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#### Jan 10, 2023

#### ORDER OF SHEETS

Section No.	1	Title
Section No.	, 2	Typical Sections and Deta
Section No.	3	Estimate of Quantities
Section No.	3	Miscellaneous Quantities
Section No.	4	Right of Way Plat

Section No. Plan and Profile Section No

Structure Plans Section No. Computer Earthwork Data Section No. Cross Sections

TOTAL SHEETS =

#### DESIGN DESIGNATION 4656-07-00

A.A.D.T.	2023	=	49	
A.A.D.T.	2043	=	54	
D.H.V.		=	7	
D.D.		=	60/40	
T.		=	10	
DECICAL CREED			20 1 1011	

#### DESIGN SPEED = 30 MPH ESALS = N/A

## CONVENTIONAL SYMBOLS

CONVENTIONAL SAMIRC	DLS		
PLAN		PROFILE	
CORPORATE LIMITS	1//////	GRADE LINE	•
PROPERTY LINE		ORIGINAL GROUND	
LOT LINE LIMITED HIGHWAY EASEMENT	L	MARSH OR ROCK PROFILE (To be noted as such) SPECIAL DITCH	RC LAI
EXISTING RIGHT OF WAY PROPOSED OR NEW R/W LINE		GRADE ELEVATION	
SLOPE INTERCEPT		CULVERT (Profile View)	0
REFERENCE LINE	300/EB1	UTILITIES	
EXISTING CULVERT PROPOSED CULVERT (Box or Pipe)		ELECTRIC FIBER OPTIC GAS	
COMBUSTIBLE FLUIDS	-caution-	SANITARY SEWER STORM SEWER	
MARSH AREA		TELEPHONE WATER UTILITY PEDESTAL	-
	~~~~~~~~~~	POWER POLE	

# STATE OF WISCONSIN **DEPARTMENT OF TRANSPORTATION**

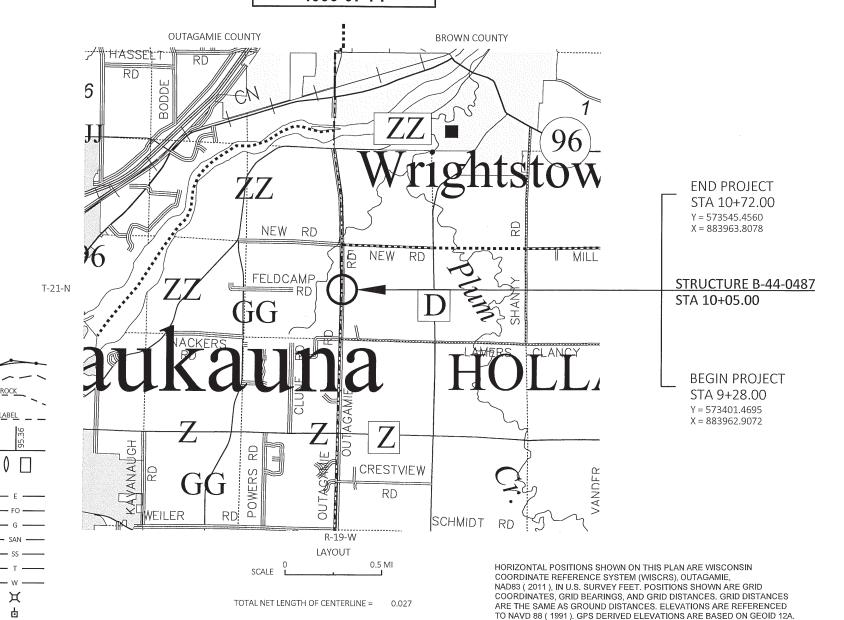
PLAN OF PROPOSED IMPROVEMENT

# T BUCHANAN, COUNTY LINE ROAD

**BRANCH OF PLUM CREEK BRIDGE** 

# LOC STR **OUTAGAMIE**

STATE PROJECT NUMBER 4656-07-71

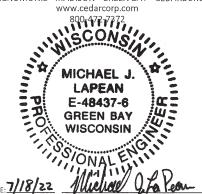


FEDERAL PROJECT STATE PROJECT CONTRACT PROJECT WISC 2023158



# ORIGINAL PLANS PREPARED BY

MENOMONIE - MADISON - GREEN BAY - CEDARBURG



#### STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

REPARED BY

CEDAR CORPORATION

BRIAN EDWARDS, P.E.

PPROVED FOR THE DEPARTMENT

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WOODED OR SHRUB AREA

TELEPHONE POLE

X

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#### **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

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

D.O.T. BRIDGE BENCHMARK MONUMENT TO BE FURNISHED BY THE STATE AND PLACED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER.

#### **DNR CONTACT**

DNR NORTHEAST REGIONAL OFFICE 2984 SHAWANO AVENUE GREEN BAY, WI 54313

ATTN: MATTHEW D. SCHAEVE (920) 366-1544

EMAIL: matthew.schaeve@wisconsin.gov

#### MUNICIPALITY

TOWN OF BUCHANAN N178 COUNTY ROAD N APPLETON, WI 54915

ATTN: MAGGIE MAHONEY, TOWN ADMINISTRATOR

PH: (920) 734-8599

EMAIL: MaggieM@townofbuchanan.org

www.DiggersHotline.com

\*\*DENOTES UTILITIES THAT ARE NOT DIGGERS HOTLINE MEMBERS.

#### **DESIGN CONSULTANT CONTACT**

CEDAR CORPORATION 1695 BELLEVUE STREET GREEN BAY, WI 54311

ATTN: MICHAEL J. LAPEAN, P.E. (920) 785-7314

EMAIL: mike.lapean@cedarcorp.com

#### WISDOT PROJECT MANAGER

WISDOT NE REGION 944 VANDERPERREN WAY GREEN BAY, WI 54304 ATTN: JODI JAROSINSKI, P.E. (920) 360-2351

EMAIL: jodi.jarosinski@dot.wi.gov

## STANDARD ABBREVIATIONS

ABUTMENT

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

OFF

OFFSET

#### **RUNOFF COEFFICIENT TABLE**

					H	IYDROLOGIC	SOIL GROU	JP				
		А			В			С			D	
	SLOPE	RANGE (PE	RCENT)	SLOPE	RANGE (PE	RCENT)	SLOPE	RANGE (PE	RCENT)	SLOPE	RANGE (P	ERCENT)
LAND USE:	0 - 2	2 - 6	6 & OVER	0 - 2	2 - 6	6 & OVER	0 - 2	2 - 6	6 & OVER	0 - 2	2 - 6	6 & OVER
ROW CROPS	.08	.16	.22	.12	.20	.27	.15	.24	.33	.19	.28	.38
	.22	.30	.38	.26	.34	.44	.30	.37	.50	.34	.41	.56
MEDIAN STRIP-TURF	.19	.20	.24	.19	.22	.26	.20	.23	.30	.20	.25	.30
	.24	.26	.30	.25	.28	.33	.26	.30	.37	.27	.32	.40
SIDE SLOPE TURF			.25			.27			.28			.30
			.32			.34			.36			.38
PAYMENT:												
ASPHALT:						.70 -	.95					
CONCRETE:						.80	.95					
BRICK:						.70 -	.80					
DRIVES, WALKS:						.75 -	.85					
ROOFS:						.75 -	.95					
GRAVEL ROADS, SHOULDERS:						.40 -	.60					

TOTAL PROJECT AREA = 0.22 ACRES

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.14 ACRES

Ε PROJECT NO: 4656-07-71 HWY: COUNTY LINE ROAD COUNTY: OUTAGAMIE **GENERAL NOTES** SHEET FILE NAME : ##########

HWY: COUNTY LINE ROAD

TYPICAL SECTIONS

STA 10+24.31 TO 10+72.00

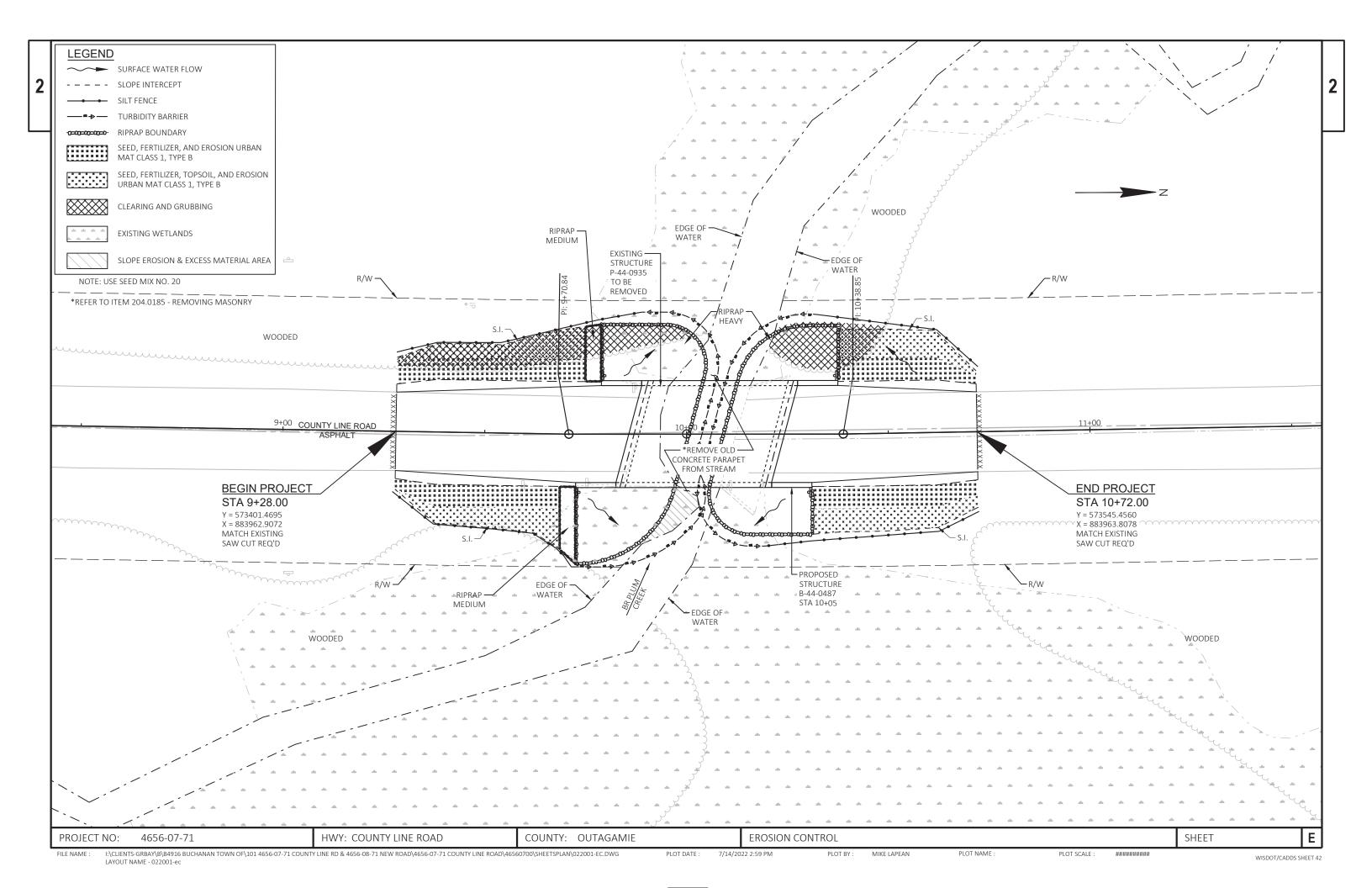
COUNTY: OUTAGAMIE

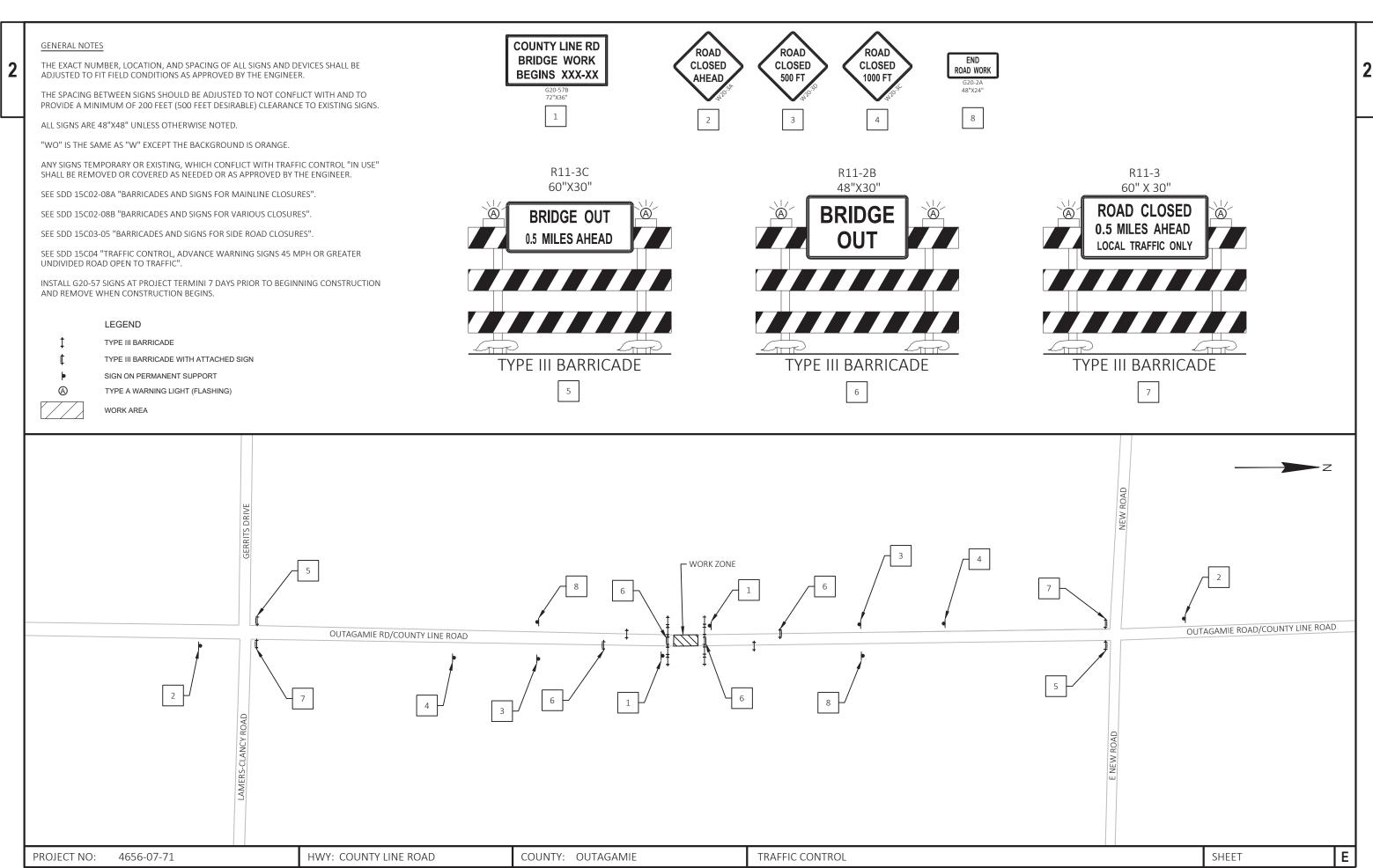
SHEET

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4656-07-71

PROJECT NO:





FILE NAME :

4656-07-71	
1000 01 11	

					4656-07-71	
Line	Item	Item Description	Unit	Total	Qty	
0002	201.0105	Clearing	STA	2.000	2.000	
0004	201.0205	Grubbing	STA	2.000	2.000	
0006	203.0250	Removing Structure Over Waterway Remove Debris (structure) 01. B-44-0487	EACH	1.000	1.000	
0012	204.0185	Removing Masonry	CY	4.000	4.000	
0014	205.0100	Excavation Common	CY	99.000	99.000	
0016	206.1001	Excavation for Structures Bridges (structure) 01. B-44-0487	EACH	1.000	1.000	
0020	208.0100	Borrow	CY	6.000	6.000	
0022	210.1500	Backfill Structure Type A	TON	200.000	200.000	
0024	213.0100	Finishing Roadway (project) 01. 4656-07-71	EACH	1.000	1.000	
0028	305.0110	Base Aggregate Dense 3/4-Inch	TON	8.000	8.000	
0030	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	237.000	237.000	
0032	455.0605	Tack Coat	GAL	18.000	18.000	
0034	465.0105	Asphaltic Surface	TON	53.000	53.000	
0036	502.0100	Concrete Masonry Bridges	CY	142.000	142.000	
0038	502.3200	Protective Surface Treatment	SY	103.000	103.000	
0040	502.3210	Pigmented Surface Sealer	SY	58.000	58.000	
0042	505.0400	Bar Steel Reinforcement HS Structures	LB	3,060.000	3,060.000	
0044	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	18,550.000	18,550.000	
0048	516.0500	Rubberized Membrane Waterproofing	SY	16.000	16.000	
0050	550.1100	Piling Steel HP 10-Inch X 42 Lb	LF	560.000	560.000	
0052	606.0200	Riprap Medium	CY	9.000	9.000	
0054	606.0300	Riprap Heavy	CY	170.000	170.000	
0056	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	160.000	160.000	
0058	618.0100	Maintenance And Repair of Haul Roads (project) 01. 4656-07-71	EACH	1.000	1.000	
0062	619.1000	Mobilization	EACH	0.500	0.500	
0064	624.0100	Water	MGAL	4.000	4.000	
0066	625.0100	Topsoil	SY	102.000	102.000	
0068	628.1504	Silt Fence	LF	422.000	422.000	
0070	628.1520	Silt Fence Maintenance	LF	422.000	422.000	
0070	628.1905	Mobilizations Erosion Control	EACH	3.000	3.000	
0072	628.1910	Mobilizations Emergency Erosion Control	EACH	3.000	3.000	
0074	628.2008	Erosion Mat Urban Class I Type B	SY	206.000	206.000	
0078	628.6005	Turbidity Barriers	SY	190.000	190.000	
0078	629.0210	Fertilizer Type B	CWT	0.130	0.130	
0082	630.0120	Seeding Mixture No. 20	LB	4.000	4.000	
0082	630.0200	Seeding Temporary	LB	4.000	4.000	
0086 0088	630.0500 634.0612	Seed Water Posts Wood 4x6-Inch X 12-FT	MGAL EACH	5.000 4.000	5.000 4.000	
	637.2230	Signs Type II Reflective F	SF	12.000	12.000	
0090 0092	638.2102		EACH	1.000	1.000	
	638.2602	Moving Signs Type II Removing Signs Type II	EACH	10.000	10.000	
0094 0096	638.3000	<u> </u>	EACH	9.000	9.000	
		Removing Small Sign Supports Field Office Type B	EACH	0.500	0.500	
0098	642.5001	• •				
0100	643.0420	Traffic Control Barricades Type III	DAY	1,080.000	1,080.000	
0102	643.0705	Traffic Control Warning Lights Type A	DAY	1,680.000	1,680.000	
0104	643.0900	Traffic Control Signs	DAY	960.000	960.000	
0106	643.1000	Traffic Control Signs Fixed Message	SF	36.000	36.000	
0108	643.5000	Traffic Control	EACH	0.500	0.500	
0110	645.0111	Geotextile Type DF Schedule A	SY	54.000	54.000	

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## Estimate Of Quantities By Plan Sets

Page 2

					4656-07-71
Line	Item	Item Description	Unit	Total	Qty
0112	645.0120	Geotextile Type HR	SY	324.000	324.000
0114	650.4500	Construction Staking Subgrade	LF	106.000	106.000
0116	650.5000	Construction Staking Base	LF	106.000	106.000
0118	650.6501	Construction Staking Structure Layout (structure) 01. B-44-0487	EACH	1.000	1.000
0122	650.9911	Construction Staking Supplemental Control (project) 01. 4656-07-71	EACH	1.000	1.000
0126	650.9920	Construction Staking Slope Stakes	LF	92.000	92.000
0128	690.0150	Sawing Asphalt	LF	39.000	39.000
0130	715.0502	Incentive Strength Concrete Structures	DOL	850.000	850.000

**CLEARING & GRUBBING REMOVING MASONRY** 

CATEGORY	STATION T	TO STATION	I LOCATION	201.0105 CLEARING STA	201.0205 GRUBBING STA							204.0185 REMOVING MASONRY	
0010	0.20	40.02	1.7	4	4			CATEGORY	STATION L	LT/RT	LOCATION	CY	REMARKS
0010	9+28	- 10+02	LT	1	1								
0010	10+20	- 10+50	LT	1	1			0010	9+97	LT BRA	NCH OF PLUM CREEK	2	OLD CONCRETE PARAPET IN STREAM
								0010	10+06	RT BRA	NCH OF PLUM CREEK	2	OLD CONCRETE PARAPET IN STREAM
			TOTAL 0010	2	2						TOTAL 0010	4	•
					СО	205.0100 DMMON EXCAVATION			EXP	ANDED FILL			

				5.0100 EXCAVATION (1)	SALVAGED/UNUSABLE	AVAILABLE		EXPANDED FILL (13)			208.0100	
	FROM/TO		CUT	EBS EXCAVATION	PAVEMENT MATERIAL	MATERIAL	UNEXPANDED	FACTOR	MASS ORDINATE +/-	WASTE	BORROW	
DIVISION	STATION	LOCATION	(2)	(3)	(4)	(5)	FILL	1.25	(14)	(15)	(16)	COMMENT
DIVISION 1												
COUNTY LINE ROAD	09+28/09+78.93	SOUTH APPROACH	56	0	16	40	37	46	-6	0	6	
DIVISION 1 SUBTOTAL			56	0	16	40	37	46	-6	0	6	
DIVISION 2												
COUNTY LINE ROAD	10+31.08/10+72	NORTH APPROACH	43	0	13	30	22	28	3	3	0	
DIVISION 2 SUBTOTAL			43	0	13	30	22	28	3	3	0	
GRAND TOTAL			99	0	29	70	59	74	-4	3	6	
	TOTAL CO	OMMON EXC		99								

- (1) COMMON EXCAVATION IS THE SUM OF THE CUT AND EBS EXCAVATION COLUMNS, AND EXCLUDES THE AREA FROM WING TIPS TO THE BACK OF ABUTMENTS. THIS AREA IS CONSIDERED PART OF EXCAVATION FOR STRUCTURES. ITEM NUMBER 205.0100
- (2) SALVAGED/UNSUABLE PAVEMENT MATERIAL IS INCLUDED IN CUT.
- (3) EBS EXCAVATION TO BE BACKFILLED WITH BASE AGGREGATE DENSE 1 1/4-INCH.
- (4) SALVAGED/UNUSABLE PAVEMENT MATERIAL
- 5) AVAILABLE MATERIAL = CUT SALVAGED/UNUSUABLE PAVEMENT MATERIAL
- (13) EXPANDED FILL FACTOR = 1.25

EXPANDED FILL = UNEXPANDED FILL \* FILL FACTOR

- (14) THE MASS ORDINATE + OR QTY CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.
- (15) FACTORS USED TO COMPUTE ANTICIPATED WASTE AND THE COMPUTED WASTE VOLUME IDENTIFIED ARE FOR GENERAL INFORMATION ONLY.
- (16) CONTRACTOR MAY OBTAIN SUITABLE BORROW MATERIAL FROM OTHER DIVISIONS OR EXCAVATED MATERIAL UNDER BID ITEM EXCAVATION FOR STRUCTURES IN ACCORDANCE WITH STANDARD SPEC 208.2.2(2), AND MEASURED ACCORDING TO 208.4.1.

**BASE AGGREGATES** <u>HMA</u>

			305.0110	305.0120 BASE	624.0100
			BASE	AGGREGATE	
			AGGREGATE DENSE 3/4-INCH	DENSE 1 1/4- INCH	WATER
CATEGORY	STATION TO STATION	LOCATION	TON	TON	MGAL
0010	9+28.00 - 9+85.71	COUNTY LINE ROAD	5	131	2
0010	10+24.30 - 10+72.00	COUNTY LINE ROAD	3	106	2
		TOTAL 0010	8	237	4

PROJECT NO: 4656-07-71 HWY: COUNTY LINE ROAD COUNTY: OUTAGAMIE MISCELLANEOUS QUANTITIES SHEET

#### CATEGORY 30

					606.0200 G RIPRAP MEDIUM	645.0120 EOTEXTILE TYPE HR				618.0100.01 MAINTENANCE AND REPAIR OF HAUL ROADS
CATEGORY	STATION TO ST	ATION	LT/RT	LOCATION	CY	SY	REMARKS			(PROJECT) (01. 4656-07-71)
0010	9+68.69 - 9+	72.49	RT	COUNTY LINE ROAD	5	0		CATEGORY	LOCATION	EACH
0010		-72.49 -78.93	LT	COUNTY LINE ROAD	4	6				
				TOTAL 0010	9	14		0030	PROJECT	1
									TOTAL 0030	1

#### **RESTORATION**

						625.0100	628.2008	629.0210	630.0120	630.0200	630.0500
						TOPSOIL	EROSION MAT URBAN CLASS I TYPE B	FERTILIZER TYPE B	SEEDING MIXTURE NO. 20	SEEDING TEMPORARY	SEED WATER
CATEGORY	STATION	TO	STATION	OFFSET	LOCATION	SY	SY	CWT	LB	LB	MGAL
0010	9+28.00	_	9+74.93	LT	COUNTY LINE ROAD	23	51	0.03	1	1	1
0010	9+28.00	-	9+68.69	RT	COUNTY LINE ROAD	22	45	0.03	1	1	1
0010	10+31.08	-	10+72.00	RT	COUNTY LINE ROAD	25	48	0.03	1	1	1
0010	10+37.51	-	10+72.00	LT	COUNTY LINE ROAD	23	43	0.03	1	1	1
0010					UNDISTRIBUTED	9	19	0.01	0	0	1
					TOTAL 0010	102	206	0.13	4	4	5

#### **EROSION CONTROL**

					628.1504	628.1520	628.1905  MOBILIZATIONS	628.1910 MOBILIZATIONS EMERGENCY	628.6005	
						SILT FENCE	EROSION	EROSION	TURBIDITY	
					SILT FENCE	MAINTENANCE	CONTROL	CONTROL	BARRIERS	
CATEGORY	STATION	TO	STATION	LOCATION	LF	LF	EACH	EACH	SY	REMARKS
0010	9+28	-	10+05	COUNTY LINE ROAD	113	113	1	1	104	
0010	10+05	-	10+72	COUNTY LINE ROAD	98	98	1	1	86	
0010				UNDISTRIBUTED	211	211	1	1	-	
				TOTAL 0010	422	422	3	3	190	•

SHEET Ε HWY: COUNTY LINE ROAD COUNTY: OUTAGAMIE MISCELLANEOUS QUANTITIES PROJECT NO: 4656-07-71

<u>SIGNING</u>

CATEGORY	STATION I	LOCATION	SIGN NUMBER	SIGN CODE	SIZE	634.0612 POSTS WOOD 4X6-INCH X 12- FT EACH	637.2230 SIGNS TYPE II REFLECTIVE F SF	638.2102 MOVING SIGNS TYPE II EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	remarks
	317.11.011		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0.0	0,22	2.0		2.01.	2 (01)	27 (31)	TEND HITC
0010	9+60	RT	1R	R12-1	-	-	-	-	1	1	WEIGHT LIMIT 15 TONS*
0010	9+72	RT	1	W5-52R	12X36	1	3.0	-	-	-	BRIDGE HASH MARKS
0010	9+76	RT	2R	W5-52R	-	-	-	-	1	1	BRIDGE HASH MARKS*
0010	9+79	LT	2	W5-52L	12X36	1	3.0	-	-	-	BRIDGE HASH MARKS
0010	9+87	LT	3R	W5-52L	-	-	-	-	1	1	BRIDGE HASH MARKS*
0010	10+10	RT	4R	W5-52L	-	-	-	-	1	1	BRIDGE HASH MARKS*
0010	10+16	LT	5R	W5-52R	-	-	-	-	1	1	BRIDGE HASH MARKS*
0010	10+31	RT	3	W5-52L	12X36	1	3.0	-	-	-	BRIDGE HASH MARKS
0010	10+38	LT	4	W5-52R	12X36	1	3.0	-	-	-	BRIDGE HASH MARKS
0010	10+41 50FT NC COUNT ROAD/L	TY LINE	6R	R12-1	-	-	-	-	1	1	WEIGHT LIMIT 15 TONS*
0010	CLANCY 50FT SO COUNT	UTH OF	7R	R12-55	48X18	-	-	-	1	1	15 TON BRIDGE 0.5 MILES AHEAD*
0010	ROAD/NE 50FT SO COUNT	UTH OF	8R	R12-55	48X18	-	-	-	1	-	15 TON BRIDGE 0.5 MILES AHEAD*
0010	ROAD/NE 830FTSC		5	W8-8	36x36	-	-	1	-	-	MOVE ROUGH ROAD SIGN TO TOP OF POST
0010	P-44- 750FT NO		9R	W5-2		-	-	-	1	1	NARROW BRIDGE*
0010	P-44-(	0935	10R	W5-2		_	_	-	1	1	NARROW BRIDGE*
					TOTAL 0010	4	12.0	1	10	9	

\*ALL SIGNS TO BE SALVAGED AND RETURNED TO TOWN OF BUCHANAN

#### TRAFFIC CONTROL

						643.0420 TRAFFIC	643.0705 TRAFFIC	643.0900	643.1000	643.5000	
						CONTROL	CONTROL		TRAFFIC		
		NUMBER OF	NUMBER OF	NUMBER OF		BARRICADES	WARNING	TRAFFIC	CONTROL SIGNS	TRAFFIC	
		BARRICADES	WARNING LIGHTS	SIGNS		TYPEIII	LIGHTS TYPE A	CONTROL SIGNS	FIXED MESSAGE	CONTROL	
CATEGORY	LOCATION	TYPE III PER DAY	TYPE A PER DAY	PER DAY	DAYS	DAY	DAY	DAY	SF	EACH	REMARKS
0010	7-DAY ADVANCED WARNING	-	-	2	7	-	-	-	36.0	-	G20-57
0010	PROJECT	14	28	18	60	1,080	1,680	960	-	0.5	
	TOTAL 0010					1,080	1,680	960	36.0	0.5	

Ε COUNTY: OUTAGAMIE SHEET PROJECT NO: 4656-07-71 HWY: COUNTY LINE ROAD MISCELLANEOUS QUANTITIES

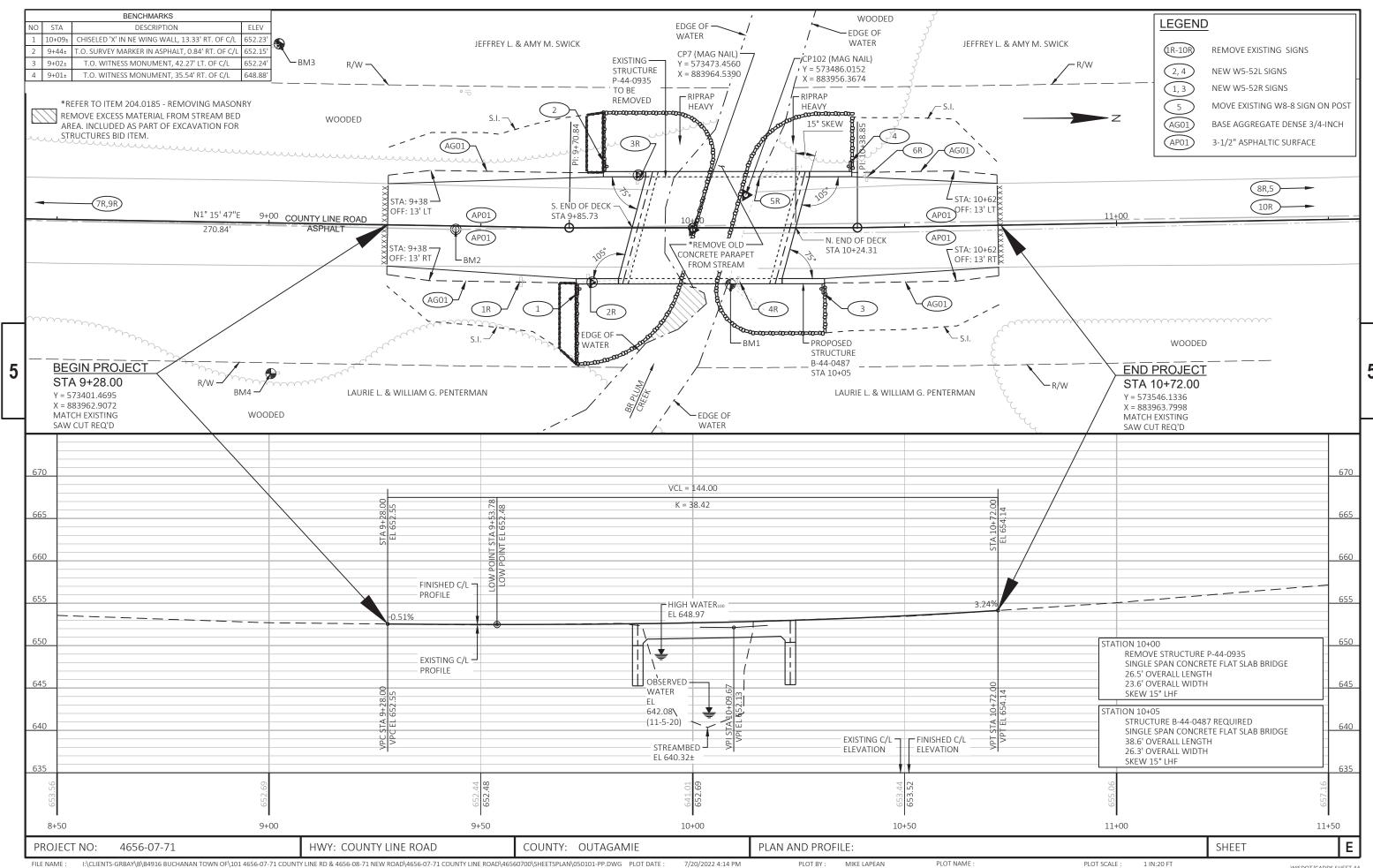
#### CONSTRUCTION STAKING

					650.4500	650.5000	650.6501.01	650.9911.01	650.9920	
							CONSTRUCTION	CONSTRUCTION		
							STAKING	STAKING		
							STRUCTURE	SUPPLEMENTAL		
					CONSTRUCTION		LAYOUT	CONTROL	CONSTRUCTION	
					STAKING	CONSTRUCTION	(STRUCTURE)	(PROJECT) (01.	STAKING SLOPE	
					SUBGRADE	STAKING BASE	(01. B-440487)	4656-07-71)	STAKES	
CATEGORY	STATION	TO	STATION	LOCATION	LF	LF	EACH	EACH	LF	REMARKS
0010				PROJECT	-	-	1	1	-	
0010	9+28.00	-	9+78.93	COUNTY LINE ROAD	-	-	-	-	51	
0010	9+28.00	-	9+85.73	COUNTY LINE ROAD	58	58	-	-	-	
0010	10+24.31	-	10+72.00	COUNTY LINE ROAD	48	48	-	-	-	
0010	10+31.08	-	10+72.00	COUNTY LINE ROAD	-	-	-	-	41	
				TOTAL 0010	106	106	1	1	92	

#### <u>SAWCUT</u>

			690.0150
			SAWING
			ASPHALT
CATEGORY	STATION	LOCATION	LF
0010	9+28.00	COUNTY LINE ROAD	19
0010	10+72.00	COUNTY LINE ROAD	20
		TOTAL 0010	39

SHEET Ε COUNTY: OUTAGAMIE PROJECT NO: 4656-07-71 HWY: COUNTY LINE ROAD MISCELLANEOUS QUANTITIES

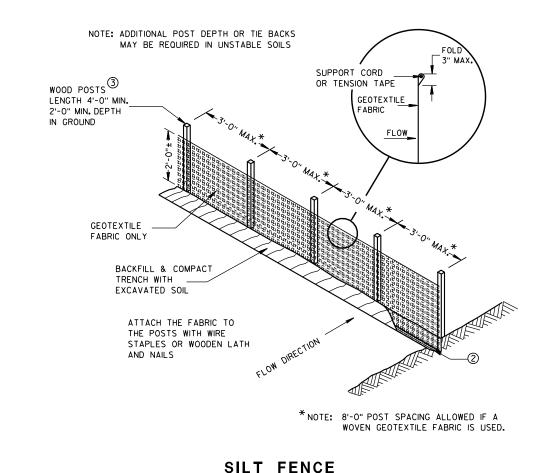


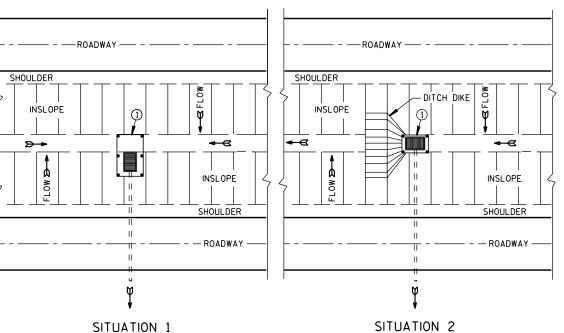
# Standard Detail Drawing List

08E09-06	SILT FENCE
08E11-02	TURBIDITY BARRIER
12A03-10	NAME PLATE (STRUCTURES)
15C02-08A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-08B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C03-05	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C04-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C06-10	SIGNING & MARKING FOR TWO LANE BRIDGES
15С11-09В	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

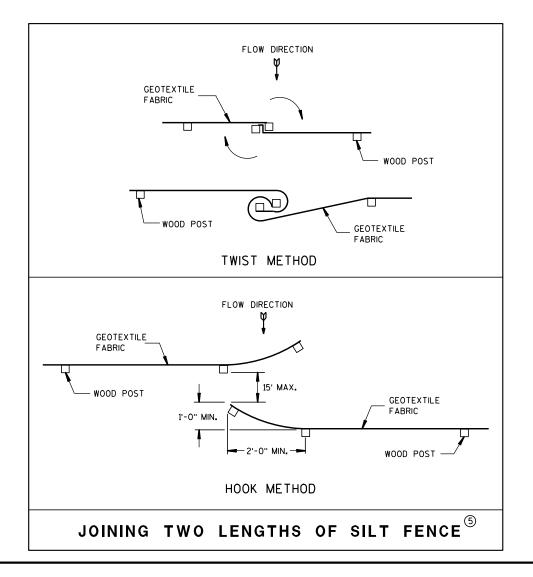
6

# TYPICAL APPLICATION OF SILT FENCE





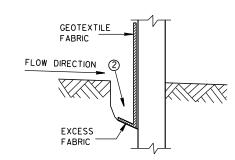
# PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



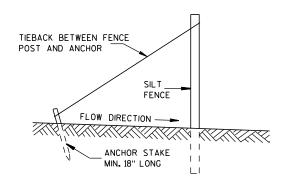
#### **GENERAL NOTES**

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 11/8" X 11/8" OF OAK OR HICKORY.
