PROJECT ID: WITH: N/A 9487-00-7

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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.	5	Plan and Profile
Section No.	6	Standard Detail Drawings
Section No.	7	Sign Plates
Section No.	8	Structure Plans
Section No.	9	Computer Earthwork Data
Section No.	9	Cross Sections

etails

TOTAL SHEETS = 76

JANUARY 2022

ORDER OF SHEETS

PROJECT LOCATION -



DESIGN DESIGNATION 9487-00-00 2022 200

A.A.D.T.	2022	=	366
A.A.D.T.	2042	=	404
D.H.V.		=	51
D.D.		=	40/60
Т.		=	20.0%
DESIGN SPEED		=	55 MPH
ESALS		=	170,000

CONVENTIONAL SYMBOLS

LINCOLN

PLAN

CORPORATE LIMITS

PROPERTY LINE

LOT LINE	
LIMITED HIGHWAY EASEMENT	L-
EXISTING RIGHT OF WAY	
PROPOSED OR NEW R/W LINE	
SLOPE INTERCEPT	
REFERENCE LINE	
EXISTING CULVERT	
PROPOSED CULVERT (Box or Pipe)	
COMBUSTIBLE FLUIDS	-0
MARSH AREA	<u>[</u>]

WOODED OR SHRUB AREA

//////	PROFILE GRADE LINE
	ORIGINAL GROUND
	MARSH OR ROCK PROFILE (To be noted as such)
- 0 <u></u>	SPECIAL DITCH
	GRADE ELEVATION
	CULVERT (Profile View)
300'EB'	UTILITIES
	ELECTRIC
	FIBER OPTIC
	GAS
MA	SANITARY SEWER
-CAUTION-	STORM SEWER
W.	TELEPHONE
1-1-1	WATER
	UTILITY PEDESTAL

POWER POLE

TELEPHONE POLE



CTH YY



FILE NAME: I:\CLIENTS-MENO\L\L6192 LINCOLN COUNTY\001 9487-00-00 STH 86-LOST AVENUE NORTH FORK SPIRIT RIVER BRIDGE CTH YY LINCOLN COUNTY\94870000\SHEETSPLAN\010101-TI,DWG PLOT DATE : 7/14/2021 12:02 PM PLOT BY : NICK THOMPSON PLOT NAME :

COUNTY:

GENERAL NOTES

2

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

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

DISTURBED AREAS WITHIN THE RIGHT OF WAY ARE TO BE COVERED WITH SALVAGED TOPSOIL, FERTILIZED, SEEDED, AND EROSION MAT INSTALLED AS DIRECTED BY THE ENGINEER.

WETLANDS ARE PRESENT WITHIN THE PROJECT LIMITS. DO NOT OPERATE EQUIPMENT OUTSIDE OF THE SLOPE INTERCEPTS. DO NOT STORE OR STOCKPILE MATERIALS IN WFTI ANDS

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

THE WISCONSIN DEPARTMENT OF TRANSPORTATION WILL FURNISH THE CONTRACTOR A MONUMENT WHICH SHALL BE SET IN THE STRUCTURE AS DESIGNATED BY ENGINEER.

STANDARD ABBREVIATIONS

ABUT	ABUTMENT	OFF
AGG	AGGREGATE	PC
ET AL	AND OTHERS	PI
AADT	ANNUAL AVERAGE DAILY TRAF	FICPT
BF	BACK FACE	POL
BM	BENCHMARK	PE
C/L OR €	CENTERLINE	PL
Δ	CENTRAL ANGLE OR DELTA	PSI
CLR	CLEAR	PROP
CONC	CONCRETE	R
CONST	CONSTRUCTION	RR
COR	CORNER	REBAR
CMP	CORRUGATED METAL PIPE	req'd
CTH	COUNTY TRUNK HIGHWAY	RT
CR	CREEK	RHF
CFS	CUBIC FEET/SECOND	R/W
CULV	CULVERT	RD
D	DEGREE OF CURVE	SEC
DHV	DESIGN HOUR VOLUME	S
DIA	DIAMETER	SE
E	EAST	SW
EL	ELEVATION	STH
EST	ESTIMATED	STA
FPS	FEET PER SECOND	SE
FE	FIELD ENTRANCE	Т
FT	FOOT (FEET)	TEL
FIG	FOOTING	IEMP
FDN	FOUNDATION	
FF	FRONTFACE	ILE TLOD T/
IP I T	IRON PIN	TLORI/L
LI		
LHF		I Y P
L	LENGTH OF CURVE	U/G
		USH
		VAK
		V
		VPC
NC		VPI
NE		VF1 \\\/
	NORTHWEST	VR
NO	NUMBER	10
	NOMBEN	

OFFSET POINT OF CURVATURE POINT OF INTERSECTION POINT OF TANGENCY POINT ON LINE PRIVATE ENTRANCE PROPERTY LINE POUNDS/SQUARE INCH PROPOSÉD RADIUS RAILROAD REINFORCEMENT BAR REQUIRED RIGHT RIGHT-HAND FORWARD RIGHT-OF-WAY ROAD SECTION SOUTH SOUTHEAST SOUTHWEST STATE TRUNK HIGHWAY STATION SUPER ELEVATION TANGENT TELEPHONE TEMPORARY TEMPORARY INTEREST TEMPORARY LIMITED EASEMENT TRANSIT LINE TRUCKS TYPICAL UNDERGROUND UNITED STATES HIGHWAY VARIABLE VELOCITY VERTICAL POINT OF CURVATURE VERTICAL POINT OF INTERSECTION VERTICAL POINT OF TANGENCY WEST YARD

DESIGN CONSULTANT CONTACT

CEDAR CORPORATION 604 WILSON AVENUE MENOMONIE, WI 54751 ATTN: TROY L. PETERSON, P.E. PH: (715) 235-9081 EMAIL: troy.peterson@cedarcorp.com

MUNICIPALITIES

LINCOLN COUNTY HIGHWAY DEPARTMENT 100 COOPER ST./P.O. BOX 110 MERRILL, WI 54452 ATTN: JOHN HANZ, HIGHWAY COMMISSIONER PH: (715)539-2500 EMAIL: john.hanz@co.lincoln.wi.us

UTILITIES

COMMUNICATION LUMEN (CENTURYLINK) 425 ELLINGSON AVE./P.O. BOX 78 HAWKINS, WI 54530 ATTN: BRIAN HUHN, ENGINEER II (715)532-0023 РН∙ EMAIL: brian.huhn@lumen.com

DNR CONTACT

DNR NORTHERN REGION HEADQUARTERS **107 SUTLIFF AVENUE** RHINELANDER, WI 54501 ATTN: WENDY HENNIGES PH: (715)365-8916 EMAIL: wendy.henniges@wisconsin.gov

PRICE COUNTY HIGHWAY DEPARTMENT 704 NORTH LAKE AVE./P.O. BOX 169 PHILLIPS, WI 54555 ATTN: JOE BARATKA, HIGHWAY COMMISSIONER PH: (715) 339-3081 EMAIL: joe.baratka@co.price.wi.us

ELECTRIC

PRICE ELECTRIC COOPERATIVE W6803 SPRINGS DR./P.O. BOX 110 PHILLIPS, WI 54555 ATTN: BEN ORYSEN, MANAGER OF OPERATIONS (715)339-2155 x132 PH: EMAIL: borysen@price-electric.com

RUNOFE COFFETCIENT TABLE

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

TOTAL PROJECT AREA = 0.43 ACRES

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.43 ACRES

PROJECT NO	D: 9487-00-70	HWY: CTH YY	COUNTY: LINCOLN		GENERAL NOTES	5		
	CUENTS MENOULUS CARD UNCOUNTO AND AREA ON ON STURE LOST	AVENUE NORTH FORK SDIRT RIVER RRIDGE CTU VV UNCOIN COUNTYONS		7/14/2021 12:00 PM	DLOT DV -	NICK THOMPSON	DLOT NAME :	

\SHEETSPLAN\020101-GN.DWG PLOT DATE : 7/14/2021 12:06 PM LAYOUT NAME - GENERAL NOTES

NICK THOMPSON

or (800)242-8511 **DENOTES UTILITIES THAT ARE <u>NOT</u> DIGGERS HOTLINE MEMBERS.

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SHEET

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C/L R/W 70' VARIES 50'-80' 11' 11' 2% 2% 2% 2% 4:1 3:1 10:1 4:1 AGGREGATE SHOULDER ASPHALTIC SURFACE └─ BASE AGGREGATE DENSE EXISTING GROUND IN FILL EXISTING TYPICAL SECTION - CTH YY STA 7+71.77 - STA 12+30.78 PROJECT NO: 9487-00-70 HWY: CTH YY COUNTY: LINCOLN TYPICAL SECTIONS

FILE NAME : I:\CLIENTS-MENO\\L\6192 LINCOLN COUNTY\001 9487-00-00 STH 86-LOST AVENUE NORTH FORK SPIRIT RIVER BRIDGE CTH YY LINCOLN COUNTY\94870000\SHEETSPLAN\020301-TS.DWG PLOT DATE : 7/14/2021 12:27 PM PLOT BY : NICK THOMPSON PLOT NAME : LAYOUT NAME - TS-1 ORIG

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LAYOUT NAME - TS-2 ORIG



FILE NAME: I:\CLIENTS-MENO\L\L6192 LINCOLN COUNTY\001 9487-00-00 STH 86-LOST AVENUE NORTH FORK SPIRIT RIVER BRIDGE CTH YY LINCOLN COUNTY\94870000\SHEETSPLAN\020301-TS.DWG PLOT DATE: 7/14/2021 12:27 PM PLOT BY: NICK THOMPSON PLOT NAME: LAYOUT NAME - TS-3 ORIG

2

PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 42



WISDOT/CADDS SHEET 42

FILE NAME : I:\CLIENTS-MENO\L\L6192 LINCOLN COUNTY\001 9487-00-00 STH 86-LOST AVENUE NORTH FORK SPIRIT RIVER BRIDGE CTH YY LINCOLN COUNTY\94870000\SHEETSPLAN\022001-EC.DWG PLOT DATE : 7/27/2021 1:16 PM PLOT BY : JORDAN DISTERHAFT PLOT NAME LAYOUT NAME - Erosion Control



