DECEMBER 2021

ORDER OF SHEETS

Section No. 1

Section No. 2

Section No. 3 Section No. 3

Section No. 4

Section No. 5 Section No. 6

Section No. 7

Section No. 8

TOTAL SHEETS = 52

Typical Sections, Details, and Erosion Control

Estimate of Quantities

Right of Way Plat Plan and Profile

Sign Plates

Section No. 9 Computer Earthwork Data

Section No. 9 Cross Sections

Structure Plans

Miscellaneous Quantities

Standard Detail Drawings

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  GAS  SANITARY SEWER  FORKS  RD  FORKS  RD  31  FORKS  RD  FORKS RD  FO	Y	ERRY	PROJECT NUMBER  B - O O - 73  R-6-E  Leyville  A	5728 -	SANDY - ROCK RD Q			N A				
SLOPE INTERCEPT  REFERENCE LINE  EXISTING CULVERT  PROPOSED CULVERT  (Box or Pipe)  SANITARY SEWER  CULVERT (Profile View)  UTILITIES  ELECTRIC  — E  — FO  — G  SANITARY SEWER  CULVERT (Profile View)  (Culvert (Profile Vi	30n	N RD Kittleson	KITTLESC VINLEY RD	RD JEGLUM	RIVER FORKS RD BERG	OJECT 2.47	B-13-0691  BEGIN PROJ  STA. 10+52.  X=701,501.95  Y=409,785.08  UND  OCK PROFILE  ed as such)  H	PROFILE GRADE LINE ORIGINAL GROUI MARSH OR ROO (To be note SPECIAL DITCH	PH )	(2022) = 60 (2042) = 65 (2042) = 10 = 62/38 = 7.7% EED = 30 MP = 9,000 ONAL SYMBOLS E LIMITS LINE SHWAY EASEMENT IGHT OF WAY	A.A.D.T. (20) A.A.D.T. (20) D.H.V. (20) D.D. T. DESIGN SPEED ESALS  CONVENTION PLAN CORPORATE LI PROPERTY LIN LOT LINE LIMITED HIGHW EXISTING RIGHT	OUNTY: DAN
TELEPHONE — T — SCALE O 0.5 MI.	ordinates on t Coordinate Sy: Elevations sh American	Coordi Eleva		SCALE C		— E — — — — — — — — — — — — — — — — — —	ofile View)  - WER - R - STAL	CULVERT (Pro- UTILITIES ELECTRIC FIBER OPTIC GAS SANITARY SEWE STORM SEWER TELEPHONE WATER UTILITY PEDES: POWER POLE	CANTON	ERCEPT LINE ULVERT CULVERT PIPO) LE FLUIDS	SLOPE INTERCI REFERENCE LIN EXISTING CULV PROPOSED CUI (Box or PIP COMBUSTIBLE	

FEDERAL PROJECT STATE PROJECT PROJECT CONTRACT 5728-00-73

## TOWN OF PERRY, DRAMMEN VALLEY RD

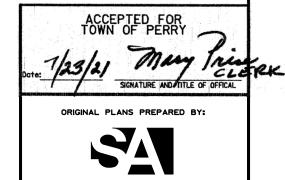
STATE OF WISCONSIN

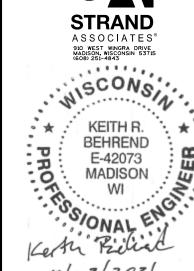
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

(PLEASANT VALLEY BR BRIDGE, B-13-0691)

LOCAL STREET DANE COUNTY





#### STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PREPARED BY Surveyor Designer

STRAND ASSOCIATES, INC. STRAND ASSOCIATES, INC.

Regional Examiner \_\_\_\_

TRAVIS BUROS, P.E. OSCAR WINGER, P.E. Regional Supervisor \_\_\_

APPROVED FOR THE DEPARTMENT

DATE: 7/26/2021

Coordinates on this plan are referenced to the Wisconsin County Coordinate System (WCCS), Dane County Zone, NAD 83 (2011)

Elevations shown on this plan are referenced to the North

American Vertical Datum of 1988 NAVD 88 (2012).

END PROJECT STA. 11+81.80

#### GENERAL NOTES

NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT APPROVAL

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

EROSION CONTROL FEATURES AS SHOWN ON THE PLANS ARE AT SUGGESTED LOCATIONS. THE ENGINEER MAY MODIFY LOCATIONS AS NEEDED, ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL SUCH TIME AS THE ENGINEER DETERMINES THE MEASURE IS NO LONGER NECESSARY.

THE LOCATION OF PROPOSED SIGNS AS SHOWN ON THE PLANS ARE APPROXIMATE. THE EXACT NUMBER OF SIGNS AND SIGN LOCATIONS ARE TO BE APPROVED BY THE ENGINEER IN THE FIELD.

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY SHALL BE RESTORED AS DIRECTED BY THE ENGINEER. SILT FENCE SHALL BE PLACED AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER AND IN PLACE PRIOR TO CONSTRUCTION.

WETLANDS EXIST IN THE PROJECT AREA. DO NOT DISTURB AREAS OUTSIDE THE SLOPE INTERCEPTS.

#### ASPHALT BID/MIX SPECIFICATIONS

	THICKNESS	BID/MIX SPECIFICATIONS
UPPER LAYER	1.75 INCHES	4 LT 58-28S
LOWER LAYER	2.25 INCHES	3 LT 58-28S

#### UTILITIES

#### ALLIANT ENERGY \*\*

CURTIS VACHA 490 SHAKERAG STREET MINERAL POINT, WI 53565 PH: (608) 341-9623 curtisvacha@alliantenergy.com

#### TDS TELECOM \*\*

JERRY MYERS 525 JUNCTION ROAD MADISON, WI 53717 PH: (608) 664-4404 jerry.myers@tdstelecom.com

\*\* DENOTES DIGGERS HOTLINE MEMBER

#### OTHER CONTACTS

#### DESIGN CONSULTANT

KEITH BEHREND STRAND ASSOCIATES, INC. 910 W WINGRA DR MADISON, WI 53715 PH: (608) 251-4843 keith.behrend@strand.com

#### TOWN OF PERRY

ROGER KITTLESON, TOWN CHAIRMAN 10084 COUNTY HIGHWAY A MOUNT HOREB, WI 53572 PH: (608) 523-4379 kittlesonroger@gmall.com

#### WISDNR

ERIC HEGGELUND DNR SOUTH CENTRAL REGION 3911 FISH HATCHERY ROAD FITCHBURG, WI 53711 PH: (608) 275-3301 eric.heggelund@wisconsin.gov



PROJECT NO: 5728-00-73

HWY: DRAMMEN VALLEY ROAD

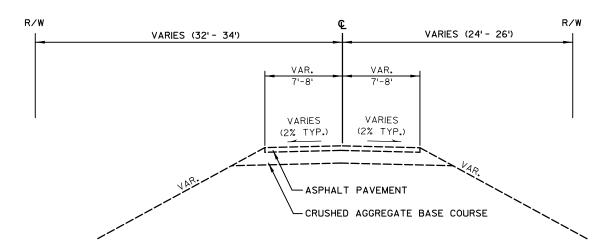
COUNTY: DANE

GENERAL NOTES

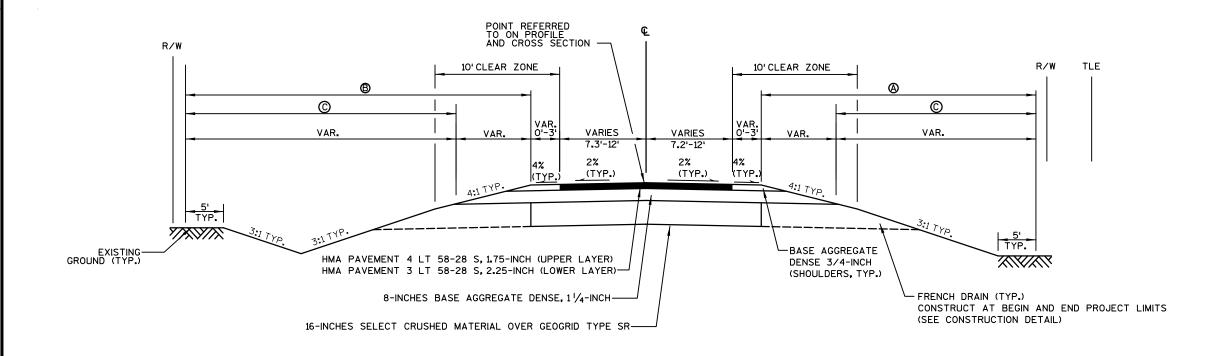
SHEET

PLOT NAME :





## DRAMMEN VALLEY ROAD



- SEEDING MIXTURE NO. 20 OR SEEDING MIXTURE NO. 60; AND FERTILIZER TYPE A.
- B SEEDING MIXTURE NO. 20 OR SEEDING MIXTURE NO. 60.
- © SALVAGED TOPSOIL; AND MULCHING OR EROSION MAT CLASS III TYPE B AND SOIL STABILIZER TYPE A.

PROJECT NO: 5728-00-73 HWY: DRAMMEN VALLEY RD

COUNTY: DANE

PROPOSED TYPICAL SECTION
DRAMMEN VALLEY ROAD

STA. 10+52.47 - STA. 11+81.80

TYPICAL SECTIONS

PLOT BY: \_username\_

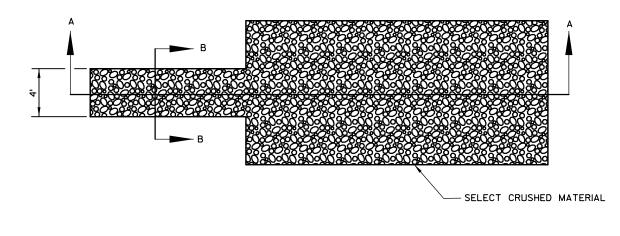
SHEET

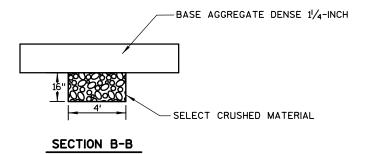
STILL I

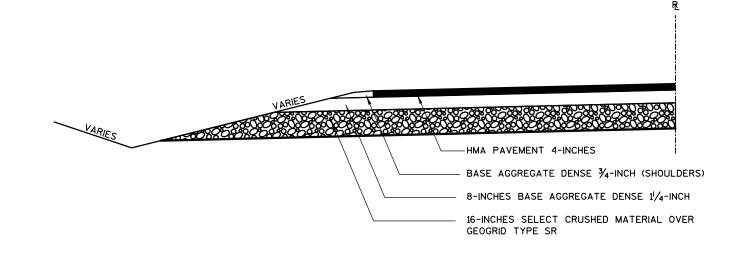
#### RUNOFF COEFFICIENT TABLE

		HYDROLOGIC SOIL GROUP										
		А			В	i		С		D		
	SL0PE	RANGE	(PERCENT)	SLOPE	RANGE	(PERCENT)	SLOPE	RANGE	(PERCENT)	SLOPE	RANGE	(PERCENT)
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	.08	.16 .30	.22 .38	.12	.20 .34	.27 .44	.15	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56
MEDIAN STRIP- TURF	.19	.20 .26	.24 .30	.19 .25	.22	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40
SIDE SLOPE- TURF			.25 .32			.27 .34			.28 .36			.30
PAVEMENT:	•					•	•		•	•		
ASPHALT						.7095						
CONCRETE						.8095						
BRICK						.7080						
DRIVES, WALKS	•	_			_	.7585		_			_	
ROOFS						.7595						
GRAVEL ROADS,	SHOULDE	ERS				.4060						

TOTAL PROJECT AREA = 0.22 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.15 ACRES







SECTION A-A

#### FRENCH DRAIN DETAIL

CONSTRUCT AT PROJECT LIMITS.

EXCAVATION REQUIRED TO CONSTRUCT FRENCH DRAINS SHALL BE INCLUDED WITH THE ITEM SELECT CRUSHED MATERIAL.

HWY: DRAMMEN VALLEY ROAD PROJECT NO:5728-00-73 FILE NAME: S:\MAD\4500--4599\4599\003\Drawings\CAD\Micros\PLAN\021001\_cd.dgn

COUNTY: DANE

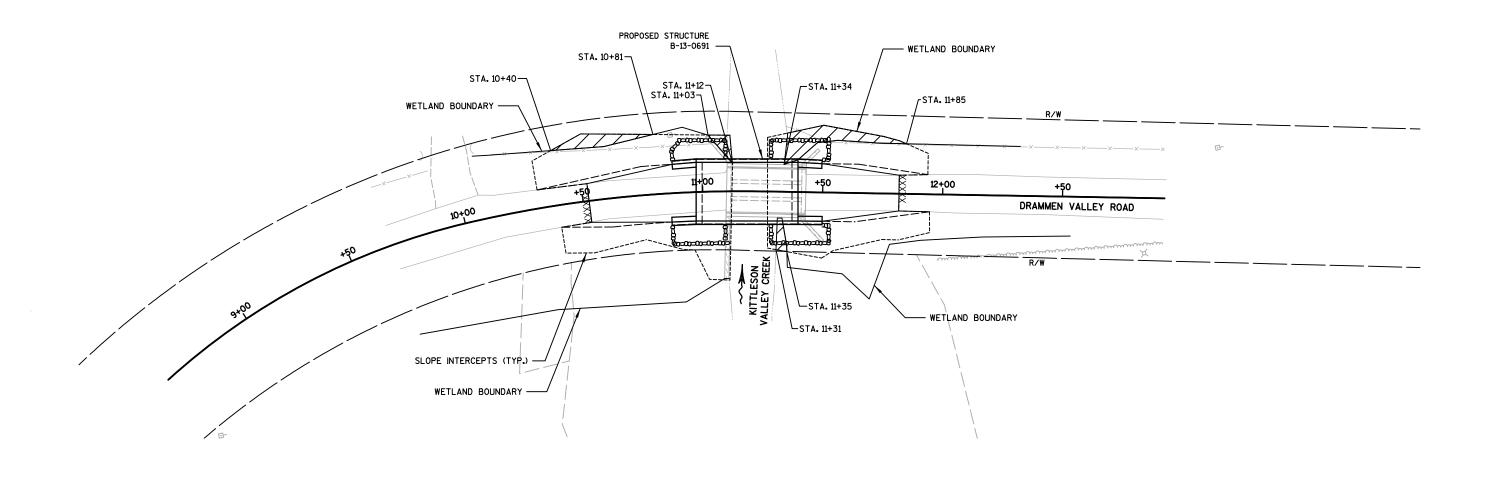
CONSTRUCTION DETAIL

PLOT NAME :

PLOT SCALE: \$\$.....plo†scale.....\$\$ wisdot/cadds SHEET 42

SHEET



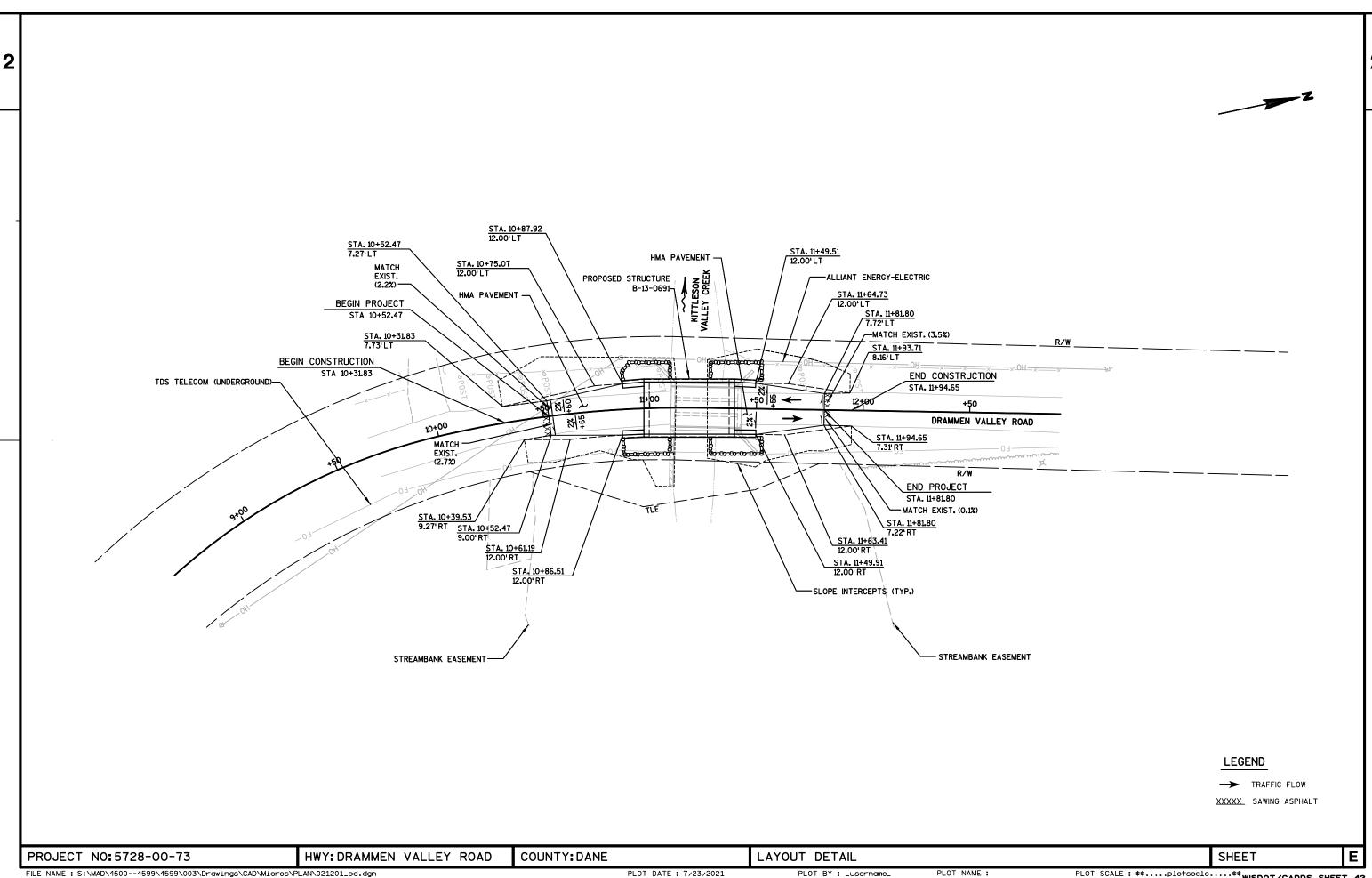




WETLAND IMPACTS

IMPACT LOCATION STATION	IMPACT TYPE	AREA ACRES
10+40 - 10+81 LT	М	0.003
11+03 - 11+12 LT	М	0.001
11+31 - 11+35 RT	М	0.001
11+34 - 11+85 LT	М	0.007