- 4) SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
- (5) CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



TRENCH DETAIL



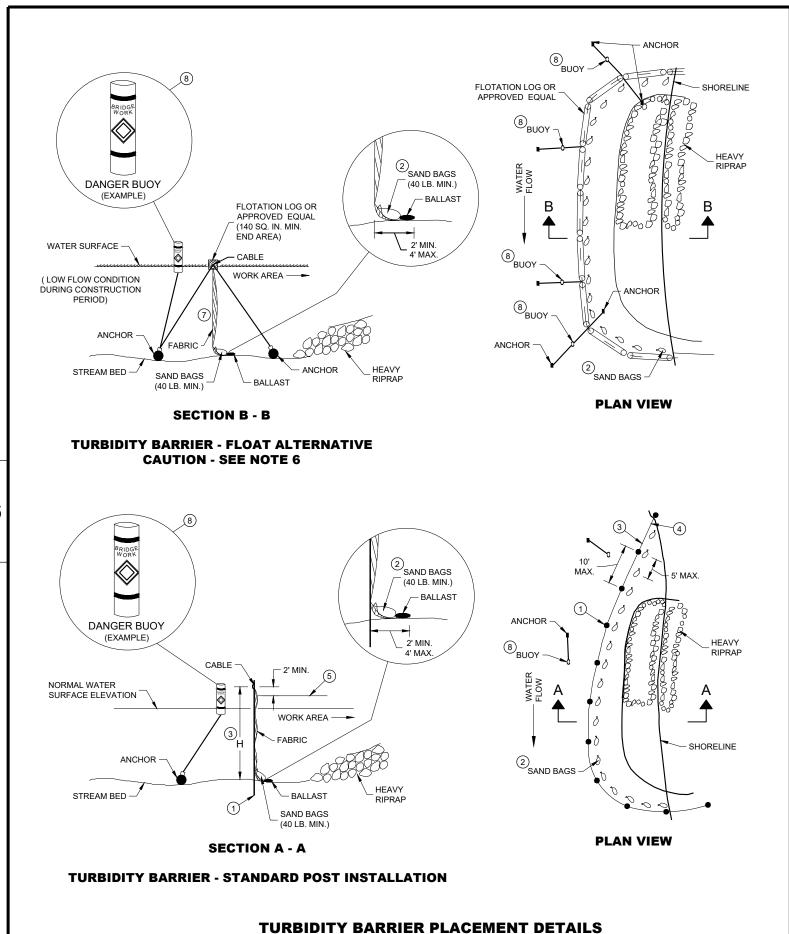
SILT FENCE TIE BACK (WHEN REQUIRED BY THE ENGINEER)

SILT FENCE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION APPROVED 4-29-05 /S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER

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တ  $\infty$ Ω

6

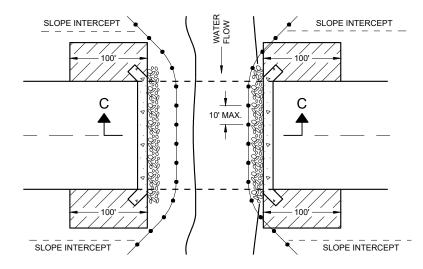


#### **GENERAL NOTES**

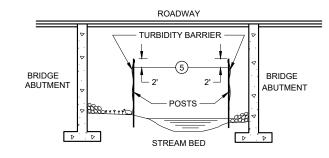
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

TURBIDITY BARRIER MAY BE REMOVED AT THE ENGINEERS DISCRETION, WHEN PERMANENT EROSION CONTROL MEASURES HAVE BEEN ESTABLISHED.

- ① DRIVEN STEEL POSTS, PIPES, OR CHANNELS. LENGTH SHALL BE SUFFICIENT TO SECURELY SUPPORT BARRIER AT HIGH
- (2) SAND BAGS TO BE USED AS ADDITIONAL BALLAST WHEN ORDERED BY THE ENGINEER TO MEET ADVERSE FIELD CONDITIONS. SPACE AS APPROPRIATE FOR SITE CONDITIONS.
- (3) WHEN BARRIER HEIGHT "H" EXCEEDS 8 FEET, POST SPACING MAY NEED TO BE DECREASED.
- (4) IN WATERWAYS SUBJECT TO FLUCTUATING WATER ELEVATIONS, PROVISIONS SHOULD BE MADE TO ALLOW THE WATER TO EQUALIZE ON EACH SIDE OF THE BARRIER. THIS MAY BE ACCOMPLISHED BY LEAVING A PORTION OF THE BARRIER OPEN ON
- (5) ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION PERIOD. MINIMUM BARRIER HEIGHT SHALL BE 2' GREATER THAN EITHER THE Q2 ELEVATION OR THE ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION, WHICHEVER IS GREATER.
- (6) FLOAT ALTERNATIVE WILL ONLY BE ALLOWED WITH WRITTEN APPROVAL OF THE ENGINEER, AND IS MEANT FOR LOCATIONS WHERE BEDROCK PREVENTS THE INSTALLATION OF POSTS.
- (7) ALLOW SUFFICIENT SLACK VERTICALLY AND HORIZONTALLY SO THAT SEDIMENT BUILD UP WILL NOT SEPARATE OR LOWER THE TURBIDITY BARRIER.
- (8) USE AS DIRECTED BY COAST GUARD OR DNR PERMIT WHEN WORKING IN NAVIGABLE WATERWAYS.



**PLAN VIEW** 



**SECTION C - C** 

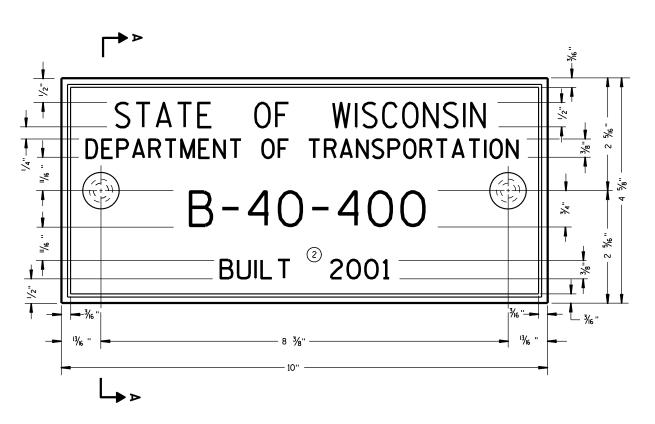
**TURBIDITY BARRIER DETAIL SHOWING TYPICAL PLACEMENT AT STRUCTURES** 

#### **TURBIDITY BARRIER**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION  $\infty$ 

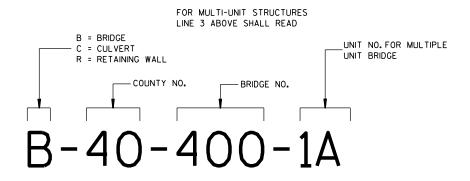
APPROVED	
6/4/02	/S/ Beth Cannestra
DATE	CHIEF ROADWAY DEVELOPMENT
F1 0.474	ENGINEER





#### TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)



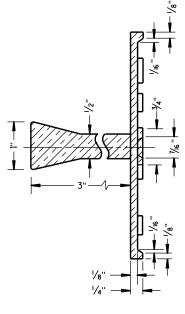
NUMBERING DESIGNATION MULTI-UNIT STRUCTURES

#### **GENERAL NOTES**

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

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

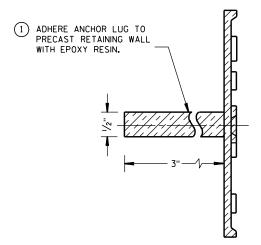
- 1 EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



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

SECTION A-A

ALTERNATE LUG



ALTERNATE LUG

(FOR ATTACHMENT TO PRECAST STRUCTURES)

# NAME PLATE (STRUCTURES)

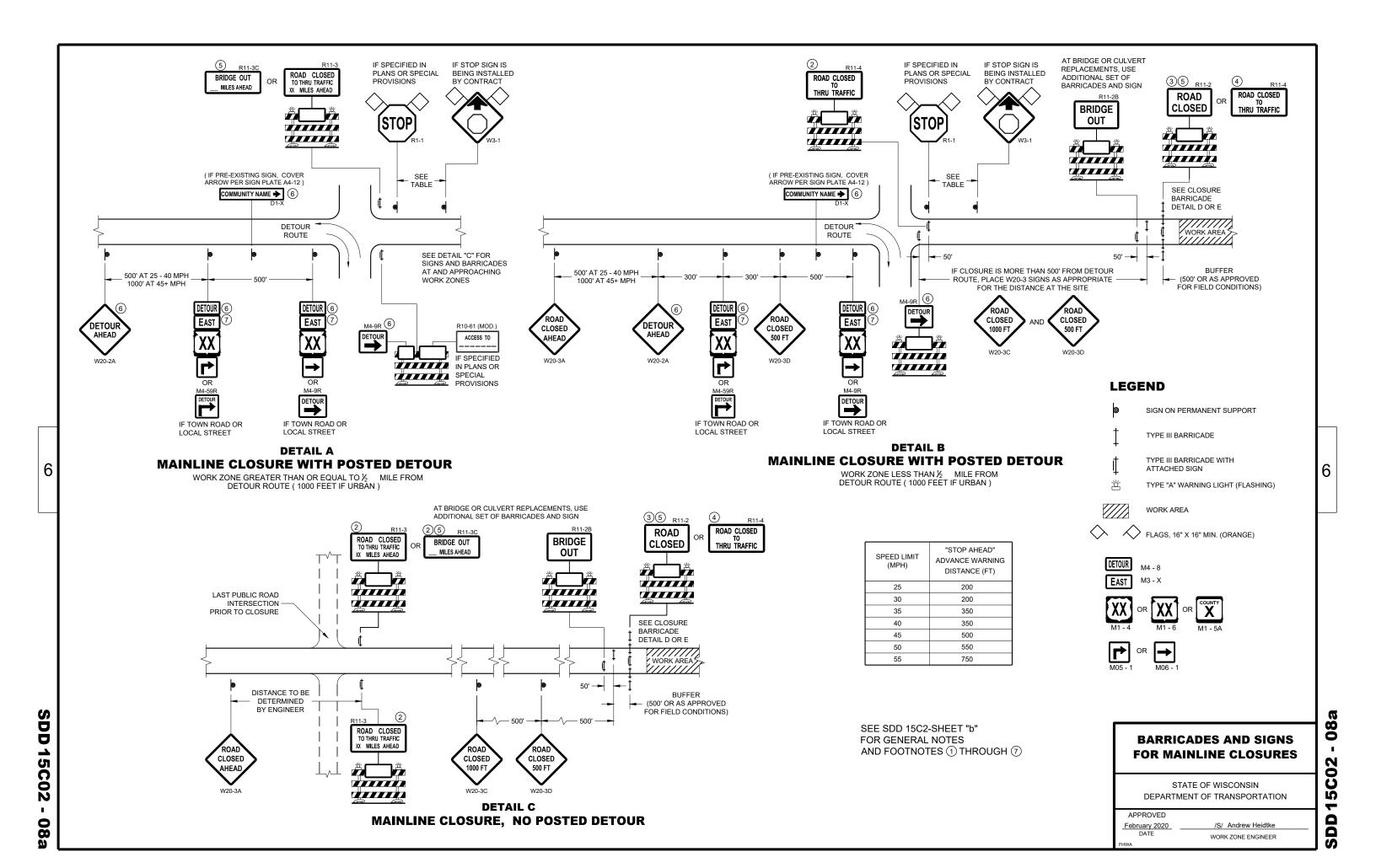
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

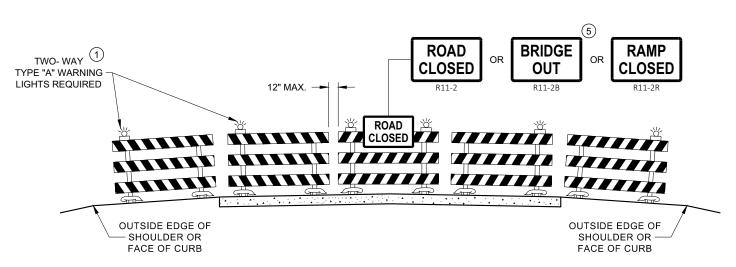
3-10

APPROVED

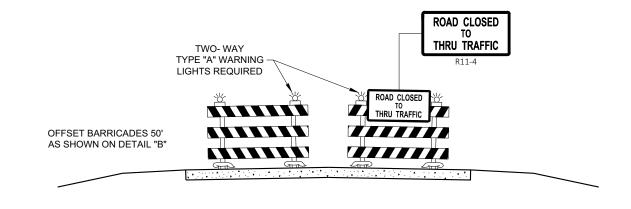
3/26/IO /S/ Scot Becker

DATE CHIEF STRUCTURAL DEVELOPMENT 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"

- TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING.
- THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.
- (3) FOR ROAD CLOSURE 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

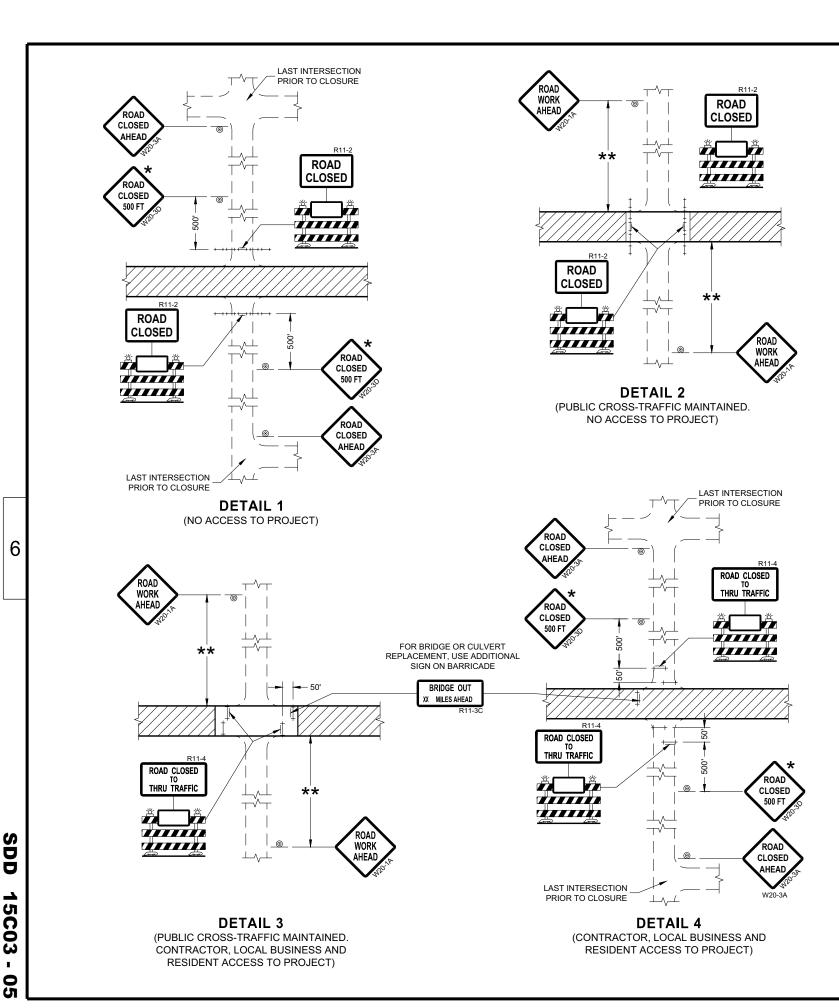
APPROVED

February 2020
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

15C02

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#### **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.

 $\begin{tabular}{l} FA "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS REESTABLISHED. \\ \end{tabular}$ 

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

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

TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

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

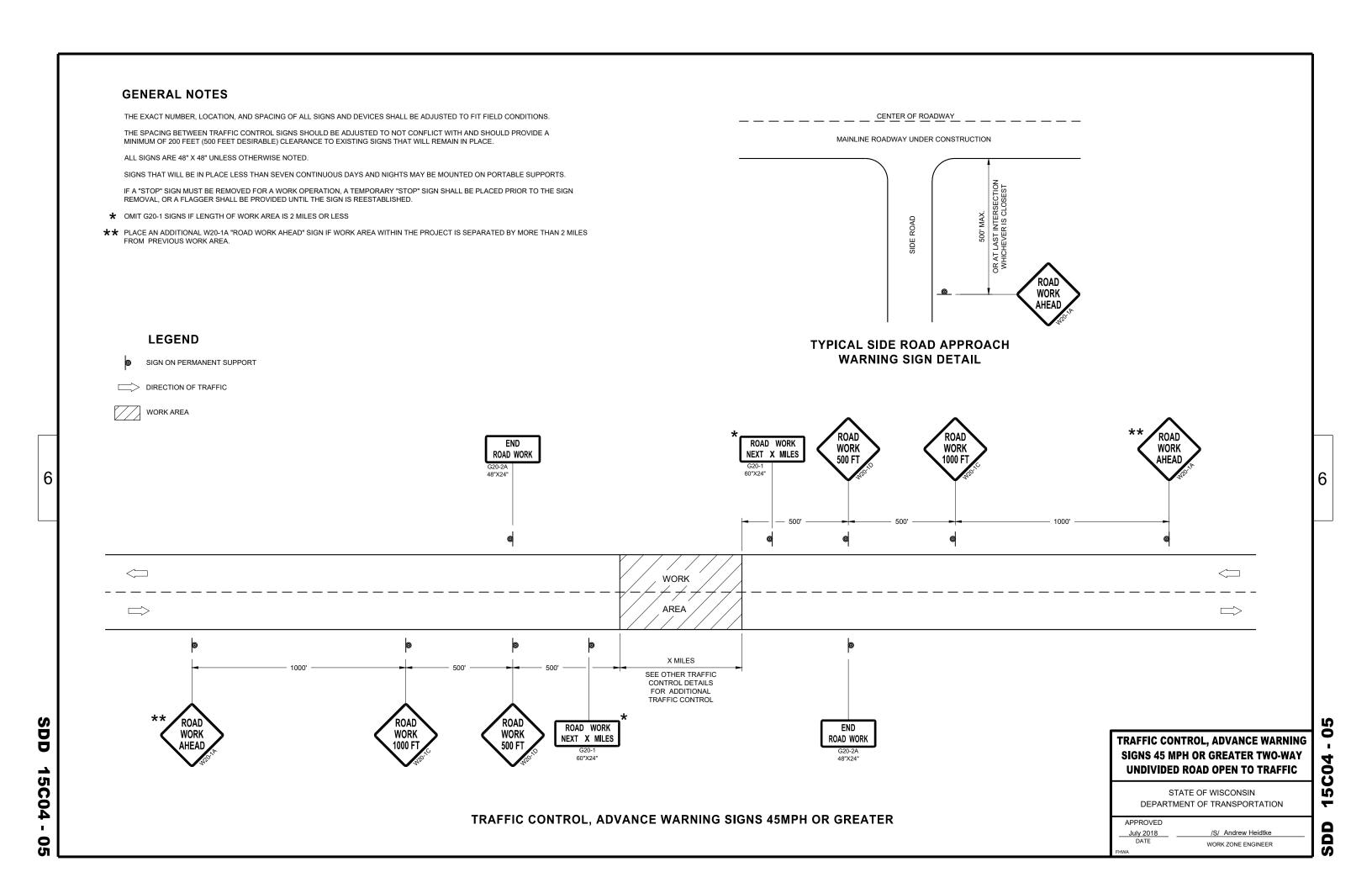
#### BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

 APPROVED
 /S/ Andrew Heidtke

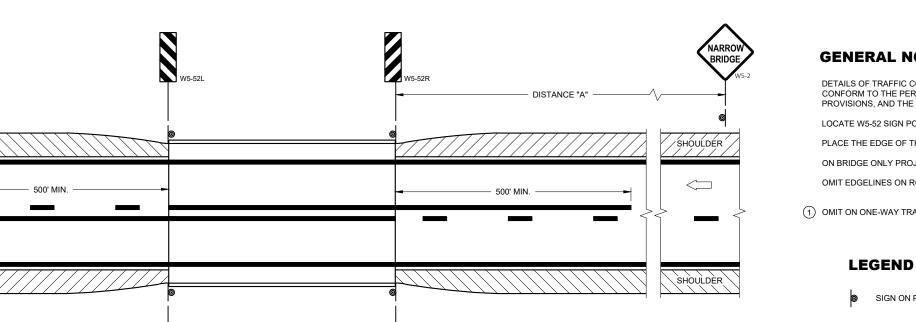
 July 2018
 /S/ Andrew Heidtke

 DATE
 WORK ZONE ENGINEER





# Ŋ SD

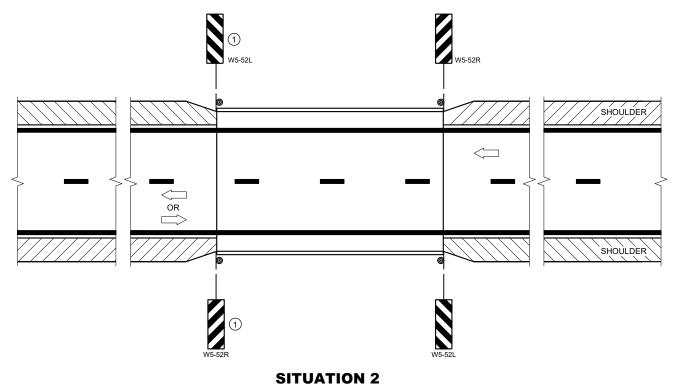


**SITUATION 1** WARRANTING CRITERIA: BRIDGE WIDTH IS AT LEAST 16 FEET BUT LESS THAN 24 FEET.

DISTANCE "A"

SDD

15C06



WARRANTING CRITERIA:

- 1. BRIDGE WIDTH IS AT LEAST 24 FEET AND
- 2. BRIDGE SHOULDER WIDTH IS LESS THAN 6 FEET

#### **GENERAL NOTES**

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THE DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

LOCATE W5-52 SIGN POST(S) BEHIND GUARDRAIL WHEN PRESENT.

PLACE THE EDGE OF THE W5-52 SIGN IN LINE WITH FACE OF CURB OR PARAPET.

ON BRIDGE ONLY PROJECTS, PLACE 300 FEET OF EDGELINE.

OMIT EDGELINES ON ROADWAYS WITHOUT EXISTING EDGELINES.

(1) OMIT ON ONE-WAY TRAVELED WAYS.

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

#### **DISTANCE TABLE**

POSTED OR 85TH PERCENTILE SPEED	DISTANCE "A"
25	150'
30	200'
35	250'
40	300'
45	400'
50	550'
55	700'

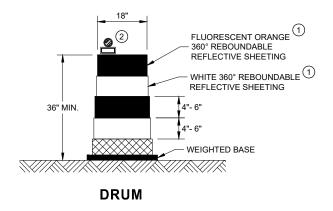
#### **SIGNING AND MARKING FOR TWO LANE BRIDGES**

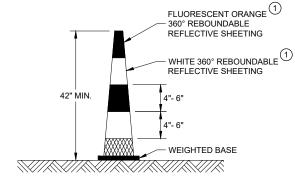
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED	
May 2022	/S/ Jeannie Silver
DATE	STATE SIGNING AND MARKING
51.044	ENGINEER

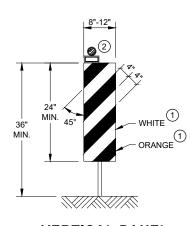
#### **GENERAL NOTES**

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

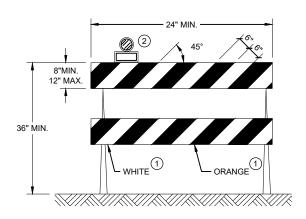




**42" CONE** DO NOT USE IN TAPERS ½ SPACING OF DRUMS

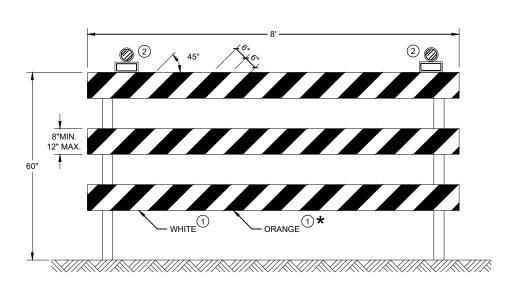


**VERTICAL PANEL** THE STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



#### **TYPE II BARRICADE**

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



#### **TYPE III BARRICADE**

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

\* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

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

<u>60</u>

15C

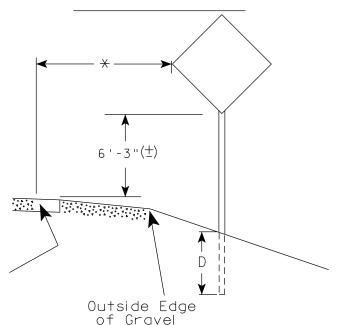
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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

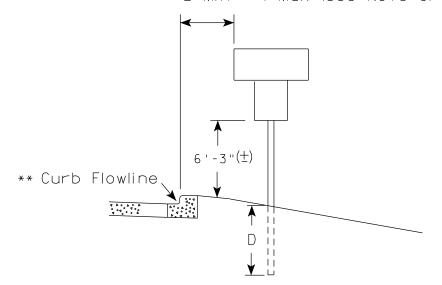
2' Min - 4' Max (See Note 6)

The state of t

White Edgeline Location



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



White Edgeline Location

geline

Outside Edge
of Gravel

\*\* 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

HWY:

\* 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.

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.

2. If signs are mounted on or behind barrier wall, see A4-10 sign plate.

The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" ( $\pm$ ). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" ( $\pm$ ).

- 3. For expressways and freeways, mounting height is 7'- 3"  $(\pm)$  or 6'-3"  $(\pm)$  depending upon existence of a sub-sign.
- 4. Minimum mounting height for signs mounted on traffic signal poles is 5' 3'' ( $\frac{+}{2}$ ).
- 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'' ( $\pm$ ) or as directd by the Engineer.

POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R Rawh

For State Traffic Engineer

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

SHEET NO:

Ε

PROJECT NO:

FILE NAME: C:\CAEfiles\Projects\tr\_stdplate\A43.dgn

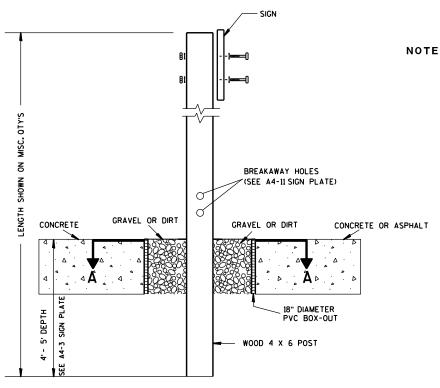
measured from the flow line.

COUNTY: PLOT DATE: 13-MAY 2020 1:04

PLOT BY : mscj9h

PLOT NAME :

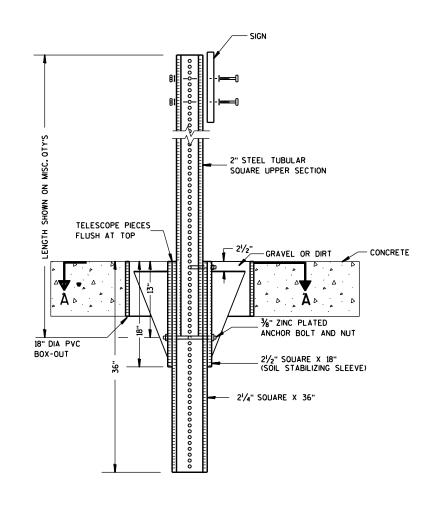
PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42



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.



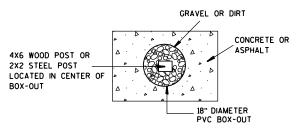
# ELEVATION VIEW

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

ELEVATION VIEW

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

HWY:



#### PLAN VIEW

COUNTY:

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer

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

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\A43B.DGN

PROJECT NO:

PLOT DATE: 27-JAN-2014 09:48

PLOT NAME :

PLOT BY: mscsja

PLOT SCALE : 13.659812:1.000000

APPROVED

- 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'' ( $\pm$ ) or as directed by the engineer.
- 8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±).
- \* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.
- \*\* The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.
- $\star\star\star$  See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

# POST EMBEDMENT DEPTH

D
(Min)
4'
5'

OF TYPE II SIGNS
ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

APPROVED

TYPICAL INSTALLATION

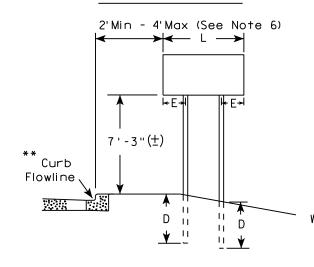
For State Traffic Engineer

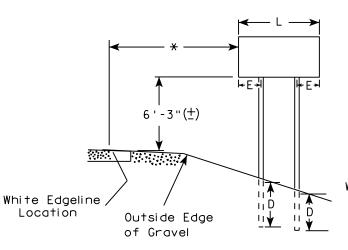
DATE 8/21/17 PLATE NO. A4-4.15

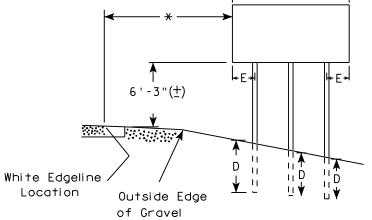
SHEET NO:

## URBAN AREA

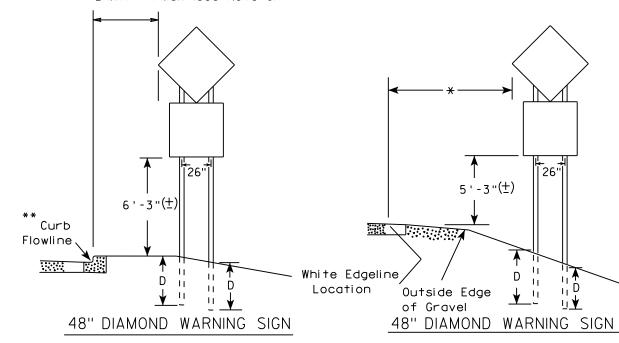
## RURAL AREA (See Note 3)







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



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

HWY:

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

COUNTY:

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

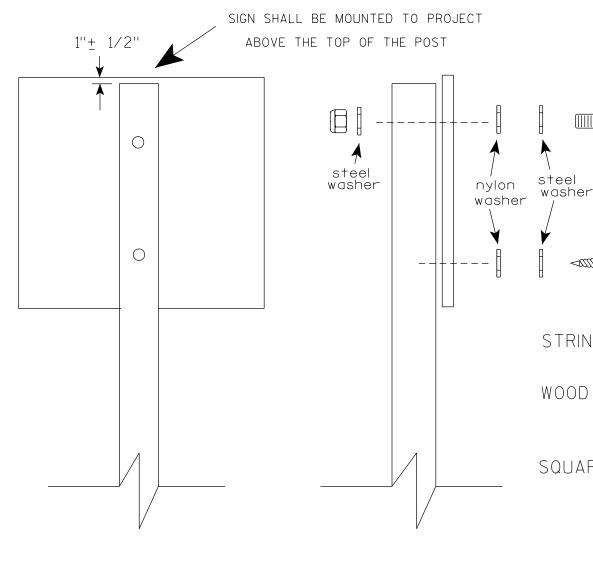
PROJECT NO:

PLOT DATE: 21-AUG-2017 15:54

PLOT BY: \$\$...plotuser...\$\$ PLOT NAME:

PLOT SCALE: 108.188297:1.000000

WISDOT/CADDS SHEET 42



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

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

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

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

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

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

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

SQUARE STEEL POSTS (2" x 2")

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

RIVETS - 3/32 " (6605-9-6) BULB-TITE. TRI-FOLD. ALUMINUM BODY/MANDREL O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X  $\frac{3}{8}$ " I.D. X  $\frac{1}{16}$ " STEEL 1-1/4" O.D. X  $\frac{3}{8}$ " I.D. X .080 NYLON

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

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matther

≠or State Traffic Engineer

SHEET NO:

DATE 4/1/2020

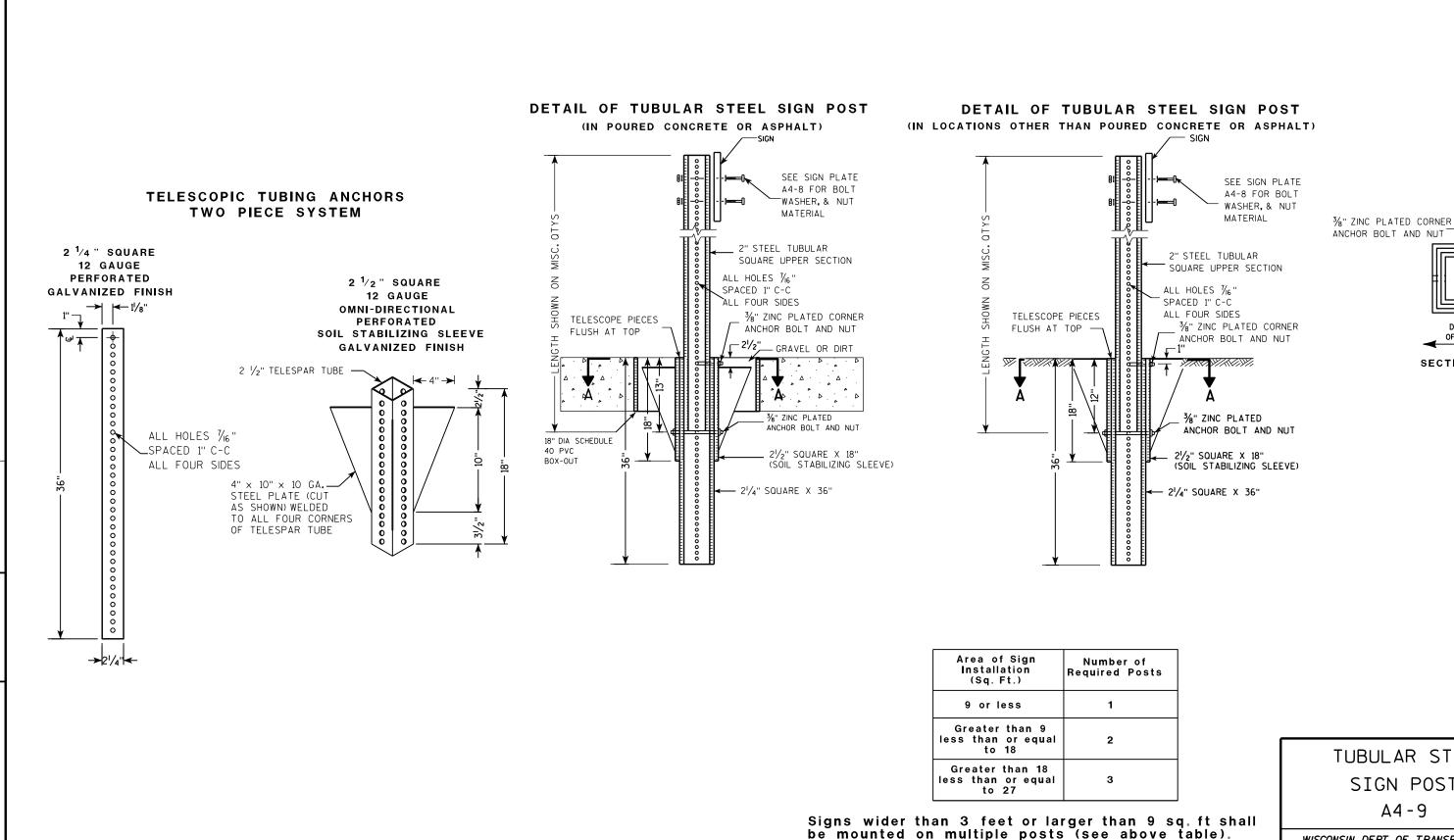
PLATE NO. <u>A4-8.9</u>

PROJECT NO:

PLOT DATE: 01-APRIL-2020

PLOT BY : dotc4c

Ε



TUBULAR STEEL SIGN POST A4-9

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer DATE 2/05/15 PLATE NO. <u>A4-9.9</u>

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\A49.DGN

HWY:

PROJECT NO:

PLOT DATE: 05-FEB-2015 17:09

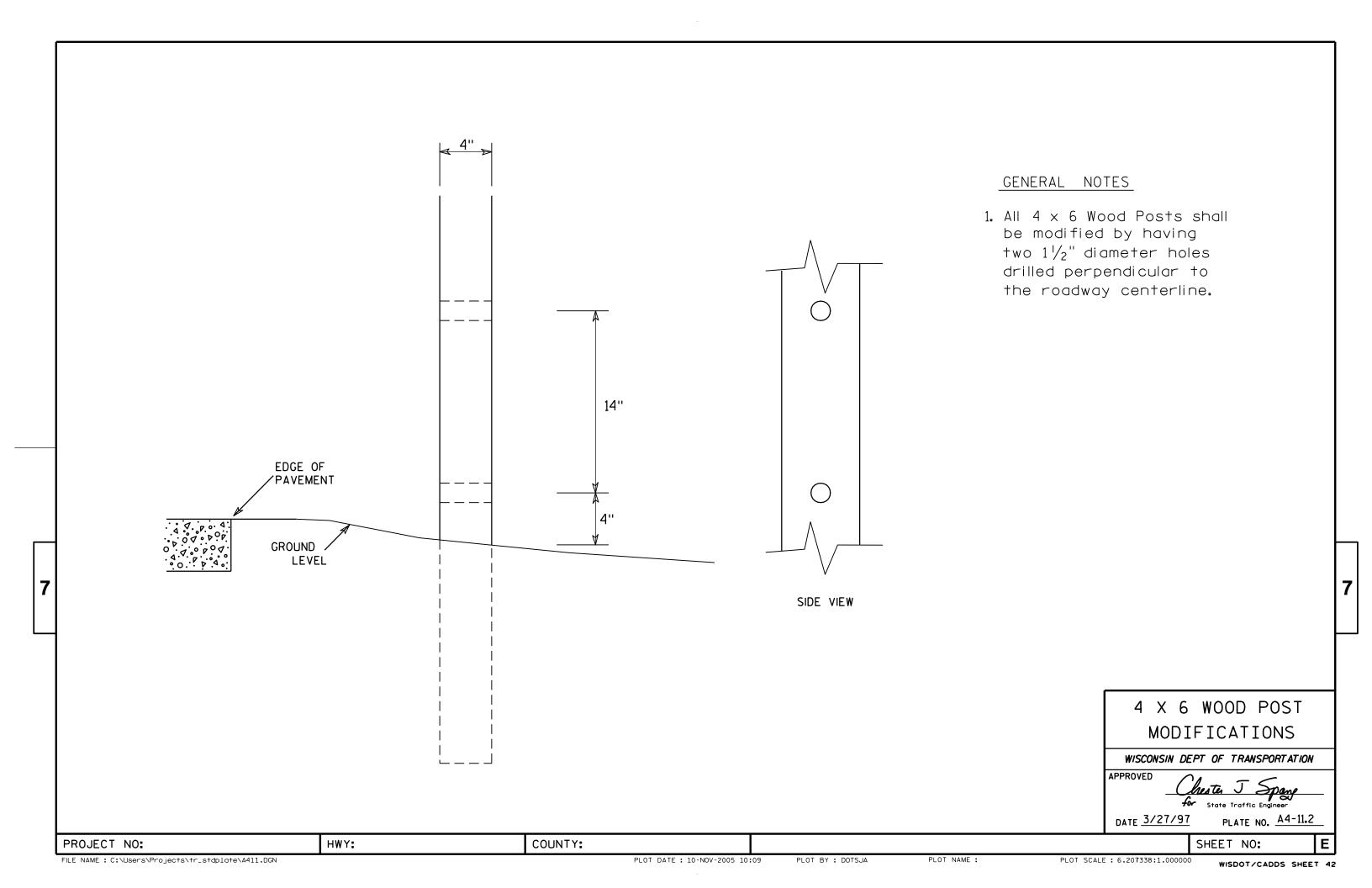
COUNTY:

PLOT NAME :

PLOT BY: mscsja

PLOT SCALE: 13.659812:1.000000

SECTION A-A



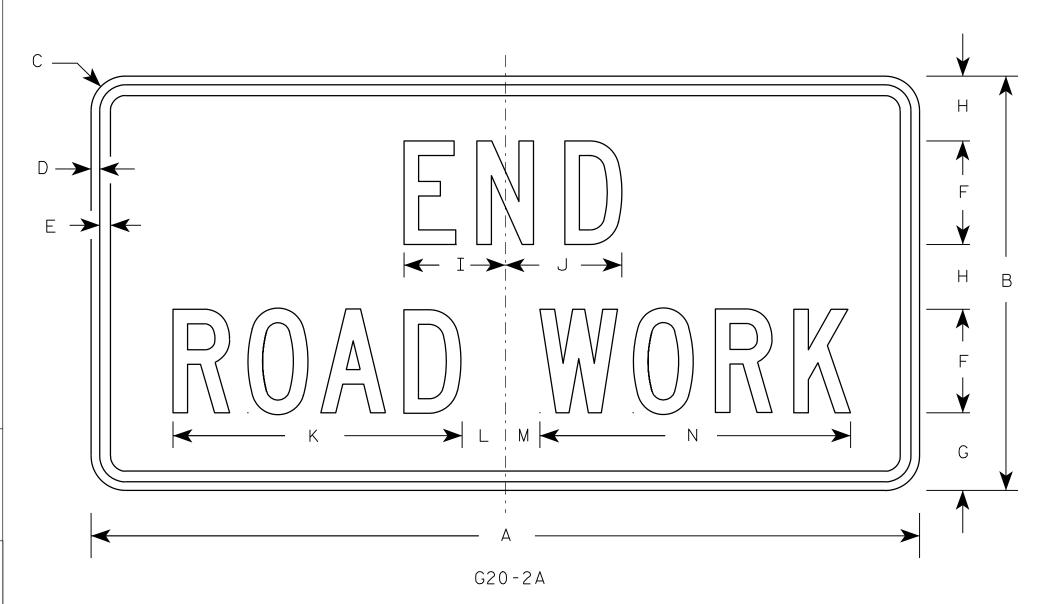
## NOTES

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 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.