I:\CLIENTS-MENO\L\L6192 LINCOLN COUNTY\001 9487-00-00 STH 86-LOST AVENUE NORTH FORK SPIRIT RIVER BRIDGE CTH YY LINCOLN COUNTY\94870000\SHEETSPLAN\024501-PM.DWG PLOT DATE : LAYOUT NAME - 24501-pm FILE NAME : 7/27/2021 11:51 AM



WISDOT/CADDS SHEET 42

FILE NAME : I:\CLIENTS-MENO\L\L6192 LINCOLN COUNTY\001 9487-00-00 STH 86-LOST AVENUE NORTH FORK SPIRIT RIVER BRIDGE CTH YY LINCOLN COUNTY\94870000\SHEETSPLAN\027201-AD.DWG PLOT DATE : 7/27/2021 11:52 AM PLOT BY : JORDAN DISTERHAFT PLOT NAME : LAYOUT NAME - Alignment

					9487-00-70	
Line	Item	Item Description	Unit	Total	Qty	
0002	203.0260	Removing Structure Over Waterway Minimal Debris (structure) 01. 10+00	EACH	1.000	1.000	
004	204.0165	Removing Guardrail	LF	394.000	394.000	
006	205.0100	Excavation Common	CY	427.000	427.000	
800	206.1000	Excavation for Structures Bridges (structure) 01. B-35-118	LS	1.000	1.000	
010	210.1500	Backfill Structure Type A	TON	500.000	500.000	
012	213.0100	Finishing Roadway (project) 01. 9487-00-70	EACH	1.000	1.000	
014	305.0110	Base Aggregate Dense 3/4-Inch	TON	73.000	73.000	
016	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	569.000	569.000	
018	415.0060	Concrete Pavement 6-Inch	SY	9.000	9.000	
020	415.0410	Concrete Pavement Approach Slab	SY	132.000	132.000	
022	455.0605	Tack Coat	GAL	19.000	19.000	
024	465.0105	Asphaltic Surface	TON	81.000	81.000	
026	465.0315	Asphaltic Flumes	SY	23.000	23.000	
)28	502.0100	Concrete Masonry Bridges	CY	193.000	193.000	
)30	502.3200	Protective Surface Treatment	SY	247.000	247.000	
032	502.3210	Pigmented Surface Sealer	SY	108.000	108.000	
034	503.0137	Prestressed Girder Type I 36W-Inch	LF	332.000	332.000	
036	505.0400	Bar Steel Reinforcement HS Structures	LB	4,300.000	4,300.000	
038	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	24,510.000	24,510.000	
040	506.2605	Bearing Pads Elastomeric Non-Laminated	EACH	8.000	8.000	
042	506.4000	Steel Diaphragms (structure) 01. B-35-118	EACH	6.000	6.000	
044	516.0500	Rubberized Membrane Waterproofing	SY	17.000	17.000	
046	550.0500	Pile Points	EACH	14.000	14.000	
048	550.2108	Piling CIP Concrete 10 3/4 X 0.50-Inch	LF	700.000	700.000	
050	601.0588	Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type TBT	LF	70.000	70.000	
052	601.0590	Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type TBTT	LF	24.000	24.000	
)054	606.0200	Riprap Medium	CY	4.000	4.000	
0056	606.0300	Riprap Heavy	CY	200.000	200.000	

LF

LF

EACH

EACH

EACH

EACH

MGAL

SY

LF

LF

EACH

EACH

SY

SY

CWT

LB

LB

MGAL

EACH

EACH

SF

140.000

157.600

4.000

1.000

1.000

8.000

385.000

802.000

802.000

2.000

2.000

385.000

172.000

0.410

18.000

18.000

7.000

5.000

21.000

7.000

4.000

140.000

157.600

4.000

4.000

1.000

1.000

8.000

385.000

802.000

802.000

2.000

2.000

385.000

172.000

0.410

18.000

18.000

7.000

5.000

21.000

7.000

Estimate Of Quantities

3

612.0406

614.0150

614.2500

614.2610

618.0100

619.1000

624.0100

625.0500

628.1504

628.1520

628.1905

628.1910

628.2008

628.6005

629.0210

630.0120

630.0200

630.0500

634.0614

637.2230

638.2602

0058

0060

0062

0064

0066

0068

0070

0072

0074

0076

0078

0080

0082

0084

0086

0088

0090

0092

0094

0096

0098

Pipe Underdrain Wrapped 6-Inch

MGS Thrie Beam Transition

Mobilization

Silt Fence

Salvaged Topsoil

Turbidity Barriers

Fertilizer Type B

Seed Water

Silt Fence Maintenance

Seeding Mixture No. 20

Posts Wood 4x6-Inch X 14-FT

Signs Type II Reflective F

Removing Signs Type II

Seeding Temporary

Mobilizations Erosion Control

Erosion Mat Urban Class I Type B

Mobilizations Emergency Erosion Control

Water

MGS Guardrail Terminal EAT

Anchor Assemblies for Steel Plate Beam Guard

Maintenance And Repair of Haul Roads (project) 01. 9487-00-70



		Estimate Of Quantities								
					9487-00-70					
Line	Item	Item Description	Unit	Total	Qty					
0100	638.3000	Removing Small Sign Supports	EACH	7.000	7.000					
0102	642.5001	Field Office Type B	EACH	1.000	1.000					
0104	643.0300	Traffic Control Drums	DAY	70.000	70.000					
0106	643.0420	Traffic Control Barricades Type III	DAY	1,260.000	1,260.000					
0108	643.0705	Traffic Control Warning Lights Type A	DAY	1,960.000	1,960.000					
0110	643.0900	Traffic Control Signs	DAY	980.000	980.000					
0112	643.1050	Traffic Control Signs PCMS	DAY	14.000	14.000					
0114	643.5000	Traffic Control	EACH	1.000	1.000					
0116	645.0111	Geotextile Type DF Schedule A	SY	56.000	56.000					
0118	645.0120	Geotextile Type HR	SY	384.000	384.000					
0120	646.1020	Marking Line Epoxy 4-Inch	LF	1,084.000	1,084.000					
0122	650.4500	Construction Staking Subgrade	LF	366.000	366.000					
0124	650.5000	Construction Staking Base	LF	319.000	319.000					
0126	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	94.000	94.000					
0128	650.6500	Construction Staking Structure Layout (structure) 01. B-35-118	LS	1.000	1.000					
0130	650.9910	Construction Staking Supplemental Control (project) 01. 9487-00-70	LS	1.000	1.000					
0132	650.9920	Construction Staking Slope Stakes	LF	366.000	366.000					
0134	690.0150	Sawing Asphalt	LF	312.000	312.000					
0136	715.0502	Incentive Strength Concrete Structures	DOL	1,160.000	1,160.000					
0138	715.0720	Incentive Compressive Strength Concrete Pavement	DOL	500.000	500.000					
0140	999.2000.S	Installing and Maintaining Bird Deterrent System (station) 01. 10+00	EACH	1.000	1.000					
0142	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	600.000	600.000					
0144	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	300.000	300.000					



DIVISION	FROM/TO		205 COMMON (CUT (2)	0100 EXCAVATION 1) EBS EXCAVATION	SALVAGED/UNUSABLE PAVEMENT MATERIAL	AVAILABLE MATERIAL	UNEXPANDED	EXPANDED FILL (13) FACTOR	MASS ORDINATE +/-	WASTE	COMMENT
	STATION	LUCATION	(2)	(3)	(4)	(5)	FILL	1.25	(14)	WASTE	COMMENT
			107		5.4	272	70	2.2	225	200	
CTHYY	0/+//./1/12+30./8		427	0	54	3/3	/0	88	286	286	
DIVISION 1 SUBTOTAL			427	0	54	373	70	88	286	286	
GRAND TOTAL			427	0	54	373	70	88	286	286	
	TOTAL CO	DMMON EXC		27							

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

OR

OR

OR

(5) AVAILABLE MATERIAL = CUT - SALVAGED/UNUSUABLE PAVEMENT MATERIAL

(13) EXPANDED FILL FACTOR = 1.25

DEPENDING ON SELECTIONS:

EXPANDED FILL = (UNEXPANDED FILL - EXPANDED ROCK - REDUCED MARSH - REDUCED EBS) * FILL FACTOR

EXPANDED FILL = (UNEXPANDED FILL - EXPANDED ROCK - REDUCED EBS) * FILL FACTOR

EXPANDED FILL = (UNEXPANDED FILL - EXPANDED ROCK - REDUCED MARSH) * FILL FACTOR

EXPANDED FILL = (UNEXPANDED FILL - EXPANDED ROCK) * 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.

BASE AGGREGATE DENSE

		<u>REMOVING</u>	GUARDRAIL										
									305.0110	305.0120	624.0100		
										BASE			
			204.0165						BASE	AGGREGATE			
			REMOVING						AGGREGATE	DENSE 1 1/4-			
			GUARDRAIL						DENSE 3/4-INCH	INCH	WATER		
CATEGORY	STATION TO STATION	LOCATION	LF	REMARKS	CATEGORY	STATION TO	STATION	LOCATION	TON	TON	MGAL	REMARKS	
0010		DT	101										
0010	8+52 - 9+53	KI LT	101		0010	8+21 -	9+57	MAINLINE	-	295	4		
0010	8+82 - 9+/8	L I	97		0010	10+43 -	11+84	MAINLINE	-	274	4		
0010	10+20 - 11+17	RI	97		0010	7+78 -	9+57	LT SHOULDER	20	-	-		
0010	10+46 - 11+45	LT	99		0010	10+66	12+31	LT SHOULDER	18	-	-		
					0010	7+87 -	9+34	RT SHOULDER	16	-	-		
		TOTAL 0010	394		0010	10+43 -	12+06	RT SHOULDER	19	-	-		
								TOTAL 0010	73	569	8		

PROJECT NO:	9487-00-70	HWY: CTH YY	COUNTY: LINCOLN	MISCELLANEOUS QUANTITIES

FILE NAME : I:\CLIENTS-MENO\L\L6192 LINCOLN COUNTY\001 9487-00-00 STH 86-LOST AVENUE NORTH FORK SPIRIT RIVER BRIDGE CTH YY LINCOLN COUNTY\94870000\SHEETSPLAN\030201-MQ.DWGPLOT DATE : 7/14/2021 12:40 PM PLOT BY : NICK THOMPSON PLOT NAME : LAYOUT NAME - 01