PROJECT NO:5728-00-73 HWY:DRAMMEN VALLEY ROAD COUNTY:DANE WETLAND DETAIL SHEET **E** 

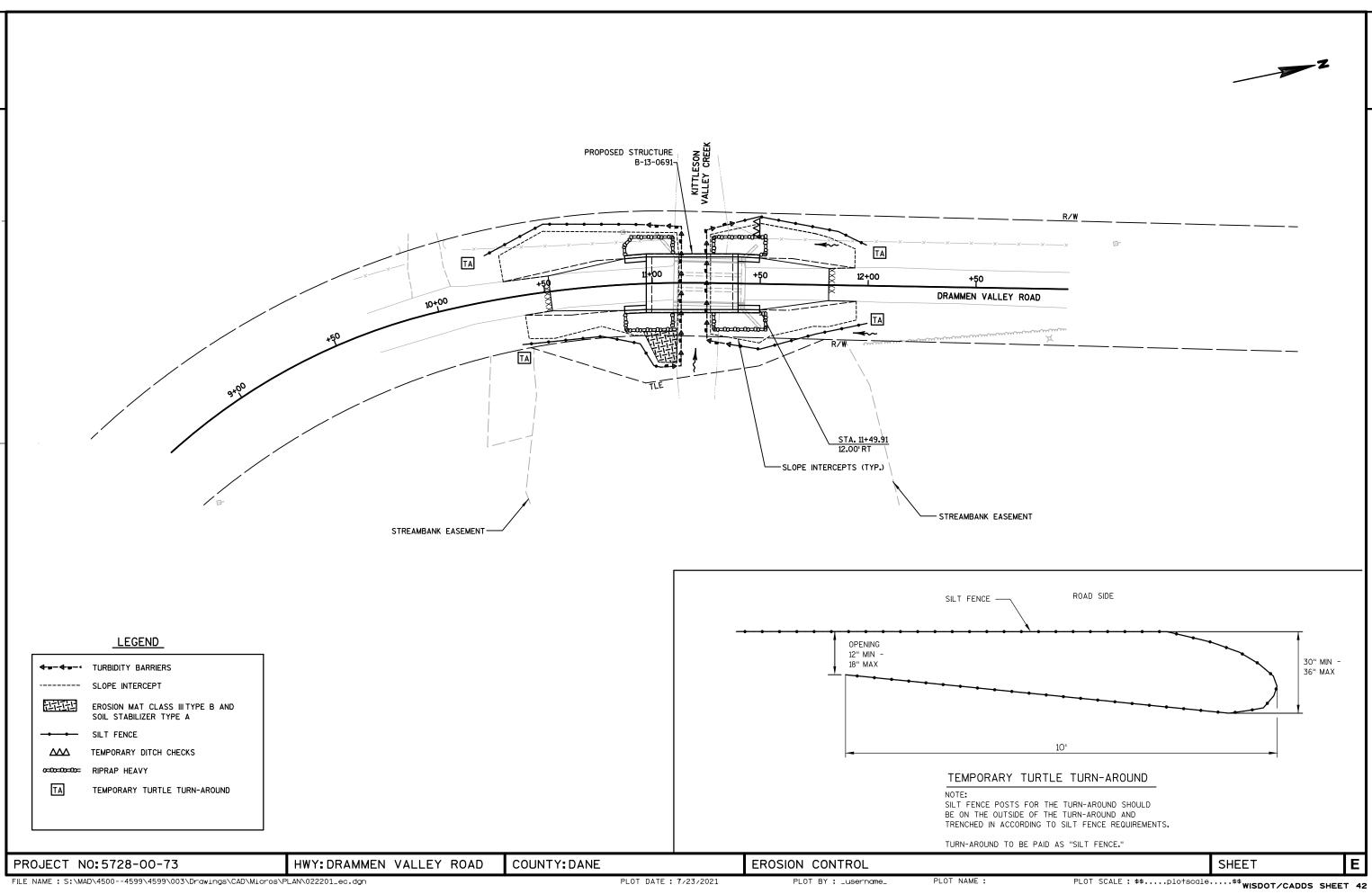


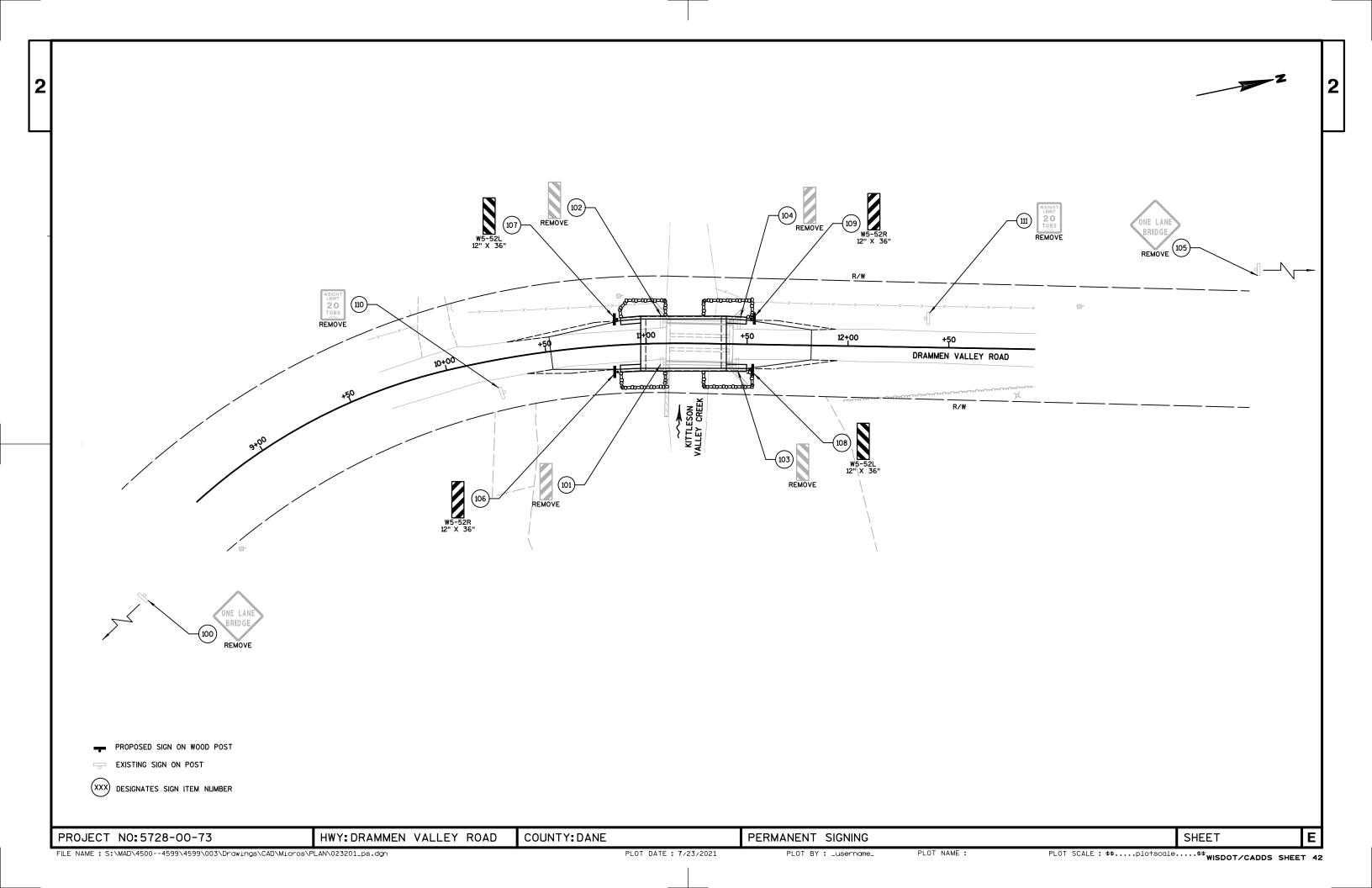
FILE NAME: S:\MAD\4500--4599\4599\003\Drawings\CAD\Micros\PLAN\021201\_pd.dgn

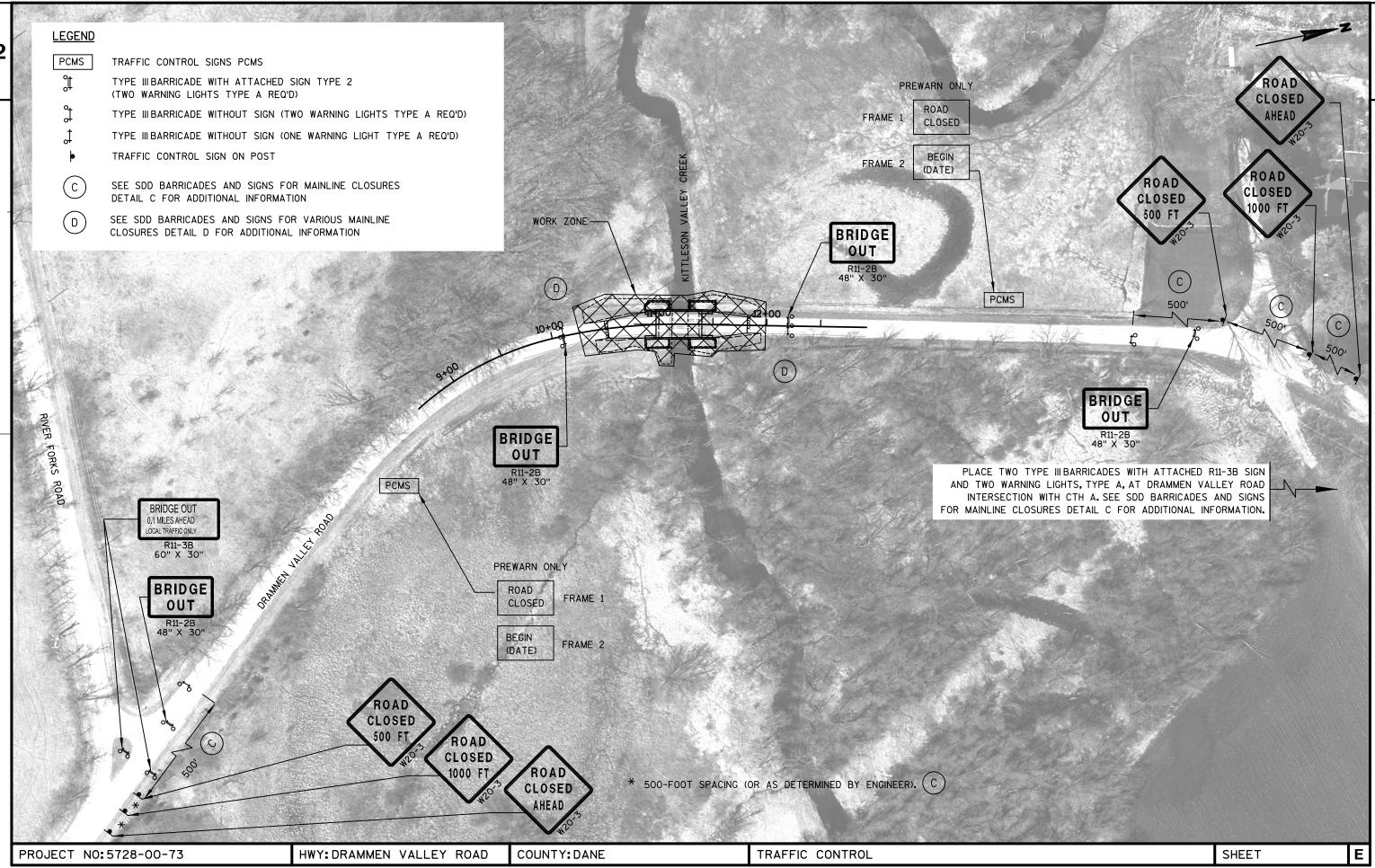
PLOT DATE : 7/23/2021

PLOT BY: \_username\_

PLOT SCALE: \$\$.....plotscale.....\$\$ wisdot/cadds SHEET 42







5728-	00	-73
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					5728-00-73
Line	Item	Item Description	Unit	Total	Qty
0002	203.0260	Removing Structure Over Waterway Minimal Debris (structure) 01. P-13-224	EACH	1.000	1.000
0004	204.9060.S		EACH	6.000	6.000
0006	205.0100	Excavation Common	CY	187.000	187.000
0008	206.1000	Excavation for Structures Bridges (structure) 01. B-13-691	LS	1.000	1.000
0010	210.1500	Backfill Structure Type A	TON	216.000	216.000
0012	213.0100	Finishing Roadway (project) 01. 5728-00-73	EACH	1.000	1.000
0014	305.0110	Base Aggregate Dense 3/4-Inch	TON	10.000	10.000
0016	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	118.000	118.000
0018	312.0110	Select Crushed Material	TON	204.000	204.000
0018	455.0605	Tack Coat	GAL	10.000	10.000
0020	460.2000	Incentive Density HMA Pavement	DOL	30.000	30.000
		•			
0024	460.5223	HMA Payament 4 LT 58-28 S	TON	25.000	25.000
0026	460.5224	HMA Pavement 4 LT 58-28 S	TON	19.000	19.000
0028	502.0100	Concrete Masonry Bridges	CY	154.000	154.000
0030	502.3200	Protective Surface Treatment	SY	116.000	116.000
0032	502.3210	Pigmented Surface Sealer	SY	62.000	62.000
0034	505.0400	Bar Steel Reinforcement HS Structures	LB	3,160.000	3,160.000
0036	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	22,070.000	22,070.000
0038	516.0500	Rubberized Membrane Waterproofing	SY	18.000	18.000
0040	550.0500	Pile Points	EACH	8.000	8.000
0042	550.1100	Piling Steel HP 10-Inch X 42 Lb	LF	220.000	220.000
0044	606.0300	Riprap Heavy	CY	129.000	129.000
0046	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	134.000	134.000
0048	618.0100	Maintenance And Repair of Haul Roads (project) 01. 5728-00-73	EACH	1.000	1.000
0050	619.1000	Mobilization	EACH	1.000	1.000
0052	624.0100	Water	MGAL	3.000	3.000
0054	625.0500	Salvaged Topsoil	SY	390.000	390.000
0056	627.0200	Mulching	SY	610.000	610.000
0058	628.1504	Silt Fence	LF	405.000	405.000
0060	628.1520	Silt Fence Maintenance	LF	615.000	615.000
0062	628.1905	Mobilizations Erosion Control	EACH	3.000	3.000
0064	628.1910	Mobilizations Emergency Erosion Control	EACH	3.000	3.000
0066	628.2033	Erosion Mat Class III Type B	SY	24.000	24.000
0068	628.6005	Turbidity Barriers	SY	164.000	164.000
0070	628.6505	Soil Stabilizer Type A	ACRE	0.010	0.010
0072	628.7504	Temporary Ditch Checks	LF	15.000	15.000
0074	628.7560	Tracking Pads	EACH	2.000	2.000
0076	629.0205	Fertilizer Type A	CWT	0.300	0.300
0078	630.0120	Seeding Mixture No. 20	LB	10.000	10.000
080	630.0160	Seeding Mixture No. 60	LB	3.000	3.000
0082	630.0300	Seeding Borrow Pit	LB	6.000	6.000
0082	630.0500	Seed Water	MGAL	16.000	16.000
0086	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	4.000	4.000
0088	637.2230	Signs Type II Reflective F	SF	12.000	12.000
0090	638.2602	Removing Signs Type II	EACH	8.000	8.000
0090	638.3000	Removing Small Sign Supports	EACH	8.000	8.000
0092	642.5001	Field Office Type B	EACH	1.000	1.000
0096	643.0420	Traffic Control Barricades Type III	DAY	528.000	528.000
0098		· ·			
8	643.0705	Traffic Control Warning Lights Type A	DAY	968.000	968.000

0124 0126 715.0502 Incentive Strength Concrete Structures

999.2000.S Installing and Maintaining Bird Deterrent System (station) 01. Sta. 11+26

5728-00-73

924.000

1.000

DOL

EACH

924.000

1.000

Line	Item	Item Description	Unit	Total	Qty
0100	643.0900	Traffic Control Signs	DAY	616.000	616.000
0102	643.1050	Traffic Control Signs PCMS	DAY	14.000	14.000
0104	643.5000	Traffic Control	EACH	1.000	1.000
0106	645.0111	Geotextile Type DF Schedule A	SY	70.000	70.000
0108	645.0120	Geotextile Type HR	SY	244.000	244.000
0110	645.0220	Geogrid Type SR	SY	240.000	240.000
0112	650.4500	Construction Staking Subgrade	LF	120.000	120.000
0114	650.5000	Construction Staking Base	LF	120.000	120.000
0116	650.6500	Construction Staking Structure Layout (structure) 01. B-13-0691	LS	1.000	1.000
0118	650.9910	Construction Staking Supplemental Control (project) 01. 5728-00-73	LS	1.000	1.000
0120	650.9920	Construction Staking Slope Stakes	LF	120.000	120.000
0122	690.0150	Sawing Asphalt	LF	31.000	31.000

REMOVING	CONCRETE	POSTS

			204.9060.S 01. CONCRETE POSTS
CATEGORY	STATION	LOCATION	EACH
0010	10+42	LT	1
	10+53	LT	1
	11+05	LT	1
	11+51	LT	1
	11+70	LT	1
	11+96	LT	1
		TOTAL	6

	FINISHING ROADWA	Υ
		0.7 0.00 0.4
		213.0100.01
CATEGORY	PROJECT	EACH
0010	5728-00-73	1

			*
	305.0110	305.0120	312.0110
	BASE AGGREGATE	BASE AGGREGATE	SELECT CRUSHED
	DENSE 3/4-INCH	DENSE 11/4-INCH	MATERIAL
STATION - STATION	TON	TON	TON
10+32 - 10+97	5	62	96
11+40 - 11+95	5	56	88
			184
	10+32 - 10+97	BASE AGGREGATE DENSE 3/4-INCH STATION - STATION TON  10+32 - 10+97 5 11+40 - 11+95 5	BASE AGGREGATE DENSE 3/4-INCH DENSE 11/4-INCH STATION - STATION TON TON  10+32 - 10+97 5 62 11+40 - 11+95 5 56

<sup>\*</sup>ADDITIONAL QUANTITIES LISTED ELSEWHERE

#### ASPHALTIC ITEMS

		460.5223	460.5224	455.0605
		HMA PAVEMENT	HMA PAVEMENT	TACK
		3 LT 58-28 S	4 LT 58-28 S	COAT
CATEGORY	STATION - STATION	TON	TON	GAL
0010	10+52 - 10+97	13	10	5
0010	11+40 - 11+82	12	9	5
	11+40 - 11+62	12	3	5
	TOTALS	25	19	10

MAINTENA	NCE AND REPAIR OF	HAUL ROADS			MOBILIZATION	
CATEGORY	PROJECT	618.0100.01 EACH	CA	TEGORY	PROJECT	619 <b>.</b> 1000 EACH
0030	5728-00-73	1		0010	5728-00-73	1.00

NOTE: HMA PAVEMENT WEIGHT CALCULATIONS BASED ON 112 LB/SY/IN.

												*
				205.0100								312.0110
												SELECT
			EXC	AVATION COMMON (1)	STRUCTURE	AVAILABLE	EXPANDED EBS	UNEXPANDED	EXPANDED	MASS ORDINATE	WASTE	CRUSHED
			CUT (2)	EBS EXCAVATION (3)	EXCAVATION (4)	MATERIAL (4)	BACKFILL (5)	FILL	FILL (6)	+/- (7)	(8)	MATERIAL (9)
							FACTOR		FACTOR			
				5% OF CUT			1.25		1.25			
CATEGORY	LOCATION	STATION - STATION	CY	CY	CY	CY	CY	CY	CY	CY	CY	TON
0010	DRAMMEN VALLEY ROAD	10+52.47 - 11+81.80	178	9	183	361	11	25	31	330	330	20
		ITEM TOTALS		187	_							

<sup>\*</sup>ADDITIONAL QUANTITIES LISTED ELSEWHERE

- 1) EXCAVATION COMMON IS THE SUM OF THE CUT AND EBS EXCAVATION COLUMNS. ITEM NUMBER 205.0100.
- 2) SALVAGED/UNUSABLE PAVEMENT MATERIAL IS INCLUDED IN CUT.
- 3) EBS EXCAVATION TO BE BACKFILLED WITH SELECT CRUSHED MATERIAL.
- 4) AVAILABLE STRUCTURE EXCAVATION IS FOR INFORMATION ONLY AND IS INCLUDED IN BID ITEM "EXCAVATION FOR STRUCTURES B-13-0691"
- 5) EXPANDED EBS BACKFILL: THIS IS TO BE FILLED WITH SELECT CRUSHED MATERIAL EBS BACKFILL EXPANSION FACTOR = 1.25.
- 6) EXPANDED FILL = (UNEXPANDED FILL)\* EXPANDED FILL FACTOR. EXPANDED FILL FACTOR = 1.25.
- 7) MASS ORDINATE: MASS ORDINATE = CUT + AVAILABLE STRUCTURE EXCAVATION EXPANDED FILL

PLUS MASS ORDINATE QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS MASS ORDINATE QUANTITY INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.

- 8) WASTE = POSITIVE MASS ORDINATE, BORROW = NEGATIVE MASS ORDINATE
- 9) SELECT CRUSHED MATERIAL IS USED FOR BACKFILL OF EBS.