Metric equivalent for this sign is:

SIZE					
1	900	mm	Χ	450	mm
2	1200	mm	Х	600	mm
3	1200	mm	Х	600	mm
4	1200	mm	Χ	600	mm
5	1200	mm	Χ	600	mm

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	T	U	٧	w	Х	Y	Z	Area sq. ft.	Area m2
1	36	18	1 1/8	3/8	1/2	4	3 3/4	2 1/2	4 1/8	4 1/8	11 1/8	2	1	12 1/8													4.5	0.41
2	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 %	6 3/4	16 ¾	2 1/2	1 3/4	18 ½													8.0	0.72
3	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 1/8	6 3/4	16 3/4	2 1/2	1 3/4	18 ½													8.0	0.72
4	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 %	6 3/4	16 ¾		1 3/4	18 ½													8.0	0.72
5	48	24	1 1/2	1/2	5/8	6	4 1/2	3 ¾	5 1/8	6 3/4	16 ¾	2 1/2	1 3/4	18 1/2													8.0	0.72

STANDARD SIGN G20-2A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED For State Traffic Engineer

DATE 9/30/09 PLATE NO. G20-2A.8 SHEET NO:

HWY:

COUNTY:

PLOT NAME :

PLOT SCALE: 5.561773:1.000000

WISDOT/CADDS SHEET 42

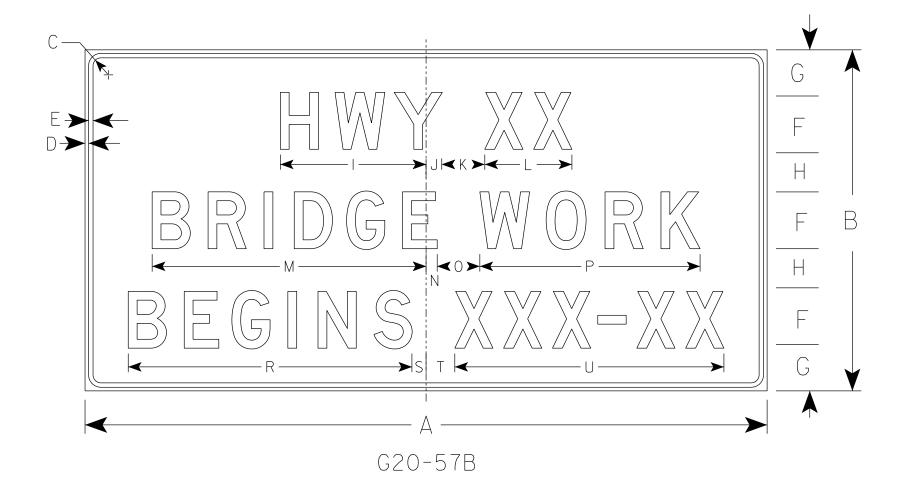
Ε

PROJECT NO:

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

Background - Orange Message - Black

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



SIZE	А	В	С	D	Е	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.
1 1																											
2																											
3	72	36	1 1/8	1/2	5/8	6	5	4	15 5/8	1 5/8	5	9 1/4	29 1/8	7/8	5	23 1/4		29 1/8	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 %	2 1/4	6	12 1/4	38 1/2	1 1/2	6	31		39 1/4	2	4	37 1/8						32.0
5																											

COUNTY:

STANDARD SIGN G20-57B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

for State Traffic Engineer

SHEET NO:

DATE \_\_\_1/22/19

PLATE NO. <u>G20-57B.</u>1

Ε

FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\_G2057B.dgn

HWY:

PROJECT NO:

PLOT DATE: 22-JAN-2019 1:31

PLOT BY : mscj9h

PLOT NAME :

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

#### NOTES

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

Background - White Message - Black

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

 $D \rightarrow$ F->

R11-3

\*\* See Note 5

SIZE	А	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	Q	R	S	Т	U	٧	W	Х	Υ	Z	Area sq. ft.
1	36	18	1 1/4	3/8	3/8	4	3	2	11 1/4	3	1 1/8	15 3/8	2	3 3/4	8 1/4	5/8		1 3/8	13 1/4	8 3/8	7/8	10 1/2	7 1/8				4.5
2S	60	30	1 3/8	1/2	5/8	6	5	3 1/2	16 1/8	5	1 3/8	23 1/4	3	6 1/4	13 %	1 1/8		1 1/8	22 1/8	14	1 1/2	17 1/2	11 1/8				12.5
2M	60	30	1 3/8	1/2	5/8	6	5	3 1/2	16 1/8	5	1 3/8	23 1/4	3	6 1/4	13 %	1 1/8		1 1/8	22 1/8	14	1 1/2	17 1/2	11 1/8				12.5
3																											
4																											
5																											
PRC	OJECT NO: HWY:									С	OUNT		•	•	•		•		•	•				•			

STANDARD SIGN R11-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew & Kauch

SHEET NO:

DATE 6/14/2021 PLATE NO. R11-3.9

Ε

FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\R113.DGN

PLOT DATE: 14-JUNE 2021 10:04

PLOT BY : dotc4c

PLOT NAME :

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



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

Background - White Message - Black

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

R11-3B

\*\* See Note 5

D ➤

E→

I —														,								,	,				
SIZE	Α	В	С	D	Е	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	T	U	٧	W	Х	Y	Z	Area sq. ft.
1 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 ¾	8 3/8	4 3/4	6 1/2	2	6 3/4	7 1/8			4.5
25	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 ½	11	11 1/8			12.5
2M	60	30	1 3/8	1/2	5/8	6	5	4	4 1/4	3 %	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 1/8			12.5
3																											
4																											
5																											

COUNTY:

STANDARD SIGN R11-3B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew & Rawh DATE 3/21/17 PLATE NO. R11-3B.3

SHEET NO:

PLOT SCALE: 6.896672:1.000000

HWY:

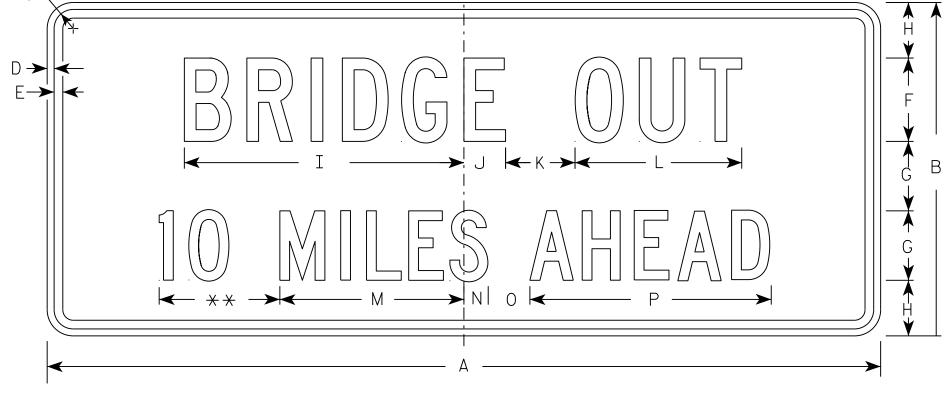
PROJECT NO:



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

Background - White Message - Black

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



R11-3C

\*\* See Note 5

1/4 MILE AND

SIZE	Α	В	С	D	E	F	G	Н	I	7	K	L	М	N	0	Р	٥	R	S	Т	U	٧	W	X	Υ	Z	Area sq. ft.
1	36	15	1 3/8	1/2	5/8	4	3	2 1/2	13 1/4	2 1/4	3	8	8	1 1/2	2	10 3/4		7 1/8									3 <b>.</b> 75
2S	60	24	1 3/8	1/2	5/8	6	5	4	20 1/8	3	5	12	13 1/4	1 3/4	3	17 3/8		11 1/8									10.0
2M	60	24	1 3/8	1/2	5/8	6	5	4	20 1/8	3	5	12	13 1/4	1 3/4	3	17 3/8		11 1/8									10.0
3																											
4																											
5																											

STANDARD SIGN R11-3C

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

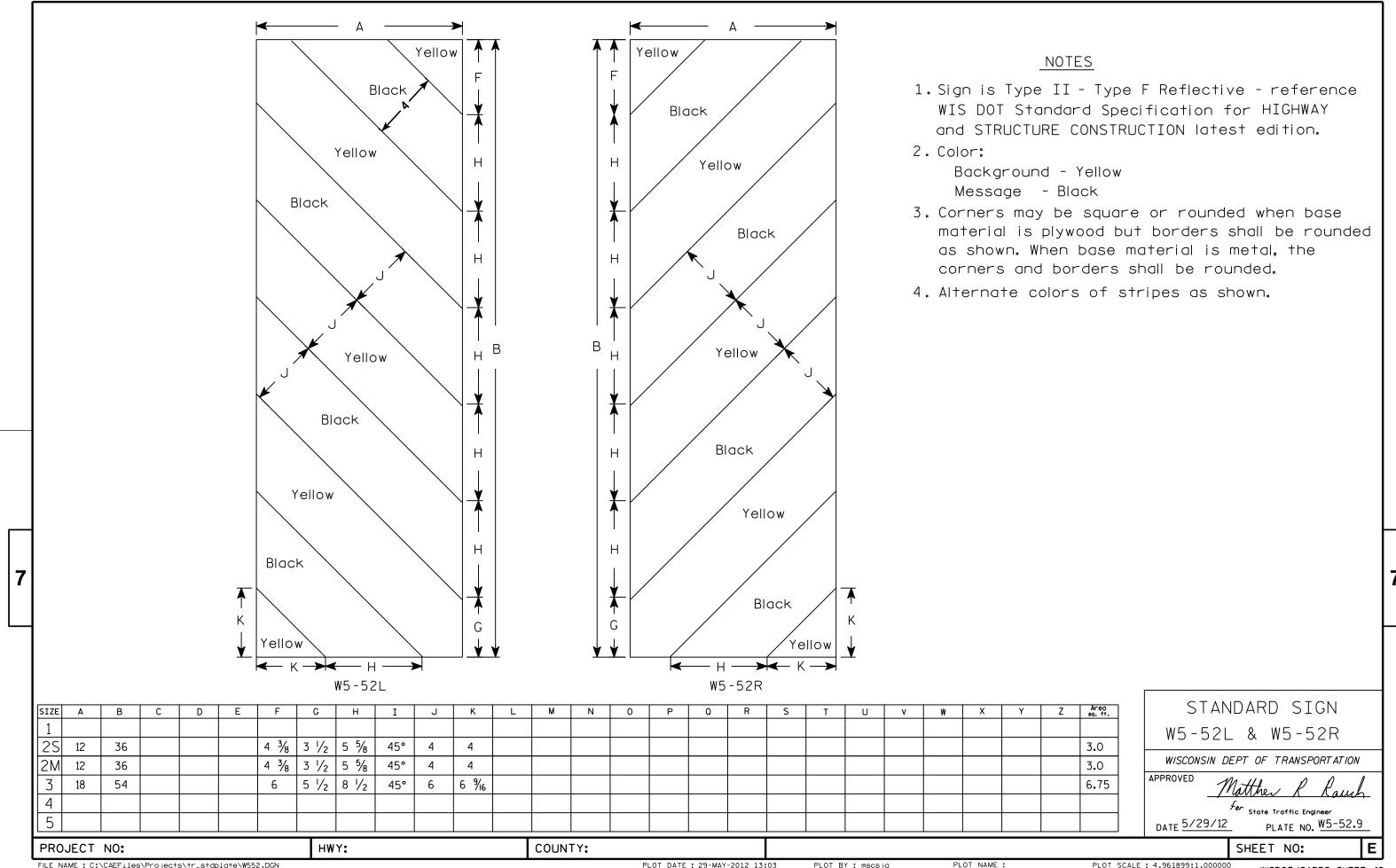
Matthew R Rauch
For State Traffic Engineer

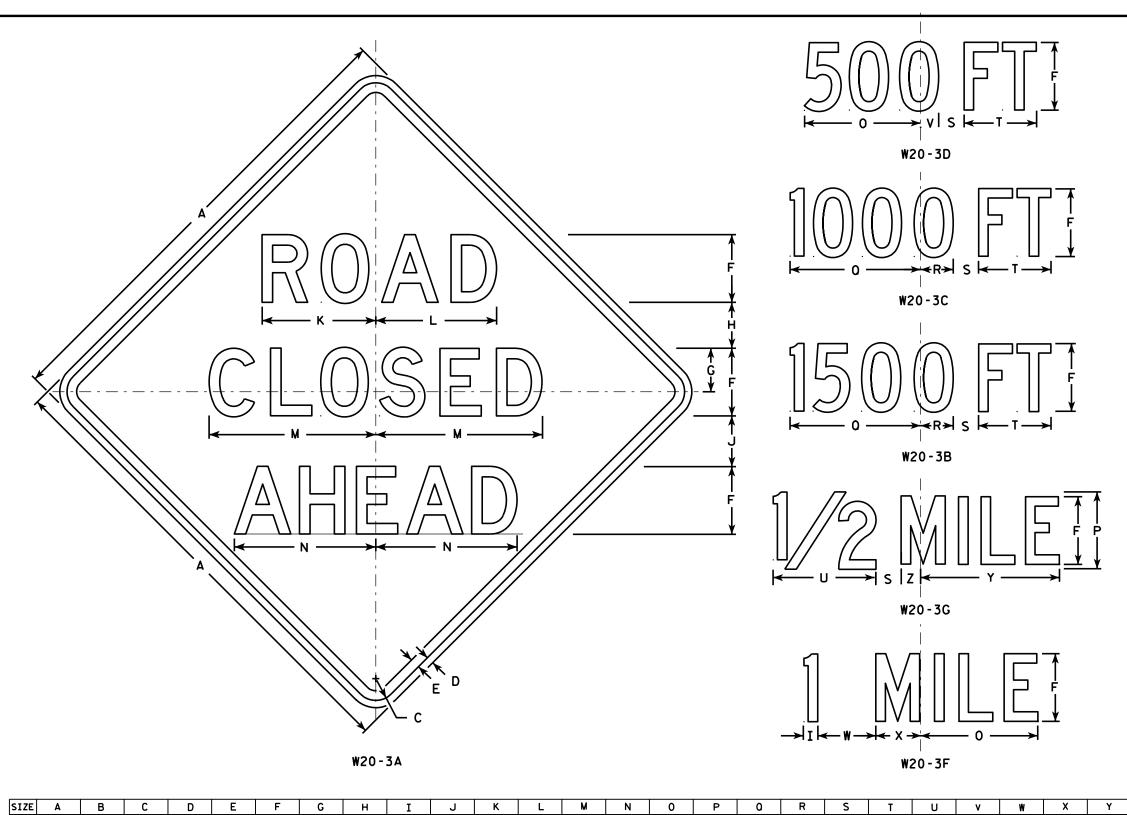
DATE <u>7/28/16</u>

PLATE NO. R11-3C.3

PLOT BY: \$\$...plotuser...\$\$

PROJECT NO:





8 3/8 8 7/8 12 1/2

| 5 1/4 | 11 3/4 | 12 1/2 | 17 1/4 | 14 5/8 |

COUNTY:

1 1/2 | 5 1/4 | 11 3/4 | 12 1/2 | 17 1/4 | 14 5/8 |

4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8

4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8

4 1/2 | 4 3/4 | 1 1/2 | 5 1/4 | 11 3/4 | 12 1/2 | 17 1/4 | 14 5/8 |

#### 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. Lines 1 and 2 are Series D. Line 3 is Series D for AHEAD and Series C for all other distances.

4 1/2 3 1/2 10 3/4 1 3/4 4 \( \frac{5}{8} \) 14 \( \frac{3}{8} \) 2 \( \frac{3}{8} \) 16.0 4 \\ 14 \\ 38 \ 2 \\ 38 \ 16.0 4 % | 14 % | 2 % | 16.0 4 \\ 14 \\ 38 \ 2 \\ 38 \ 16.0 4 5/8 14 3/8 2 3/8 16.0

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

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer DATE 3/18/11 PLATE NO. W20-3.7

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr\_stdplate\W203.DGN

2 1/4

1 %

36

48

48

48

48

PROJECT NO:

2M

5

5/8

3/4

3/4

3/4

3/4

3/4

¾

HWY:

PLOT DATE: 18-MAR-2011 12:08

PLOT BY: mscj9h

PLOT NAME :

1 3/8

8

7 1/2 10 5/8 1 7/8

7 1/2 10 5/8 1 7/8

10 % 1 %

5 %

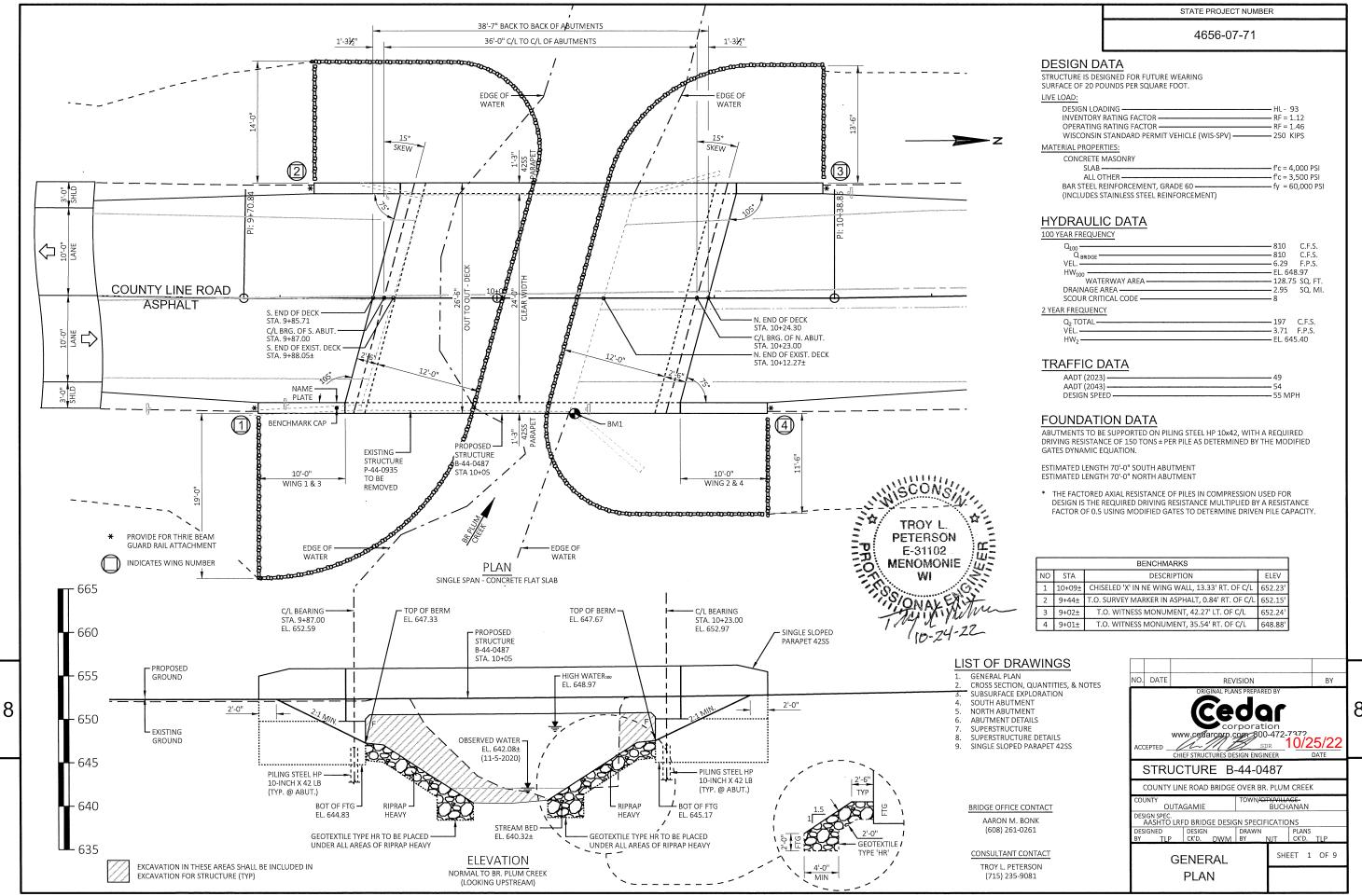
7 1/2

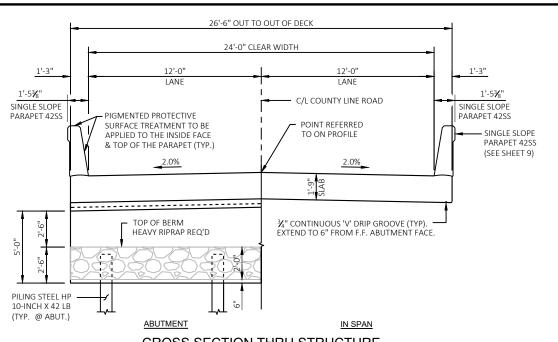
13 1/2 3 3/8 2 5/8 7 1/2 10 5/8 1 3/8

13 1/2 3 3/8 2 5/8 7 1/2 10 5/8 1 3/8

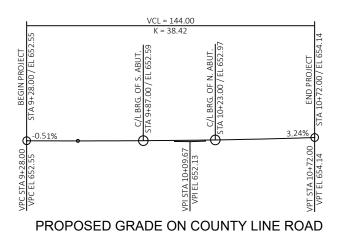
13 1/2 3 3/8 2 5/8

PLOT SCALE: 9.931739:1.000000

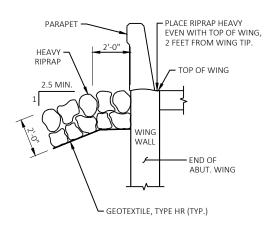




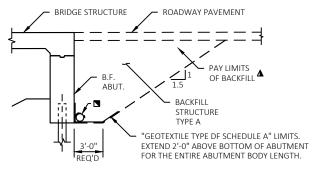
#### **CROSS SECTION THRU STRUCTURE** (LOOKING NORTH)



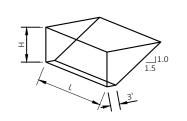
#### TOTAL ESTIMATED QUANTITIES SOUTH NORTH TOTALS BID ITEMS UNIT SUPER NUMBER ABUT. ABUT. REMOVING STRUCTURE OVER WATERWAY REMOVE DEBRIS B-44-0487 FACH 203.0250 EACH 1 206.1001 EXCAVATION FOR STRUCTURES BRIDGES B-44-0487 BACKFILL STRUCTURE TYPE A TON 100 200 210.1500 100 CONCRETE MASONRY BRIDGES CY 30.2 30.6 81.2 142.0 ROTECTIVE SURFACE TREATMENT 103 103 502.3210 IGMENTED SURFACE SEALER SY 58 58 505.0400 BAR STEEL REINFORCEMENT HS STRUCTURES LB 1530 1530 3060 BAR STEEL REINFORCEMENT HS COATED STRUCTURES LB 1250 1260 16040 18550 516.0500 UBBERIZED MEMBRANE WATERPROOFING SY 16 550.1100 PILING STEEL HP 10-INCH X 42 LB LF 280 280 560 606.0300 RIPRAP HEAVY CY 95 75 170 612.0406 PIPE UNDERDRAIN WRAPPED 6-INCH 1 F 80 80 160 GEOTEXTILE TYPE DF SCHEDULE A SY 27 27 54 645.0111 645.0120 GEOTEXTILE TYPE HR SY 170 140 310 NON-BID ITEMS FILLER SIZE ½" X ¾"



#### TYPICAL FILL SECTION AT WING TIPS



#### STRUCTURE BACKFILL & LIMITS



#### ABUTMENT BACKFILL DIAGRAM FOR WINGS PARALLEL TO ROADWAY

WFID

DFTAIL

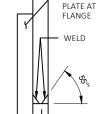
WELD

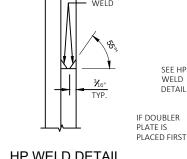
DETAIL

- = OUT TO OUT OF ABUTMENT, INCLUDING WINGS (FT)
- = AVERAGE ABUTMENT FILL HEIGHT (FT) = EXPANSION FACTOR (1.20 FOR CY BID ITEMS & 1.00 FOR TON BID ITEMS)
- = (L)(3.0')(H) + (L)(0.5)(1.5H)(H)

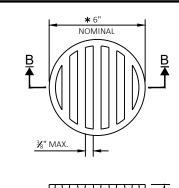
DOUBLER

- $V_{CY} = V_{CF} (EF)/27$  $V_{TON} = V_{CY} (2.0)$





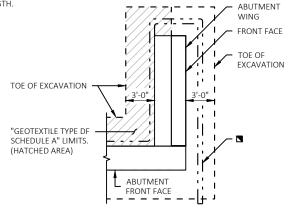
HP WELD DETAIL FLANGE SHOWN, WEB SIMILAR



#### RODENT SHIELD DETAIL

\* DIMENSION IS APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL. THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH"

THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER A PIPE COUPLING IS REQUIRED. FOR THE ATTACHMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.



## STATE PROJECT NUMBER

4656-07-71

#### **GENERAL NOTES**

DRAWINGS SHALL NOT BE SCALED.

ALL STATIONS AND ALL ELEVATIONS ARE IN FEET.

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

ALL REINFORCING BARS ARE ENGLISH. THE FIRST DIGIT OF A THREE-DIGIT BAR MARK OR THE FIRST TWO DIGITS OF A FOUR-DIGIT BAR MARK SIGNIFIES THE BAR SIZE.

JOINT FILLER SHALL CONFORM TO THE REQUIREMENTS OF A.A.S.H.T.O. DESIGNATION M 153, TYPE I, II OR III OR A.A.S.H.T.O. DESIGNATION M 213.

THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH RIPRAP HEAVY AND GEOTEXTILE TYPE 'HR TO THE EXTENT SHOWN ON SHEETS 1 AND 2 AND IN THE

THE EXISTING STRUCTURE (P-44-0935) IS A 26.5' LONG BY 23.6' WIDTH SINGLE SPAN CONCRETE FLAT SLAB BRIDGE.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES BRIDGES B-44-0487" SHALL BE THE EXISTING GRADE LINE

AT THE BACK FACE OF ABUTMENT ALL VOLUME WHICH CANNOT BE IN PLACE BEFORE ABUTMENT CONSTRUCTION AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH BACKFILL STRUCTURE.

AT ABUTMENTS, CONCRETE POURED UNDERWATER WILL BE ALLOWED AND SHALL BE DONE IN ACCORDANCE WITH SECTION 502.3.5.3 OF THE STANDARD SPECIFICATIONS.

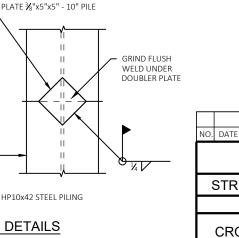
SLAB FALSE WORK SHALL BE SUPPORTED ON PILES OR THE SUBSTRUCTURE UNLESS AN ALTERNATE METHOD IS APPROVED BY THE ENGINEER.

- ▲ BACKFILL PAY LIMITS, BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.
- PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF

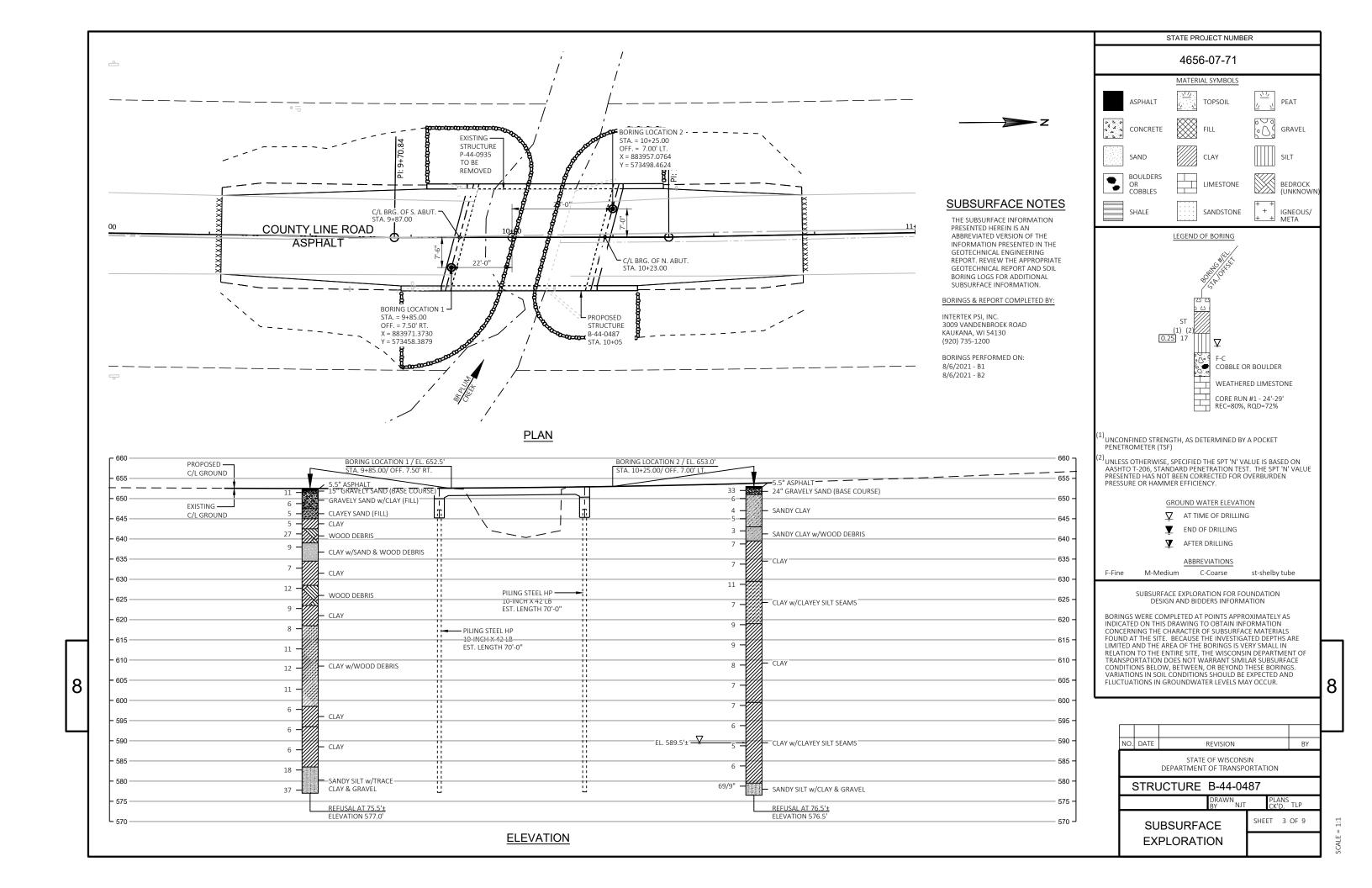
#### ABUTMENT PLAN WITH WING

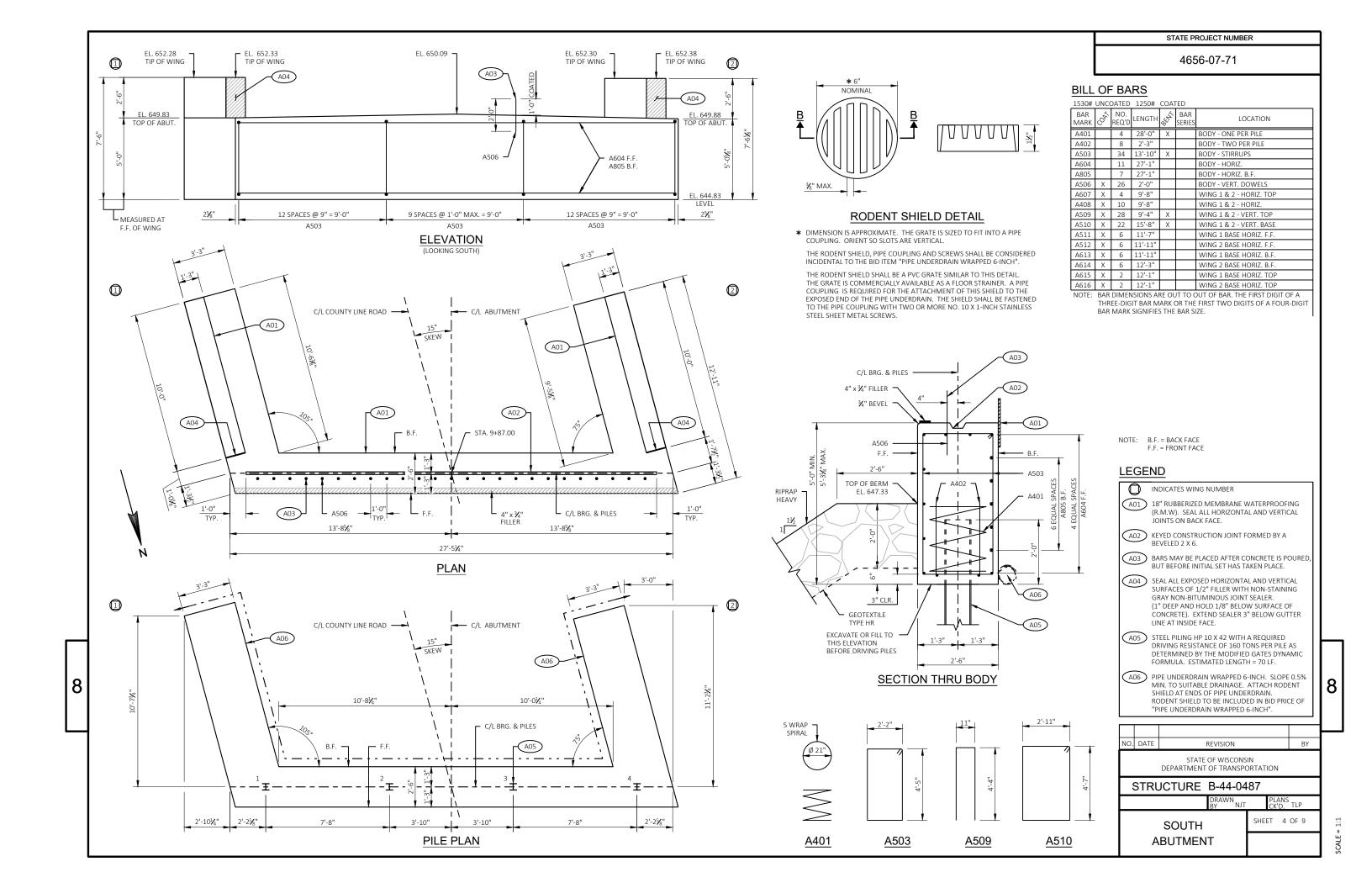
HP10x42 STEEL PILING

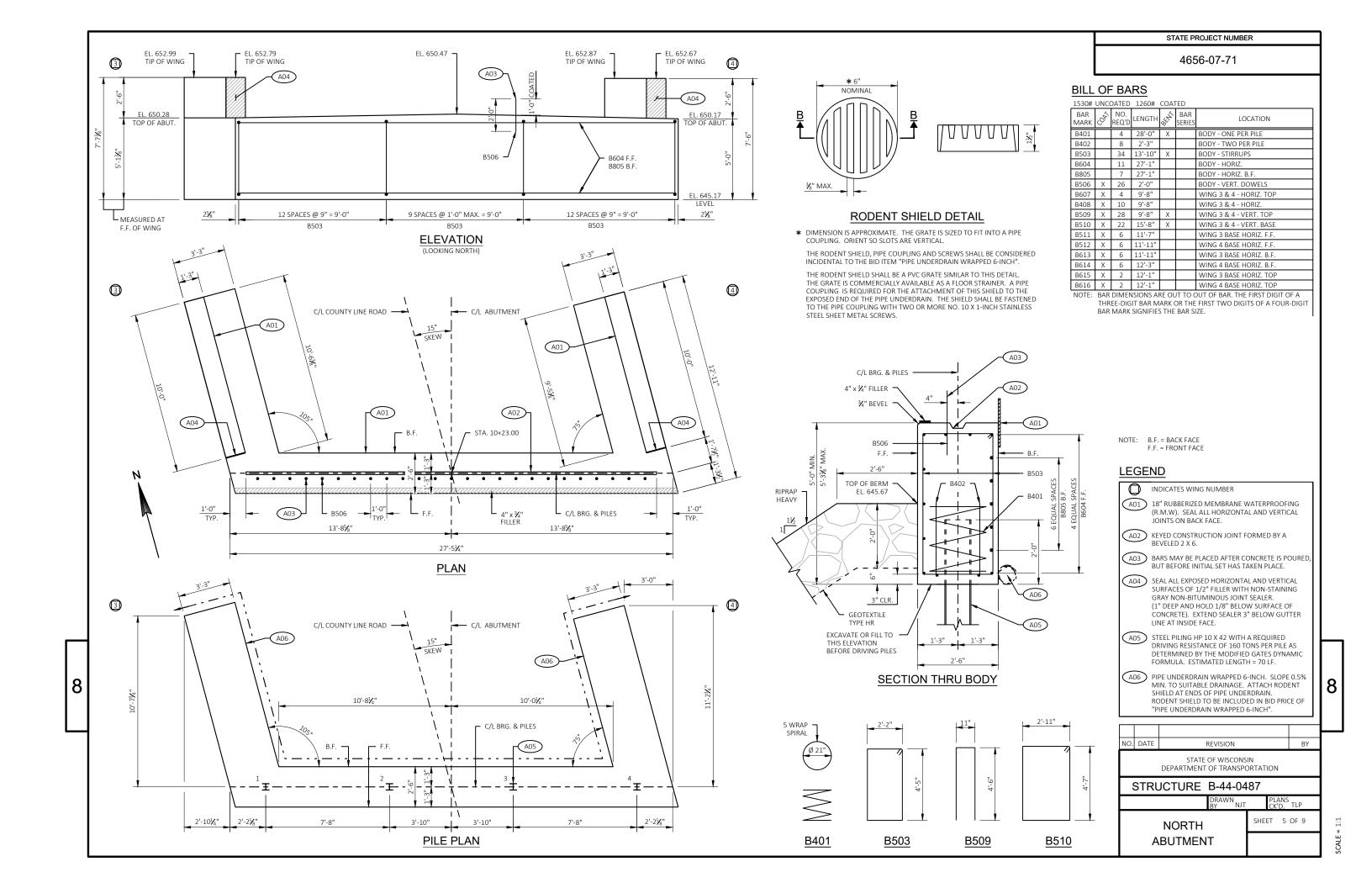
PILE SPLICE DETAILS

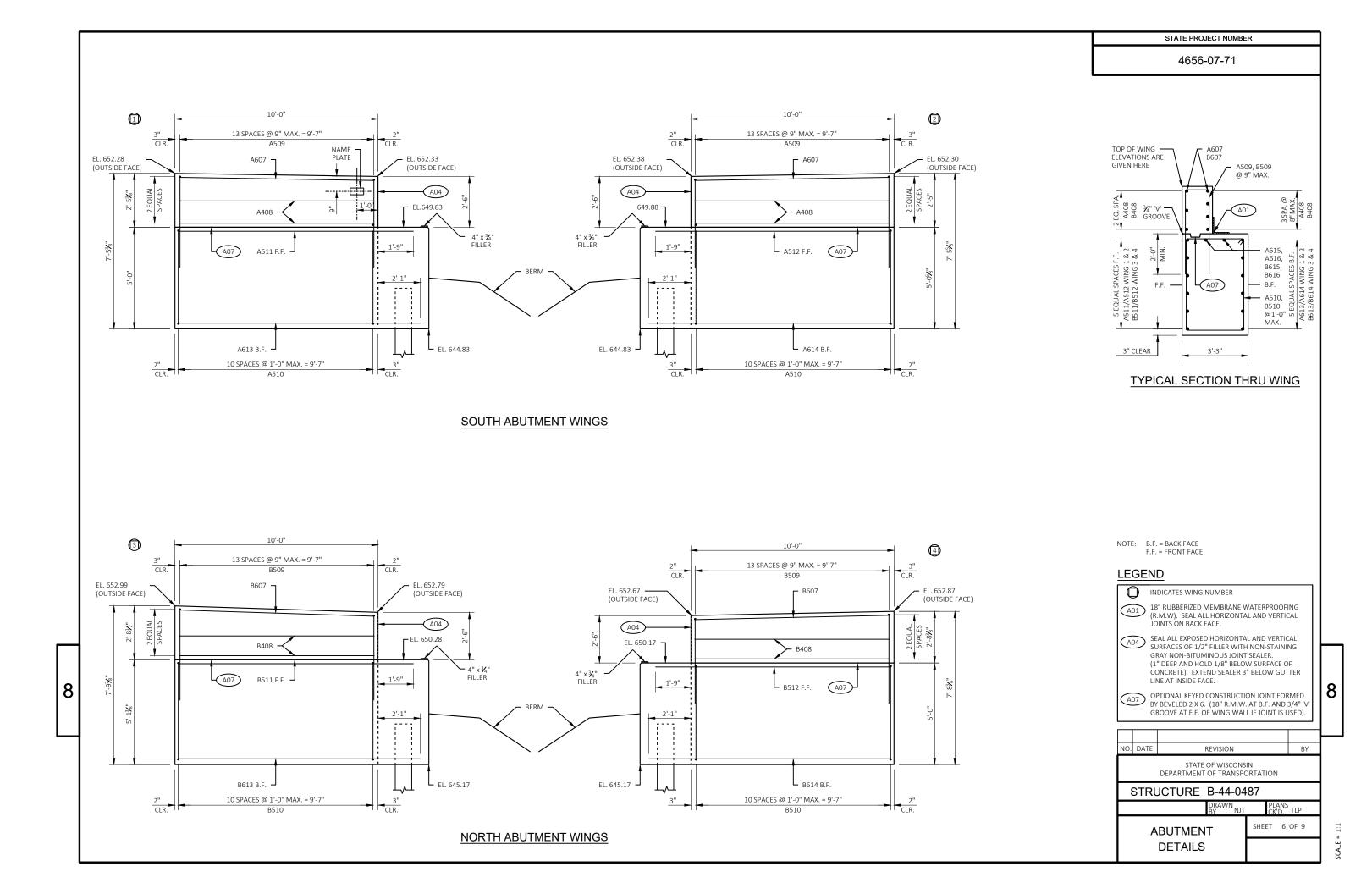


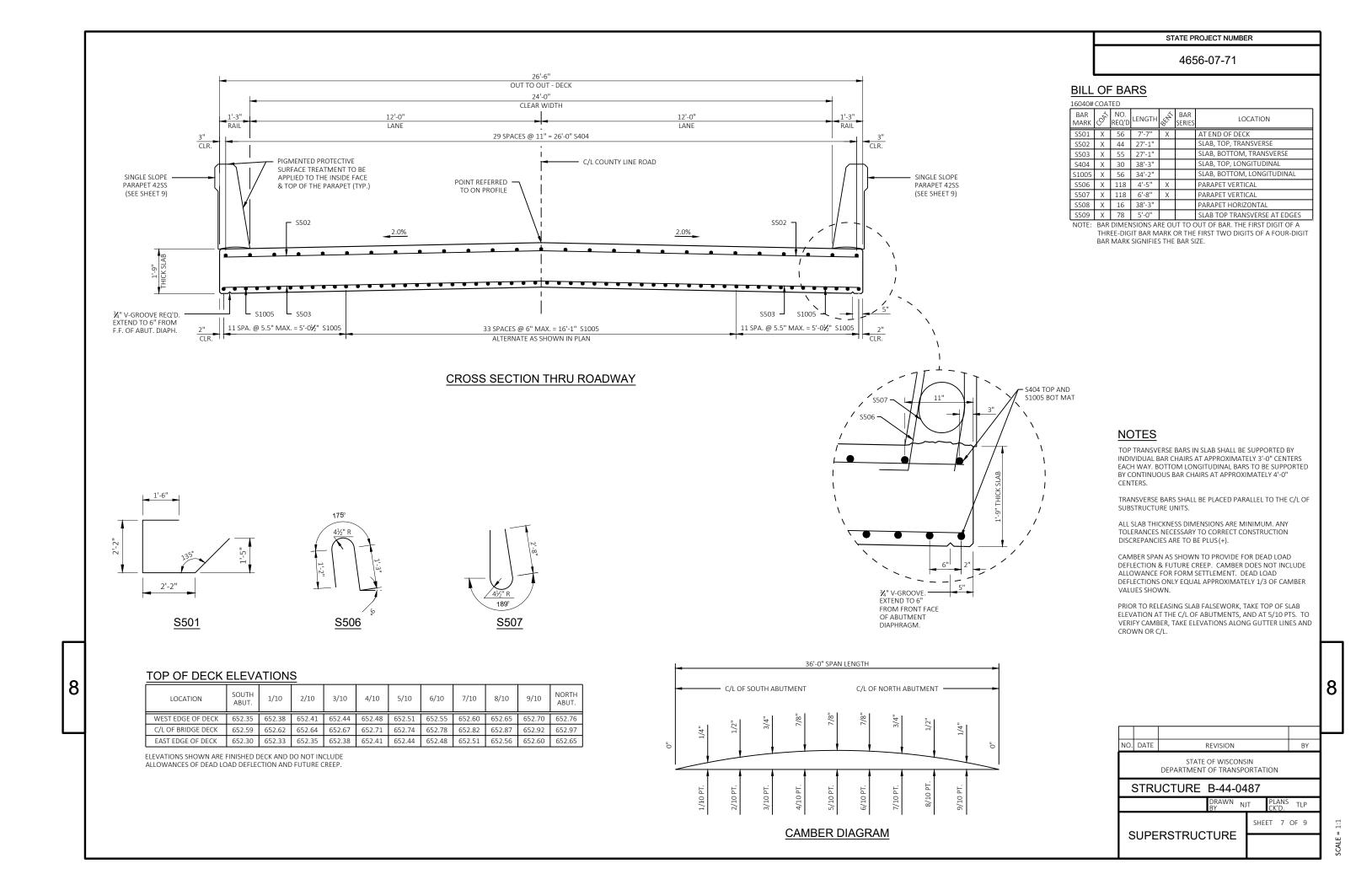
REVISION STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURE B-44-0487 SHEET 2 OF 9 CROSS SECTION. QUANTITIES, & NOTES

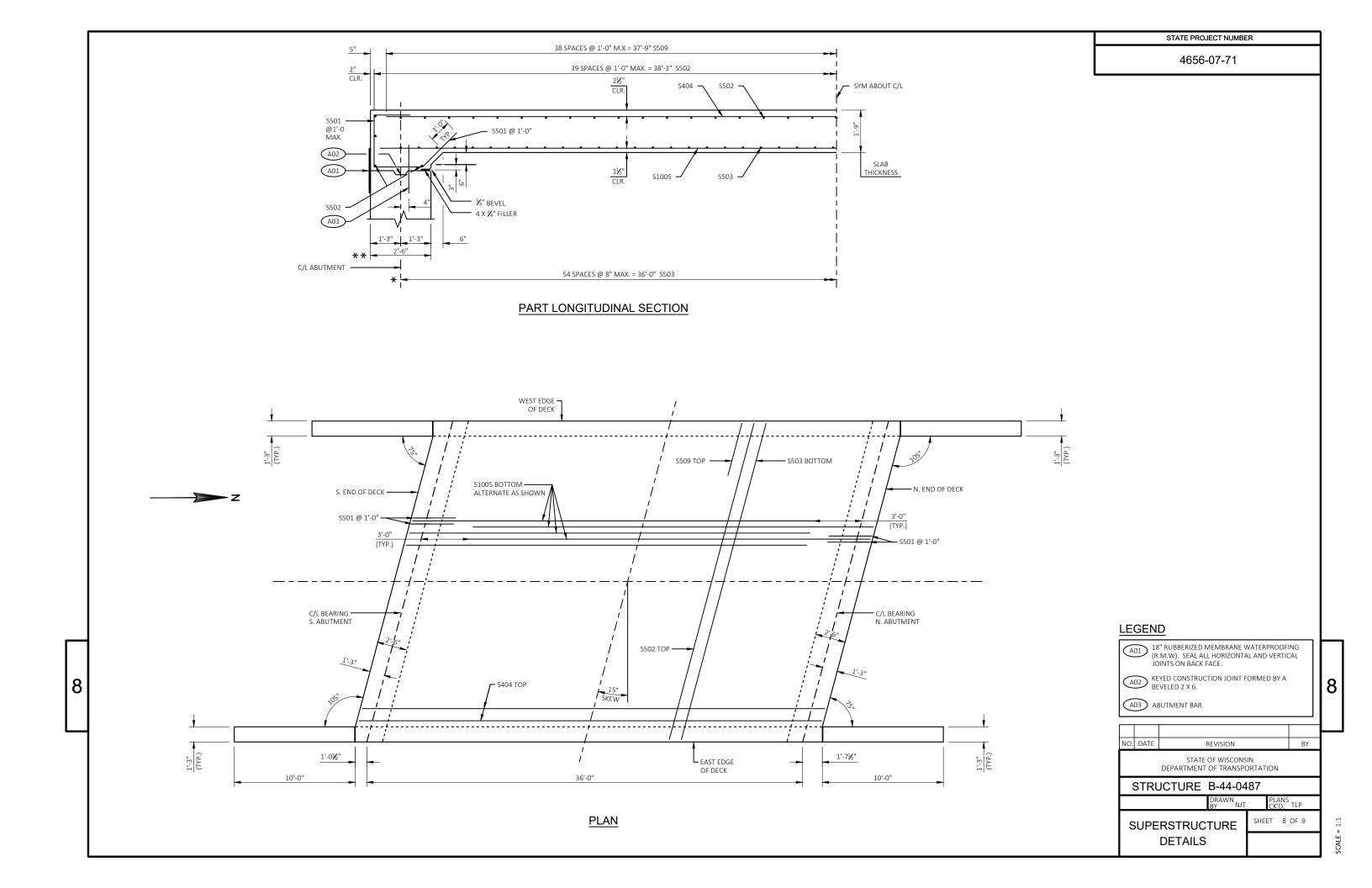


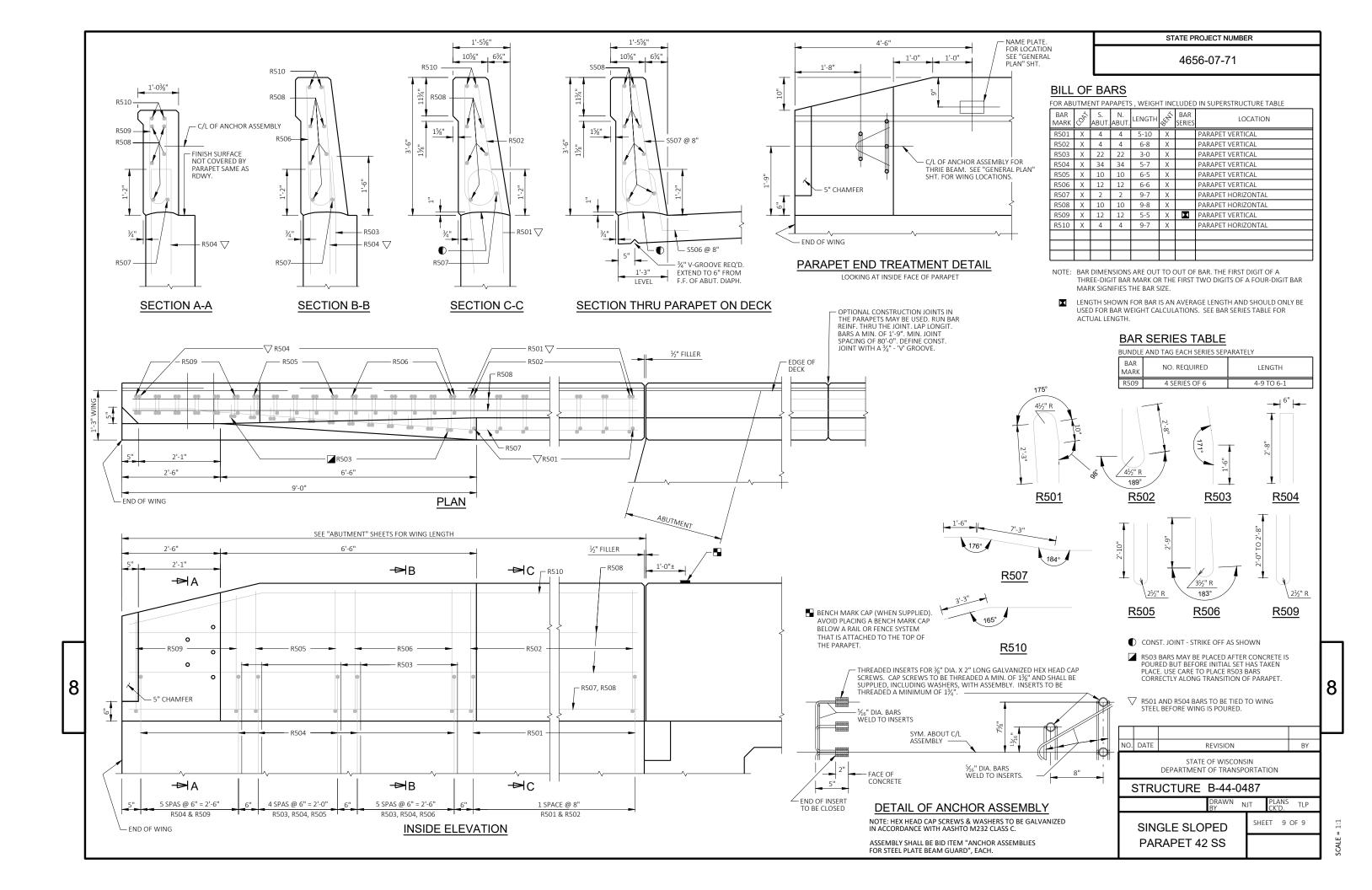












#### DIVISION 1 - LCL-COUNTYLINE

DIVISION I	- LCL-COOM TEIME											
				AREA (SF)		INCREN	MENTAL VOL (CY) (UNAD.	JUSTED)		CUMULATIVE VOL (CY)		
STATION	REAL STATION	DISTANCE	СИТ	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	СИТ	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL	MASS ORDINATE	
						NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8	
09+28	928.00	0.00	32.45	8.94	0.05	0	0	0	0	0	0	
09+38	938.00	10.00	31.55	8.71	5.71	12	3	1	12	1	8	
09+50	950.00	12.00	29.93	8.71	8.55	14	4	3	26	5	14	
09+53.78	953.78	3.78	30.20	8.71	8.92	4	1	1	30	6	16	
09+72.494	972.49	18.71	29.55	8.71	57.11	21	6	23	51	35	2	
09+78.925	978.93	6.43	14.86	4.13	15.91	5	2	9	56	46	-6	
				COLUMN	TOTALS	56	16	37				

#### DIVISION 2 - LCL-COUNTYLINE

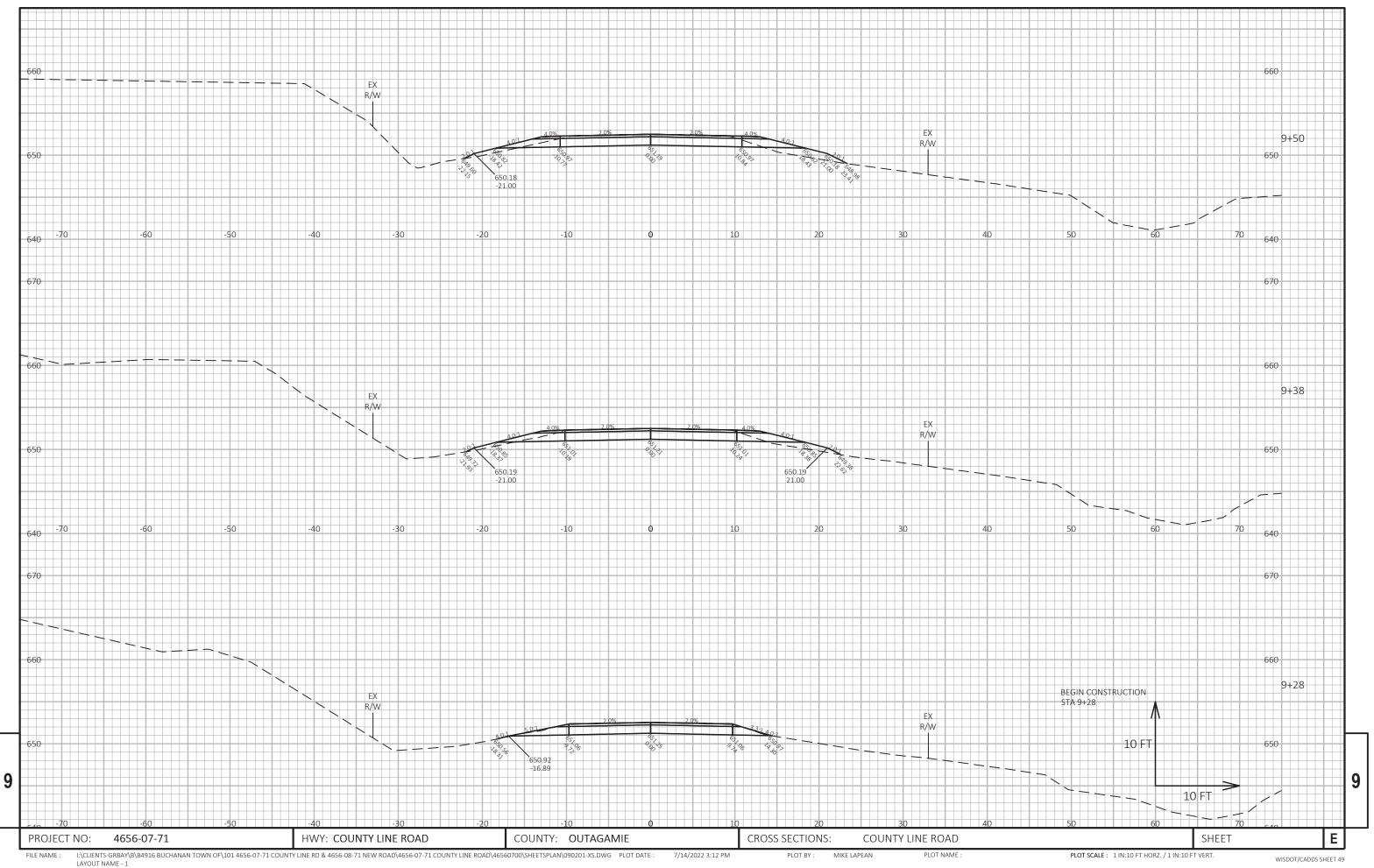
			AREA (SF)			INCREM	MENTAL VOL (CY) (UNAD.	JUSTED)	CUMULATIVE VOL (CY)		
STATION	REAL STATION	DISTANCE	СИТ	SALVAGED/UNUSABLE	FILL	CUT	SALVAGED/UNUSABLE	FILL	CUT	EXPANDED FILL	MASS ORDINATE
				PAVEMENT MATERIAL			PAVEMENT MATERIAL		1.00	1.25	
						NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
10+31.082	1031.08	0.00	16.27	3.90	7.97	0	0	0	0	0	0
10+37.513	1037.51	6.43	29.58	8.71	20.60	5	2	3	5	4	-1
10+50	1050.00	12.49	28.85	8.94	17.10	14	4	9	19	15	-2
10+62	1062.00	12.00	30.42	9.17	13.83	13	4	7	32	24	-2
10+72	1072.00	10.00	30.90	9.17	0.12	11	3	3	43	28	3
				COLUMN	TOTALS	43	13	22	-		

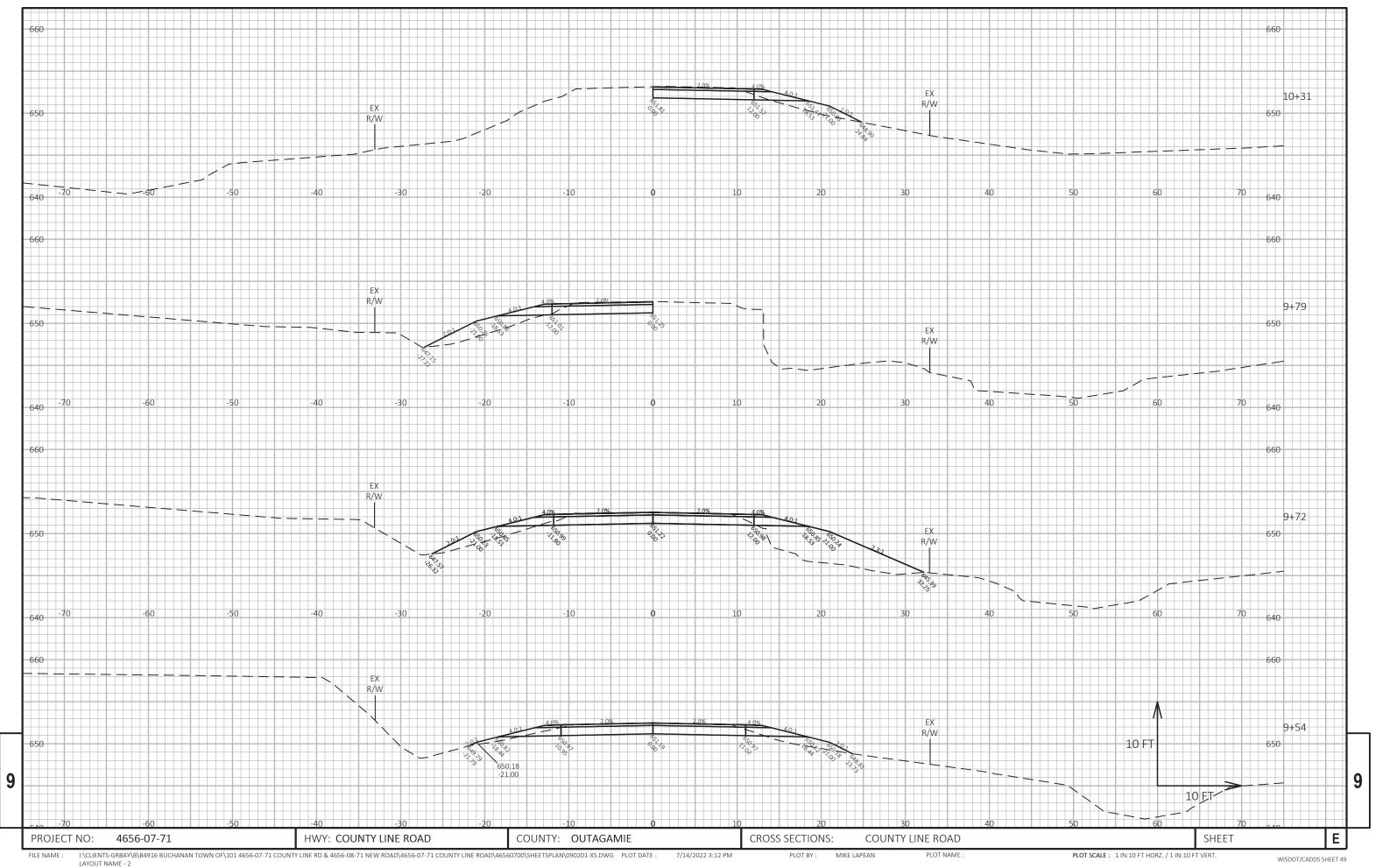
Notes:		
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL	
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS	
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME	
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: [CUT - SALVAGED PAVT - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL - EXPANDED ROCK) * FILL FACTOR)]	EBS AND MARSH EXC USED OUTSIDE 1:1 IN FILL SLOPES

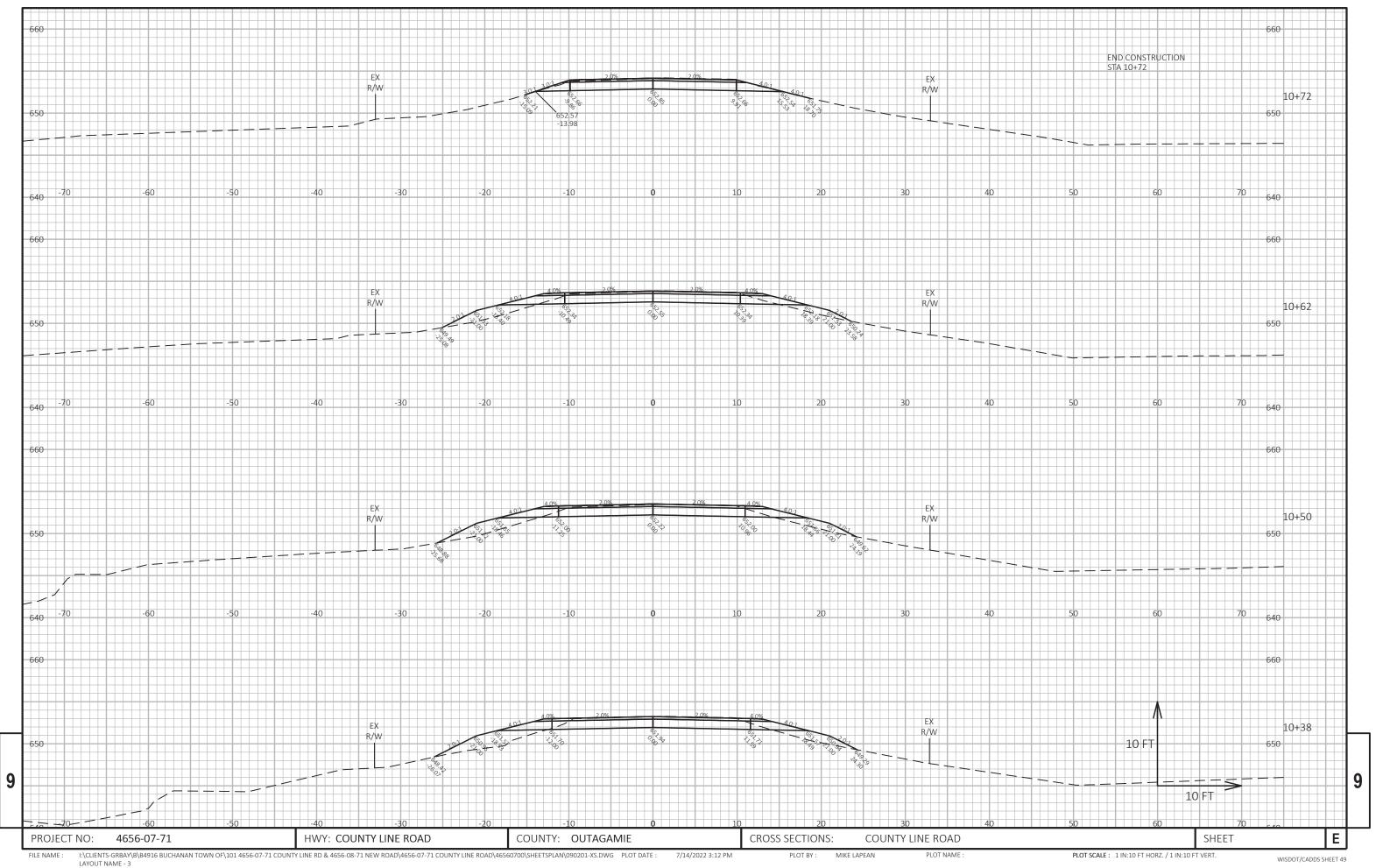
9

COUNTY: OUTAGAMIE PROJECT NO: 4656-07-71 HWY: COUNTY LINE ROAD EARTHWORK QUANTITIES I:\CLIENTS-GRBAY\B\B4916 BUCHANAN TOWN OF\101 4656-07-71 COUNTY LINE RD & 4656-08-71 NEW ROAD\4656-07-71 COUNTY LINE ROAD\46560700\\$HEETSPLAN\090101-EW.DWG PLOT DATE:
LAYOUT NAME - 01 PLOT BY: MIKE LAPEAN SHEET

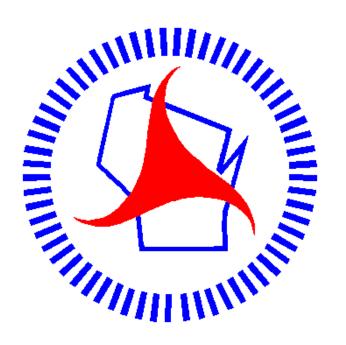
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Notes



# Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov

## Jan 10, 2023 ORDER OF SHEETS PROJECT ID: Section No. 6 Section No. 56-08-7 Section No. Section No. TOTAL SHEETS = DESIGN DESIGNATION 4656-08-00 AADT A.A.D.T. D.H.V. D.D. DESIGN SPEED OUTAGAMIE **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

Typical Sections and Details

Estimate of Quantities

Plan and Profile

Cross Sections

PROJECT LOCATION

2023 = 49

= 60/40 = 10%

= 25 MPH

= N/A

Miscellaneous Quantities

Standard Detail Drawings

Computer Earthwork Data

## STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

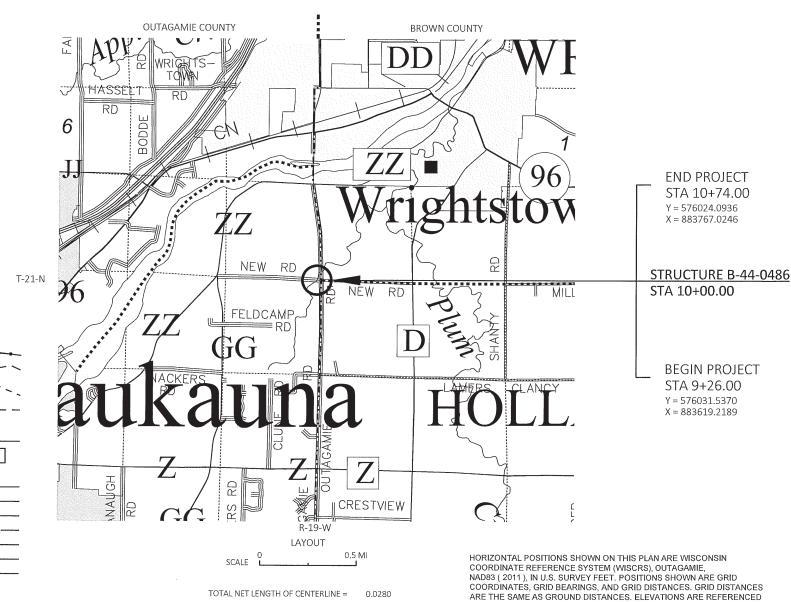
PLAN OF PROPOSED IMPROVEMENT

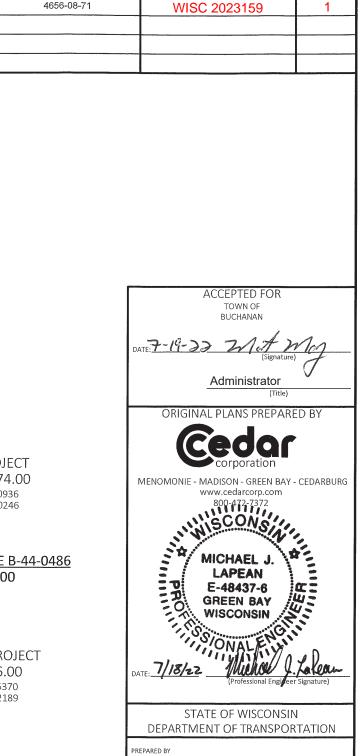
## T BUCHANAN, NEW ROAD

**BRANCH OF PLUM CREEK BRIDGE** 

**LOC STR OUTAGAMIE** 

STATE PROJECT NUMBER 4656-08-71





FEDERAL PROJECT

CONTRACT

PROJECT

STATE PROJECT

4656-08-71

Surveyor	CEDAR CORPORATION
Designer	CEDAR CORPORATION
Project Manager	JODI JAROSINSKI, P.E.
Regional Examiner	N/A
Regional Supervisor	BRIAN EDWARDS, .P.E.

ATE:\_\_\_7/25/2022

Ε

WOODED OR SHRUB AREA

FILE NAME: I:\CLIENTS-GRBAY\B\B4916 BUCHANAN TOWN OF\101 4656-07-71 COUNTY LINE RD & 4656-08-71 NEW ROAD\4656-08-71 NEW ROAD BRIDGE\46560800\\$HEETSPLAN\010101-TI.DWG PLOT DATE:

**PROFILE** 

GRADE LINE

ORIGINAL GROUND

GRADE ELEVATION

UTILITIES

FIBER OPTIC

SANITARY SEWER

STORM SEWER

UTILITY PEDESTAL

TELEPHONE POLE

POWER POLE

CULVERT (Profile View)

MARSH OR ROCK PROFILE

(To be noted as such)

TO NAVD 88 (1991), GPS DERIVED FLEVATIONS ARE BASED ON GEOID 12A

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

#### **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

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

D.O.T. BRIDGE BENCHMARK MONUMENT TO BE FURNISHED BY THE STATE AND PLACED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER.

#### STANDARD ABBREVIATIONS

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

#### **DNR CONTACT**

DNR NORTHEAST REGIONAL OFFICE TOWN OF BUCHANAN 2984 SHAWANO AVENUE N178 COUNTY ROAD N GREEN BAY, WI 54313 APPLETON, WI 54915

ATTN: MATTHEW D. SCHAEVE ATTN: MAGGIE MAHONEY, TOWN ADMINISTRATOR

(920) 366-1544 PH: (920) 734-8599

EMAIL: matthew.schaeve@wisconsin.gov EMAIL: MaggieM@townofbuchanan.org

#### DESIGN CONSULTANT CONTACT UTILITY CONTACTS

CEDAR CORPORATION 1695 BELLEVUE STREET AT&T WISCONSIN GREEN BAY, WI 54311

APPLETON, WI 54911 ATTN: MICHAEL J. LAPEAN, P.E.

(920)785-7314 EMAIL: mike.lapean@cedarcorp.com EMAIL: kw715w@att.com

#### WISDOT PROJECT MANAGER

WISDOT NE REGION 944 VANDERPERREN WAY GREEN BAY, WI 54304 GREEN BAY, WI 54304 ATTN: RYAN VOSKUIL ATTN: JODI JAROSINSKI, P.E.