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					CONCR	ETE PAVEMENT APPR	OACH SLAB							
														455.0605
						415.0410	415.0060							
						CONCRETE	CONCRETE							TACK COAT
						PAVEMENT	PAVEMENT		CATEGORY	STATION	TO	STATION	LOCATION	GAL
						APPROACH SLAB	6-INCH							
	CATEGORY	STATION	TO	STATION	LOCATION	SY	SY	REMARKS	0010	8+21	-	9+33	MAINLINE	9
									0010	8+97	-		RT	-
	0010	9+33.14	-	9+57.37	MAINLINE	64	-		0010	9+21	-		LT	-
3	0010	10+42.63	-	10+66.86	MAINLINE	68	9		0010	10+58	-	11+84	MAINLINE	10
					TOTAL 0010	132	9						TOTAL 0010	19

EROSION CONTROL ITEMS

					614.2500 MGS THRIE	614.2610							628.1504	628.1520	628.1905
					BEAM TRANSITION	MGS GUARDRAIL									MOBILIZATIONS
CATEGORY	STATION	ТО	STATION	LOCATION	LF	EACH	REMARKS							SILT FENCE	EROSION
													SILT FENCE	MAINTENANCE	CONTROL
0010	8+44	-	9+36	RT	39.4	1		CATEGORY	STATION	TO	STATION	LOCATION	LF	LF	EACH
0010	8+67	-	9+60	LT	39.4	1									
0010	10+40	-	11+33	RT	39.4	1		0010	7+74	-	10+00	LT & RT	399	399	1
0010	10+64	-	11+56	LT	39.4	1		0010	10+00	-	12+38	LT & RT	403	403	1
				TOTAL 0010	157.6	4						IOIAL 0010	802	802	2

LANDSCAPING ITEMS

<u>GUARDRAIL</u>

					605 0500	c20, 2000	600.0010	622.0422	622.0200	622.0522			
					625.0500	628.2008	629.0210	630.0120	630.0200	630.0500			
						EROSION MAT							
					SALVAGED	URBAN CLASS I	FERTILIZER TYPE	SEEDING	SEEDING				
					TOPSOIL	TYPE B	В	MIXTURE NO. 20	TEMPORARY	SEED WATER			
CATEGORY	STATION	ТО	STATION	LOCATION	SY	SY	CW⊤	LB	LB	MGAL	REMARKS		
												CATEGORY	STATION
0010	7+78	-	8+18	LT	20	20	0.02	1	1	0			
0010	7+87	-	9+34	RT	21	21	0.11	5	5	2		0010	8+97
0010	8+33	-	9+19	LT	59	59	0.06	2	2	1		0010	9+21
0010	9+23		9+57	LT	31	31	0.04	2	2	1			
0010	10+43	-	12+06	R⊤	92	92	0	3	3	1			
0010	10+66	-	12+31	LT	162	162	0.11	5	5	2		_	
				TOTAL 0010	385	385	0.41	18	18	7			
1													

PROJECT NO: 9487-00-70	HWY: CTH YY	COUNTY: LINCOLN	MISCELLANEOUS QUANTITIES

FILE NAME : I:\CLIENTS-MENO\L\L6192 LINCOLN COUNTY\001 9487-00-00 STH 86-LOST AVENUE NORTH FORK SPIRIT RIVER BRIDGE CTH YY LINCOLN COUNTY\94870000\SHEETSPLAN\030201-MQ,DWGPLOT DATE : 11/5/2021 12:09 PM PLOT BY : NICK THOMPSON PLOT NAME : LAYOUT NAME - 02

<u>ASPHA</u>	LTIC ITEMS				
5	465.0105 ASPHALTIC SURFACE TON	465.0315 ASPHALTIC FLUMES SY	REMARKS		
	39 - 42 81	- 12 11 - 23			3
<u>EMS</u> .1905	628.1910	628.6005			
IZATIONS DSION ITROL ACH	MOBILIZATION 5 EMERGENCY EROSION CONTROL EACH	TURBIDITY BARRIERS SY	REMARKS		
1 1	1 1	92 80			
Ζ	2	172 <u>RIP RAP</u>			
	DI	606.0200			
ATION			REMARKS	_	
3+97 9+21	RT LT	2			
	TOTAL 0010	4			
			SHEET	E	

CONCRETE CURB & GUTTER ITEMS

3

CATEGORY	STATION T) STATIO	N LOC	CATION	601.0588 CONCRETE CURB & GUTTER 4- INCH SLOPED 36- INCH TYPE TBT LF	601.0590 CONCRETE CURB & GUTTER 4- INCH SLOPED 36- INCH TYPE TBTT LF	REMARKS	CATEGORY	STATION	LOCATION	SIGN NUMBER	SIGN CODE	SIZE	634.0614 POSTS WOOD 4X6-INCH X 14- FT EACH	637.2230 SIGNS TYPE II REFLECTIVE F SF	REMARKS
								0010	9+32	R⊤	1	W5-52R	12X36	1	3.0	BRIDGE HASK MARKS
0010	8+86.69	9+33.5	Э	R⊤	47	-		0010	9+55	LT	2	W5-52L	12X36	1	3.0	BRIDGE HASH MARKS
0010	9+10.51	9+33.1	4	LT	23	-		0010	10+45	RΤ	3	W5-52L	12X36	1	3.0	BRIDGE HASH MARKS
0010	9+33.14	9+57.4	C	LT	-	24		0010	10+68	LT	4	W5-52R	12X36	1	3.0	BRIDGE HASH MARKS
								0010	11+38	LT	5	W3-1	36X36	1	9.0	STOP AHEAD
			TOTA	AL 0010	70	24										
											TOTAL 0010			5	21.0	

REMOVING SIGN ITEMS

				638.2602 REMOVING SIGNS TYPE II	638.3000 REMOVING SMALL SIGN SUPPORTS							646. MARKING LINE I	1020 E EPOXY 4-INCH .F	
CATEGORY	STATION	LOCATION	NUMBER	EACH	EACH	REMARKS	CATEGORY	STATION	TO	STATION	LOCATION	YELLOW	WHITE	REMARKS
0010	9+25	R⊤	1R	1	1	WEIGHT LIMIT 40 TONS	0010	8+21	-	11+67	RT EDGE LINE	-	345	SOLID WHITE
0010	9+51	R⊤	2R	1	1	BRIDGE HASH MARKS	0010	8+46	-	11+84	LT EDGE LINE	-	339	SOLID WHITE
0010	9+78	LT	3R	1	1	BRIDGE HASH MARKS	0010	9+00	-	11+00	CENTERLINE	400	-	DOUBLE SOLID YELLOW
0010	10+21	RT	4R	1	1	BRIDGE HASH MARKS					SUBTOTAL	400	684	
0010	10+48	LT	5R	1	1	BRIDGE HASH MARKS								
0010	11+11	LT	6R	1	1	WEIGHT LIMIT 40 TONS	_				TOTAL 0010	1,0)84	
0010	11+38	LT	7R	1	1	STOP AHEAD								
		TOTAL 0010)	7	7									

TRAFFIC CONTROL ITEMS

ROJECT NO:	9487-00-70	HV	VY: CTH YY		COUNT	Y: LINCOLN		MISCELLANEOUS QUANTITIES					SHEET	E
	TOTAL 0010	70	1,260	1,960	980	14	1					1 T		
0010	PROJECT	-	1,260	1,960	980	-	1	NO POSTED DETOUR				14		
0010	7-DAY ADVANCED WARNING	70	-	-	-	14	-		0010	9+21	LT	7	RIPRAP AT END OF FLUME	
CATEGORY	LOCATION	DAY	DAY	DAY	DAY	DAY	EACH	REMARKS	0010	8+97	RΤ	7	RIPRAP ΔΤ ΕΝΙΣ ΟΕ ΕΙ ΠΜΕ	
		DRUMS	TYPEIII	LIGHTS TYPE A	CONTROL SIGNS	PCMS	CONTROL		CATEGORY	STATION	LOCATION	SY	REMARKS	
		CONTROL	BARRICADES	WARNING	TRAFFIC	CONTROL SIGNS	TRAFFIC				(HR		
			TRAFFIC	TRAFFIC								645.0120		
		643.0300	643.0420	643.0705	643.0900	643.1050	643.5000							

PROJECT NO: 9487-00-70	HWY: CTH YY	COUNTY: LINCOLN		MISCELLANEOUS	QUANTITIES	
FILE NAME : I:\CLIENTS-MENO\L\L6192 LINCOLN COUNTY\001 9487-00-00 STH 86-LOST	AVENUE NORTH FORK SPIRIT RIVER BRIDGE CTH YY LINCOLN COUNTY\948	70000\SHEETSPLAN\030201-MQ.DWGPLOT DATE :	7/14/2021 12:40 PM	PLOT BY :	NICK THOMPSON	PLOT NAME :

FILE NAME : I:\CLIENTS-MENO\L\L6192 LINCOLN COUNTY\001 9487-00-00 STH 86-LOST AVENUE NORTH FORK SPIRIT RIVER BRIDGE CTH YY LINCOLN COUNTY\94870000\SHEETSPLAN\030201-MQ.DWGPLOT DATE : 7/14/2021 12:40 PM LAYOUT NAME - 03

MARKING LINE EPOXY 4-INCH

SIGNING ITEMS

<u>GEOTEXTILE</u>

CONSTRUCTION STAKING ITEMS

					650.4500	650.5000	650.5500	650.9910.01	650.9920	
								STAKING		
							CONSTRUCTION	SUPPLEMENTAL		
					CONSTRUCTION		STAKING CURB	CONTROL	CONSTRUCTION	
					STAKING	CONSTRUCTION	GUTTER AND	(PROJECT) (01.	STAKING SLOPE	
					SUBGRADE	STAKING BASE	CURB & GUTTER	9487-00-70)	STAKES	
CATEGORY	STATION	TO	STATION	LOCATION	LF	LF	LF	LS	LF	REMARKS
0010	7+78	-	9+56	MAINLINE	178	155	-	-	178	
0010	8+87	-	9+34	RT	-	-	47	-	-	
0010	9+11	-	9+57	LT	-	-	47	-	-	
0010	10+43	-	12+31	MAINLINE	188	164	-	-	188	
0010		-		PROJECT	-	-	-	1	-	
				PROJECT TOTAL	366	319	94	1	366	