PROJECT NO:5728-00-73	HWY:DRAMMEN VALLEY ROAD	COUNTY: DANE	MISCELLANEOUS QUANTI	ITIES		SHEET	E
FILE NAME : S:\MAD\45004599\4599\003\Drawings\CAD\Micros\F	PLAN\030201_mq.dgn	PLOT DATE: 10/18/2021	PLOT BY: _username_	PLOT NAME :	PLOT SCALE: \$\$plotscale	\$\$ WISDOT (0.4 DDS	CUEET 47

	WATER		
CATEGORY	STATION - STATION	624.0100 MGAL	REMARKS
CATEGORI	STATION - STATION	MGAL	REWARKS
		1	DUST CONTROL
0010	10+32 - 11+95	2	COMPACTION
			_
	TOTAL	3	

	MOBILIZATIONS EROSION CONTROL											
			628.1905	628.1910								
				MOBILIZATIONS								
			MOBILIZATIONS	EMERGENCY								
			EROSION CONTROL	EROSION CONTROL								
CA	TEGORY	PROJECT	EACH	EACH								
	0010	5728-00-73	3	3								

CATEGORY LOCATION EACH  OO10 UNDISTRIBUTED 2		TRACKING PADS	
CATEGORY LOCATION EACH			628.7560
0010 UNDISTRIBUTED 2	CATEGORY	LOCATION	
	0010	UNDISTRIBUTED	2

	EROSION CONTROL											FINISHIN	G ITEMS					
			628.1504	628 <b>.</b> 1520 SILT	628.2033 EROSION MAT	628.6005	628.7504 TEMPORARY				625.0500	627.0200	628 <b>.</b> 6505 SOIL	629.0205	630.0120 SEEDING	630.0160 SEEDING	630.0300 SEEDING	630.0500
			SILT	FENCE	CLASS III	TURBIDITY	DITCH				SALVAGED		STABILIZER	FERTILIZER	MIXTURE	MIXTURE	BORROW	SEED
			FENCE	MAINTENANCE	TYPE B	BARRIERS	CHECKS				TOPSOIL	MULCHING	TYPE A	TYPE A	NO. 20	NO. 60	PIT	WATER
CATEGORY	STATION - STATION	LOCATION	LF	LF	SY	SY	<u>LF</u>	CATEGORY	STATION - STATION	LOCATION	SY	SY	ACRE	CWT	LB	LB	LB	MGAL
0010	10+32 - 11+15	LT/RT	175	260	19	71	12	0040	40 . 70 . 40 . 07	I T (DT	400	450	0.04	0.4	-			_
	11+25 - 11+95	LT/RT	150	230		60		0010	10+32 - 10+97	LT/RT	180	160	0.01	0.1	5	1		5
									11+40 - 11+95	LT/RT	130	130			3	1		4
		UNDISTRIBUTED	80	125	5	33	3			WASTE SITE		200		0.1			5	4
							-			UNDISTRIBUTED	80	120		0.1	2	1	1	3
-	TOTALS		405	615	24	164	15											
										TOTALS	390	610	0.01	0.3	10	3	6	16

		642.5001
CATEGORY	PROJECT	EACH
0010	5728-00-73	1

FIELD OFFICE TYPE B

				TRA	AFFIC CONTROL					
			643.	0900	643.	1050	643.0	1420	643.07	05
TRAFFIC CONTROL		DURATION	SIGNS		SIGNS PCMS		BARRICADES TYPE III		WARNING LIGHTS TYF	
CATEGORY	OPERATIONS	(DAYS)	EACH	DAY	EACH	DAY	EACH	DAY	EACH	DAY
0010	PRE WARNING	7			2	14				
	CLOSURE	44	14	616			12	528	22	968
		TOTALS		616		14		528		968

		643.5000
CATEGORY	PROJECT	EACH
0010	5728-00-73	1

TRAFFIC CONTROL

PROJECT NO:5728-00-73 HWY: DRAMMEN VALLEY ROAD COUNTY: DANE MISCELLANEOUS QUANTITIES SHEET

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		645.0220
CATEGORY	STATION - STATION	SY
0010	10+52 - 10+97	125
	11+40 - 11+82	115
-	TOT !!	0.40

GEOGRID TYPE SR

SIGNING SUMMARY

							637.2230	634.0612	638.2602	638.3000	
						SIGN SIZE	SIGNS TYPE II	POSTS WOOD 4×6-INCH	REMOVING SIGNS	REMOVING SMALL SIGN	
	SIGN	APPROX.		SIGN		(W × H)	REFLECTIVE F	× 12-FT	TYPE II	SUPPORTS	
CATEGORY	NO.	STA.	LOC.	CODE	SIGN MESSAGE	lN	SF	EACH	EACH	EACH	REMARKS
0010	100		RT	W5-3	ONE LANE BRIDGE	×			1	1	REMOVE
0010	101	11+09	RT	W5-52R	CLEARANCE STRIPER DOWN LEFT	x			1	1	REMOVE
	101	11+09	I T	W5-52L	CLEARANCE STRIPER DOWN RIGHT	×			1	1	REMOVE
									1	1	
	103	11+44	RT	W5-52R	CLEARANCE STRIPER DOWN LEFT	×			1	1	REMOVE
_	104	11+44	LT	W5-52L	CLEARANCE STRIPER DOWN RIGHT	x			1	1	REMOVE
	105		LT	W5-3	ONE LANE BRIDGE	×			1	1	REMOVE
	106	10+85	RT	W5-52R	CLEARANCE STRIPER DOWN LEFT	12 × 36	3.00	1			
	107	10+86	LT	W5-52L	CLEARANCE STRIPER DOWN RIGHT	12 × 36	3.00	1			
	108	11+52	RT	W5-52L	CLEARANCE STRIPER DOWN RIGHT	12 × 36	3.00	1			
	109	11+52	LT	W5-52R	CLEARANCE STRIPER DOWN LEFT	12 × 36	3.00	1			
-	110	10+26	RT	R12-1	WEIGHT LIMIT 20 TONS	×			1	1	REMOVE
	111	12+38	LT	R12-1	WEIGHT LIMIT 20 TONS	×			1	1	REMOVE
-					TOTALS		12.00	4	8	8	

CONSTRUCTION STAKING

			650.4500	650.5000	650.9920
					SLOPE
			SUBGRADE	BASE	STAKES
CATEGORY	STATION - STATION	LOCATION	LF	LF	LF
0010	10+32 - 10+97	LT/RT	65	65	65
	11+40 - 11+95	LT/RT	55	55	55
_					
	TOTALS		120	120	120

SAWING

		690.0150
		ASPHALT
CATEGORY	LOCATION	LF
0010	10+52	16
	11+82	15
_	TOTAL	31

INSTALLING AND MAINTAINING BIRD DETERRENT SYSTEM

		999.2000.S
CATEGORY	LOCATION	EACH
0010	STA. 11+26	1

PROJECT NO:5728-00-73

HWY: DRAMMEN VALLEY ROAD

COUNTY: DANE

MISCELLANEOUS QUANTITIES

SHEET

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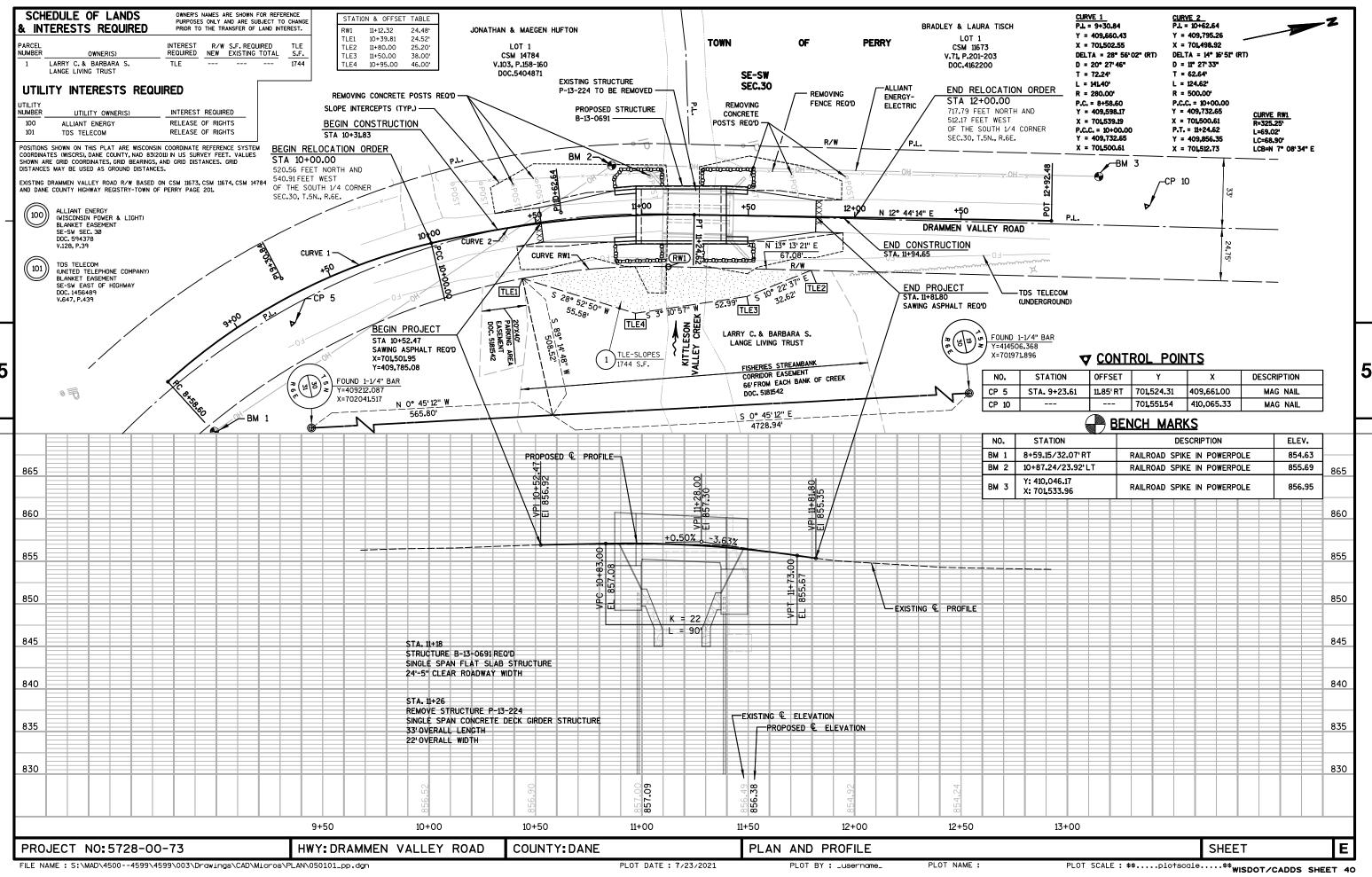
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PLOT DATE : 7/23/2021

PLOT BY: \_username\_

PLOT NAME :

PLOT SCALE: \$\$.....plotscale.....\$\$ wisdot/cadds SHEET 43



## Standard Detail Drawing List

08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E11-02	TURBIDITY BARRIER
08E14-01	TRACKING PAD
12A03-10	NAME PLATE (STRUCTURES)
13c19-03	HMA LONGITUDINAL JOINTS
15C02-08A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-08B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15c06-09	SIGNING & MARKING FOR TWO LANE BRIDGES
15С11-09В	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

6

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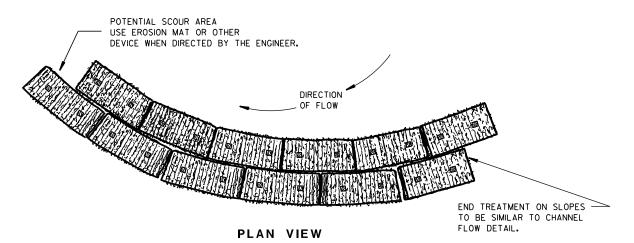
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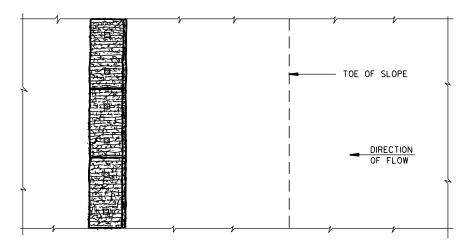
#### **GENERAL NOTES**

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

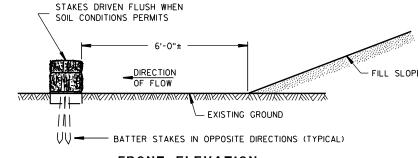
TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.



WHEN ALTERING THE DIRECTION OF FLOW



#### **PLAN VIEW**



#### FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

**EROSION BALES FOR SHEET FLOW** 

#### TYPICAL INSTALLATIONS OF **EROSION BALES / TEMPORARY** DITCH CHECKS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

6/04/02 /S/ Beth Connestro
CHIEF ROADWAY DEVELOPMENT ENGINEER

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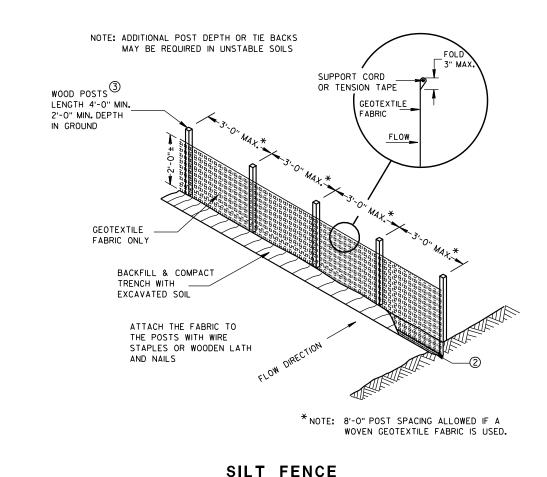
### TYPICAL APPLICATION OF SILT FENCE

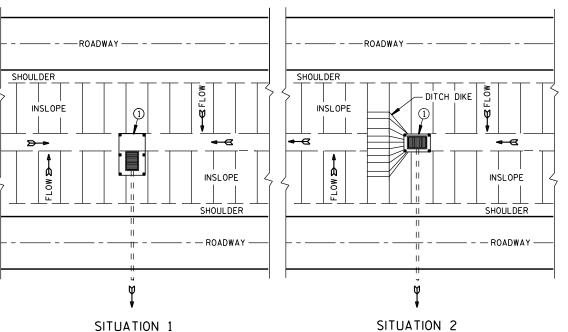
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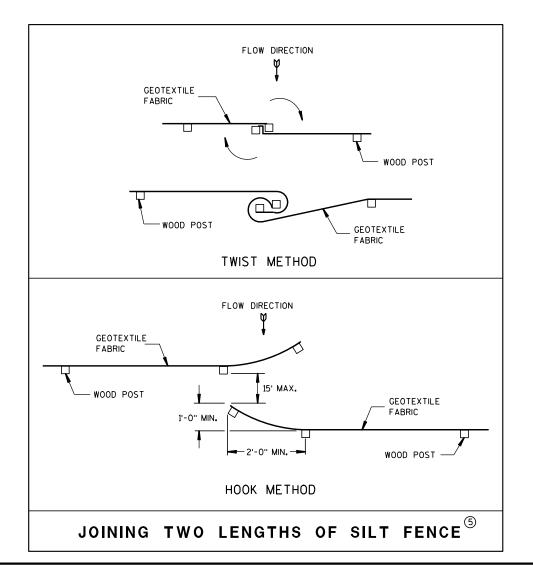
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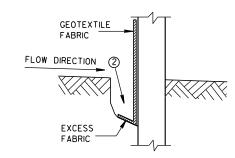
## PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



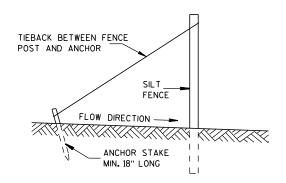
#### GENERAL NOTES

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

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



TRENCH DETAIL



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

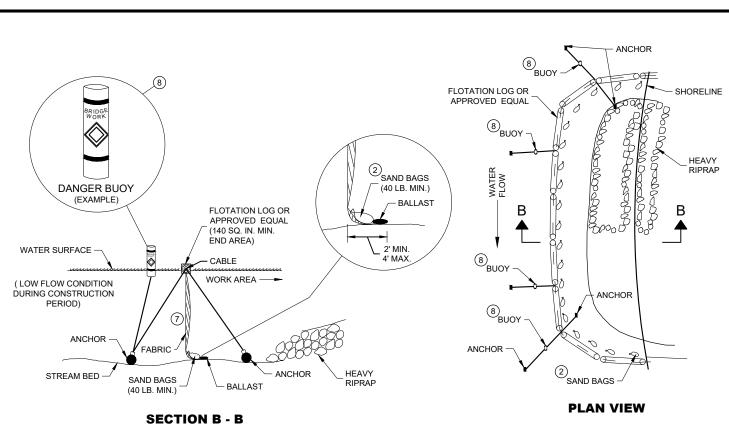
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

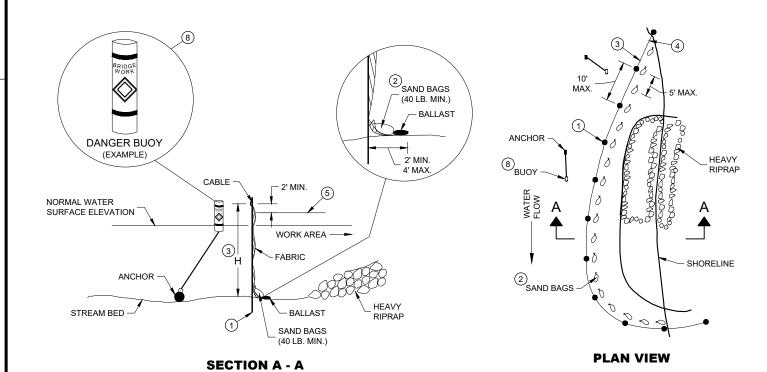
4-29-05
DATE
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

D.D. 8 E 9-6

6



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



**TURBIDITY BARRIER - STANDARD POST INSTALLATION** 

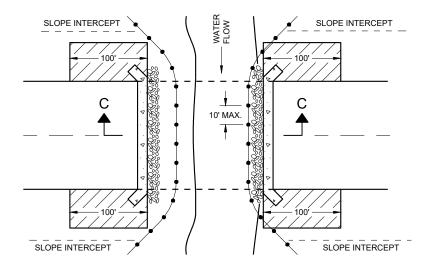
#### **TURBIDITY BARRIER PLACEMENT DETAILS**

#### **GENERAL NOTES**

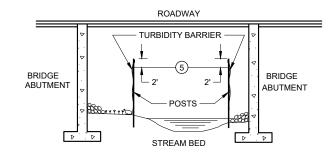
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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** 

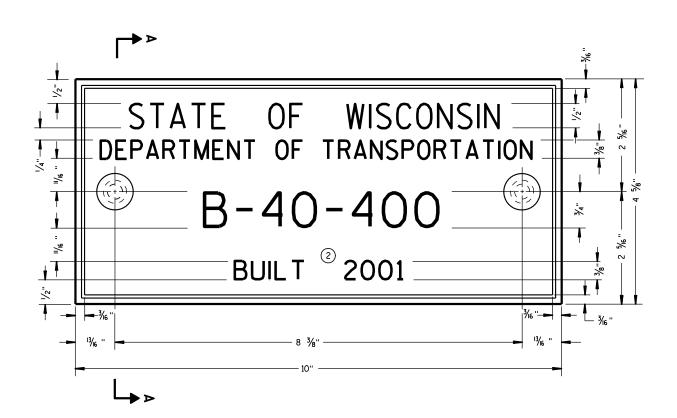
#### **TURBIDITY BARRIER DETAIL SHOWING TYPICAL PLACEMENT AT STRUCTURES**

## **TURBIDITY BARRIER**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION  $\infty$ 

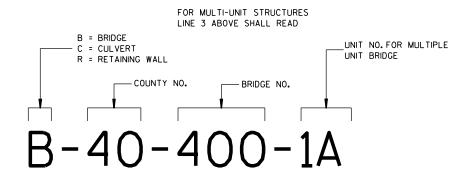
APPROVED	
6/4/02	/S/ Beth Cannestra
DATE	CHIEF ROADWAY DEVELOPMENT
	ENGINEER





#### TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)



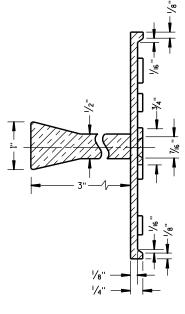
NUMBERING DESIGNATION **MULTI-UNIT STRUCTURES** 

#### **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.

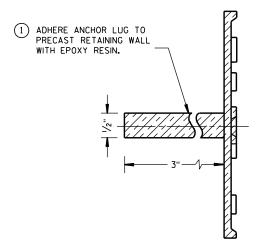
- (1) EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- (2) REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE



SPREAD TOP OF

SECTION A-A

ALTERNATE LUG



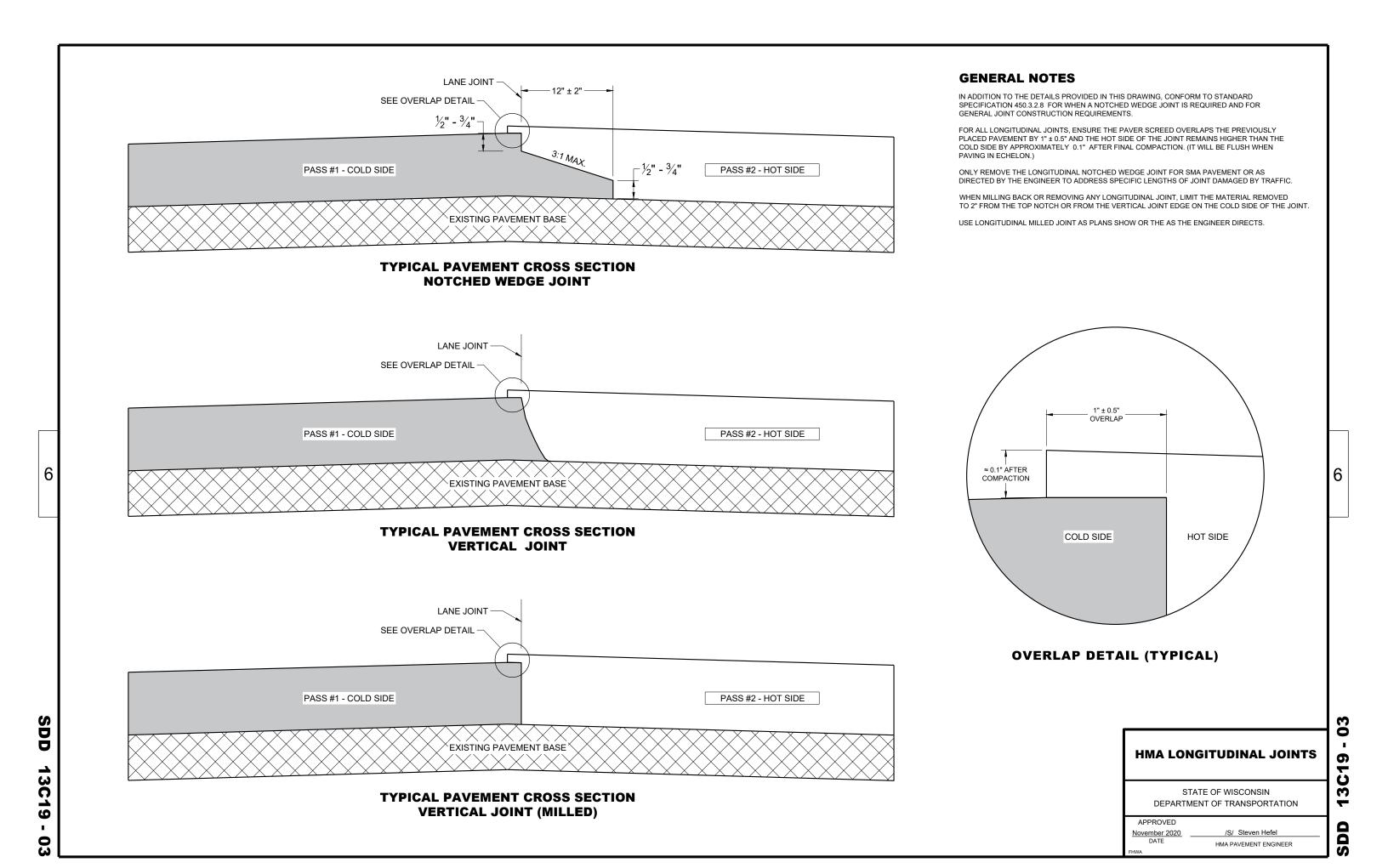
ALTERNATE LUG (FOR ATTACHMENT TO PRECAST STRUCTURES)

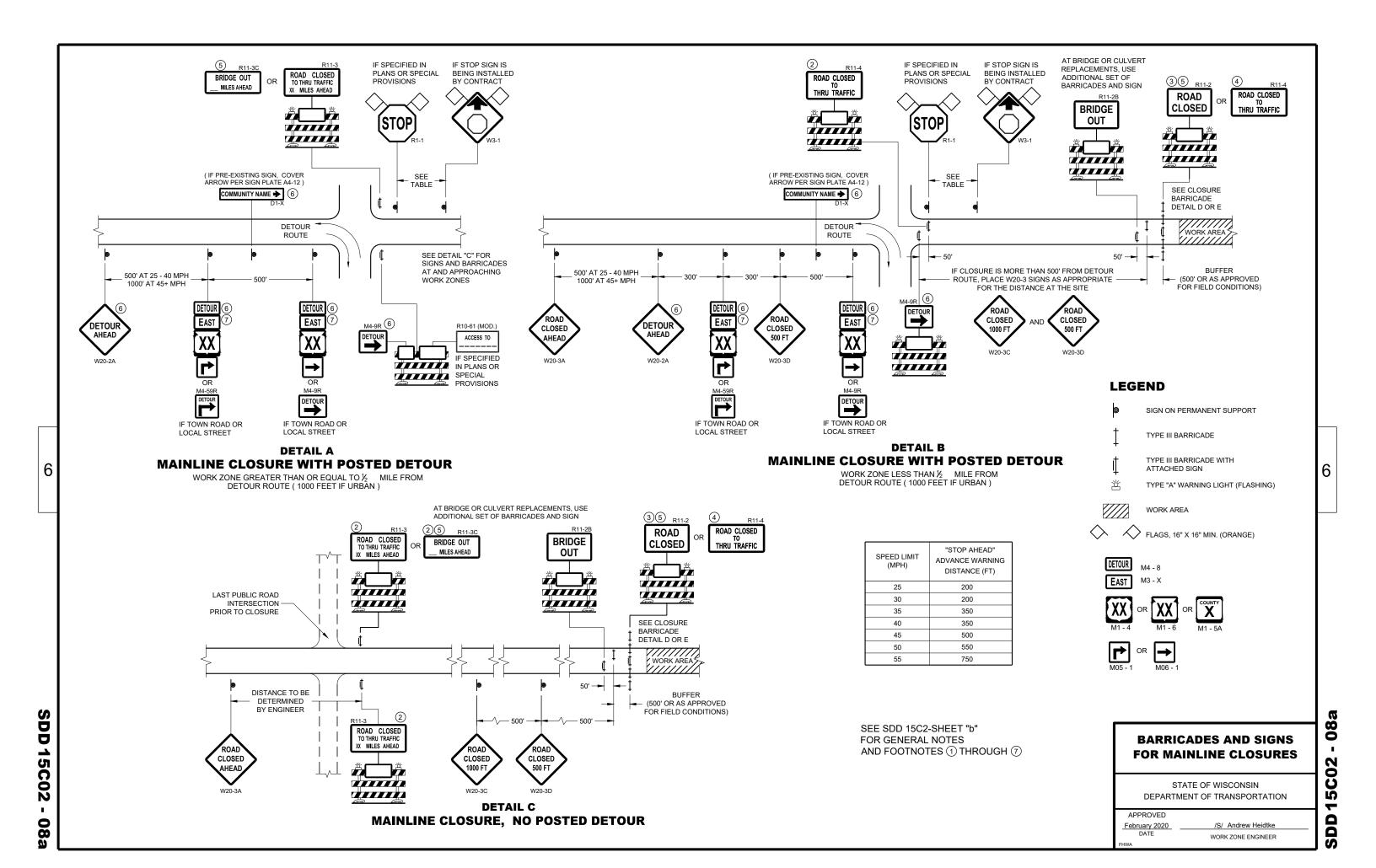
#### NAME PLATE (STRUCTURES)

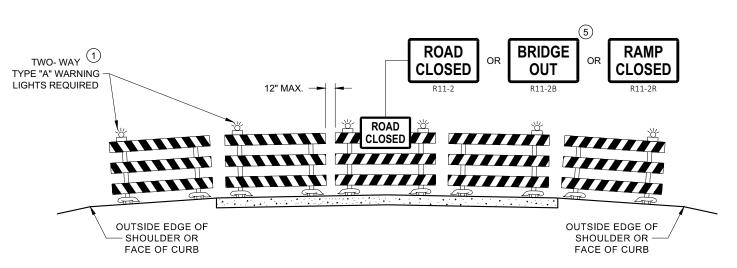
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 3-10

APPROVED

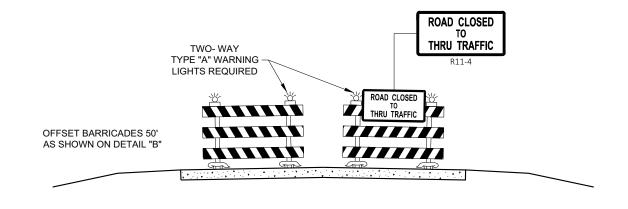
/S/ Scot Becker CHIEF STRUCTURAL DEVELOPMENT ENGINEER







# 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"

- 1 TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING.
- THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.
- (3) FOR ROAD CLOSURE <u>WITHOUT</u> 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

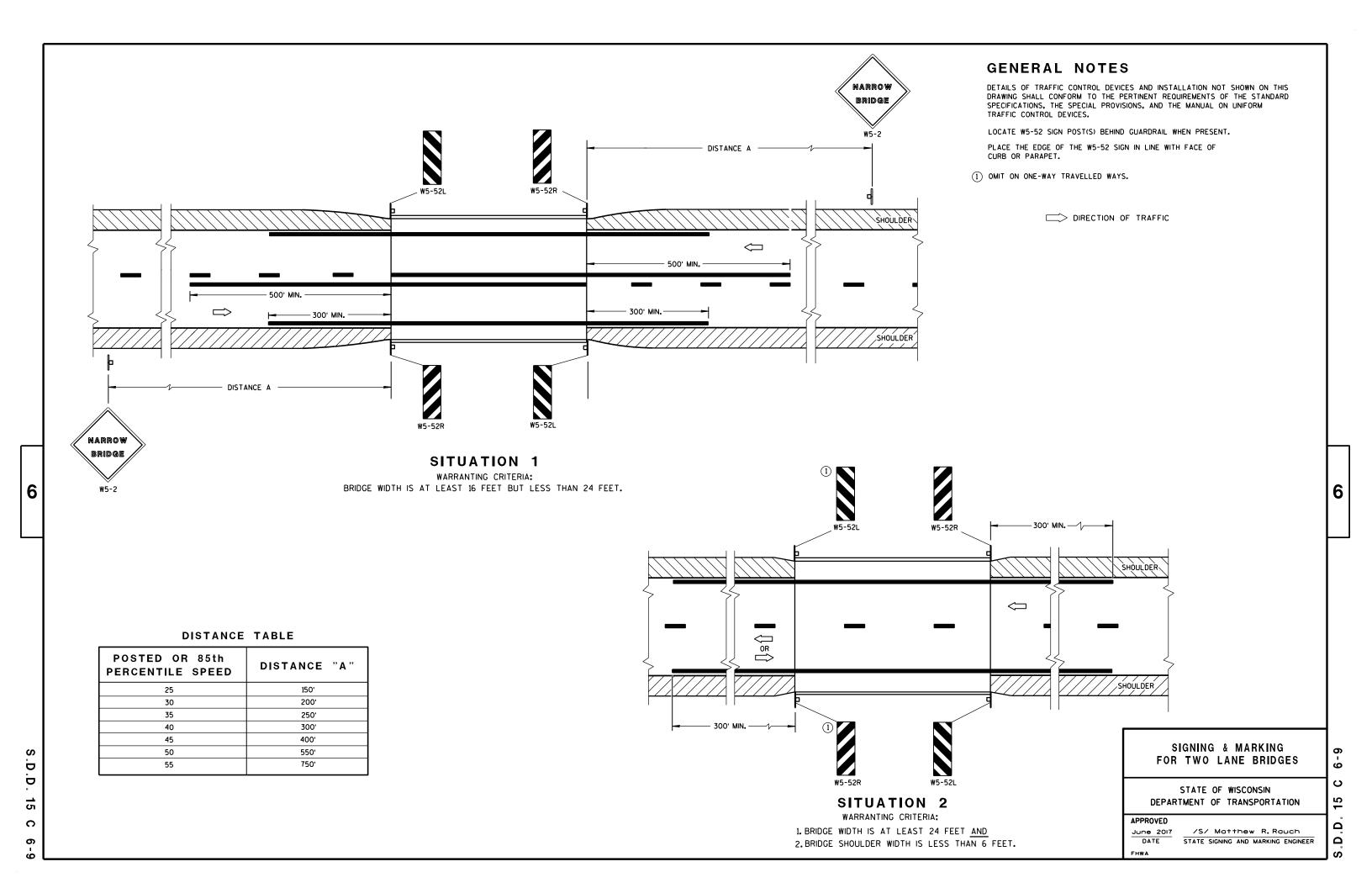
APPROVED

February 2020
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

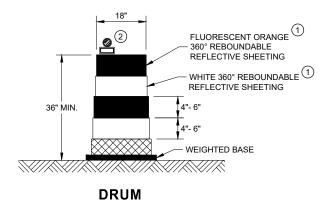
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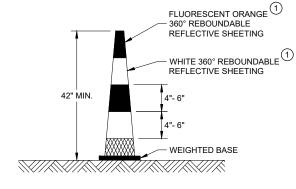
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#### **GENERAL NOTES**

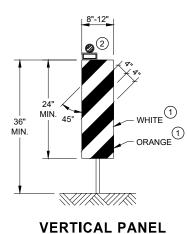
- (1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
- (2) LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.



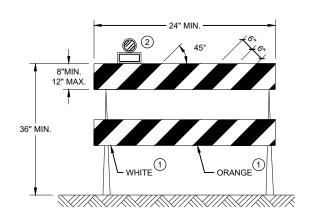


**42" CONE** DO NOT USE IN TAPERS

½ SPACING OF DRUMS

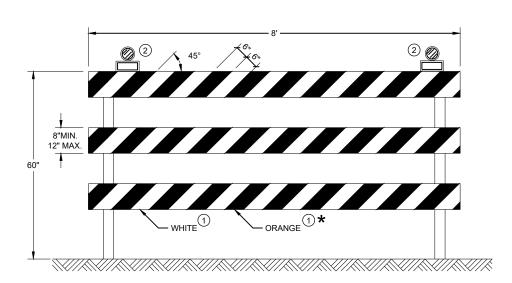


#### THE STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



#### **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**

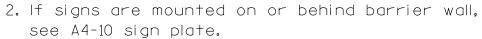
<u>60</u>

**15C** 

SDD

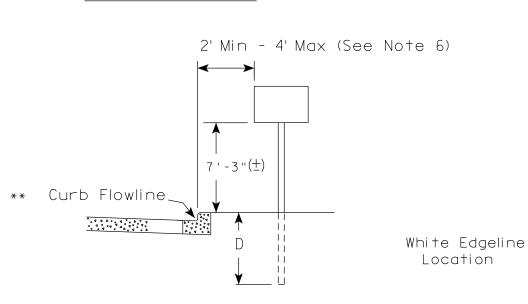
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

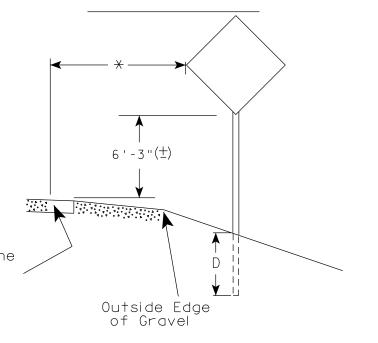
APPROVED	
May 2021	/S/ Andrew Heidtke
DATE	WORK ZONE ENGINEER



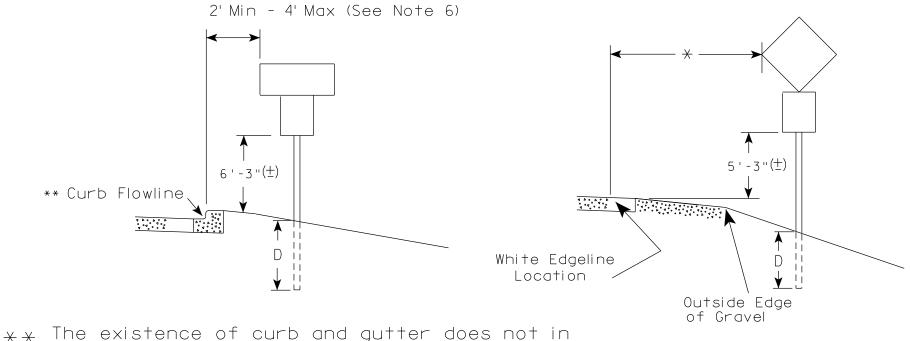
The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52). Mile Markers (D10 series). In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height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

- 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  $5' - 3'' \stackrel{(\pm)}{-}$ .
- 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.





2' Min - 4' Max (See Note 6) 6'-3"(±) \*\* Curb Flowline D



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.

POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED For State Traffic Engineer

DATE 5/13/2020 

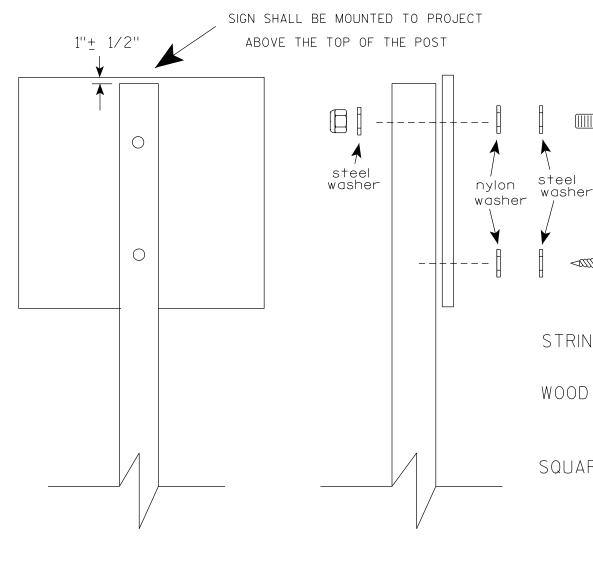
PROJECT NO: FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\A43.dgn

measured from the flow line.