(920) 360-2351 EMAIL: ryan.voskuil@wisconsinpublicservice.com EMAIL: jodi.jarosinski@dot.wi.gov

#### **COMMUNICATIONS**

MUNICIPALITY

## 221 WEST WASHINGTON STREET

### ATTN: KYLE WEBER PH: (920) 221-5969

#### **ELECTRIC**

WISCONSIN PUBLIC SERVICE 2850 SOUTH ASHLAND AVENUE

PH: (920) 617-5150

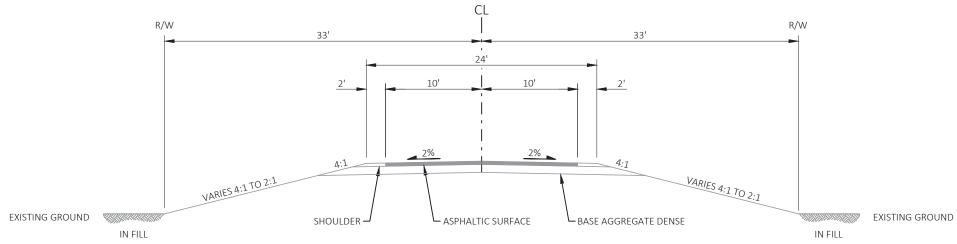
#### **RUNOFF COEFFICIENT TABLE**

		HYDROLOGIC SOIL GROUP										
		А		B SLOPE RANGE (PERCENT)			C SLOPE RANGE (PERCENT)			D SLOPE RANGE (PERCENT)		
	SLOPE	RANGE (PE	RCENT)									
LAND USE:	0 - 2	2 - 6	6 & OVER	0 - 2	2 - 6	6 & OVER	0 - 2	2 - 6	6 & OVER	0 - 2	2 - 6	6 & OVER
ROW CROPS	.08	.16	.22	.12	.20	.27	.15	.24	.33	.19	.28	.38
	.22	.30	.38	.26	.34	.44	.30	.37	.50	.34	.41	.56
MEDIAN STRIP-TURF	.19	.20	.24	.19	.22	.26	.20	.23	.30	.20	.25	.30
	.24	.26	.30	.25	.28	.33	.26	.30	.37	.27	.32	.40
SIDE SLOPE TURF			.25			.27			.28			.30
			.32			.34			.36			.38
PAYMENT:								•			•	
ASPHALT:						.70 -	.95					
CONCRETE:						.80 -	.95					
BRICK:						.70 -	.80					
DRIVES, WALKS:						.75 -	.85					
ROOFS:						.75 -	.95					
GRAVEL ROADS, SHOULDERS:						.40 -	.60					

TOTAL PROJECT AREA = 0.23 ACRES

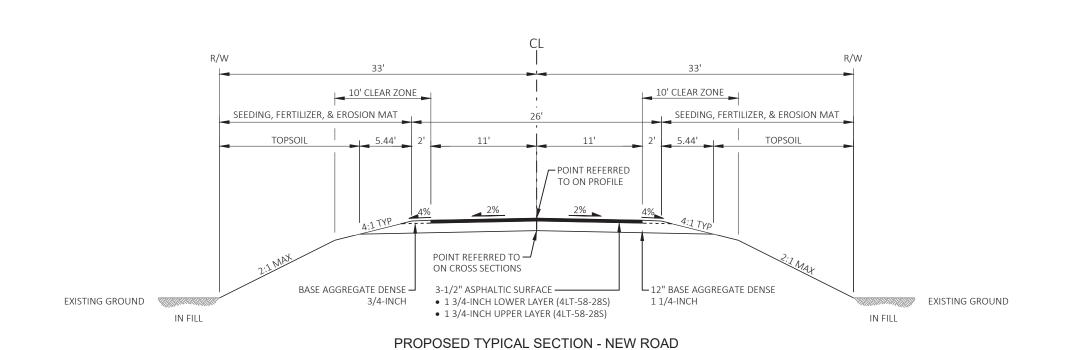
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.16 ACRES

Ε PROJECT NO: 4656-08-71 HWY: NEW ROAD COUNTY: OUTAGAMIE **GENERAL NOTES** SHEET I:\CLIENTS-GRBAY\B\B4916 BUCHANAN TOWN OF\101 4656-07-71 COUNTY LINE RD & 4656-08-71 NEW ROAD\4656-08-71 NEW ROAD BRIDGE\46560800\SHEETSPLAN\020101-GN.DWG PLOT DATE: PLOT BY: PLOT NAME FILE NAME : ##########



#### EXISTING TYPICAL SECTION - NEW ROAD

STA 9+26.00 TO STA 9+86.24 STA 10+13.14 TO STA 10+74.00



STA 9+26.00 TO STA 9+80.73 STA 10+19.27 TO STA 10+74.00

COUNTY: OUTAGAMIE

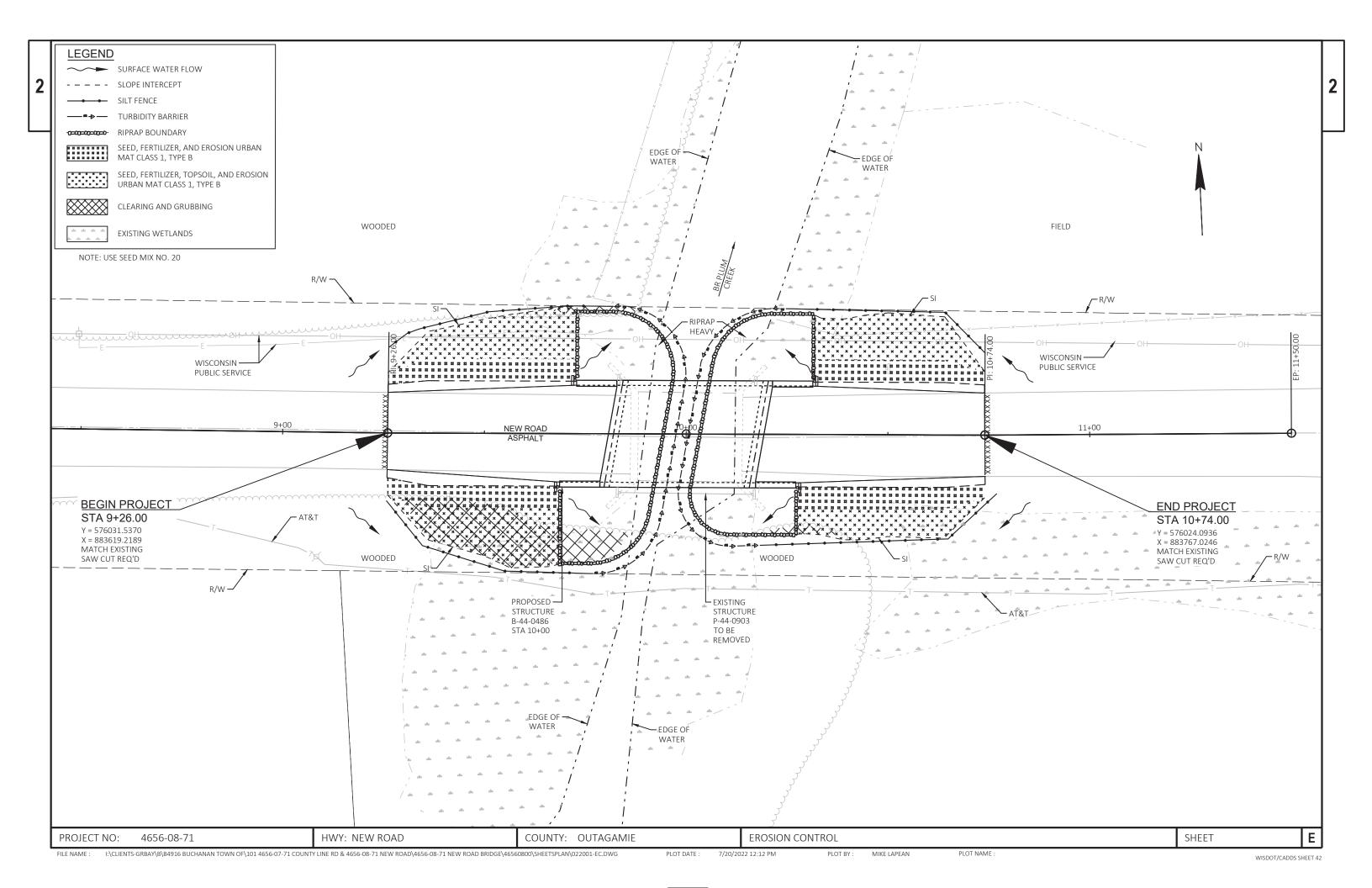
HWY: NEW ROAD

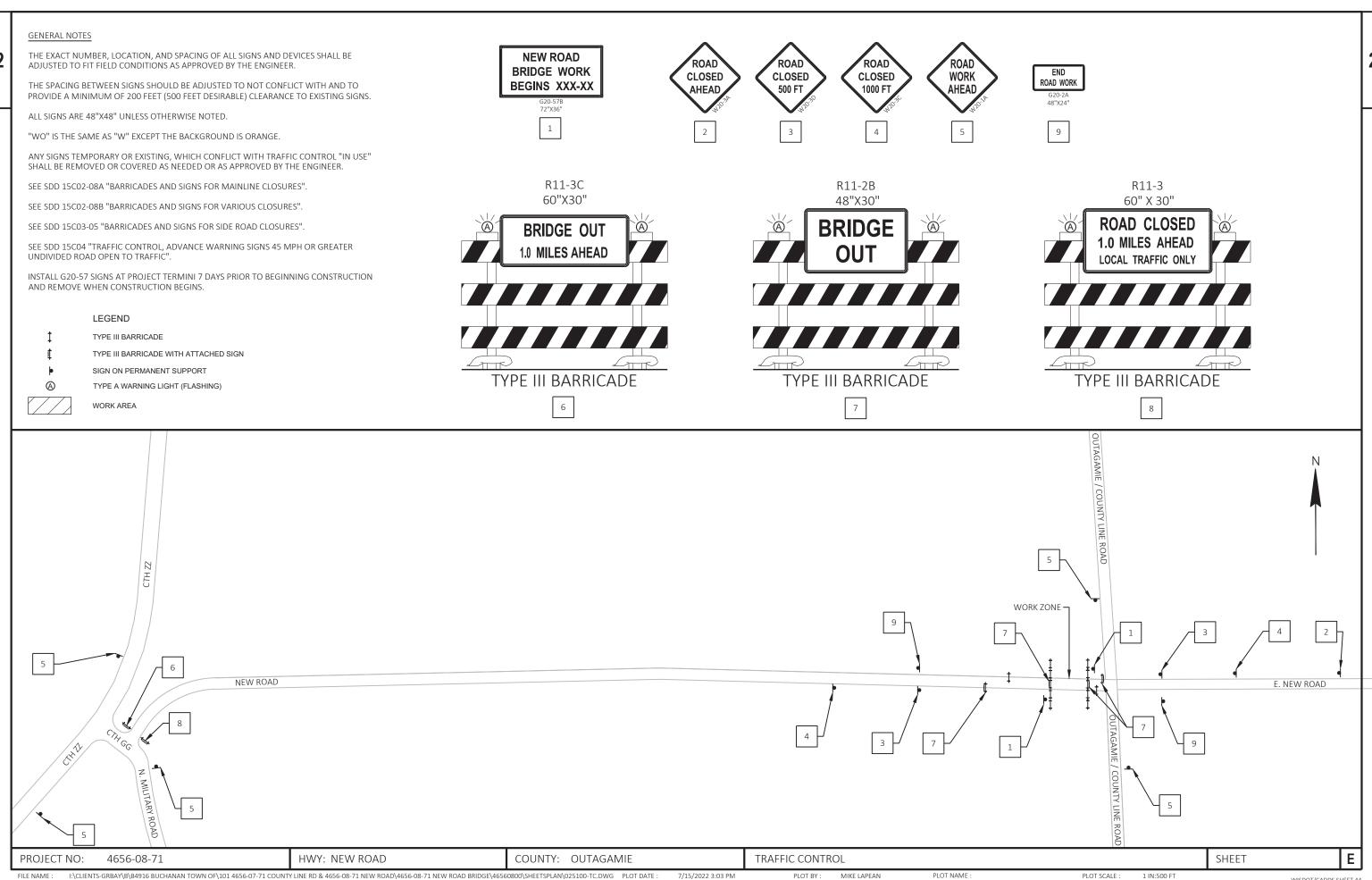
PROJECT NO:

4656-08-71

TYPICAL SECTIONS

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Page 1

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					4656-08-71	
Line	Item	Item Description	Unit	Total	Qty	
0002	201.0105	Clearing	STA	2.000	2.000	
0004	201.0205	Grubbing	STA	2.000	2.000	
8000	203.0250	Removing Structure Over Waterway Remove Debris (structure) 02. B-44-0486	EACH	1.000	1.000	
0010	204.0170	Removing Fence	LF	53.000	53.000	
0014	205.0100	Excavation Common	CY	97.000	97.000	
0018	206.1001	Excavation for Structures Bridges (structure) 02. B-44-0486	EACH	1.000	1.000	
0020	208.0100	Borrow	CY	57.000	57.000	
0022	210.1500	Backfill Structure Type A	TON	200.000	200.000	
0026	213.0100	Finishing Roadway (project) 02. 4656-08-71	EACH	1.000	1.000	
0028	305.0110	Base Aggregate Dense 3/4-Inch	TON	9.000	9.000	
0030	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	246.000	246.000	
0032	455.0605	Tack Coat	GAL	19.000	19.000	
0034	465.0105	Asphaltic Surface	TON	55.000	55.000	
0036	502.0100	Concrete Masonry Bridges	CY	126.000	126.000	
0038	502.3200	Protective Surface Treatment	SY	137.000	137.000	
0042	505.0400	Bar Steel Reinforcement HS Structures	LB	3,020.000	3,020.000	
0044	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	15,120.000	15,120.000	
0046	513.4061	Railing Tubular Type M	LF	117.000	117.000	
0048	516.0500	Rubberized Membrane Waterproofing	SY	16.000	16.000	
0050	550.1100	Piling Steel HP 10-Inch X 42 Lb	LF	560.000	560.000	
0054	606.0300	Riprap Heavy	CY	170.000	170.000	
0056	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	160.000	160.000	
0060	618.0100	Maintenance And Repair of Haul Roads (project) 02. 4656-08-71	EACH	1.000	1.000	
0062	619.1000	Mobilization	EACH	0.500	0.500	
0064	624.0100	Water	MGAL	4.000	4.000	
0066	625.0100	Topsoil	SY	190.000	190.000	
0068	628.1504	Silt Fence	LF	275.000	275.000	
0070	628.1520	Silt Fence Maintenance	LF	275.000	275.000	
0072	628.1905	Mobilizations Erosion Control	EACH	3.000	3.000	
0074	628.1910	Mobilizations Emergency Erosion Control	EACH	3.000	3.000	
0076	628.2008	Erosion Mat Urban Class I Type B	SY	305.000	305.000	
0078	628.6005	Turbidity Barriers	SY	246.000	246.000	
0800	629.0210	Fertilizer Type B	CWT	0.200	0.200	
0082	630.0120	Seeding Mixture No. 20	LB	9.000	9.000	
0084	630.0200	Seeding Temporary	LB	9.000	9.000	
0086	630.0500	Seed Water	MGAL	5.000	5.000	
8800	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	4.000	4.000	
0090	637.2230	Signs Type II Reflective F	SF	12.000	12.000	
0094	638.2602	Removing Signs Type II	EACH	6.000	6.000	
0096	638.3000	Removing Small Sign Supports	EACH	6.000	6.000	
0098	642.5001	Field Office Type B	EACH	0.500	0.500	
0100	643.0420	Traffic Control Barricades Type III	DAY	960.000	960.000	
0102	643.0705	Traffic Control Warning Lights Type A	DAY	1,440.000	1,440.000	
0104	643.0900	Traffic Control Signs	DAY	1,080.000	1,080.000	
0106	643.1000	Traffic Control Signs Fixed Message	SF	36.000	36.000	
0108	643.5000	Traffic Control	EACH	0.500	0.500	
0110	645.0111	Geotextile Type DF Schedule A	SY	30.000	30.000	
0112	645.0120	Geotextile Type HR	SY	305.000	305.000	
0114	650.4500	Construction Staking Subgrade	LF	110.000	110.000	

11/16/2022 15:41:54

Estimate Of Quantities E	By Plan Sets
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4656-08-71

Line	Item	Item Description	Unit	Total	Qty
0116	650.5000	Construction Staking Base	LF	110.000	110.000
0120	650.6501	Construction Staking Structure Layout (structure) 02. B-44-0486	EACH	1.000	1.000
0124	650.9911	Construction Staking Supplemental Control (project) 02. 4656-08-71	EACH	1.000	1.000
0126	650.9920	Construction Staking Slope Stakes	LF	94.000	94.000
0128	690.0150	Sawing Asphalt	LF	40.000	40.000
0130	715.0502	Incentive Strength Concrete Structures	DOL	760.000	760.000
0132	999.2000.S	Installing and Maintaining Bird Deterrent System (station) 01. 10+00	EACH	1.000	1.000
0134	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	100.000	100.000
0136	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	100.000	100.000
0138	SPV.0090	Special 01. Flashing Stainless Steel	LF	77.000	77.000

PLOT SCALE :

						201.0105 CLEARING	201.0205 GRUBBING
CATEGORY	STATION	ТО	STATION	OFFSET	LOCATION	STA	STA
0010	9+30	-	10+40	RT	NEW ROAD	2	2
					TOTAL 0010	2	2

-copy	STATION TO STATIONA	OFFCFT	LOCATION	201.0105 CLEARING	201.0205 GRUBBING
EGORY	STATION TO STATION	OFFSET	LOCATION	STA	STA
010	9+30 - 10+40	RT	NEW ROAD	2	2
			TOTAL 0010	2	2

				5.0100   EXCAVATION (1)	SALVAGED/UNUSABLE	AVAILABLE		EXPANDED FILL (13)			208.0100	
	FROM/TO		CUT	EBS EXCAVATION	PAVEMENT MATERIAL	MATERIAL	UNEXPANDED		MASS ORDINATE +/-		BORROW	
DIVISION	STATION	LOCATION	(2)	(3)	(4)	(5)	FILL	1.25	(14)	WASTE	(16)	COMMENT
DIVISION 1												
NEW ROAD	09+26/09+72.80	WEST APPROACH	44	0	23	21	62	78	-57	0	57	
DIVISION 1 SUBTOTAL			44	0	23	21	62	78	-57	0	57	
DIVISION 2												
NEW ROAD	10+27.20/10+74	EAST APPROACH	53	0	10	43	34	43	1	1	0	
DIVISION 2 SUBTOTAL			53	0	10	43	34	43	1	1	0	-
GRAND TOTAL			97	0	33	64	96	120	-56	1	57	
	TOTAL CO	OMMON EXC		97				-	•		•	-

#### NOTES:

- (1) COMMON EXCAVATION IS THE SUM OF THE CUT AND EBS EXCAVATION COLUMNS. ITEM NUMBER 205.0100
- (2) SALVAGED/UNSUABLE PAVEMENT MATERIAL IS INCLUDED IN CUT.
- (3) EBS EXCAVATION TO BE BACKFILLED WITH BASE AGGREGATE DENSE 1 1/4-INCH.
- (4) SALVAGED/UNUSABLE PAVEMENT MATERIAL
- 5) AVAILABLE MATERIAL = CUT SALVAGED/UNUSUABLE PAVEMENT MATERIAL
- (13) EXPANDED FILL FACTOR = 1.25
- EXPANDED FILL = UNEXPANDED FILL \* FILL FACTOR
- (14) THE MASS ORDINATE + OR QTY CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.
- (15) FACTORS USED TO COMPUTE ANTICIPATED WASTE AND THE COMPUTED WASTE VOLUME IDENTIFIED ARE FOR GENERAL INFORMATION ONLY.
- (16) CONTRACTOR MAY OBTAIN SUITABLE BORROW MATERIAL FROM OTHER DIVISIONS OR EXCAVATED MATERIAL UNDER BID ITEM EXCAVATION FOR STRUCTURES IN ACCORDANCE WITH STANDARD SPEC 208.2.2(2), AND MEASURED ACCORDING TO 208.4.1.

#### **BASE AGGREGATES**

CATEGORY	STATION	TO	STATION	LOCATION	305.0110  BASE  AGGREGATE  DENSE 3/4-INCH  TON	305.0120 BASE AGGREGATE DENSE 1 1/4- INCH TON	624.0100 WATER MGAL	REMARKS
CATEGORY	STATION	10	STATION	LOCATION	TON	TON	IVIGAL	KEIVIAKKS
0010 0010	9+26.00 10+19.27	-	9+80.73 10+74.00	NEW ROAD NEW ROAD	5 4	123 123	2 2	
				TOTAL 0010	9	246	4	

PROJECT NO: 4656-08-71 HWY: NEW ROAD COUNTY: OUTAGAMIE MISCELLANEOUS QUANTITIES SHEET I:\CLIENTS-GRBAY\B\B4916 BUCHANAN TOWN OF\101 4656-07-71 COUNTY LINE RD & 4656-08-71 NEW ROAD\4656-08-71 NEW ROAD BRIDGE\46560800\SHEETSPLAN\030101-MQ.DWG PLOT DATE: LAYOUT NAME - 01 PLOT NAME :

PLOT BY: MIKE LAPEAN

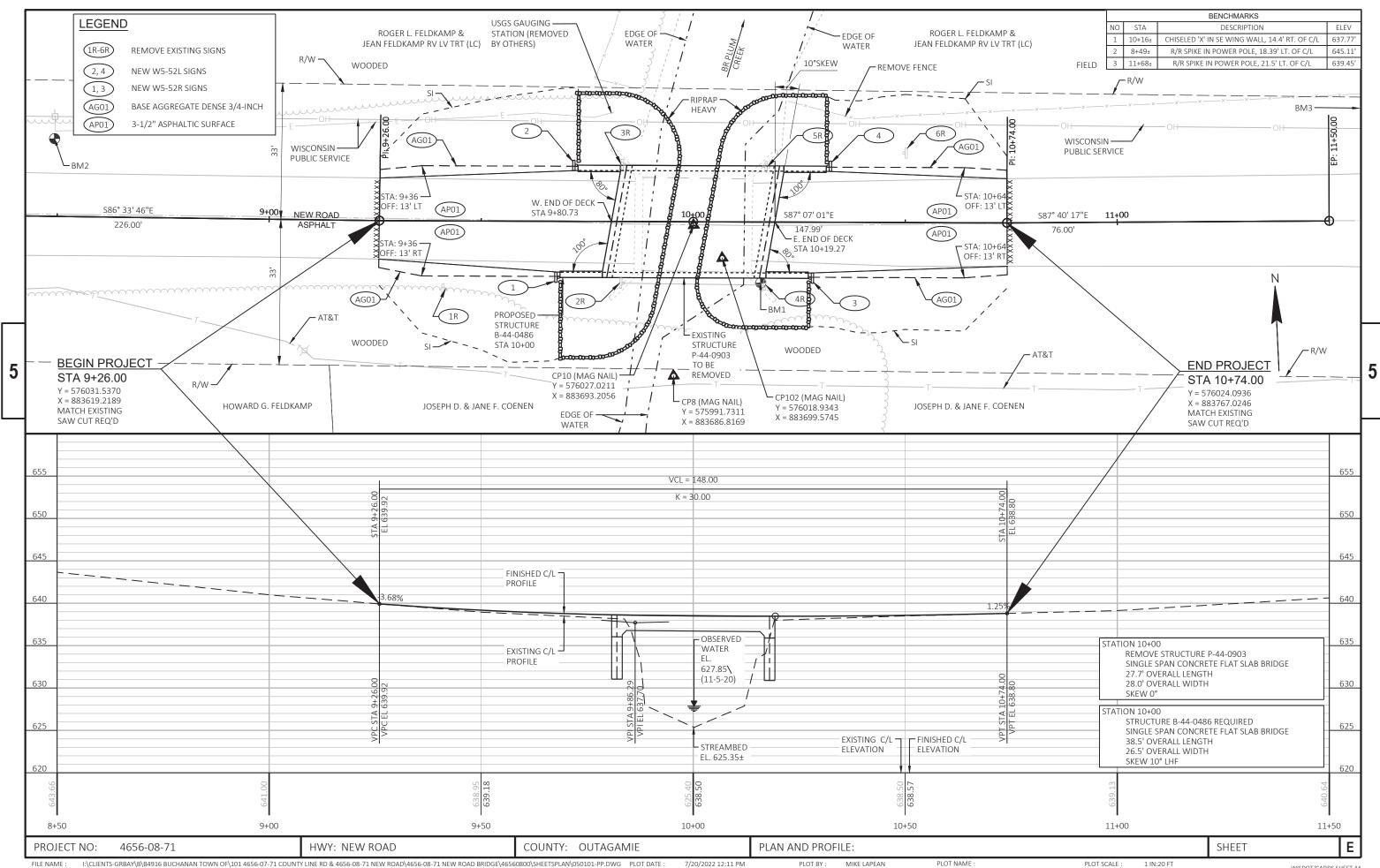
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				ASPHALTIC										
			TACK COAT	SURFACE										
CATEGORY	STATION TO STATION	LOCATION	GAL	TON		REMARKS								
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0010	10+19.27 - 10+74.00	NEW ROAD	10	28										
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										SILT FENCE	EROSION	EROSION	TURBIDITY	
		AND REPAI							SILT FENCE	MAINTENANCE	CONTROL	CONTROL	BARRIERS	
		HAUL ROA			CATEGORY	STATION TO	STATION OFFSET	LOCATION	LF	LF	EACH	EACH	SY	REMARKS
		(PROJECT)			CATEGORY	317111011 10	STATION STISET	LOC/ THO IV		Li	2,1011	E/ (CIT	31	TENVITO
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CATEGORY	LOCATION	EACH			0010		10+74 LT & RT	NEW ROAD	110	110	1	1	123	
							10+74 LT & RT					_		
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					0010		10+74 LT & RT	NEW ROAD	110	110	1	_	123	
	PROJECT	1			0010		10+74 LT & RT	NEW ROAD UNDISTRIBUTED	110 55	110 55	1 1	1 1	123	
	PROJECT	1			0010		10+74 LT & RT	NEW ROAD UNDISTRIBUTED	110 55	110 55	1 1	1 1	123	
	PROJECT	1			0010		10+74 LT & RT	NEW ROAD UNDISTRIBUTED	110 55	110 55	1 1	1 1	123	
	PROJECT	1			0010 0010	10+00 -	10+74 LT & RT	NEW ROAD UNDISTRIBUTED	110 55	110 55	1 1	1 1	123	
	PROJECT	1			0010 0010		10+74 LT & RT	NEW ROAD UNDISTRIBUTED	110 55	110 55	1 1	1 1	123	
	PROJECT	1			0010 0010	10+00 -	10+74 LT & RT	NEW ROAD UNDISTRIBUTED	110 55	110 55	1 1	1 1	123	
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	PROJECT	1		625.0100	0010 0010 <u>Ri</u>	10+00 -	10+74 LT & RT	NEW ROAD UNDISTRIBUTED TOTAL 0010	110 55 275	110 55	1 1	1 1	123	
	PROJECT	1		625.0100	0010 0010 <u>RI</u> 628.2008	10+00 -	10+74 LT & RT	NEW ROAD UNDISTRIBUTED	110 55	110 55	1 1	1 1	123	
	PROJECT	1		625.0100	0010 0010 <u>RI</u> 628.2008 EROSION MAT	10+00	10+74 LT & RT	NEW ROAD UNDISTRIBUTED TOTAL 0010	110 55 275	110 55	1 1	1 1	123	
	PROJECT	1			0010 0010 RI 628.2008 EROSION MAT URBAN CLASS I	10+00 -  SSTORATION  629.0210  FERTILIZER TYPE	10+74 LT & RT 630.0120 SEEDING	NEW ROAD UNDISTRIBUTED  TOTAL 0010  630.0200  SEEDING	110 55 275 630.0500	110 55	1 1	1 1	123	
0030	PROJECT TOTAL 0030	1		TOPSOIL	0010 0010 RI 628.2008 EROSION MAT URBAN CLASS I TYPE B	10+00 -  STORATION  629.0210  FERTILIZER TYPE  B	10+74 LT & RT  630.0120  SEEDING MIXTURE NO. 20	NEW ROAD UNDISTRIBUTED  TOTAL 0010  630.0200  SEEDING TEMPORARY	110 55 275 630.0500 SEED WATER	275	3	1 1	123	
	PROJECT TOTAL 0030	1			0010 0010 RI 628.2008 EROSION MAT URBAN CLASS I	10+00 -  SSTORATION  629.0210  FERTILIZER TYPE	10+74 LT & RT 630.0120 SEEDING	NEW ROAD UNDISTRIBUTED  TOTAL 0010  630.0200  SEEDING	110 55 275 630.0500	275	1 1	1 1	123	
0030	PROJECT TOTAL 0030	1		TOPSOIL	0010 0010 RI 628.2008 EROSION MAT URBAN CLASS I TYPE B	10+00 -  STORATION  629.0210  FERTILIZER TYPE  B	10+74 LT & RT  630.0120  SEEDING MIXTURE NO. 20	NEW ROAD UNDISTRIBUTED  TOTAL 0010  630.0200  SEEDING TEMPORARY	110 55 275 630.0500 SEED WATER	275	3	1 1	123	
0030	PROJECT TOTAL 0030	1 1 N OFFSET		TOPSOIL	0010 0010 RI 628.2008 EROSION MAT URBAN CLASS I TYPE B	10+00 -  STORATION  629.0210  FERTILIZER TYPE  B	10+74 LT & RT  630.0120  SEEDING MIXTURE NO. 20	NEW ROAD UNDISTRIBUTED  TOTAL 0010  630.0200  SEEDING TEMPORARY	110 55 275 630.0500 SEED WATER	275	3	1 1	123	
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0030 <u>CATEGOR</u> 0010 0010	PROJECT  TOTAL 0030  Y STATION TO STATION  9+26.00 - 9+68.66  9+26.00 - 9+72.80	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	LOCATION  NEW ROAD  NEW ROAD	TOPSOIL SY 49 46	0010 0010 628.2008 EROSION MAT URBAN CLASS I TYPE B SY 74 73	ESTORATION  629.0210  FERTILIZER TYPE  B  CWT  0.05 0.05	10+74 LT & RT  630.0120  SEEDING MIXTURE NO. 20 LB  2 2 2	NEW ROAD UNDISTRIBUTED  TOTAL 0010  630.0200  SEEDING TEMPORARY LB  2 2 2	110 55 275 630.0500 SEED WATER MGAL 1	275	3	1 1	123	
0030 CATEGOR 0010 0010 0010	PROJECT  TOTAL 0030  Y STATION TO STATION  9+26.00 - 9+68.66  9+26.00 - 9+72.80  10+27.20 - 10+74.0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	LOCATION  NEW ROAD  NEW ROAD  NEW ROAD	TOPSOIL SY 49 46 32	0010 0010 628.2008 EROSION MAT URBAN CLASS I TYPE B SY 74 73 59	10+00 -  ESTORATION  629.0210  FERTILIZER TYPE  B  CWT  0.05 0.05 0.04	630.0120  SEEDING MIXTURE NO. 20 LB  2 2 2 2	NEW ROAD UNDISTRIBUTED  TOTAL 0010  630.0200  SEEDING TEMPORARY LB  2 2 2 2	110 55 275 630.0500 SEED WATER MGAL 1 1	275	3	1 1	123	
0030 CATEGOR 0010 0010 0010 0010	PROJECT  TOTAL 0030  Y STATION TO STATION  9+26.00 - 9+68.66  9+26.00 - 9+72.80  10+27.20 - 10+74.0  10+31.34 - 10+74.0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	LOCATION  NEW ROAD  NEW ROAD  NEW ROAD  NEW ROAD  NEW ROAD	TOPSOIL SY 49 46 32 46	0010 0010 628.2008 EROSION MAT URBAN CLASS I TYPE B SY 74 73 59 71	10+00 -  ESTORATION  629.0210  FERTILIZER TYPE  B  CWT  0.05 0.05 0.04 0.04	10+74 LT & RT  630.0120  SEEDING MIXTURE NO. 20 LB  2 2 2 2 2 2	NEW ROAD UNDISTRIBUTED  TOTAL 0010  630.0200  SEEDING TEMPORARY LB  2 2 2 2 2 2	110 55 275 630.0500 SEED WATER MGAL 1 1 1	275	3	1 1	123	
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0030 CATEGOR 0010 0010 0010 0010	PROJECT  TOTAL 0030  Y STATION TO STATION  9+26.00 - 9+68.66  9+26.00 - 9+72.80  10+27.20 - 10+74.0  10+31.34 - 10+74.0	N OFFSET  6 RT 0 LT 100 RT 100 LT - UN	LOCATION  NEW ROAD  NEW ROAD  NEW ROAD  NEW ROAD  NEW ROAD  NOISTRIBUTED	TOPSOIL SY 49 46 32 46 17	0010 0010 628.2008 EROSION MAT URBAN CLASS I TYPE B SY 74 73 59 71 28	10+00 -  ESTORATION  629.0210  FERTILIZER TYPE  B  CWT  0.05 0.05 0.04 0.04 0.02	630.0120  SEEDING MIXTURE NO. 20 LB  2 2 2 2 1	NEW ROAD UNDISTRIBUTED  TOTAL 0010  630.0200  SEEDING TEMPORARY LB  2 2 2 2 1	110 55 275 630.0500 SEED WATER MGAL 1 1 1	275	3	1 1	123	

PROJECT N	IO: 4656-08-71	HWY: NEW ROAD	COUNTY: OUTAGAMIE		MISCELLANEOU	IS QUANTITIES				SHEET		E	
	:\CLIENTS-GRBAY\B\B4916 BUCHANAN TOWN OF\101 4656-07-71 COUNT	Y LINE RD & 4656-08-71 NEW ROAD\4656-08-71 NEW ROAD BRIDGE\4650	60800\SHEETSPLAN\030101-MQ.DWG PLOT DATE :	7/20/2022 12:37 PM	PLOT BY :	MIKE LAPEAN	PLOT NAME :	PLOT SCALE :	1" = 1'		WISDOT/CADDS SHE	IEET 42	

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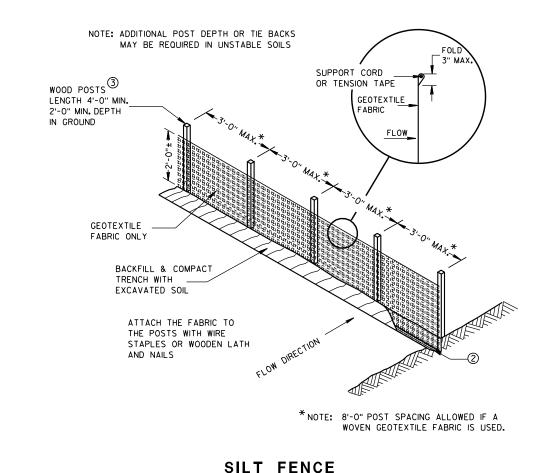
Part							<u>S</u>	IGNING										
March   Marc							POSTS WOOD 4X6-INCH X 12- FT	SIGNS TYPE II REFLECTIVE F	REMOVING SIGNS TYPE II	REMOVING SMALL SIGN SUPPORTS						:	<u>SAWCUT</u>	
Control   Fig.   1	CATEGORY	STATION	LOCATION	NUMBER	SIGN CODE	SIZE	EACH	SF	EACH	EACH	RI	EMARKS						
1	0010 0010 0010	9+68 9+72 9+84	RT LT RT	1 2 2R	W5-52R W5-52L -	12X36 12X36	1 1	3.0 3.0	1 - - 1 1	- - 1	BRIDGE BRIDGE BRIDGE	E HASH MARKS E HASH MARKS HASH MARKS*		CATEGORY	STATION	LOCATION	SAWING ASPHALT	REMARKS
1						-	-	-	1	1				0010	9+26.00	NEW ROAD	19	
10-10   10-10   11							-		1	1				0010	10+74.00	NEW ROAD		
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The content of the									- 1	- 1						TOTAL 0010	40	
Part	5010	10.00	LI	Oil						<u> </u>	VV LIGITI	ENVILL TO LONG						
NUMBER OF BARK LINE   NUMBER OF BARK LINE						TOTAL 0010	4	12.0	6	6								
								TRAF	FFIC CONTROL									
010 PROJECT 16 24 18 60 960 1,440 1,080 0 50 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0	CATEGORY	L	OCATION				WARNING LIGHTS	SIGNS	TRAFFIC CONTROL BARRICADI TYPE III	TRAFFIC CONTROL ES WARNING LIGHTS TYPE A	TRAFFIC CONTROL SI	TRAFF C CONTROL IGNS FIXED ME	FIC . SIGNS TRAFFIC :SSAGE CONTROL		S			
CONSTRUCTION STATE   CONSTRUCTION STATE   CONSTRUCTION   CONSTRU				ARNING					·					G20-57				
STATION   TO   STATION   TO   STATION   TO   STATION   LOCATION   LOCATION		Т	OTAL 0010						960	1,440	1,080	36.0	0 0.5					
CONSTRUCTION   STAKING							<u>CON</u>	NSTRUCTION STAK	IING							BIR	RD DETERRENT SYSTEM	
STAKING   STAKING   STAKING   STAKING   STAKING   STAKING   STAKING SLOPE										CO	NSTRUCTION STAKING STRUCTURE	CONSTRUCTION STAKING SUPPLEMENTAL						
SUBGRADE   STAKING BASE   (02.8-44-0486)   4656-08-71)   STAKES   STAKING BASE   (02.8-40-0486)   4656-08-71)   STAKES   STAKES   STAKING BASE																		
CATEGORY   STATION   TO   STATION   TO   STATION   LOCATION   LF   LF   EACH   EACH   LF   LF   EACH   LF   LF   EACH   EA																		
0010         9+26.00         -         9+72.80         NEW ROAD         -         -         -         -         -         47         CATEGORY         STATION         LOCATION         EACH         REMARKS           0010         9+26.00         -         9+80.73         NEW ROAD         55         55         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -	CATEGORY	S	TATION	TC	) ST	TATION	LOCA	ATION									SYSTEM	
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0010 10+19.27 - 10+74.00 NEW ROAD 55 55 0020 10+00 P-44-0903 1 0010 10+27.20 - 10+74.00 NEW ROAD 47 TOTAL 0020 1									- 55	- 55	-	-		CATEGO	RY STAT	IUN LOCATIO	ON EACH	REMARKS
0010 10+27.20 - 10+74.00 NEW ROAD 47  TOTAL 0020 1											-	-		0020	10+	-00 P-44-090	03 1	
				-					-		-	-	47		_3.			