SAWING PAVEMENT

					690.0150 SAWING ASPHALT	
CATEGORY	STATION	TO	STATION	LOCATION	LF	REMARKS
0010	8+21	-	9+00	SOUTH APPROACH	159	
0010	11+00	-	11+84	NORTH APPROACH	153	
				TOTAL 0010	312	

PROJECT I	NO: 9487-00-70	HWY: CTH YY	COUNTY: LINCOLN		MISCELLANEOU	S QUANTITIES	
FILE NAME :	I:\CLIENTS-MENO\L\L6192 LINCOLN COUNTY\001 9487-00-00 STH 86-LOST LAYOUT NAME - 04	AVENUE NORTH FORK SPIRIT RIVER BRIDGE CTH YY LINCOLN COUNTY\94	370000\SHEETSPLAN\030201-MQ.DWGPLOT DATE :	7/14/2021 12:40 PM	PLOT BY :	NICK THOMPSON	PLOT NAME :

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Standard Detail Drawing List

09001 224	CONCRETE CURR & CUTTER
00D01-22A	CONCRETE CURP THESE AND CURP AND CUTTER ADDITIONS
00001-228	CONCRETE CURB, THES AND CURB AND GUTTER APPLICATIONS
08D04-05	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08E09-06	SILI FENCE
08E11-02	TURBIDITY BARRIER
12A03-10	NAME PLATE (STRUCTURES)
13A03-06	CONCRETE PAVEMENT SHOULDERS
13B02-09A	CONCRETE PAVEMENT APPROACH SLAB
13C01-19	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
13C11-12A	RURAL DOWELED CONCRETE PAVEMENT
13С11-12В	RURAL DOWELED CONCRETE PAVEMENT
14B42-07A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14в42-07в	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07D	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-04A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B45-05A	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14в45-05в	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05C	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05D	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
15C02-08A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-08B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15006-09	SIGNING & MARKING FOR TWO LANE BRIDGES
15C08-20A	LONGTTUDTNAL MARKING (MATNIITNE)
15C11-09B	CHANNEL TZTNG DEVICES DRIMS CONES BARRICADES AND VERTICAL PANELS
T)CTT 000	Channellizing Devices Droms, cones, Dannicades and Vertical Fanels



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DEPARTMENT OF TRANSPORTATION

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GENERAL NOTES

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

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







SILT FENCE TIE BACK (WHEN REQUIRED BY THE ENGINEER)

SILT FENCE ဖ 6 STATE OF WISCONSIN ш DEPARTMENT OF TRANSPORTATION ω APPROVED Δ 4-29-05 /S/ Beth Cannestra DATE CHIEF ROADWAY DEVELOPMENT ENGINEER Δ FHWA ഗ



- WATER ELEVATIONS.





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ALTERNATE LUG (FOR ATTACHMENT TO PRECAST STRUCTURES)

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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

(2) REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE



ALTERNATE LUG

NAME PLATE (STRUCTURES)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

3/26/10 DATE FHWA

/S/ Scot Becker CHIEF STRUCTURAL DEVELOPMENT ENGINEER 6

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TIE BAR TABLE

PAVEMENT DEPTH (D)	TIE BAR Size	TIE BAR Length (L)	MAX. TIE BAR Spacing		
< 10 1⁄2"	NO. 4	30"	36"		
≥ 10 ½"	NO. 5	36"	36"		
	NO. 4 *	30"	24" ^{**}		

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

** CONFORM TO 15" MINUMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN THE BARS WILL BE 30" AT TRANSVERSE JOINTS.

GENERAL NOTES

THE APPLICABLE SPECIAL PROVISIONS.

TRANSVERSE JOINT DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.

FINISH THE SHOULDER PAVEMENT CONFORMING TO SUBSECTION 415.3.8 OF THE STANDARD SPECIFICATIONS.

TIE BARS SHALL CONFORM TO SUBSECTION 505.2.4 OF THE STANDARD SPECIFICATIONS.



PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER ^{***}	CONTRACTION JOINT SPACING
5 1⁄2", 6",6 1⁄2"	NONE	12'
7" , 7 ¹ /2"	1''	14'
8", 8 ¹ /2"	1 1⁄4"	15'
9", 9 1⁄2"	1 1⁄4"	15'
10" & ABOVE	1 1/2"	15'

*** FOR DOWELED CONCRETE SHOULDERS WITH TRAPEZOIDAL CROSS SECTIONS, CHOSE THE APPROPRIATE DOWEL BAR DIAMETER BASED ON THE SMALLER PAVEMENT DEPTH (LIKELY THE OUTSIDE EDGE OF THE SHOULDER). IF USING BASKETS, USE BASKETS FOR THE AVERAGE THICKNESS OF THE CROSS SECTION.

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

SECTION A-A LONGITUDINAL CONSTRUCTION JOINT





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PAVEMENT SUPERVISOR

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GENERAL NOTES

CREATE A LONGITUDINAL JOINT FOR PAVEMENT WIDTHS GREATER

CORRELATE LONGITUDINAL JOINTS WITH LANE LINES

- (1) ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.
- (2) PAVEMENT THAT WAS IN PLACE PRIOR TO THE CONTRACT.

CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

DATE

/S/ Peter Kemp, P.E. PAVEMENT SUPERVISOR

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GENERAL NOTES

SURFACE.

FOR PAVEMENT SLABS OF VARYING WIDTHS, LOCATE THE OUTER MOST DOWEL BAR SO THAT THE CENTER OF THE BAR IS A MINIMUM OF 6 INCHES AND A MAXIMUM OF 18 INCHES FROM THE FREE EDGE OF PAVEMENT.

CONSTRUCTION JOINTS

(1) REFER TO TYPICAL CROSS SECTIONS FOR ADDITIONAL DETAILS.

SEE TABLE FOR JOINT SPACING

CONTRACTION JOINT LAYOUT

FOR DIVIDED HIGHWAY

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TRAVELED

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2'-0''



SEE TABLE FOR JOINT SPACING

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CONTRACTION JOINT LAYOUT

FOR TWO-LANE TWO-WAY HIGHWAY



CONTRACTION JOINTS

CONSTRUCT TRANSVERSE CONTRACTION JOINTS NORMAL TO THE CENTERLINE. SHOW THE LOCATION OF CONTRACTION JOINTS THROUGH INTERSECTIONS ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT

LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO CONTRACTION JOINTS.

(2) MEASURE THE ENTIRE PAVED WIDTH INCLUDING THE PORTION(S) LABELED PAVED SHOULDER AS CONCRETE PAVEMENT.

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
5 1/2",6",6 1/2"	NONE	12'
7",7 ¹ /2"	1"	14'
8" , 8 ¹ / ₂ "	1 1⁄4"	15'
9",9 /2"	1 1⁄4"	15'
10" & ABOVE	1 1⁄2"	15'

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

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RURAL DOWELED CONCRETE PAVEMENT

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION



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GENERAL NOTES

(1) OBTAIN THE ENGINEER'S APPROVAL FOR THE USE OF ALTERNATIVE DESIGNS OF THE DOWEL ASSEMBLY. USE MECHANICAL DOWEL BAR INSERTERS OR DOWEL ASSEMBLIES WHEN CONSTRUCTING CONTRACTION JOINTS.

(2) SECURE BASKETS WITH ANCHORS TO HOLD DOWEL BARS IN THE CORRECT POSITION AND ALIGNMENT. TYPE, LOCATION, NUMBER AND LENGTH OF ANCHORS ARE DEPENDENT UPON FIELD CONDITIONS.

(3) FORM OR SAW CONSTRUCTION JOINTS. PROVIDE A 1/4-INCH RADIUS AT FORMED JOINTS.

(4) PROVIDE A SMOOTH VERTICAL FACE FOR THE ENTIRE DEPTH OF THE PAVEMENT WHEN FORMING CONSTRUCTION JOINTS.

(5) INSTALL DOWEL BARS AT CONSTRUCTION JOINTS BY FORMING OR DRILLING. INSTALL FORMED DOWEL BARS 12 INCHES C-C AND 12 INCHES FROM PAVEMENT EDGE. REMOVE EXCESS CONCRETE FROM THE FREE END OF THE DOWEL BAR IF DOWEL BARS ARE FORMED THROUGH A HEADER BOARD. INSTALL DRILLED DOWEL BARS ACCORDING TO DRILLED DOWEL BAR CONSTRUCTION JOINT DETAIL.

(6) APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.

(7) ANCHOR DOWEL BARS INTO DRILLED HOLES WITH AN EPOXY. MAXIMUM DRILLED HOLE SIZE IS 1/8-INCH GREATER THAN DOWEL BAR DIAMETER, 9 INCHES IN LENGTH.

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RURAL DOWELED CONCRETE PAVEMENT

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

March 2018 DATE

/S/ Peter Kemp.P.E. PAVEMENT SUPERVISOR

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SDD 14B42 0 ð

DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

(9) 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS

POST BOLTS ARE A %" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT REQUIRES %" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND %" DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS

GUARD RAIL SPLICE BOLTS ARE A 5/8" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES 5%" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.



SECTION THRU W-BEAM RAIL

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MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION



SDD 14B42 . 0 **n**



SDD 14B42 07d

GENERAL NOTES

- (A) THE SLOPE IN THE AREA BOUNDED BY THE GRADELINE, THE HINGE POINT LINE (HPL) AND THE CLEAR ZONE LIMITS (CZL) SHALL BE 4:1 OR FLATTER.
- (B) AFTER FINAL ASSEMBLY, RECHECK CABLE TO BE SURE IT IS TAUT AND HAS NOT RELAXED
- © DIFFERENT MANUFACTURERS REQUIRE DIFFERENT PERFORATED W - BEAM RAIL END PANELS. SEE MANUFACTURER'S INFORMATION.
- D ATTACH ALUMINUM SHEET TO E.A.T. HEAD USING 4 STAINLESS STEEL SELF - TAPPING SCREWS. ONE SCREW PER CORNER.
- E HARDWARE MAY VARY BETWEEN MANUFACTURER SEE MANUFACTURER'S DRAWING FOR INFORMATION.