COUNTY:

PLOT DATE: 13-MAY 2020 1:04 PLOT BY: mscj9h PLOT NAME :

Ε SHEET NO: PLOT SCALE: \$\$.....plo†scale.....\$\$ 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>

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

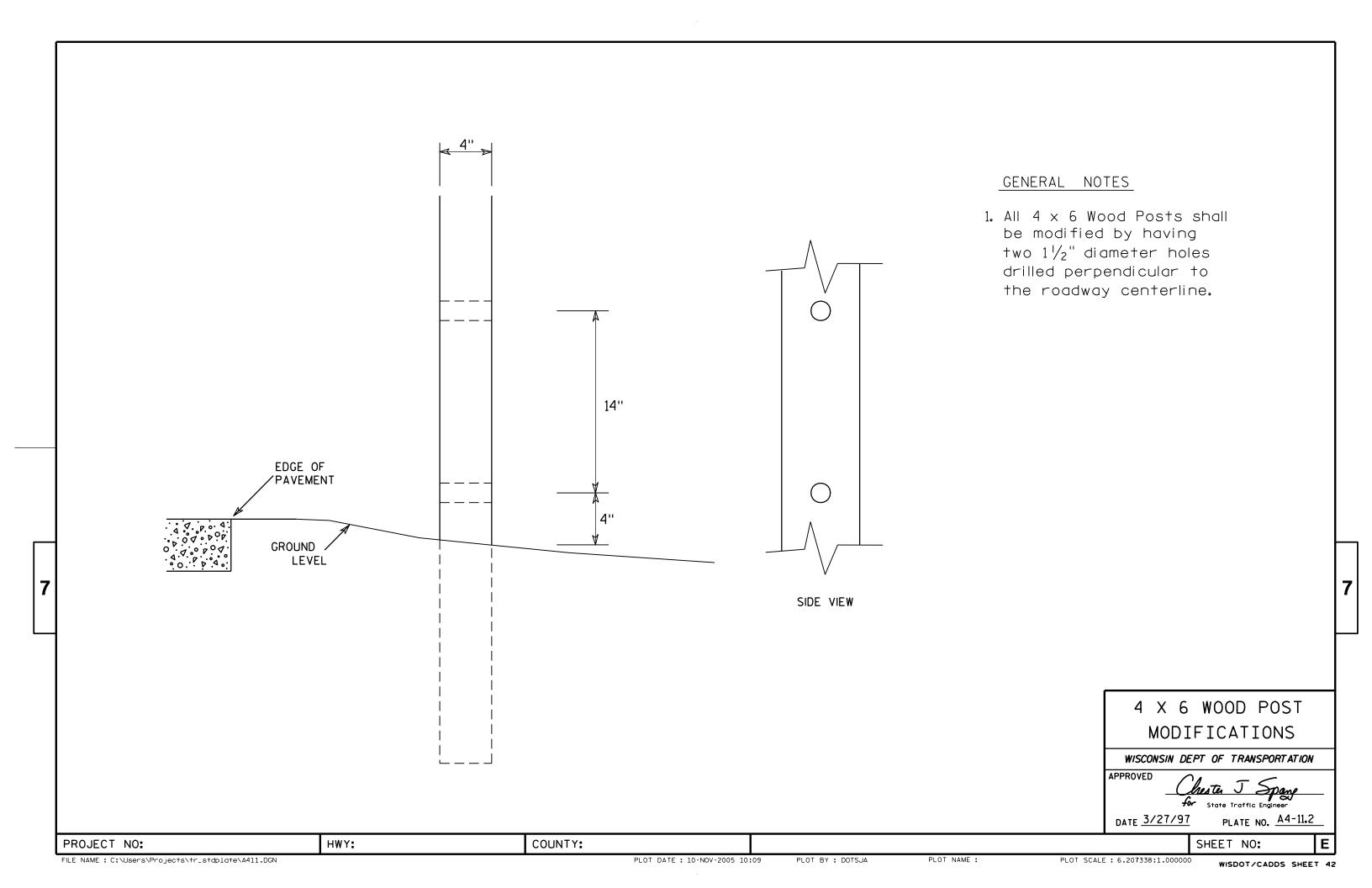
PROJECT NO:

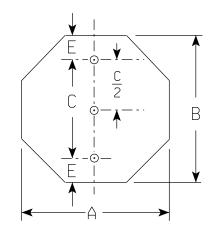
PLOT DATE: 01-APRIL-2020

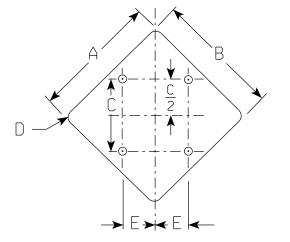
PLOT BY : dotc4c

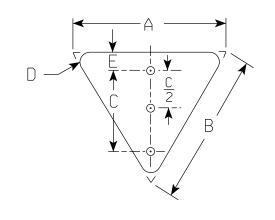
WISDOT/CADDS SHEET 42

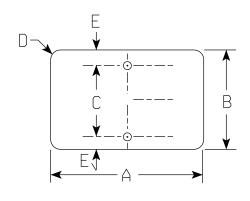
Ε











TYF	PΕ	1	
D	Е	Area Sq. Ft.	Mounting Holes
1 1/2	14	2.25	2

1 1 1 C 1								
Α	В	С	D	Е	Area Sq. Ft.	Mounting Holes		
18	18	18	1 1/2	14	2.25	2		
24	24	24	1 1/2	20	4.0	2		
30	30	30	1 1/8	22	6.25	2		
36	36	36	21/4	26	9.0	2		

_										
	TYPE 2									
	А	В	С	Е	Area Sq.Ft.	Mounting Holes				
	24	24	20	2	3.31	2				
	30	30	24	3	5.18	2				
	36	36	28	4	7.46	2				
	48	48	36	6	13.25	3				

TYPE 3							
Α	В	С	D	Е	Area Sq. Ft.	Mounting Holes	
48	48	26	3	13	16.0	4	

	TYPE 4								
Α	В	С	D	Е	Area Sq.Ft.	Mounting Holes			
18	18	14	1	2	1.95	2			
36	36	24	2	2	3.9	2			
48	48	32	3	3	7.0	2			

	TYPE 5							
А	В	С	D	E	Area Sq. Ft.	Mounting Holes		
8	8	6	1 1/2	1	0.44	2		
12	12	9	1 1/2	1 1/2	1.00	2		
18	18	14	1 1/2	2	2.25	2		
21	15	11	1 1/2	2	2.19	2		
21	21	17	1 1/2	2	3.06	2		
24	12	8	1 1/2	2	2.0	2		
24	18	14	1 1/2	2	3.0	2		
24	24	20	1 1/2	2	4.0	2		
30	12	8	1 1/2	2	2.5	2		
30	15	11	1 1/2	2	3.13	2		
30	18	14	1 1/2	2	3.75	2		
30	21	17	1 1/2	2	4.37	2		
30	24	20	1 1/2	2	5.0	2		

	TYPE 5 CONT'D.								
А	В	С	D	Е	Area Sq.Ft.	Mounting Holes			
30	30	22	1 1/8	4	6.25	2			
36	12	8	1 1/2	2	3.0	2			
36	18	14	1 1/2	2	4.5	2			
36	24	20	1 1/2	2	6.0	2			
36	36	26	2 1/4	5	9.0	2			
40	18	14	1 1/2	2	5.00	2			
42	21	17	1 1/8	2	6.125	2			
			7.						

### NOTES

1. All sign blanks shall have  $\frac{7}{16}$ " Diameter mounting hole.

#### ALUMINUM THICKNESS

SIGN WIDTH I	NOMINAL THICKNESS
30 inches and under	0.080 inch
Greater than 30-36 inches	0.100 inch
Over 36 inches	0.125 inch

#### STOP SIGN THICKNESS

SIGN WIDTH	NOMINAL THICKNESS
30 inches	0.100 inch
36-48 inches	0.125 inch

STANDARD LAYOUT OF ALUMINUM SIGN BLANKS

SHEET 1 OF 3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

 $extit{for}$  State Traffic Engineer

SHEET NO:

DATE 8/23/18

PLATE NO. <u>A5-3.24</u>

Ε

HWY:

COUNTY:

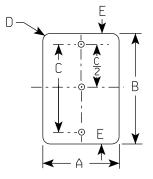
PLOT DATE: \$\$...plottingdate...\$\$ PLOT BY: \$\$...plotuser...\$\$ PLOT NAME:

PROJECT NO:

1. All sign blanks shall have  $\frac{1}{6}$ " Diameter mounting holes.

6

TYPE 6								
А	В	$\Box$	D	Ш	Area Sq. Ft	Mounting Holes		
30	30	24	13//8	3	4.68	2		
36	36	26	1 5/8	15	6.75	2		
48	48	32	1 1/8	8	12.0	3		



7

TYPE 7 *							
Α	В	С	D	- <i>'</i>	Area Sq. Ft.	Mounting Holes	
12	18	15	1 1/2	1 1/2	1.5	2	
12	24	20	1 1/2	2	2.0	2	
12	36	24	1 1/2	6	3.0	2	
12	48	32	1 1/2	8	4.0	3	
15	21	18	1 1/2	1 ½	2.19	2	
18	24	20	1 1/2	2	3.0	2	
18	36	24	1 1/2	6	4.5	2	
18	54	36	21/2	9	6.75	3	
21	60	40	1 1/2	10	8.75	3	
21	72	52	1 ½	10	10.5	3	
24	30	22	1 1/2	4	5.0	2	
24	36	24	1 1/2	6	6.0	2	
24	39	27	1 1/2	6	6.5	3	
24	45	33	1 1/8	6	7 <b>.</b> 5	3	
24	48	32	1 1/8	8	8.0	3	
24	57	37	1 %	10	9.5	3	
36	48	32	1 %	8	12.0	3	
3Ø	36	24	1 %	6	7.5	2	
36	54	36	2 1/4	9	12.75	3	
36	57	37	1 1/8	10	14.25	3	
48	39	27	1 1/8	10	13.0	3	
48	45	32	1 1/8	10	14.0	3	
48	57	37	3	10	19.0	3	

COUNTY:

8

TYPE 8									
А	В	C	Е	Area Sq.Ft.	Mounting Holes				
30		24	3	4.91	2				
36	_	26	5	7.07	2				
48		32	8	12.5	3				

\* FOR SIGNS OVER 57" IN HEIGHT, PROVIDE 3 MOUNTING HOLES AT 10" FROM THE TOP AND BOTTOM OF SIGN AND IN THE CENTER OF SIGN.

STANDARD LAYOUT OF
ALUMINUM SIGN BLANKS
SHEET 2 OF 3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther K Rauch
For State Traffic Engineer

DATE <u>8/23/18</u>

PLATE NO. <u>A5-3.24</u>

SHEET NO:

PROJECT NO:

HWY:

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

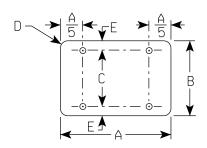
PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42

FILE NAME: \$\$....designfile....\$\$

10

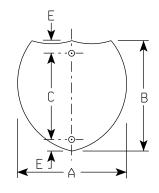
TYPE 10 (NOTE 1)						
А	В	С	D	Е	Area Sq.Ft.	Mounting Holes
48	36	14	21/4	16	6.0	2

			ΤY	PE	11	
Α	В	С	D	E	Area Sq.Ft.	Mounting Holes
66	12	8	3	2	5.5	4
66	18	14	3	2	8.25	4
66	24	20	3	2	11.0	4
66	3Ø	22	3	4	13.75	4
66	36	28	3	4	16.5	4
66	42	34	3	4	19.25	4
66	48	40	3	4	22.0	4
72	12	8	3	2	6.0	4
72	18	14	3	2	9.0	4
72	24	20	3	2	12.0	4
72	30	22	3	4	15.0	4
72	36	28	3	4	18.0	4
72	42	34	3	4	21.0	4
72	48	40	3	4	24.0	4



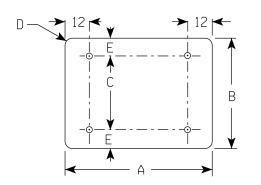
11

TY	PE	12	. (N	OTE	2)
А	В	С	Е	Area Sq.Ft.	Mounting Holes
24	24	18	3	3.13	2
30	24	18	თ	3.91	2
36	36	28	4	7.03	2
45	36	28	4	8.79	2



12

	TYPE 13							
А	В	С	D	Е	Area Sq.Ft.	Mounting Holes		
48	60	40	3	10	20.0	4		
54	12	8	1 1/2	2	4.5	4		
54	15	11	1 1/2	2	5.63	4		
54	18	14	1 1/2	2	6.75	4		
54	21	17	1 1/2	2	7.88	4		
54	24	20	1 1/8	2	9.0	4		
54	36	28	1 1/8	4	13.5	4		
54	48	40	1 1/8	4	18.0	4		
60	12	8	1 1/2	2	5.0	4		
60	18	14	1 1/2	2	7.5	4		
60	24	20	1 1/8	2	10.0	4		
60	3Ø	22	1 1/8	4	12.5	4		
60	36	28	1 1/8	4	15.0	4		
60	42	34	1 1/8	4	17.5	4		
60	48	40	3	4	20.0	4		



13

#### NOTES

- 1. Dimension A on type #10 is measured to the theoretical intersections of the edges.
- 2. Shape of type #12 shall conform to FHWA standard for Interstate route markers.
- 3. All signs over 60" in width shall have 3" radius on the outside corners of the aluminum blank.
- 4. For signs over 60" in width see sign plate A4-18 for hole placement.

STANDARD LAYOUT OF ALUMINUM SIGN BLANKS SHEET 3 OF 3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

 $f_{or}$  State Traffic Engineer

DATE <u>8/23/18</u>

PLATE NO. <u>A5.3.24</u>

Ε

COUNTY:

SHEET NO:

FILE NAME: \$\$....designfile....\$\$

PROJECT NO:

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

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

HWY:

### NOTES

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

Background - White Message - 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 & \downarrow \\ \hline F & \downarrow \\ \hline H & \downarrow \\ \hline G & \downarrow \end{array} $
A	1
R11-2B	

SIZE	Α	В	С	D	E	F	G	Н	I	C	K	L	M	N	0	Р	0	R	S	Т	U	٧	W	Х	Y	Z	Area sq. ft.
1																											
2S	48	30	1 3/8	1/2	5/8	8	5	4	19 ¾	9 3/4	9 %																10.0
2M	48	30	1 3/8	1/2	5/8	8	5	4	19 ¾	9 ¾	9 %																10.0
3	48	30	1 3/8	1/2	5/8	8	5	4	19 ¾	9 ¾	9 %																10.0
4	48	30	1 3/8	1/2	5/8	8	5	4	19 ¾	9 3/4	9 1/8																10.0
5	48	30	1 3/8	1/2	5/8	8	5	4	19 ¾	9 ¾	9 1/8																10.0

STANDARD SIGN R11-2B

WISCONSIN DEPT OF TRANSPORTATION

Matther 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.

R11-3B

\*\* See Note 5

D ➤

E→

SIZE	Α	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 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 1/2	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 R Lauch

For State Traffic Engineer

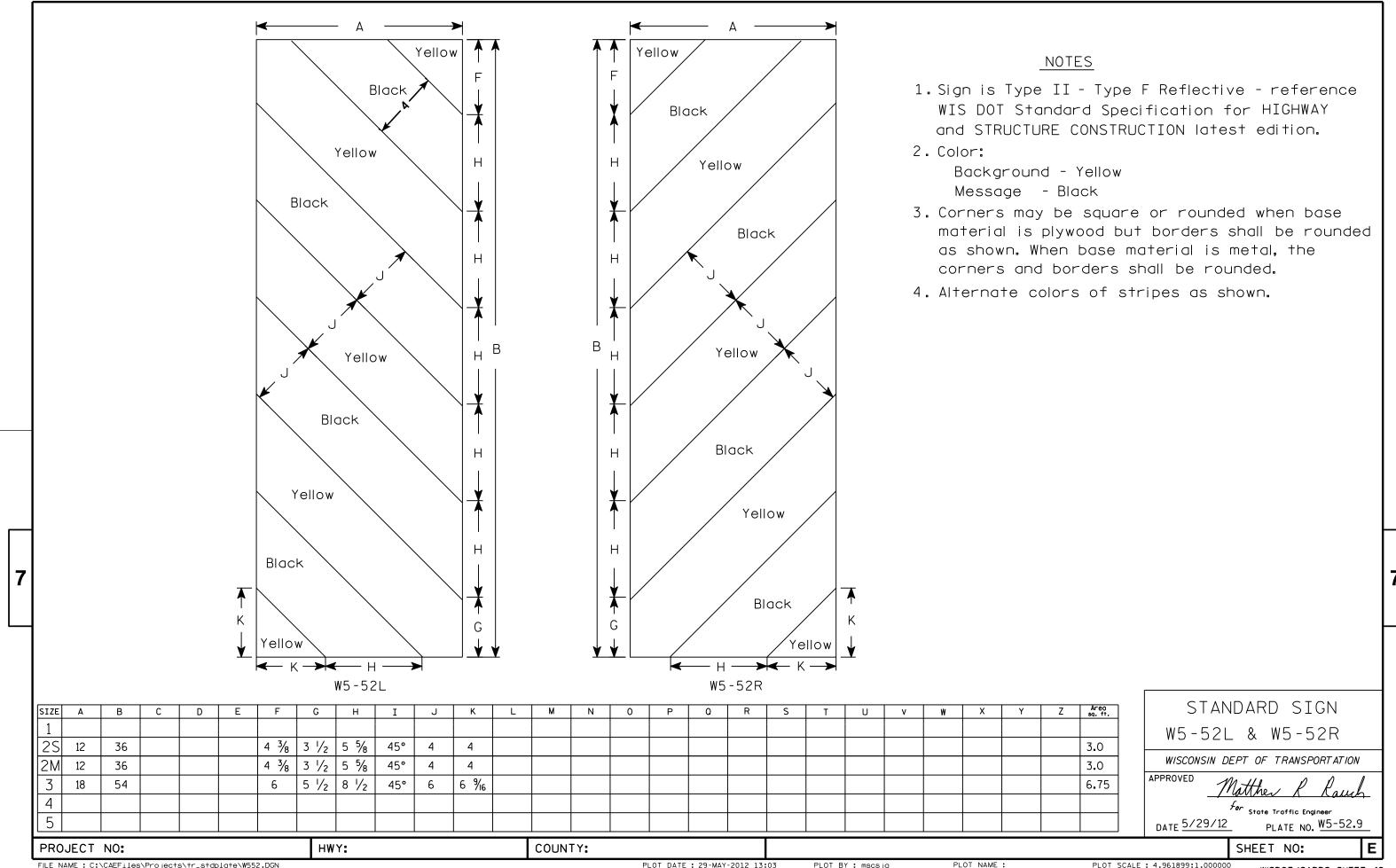
DATE 3/21/17 PLATE NO. R11-3B.3

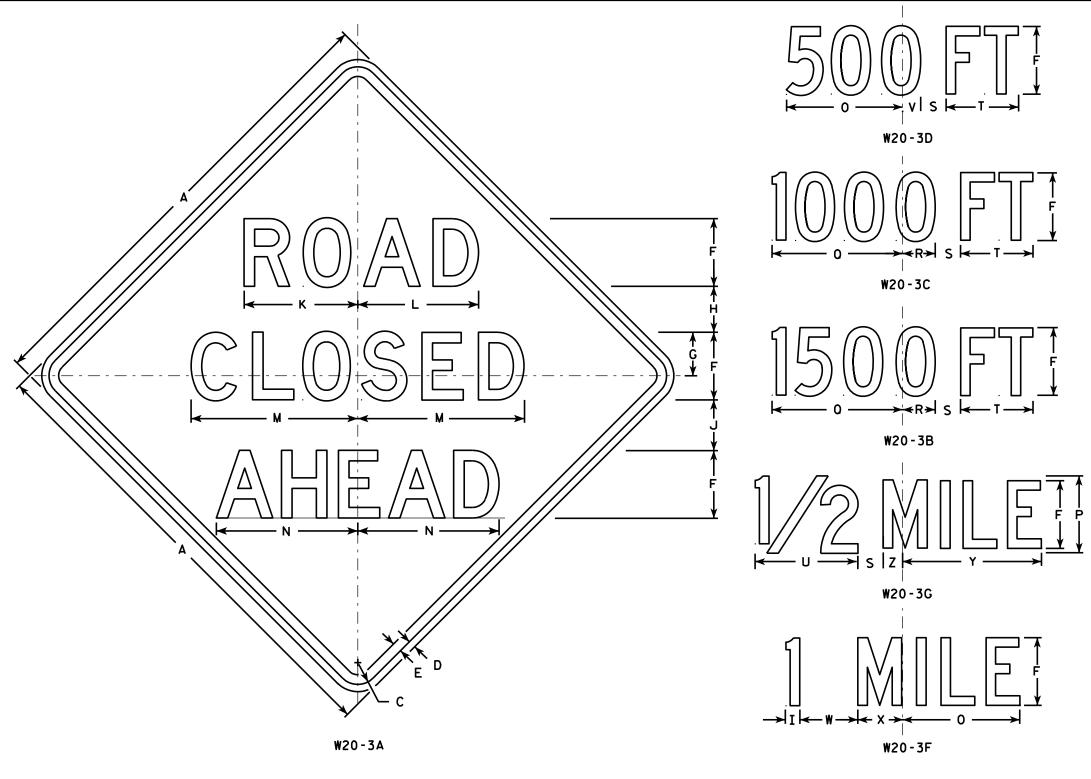
SHEET NO:

PLOT BY: \$\$...plotuser...\$\$ PLOT NAME: PLOT SCALE: 6

HWY:

PROJECT NO:





#### NOTES

- 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.