							TOTAL	L 0010	110	110	1	1	94			TOTAL 00	220 1	
DJECT NO: 4656-08-71 HWY: NEW ROAD COUNTY: OUTAGAMIE MISCELLANEOUS QUANTITIES SHEET	)IFCT NO	4656-0	8-71			HWY: N	IFW ROAD		COUNTY: C	UTAGAMIF		MISCELLA	NEOUS OLIANTITU	:S				SHFFT

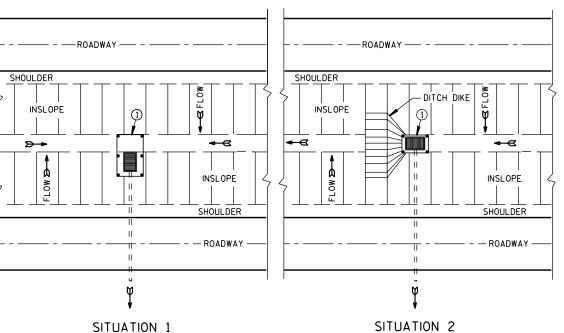


## Standard Detail Drawing List

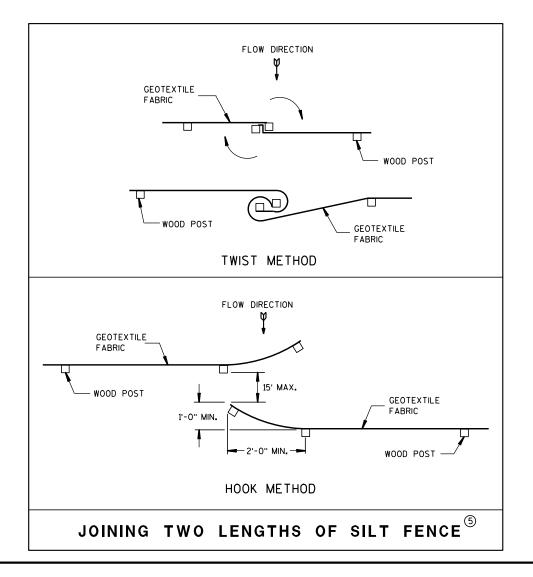
08E09-06	SILT FENCE
08E11-02	TURBIDITY BARRIER
12A03-10	NAME PLATE (STRUCTURES)
15C02-08A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-08B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C03-05	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C04-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C06-10	SIGNING & MARKING FOR TWO LANE BRIDGES
15C11-09B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

## TYPICAL APPLICATION OF SILT FENCE





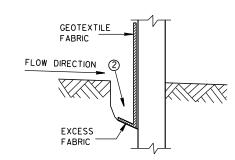
### PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



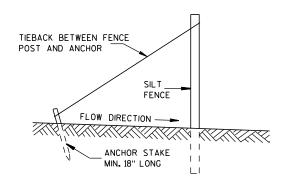
#### **GENERAL NOTES**

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 11/8" X 11/8" OF OAK OR HICKORY.
- 4) SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
- (5) CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



TRENCH DETAIL

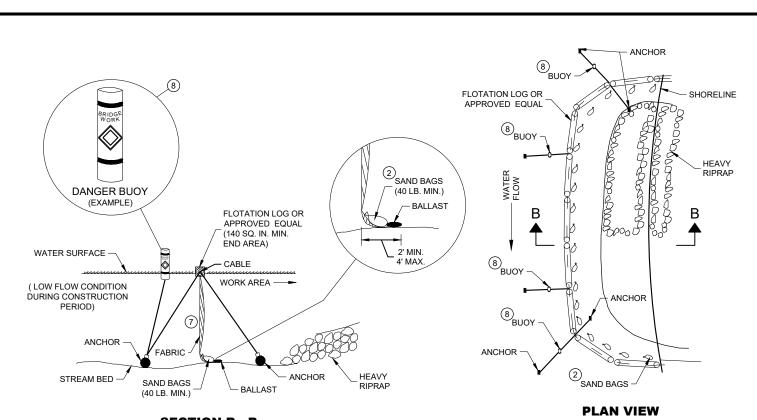


SILT FENCE TIE BACK (WHEN REQUIRED BY THE ENGINEER)

SILT FENCE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION APPROVED 4-29-05 /S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER

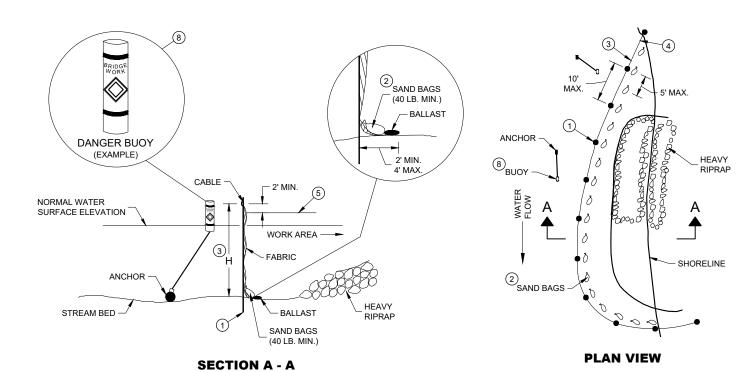
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### **SECTION B - B**

#### **TURBIDITY BARRIER - FLOAT ALTERNATIVE CAUTION - SEE NOTE 6**



### **TURBIDITY BARRIER - STANDARD POST INSTALLATION**

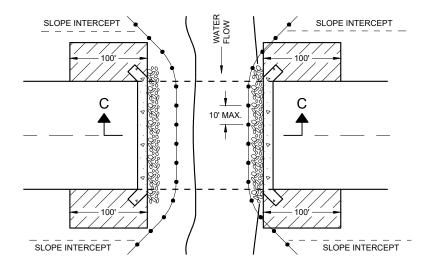
#### **TURBIDITY BARRIER PLACEMENT DETAILS**

#### **GENERAL NOTES**

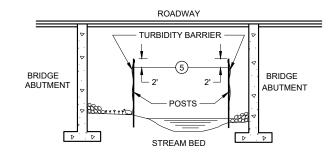
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

TURBIDITY BARRIER MAY BE REMOVED AT THE ENGINEERS DISCRETION, WHEN PERMANENT EROSION CONTROL MEASURES HAVE BEEN ESTABLISHED.

- ① DRIVEN STEEL POSTS, PIPES, OR CHANNELS. LENGTH SHALL BE SUFFICIENT TO SECURELY SUPPORT BARRIER AT HIGH
- (2) SAND BAGS TO BE USED AS ADDITIONAL BALLAST WHEN ORDERED BY THE ENGINEER TO MEET ADVERSE FIELD CONDITIONS. SPACE AS APPROPRIATE FOR SITE CONDITIONS.
- (3) WHEN BARRIER HEIGHT "H" EXCEEDS 8 FEET, POST SPACING MAY NEED TO BE DECREASED.
- (4) IN WATERWAYS SUBJECT TO FLUCTUATING WATER ELEVATIONS, PROVISIONS SHOULD BE MADE TO ALLOW THE WATER TO EQUALIZE ON EACH SIDE OF THE BARRIER. THIS MAY BE ACCOMPLISHED BY LEAVING A PORTION OF THE BARRIER OPEN ON
- (5) ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION PERIOD. MINIMUM BARRIER HEIGHT SHALL BE 2' GREATER THAN EITHER THE Q2 ELEVATION OR THE ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION, WHICHEVER IS GREATER.
- (6) FLOAT ALTERNATIVE WILL ONLY BE ALLOWED WITH WRITTEN APPROVAL OF THE ENGINEER, AND IS MEANT FOR LOCATIONS WHERE BEDROCK PREVENTS THE INSTALLATION OF POSTS.
- (7) ALLOW SUFFICIENT SLACK VERTICALLY AND HORIZONTALLY SO THAT SEDIMENT BUILD UP WILL NOT SEPARATE OR LOWER THE TURBIDITY BARRIER.
- (8) USE AS DIRECTED BY COAST GUARD OR DNR PERMIT WHEN WORKING IN NAVIGABLE WATERWAYS.



**PLAN VIEW** 



#### **SECTION C - C**

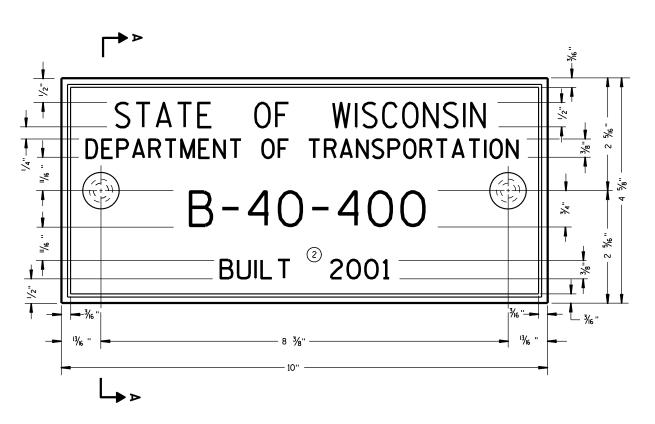
#### **TURBIDITY BARRIER DETAIL SHOWING TYPICAL PLACEMENT AT STRUCTURES**

#### **TURBIDITY BARRIER**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION  $\infty$ 

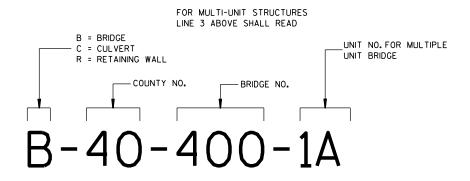
APPROVED /S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT
ENGINEER 6/4/02 DATE





### TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)



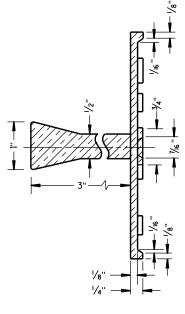
NUMBERING DESIGNATION MULTI-UNIT STRUCTURES

#### **GENERAL NOTES**

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

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

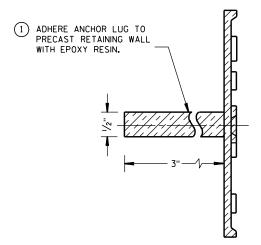
- 1 EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



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

SECTION A-A

ALTERNATE LUG



ALTERNATE LUG

(FOR ATTACHMENT TO PRECAST STRUCTURES)

## NAME PLATE (STRUCTURES)

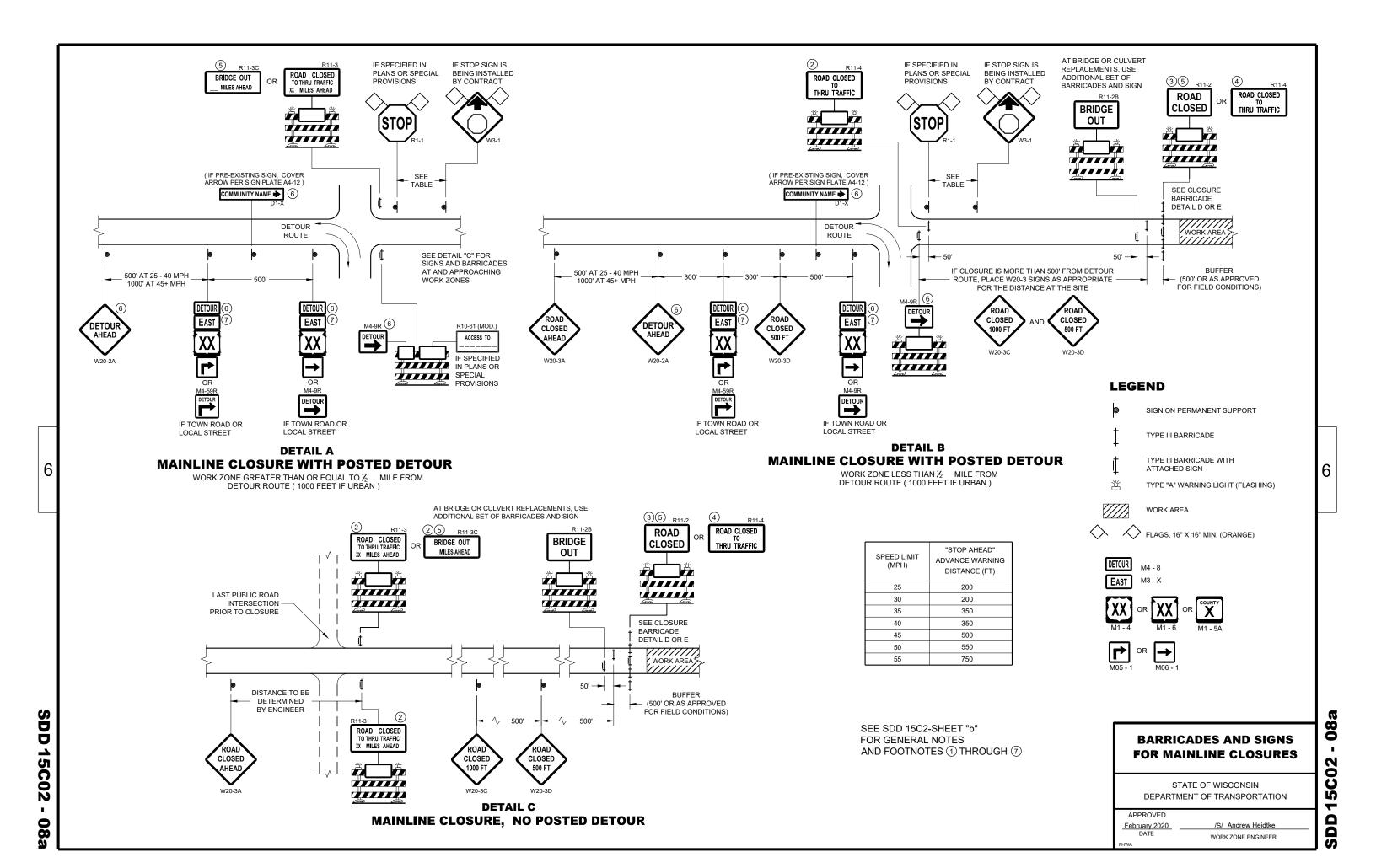
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

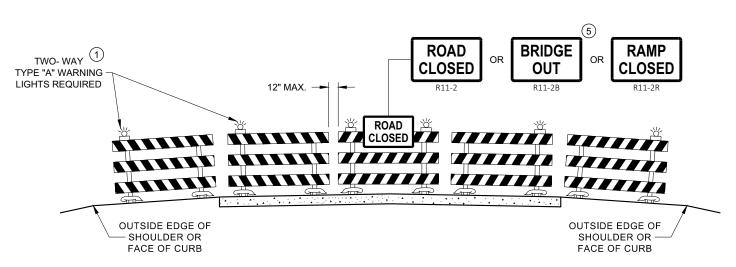
3-10

APPROVED

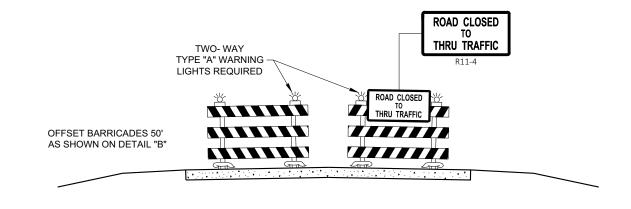
3/26/IO /S/ SCOT BECKET

CHIEF STRUCTURAL DEVELOPMENT 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"

- TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING.
- THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.
- (3) FOR ROAD CLOSURE 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

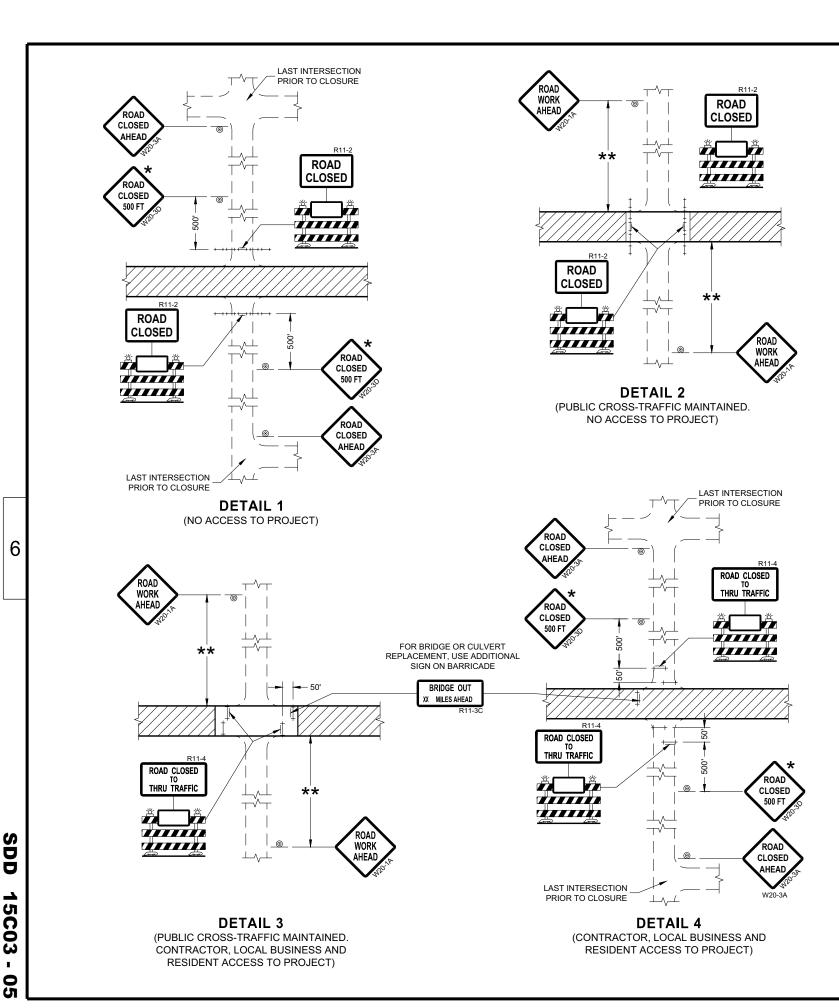
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

February 2020
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

15C02



#### **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.

 $\begin{tabular}{l} FA "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS REESTABLISHED. \\ \end{tabular}$ 

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

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

TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

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

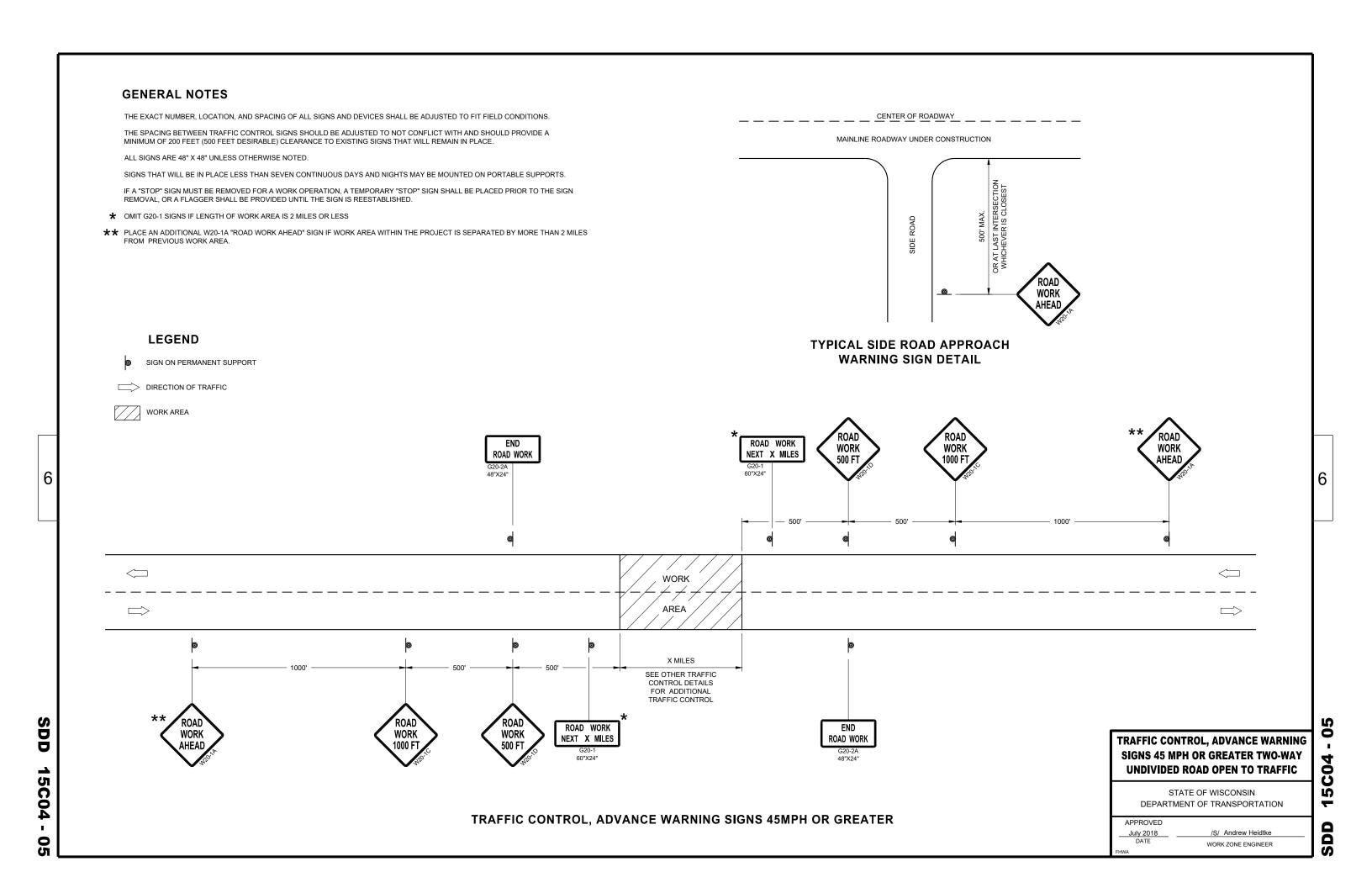
#### BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

 APPROVED
 /S/ Andrew Heidtke

 July 2018
 /S/ Andrew Heidtke

 DATE
 WORK ZONE ENGINEER





**200** 

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### DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THE DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. LOCATE W5-52 SIGN POST(S) BEHIND GUARDRAIL WHEN PRESENT. PLACE THE EDGE OF THE W5-52 SIGN IN LINE WITH FACE OF CURB OR PARAPET. ON BRIDGE ONLY PROJECTS, PLACE 300 FEET OF EDGELINE. OMIT EDGELINES ON ROADWAYS WITHOUT EXISTING EDGELINES. (1) OMIT ON ONE-WAY TRAVELED WAYS. **LEGEND** SIGN ON PERMANENT SUPPORT DIRECTION OF TRAFFIC **DISTANCE TABLE** POSTED OR 85TH DISTANCE "A" PERCENTILE SPEED 150' 25 30 200' 35 250' 300' 400' 45 550' 700'

**GENERAL NOTES** 

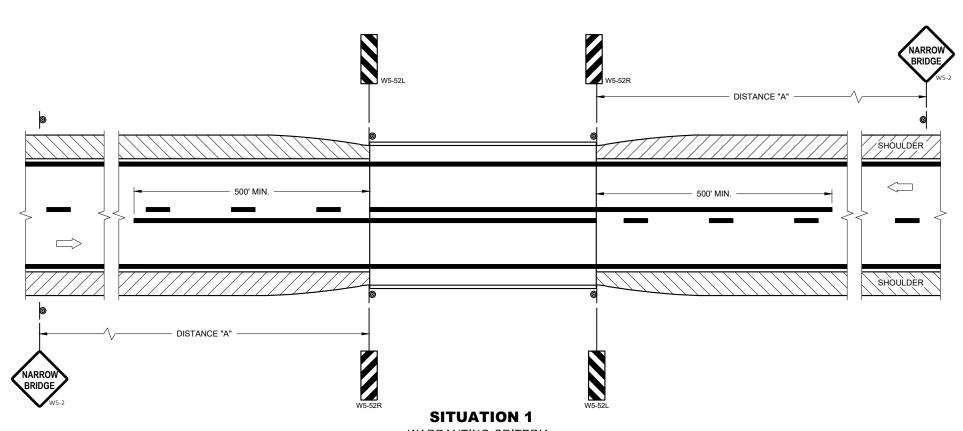
# SIGNING AND MARKING

**FOR TWO LANE BRIDGES** 

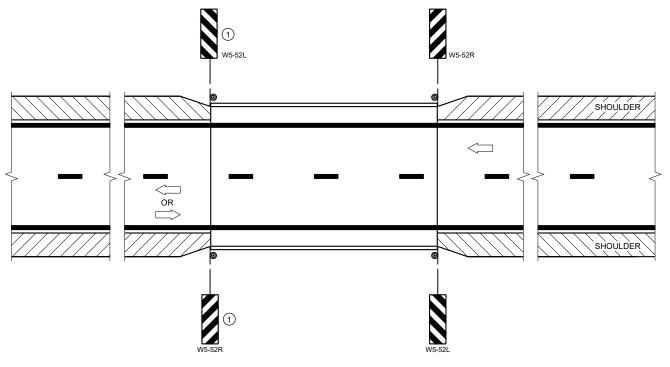
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

 May 2022
 /S/ Jeannie Silver

 DATE
 STATE SIGNING AND MARKING ENGINEER



WARRANTING CRITERIA: BRIDGE WIDTH IS AT LEAST 16 FEET BUT LESS THAN 24 FEET.



#### **SITUATION 2**

WARRANTING CRITERIA:

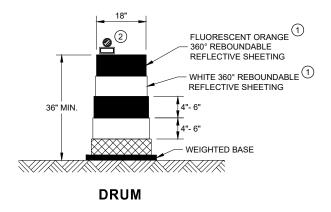
SDD

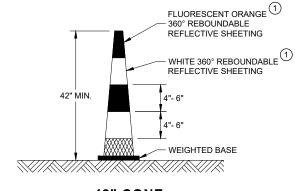
15C06

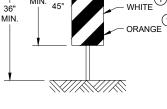
- 1. BRIDGE WIDTH IS AT LEAST 24 FEET AND
- 2. BRIDGE SHOULDER WIDTH IS LESS THAN 6 FEET

#### **GENERAL NOTES**

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





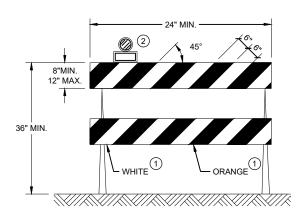


### **42" CONE**

DO NOT USE IN TAPERS ½ SPACING OF DRUMS

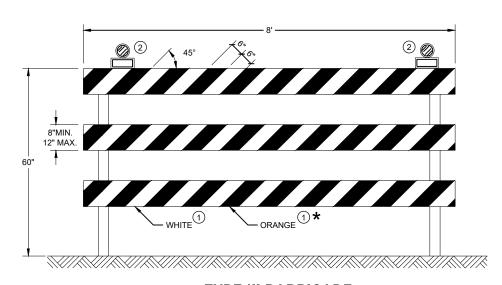
#### **VERTICAL PANEL**

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



#### **TYPE II BARRICADE**

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



#### **TYPE III BARRICADE**

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

\* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

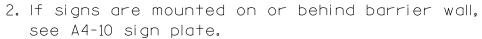
#### **CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS**

<u>60</u>

SDD 15

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

/S/ Andrew Heidtke
WORK ZONE ENGINEER



The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" ( $\pm$ ). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" ( $\pm$ ).

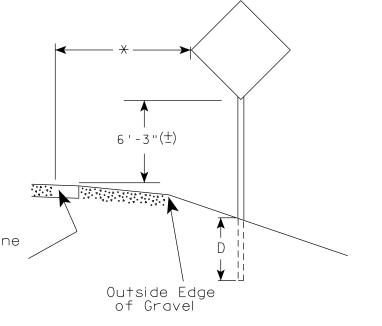
- 3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
- 4. Minimum mounting height for signs mounted on traffic signal poles is 5' 3"  $(\pm)$ .
- 5. Offset distance shall be consistent with existing signs or consistent throughout length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

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

\*\* Curb Flowline

D

White Edgeline Location



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

\*\* Curb Flowline

\*\* Curb Flowline

White Edgeline Location

Outside Edge of Gravel

\*\* 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

HWY:

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.

POST EMBEDMENT DEPTH

D
(Min)
4'
5'

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

SHEET NO:

Ε

FILE NAME: C:\CAEfiles\Projects\tr\_stdplate\A43.dgn

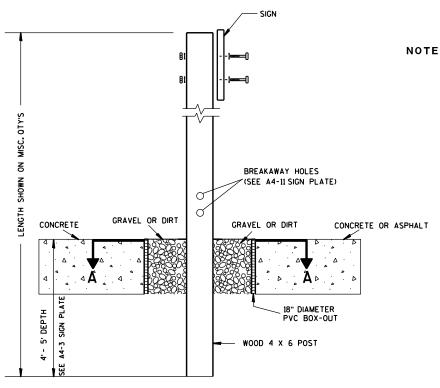
PROJECT NO:

COUNTY: PLOT DATE: 13-MAY 2020 1:04

PLOT BY : mscj9h

PLOT NAME :

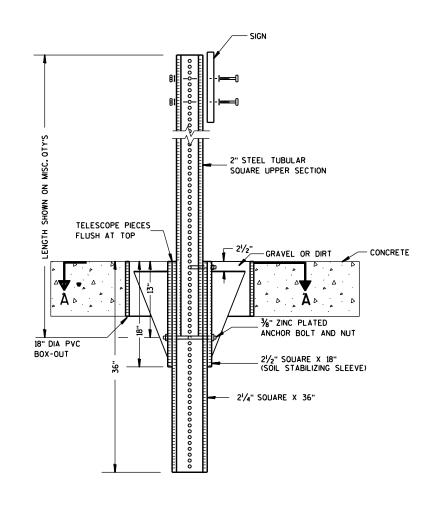
PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42



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.



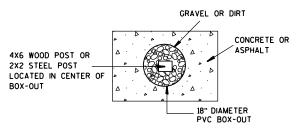
### ELEVATION VIEW

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

ELEVATION VIEW

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

HWY:



#### PLAN VIEW

COUNTY:

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer

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

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\A43B.DGN

PROJECT NO:

PLOT DATE: 27-JAN-2014 09:48

PLOT NAME :

PLOT BY: mscsja

PLOT SCALE : 13.659812:1.000000

APPROVED

- 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'' ( $\pm$ ) or as directed by the engineer.
- 8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±).
- \* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.
- \*\* The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.
- $\star\star\star$  See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

### POST EMBEDMENT DEPTH

D
(Min)
4'
5'

OF TYPE II SIGNS
ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

APPROVED

TYPICAL INSTALLATION

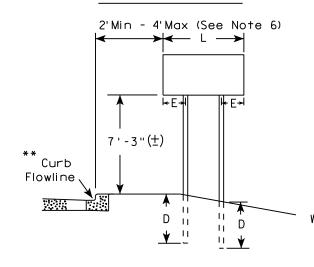
For State Traffic Engineer

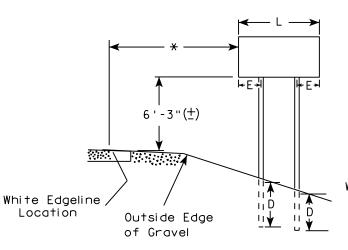
DATE 8/21/17 PLATE NO. A4-4.15

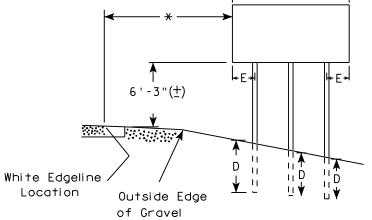
SHEET NO:

#### URBAN AREA

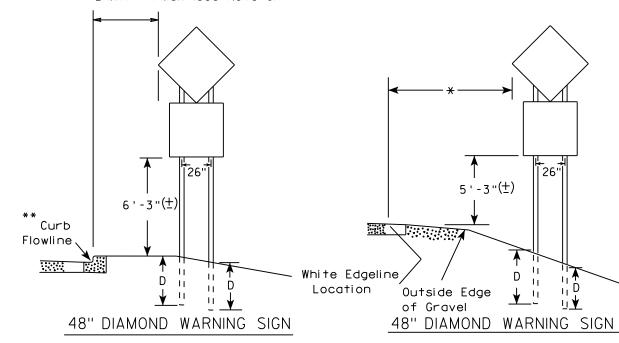
#### RURAL AREA (See Note 3)







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



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

HWY:

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

COUNTY:

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

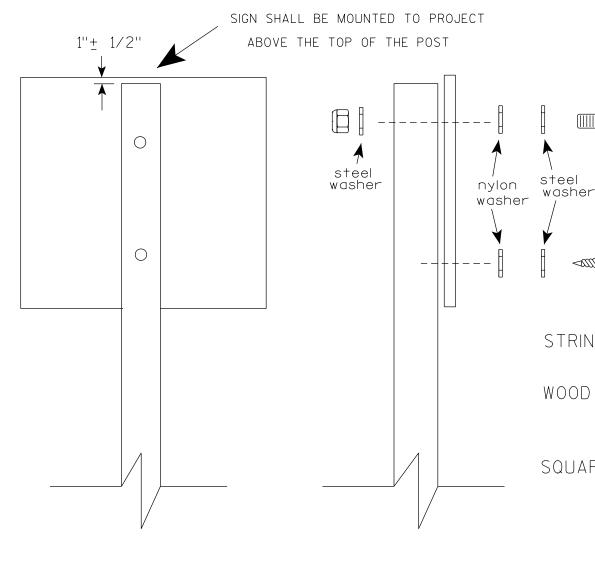
PROJECT NO:

PLOT DATE: 21-AUG-2017 15:54

PLOT BY: \$\$...plotuser...\$\$ PLOT NAME:

PLOT SCALE: 108.188297:1.000000

WISDOT/CADDS SHEET 42



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

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

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

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

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

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

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

SQUARE STEEL POSTS (2" x 2")

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

RIVETS - 3/32 " (6605-9-6) BULB-TITE. TRI-FOLD. ALUMINUM BODY/MANDREL O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

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

1-1/4" O.D. X  $\frac{3}{8}$ " I.D. X .080 NYLON

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

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matther

≠or State Traffic Engineer

DATE 4/1/2020

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

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\A48.DGN

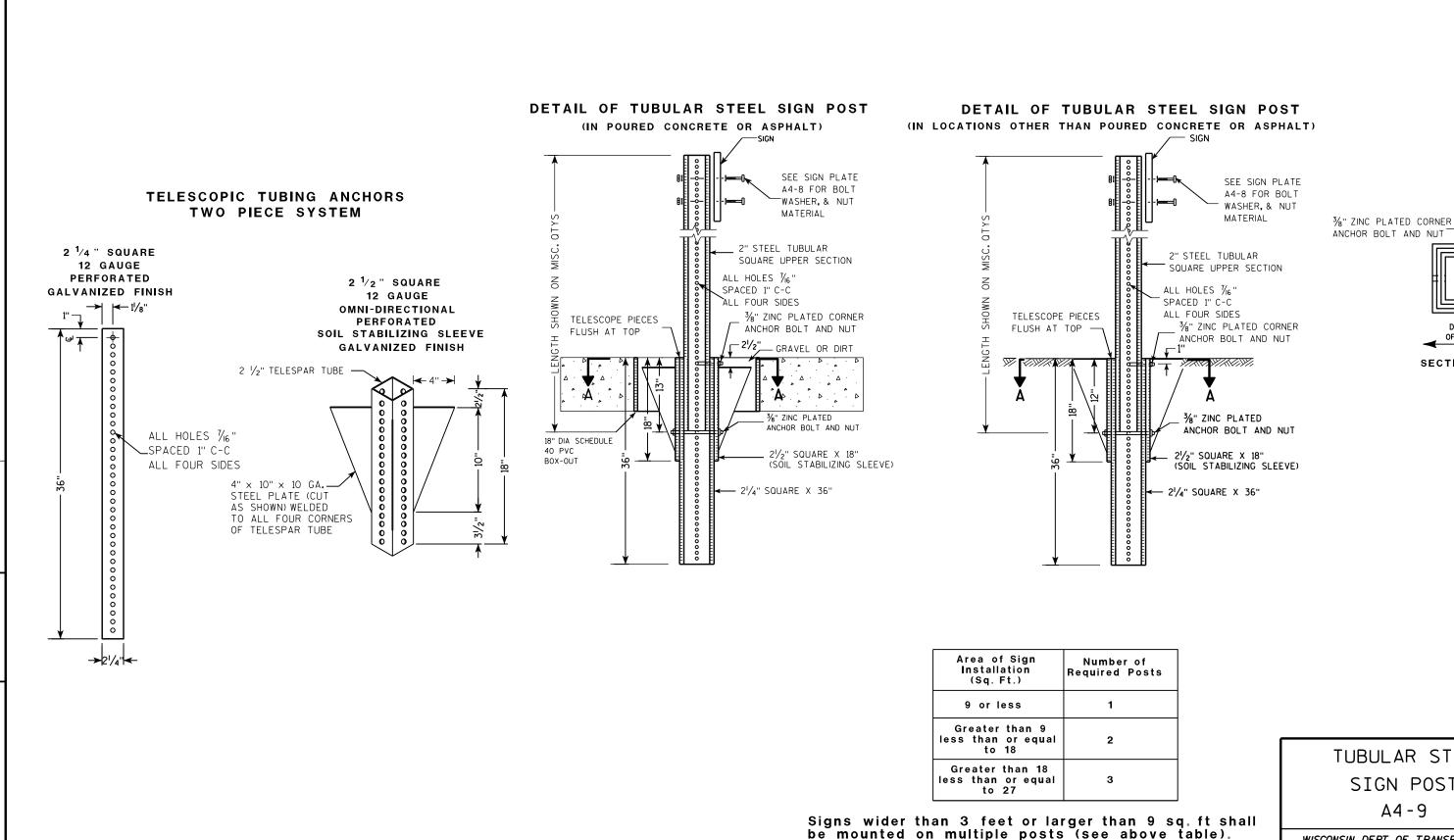
PROJECT NO:

PLOT DATE: 01-APRIL-2020

PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

Ε



TUBULAR STEEL SIGN POST A4-9

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer DATE 2/05/15 PLATE NO. <u>A4-9.9</u>

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\A49.DGN

HWY:

PROJECT NO:

PLOT DATE: 05-FEB-2015 17:09

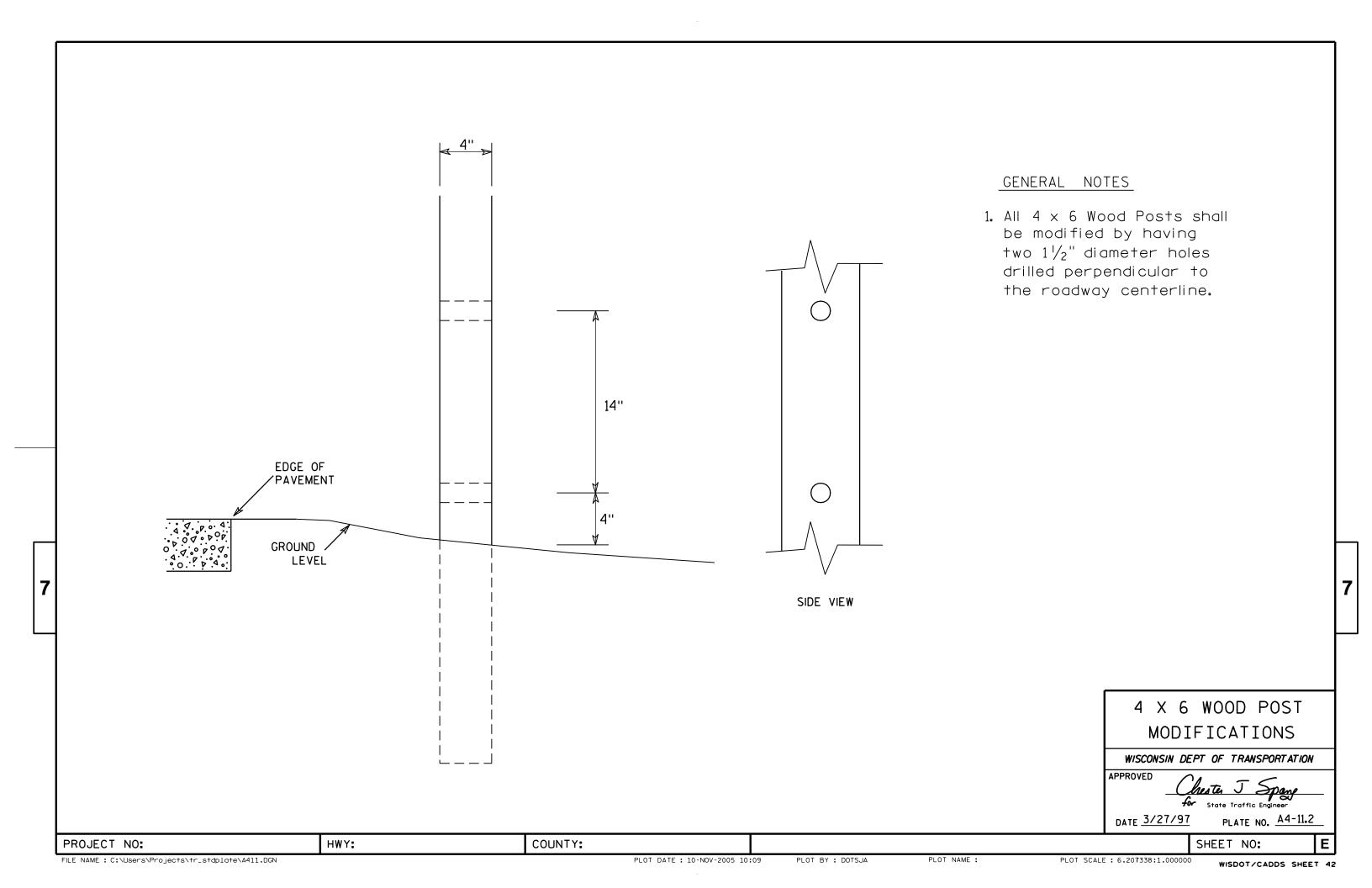
COUNTY:

PLOT NAME :

PLOT BY: mscsja

PLOT SCALE: 13.659812:1.000000

SECTION A-A

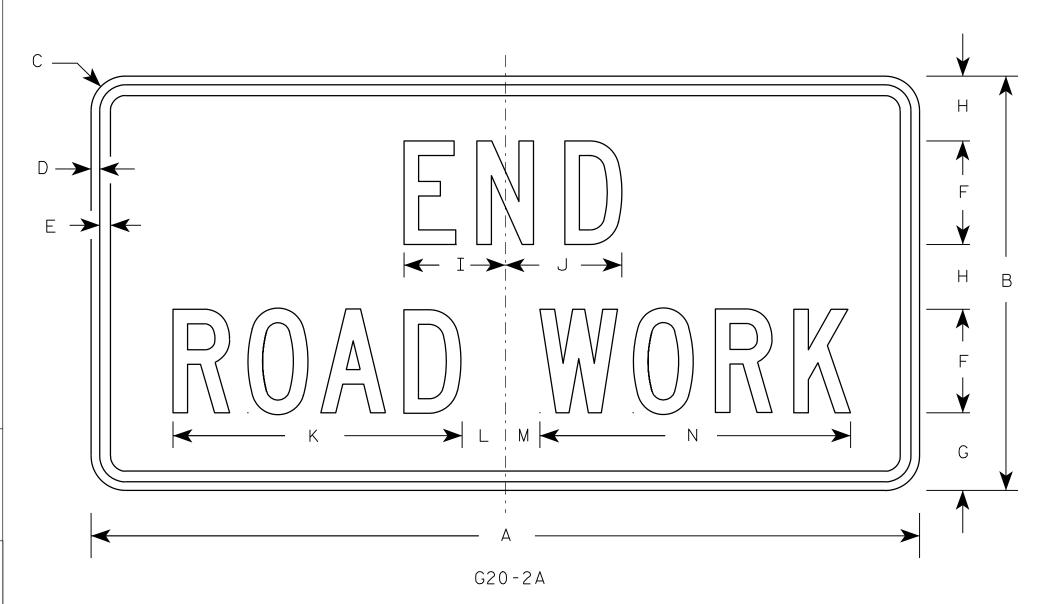


1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.