DIMENSIONS MAY VARY, MANUFACTURER'S INFORMATION.

SEE SDD 14B42 FOR MORE INFORMATION.

★ DO NOT ATTACH BLOCKOUTS TO POST 1 AND 2.

DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL

SEE MANUFACTURER'S DRAWING FOR SPLICE LOCATION, HARDWARE DIMENSIONS AND INSTALLATION INSTRUCTIONS.

THE CENTER OF THE UPPER 3 ½" DIAMETER HOLE ON POST NUMBER 3 THROUGH POST 9 IS TO BE FLUSH WITH THE GROUND LINE UP TO A MAXIMUM OF 2" ABOVE GROUND LINE. WOOD BLOCKS ON POSTS NUMBERED 3 THROUGH 9 MAY BE ADJUSTED UP TO 3" ABOVE THE TOP OF POST.









SECTION B - B TYPICAL AT POST NO. 2*









SDD 14B44 - 04b

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BILL OF MATERIALS

I SEE	DESCRIPTION MATERIALS PROVIDED BY MGS EAT MANUFACTURER. E MANUGACTURER'S DETAILS FOR MORE INFORMATION.
UPPE	R POST NO. 1 6" X 6" TUBE
LOWE	ER POST NO. 1
woo	D CRT
woo	D BLOCKOUT
PIPE	SLEEVE
BEAR	RING PLATE
BCT C	CABLE ASSEMBLY
ANCH	IOR CABLE BOX
GROU	JND STRUT
PERF	ORATED W-BEAM RAIL END PANEL, 12'-6" LONG.
STAN SECT	DARD W-BEAM RAIL. MULTIPLE SECTIONS REQUIRED. IONS VARY IN LENGTH.
IMPA	CT HEAD
EAT N (SEE	/ARKER POST - YELLOW APPROVED PRODUCTS LIST)
SOIL	PLATE
UPPE	R POST NO. 2
LOWE	ER POST NO. 2

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SDD14B44 - 04b

MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION



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MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION



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ESS DETAILS, ADJUST THE POSTION OF CONNECTIONS TO TUAL BRIDGE AND SITE DIMENSIONS. DRAINAGE FEATURE SEE PLAN FOR INFORMATION. 3.4 I''. HE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING (AL TO THE CONTRACT. A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A D BARRIER AND THRE BEAM CONNECTION PLATE, CONTRACTOR IS TO FIELD D BARRIER AND THRE BEAM CONNECTION PLATE, CONTRACTOR IS TO FIELD D BARRIER AND THRE DEAM CONNECTION PLATE, CONTRACTOR IS TO FIELD D LENGTH, ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRE THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE TER THAT IS?" OLD. X 5/32" THICK AND ONE PLATE WASHER. REPAIR ANY INSTALLATION. NECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE. D TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 '/2". THE BEAM MINAL NECTOR HEAD HER J. TO SIDE OF BARRIER	
<pre>ES DETAILS, ADJUST THE POSTION OF CONNECTIONS TO TUAL BRODE AND SITE DIMENSIONS. DRAINAGE FEATURE SEE PLAN FOR INFORMATION. 5 ± 1°. HE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING TAIL TO THE CONTRACT. A449 BOLTS, BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A D BARRIER AND THRIE BEAM CONNECTION PLATE, CONTRACTOR IS TO FIELD D BARRIER AND WASHER REQUIRED BETWEEN BOLT HEAD AND THRE THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE FIAT EXTEND THROUGH THE PARAPETS OF THIS TYPE, D TIMBER BLOCKOUT, BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 ½".</pre>	
DETAILS, ADJUST THE POSTION OF CONNECTIONS TO TUAL BRIDGE AND SITE DIMENSIONS. DRAINAGE FEATURE SEE PLAN FOR INFORMATION. 5 ± 1". HE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING TAL TO THE CONTRACT. A449 BOLTS, BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A D BARRIER AND THRE BEAM CONNECTION PLATE, CONTRACTOR IS TO FIELD ND LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE HER THAT IS 2" OLD, X 5/32" THICK AND ONE PLATE WASHER. REPAIR ANY INSTALLATION. NECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, D TIMBER BLOCKOUT, BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 ½". HE BEAM MINAL NECTOR HER J. TO SIDE OF BARRIER	ES
DRAINAGE FEATURE SEE PLAN FOR INFORMATION. S ± 1". HE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING TAL TO THE CONTRACT. A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A D BARRIER AND THRE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE THAT EXTEND THROUGH THE PARAPET AND ONE PLATE WASHER. REPAIR ANY INSTALLATION. NECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, D TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 ½". HE BEAM MINAL NECTOR HER J TC SIDE OF BARRIER	DETAILS.ADJUST THE POSTION OF CONNECTIONS TO TUAL BRIDGE AND SITE DIMENSIONS.
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	HE BEAM MINAL NECTOR HEAD HER 2.) TIC SIDE OF BARRIER

MIDWES Thrie B	GT GUARDRAIL SYSTEM Eam transition (MGS)	45-5d
DEPART	STATE OF WISCONSIN MENT OF TRANSPORTATION	4 B
APPROVED 07/2018 DATE FHWA	/S/ Rodney Taylor ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR	S.D.D. 1





GENERAL NOTES

FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

SUPPORTS.

FULL ROAD CLOSURES.

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)

 - 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 THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING
- (2) THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.
- (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 SIGNS AS SHOWN.
- (7)"EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.





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TEMPORARY PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC





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GENERAL NOTES

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

1 LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING

(2) MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

LEGEND

"T" MARKING

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

' BLACK CONTRAST		
_		
- ½" MAX. GROOVE ' BLACK CONTRAST	JOINT LINE	

LONGITUDINAL MARKING (MAINLINE)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED February 2020 DATE

/S/ Matthew Rauch STATEWIDE SIGNING AND MARKING ENGINEER

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GENERAL NOTES

- (2) LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.





TYPE II BARRICADE

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



TYPE III BARRICADE

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

★ IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

(1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.

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CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED May 2021 DATE

/S/ Andrew Heidtke WORK ZONE ENGINEER



PROJECT NO:	HWY:	COUNTY:			
			BLAT BATE AT MAN AND A C	A DLOT DY O	DLOT NAME -

GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4. 2. If signs are mounted on or behind barrier wall. see A4-10 sian plate. The Double Arrow sign (W12-1D) shall be mounted at a height of $2'-3''(\pm)$. The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52). Mile Markers (D10 series). In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3'' (+). 3. For expressways and freeways, mounting height is 7'- 3" (\pm) or $6'-3''(\pm)$ depending upon existence 4. Minimum mounting height for signs mounted on traffic signal poles is 5' - 3'' (+). 5. Offset distance shall be consistent with existing signs or consistent throughout length of project. 6. The (+) tolerance for mounting 7. Folding signs shall be mounted at a height of 5'-3" (\pm) or as directd by the Engineer.

)	
	TYPICAL INSTALLATION
	OF PERMANENT TYPE II
	SIGNS ON SINGLE POSTS
	WISCONSIN DEPT OF TRANSPORTATION
	APPROVED Matthew & Rauch For state Traffic Engineer
	DATE <u>5/13/202</u> 0 PLATE NO. <u>A4-3.22</u>
	SHEET NO: E
PLOT SCALE : \$\$	WISDOT/CADDS SHEET 42





PROJECT NO:	HWY:	COUNTY:		
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN		PLOT DATE : 27-JAN-2014 09	:48 PLOT BY : mscsja	PLOT NAME :

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

SHEET NO:

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

Ε



FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A44.DGN

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GENERAL NOTES

- 1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
- 2. See tables below for required number of posts.
- 3.For expressways and freeways, mounting height is $7'-3''(\pm)$ or $6'-3''(\pm)$ depending upon existence of sub-sign.
- 4. The (±) tolerance for mounting height is 3 inches.
- 5. J-Assemblies are considered to be one sign for mounting height.
- 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 7. Folding signs shall be mounted at a height of 5'-3" (\pm) or as directed by the engineer.
- 8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3'' (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±).

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

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

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

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

PLOT SCALE : 108.188297:1.000000

WISDOT/CADDS SHEET 42



3 fasteners.

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

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

MACHINE BOLTS - 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)

ATTACHMENT OF SIGNS TO POSTS
WISCONSIN DEPT OF TRANSPORTATION
APPROVED Matthew R Rauch
<i>+or</i> State Traffic Engineer
DATE <u>4/1/202</u> 0 plate no. <u>44-8.9</u>
SHEET NO: E





FILE NAME : C:\Users\Projects\tr_stdplate\A411.DGN

GENERAL NOTES

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

	4	Х	6	WOO	DF	POST	
		MOD	IF	FICA	ΤI	ONS	
	WISC	onsin l	DEF	PT OF T	RANS	PORT AT IO	N
	APPROVE	D		nester .	Γź	Spang	
			tor	State Tr	affic E	ngineer	
	DATE 3	/27/9	<u>17</u>	PLA	TE N	D. <u>44-11</u>	2
				SHEET	N0:		E
OT SCALE	E:6.20 7 33	8:1.0000	000	WISD	от/с	ADDS SHE	ET 42



NOTES

- 1. All Signs Type II -WIS DOT Standard and STRUCTURE CON
- 2. Color:
 - Background YEL Arrow & Border
 - Stop Symbol WHI





SIZE	Α	В	С	D	E	F	G	н	I	J	к	L	м	N	0	Р	0	R	S	Т	U	v	W	X	Y	Ι
1	30		1 3/8	1/2	5%	6 1/4	11 1/4	2 1/8	15 3⁄4	1/2	1/2	16	8	1 1/4	5											I
2S	36		1 5/8	5⁄8	3⁄4	7 1/2	13 1/2	3 1/2	19	5⁄8	5⁄8	19 1⁄4	9 ¾	1 5/8	6											
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3	36		1 5/8	5⁄8	3⁄4	7 1/2	13 1/2	3 1/2	19	5⁄8	5⁄8	19 1⁄4	9 3⁄4	1 5/8	6											I
4	48		2 1/4	3⁄4	1	10	17 7/8	4 1/2	25 <mark>1⁄8</mark>	∛₄	7∕8	25 5/8	13	2	8											Ī
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PRO	JECT	NO:																								
FILE N	AME : C:	\Users\F	PROJECTS\+	r_stdpla	.te\₩31.D	GN										PLOT DA	TE : 07-	JUN-2010	12:59	PLO	T BY : d.	itjph				