	В	С	D	E	F	G	Η	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	₩	X	Y	Z	Areo sq. ft.
6	1	5/8	5/8	3/4	5	3 %	3 ½	1 1/8	4	8	8 %	12 1/2	11	9	6	10 1/8	2 1/2	1 %	5 %	8	1 3/8	4 1/2	3 ½	10 ¾	1 3/4	9.0
8	2	2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 %	12	8	13 ½	3 %	2 5/8	7 1/2	10 %	1 1/8	6	4 5/8	14 3/8	2 3/8	16.0
8	2	2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 %	12	8	13 1/2	3 %	2 %	7 1/2	10 %	1 1/8	6	4 %	14 3/8	2 3/8	16.0
8	2	2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 %	12	8	13 1/2	3 %	2 %	7 1/2	10 %	1 1/8	6	4 %	14 3/8	2 3/8	16.0
8	2	2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 %	12	8	13 1/2	3 %	2 %	7 1/2	10 %	1 1/8	6	4 %	14 3/8	2 3/8	16.0
8	2	2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 %	12	8	13 1/2	3 %	2 5/8	7 1/2	10 %	1 1/8	6	4 %	14 3/8	2 3/8	16.0
8 8			2 1/4 2 1/4 2 1/4 2 1/4	2 1/4 3/4 2 1/4 3/4 2 1/4 3/4 2 1/4 3/4	2 1/4 3/4 1 2 1/4 3/4 1 2 1/4 3/4 1 2 1/4 3/4 1	2 1/4 3/4 1 7 2 1/4 3/4 1 7 2 1/4 3/4 1 7 2 1/4 3/4 1 7	2 1/4 3/4 1 7 4 1/2 2 1/4 3/4 1 7 4 1/2	2 1/4 3/4 1 7 4 1/2 4 3/4 2 1/4 3/4 1 7 4 1/2 4 3/4	2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2 2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2 2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2 2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2 2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2	2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2 5 1/4 2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2 5 1/4 2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2 5 1/4 2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2 5 1/4 2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2 5 1/4	2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4	2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2	2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4	2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8 2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8 2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8 2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8 2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8	2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8 12 2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8 12 2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8 12 2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8 12 2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8 12	2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8 12 8 2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8 12 8 2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8 12 8 2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8 12 8 2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8 12 8	2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8 12 8 13 1/2 2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8 12 8 13 1/2 2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8 12 8 13 1/2 2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8 12 8 13 1/2 2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8 12 8 13 1/2	2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8 12 8 13 1/2 3 3/8 2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8 12 8 13 1/2 3 3/8 2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8 12 8 13 1/2 3 3/8 2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8 12 8 13 1/2 3 3/8 2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8 12 8 13 1/2 3 3/8	2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8 12 8 13 1/2 3 3/8 2 5/8 2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8 12 8 13 1/2 3 3/8 2 5/8 2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8 12 8 13 1/2 3 3/8 2 5/8 2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8 12 8 13 1/2 3 3/8 2 5/8 2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8 12 8 13 1/2 3 3/8 2 5/8	2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8 12 8 13 1/2 3 3/8 2 5/8 7 1/2 2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8 12 8 13 1/2 3 3/8 2 5/8 7 1/2 2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8 12 8 13 1/2 3 3/8 2 5/8 7 1/2 2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8 12 8 13 1/2 3 3/8 2 5/8 7 1/2 2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8 12 8 13 1/2 3 3/8 2 5/8 7 1/2	2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8 12 8 13 1/2 3 3/8 2 5/8 7 1/2 10 5/8 2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8 12 8 13 1/2 3 3/8 2 5/8 7 1/2 10 5/8 2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8 12 8 13 1/2 3 3/8 2 5/8 7 1/2 10 5/8 2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8 12 8 13 1/2 3 3/8 2 5/8 7 1/2 10 5/8 2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8 12 8 13 1/2 3 3/8 2 5/8 7 1/2 10 5/8	2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8 12 8 13 1/2 3 3/8 2 5/8 7 1/2 10 5/8 1 3/8 2 1/8 2 1/8	2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8 12 8 13 1/2 3 3/8 2 5/8 7 1/2 10 5/8 1 3/8 6  2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8 12 8 13 1/2 3 3/8 2 5/8 7 1/2 10 5/8 1 3/8 6  2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8 12 8 13 1/2 3 3/8 2 5/8 7 1/2 10 5/8 1 3/8 6  2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8 12 8 13 1/2 3 3/8 2 5/8 7 1/2 10 5/8 1 3/8 6  2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8 12 8 13 1/2 3 3/8 2 5/8 7 1/2 10 5/8 1 3/8 6	2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8 12 8 13 1/2 3 3/8 2 5/8 7 1/2 10 5/8 1 3/8 6 4 5/8  2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8 12 8 13 1/2 3 3/8 2 5/8 7 1/2 10 5/8 1 3/8 6 4 5/8  2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8 12 8 13 1/2 3 3/8 2 5/8 7 1/2 10 5/8 1 3/8 6 4 5/8  2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8 12 8 13 1/2 3 3/8 2 5/8 7 1/2 10 5/8 1 3/8 6 4 5/8  2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8 12 8 13 1/2 3 3/8 2 5/8 7 1/2 10 5/8 1 3/8 6 4 5/8	2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8 12 8 13 1/2 3 3/8 2 5/8 7 1/2 10 5/8 1 3/8 6 4 5/8 14 3/8 2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8 12 8 13 1/2 3 3/8 2 5/8 7 1/2 10 5/8 1 3/8 6 4 5/8 14 3/8 2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8 12 8 13 1/2 3 3/8 2 5/8 7 1/2 10 5/8 1 3/8 6 4 5/8 14 3/8 2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8 12 8 13 1/2 3 3/8 2 5/8 7 1/2 10 5/8 1 3/8 6 4 5/8 14 3/8 2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8 12 8 13 1/2 3 3/8 2 5/8 7 1/2 10 5/8 1 3/8 6 4 5/8 14 3/8 2 1/4 3/4 1 1/4 3/8 12 1/4 3/8 12 1/4 3/8 12 1/4 3/8 12 1/4 3/8 12 1/4 3/8 14 3/8	2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8 12 8 13 1/2 3 3/8 2 5/8 7 1/2 10 5/8 1 3/8 6 4 5/8 14 3/8 2 3/8 2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8 12 8 13 1/2 3 3/8 2 5/8 7 1/2 10 5/8 1 3/8 6 4 5/8 14 3/8 2 3/8 2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8 12 8 13 1/2 3 3/8 2 5/8 7 1/2 10 5/8 1 3/8 6 4 5/8 14 3/8 2 3/8 2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8 12 8 13 1/2 3 3/8 2 5/8 7 1/2 10 5/8 1 3/8 6 4 5/8 14 3/8 2 3/8 2 1/4 3/4 1 7 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8 12 8 13 1/2 3 3/8 2 5/8 7 1/2 10 5/8 1 3/8 6 4 5/8 14 3/8 2 3/8 2 1/4 3/4 1 1/4 5/8 12 8 13 1/2 3 3/8 2 5/8 7 1/2 10 5/8 1 3/8 6 4 5/8 14 3/8 2 3/8 2 1/4 3/4 1 1/4 5/8 12 8 13 1/2 3 3/8 2 5/8 7 1/2 10 5/8 1 3/8 6 4 5/8 14 3/8 2 3/8 2 1/4 3/4 2 3/8

COUNTY:

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

WISCONSIN DEPT OF TRANSPORTATION

DATE 3/18/11 PLATE NO. W20-3.7

SHEET NO:

PROJECT NO:

HWY:

PLOT NAME :

**BENCHMARKS** 

STATION

STA. 10+87.24,

DESCRIPTION

RAILROAD SPIKE IN

OFFSET 23.92 LT | POLE #5-6-30 20/6

SEE ROADWAY PLANS FOR ADDITIONAL BENCHMARKS.

ELEV.

855.69

- PILING STEEL

HP 10-INCH x 42 LB

TOWN/CITY/VILLAGE

DANE

DESIGNED BY CK'D. BMO BY

**GENERAL** 

**PLAN** 

AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

PERRY

DTH CK'D. BMO

SHEET 1 OF 10

\_ 830

REMOVE EXISTING

STRUCTURE P-13-0224

**ELEVATION** 

(NORMAL TO SUBSTRUCTURES, LOOKING DOWNSTREAM)



# **GENERAL NOTES**

DRAWINGS SHALL NOT BE SCALED.

ALL STATIONS AND ELEVATIONS ARE IN FEET.

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

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

BAR DIMENSIONS FOR BENDING ARE OUT-TO-OUT OF BARS.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES BRIDGES B-13-691" SHALL BE THE EXISTING GROUND LINE.

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 SHEET 1 AND IN THE ABUTMENT DETAILS.

AT THE BACKFACE OF ABUTMENTS ALL VOLUME WHICH CANNOT BE PLACED BEFORE ABUTMENT CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH "BACKFILL STRUCTURE TYPE A".

THE BACKFILL QUANTITIES ARE BASED ON THE PAY LIMITS SHOWN ON THE PLANS AND MAY NOT REFLECT ACTUAL PLACED QUANTITIES, "BACKFILL STRUCTURE TYPE A" REQUIRED DIRECTLY BEHIND ABUTMENTS AND ABUTMENT WINGS FOR 3 FEET. BACKFILL PLACED BEYOND PAY LIMITS OR EXCEEDING PLAN QUANTITIES SHALL BE INCLUDED WITH EXCAVATION FOR STRUCTURES.

EXCAVATION BELOW THE ABUTMENT AND ABUTMENT BEDDING MATERIALS REQUIRES ENGINEER APPROVAL. "GEOTEXTILE TYPE DF SCHEDULE A" SHALL BE SET AT THE BOTTOM OF EXCAVATION AND EXTEND 2'-O" ABOVE BOTTOM OF ABUTMENT.

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

THE EXISTING STRUCTURE P-13-224, A SINGLE-SPAN CONCRETE GIRDER BRIDGE, IS TO BE REMOVED.

BEVEL EXPOSED EDGES OF CONCRETE 3/4" UNLESS OTHERWISE NOTED.

## **LEGEND**

- ♣ ¾" V-GROOVE REQ'D. EXTEND TO 6" FROM F.F. OF ABUTMENT DIAPHRAGMS.
- PROTECTIVE SURFACE TREATMENT SHALL BE APPLIED TO THE TOP OF
- ▲ BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCLUDED WITH 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 PIPE UNDERDRAIN. SEE DETAIL ON "SOUTH ABUTMENT" SHEET.
- ☐ PIGMENTED SURFACE SEALER SHALL BE APPLIED TO THE INSIDE AND TOP FACES OF THE PARAPETS.

# ABUTMENT BACKFILL DIAGRAM FOR WINGS PARALLEL TO ROADWAY

= OUT TO OUT OF ABUTMENT, INCLUDING WINGS (FT)

ROADWAY

**PAVEMENT** 

1.5

-BACKFILL STRUCTURE

"GEOTEXTILE TYPE DF SCHEDULE A"

LIMITS, EXTEND 2'-0" ABOVE BOTTOM

(TYP.)

-GEOTEXTILE

TYPE HR RIPRAP HEAVY

OF ABUTMENT FOR THE ENTIRE

TYPE A

ABUTMENT BODY LENGTH.

-PAY LIMITS

OF BACKFILL A

- = AVERAGE ABUTMENT FILL HEIGHT (FT) = EXPANSION FACTOR (1.20 FOR CY BID ITEMS AND 1.00 FOR TON BID ITEMS)
- $= (L)(3.0^{\circ})(H) + (L)(0.5)(1.5H)(H)$
- = V<sub>of</sub> (EF)/27 Vcv V TON  $= V_{cr} (2.0)$

1'-5¾"

□-

•-

BRIDGE

STRUCTURE

3'-0"

REQID

ABUTMENT

BACKFACE

TYPICAL SECTION THRU ABUTMENT

## CROSS SECTION THRU SUPERSTRUCTURE (LOOKING NORTH)

26'-11"

OUT-TO-OUT DECK

311/16

27'-33/4" OUT-TO-OUT PARAPETS 24'-5" CLEAR

VARIES

O" AT R STA. 11+16.07 TO

3"/6" AT & BRG. ABUTS.

POINT REFERRED TO ON

PROFILE GRADE LINE

TAN. LINE TAN. TO R DRAMMEN

VALLEY ROAD AT STA. 11+16.07

VARIES

O" AT & BRG.

ABUTS. TO 31/16 "

STRUCTURE R

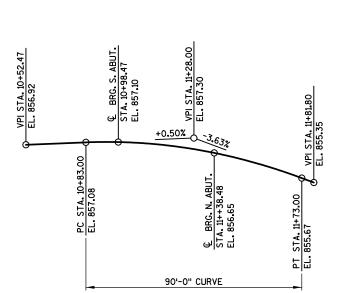
VALLEY ROAD

- CROWN POINT

12'-4"

12'-05/6"

\_\_2%

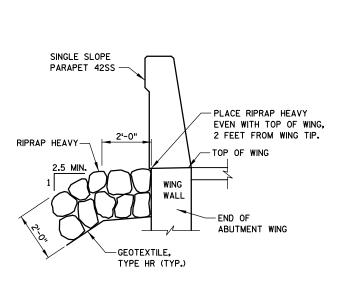


SINGLE SLOPE

PARAPET 42SS

(TYP.)

PROFILE GRADE LINE - DRAMMEN VALLEY RD.



12'-1"

2%

12'-4"/16 "

TYPICAL FILL SECTION AT WING TIPS

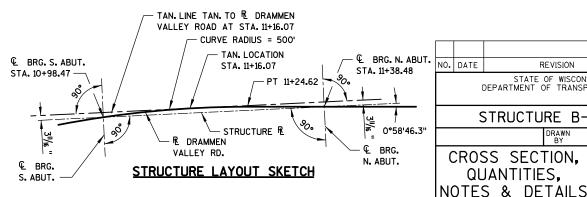
# TOTAL ESTIMATED QUANTITIES

1'-5%''

BID ITEM NUMBER	BID ITEMS	UNIT	SOUTH ABUT.	NORTH ABUT.	SUPERS.	TOTAL
203.0260	REMOVING STRUCTURE OVER WATERWAY MINIMAL DEBRIS P-13-224	EACH				1
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-13-691	LS				1
210.1500	BACKFILL STRUCTURE TYPE A	TON	108	108		216
502.0100	CONCRETE MASONRY BRIDGES	CY	30	30	94	154
502.3200	PROTECTIVE SURFACE TREATMENT	SY			116	116
502.3210	PIGMENTED SURFACE SEALER	SY	10	10	42	62
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	1,580	1,580		3,160
505,0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	1,960	1,960	18,150	22,070
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	9	9		18
550.0500	PILE POINTS	EACH	4	4		8
550.1100	PILING STEEL HP 10-INCH X 42 LB	LF	120	100		220
606.0300	RIPRAP HEAVY	CY	64	65		129
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	67	67		134
645.0111	GEOTEXTILE TYPE DF SCHEDULE A	SY	35	35		70
645.0120	GEOTEXTILE TYPE HR	SY	120	124		244
	NON-BID ITEMS					
	FILLER	SIZE				1/2" & 3/4"

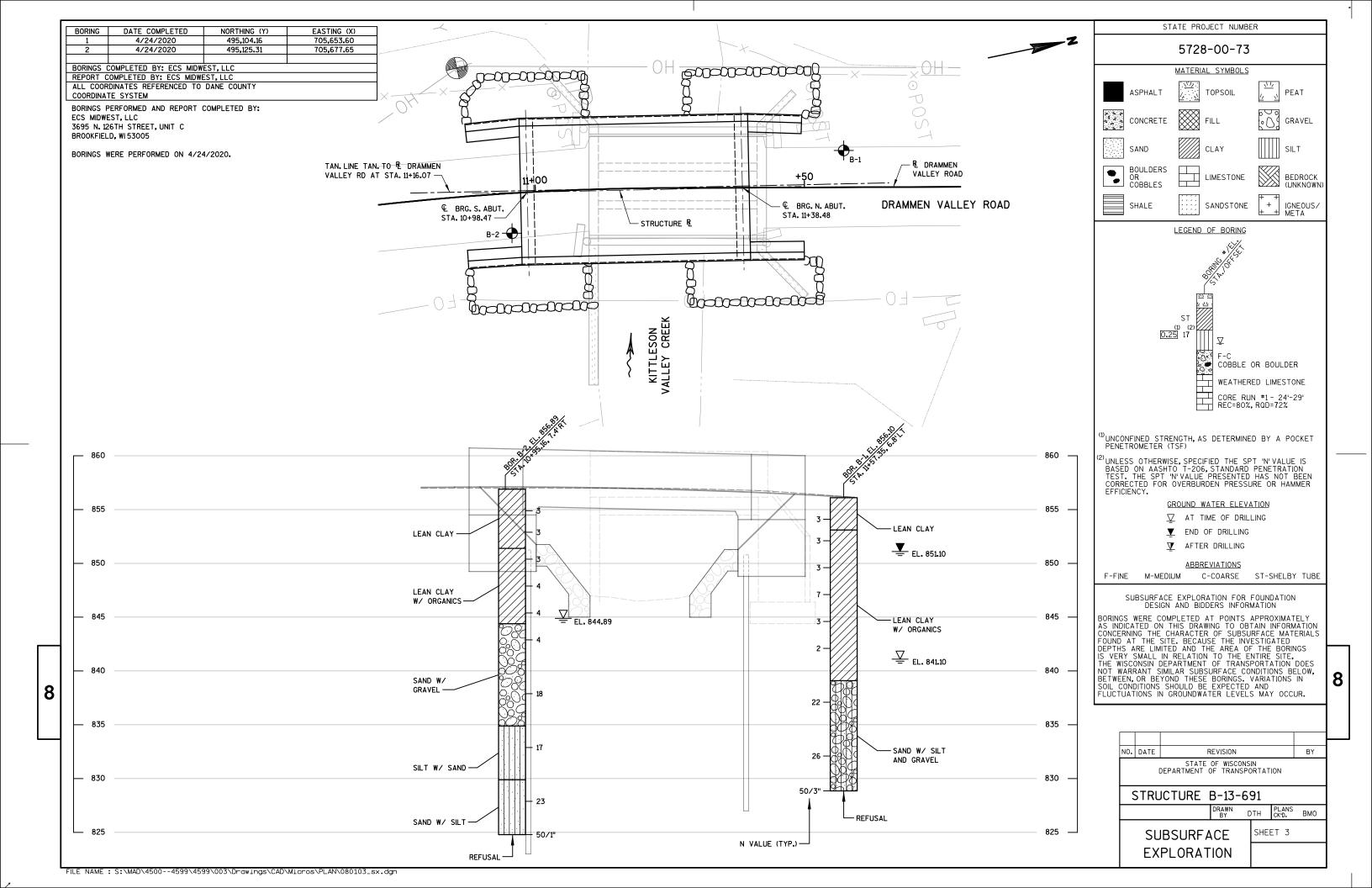
# RIPRAP HEAVY DETAIL

4'-0"



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т.	NO.		BY	ſ					
		ION							
	STRUCTURE B-13-691								
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# **NOTES**

SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF  $\frac{1}{2}$ " FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER 1" DEEP AND HOLD  $\frac{1}{8}$ " BELOW SURFACE OF CONCRETE. EXTEND SEALER 3" BELOW FINISHED ROADWAY SURFACE AT INSIDE FACE.

ADJUST A501 BARS INTERFERING WITH PILES.

SEE SHEET 6 FOR PILE SPLICE DETAILS.

SEE SHEET 5 FOR REINFORCING DETAILS.

SOUTH ABUTMENT TO BE SUPPORTED ON PILING STEEL 10-INCH X 42 LB WITH A REQUIRED DRIVING RESISTANCE OF 180 TONS PER PILE. ESTIMATED 30 FEET LONG EACH. PROVIDE PILE POINTS.

# **LEGEND**

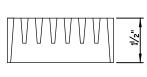
- ◆ ½" FILLER, EXTEND FROM ABUT. SEAT TO TOP OF CONCRETE PARAPET. FILLER INCLUDED IN WING LENGTH.
- 18" RUBBERIZED MEMBRANE WATERPROOFING. SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACKFACE.
- \* DIMENSION MEASURED PARALLEL TO ABUT. WING, ALONG FRONT FACE.
- \*\* ELEVATION GIVEN AT B.F. ABUTMENT.
- △ PIPE UNDERDRAIN WRAPPED (6-INCH), SLOPE 0.5% MIN. TO SUITABLE DRAINAGE, HIGH POINT EL. 851.00 AT €. ATTACH RODENT SHIELD AT ENDS OF PIPE, SEE DETAIL THIS SHEET.
- ◆ A506 BARS AT 1'-0" O.C. THESE BARS MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE.

6" NOMINAL

B

3/6"

MAX.



SECTION B-B

NOTES:

3'-3"

1'-3"

WORKING

POINT

1'-0"

1'-51/2"

\*\*EL. 856.86

EL. 854.25

EL. 849.25

WORKING

POINT

WING 2

**II** -

- & OF BRG.

- A604 (F.F., TOP, BTM.) A805 (B.F.)

12 SPA. @ 9" = 9'-0"

WING 2

7'-4"

2'-6"

13'-7"

81/2"

TAN.LINE TAN.TO R DRAMMEN VALLEY ROAD AT STA.11+16.07

€ BRG. S. ABUT.

STA. 10+98.47

TAN.LINE TAN.TO R DRAMMEN VALLEY ROAD

AT STA. 11+16.07

DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING, ORIENT SHIELD SO SLOTS ARE VERTICAL.

THE RODENT SHIELD, PIPE COUPLING AND ATTACHMENT SCREWS SHALL BE INCLUDED WITH 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  $\times$  1-INCH STAINLESS STEEL SHEET METAL SCREWS.