2. Color:

Background - Orange Message - Black

- 3. Message Series 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.



Metric equivalent for this sign is:

SIZE					
1	900	mm	Χ	450	mm
2	1200	mm	Х	600	mm
3	1200	mm	Х	600	mm
4	1200	mm	X	600	mm
5	1200	mm	Х	600	mm

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	T	U	٧	w	Х	Y	Z	Area sq. ft.	Area m2
1	36	18	1 1/8	3/8	1/2	4	3 3/4	2 1/2	4 1/8	4 1/8	11 1/8	2	1	12 1/8													4.5	0.41
2	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 %	6 3/4	16 ¾	2 1/2	1 3/4	18 ½													8.0	0.72
3	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 1/8	6 3/4	16 3/4	2 1/2	1 3/4	18 ½													8.0	0.72
4	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 %	6 3/4	16 ¾		1 3/4	18 ½													8.0	0.72
5	48	24	1 1/2	1/2	5/8	6	4 1/2	3 ¾	5 1/8	6 3/4	16 ¾	2 1/2	1 3/4	18 1/2													8.0	0.72

STANDARD SIGN G20-2A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED For State Traffic Engineer

DATE 9/30/09 PLATE NO. G20-2A.8 SHEET NO:

HWY:

COUNTY:

PLOT NAME :

PLOT SCALE : 5.561773:1.000000

WISDOT/CADDS SHEET 42

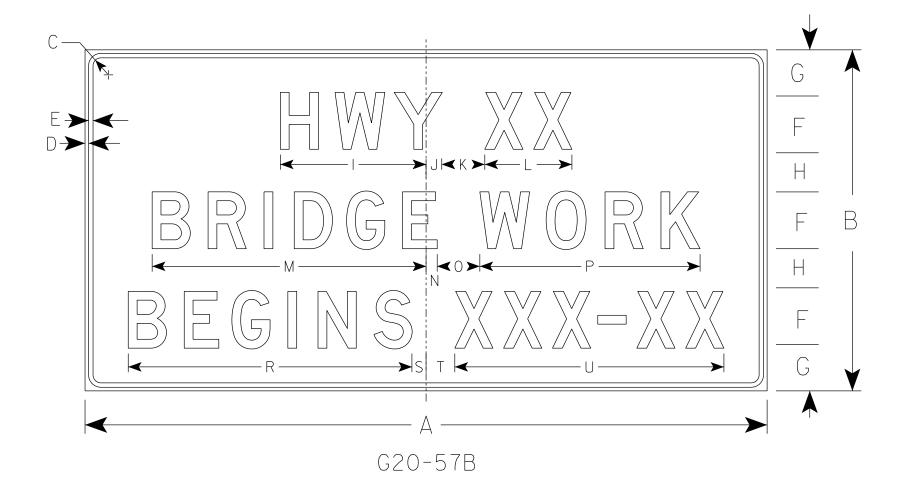
Ε

PROJECT NO:

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

Background - Orange Message - Black

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



SIZE	А	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	X	Υ	Z	Area sq. ft.
1 1																											
2																											
3	72	36	1 1/8	1/2	5/8	6	5	4	15 5/8	1 5/8	5	9 1/4	29 1/8	7/8	5	23 1/4		29 1/8	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 %	2 1/4	6	12 1/4	38 1/2	1 1/2	6	31		39 1/4	2	4	37 1/8						32.0
5																											

COUNTY:

STANDARD SIGN G20-57B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

for State Traffic Engineer

SHEET NO:

DATE \_\_\_1/22/19

PLATE NO. <u>G20-57B.</u>1

Ε

FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\_G2057B.dgn

HWY:

PROJECT NO:

PLOT DATE: 22-JAN-2019 1:31

PLOT BY : mscj9h

PLOT NAME :

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

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

Background - White Message - 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.

C	<u> </u>
	$ \begin{array}{c c} G \\ \hline F \\ \hline B \\ \hline G \\ \hline G \\ \hline \end{array} $
<b>←</b> A — →	1
R11-2B	

SIZE A Areo sq. ft. В С D G н I | J | K 0 0 S 1/2 4 19 3/4 9 3/4 9 1/8 5/8 48 30 | 1 3/8 | 10.0 2M 5/8 48 30 1 3/8 1/2 8 5 19 34 9 34 9 38 | 10.0 3 5/8 1 3/8 1/2 19 3/4 9 3/4 9 1/8 48 30 5 10.0 5/8 19 3/4 9 3/4 9 1/8 4 1 3/8 1/2 48 30 8 5 10.0 5 19 3/4 9 3/4 9 1/8 1 3/8 1/2 5/8 48 30 5 10.0

STANDARD SIGN R11-2B

WISCONSIN DEPT OF TRANSPORTATION

Matthew R Rauch

DATE 4/1/11 PLATE NO. R11-2B.2

SHEET NO:

PROJECT NO:

- 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.

 $D \rightarrow$ F->

R11-3

\*\* See Note 5

SIZE	А	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	Q	R	S	Т	U	V	W	Х	Y	Z	Area sq. ft.
1	36	18	1 1/4	3/8	3/8	4	3	2	11 1/4	3	1 1/8	15 3/8	2	3 3/4	8 1/4	5/8		1 3/8	13 1/4	8 3/8	7/8	10 1/2	7 1/8				4.5
25	60	30	1 3/8	1/2	5/8	6	5	3 1/2	16 1/8	5	1 3/8	23 1/4	3	6 1/4	13 %	1 1/8		1 1/8	22 1/8	14	1 1/2	17 1/2	11 1/8				12.5
2M	60	30	1 3/8	1/2	5/8	6	5	3 1/2	16 7/8	5	1 3/8	23 1/4	3	6 1/4	13 %	1 1/8		1 1/8	22 1/8	14	1 1/2	17 1/2	11 1/8				12.5
3																											
4																											
5																											
PRO	JECT	NO:						HWY:			•		С	OUNTY	/ a	•	•										

STANDARD SIGN R11-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew & Kauch

DATE 6/14/2021 PLATE NO. R11-3.9

Ε SHEET NO: PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42

FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\R113.DGN

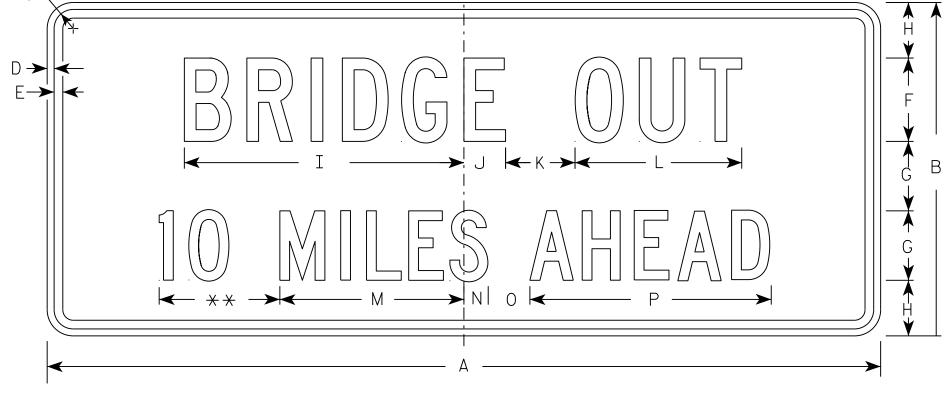
PLOT DATE: 14-JUNE 2021 10:04



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

Background - White Message - Black

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



R11-3C

\*\* See Note 5

1/4 MILE AND

SIZE	Α	В	С	D	E	F	G	Н	I	٦	K	L	М	N	0	Р	٥	R	S	Т	U	٧	W	Х	Y	Z	Area sq. ft.
1	36	15	1 3/8	1/2	5/8	4	3	2 1/2	13 1/4	2 1/4	3	8	8	1 1/2	2	10 3/4		7 1/8									3 <b>.</b> 75
2S	60	24	1 3/8	1/2	5/8	6	5	4	20 1/8	3	5	12	13 1/4	1 3/4	3	17 3/8		11 1/8									10.0
2M	60	24	1 3/8	1/2	5/8	6	5	4	20 1/8	3	5	12	13 1/4	1 3/4	3	17 3/8		11 1/8									10.0
3																											
4																											
5																											

STANDARD SIGN R11-3C

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

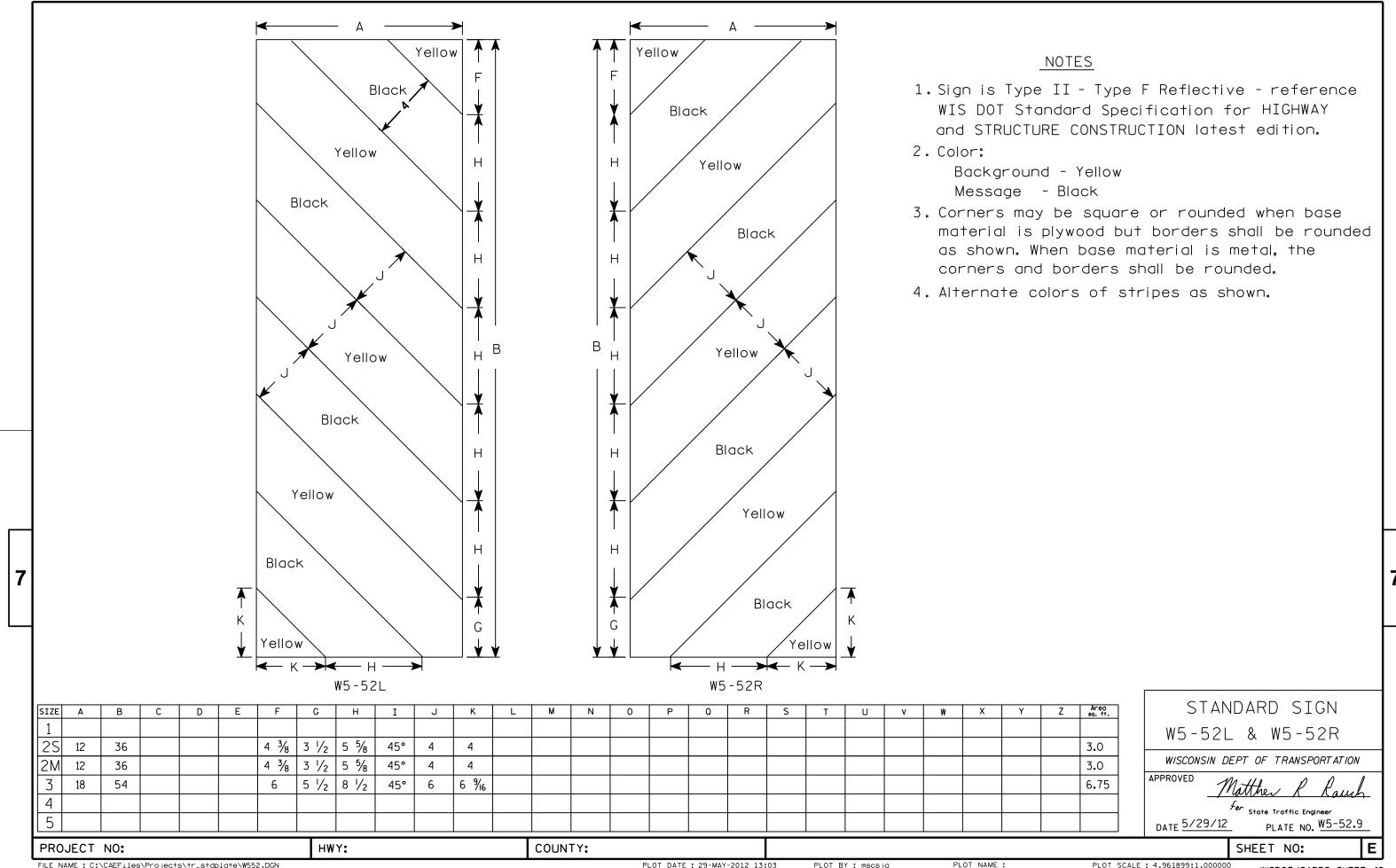
Matthew R Rauch
For State Traffic Engineer

DATE <u>7/28/16</u>

PLATE NO. R11-3C.3

PLOT BY: \$\$...plotuser...\$\$

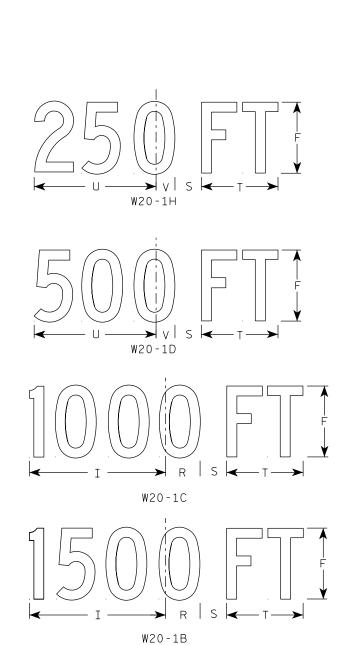
PROJECT NO:

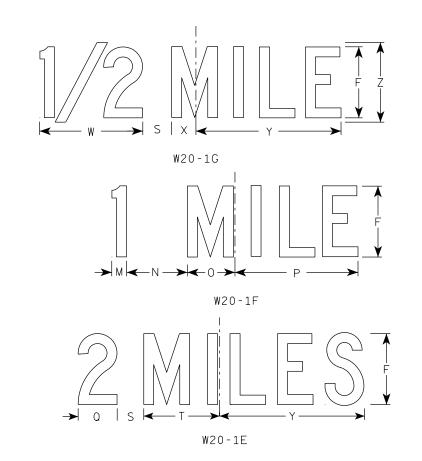


- 1. Sign is Type II Type F Reflective
- 2. Color:

Background - Orange Message - Black

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





SIZE	А	В	С	D	E	F	G	H I	J	K L	М	N	0	Р	Q	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5	2 5/8	3 1/4 10 1/8	7	7 % 8 7	/ <sub>8</sub> 1 1/ <sub>8</sub>	4 1/2	3 1/2	9	3 1/4	2 1/2	2 1/4	5 %	9	$1 \frac{3}{8}$	8	1 3/4	10 3/4	6	9.0
25	48		2 1/4	3/4	1	8	3 3/4	5 1/8 15 3/8	11 1/8	12 1/8 14	3/ <sub>8</sub> 1 5/ <sub>8</sub>	6 1/8	5 3/8	13 1/8	4 3/8	3 1/8	3	8 %	13 ¾	2 1/8	11 1/8	2 3/4	16 3/8	9	16.0
2M	48		2 1/4	3/4	1	8	3 3/4	5 1/8 15 3/8	11 1/8	12 1/8 14	3/ <sub>8</sub> 1 5/ <sub>8</sub>	6 1/8	5 3/8	13 1/8	4 3/8	3 1/8	3	8 %	13 ¾	2 1/8	11 1/8	2 3/4	16 3/8	9	16.0
3	48		2 1/4	3/4	1	8	3 3/4	5 1/8 15 3/8	11 1/8	12 1/8 14	3/ <sub>8</sub> 1 5/ <sub>8</sub>	6 1/8	5 3/8	13 1/8	4 3/8	3 1/8	3	8 %	13 ¾	2 1/8	11 1/8	2 3/4	16 3/8	9	16.0
4	48		2 1/4	3/4	1	8	3 3/4	5 1/8 15 3/8	11 1/8	12 1/8 14	3/8 1 5/8	6 1/8	5 3/8	13 1/8	4 3/8	3 1/8	3	8 %	13 ¾	2 1/8	11 1/8	2 3/4	16 3/8	9	16.0
5	48		2 1/4	3/4	1	8	3 3/4	5 1/8 15 3/8	11 1/8	12 1/8 14	3/ <sub>8</sub> 1 5/ <sub>8</sub>	6 1/8	5 3/8	13 1/8	4 3/8	3 1/8	3	8 %	13 ¾	2 1/8	11 1/8	2 3/4	16 3/8	9	16.0

STANDARD SIGN W20-1A, B, C, D, E, F, G & H

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch

For State Traffic Engineer
DATE 3/25/2020 PLATE NO. W20-1.11

SHEET NO:

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

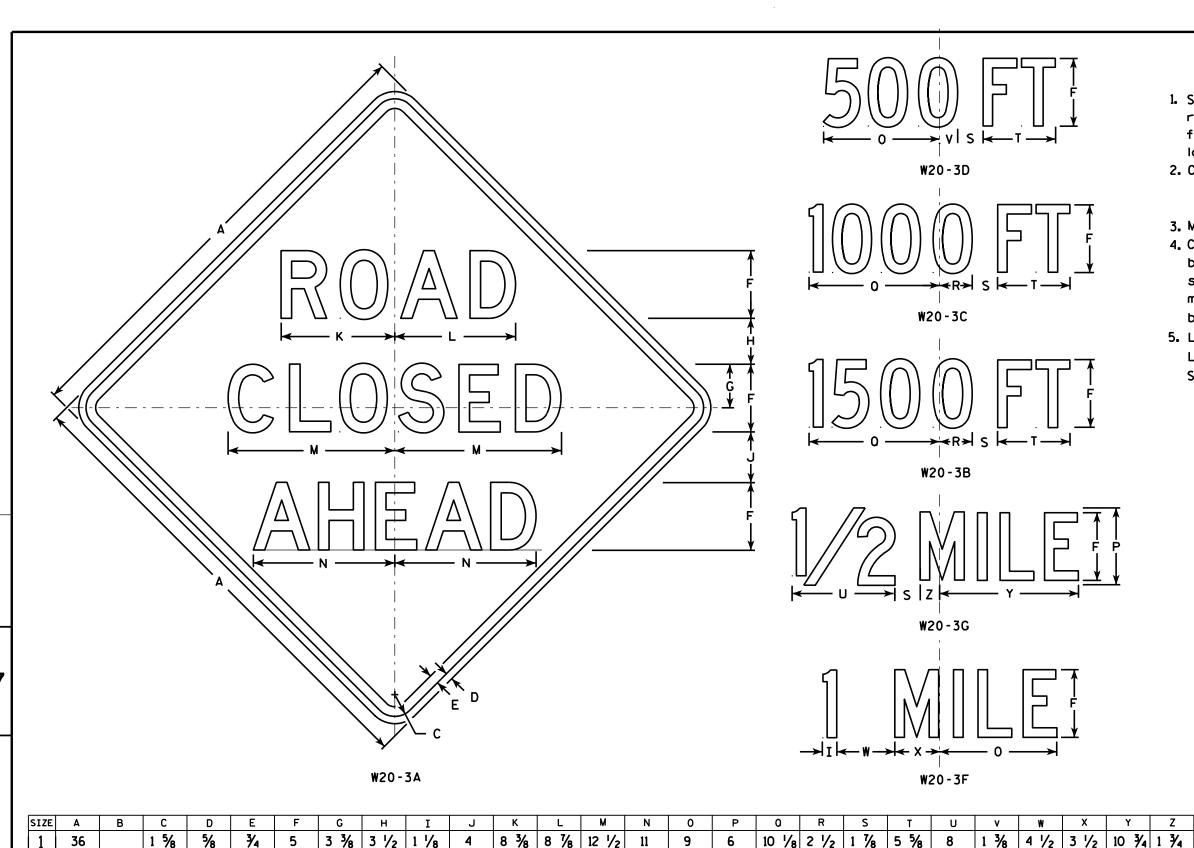
PROJECT NO:

W20-1A

PLOT DATE: 25-MARCH-2020

PLOT BY : dotc4c

WISDOT/CADDS SHEET 42



1 1/2 | 5 1/4 | 11 3/4 | 12 1/2 | 17 1/4 | 14 5/8 |

4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8

4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8

4 1/2 | 4 3/4 | 1 1/2 | 5 1/4 | 11 3/4 | 12 1/2 | 17 1/4 | 14 5/8 |

| 5 1/4 | 11 3/4 | 12 1/2 | 17 1/4 | 14 5/8 |

COUNTY:

#### 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. Lines 1 and 2 are Series D. Line 3 is Series D for AHEAD and Series C for all other distances.

4 \( \frac{5}{8} \) 14 \( \frac{3}{8} \) 2 \( \frac{3}{8} \) 16.0 4 \\ 14 \\ 38 \ 2 \\ 38 \ 16.0 4 % | 14 % | 2 % | 16.0 4 \\ 14 \\ 38 \ 2 \\ 38 \ 16.0 4 5/8 14 3/8 2 3/8 16.0

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

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer DATE 3/18/11 PLATE NO. W20-3.7

SHEET NO: PLOT NAME : PLOT BY: mscj9h

FILE NAME : C:\Users\PROJECTS\tr\_stdplate\W203.DGN

2 1/4

2M

5

48

48

48

48

PROJECT NO:

3/4

3/4

3/4

3/4

3/4

HWY:

PLOT DATE: 18-MAR-2011 12:08

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

7 1/2 10 5/8 1 7/8

7 1/2 10 5/8 1 7/8

10 % 1 %

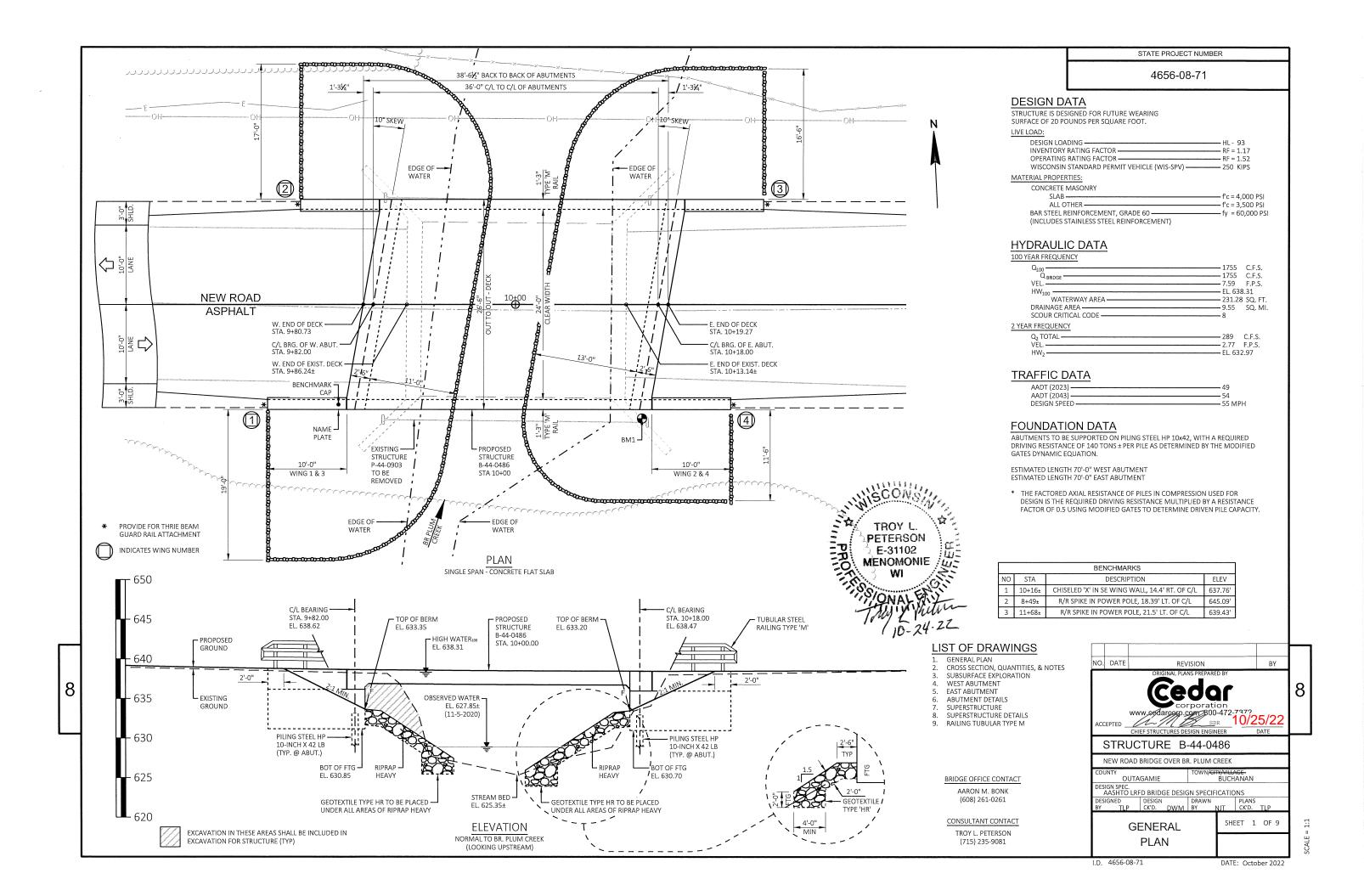
7 1/2

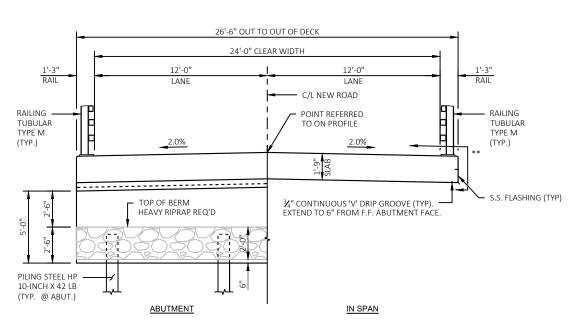
13 1/2 3 3/8 2 5/8 7 1/2 10 5/8 1 3/8

13 1/2 3 3/8 2 5/8 7 1/2 10 5/8 1 3/8

PLOT SCALE: 9.931739:1.000000

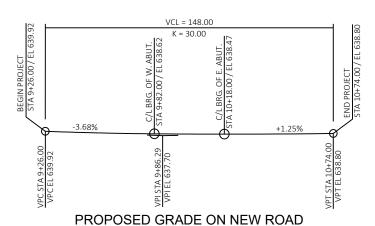
WISDOT/CADDS SHEET 42



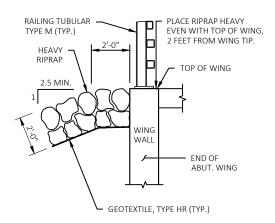


#### CROSS SECTION THRU STRUCTURE

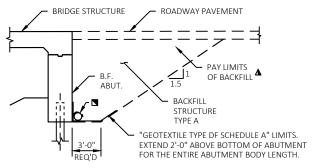
(LOOKING EAST)



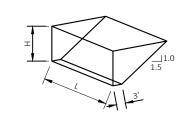
		TOTAL ESTIMATED QUANT	ITIES				
	ITEM NUMBER	BID ITEMS	UNIT	WEST ABUT.	EAST ABUT.	SUPER.	TOTALS
	203.0250	REMOVING STRUCTURE OVER WATERWAY REMOVE DEBRIS B-44-0486	EACH	-	-	=	1
	206.1001	EXCAVATION FOR STRUCTURES BRIDGES B-44-0486	EACH	-	-	-	1
	210.1500	BACKFILL STRUCTURE TYPE A	TON	100	100	-	200
	502.0100	CONCRETE MASONRY BRIDGES	CY	27.8	27.7	70.5	126
	502.3200	PROTECTIVE SURFACE TREATMENT	SY	-	-	137	137
٦	505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	1510	1510	-	3020
8	505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	1390	1370	12360	15120
l	513.4061	RAILING TUBULAR TYPE M	LF	=	-	117	117
	516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	8	8	-	16
	550.1100	PILING STEEL HP 10-INCH X 42 LB	LF	280	280	=	560
	606.0300	RIPRAP HEAVY	CY	95	75	-	170
	612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	80	80	-	160
	645.0111	GEOTEXTILE TYPE DF SCHEDULE A	SY	15	15	=	30
	645.0120	GEOTEXTILE TYPE HR	SY	170	135	-	305
	SPV.0090.01	FLASHING STAINLESS STEEL	LF	=	-	77	77
							·
		NON-BID ITEMS					
		FILLER	SIZE	-	-	-	½" x ¾"



#### TYPICAL FILL SECTION AT WING TIPS



#### STRUCTURE BACKFILL & LIMITS

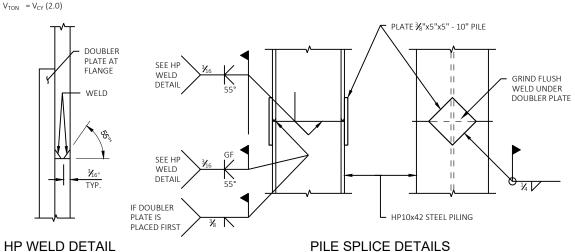


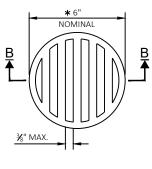
#### ABUTMENT BACKFILL DIAGRAM FOR WINGS PARALLEL TO ROADWAY

- = OUT TO OUT OF ABUTMENT, INCLUDING WINGS (FT)
- = AVERAGE ABUTMENT FILL HEIGHT (FT)
- = EXPANSION FACTOR (1.20 FOR CY BID ITEMS & 1.00 FOR TON BID ITEMS)
- = (L)(3.0')(H) + (L)(0.5)(1.5H)(H)

FLANGE SHOWN, WEB SIMILAR

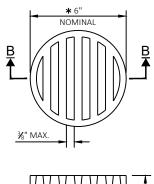
= V<sub>CF</sub> (EF)/27  $V_{TON}$ 





\* DIMENSION IS APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL. THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM

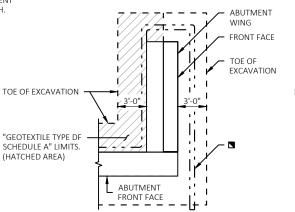
THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER A PIPE COUPLING IS REQUIRED. FOR THE ATTACHMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.



#### RODENT SHIELD DETAIL

"PIPE UNDERDRAIN WRAPPED 6-INCH".

THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO



#### **GENERAL NOTES**

DRAWINGS SHALL NOT BE SCALED.

ALL STATIONS AND ALL ELEVATIONS ARE IN FEET.

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

STATE PROJECT NUMBER

4656-08-71

ALL REINFORCING BARS ARE ENGLISH. THE FIRST DIGIT OF A THREE-DIGIT BAR MARK OR THE FIRST TWO DIGITS OF A FOUR-DIGIT BAR MARK SIGNIFIES THE BAR SIZE.

JOINT FILLER SHALL CONFORM TO THE REQUIREMENTS OF A.A.S.H.T.O. DESIGNATION M 153, TYPE I, II OR III OR A.A.S.H.T.O. DESIGNATION M 213.

THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH RIPRAP HEAVY AND GEOTEXTILE TYPE 'HR TO THE EXTENT SHOWN ON SHEETS 1 AND 2 AND IN THE

THE EXISTING STRUCTURE (P-44-0935) IS A 27 7' LONG BY 28.0' WIDTH SINGLE SPAN CONCRETE FLAT SLAB BRIDGE.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES BRIDGES B-44-0486" SHALL BE THE EXISTING GRADE LINE

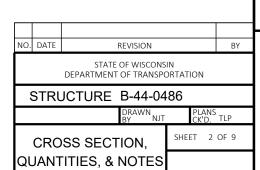
AT THE BACK FACE OF ABUTMENT ALL VOLUME WHICH CANNOT BE IN PLACE BEFORE ABUTMENT CONSTRUCTION AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH BACKFILL STRUCTURE.

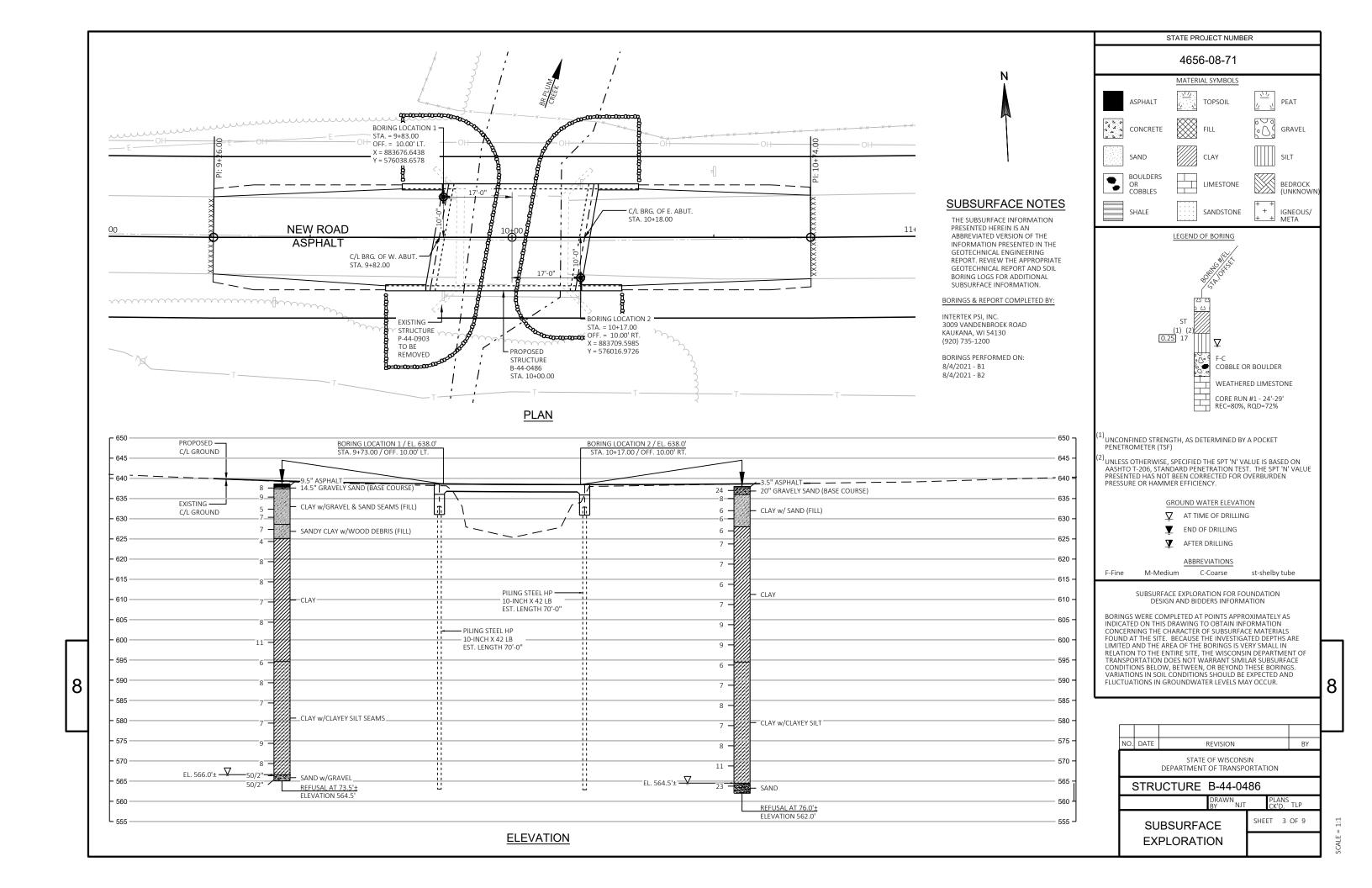
AT ABUTMENTS, CONCRETE POURED UNDERWATER WILL BE ALLOWED AND SHALL BE DONE IN ACCORDANCE WITH SECTION 502.3.5.3 OF THE STANDARD SPECIFICATIONS.