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Type F Reflective - reference Specification for HIGHWAY NSTRUCTION latest edition.	
LLOW - BLACK TE BORDER ON RED BACKGROUND	
7	
G	
Y	7
Z Areo	
6.25 STANDARD SIGN	
9.0 W3-1	
9.0 WISCONSIN DEPT OF TRANSPORTATION	-1
9.0 APPROVED M HL D D I	1
16.0 / Latter & Kauch	
16.0 DATE 6/7/10 PLATE NO. W3-1.12	
SHEET NO:	
l l	_



FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W552.DGN

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PLOT DATE : 29-MAY-2012 13:03

PLOT NAME :

NOTES

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

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

Z	Area sq. ft.	STANDARD SIGN
		W5-52L & W5-52R
	3.0	
	3.0	WISCONSIN DEPT OF TRANSPORTATION
	6.75	APPROVED Matthew & Rauch
		for State Traffic Engineer
		DATE 5/29/12 PLATE NO. W5-52.9
		SHEET NO: E
	PLOT	SCALE : 4.961899:1.000000 WISDOT/CADDS SHEET 42



STRUCTURE IS D SURFACE OF 20	PESIGNED FOR FUTURE WEARING POUNDS PER SQUARE FOOT.	
LIVE LOAD:	۵	2.11
DESIGN L	DADING	— HL - 93
INVENTO OPERATIN		
WISCONS	IN STANDARD PERMIT VEHICLE (WIS-SPV)	- 250 KIPS
MATERIAL PROP	PERTIES:	
CONCRET	TE MASONRY	
SLA	.В	
ALL		
(INCLUDE	S STAINI ESS STEEL REINFORCEMENT)	Ty = 60,000 PSI
PRESTRES	SED GIRDER	
COI		— f'c = 8,000 PSI
51K 1/1 T	TIMATE TENSILE STRENGTH OF	
		13 270,000131
HYDRAU	LIC DATA	
100 YEAR FREQU	JENCY	
Q ₁₀₀		- 1570 C.F.S.
VEL.	·····	-7.6 F.P.S.
HW100		- EL. 1534.56
DRAINAG	E AREA	- 207 SQ. FT. - 22.6 SO. MI
SCOUR CF	RITICAL CODE	-5
2 YEAR FREQUE	NCY	
Q ₂ TOTAL		— 480 C.F.S.
VEL	· · · · · · · · · · · · · · · · · · ·	
		- EL. 1531.07
TRAFFIC	DATA	
AADT (20)	22)	— 366
DESIGN SE	42)	— 404
DESIGN	LED	
FOUNDAT ABUTMENTS TO REQUIRED DRIVI GATES DYNAMIC ESTIMATED LENC	TION DATA BE SUPPORTED ON PILING CIP CONCRETE 10 3/4 x NG RESISTANCE OF 150 TONS* PER PILE AS DETERN CFORMULA. PILE POINTS ARE REQUIRED. GTH 65'-0" NORTH ABUTMENT GTH 35'-0" SOUTH ABUTMENT	— 55 MPH 0.50-INCH DRIVEN TO A AINED BY THE MODIFIED
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0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	BORING LOCATION 1 / STA. 9+70.00 / OFF. 10 PHALT/CONCRETE PAVEMENT AND & GRAVEL (BASE COURSE) ND W/SOME GRAVEL, COBBLES (FILL, LOOSE) LEAN CLAY (FILL, LOOSE)	<u>PL</u> <u>'EL. 1540.9'</u> <u>J.00' LT.</u>	BORING LOCATION 2 / EL. STA. 10+30. 0 / OFF. 10.00 PROPOSED © GROUND	1541.6' 0' RT.	NCRETE PAVEMENT WEL (BASE COURSE) W/SOME GRAVEL (FILL, MEDIUM-DENSE) ME SILT & GRAVEL (FILL, MEDIUM-DENSE) ITTLE GRAVEL, COBBLES
0 0 0 0 0 0 0 0 0 0 0 0 0 0	BORING LOCATION 1/ STA. 9+70.00 / OFF. 10 PHALT/CONCRETE PAVEMENT AND & GRAVEL (BASE COURSE) UND W/SOME GRAVEL, COBBLES (FILL, LOOSE) LEAN CLAY (FILL, LOOSE) EAN CLAY W/COBBLES BLE FILL) NE SAND W/SOME GRAVEL (DENSE)	<u>PL</u> <u>'EL. 1540.9'</u> <u>J.OO' LT.</u>	BORING LOCATION 2 / EL. STA. 10+30. 0 / OFF. 10.00 PROPOSED & GROUND	. <u>1541.6'</u> 0'RT.	NCRETE PAVEMENT VVEL (BASE COURSE) V/SOME GRAVEL (FILL, MEDIUM-DENSE) ME SILT & GRAVEL (FILL, MEDIUM-DENSE) ITTLE GRAVEL (COBBLES SNSE) V/LITTLE GRAVEL
30 70 50 50 50 50 50 50 50 50 50 5	BORING LOCATION 1 / STA. 9+70.00 / OFF. 10 PHALT/CONCRETE PAVEMENT AND & GRAVEL (BASE COURSE) INE W/SOME GRAVEL, COBBLES (FILL, LOOSE) IEAN CLAY (FILL, LOOSE) NE SAND W/WOOD PIECES (FILL, LOOSE) EAN CLAY (VCOBBLES BLE FILL) NE SAND W/SOME GRAVEL (DENSE) VD W/LITTLE SILT M-DENSE TO DENSE)	<u>PL</u> <u>'EL. 1540.9'</u> <u>D.00' LT.</u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u>	BORING LOCATION 2 / EL. STA. 10+30. 0 / OFF. 10.00 PROPOSEI © GROUNI	1541.6' 0'RT. → 4.5" ASPHALT/COI → 24 → 24 → 6.75" SAND & GRA → 10 → 10 ↓ 12 ↓ 6.75" SAND & GRA → 11 ↓ 1527.6'± ↓ 17 ↓ 1527.6'± ↓ 17 ↓ 1527.6'± ↓ 17 ↓ 1527.6'± ↓ 17 ↓ 1577.6'± ↓ 17 ↓ 1577.6'± ↓ 17 ↓ 1577.6'± ↓ 17 ↓ 1577.6'± ↓	NCRETE PAVEMENT AVEL (BASE COURSE) N/SOME GRAVEL (FILL, MEDIUM-DENSE) ATTLE GRAVEL, COBBLES ENSE) N/LITTLE GRAVEL ME SILT, LITTLE GRAVEL, COBBLES TO VERY DENSE)
$ \begin{array}{c} 30 \\ 70 \\ 30 \\ 30 \\ 30 \\ 50 \\ 40 \\ 50 \\ 50 \\ 50 \\ 50 \\ 50 \\ 51 \\ 51 \\ 51 \\ 51 \\ 51 \\ 51 \\ 51 \\ 51$	BORING LOCATION 1/ STA. 9+70.00 / OFF. 10 PHALT/CONCRETE PAVEMENT AND & GRAVEL (BASE COURSE) ND W/SOME GRAVEL, COBBLES (FILL, LOOSE) LEAN CLAY (FILL, LOOSE) NE SAND W/WOOD PIECES (FILL, LOOSE) EAN CLAY W/COBBLES BLE FILL) NE SAND W/SOME GRAVEL (DENSE) ND W/LITTLE SILT M-DENSE TO DENSE) NE SAND ENSE)	/ EL. 1540.9' 	AN BORING LOCATION 2 / EL. STA. 10+30. 0 / OFF. 10.00 PROPOSEI & GROUNI	1541.6' 0' RT.	EXIST Q. GR NCRETE PAVEMENT AVEL (BASE COURSE) W/SOME GRAVEL (FILL, MEDIUM-DENSE) ME SILT & GRAVEL (FILL, MEDIUM-DENSE) ITTLE GRAVEL, COBBLES ENSE) W/LITTLE GRAVEL TO VERY DENSE) LE SILT, LITTLE GRAVEL TO DENSE)
$ \begin{array}{c} 30 \\ 30 \\ 30 \\ 30 \\ 30 \\ 30 \\ 30 \\ 30 \\$	BORING LOCATION 1 / STA. 9+70.00 / OFF. 10 PHALT/CONCRETE PAVEMENT AND & GRAVEL (BASE COURSE) ND W/SOME GRAVEL, COBBLES (FILL, LOOSE) LEAN CLAY (FILL, LOOSE) EAN CLAY (FILL, LOOSE) EAN CLAY W/COBBLES BLE FILL) NE SAND W/SOME GRAVEL (DENSE) VD W/LITTLE SILT M-DENSE TO DENSE) NE SAND iENSE) NE SAND EAND W/SOME GRAVEL ENSE)	PL / EL. 1540.9' 2.00' LT. 	AN BORING LOCATION 2 / EL. STA. 10+30. 0 / OFF. 10.00 PROPOSED © GROUNI	1541.6' 0' RT.	E SILT, SOME GRAVEL E SILT, SOME GRAVEL
$ \begin{array}{c} 30 \\ 70 \\ 50 \\ 50 \\ 50 \\ 50 \\ 50 \\ 50 \\ 50 \\ 5$	BORING LOCATION 1 / STA. 9+70.00 / OFF. 1(PHALT/CONCRETE PAVEMENT AND & GRAVEL (BASE COURSE) AND & GRAVEL (BASE COURSE) AND W/SOME GRAVEL (COBBLES (FILL, LOOSE) LEAN CLAY (FILL, LOOSE) NE SAND W/SOME GRAVEL (DENSE) NE SAND W/SOME GRAVEL (DENSE) NE SAND W/SOME GRAVEL (DENSE) NE SAND W/SOME GRAVEL (ENSE) NE SAND W/SOME GRAVEL (ENSE) NE SAND W/SOME GRAVEL (ENSE)	<u>Р</u> / EL. 1540.9' Э.00' LT.	AN BORING LOCATION 2 / EL. STA. 10+30. 0 / OFF. 10.00 PROPOSEI © GROUNI	1541.6' 0' RT. 24 24 20 21 20 21 20 21 20 21 20 21 20 20 20 20 20 20 20 20 20 20 21 11 20 12 5 11 21 21 22 23 24 25 26 37 47 48 17 48 17 48 17 48 17 43 45 17 5 17 43 17 5	EXIST Q GR NCRETE PAVEMENT AVEL (BASE COURSE) W/SOME GRAVEL (FILL, MEDIUM-DENSE) ME SILT & GRAVEL (FILL, MEDIUM-DENSE) ITTLE GRAVEL, COBBLES ENSE) W/LITTLE GRAVEL ME SILT, LITTLE GRAVEL TO VERY DENSE) LE SILT, LITTLE GRAVEL TO DENSE) E SILT, SOME GRAVEL
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	BORING LOCATION 1 / STA. 9+70.00 / OFF. 1(PHALT/CONCRETE PAVEMENT AND & GRAVEL (BASE COURSE) INE SAND W/SOME GRAVEL, COBBLES (FILL, LOOSE) LEAN CLAY (FILL, LOOSE) NE SAND W/WOOD PIECES (FILL, LOOSE) EAN CLAY (FILL, LOOSE) NE SAND W/SOME GRAVEL (DENSE) ND W/LITTLE SILT M-DENSE TO DENSE) NE SAND VSOME GRAVEL (ENSE) NE SAND W/SOME GRAVEL (ENSE) NE SAND W/SOME GRAVEL (ENSE)	<u>Р</u> / <u>EL. 1540.9'</u> 2.00' LT.	BORING LOCATION 2 / EL. STA. 10+30. 0 / OFF. 10.00 PROPOSED © GROUNI PROPOSED © GROUNI PILING CIP CONCRETE – 10½" x 0.50-INCH EST. LENGTH 65'-0"	1541.6' 0'RT. → 24 → 5'ILTY FINE SAND & GRA → SILTY FINE SAND W/SOM → CLAYEY SAND	EXIST Q.GR AVEL (BASE COURSE) N/SOME GRAVEL (FILL, MEDIUM-DENSE) ATTLE GRAVEL (FILL, MEDIUM-DENSE) ITTLE GRAVEL, COBBLES ENSE) W/LITTLE GRAVEL ME SILT, LITTLE GRAVEL, COBBLES TO VERY DENSE) LE SILT, LITTLE GRAVEL TO DENSE) E SILT, SOME GRAVEL