RODENT SHIELD DETAIL

			·						
NO.	IO. DATE REVISION								
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION									
	STRUCTURE B-13-691								
		TH	PLANS CKD.	вмо					
		SOUTH		SHE	ET 4				
	ABUTMENT								

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2'-6"

3'-3"

WING 1

STRUCTURE R

R DRAMMEN

VALLEY RD-

€ BRG. S. ABUT.

¾"×4" PREFORMED
JOINT FILLER.

LENGTH OF ABUT.

STRUCTURE R

STRUCTURE RL

R DRAMMEN VALLEY ROAD

HP 10-INCH X 42 LB. (TYP.)

3'-6"

3'-9"

7'-3"

PILE PLAN

PILING STEEL

- A402 (TYP.)

EL. 854.52

26'-11"

**PLAN** 

7 SPA. @ 1'-0" = 7'-0"

A501 26'-11" **ELEVATION** 

STA. 10+98.47 -

• • • • • • • • •

1'-3"

WORKING POINT

\*\*EL. 856,86

EL. 854.25

EL. 849.25

WORKING POINT

1'-0"

1'-51/2"

— A501 (TYP.)

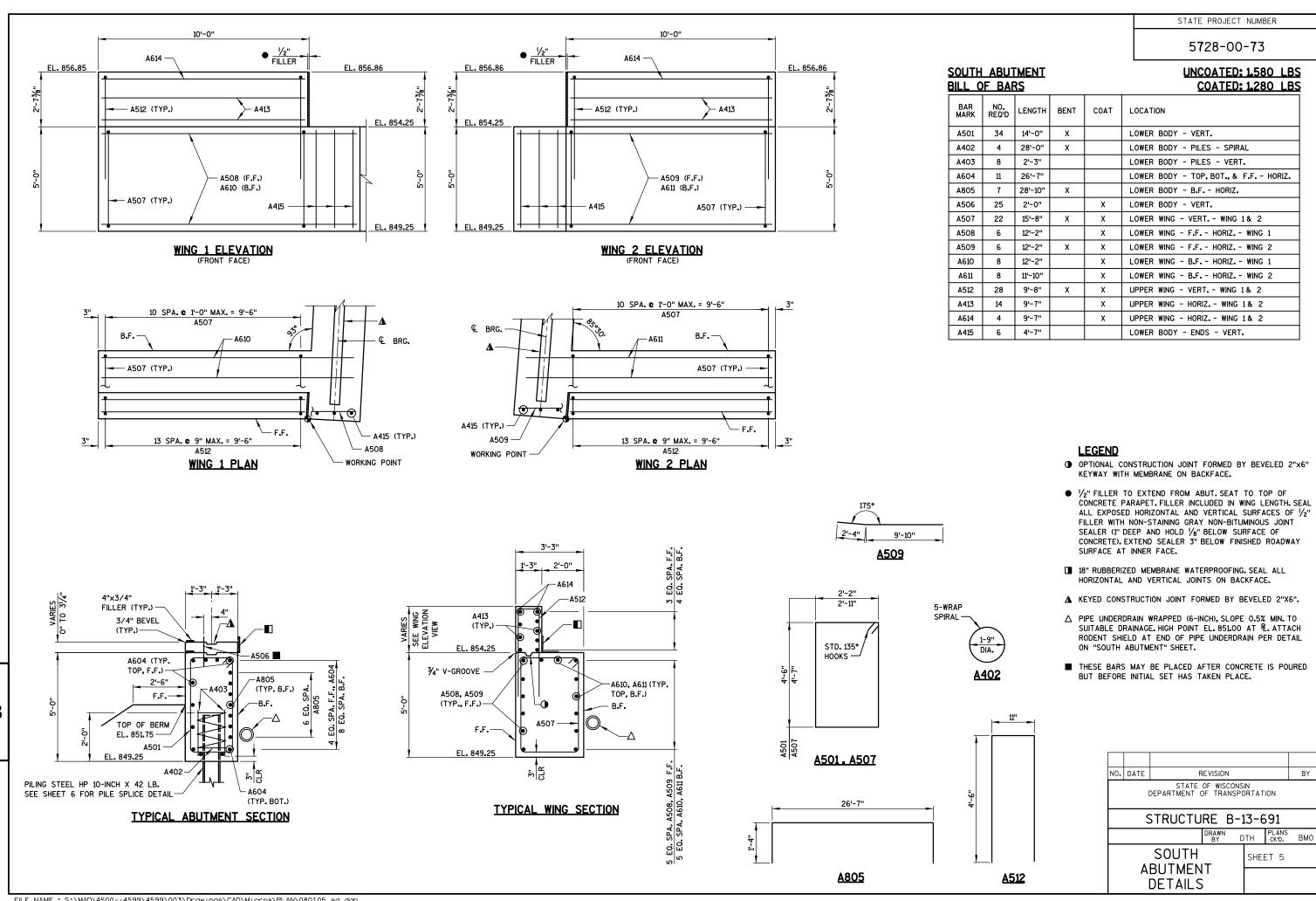
12 SPA. @ 9" =9'-0"

A501

WING 1

— A403 (TYP.)

7'-4"



8



5728-00-73

# **NOTES**

SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF  $\frac{1}{2}$ " FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER 1" DEEP AND HOLD  $\frac{1}{6}$ " BELOW SURFACE OF CONCRETE. EXTEND SEALER 3" BELOW FINISHED ROADWAY SURFACE AT INSIDE FACE.

ADJUST B501 BARS INTERFERING WITH PILES.

SEE THIS SHEET FOR PILE SPLICE DETAILS.

SEE SHEET 7 FOR REINFORCING DETAILS.

NORTH ABUTMENT TO BE SUPPORTED ON PILING STEEL 10-INCH X 42 LB WITH A REQUIRED DRIVING RESISTANCE OF 180 TONS PER PILE. ESTIMATED 25 FEET LONG EACH. PROVIDE PILE POINTS.

# **LEGEND**

- 1/2" FILLER, EXTEND FROM ABUT. SEAT TO TOP OF CONCRETE PARAPET. FILLER INCLUDED IN WING LENGTH.
- 18" RUBBERIZED MEMBRANE WATERPROOFING. SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACKFACE.
- \* DIMENSION MEASURED PARALLEL TO ABUT. WING, ALONG FRONT FACE.
- \*\* ELEVATION GIVEN AT B.F. ABUTMENT.
- △ PIPE UNDERDRAIN WRAPPED (6-INCH), SLOPE 0.5% MIN. TO SUITABLE DRAINAGE, HIGH POINT EL. 851.00 AT €. ATTACH RODENT SHIELD AT ENDS OF PIPE, SEE DETAIL THIS SHEET.
- ◆ B506 BARS AT 1'-0" O.C. THESE BARS MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE.

# PILE SPLICE NOTES

3'-3"

WING 4

€ OF BRG.

B604 (F.F., TOP, BTM.)

B805 (B.F.)

13'-4"

-R DRAMMEN VALLEY RD 1'-3"

- WORKING

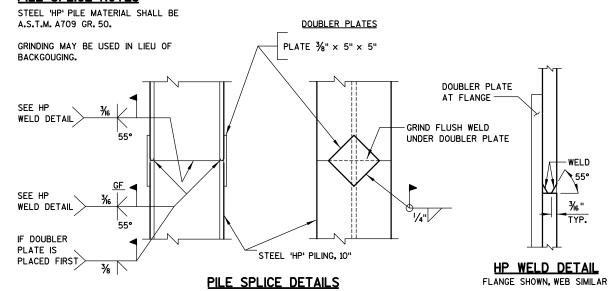
POINT

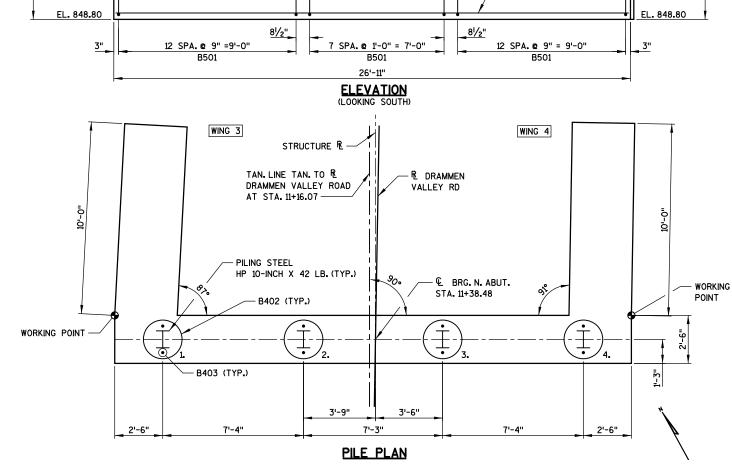
1'-0"

1'-51/2"

\*\*EL. 856.38

EL. 853.80





**ABUTMENT** 

8

3'-3"

WING 3

STRUCTURE &

TAN. LINE TAN. TO R

AT STA. 11+16.07

DRAMMEN VALLEY ROAD

€ BRG. N. ABUT.

¾"×4" PREFORMED
JOINT FILLER.

LENGTH OF ABUT.

STRUCTURE & -

EL. 854.07

26'-11"

**PLAN** 

STA. 11+38.48 -

1'-3"

WORKING POINT

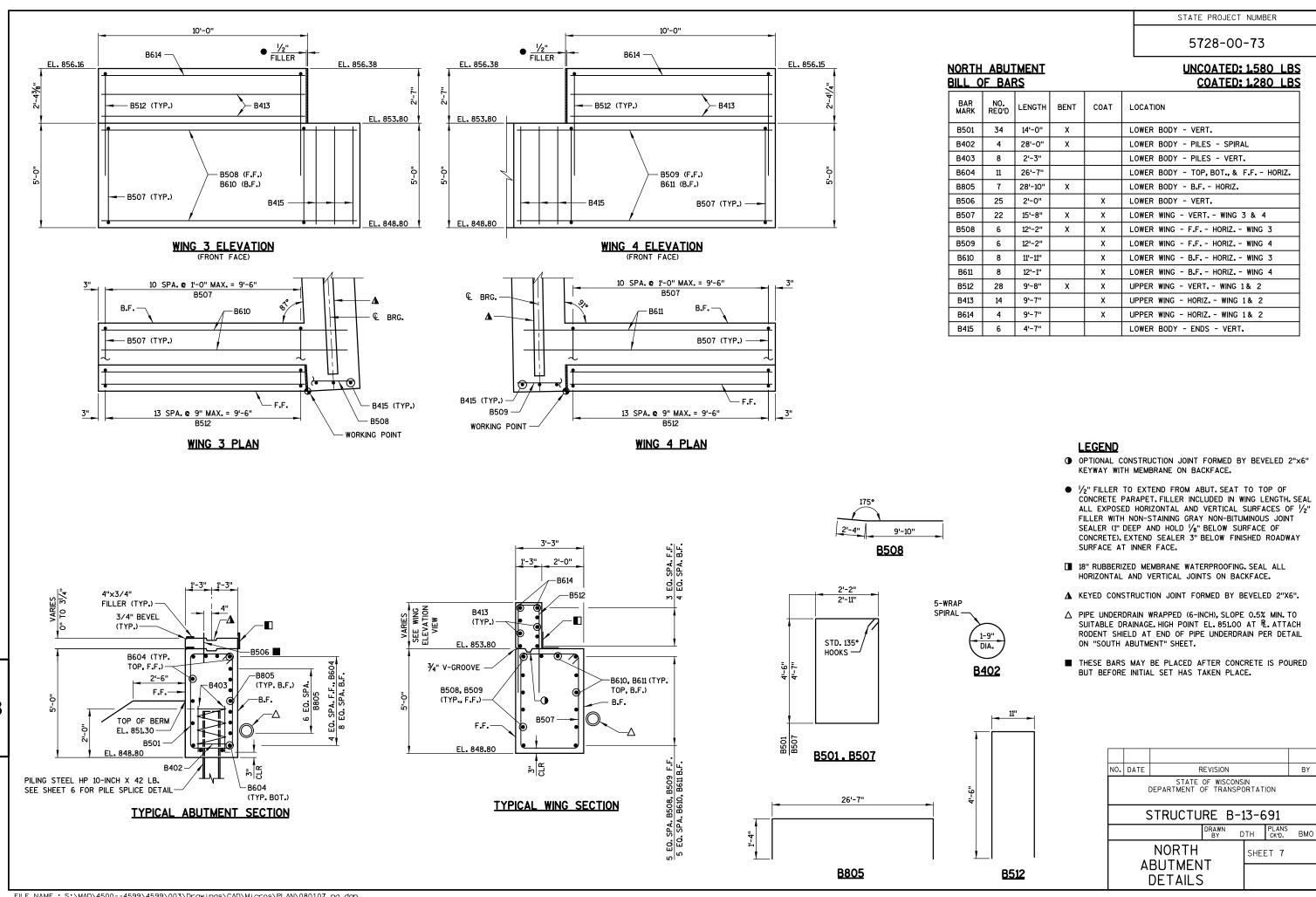
1'-0"

1'-51/2"

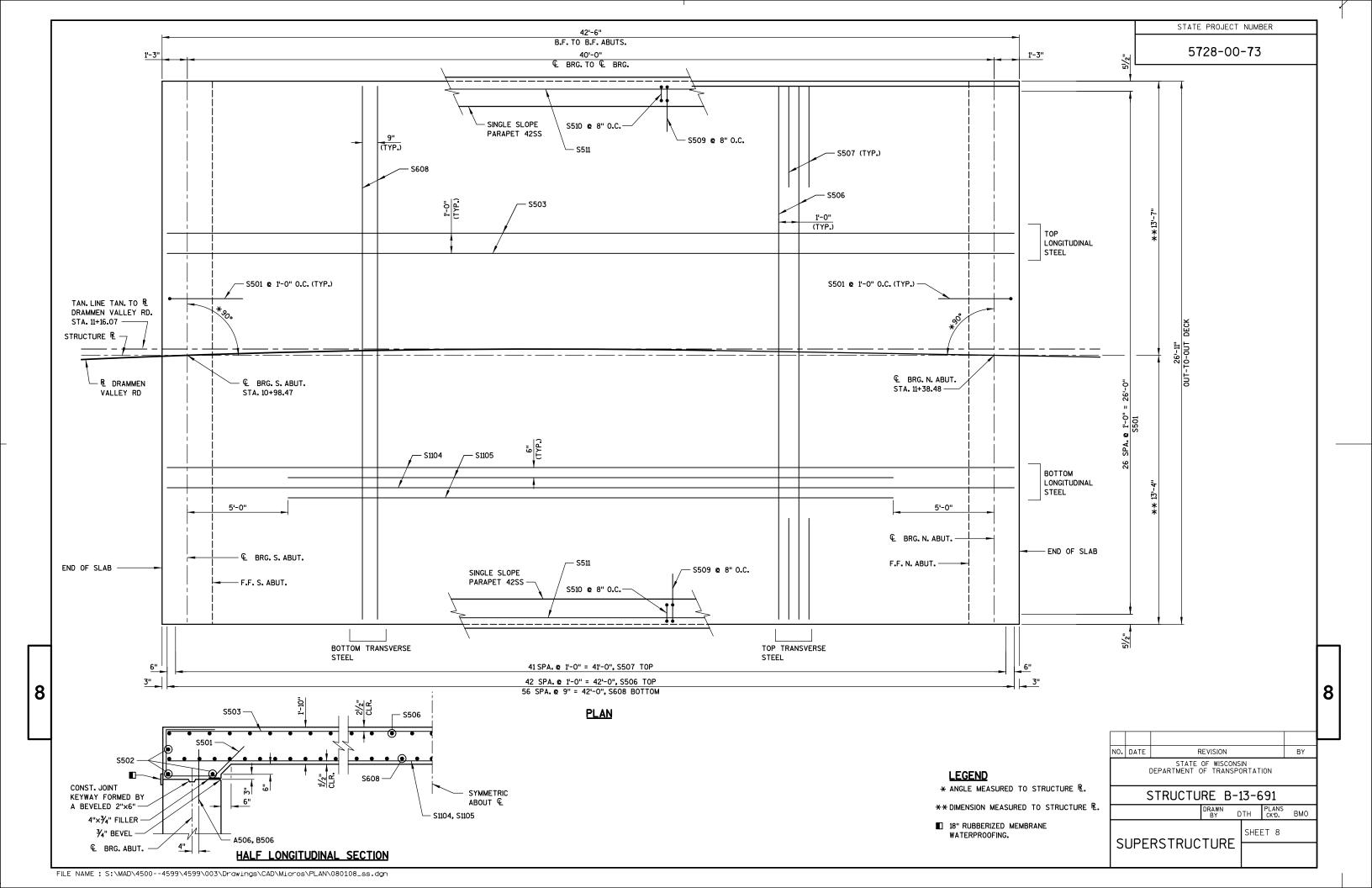
\*\*EL. 856.38

EL. 853.80

— B501 (TYP.)



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5728-00-73

# **NOTES**

TOP TRANSVERSE BARS IN SLAB SHALL BE SUPPORTED BY INDIVIDUAL BAR CHAIRS AT APPROXIAMTELY 3'-O" CENTERS EACH WAY. BOTTOM LONGITUDINAL BARS SHALL BE SUPPORTED BY CONTINUOUS BAR CHAIRS AT APPROXIMATELY 4'-O" CENTERS.

ALL SLAB THICKNESS DIMENSIONS ARE MINIMUM. ANY TOLERANCES NECESSARY TO CORRECT CONSTRUCTION DISCREPANCIES ARE TO BE PLUS (+).

# SURVEY TOP OF SLAB ELEVATIONS

	S. ABUT.	5/10 PT.	N. ABUT.
WEST GUTTER			
CROWN ON STRUCTURE R			
EAST GUTTER			

PRIOR TO RELEASING SLAB FALSEWORK, TAKE TOP OF DECK ELEVATIONS AT THE © OF ABUTMENTS AND AT 5/10 PT. TO VERIFY CAMBER. TAKE ELEVATIONS ALONG GUTTER LINES AND CROWN OR R. RECORD THE ELEVATIONS IN THE ABOVE TABLE FOR THE "AS BUILT" PLANS.

# TOP OF DECK ELEVATIONS

O DEGIN E	<u></u>	<u> </u>				
	WEST EDGE OF DECK		STRUCT	URE R/L	EAST EDGE OF DECK	
LOCATION	* 13.58	B'LT		_	* 13.33' RT	
	STATION	ELEV.	STATION	ELEV.	STATION	ELEV.
C/L S. ABUT.	10+98.89	856.85	10+98.47	857.10	10+98.03	856.86
0.1L POINT	11+02.83	856.84	11+02.47	857.09	11+02.10	856.85
0.2L POINT	11+06.77	856.82	11+06.47	857.07	11+06.16	856.83
0.3L POINT	11+10.71	856.80	11+10.47	857.04	11+10.23	856.80
0.4L POINT	11+14.64	856.76	11+14.47	857.01	11+14.29	856.77
0.5L POINT	11+18.58	856.72	11+18.48	856.97	11+18.36	856.73
0.6L POINT	11+22.52	856.67	11+22.48	856.92	11+22.42	856.68
0.7L POINT	11+26.46	856.62	11+26.48	856.86	11+26.49	856.62
0.8L POINT	11+30.39	856.55	11+30.48	856.80	11+30.55	856.56
0.9L POINT	11+34.33	856.49	11+34.48	856.73	11+34.62	856.49
C/L N. ABUT.	11+38.27	856.41	11+38.48	856.65	11+38.68	856.41

ELEVATIONS SHOWN ARE FINISHED GRADE ELEVATIONS.

\* DECK ELEVATIONS AT FACE OF PARAPET (12.33'LT & 12.08'RT) ARE THE SAME AS AT THE EDGE OF DECK (DECK LEVEL UNDER PARAPET, SEE "SINGLE SLOPE PARAPET 42SS" SHEET FOR DETAIL).

