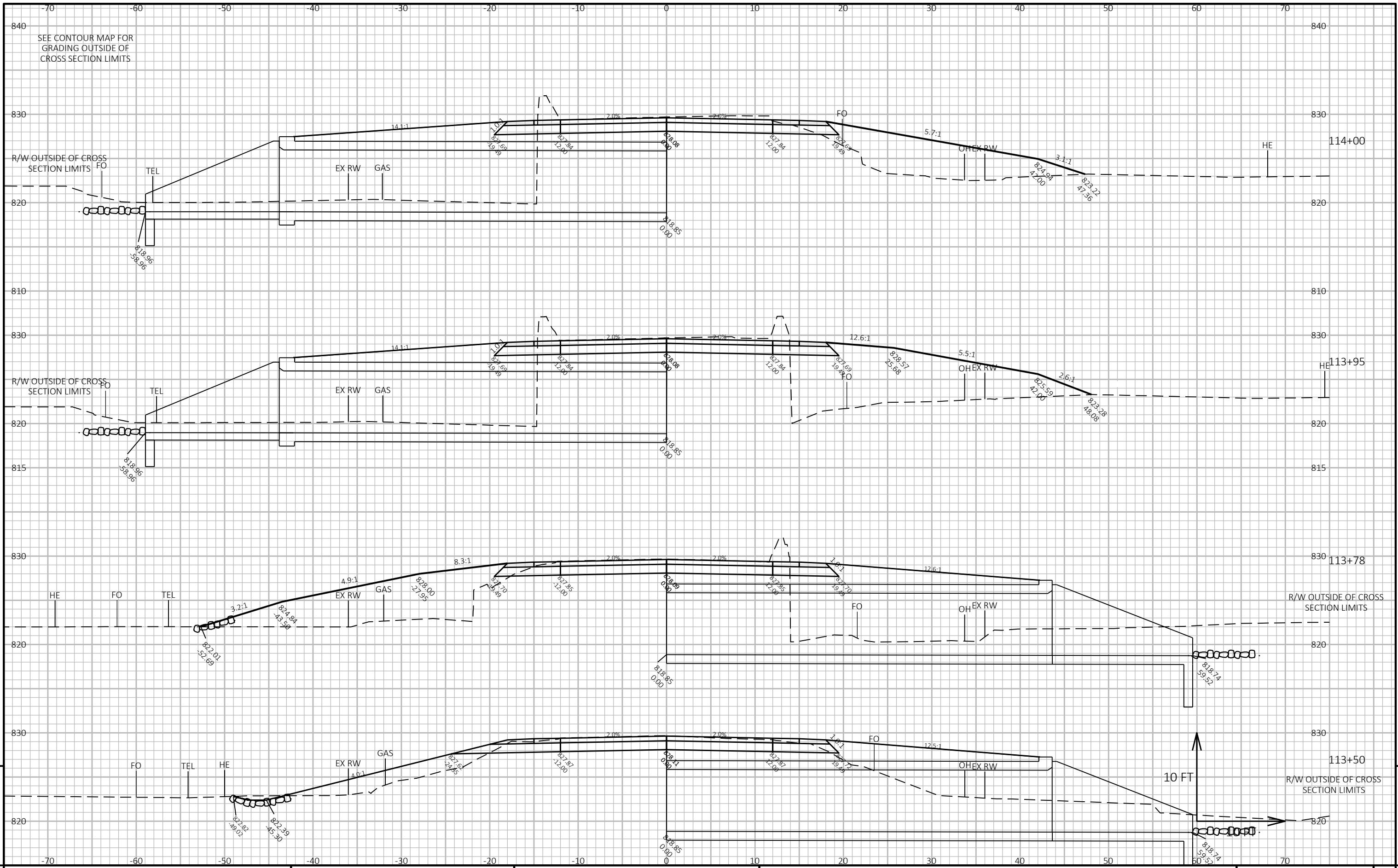
HWY: STH 156

COUNTY: SHAWANO

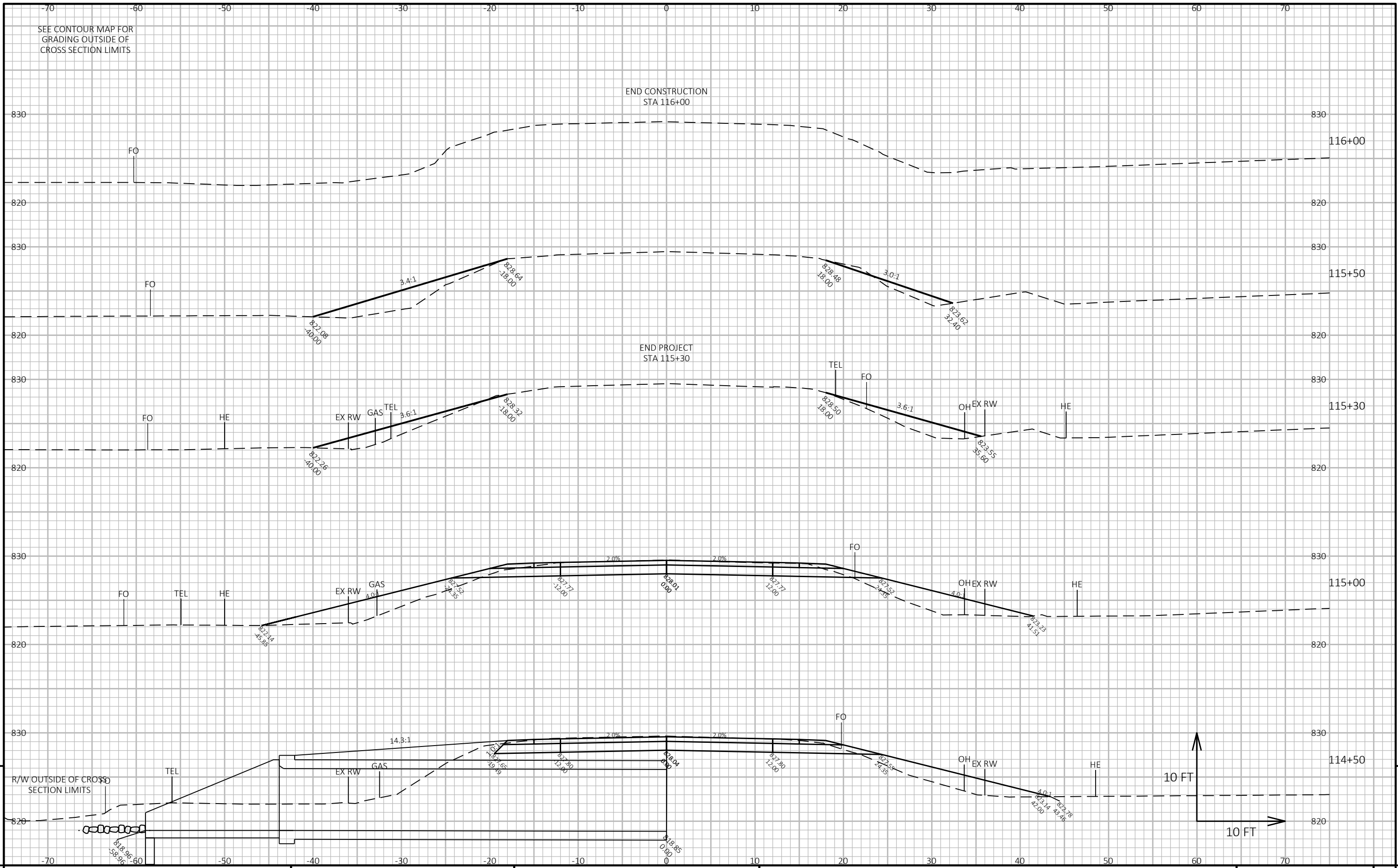
CROSS SECTIONS: MAINLINE

SHEET

E



PROJECT NO: 6580-10-71 HWY: STH 156 COUNTY: SHAWANO CROSS SECTIONS: MAINLINE SHEET 9



PROJECT NO: 6580-10-71 HWY: STH 156 COUNTY: SHAWANO CROSS SECTIONS: MAINLINE SHEET 9

Notes



Wisconsin Department of Transportation

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