BILL OF BARS

1870#	COA	ΓED	2150#	UNC	DATED				
BAR MARK	OR	NO. REQ'D	LENGTH	AN AN	BAR SERIES	LOCAT	FION		
A401		7	28-0	Х		BODY - ONE PER PILE			
A402		14	2-3	V		BODY - TWO PER PILE			
A503		42	15-0 9-1	X X		BODY - STIRRUPS BODY - STIRRUPS @ AI	BUT, ENDS		
A505		2	7-3	X		BODY - STIRRUPS @ AI	BUT. ENDS		
A506		2	5-5	Х		BODY - STIRRUPS @ AI	BUT. ENDS		
A407		12	3-9	Х		BODY - VERT. TOP - BT	WN. GIRDERS	~	
A408		10	5-3 36-10			BODY - HORIZ, TOP - B BODY - HORIZ,	TWN. GIRDERS	<u>></u>	
A810		7	36-10			BODY - HORIZ. B.F.			
A511	Х	8	15-8	Х		WINGS 1 & 2 - STIRRU	PS		
A512	X	2	10-10	X		WINGS 1 & 2 - STIRRU	PS @ ABUT EN	ID	
A515	X	8	9-10	^		WING 1 - BASE HORIZO	ONTAL B.F.		
A615	Х	8	5-6			WING 2 - BASE HORIZO	ONTAL B.F.		
A516	Х	6	8-0			WING 1 - BASE HORIZO	ONTAL F.F.		
A517	X	6	12-7	v		WING 2 - BASE HORIZO	ONTAL F.F.		
A518 A519	X	5	12-4	X		WING 2 - VERTICAL			
A520	Х	9	11-0	Х		WING 1 - VERTICAL			
A521	Х	9	11-0	Х		WING 2 - VERTICAL			
A422	X	9	11-8			WING 1 - HORIZONTAL	L F.F. & B.F. TC	DP DD	
A423	X	9	9-8 7-9			WING 2 - HORIZONTAL	L F.F. & B.F. IC	7P	
A425	Х	6	7-9			WING 2 - HORIZONTAI	L F.F. & B.F.		
A626	Х	2	11-8			WING 1 - HORIZONTAI	LTOP		
A627	X	2	9-8			WING 2 - HORIZONTAL	LTOP		
A628	X	1	6-2			WING 1 - HORIZONTAL	BASE		
NOTE:	BAR	DIMEN	ISIONS A	RE OL	JT TO C	OUT OF BAR. THE FIRST	DIGIT OF A		
	THR	EE-DIG	IT BAR M	ARK (F BAR	DR THE SIZE	FIRST TWO DIGITS OF	A FOUR-DIGIT	BAR	
A512 <u>A512</u> <u>A512</u> <u>A512</u> <u>ID</u> INDICATES WING NUMBER <u>A01</u> 18" RUBBERIZED MEMBRANE WATERPROOFING (R.M.W). SEAL ALL HORIZONTAL & VERTICAL JOINTS ON BACK FACE. <u>A03</u> SEAL ALL EXPOSED HORIZONTAL & VERTICAL SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. <u>(1)" DEEP & HOLD 1/3" FILLER WITH SEALER.</u>									
A04 PIPE UNDERDRAIN WRAPPED 6-INCH. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN. RODENT SHIELD TO BE INCLUDED IN BID PRICE O "PIPE UNDERDRAIN WRAPPED 6-INCH". A07 OPTIONAL KEYED CONSTRUCTION JOINT FORMEI BY BEVELED 2" X 6". (18" R.M.W. @ B.F. & 3/4" V-GROOVE @ F.F. IF JOINT IS USED).						IN. E OF MED 4"	8		
						DEVICION		DV	
11"	-		NU.	JAIE		REVISION		БĬ	
		 1			DEP	STATE OF WISCONS	IN ORTATION		
t							10		
-1-2			S	IR	UCT	URE B-35-01	18		
(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						DRAWN BY	PLANS CK'D.	TLP	
1	_	I					SHEFT 5	OF 13	Ţ.
Δ,	521				SC	DUIH	5	5. 15	= 1
<u>/ \\</u>			AE	BUT	ME	NT DETAILS			SCALE





BILL OF BARS

1880#	COAT	ΓED	2150#	UNC	DATED				
BAR MARK	SF	NO. REQ'D	LENGTH	SF.	BAR SERIES	LOCAT	ΓION		
B401		7	28-0	Х		BODY - ONE PER PILE			
B402		14	2-3	v		BODY - TWO PER PILE			
B503		42	9-1	X		BODY - STIRRUPS @ AE	BUT. ENDS		
B505		2	7-3	Х		BODY - STIRRUPS @ AB	BUT. ENDS		
B506		2	5-5	X		BODY - STIRRUPS @ AE	BUT. ENDS		
B407 B408		6	5-3	^		BODY - HORIZ. TOP - B	TWN. GIRDER	s	
B609		10	36-10			BODY - HORIZ.			
B810	v	7	36-10	v		BODY - HORIZ, B.F.	DC		
B511 B512	X	2	10-10	X		WINGS 3 & 4 - STIRRU	PS @ ABUT EN	ID	
B513	Х	2	7-8	Х		WINGS 3 & 4 - STIRRUI	PS @ ABUT EN	ID	
B614	X	8	9-10			WING 4 BASE HORIZO	ONTAL B.F.		
B516	X	6	8-0			WING 3 - BASE HORIZO	ONTAL B.F.		
B517	Х	6	12-7			WING 4 - BASE HORIZO	ONTAL F.F.		
B518	X	8	12-4	X		WING 3 - VERTICAL			
B519 B520	X	9	12-4	X		WING 3 - VERTICAL			
B521	Х	9	11-4	Х		WING 4 - VERTICAL			
B422	X	9	11-8			WING 3 - HORIZONTAL	F.F. & B.F. TO	DP DP	
B423 B424	X	6	9-8 7-9			WING 4 - HORIZONTAL	_ F.F. & B.F. TC _ F.F. & B.F.	78	
B425	Х	6	7-9			WING 4 - HORIZONTAL	F.F. & B.F.		
B626	Х	2	11-8			WING 3 - HORIZONTAL	TOP		
B627 B628	X	2	9-8 7-2			WING 4 - HORIZONTAL	TOP BASE		
B629	X	1	6-2			WING 4 - HORIZONTAL	BASE		
NOTE:	BAR		ISIONS A		JT TO C	OUT OF BAR. THE FIRST	DIGIT OF A	DAD	
	MAF	RKSIGN	IFIES THE	BAR	SIZE.			DAIN	
_	3'-4	^{⊥"}							
4'-7"			<u>LEG</u>	EN	I <u>D</u>				
<u></u> <u>B</u>	512) IN	NDICAT 8" RUB	ES WING NUMBER BERIZED MEMBRANE W	VATERPROOFI	NG	
			(A03	(F Ju S	R.M.W) DINTS (EAL AL	I. SEAL ALL HORIZONTA ON BACK FACE. L EXPOSED HORIZONTA	L & VERTICAL		
<u>11"</u>		-		5 N (1	ORFAC ON-BIT L" DEEF	PEROPALIN WRAPPED 6	SURFACE OF C	ONC.)	
5'-10"			A04	0 R R "I	.5% M ODENT ODENT PIPE UI	IN. TO SUITABLE DRAIN SHIELD AT ENDS OF PII SHIELD TO BE INCLUDE NDERDRAIN WRAPPED (AGE. ATTACH PE UNDERDRA ED IN BID PRIC 5-INCH".	IN. E OF	
Bt Bt	518 519		(A07		PTION Y BEVE -GROC	AL KEYED CONSTRUCTIO LED 2" X 6". (18" R.M.W IVE @ F.F. IF JOINT IS US	DN JOINT FOR /. @ B.F. & 3/4 SED).	MED 4"	8
11"			NO. I	DATE		REVISION		BY	
				_	_	STATE OF WISCONS	IN		
1	- r]			DEP	ARTMENT OF TRANSPO	ORTATION		
-4 -			s	TR	UCT	URE B-35-01	18		
'n						DRAWN NJT	PLANS	TLP	
	_					RI .O.	CK'D.	05.45	_
B	521				NC	ORTH	Sheel 7	UF 13	E = 1:1
			AE	SUT	ME	NFDETAILS			SCALE





















NOTES

ALL DIAPHRAGM MATERIAL NOT EMBEDDED IN THE CONCRETE GIRDER SHALL BE PAID FOR AT THE UNIT PRICE BID FOR "STEEL DIAPHRAGMS B-35-118, EACH.