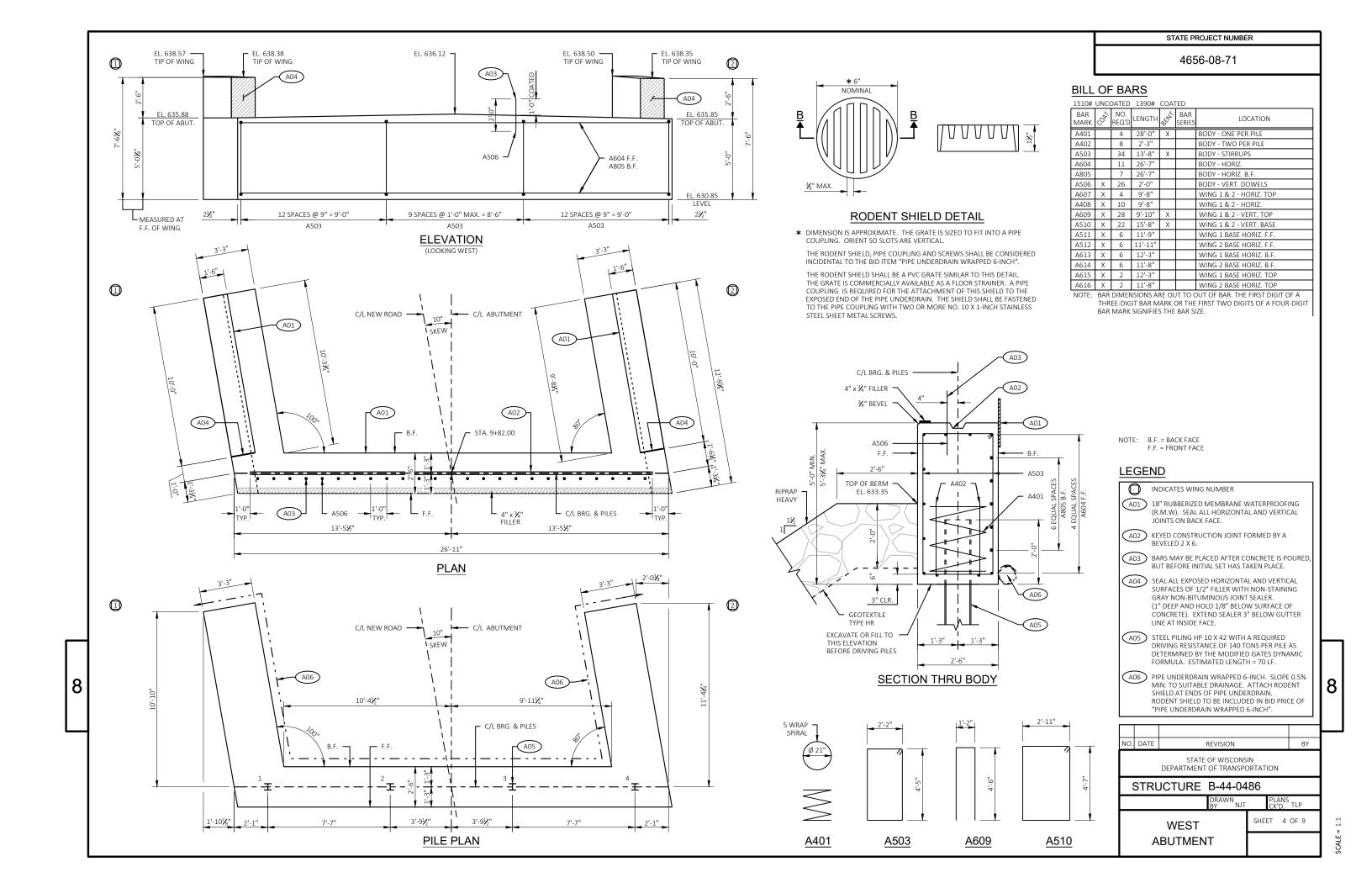
SLAB FALSE WORK SHALL BE SUPPORTED ON PILES OR THE SUBSTRUCTURE UNLESS AN ALTERNATE METHOD IS APPROVED BY THE ENGINEER.

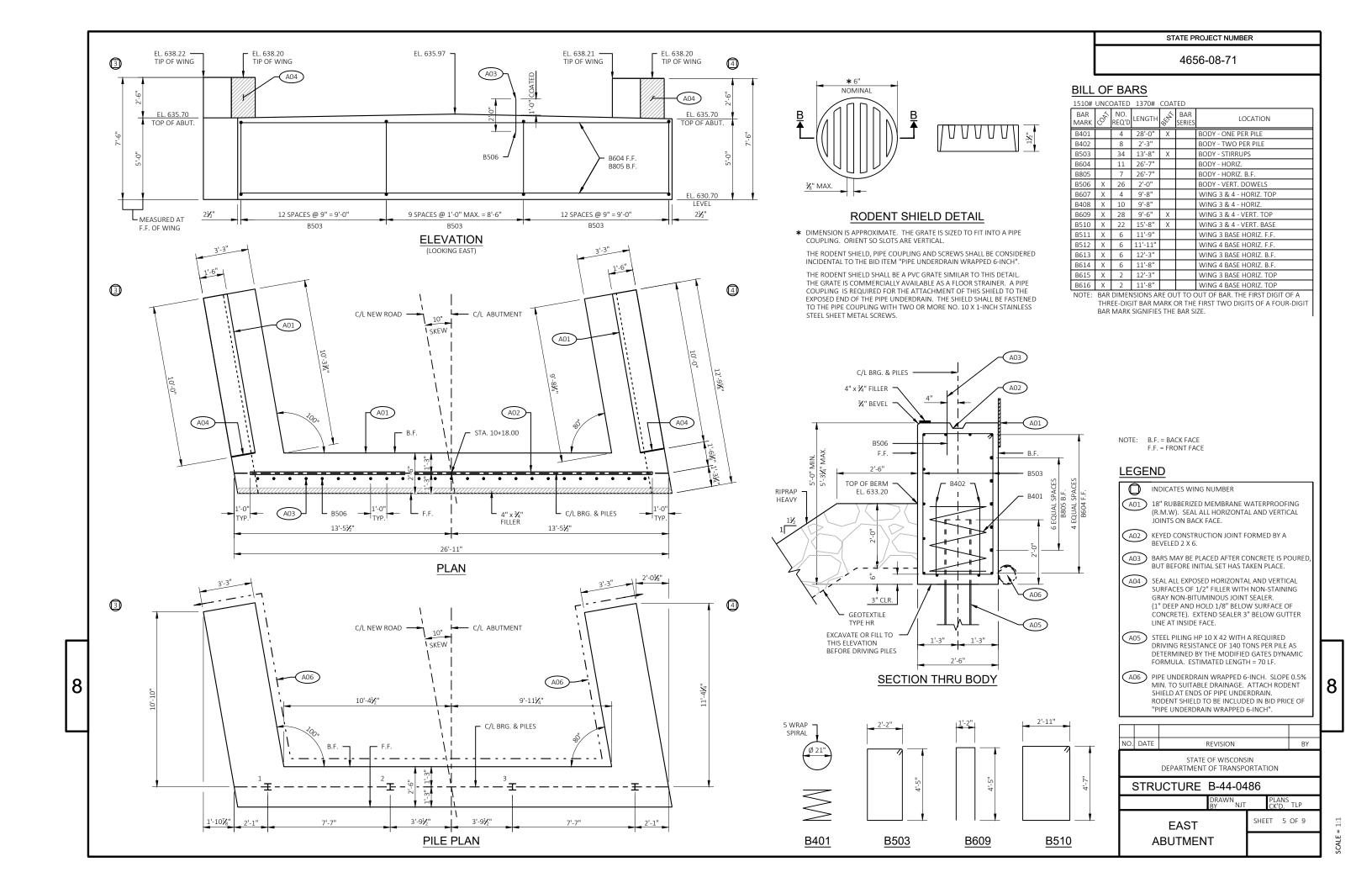
- ▲ BACKFILL PAY LIMITS, BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.
- PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF

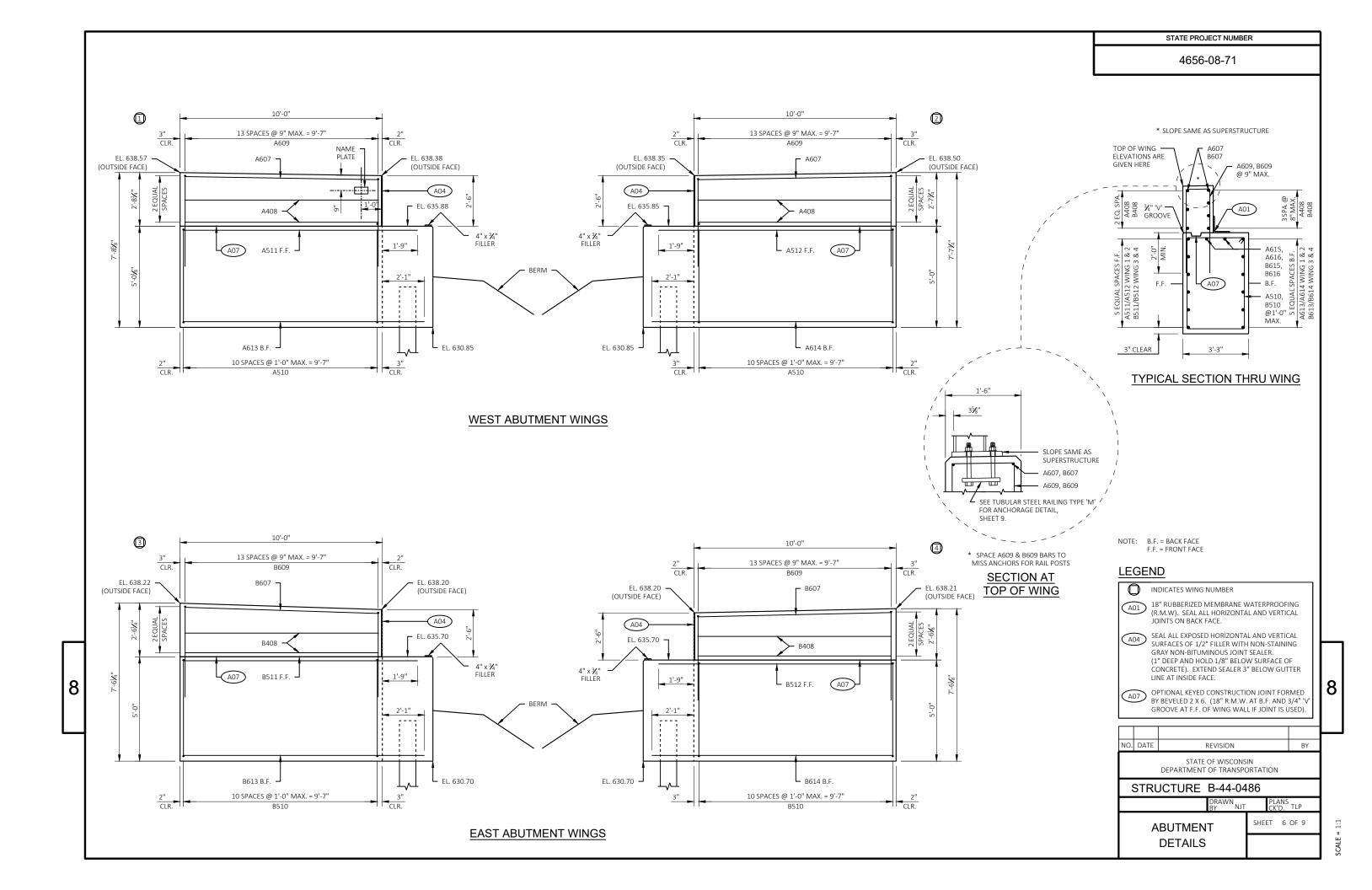
# ABUTMENT PLAN WITH WING

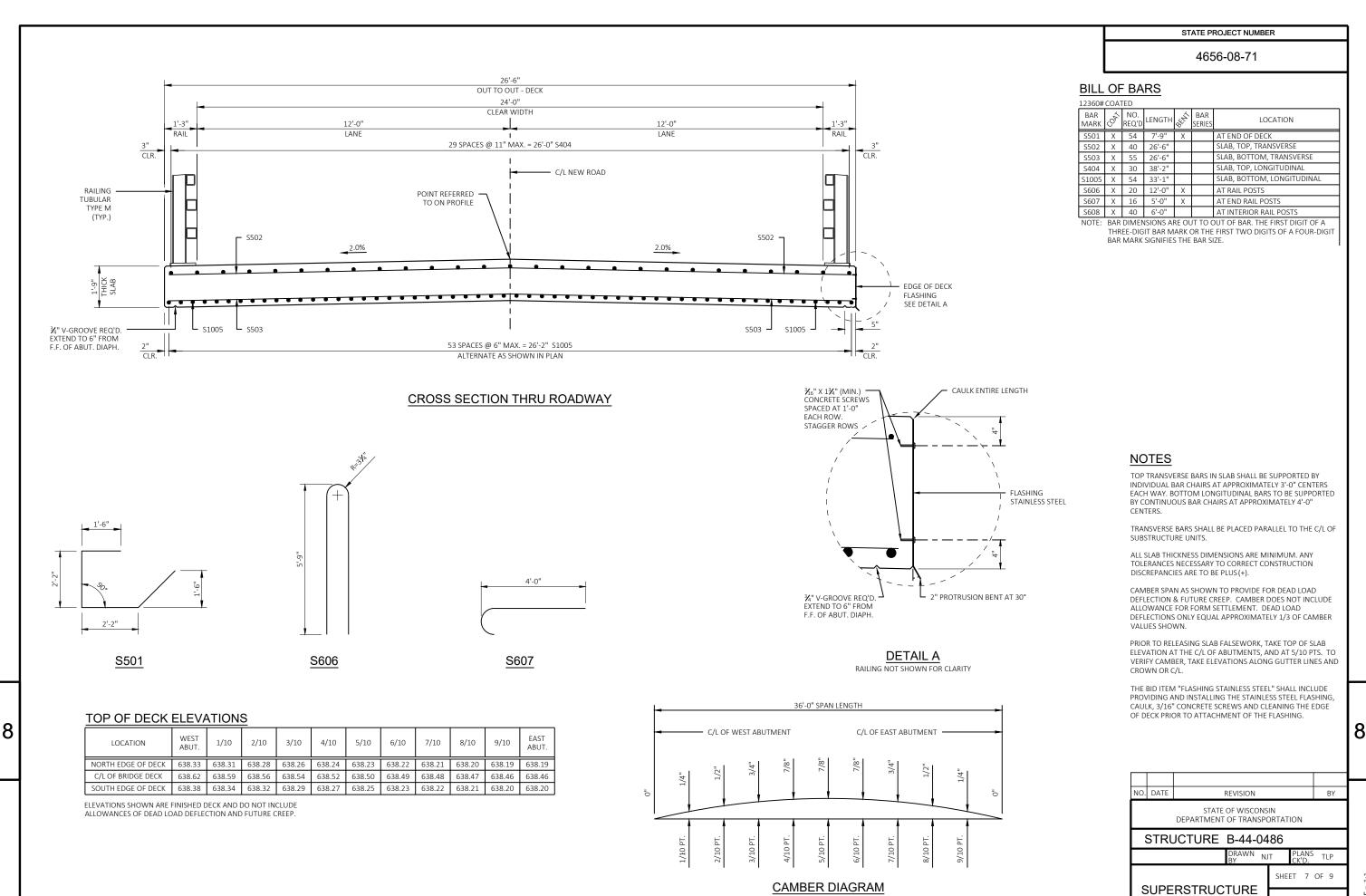




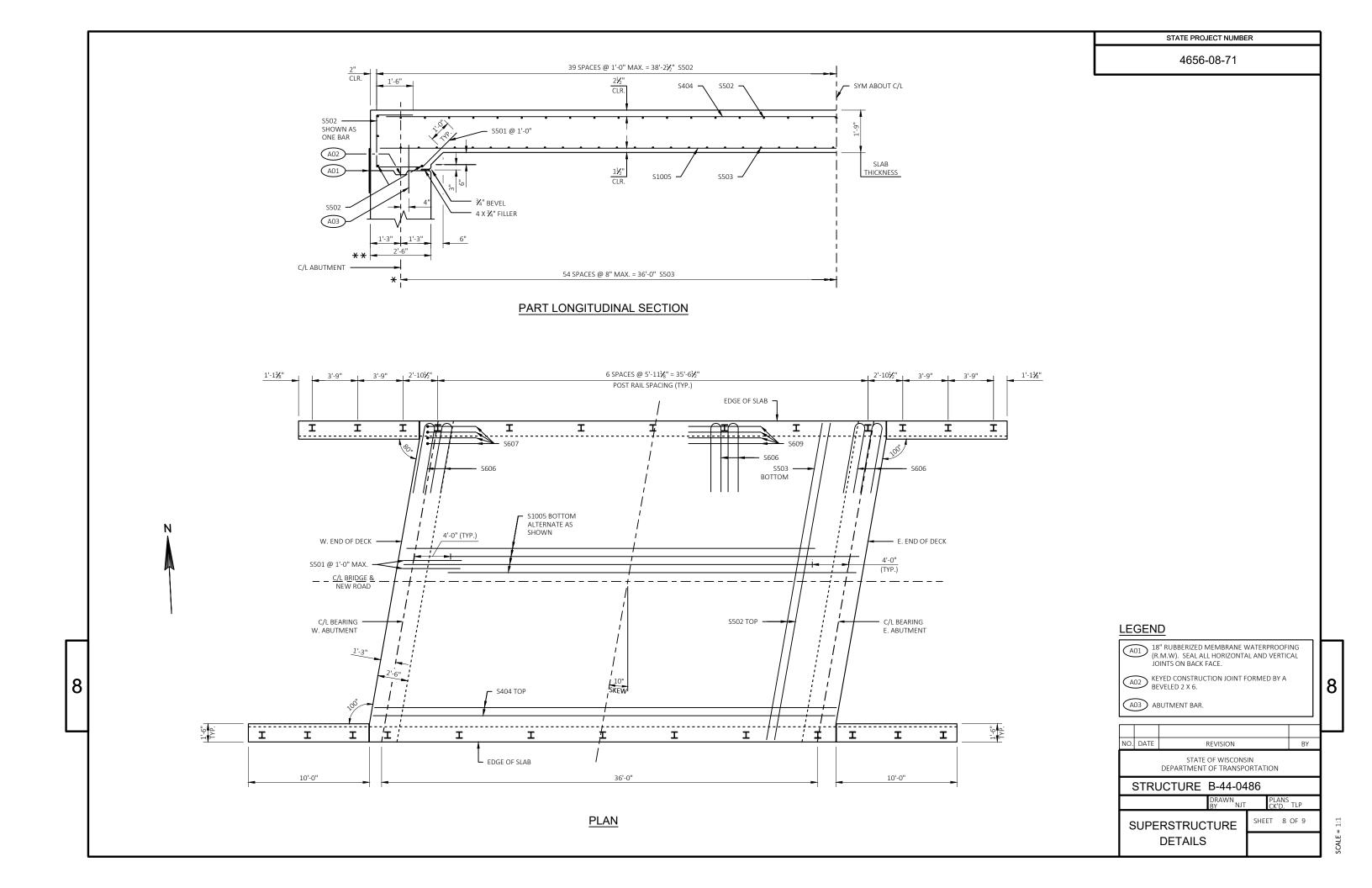


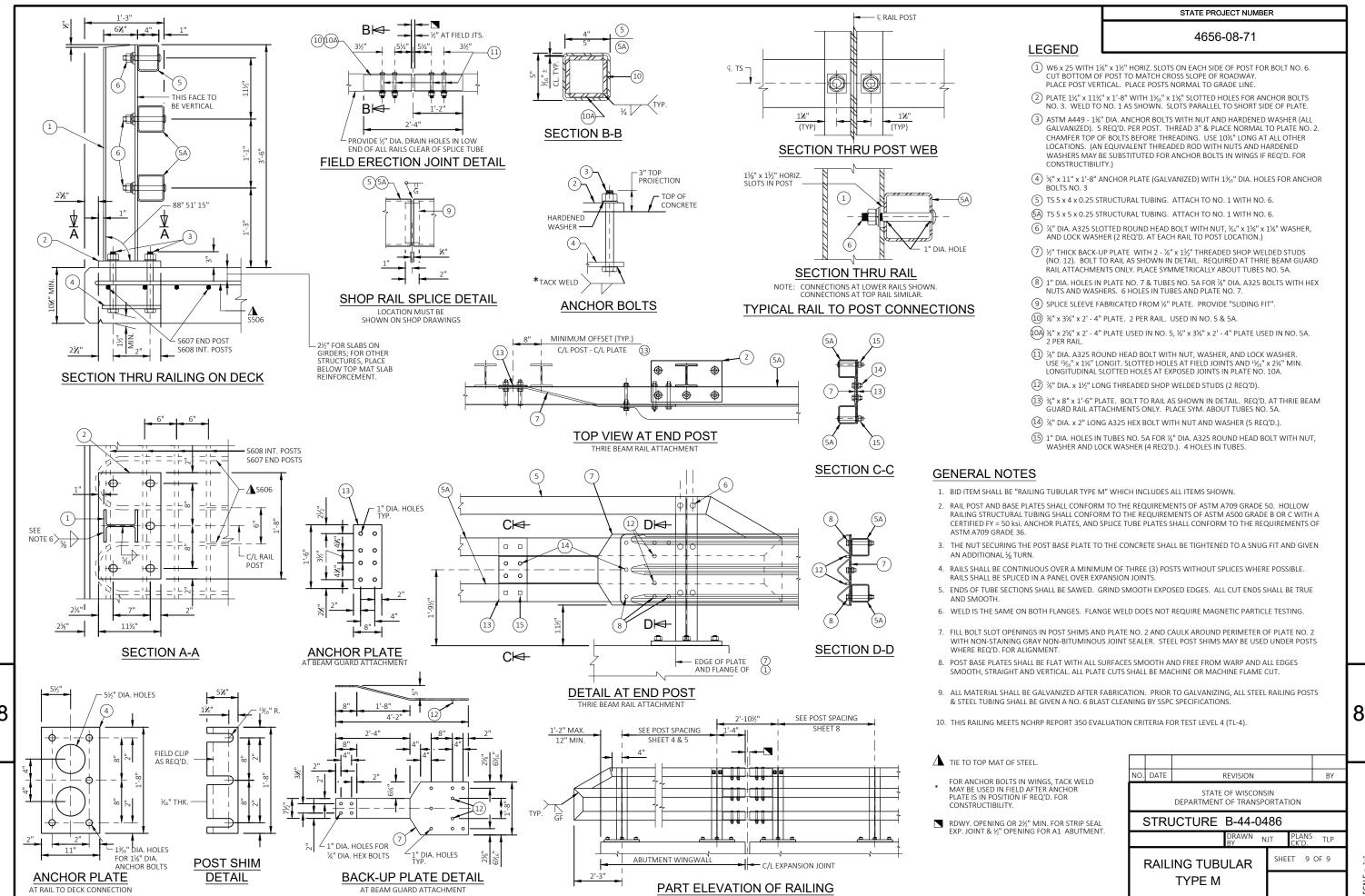






SCALE = 1





DIVISION 1 - LCL - NEW RD

DIVISION 1 -	LCL - NEW RD			1051 (05)			4531741 1/01 /01/1 /1/11/45			011111111111111111111111111111111111111	(0) (0)()
				AREA (SF)		INCREM	MENTAL VOL (CY) (UNAD	JUSTED)		CUMULATIVE V	OL (CY)
STATION	REAL STATION	DISTANCE	СПТ	SALVAGED/UNUSABLE	FILL	CUT	SALVAGED/UNUSABLE	FILL	СИТ	EXPANDED FILL	MASS ORDINATE
				PAVEMENT MATERIAL			PAVEMENT MATERIAL		1.00	1.25	
						NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
09+26	926.00	0.00	16.50	15.04	0.00	0	0	0	0	0	0
09+36	936.00	10.00	31.29	15.04	13.54	9	3	3	9	4	2
09+50	950.00	14.00	25.36	15.04	35.77	15	8	13	24	20	-7
09+68.66	968.66	18.66	24.05	15.04	71.19	17	10	37	41	66	-46
09+72.80	972.80	4.14	11.27	7.92	45.24	3	2	9	44	78	-57
				COLUMN	TOTALS	44	23	62			

DIVISION 2 - LCL - NEW RD

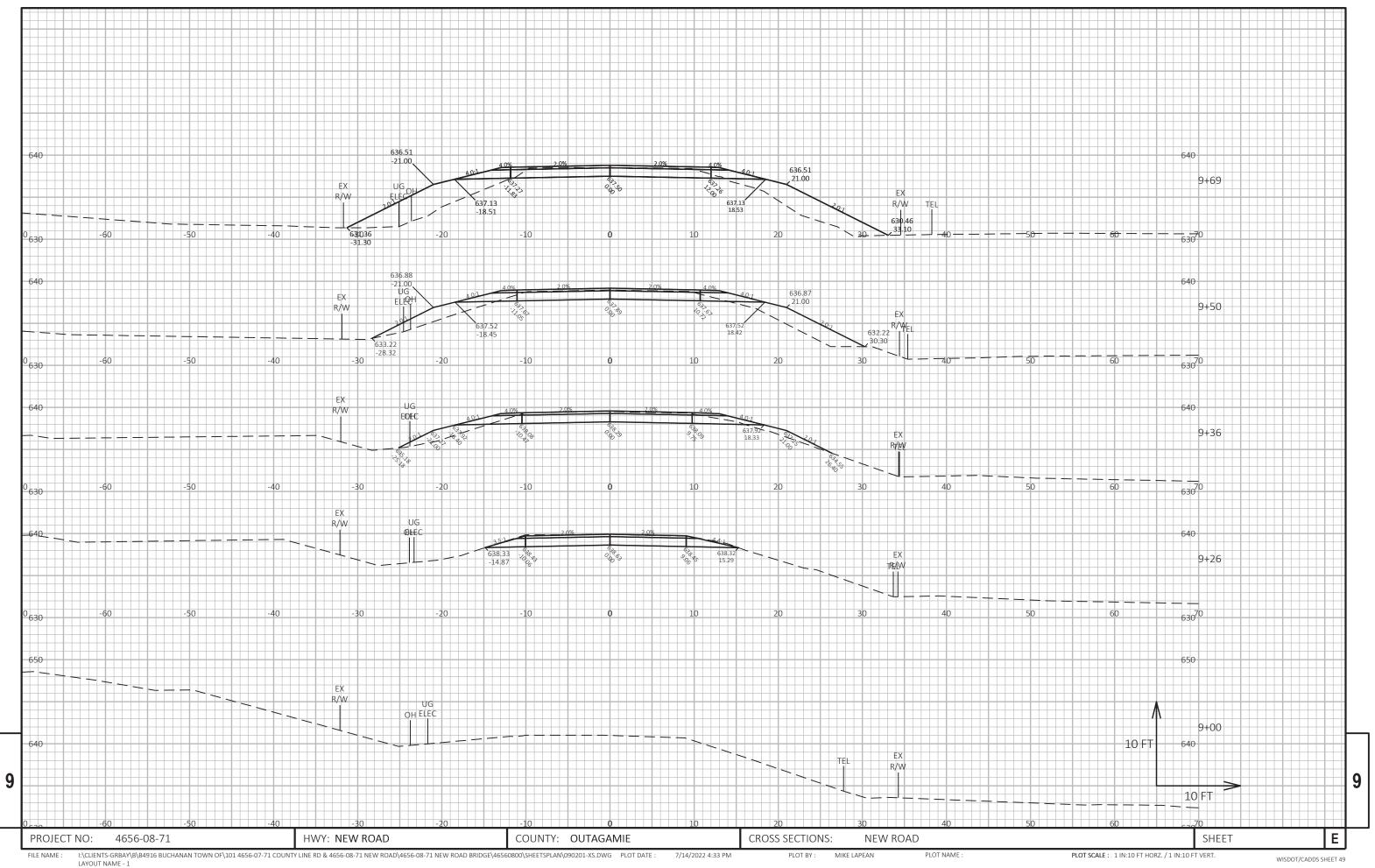
DIVISION 2 - ECL - NEW ND											
			AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
STATION	REAL STATION	DISTANCE	сит	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	СИТ	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL	MASS ORDINATE
				PAVEMENT MATERIAL		NOTE 1	NOTE 2	NOTE 3	NOTE 1	1.23	NOTE 8
10+27.20	1027.20	0.00	13.65	2.92	11.23	0	0	0	0	0	0
10+31.34	1031.34	4.14	27.78	5.69	33.91	3	1	3	3	4	-2
10+50	1050.00	18.66	31.92	5.83	20.21	21	4	19	24	28	-9
10+64	1064.00	14.00	33.50	6.13	14.19	17	3	9	41	39	-6
10+74	1074.00	10.00	33.89	6.13	0.00	12	2	3	53	43	1
				COLUMN	TOTALS	53	10	34			

Notes:		
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL	
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS	
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME	
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL - EXPANDED ROCK) * FILL FACTOR)]	MARSH AND EBS ARE NOT USABLE OUTSIDE THE 1:1 SLOPES

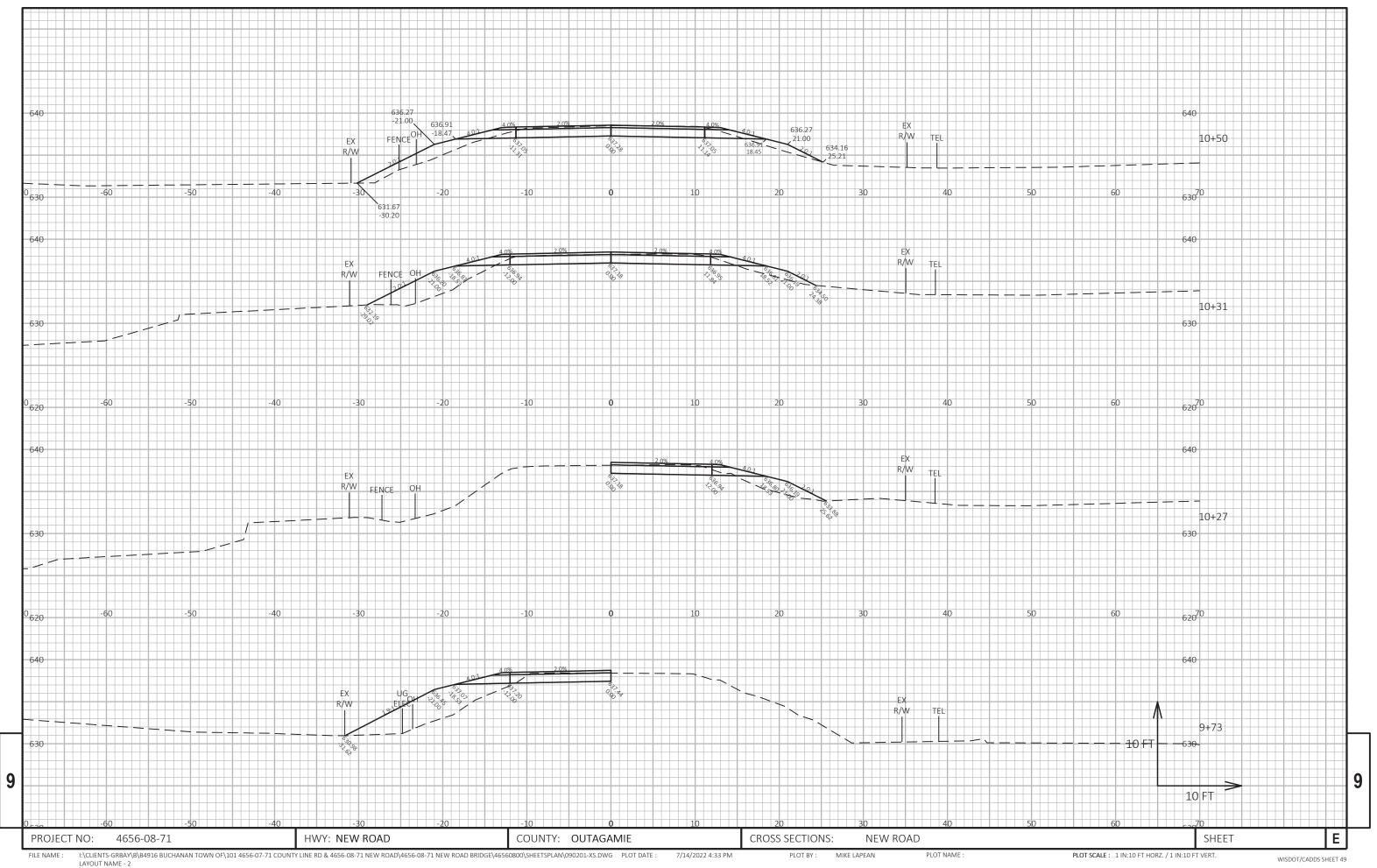
9

Ε HWY: NEW ROAD SHEET PROJECT NO: 4656-08-71 COUNTY: OUTAGAMIE EARTHWORK QUANTITIES

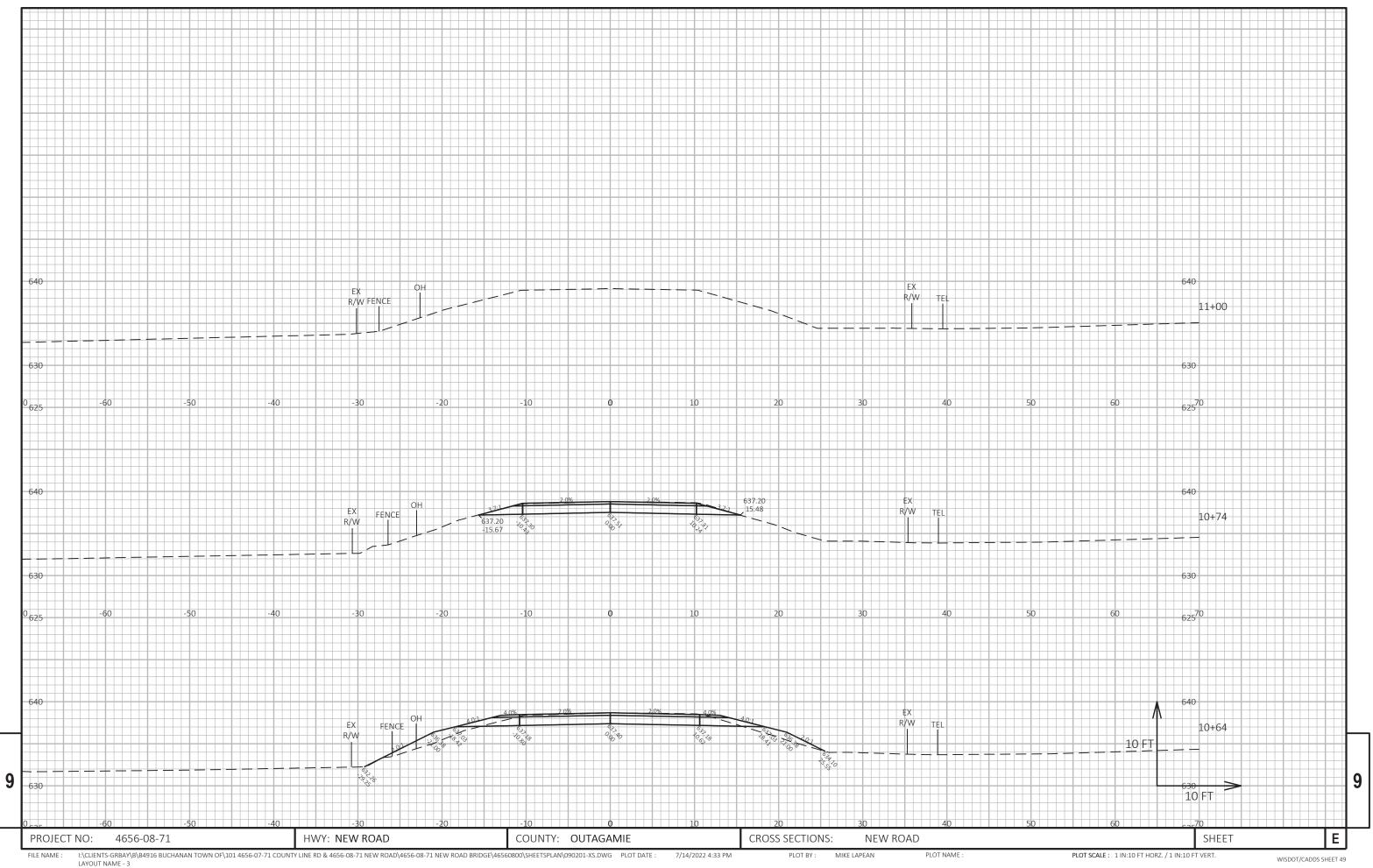
PLOT NAME :



LAYOUT NAME - 1

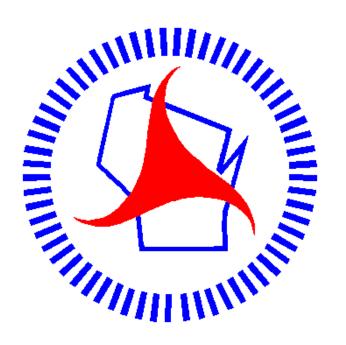


DATOOT MAINLE-2



LATOUT MAINE - 5

Notes



# Wisconsin Department of Transportation

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