### 1'-5%" 24'-5" 1'-53/8" CLEAR 12'-4" 12'-1" 81/2"\_ 25 SPA. @ 1'-0" = 25'-0" 81/2" S503, TOP \_3" VARIES VARIES O" AT & BRG. TO O" AT R STA. 11+16.07 TO ABUTS. TO 31/16 " 31/16 " AT & BRG. ABUTS. TAN. LINE TAN. TO R DRAMMEN - STRUCTURE R VALLEY ROAD AT STA. 11+16.07 - S510 (TYP.) ─ R DRAMMEN VALLEY ROAD CROWN POINT S507 (BTWN. S506 POINT REFERRED TO ON S506 · - S511 (TYP.) TRANS. BARS) (TYP.) PROFILE GRADE LINE-S503 - S509 (TYP.) (TYP.) - S1104 (TYP) S608 - S1104 (TYP) S1105 (TYP) 3/4" V-GROOVE. EXTEND TO - S1104 (TYP) 6" FROM FRONT FACE OF (TYP.) ABUTMENT. \_3" 51 SPA. @ 6" = 25'-6" 51/2" S1104, S1105 BOT. ALTERNATING 26'-11" OUT-TO-OUT DECK

# CROSS SECTION THRU SUPERSTRUCTURE

(LOOKING NORTH)

# 40'-0" SPAN 41/2" R-0.91 IN. 0.91 IN. --- CAMBER 2'-0" 6/10 PT. **S501 S509** S510

# CAMBER AND SLAB THICKNESS DIAGRAM

CAMBER SHOWN IS BASED ON 3 TIMES DEAD LOAD DEFLECTIONS. CAMBER SPANS AS SHOWN TO PROVIDE FOR DEAD LOAD DEFLECTION AND FUTURE CREEP. CAMBER DOES NOT INCLUDE ALLOWANCE FOR FORM SETTLEMENT.

PARAPETS PLACED ON TOP OF THE SLAB SHALL BE POURED AFTER FALSEWORK HAS BEEN RELEASED.

TO DETERMINE FALSEWORK ELEVATION AT EDGE OF SLAB. CROWN OR REFERENCE LINE FOLLOW THIS PROCEDURE;

TOP OF SLAB ELEVATION AT FINAL GRADE SLAB THICKNESS

LESS

CAMBER PLUS

FORM SETTLEMENT/DEFLECTION DUE TO PLACEMENT OF SLAB CONCRETE (TO BE COMPUTED BY THE CONTRACTOR) PLUS

THICKNESS

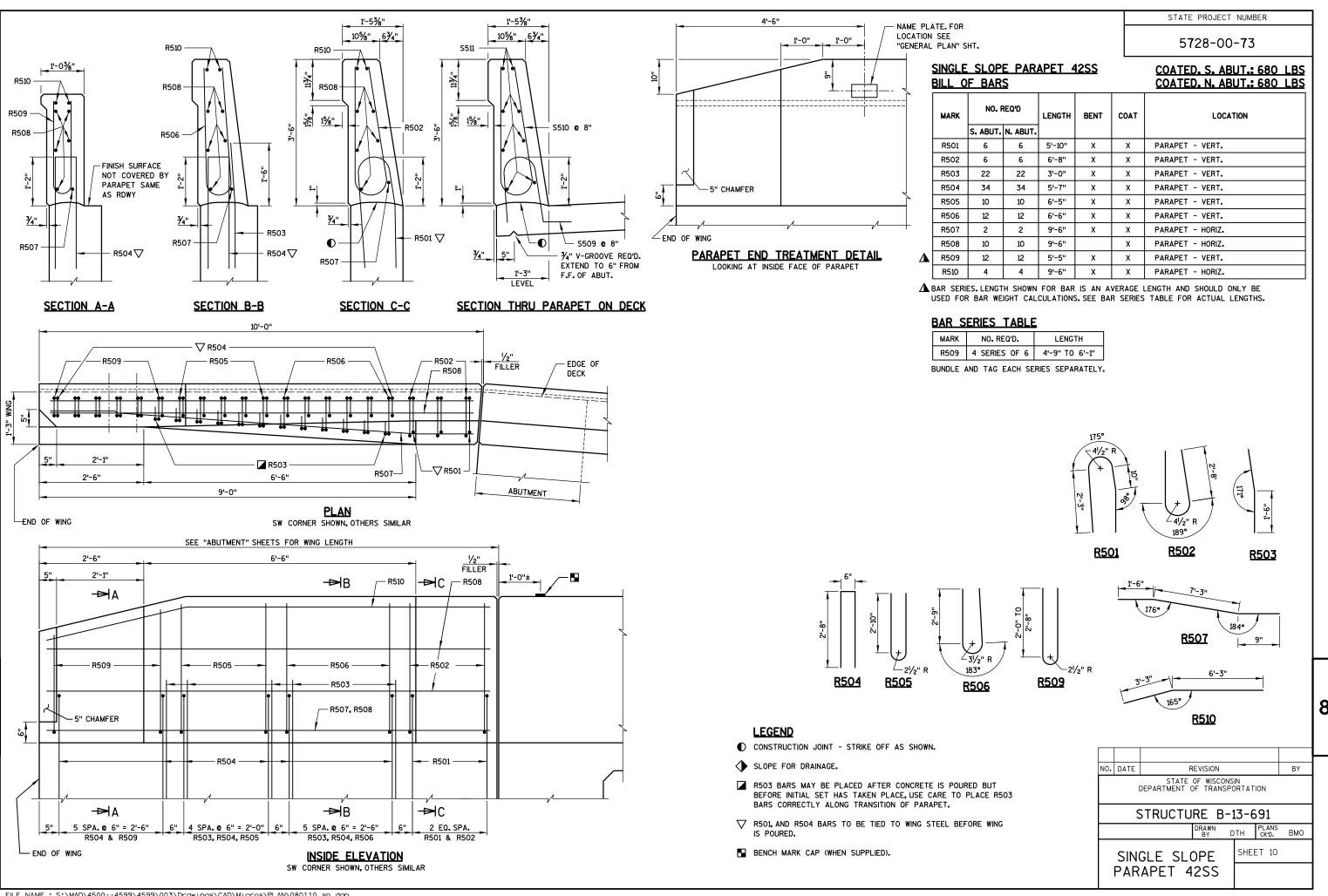
**EQUALS** TOP OF SLAB FALSEWORK ELEVATION.

# **SUPERSTRUCTURE**

BILL C	F BAF	<u> </u>			<u>COATED: 18.150</u>
BAR MARK	NO. REQ'D	LENGTH	BENT	COAT	LOCATION
S501	54	8'-2"	×	Х	SLAB AT ABUT VERT.
S502	6	26'-7"		Х	SLAB AT ABUT HORIZ.
S503	28	42'-2"		Х	SLAB - LONG TOP
S1104	28	42'-2"		Х	SLAB - LONG BOTTOM
S1105	26	30'-0"		Х	SLAB - LONG BOTTOM
S506	43	26'-7"		Х	SLAB - TRANSVERSE - TOP
S507	42	5'-0"		Х	SLAB - TRANSVERSE - TOP - EDGES
S608	57	26'-7"		Х	SLAB - TRANSVERSE - BOTTOM
S509	128	4'-5"	Х	Х	PARAPET - VERT.
S510	128	6'-8"	×	Х	PARAPET - VERT.
S511	16	42'-2"		Х	PARAPET - HORIZ.

NO.	DATE	F	REVISION						
	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION								
	STRUCTURE B-13-691								
	DRAWN PLANS BY DTH CKD.								
S	UPE	RSTRUC	SHEE	ET 9					
		DETAILS							

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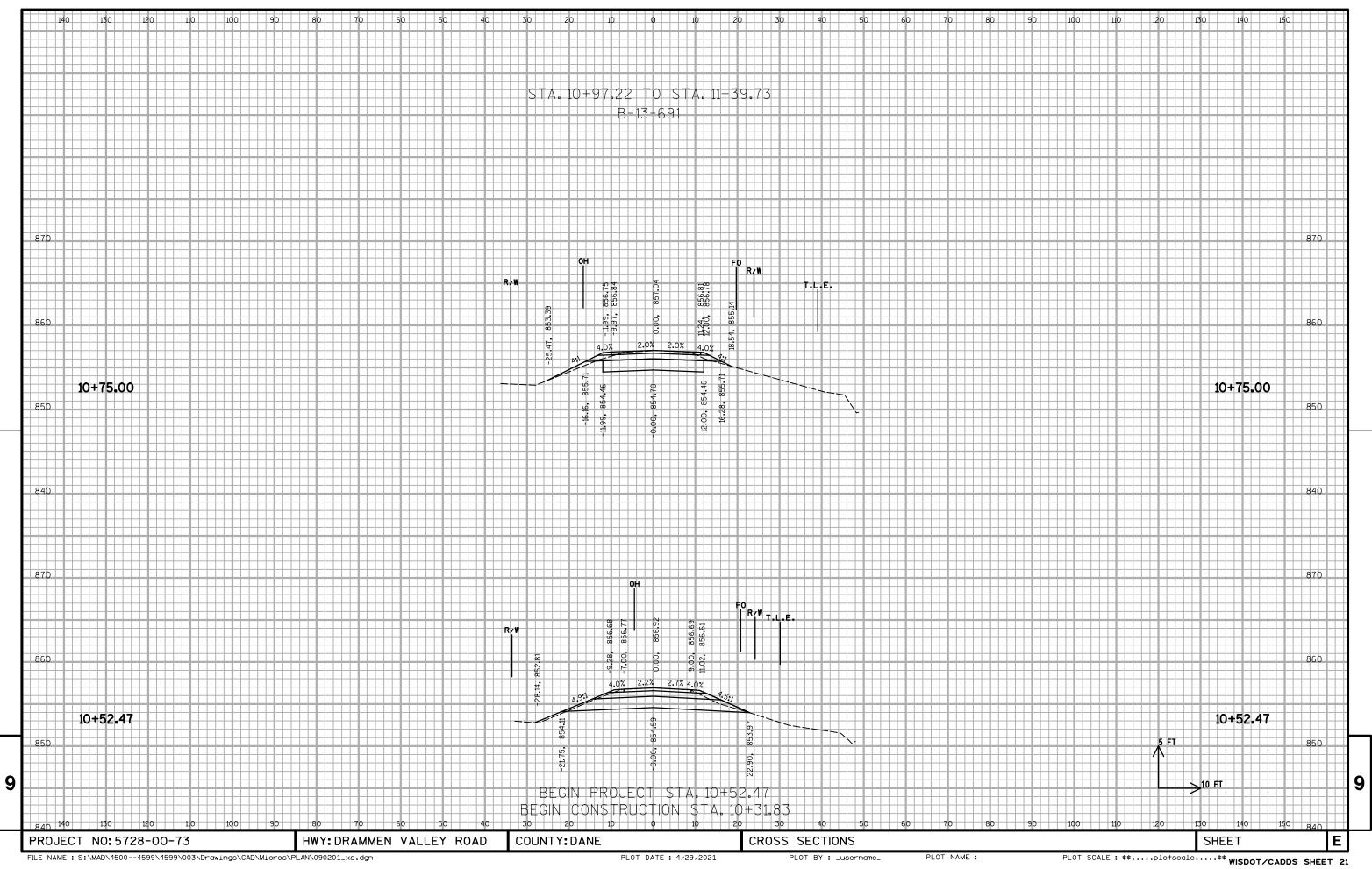
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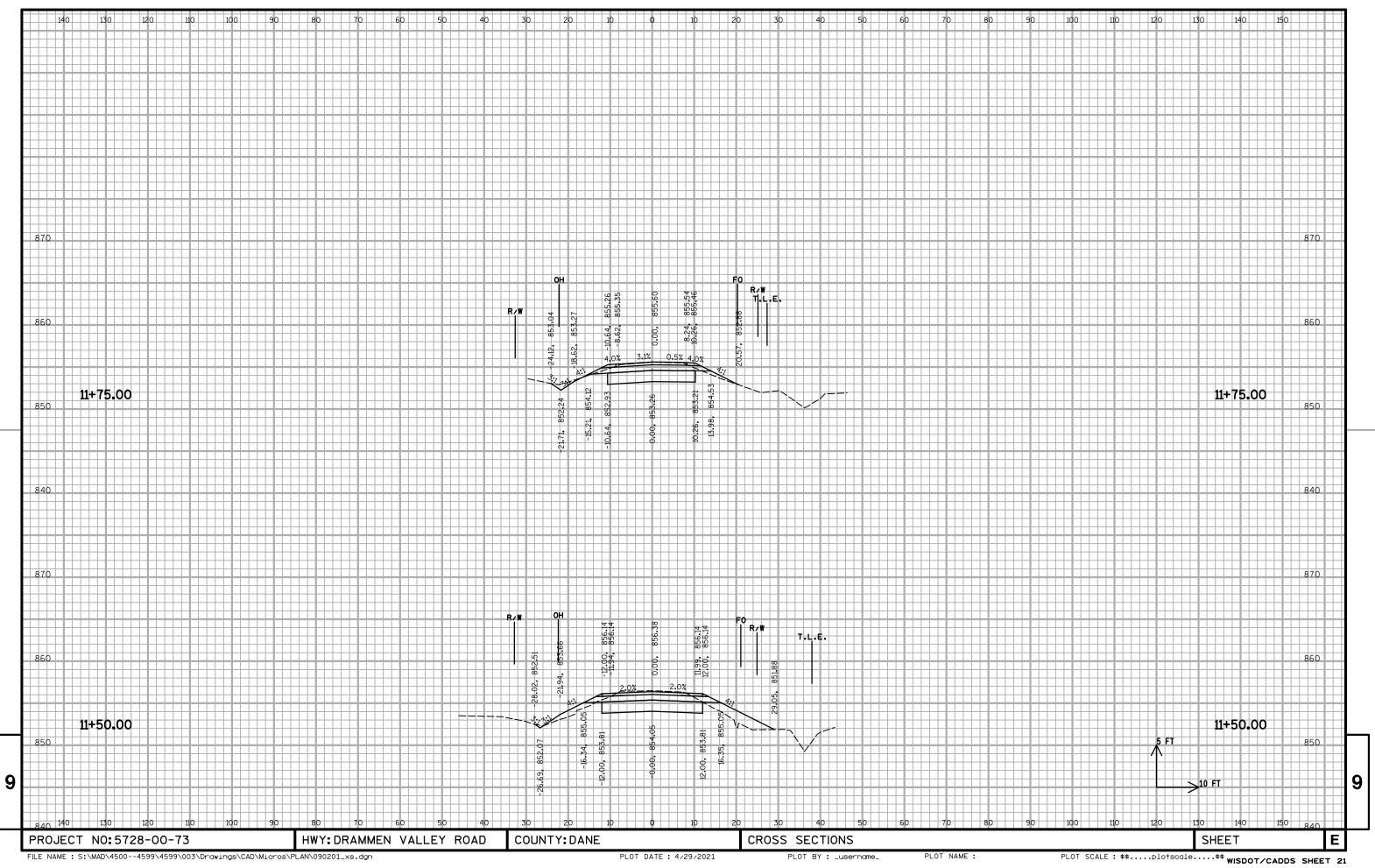
DRAMMEN VAL	DRAMMEN VALLEY RD				INCREMEN'	INCREMENTAL VOL (CY)(UNADJUSTED)		CUMULATIVE VOL (CY)			
										STRUCTURE	
								CUT	EXPANDED	EXCAVATION	MASS
		СПТ	FILL	EBS	CUT	FILL		1.00	FILL	1.00	ORDINATE
STATION	DISTANCE	NOTE 1	NOTE 2	(5% OF CUT)	NOTE 1	NOTE 2	EBS	NOTE 1	1.25		NOTE 3
10+52		71.4	1.4	3.4	0	0	0	0	0	0	0
10+75	23	55.0	3.3	2.6	53	2	3	53	2	0	48
10+97	22	55.0	3.3	2.6	45	3	2	97	6	0	87
11+39		57.8	21.9	2.8	0	0	0	97	6	О	87
11+50	11	57.8	21.9	2.8	24	9	1	121	17	О	98
11+75	25	51.9	2.2	2.5	51	11	2	172	31	0	133
11+82	7	70.3	0.5	3 <b>.</b> 3	15	0	1	187	31	0	147
			COLUMN	TOTALS	187	25	9				·

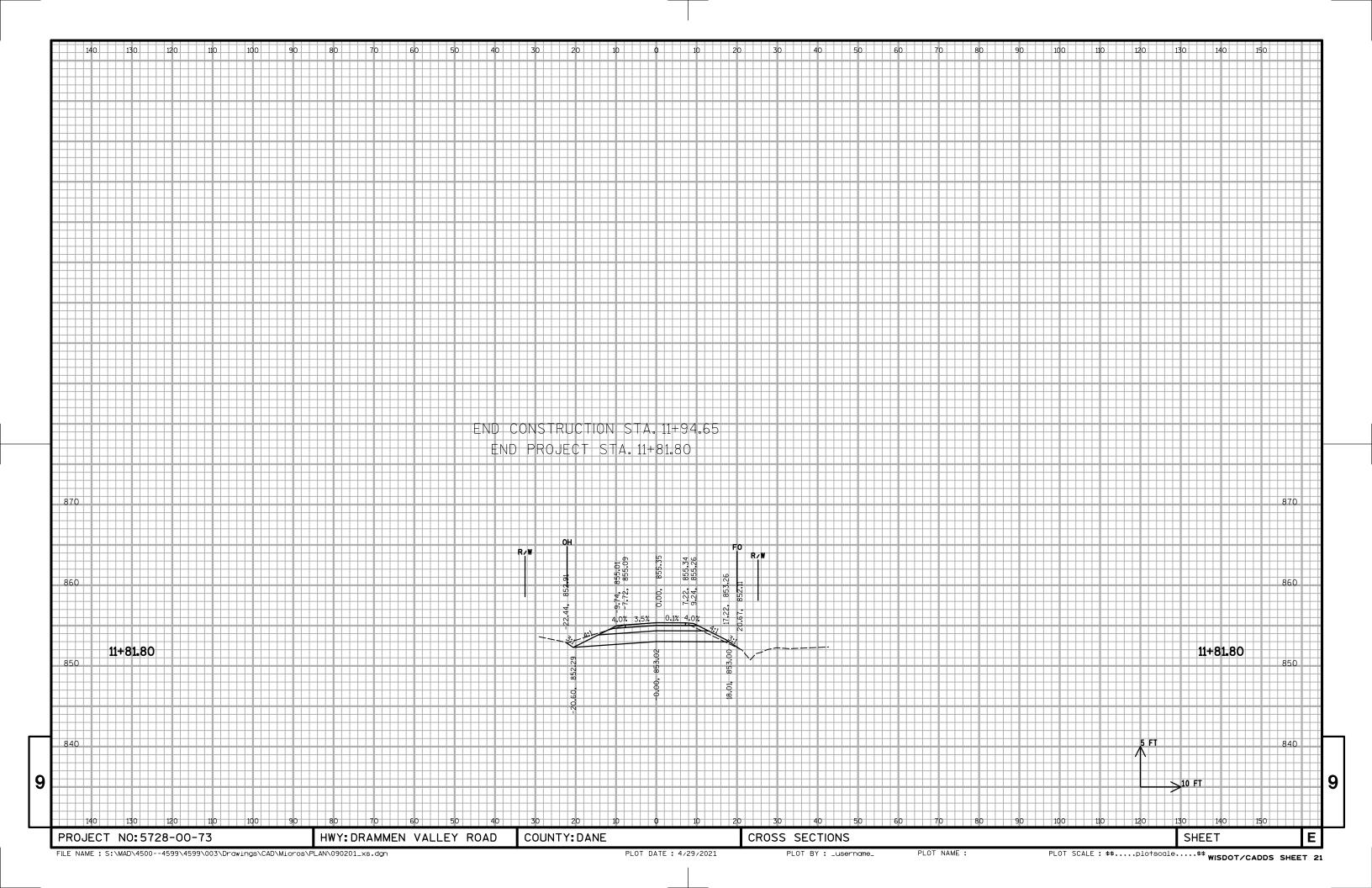
# NOTES:

- 1) CUT: CUT INCLUDES SALVAGED PAVEMENT MATERIAL.
- 2) FILL: FILL DOES NOT INCLUDE SALVAGED/UNUSABLE PAVEMENT MATERIAL
- 3) MASS ORDINATE: MASS ORDINATE = (CUT) (FILL \* FILL FACTOR)

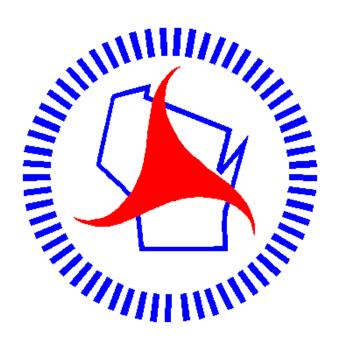
COUNTY: DANE HWY: DRAMMEN VALLEY ROAD PROJECT NO:5728-00-73 EARTHWORK SHEET PLOT NAME:







Notes



# Wisconsin Department of Transportation

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