EACH DIAPHRAGM BETWEEN GIRDERS SHALL CONSTITUTE ONE UNIT.

ALL DIAPHRAGM STRUCTURAL STEEL SHALL BE ASTM A709 GRADE 36. ALL DIAPHRAGM MATERIAL INCLUDING BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED AFTER FABRICATION.

STEEL DIAPHRAGM TO CONCRETE WEB CONNECTION SHALL BE SNUG-TIGHT PLUS 1/4 TURN, UNLESS NOTED OTHERWISE. HIGH STRENGTH BOLTS FOR WEB CONNECTION SHALL MEET THE REQUIREMENTS FOR ASTM A325 OR ASTM A449.













<u>S607</u>



BILL OF BARS

20760#	COAT	ΓED				
bar Mark	JOA	NO. REQ'D	LENGTH	M2	BAR SERIES	LOCATION
S501	Х	50	6-7	Х		ABUTMENT DIAPHRAGM VERTICAL
S402	Х	30	3-7	Х		ABUTMENT DIAPHRAGM VERTICAL
S603	Х	24	5-7			ABUTMENT DIAPHRAGM HORIZONTAL
S504	Х	42	14-0	Х		ABUTMENT DIAPHRAGM VERTICAL
S505	Х	16	11-2	Х		ABUTMENT DIAPHRAGM VERTICAL
S406	Х	8	3-0			ABUTMENT DIAPHRAGM VERTICAL END
S607	Х	8	7-6	Х		ABUTMENT DIAPHRAGM HORIZ. END
S608	Х	8	0-11			ABUTMENT DIAPHRAGM HORIZ. END
S509	Х	64	15-3		X	DECK TOP TRANSVERSE
S510	Х	95	28-2			DECK TOP TRANSVERSE
S511	Х	64	15-5		X	DECK BOTTOM TRANSVERSE
S512	Х	94	28-2			DECK BOTTOM TRANSVERSE
S413	Х	86	43-4			DECK LONGITUDINAL TOP
S414	Х	88	43-4			DECK LONGITUDINAL BOTTOM
S515	Х	264	4-5	Х		PARAPET VERTICAL
S516	Х	264	6-8	Х		PARAPET VERTICAL
S517	Х	64	44-3			PARAPET HORIZONTAL
S618	Х	8	36-9			ABUTMENT DIAPHRAGM HORIZONTAL
S419	Х	12	5-3			ABUTMENT DIAPHRAGM HORIZONTAL
S520	Х	16	6-0			ABUTMENT DIAPHRAGM (2) PER GIRDER END

NOTE: BAR DIMENSIONS ARE OUT TO OUT OF BAR. THE FIRST DIGIT OF A THREE-DIGIT BAR MARK OR THE FIRST TWO DIGITS OF A FOUR-DIGIT BAR MARK SIGNIFIES THE BAR SIZE.

BAR SERIES TABLE

BUNDLE AND TAG EACH SERIES SEPARATELY							
bar Mark	NO. REQUIRED	LENGTH					
S509	2 SERIES OF 32	2-4 TO 28-2					
S511	2 SERIES OF 32	2-8 TO 28-2					

NO.	DATE	DATE REVISION BY						
	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION							
	STRUCTURE B-35-0118							
			DRAWN NJT BY	P	LANS K'D.	TLP		
s	SUPE	RSTRUC	SHEET	12	OF 13	= 1:1		
			SCALE =					
							•	



NAME PLATE. FOR LOCATION SEE "GENERAL PLAN" SHT. STATE PROJECT NUMBER

9487-00-70

BILL OF BARS

FOR ABUTMENT PAPAPETS , WEIGHT INCLUDED IN SUPERSTRUCTURE TABLE

OR THRIE I" SHT.	
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ENGT LOCATION MARK **ARI I** ARU SERIE PARAPET VERTICAL R501 Х Х 5-10 R502 х 7 6-8 X PARAPET VERTICAL 7 PARAPET VERTICAL R503 22 22 3-0 R504 X 34 34 5-7 Х PARAPET VERTICAL R505 X 10 10 6-5 PARAPET VERTICAL X R506 PARAPET VERTICAL 6-6 Х 12 12 R507 X 1 1 11-6 X PARAPET HORIZONTAI PARAPET HORIZONTAL R508 Х 11-8 X PARAPET VERTICAL R509 X 12 12 5-5 X 11-8 PARAPET HORIZONTAI R510 2 9-7 PARAPET HORIZONTAL R511 х 1 1 х R512 X 5 5 9-8 X PARAPET HORIZONTAL R513 X 9-8 X PARAPET HORIZONTAL 1 1

BAR



BAR

NOTE: BAR DIMENSIONS ARE OUT TO OUT OF BAR. THE FIRST DIGIT OF A THREE-DIGIT BAR MARK OR THE FIRST TWO DIGITS OF A FOUR-DIGIT BAR MARK SIGNIFIES THE BAR SIZE.

LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTH.

BUNDLE AND TAG EACH SERIES SEPARATELY BAR NO. REQUIRED LENGTH MARK 4 SERIES OF 6 4-9 TO 6-1 R509 4½" R 41/2" R R502 R503 R501 R504 184° / 3½" R \2½" R 2½" R 183° <u>R505</u> R506 R509 CONST. JOINT - STRIKE OFF AS SHOWN R503 BARS MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. USE CARE TO PLACE R503 BARS CORRECTLY ALONG TRANSITION OF PARAPET. 8 STEEL BEFORE WING IS POURED. NO. DATE BY REVISION STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 8" STRUCTURE B-35-0118 RAWNNJT PLANS TLP SHEET 13 OF 13 1:1 SINGLE SLOPED PARAPET 42SS

BAR SERIES TABLE

DIVISION 1	- ALIPROF-CTH YY											
			AREA (SF)			INCREM	INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
STATION	REAL STATION	DISTANCE	CUT	SALVAGED/UNUSABLE	E 11 1	сит	SALVAGED/UNUSABLE	FILL	СИТ	EXPANDED FILL	MASS ORD	
			01	PAVEMENT MATERIAL	FILL		PAVEMENT MATERIAL		1.00	1.25		
						NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8	
07+77.706	777.71	0.00	7.18	0.00	0.54	0	0	0	0	0	0	
07+86.634	786.63	8.93	51.06	0.00	3.11	10	0	1	10	1	9	
08+00	800.00	13.36	18.50	0.00	2.47	17	0	1	27	3	25	
08+50	850.00	50.00	53.64	0.00	5.30	67	0	7	94	11	83	
09+00	900.00	50.00	40.71	9.20	3.15	87	9	8	181	21	151	
09+24.768	924.77	24.77	35.54	9.20	23.02	35	8	12	216	36	163	
09+33.6	933.60	8.83	16.60	9.20	10.83	9	3	6	225	44	161	
09+50	950.00	16.40	16.78	8.30	13.72	10	5	7	235	53	158	
09+57.403	957.40	7.40	16.85	4.60	6.43	5	2	3	240	56	157	
10+42.591	1042.59	85.19	29.77	4.60	0.00	0	0	0	240	56	157	
10+50	1050.00	7.41	30.31	8.30	0.00	8	2	0	248	56	163	
10+66.4	1066.40	16.40	29.87	9.20	0.00	18	5	0	266	56	176	
11+00	1100.00	33.60	52.79	9.20	2.31	51	11	1	317	58	215	
11+50	1150.00	50.00	18.41	0.00	8.10	66	9	10	383	70	259	
12+00	1200.00	50.00	18.52	0.00	4.82	34	0	12	417	85	278	
12+06.183	1206.18	6.18	7.85	0.00	3.29	3	0	1	420	86	280	
12+30.783	1230.78	24.60	7.84	0.00	0.00	7	0	1	427	88	286	

INUTES.	

(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

OR

OR

(5) AVAILABLE MATERIAL = CUT - SALVAGED/UNUSUABLE PAVEMENT MATERIAL

(13) EXPANDED FILL FACTOR = 1.25

DEPENDING ON SELECTIONS: OR

EXPANDED FILL = (UNEXPANDED FILL - EXPANDED ROCK - REDUCED EBS) * FILL FACTOR

EXPANDED FILL = (UNEXPANDED FILL - EXPANDED ROCK - REDUCED MARSH) * FILL FACTOR

EXPANDED FILL = (UNEXPANDED FILL - EXPANDED ROCK) * 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.

EXPANDED FILL = (UNEXPANDED FILL - EXPANDED ROCK - REDUCED MARSH - REDUCED EBS) * FILL FACTOR

PROJECT N	IO: 9487-00-70	HWY: CTH YY	COUNTY: LINCOLN	EARTHWORK: CTH YY	
FILE NAME : I	I:\CLIENTS-MENO\L\L6192 LINCOLN COUNTY\001 9487-00-00 STH 86-LOS	T AVENUE NORTH FORK SPIRIT RIVER BRIDGE CTH YY LINCOLN COUNTY\948	870000\SHEETSPLAN\090101-EW.DWG PLOT DATE : 7/14/2021 1:19 PM	PLOT BY : NICK THOMPSON	PLOT NAME :



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Notes



Wisconsin Department of Transportation

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